CATALOGUE 2025

/ 3F Filippi



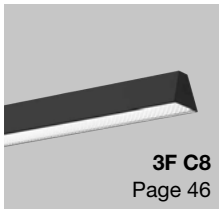
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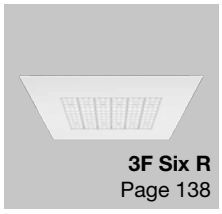

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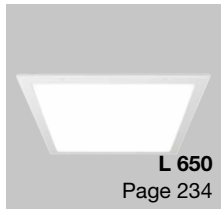

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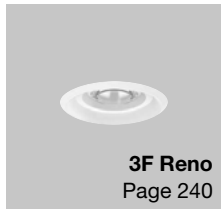

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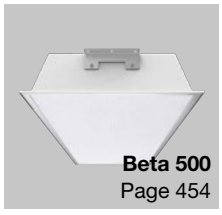

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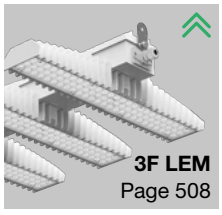

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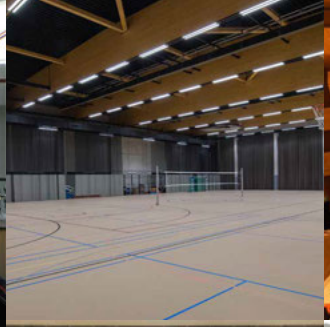
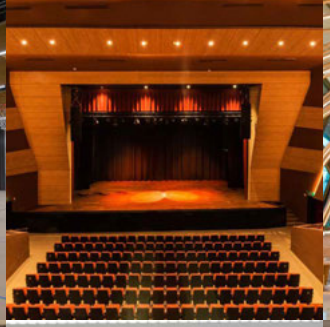
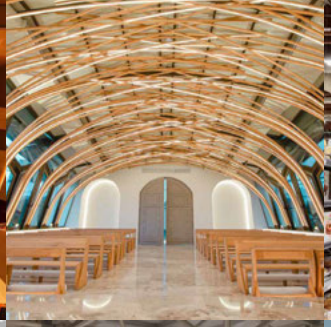
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The data listed in this Catalogue may be approximate: please visit our website at **www.3f-filippi.com** or contact our Sales network to check for any updates.
As 3F Filippi S.p.A. are constantly striving to improve our products, we reserve the right to modify the contents of this publication and the technical specifications of products contained herein without prior notice.

/ The Group

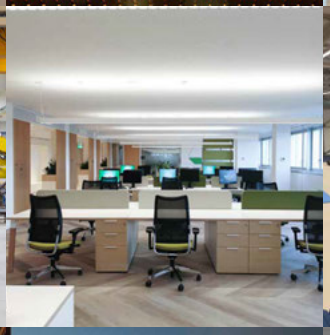
Three companies, one reality that shares common values, expressions of Made in Italy.

With extensive experience and the combination of their respective expertise in technical and architectural lighting the three brands together provide a complete portfolio of products that proudly bringMade in Italy to more than 50 countries worldwide.

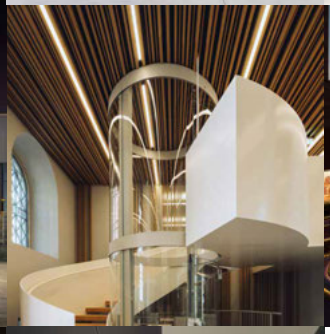
Today the Group can meet and satisfy any kind of design and project requirements. Our partners can choose from a huge selection of products and solutions; from high-tech and functional products from the 3F Filippi catalogue to indoor and outdoor architectural lighting fixtures designed by Targetti, right up to a wide range of LED lamps and fixtures from the Duralamp brand.



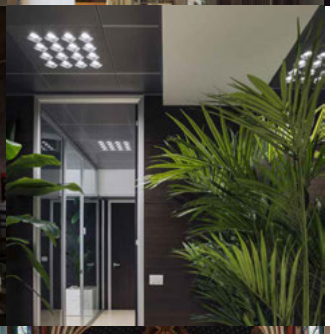
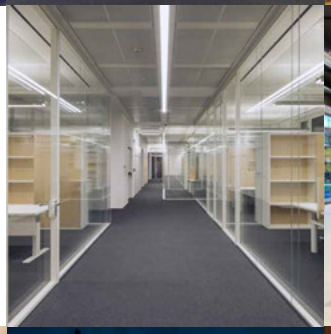
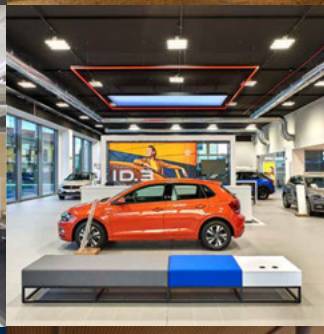


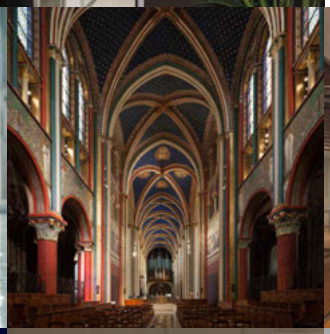
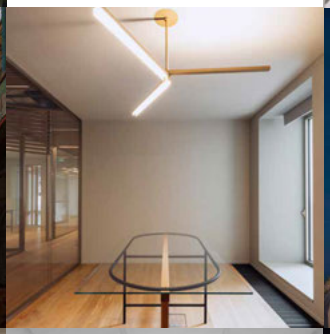


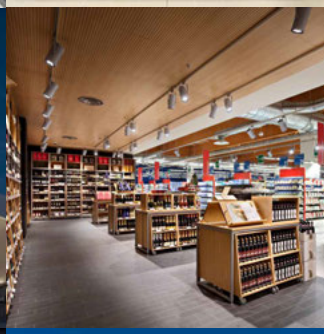




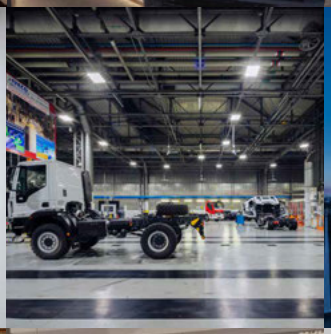
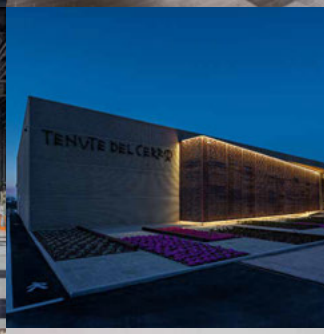


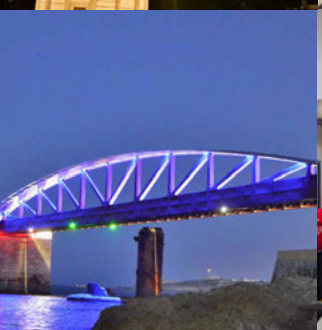
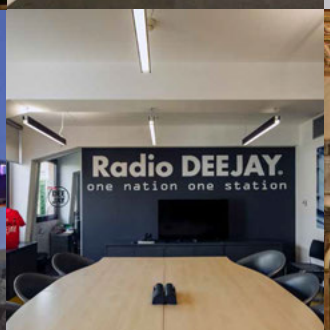

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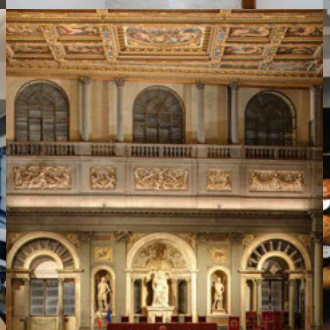




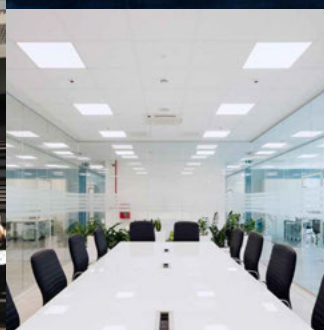









Protótipo
LEANFIS 300
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Prototi
LEANF
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/ 3F Filippi

3F Filippi, a Company that has shaped the history of lighting in Italy is now a reality at the service of professionals and designers looking for quality solutions.

The most important vallue: absolute transparency with the market. Ever since it was founded, our company has always offered fixtures that offer guaranteed performance, establishing itself as a reliable partner for the creation of any lighting project.

/ Our values

We want to contribute to spread and develop a new consumption model that is not based on a “disposable” economy but on products that can be updated over time.

Our products have always been built as platforms that can adapt to the customer’s needs and technological development, for solutions that are always more efficient.
To reach this goal, we focus on increasing the performance of the products and reducing the environmental impact of the manufacturing processes.

3F Filippi actively collaborates with **Lighting Europe** to develop increasingly advanced systems, in line with European and International standards.
It is also a **member of ASSIL** (Italian Association of Lighting Manufacturers), a partner and institutional **supporter of IES** (Illuminating Engineering Society of North America), **AIDI** (Italian Lighting Association), and **APIL** (Association of Lighting Professionals) with whom it shares the values of the Carta della Luce (Light Charter).

/ **RELIABILITY** first of all

Our commitment is to offer its customers the best technology available on the market. commitment is to offer its customers the best **technology available** on the market in terms of **technical performance, reduced energy consumption, and reliability.**

/ **SAFETY** at the maximum level

All 3F Filippi products are tested in-house in special laboratories in accordance with the current national CEI 34-21, European EN 60598-1 and international IEC 60598-1 standards, guaranteeing the **safety, quality and long life** of the devices.

/ 100% **SUSTAINABLE**

We have always been **environmentally** sensitive: each product is designed as a platform adaptable to our customers' needs, so that it can be reused, reconditioned, improved (upgraded) and recycled.

/ **READY** for any emergency

3F Filippiis one of the few companies in Europe to have the tools to certify its products according to the recent standards UNI EN 13032 and IES LM-79 which determines the requirements for the **emergency lighting** with or without interchangeable luminous sources.



/ Ecodesign and sustainability

We use photovoltaic panels that cover 30% of the energy needs, with the remaining 70% from certified renewable energy sources.

At 3F Filippi, we make products that are increasingly efficient and less impactful on the environment, with the aim of achieving the goal of reducing greenhouse gas emissions by 2030.

For this reason, for several years now we have undertaken various actions that focus particularly on the application of **Lean Production** - a production system that aims to minimise waste to the point of eliminating it - and through the use of **Life Cycle Assessment** - assessment of the life cycle of a product to achieve the highest possible energy efficiency and maximisation of its lifespan: we currently already reach 100,000 hours of operation, an important result that we intend to surpass in the coming years.

/ The laboratories

3F Filippi is one of the very few companies in Europe to own a Goniophotometer with a rotating mirror.

The use of this technology allows us **to guarantee quality, reliability and authenticity of the data reported**, through tests such as: **photometric measurements** (intensity, distribution, luminance), **colorimetric measurements** (light spectrum, colour temperature, colour rendering) and punctual **thermal measurements** on the luminaire's internal components.

3F Filippi's **Photometric Laboratory** and **Testing Laboratory**, obtained the **Customer Testing Facilities CTF Stage2 recognition from IMQ S.p.A.** capable of carrying out its activities under the supervision of one of Italy's major certification bodies, IMQ S.p.A.

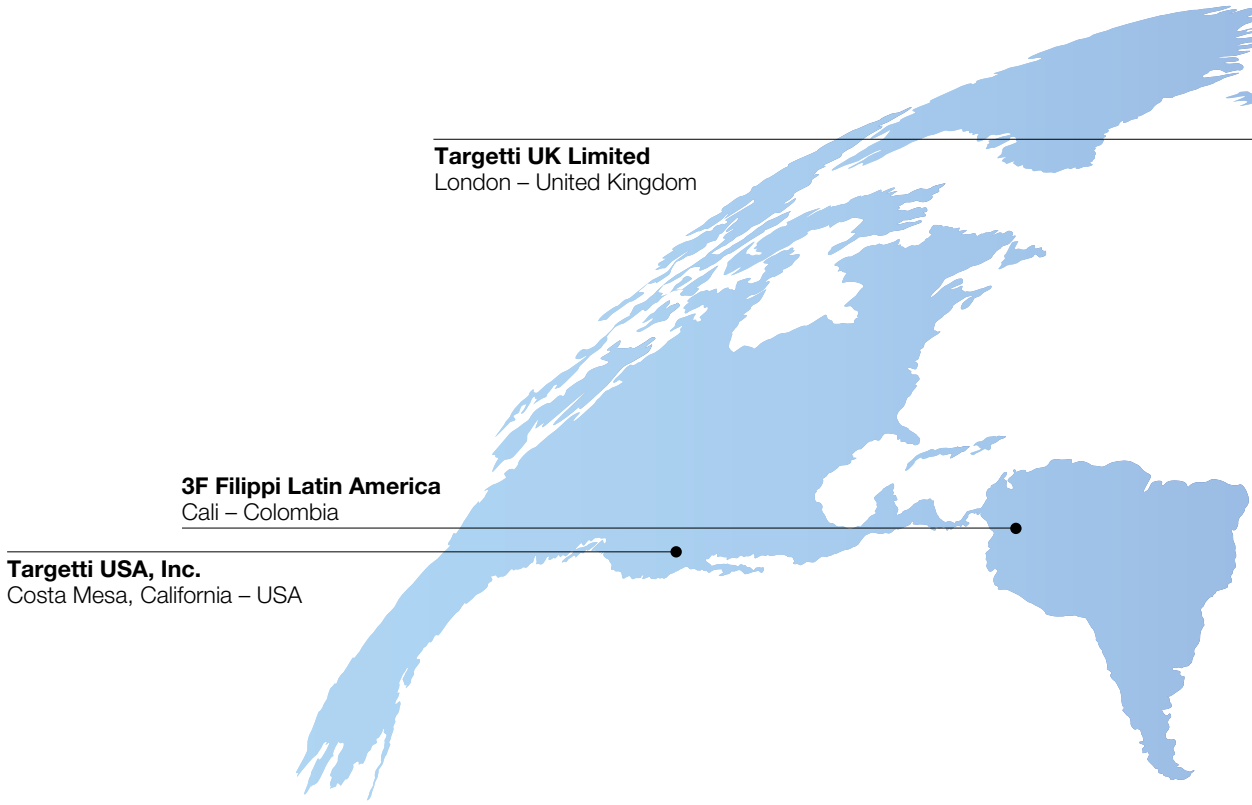
This makes it possible **to carry out tests valid for product certification independently**, guaranteeing the quality and durability of products to the benefit of the customer.

Within our laboratories, the following tests can be performed:

Temperature
Electromagnetic compatibility
UL Conformity: Rain and Sprinkler
EMC Compatibility: Burst and Surge
Liquid seal tests
Ball impact resistance (DIN 18032-3)
Dust seal
Resistance to salt spray
Impact Resistance

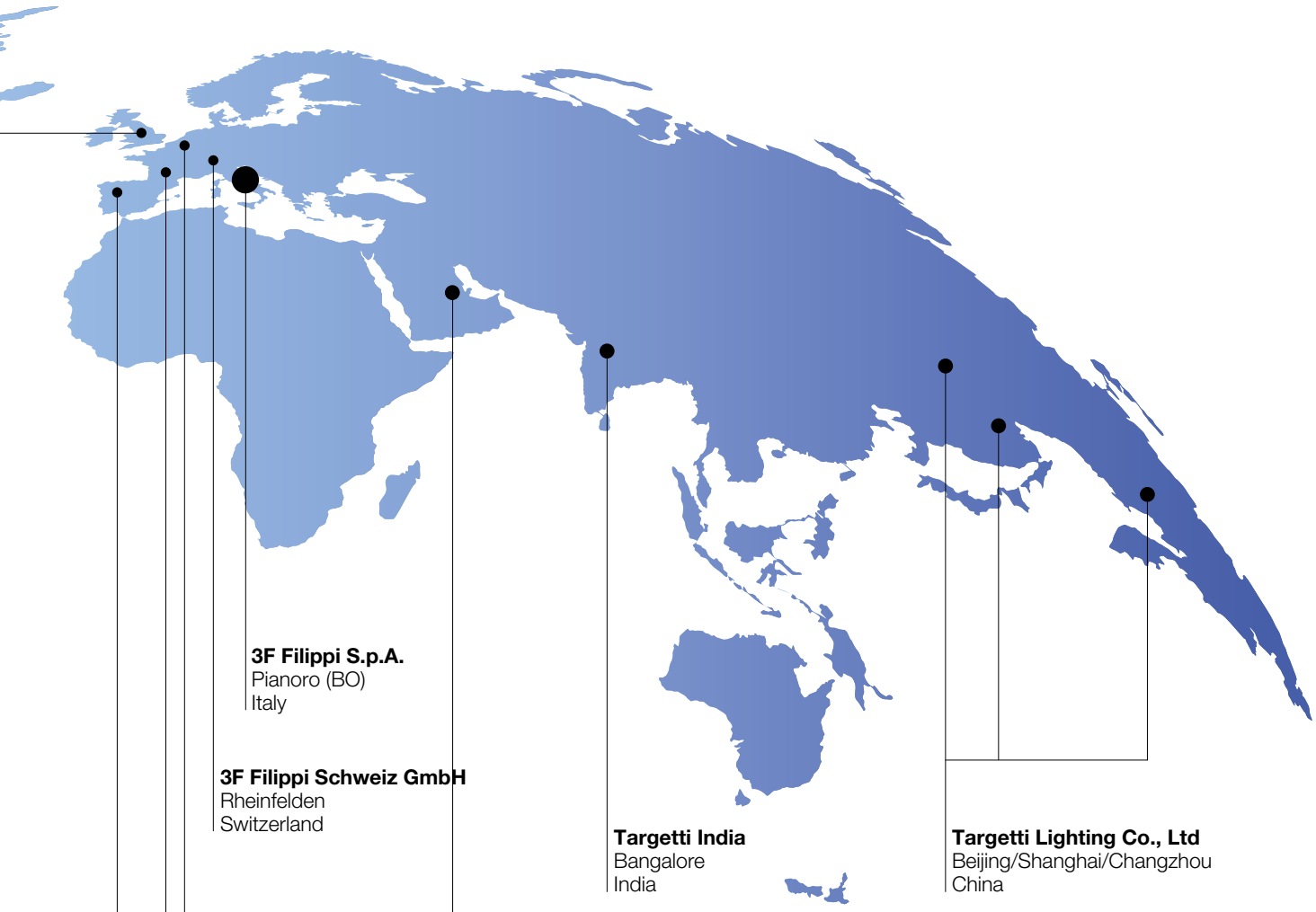


/ Connected. Everywhere.



The company works through a close-knit network of regional and foreign offices in the European, Latin American, Asian, and Oceanian markets.

The 3F Filippi | Targetti group, represents a cohesive reality that presents itself as a unique partner at the service of professionals and designers in search of quality solutions, providing them with the most advanced tools and the support of our Sales Offices present all over the world.



3F Filippi S.p.A.
Pianoro (BO)
Italy

3F Filippi Schweiz GmbH
Rheinfelden
Switzerland

3F Filippi GmbH
Munich
Germany

Targetti Sankey S.p.A.
(Dubai Branch)
Dubai - EAU

Targetti India
Bangalore
India

Targetti Lighting Co., Ltd
Beijing/Shanghai/Changzhou
China

3F Filippi | Targetti France S.a.S
Paris
France

3F Filippi | Targetti Spain S.A.U.
Barcelona
Spain

/ Photobiological safety

Among 3F Filippi’s top priorities there is the well-being of the people illuminated by our products: for this reason we use only the best sources with low health impact, paying the utmost attention to photobiological safety.

Unfortunately, some less scrupulous manufacturers use low-quality sources during prolonged exposure, emit radiation which is damaging to organs of the human body, such as the eyes and skin.

A number of **Photobiological Safety Risk Groups (IEC62471)** have now been defined for the amount of radiation emitted from all sources in the range of wavelengths from 200 nm to 3000 nm, providing a clear indication of the limits of maximum exposure for each group.

Risk classes:

RG0 (Risk Exempt)
The source does not cause any photo-biological risk. Requirement met by any lamp that does not cause a blue light (BL) retinal risk with an exposure time of up to 10,000 s (about 2.8 h).

RG1 (Low Risk)
The source does not cause risk due to normal operating limitations on exposure. Requirement met by any source that exceeds the limits of the Exempt Group but does not cause a blue light (BL) retinal risk with an exposure time of up to 100 s.

RG2 (Moderate Risk)
The source does not cause a risk due to an instinctive reaction when looking at very bright light sources (or due to a sensation of thermal discomfort.) Requirement met by any source that exceeds the limits of Risk 1 Group but does not cause a blue light (BL) retinal risk with an exposure time of up to 0.25 s (aversion response).

RG3 (High Risk)
The source can constitute a risk even due to momentary or brief exposure. Sources that exceed the limits of Risk Group 2 are included in Risk Group 3.

Note:
3F Filippi is committed to providing the most technologically advanced luminaires and always chooses the LED sources with the lowest photobiological risk group available on the market for its customers.
If customers are offered product solutions similar to those which 3F Filippi declares for a certain class (for example RG1 - low) but other manufacturers state as being of a lower class (e.g. RG0 – risk absent), they can protect themselves by requesting that those manufacturers provide the certificates proving that the sources actually meet this photobiological risk class.

RG0 (Risk Exempt)

The source does not cause any photo-biological risk. Requirement met by any lamp that does not cause a blue light (BL) retinal risk with an exposure time of up to **10,000 s** (about 2.8 h).

RG1 (Low Risk)

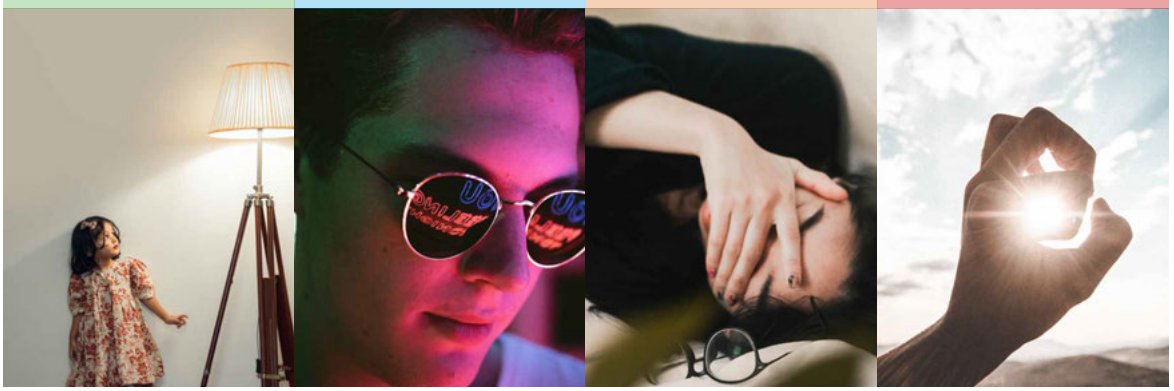
The source does not cause risk due to normal operating limitations on exposure. Requirement met by any source that exceeds the limits of the Exempt Group but does not cause a blue light (BL) retinal risk with an exposure time of up to **100 s**.

RG2 (Moderate Risk)

The source does not cause a risk due to an instinctive reaction when looking at very bright light sources (or due to a sensation of thermal discomfort.) Requirement met by any source that exceeds the limits of Risk 1 Group but does not cause a blue light (BL) retinal risk with an exposure time of up to **0.25 s** (aversion response).

RG3 (High Risk)

The source can constitute a risk even due to momentary or brief exposure (like looking directly at the sun).



The standard **EN 60598-1:2021** on indoor luminaires states in **paragraph 4.24.2**:
"For luminaires that use light sources from risk group RG1 (unlimited), in accordance with IEC/TR 62778, or which have been judged as being finished products ready for use, belonging to risk group RG1 (unlimited), the requirements concerning blue light retinal risk do not apply."
For luminaires that have an ETHR illuminance threshold, evaluated in accordance with IEC/TR 62778, additional requirements are applied for evaluating how far the product is from the threshold between RG2 and RG1. In such cases, although the luminaire cannot be considered to be dangerous, warnings and markings are used to alert the installer or user to the possible risks associated with direct and prolonged viewing of the source.

Currently, therefore, there is no regulation that declares the various photo-biological risk groups to be equivalent, or indeed that united them, rendering both exempt.
Exposure to RG1-group luminaires is not considered dangerous under ordinary conditions of use, due to the fact that periods of exposure of over 100 seconds are considered to be "unlikely", although not impossible, as this cannot be predicted in the design phase.
Risk group RG0, on the other hand, has a period of exposure greater than 2.8h and as such, it can be stated with greater confidence that a luminaire would not be viewed directly for this long.

The demand for RG0 light sources could be considered redundant, but it is not stated anywhere that it is prohibited to request the use of RG0 luminaires, or that these can be considered equivalent to those belonging to the RG1 risk category.
As explained above, **the RG0 risk group represents a cautionary, optimal class of light source.**

A company that exhibits extra caution with regard to the safety of its operators, and decides to install equipment belonging to the risk-exempt RG0 category, could therefore be seen to be excessively conservative, but cannot certainly be criticised for having requested compliance with a parameter that provides greater safety for all involved.

/ Instruments

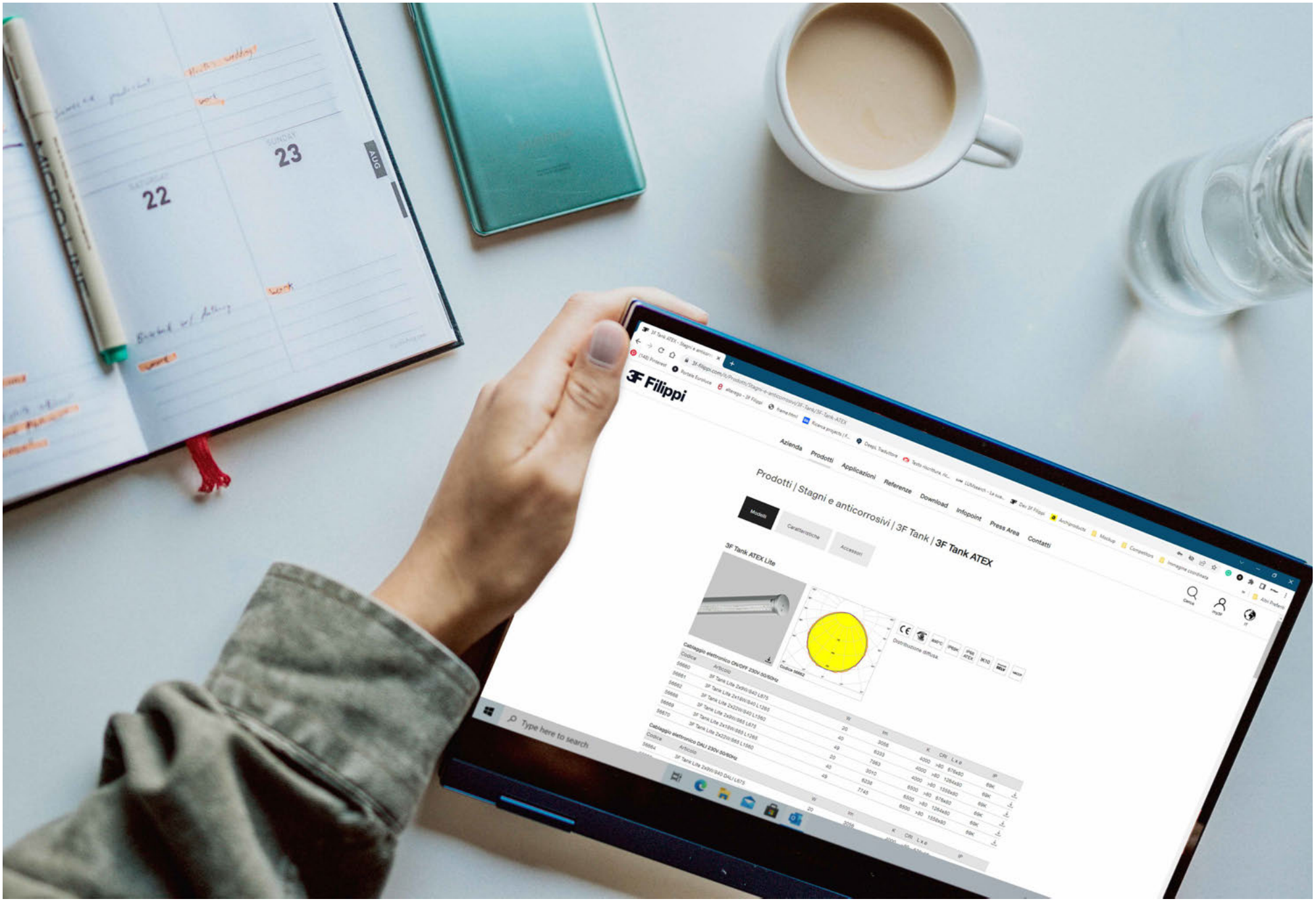
All the results we report are measurements made in full compliance with regulations. This way we provide lighting designers with absolutely real and reliable values.

The **3f-filippi.com** website has been designed to make the research process more straightforward.

We decided to structure the information following the "**Research by code**" that leads directly to the item, the "**Product filter**" to choose the most suitable product from a dynamic screen and the '**Configurators**' that also helps less practised users with guided creation of modular products.

All of our fixtures have identity cards showing their technical features and performance.

Once product has been selected on our website, it is possible to download its data sheet with all the required information.


3F Filippi
Azienda
Prodotti
Applicazioni
Referenze
Download
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Press Area
Contatti
Prodotti | Stagni e anticorrosivi | 3F Tank | 3F Tank ATEX
Modelli
Caratteristiche
Accessori
3F Tank ATEX Lite
Type here to search

/ catalogue

_Surface luminaires and suspensions

/ 3F Filippi

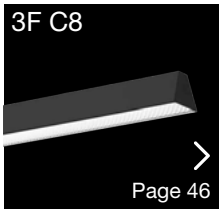


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Classici
Classici italiani del '900
Latini e Greci

/ Zero 3F

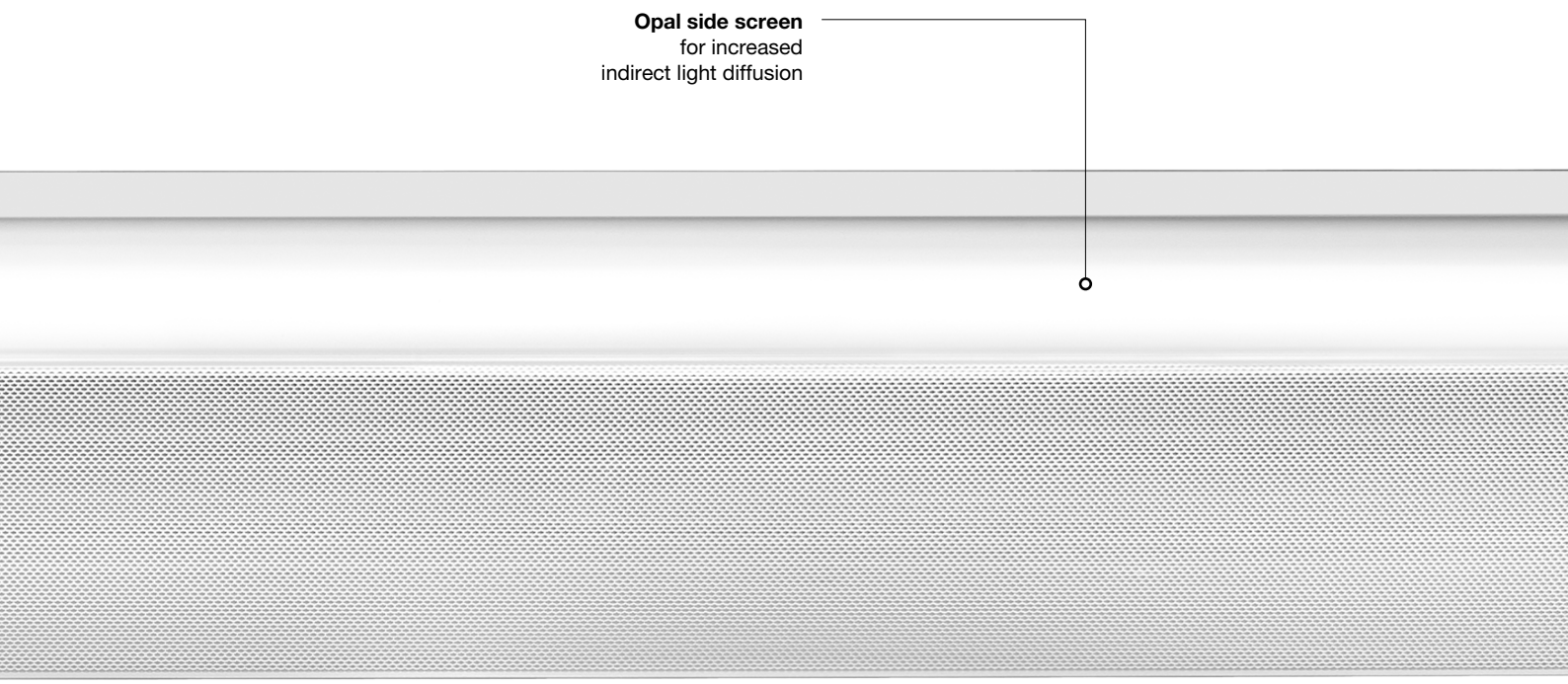
In modern study and work spaces, **the homogeneity of light** is a fundamental element to reduce shadow areas and improve volume perception.

Minimising the contrast between areas that are lit differently limits eye stress making the environment more comfortable.

The new Zero 3F was designed specifically to cope with visual tasks efficiently in task-areas, thanks to an increase in the surrounding and background areas.

Light is distributed widely even on the walls to limit the “cave effect” and to enhance the furnishings and information present on vertical surfaces.

Zero 3F
IIS “Podesti - Calzecchi Onesti“
Chiaravalle (AN), Italy



Diffused **light** like **natural** one.

Zero 3F was born from 3F Filippi's over ten years of experience in school and work environments, where visual comfort and the diffusion of light are the basis of the lighting design.

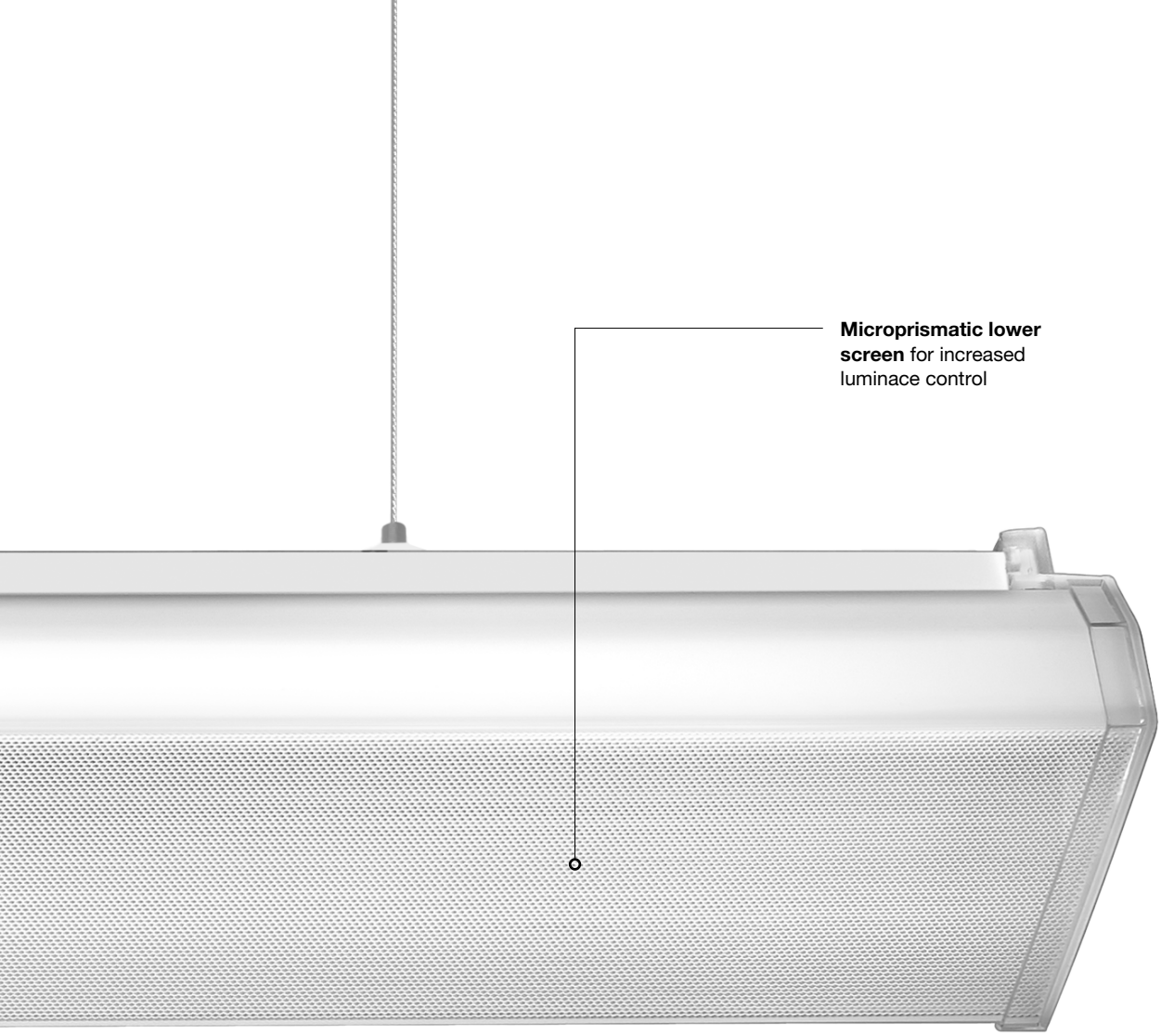
To obtain **low luminance values**, we maximized the area of the emitting surface, so as to obtain the best possible light intensity.

The result is a microprismatic body in the lower surface to obtain the shielding required by the regulations and an opal side area to softly diffuse the light into the space and give the feeling of suspension of the device.

It is a simple, clean design, which fits discreetly into any type of environment.

To obtain a perfect 360° light we created an end cap using the best mould technology available and using state-of-the-art LED sources that are not visible from any angle.

The diffusion and homogeneity obtained give a sense of incomparable luminance fullness to enhance any environment to the full whether it is a school classroom, an office or simply a corridor.


Microprismatic lower screen for increased luminace control

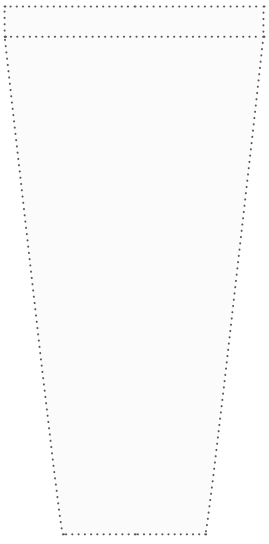




Full and **perfect diffusion.**

As you can see from the simulations below increasing the luminosity of vertical surfaces is a significant element that improves the visibility of information like that contained in bookshelves.

Above:
standard fixture
Direct
photometric distribution

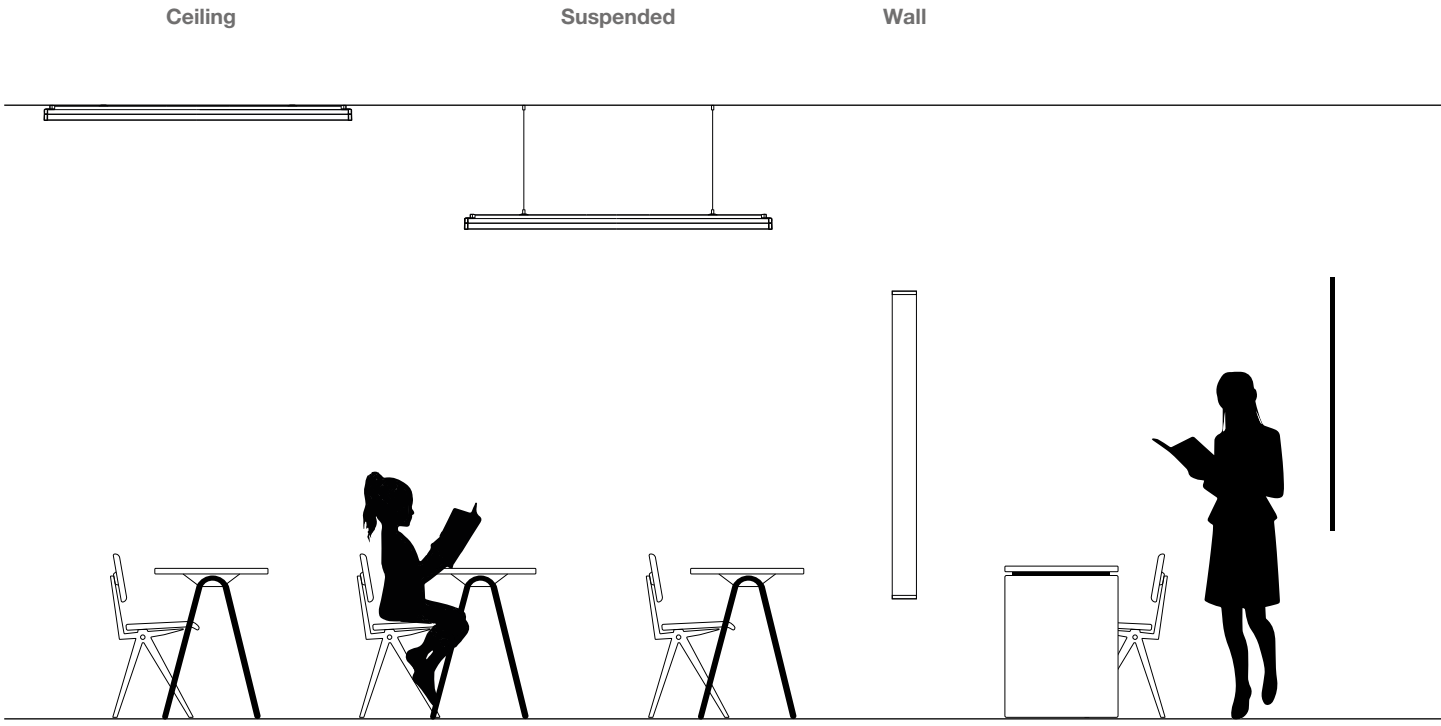




The indirect light component reduces visual contrast and makes the product seem to be suspended even if it is installed on the ceiling, and the mix between this and the direct light rays generate a **uniform light** right up to the joins between the walls and the ceiling.

Above:
Zero 3F
Direct/indirect
photometric distribution





Range

Zero 3F

	W	lm	LED	Wiring	Installation	Dt x Dl	L x A x H
Zero 3F	16 - 59	1933 - 6227	/830 /840 /940	ON/OFF D2D EP D2D EP	ceiling suspension wall	1,32 x 1,30	620 x 119 x 64 1204 x 119 x 64 1506 x 119 x 64 1787 x 119 x 64
Zero 3F AS	16 - 58	1850 - 5957	/830 /840 /940	ON/OFF	ceiling suspension wall	/	620 x 119 x 64 1204 x 119 x 64 1506 x 119 x 64 1787 x 119 x 64
Zero 3F HO	20 - 57	2322 - 7593	/830 /840	ON/OFF D2D	ceiling suspension wall	1,32 x 1,30	620 x 119 x 64 1204 x 119 x 64 1506 x 119 x 64 1787 x 119 x 64

Lateral view

Frontal view

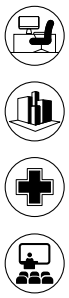


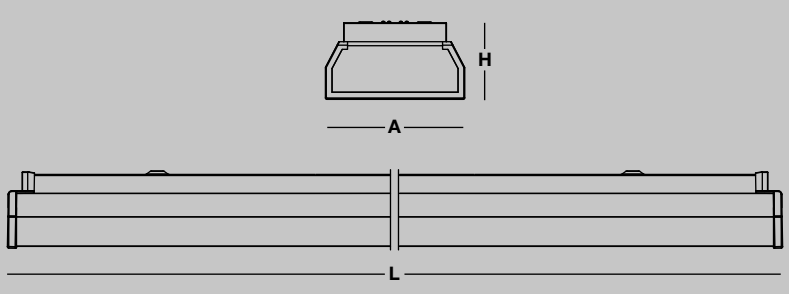
Range

Zero 3F

	W	lm	LED	Wiring	Installation	Dt x Dl	L x A x H
Zero 3F starting channel central channel end channel	31 - 46	4029 - 6042	/830 /840	ON/OFF D2D	ceiling suspension	1,32 x 1,30	1204 x 119 x 64 1506 x 119 x 64 1787 x 119 x 64
Zero 3F Tunable White	33 - 50	4115 - 6172	/827 /840 /865	DT8	ceiling suspension wall	1,30 x 1,32	1204 x 119 x 64 1506 x 119 x 64 1787 x 119 x 64







IIS "Podesti - Calzecchi Onesti"
Chiaravalle (AN)
Italia/Italy



Zero 3F

ILLUMINOTECHNICAL

Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.
Lighting end caps in methacrylate (PMMA) opal.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Ceiling, suspension or wall installation.
Thanks to the full compatibility for dimensions and fixing distances, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

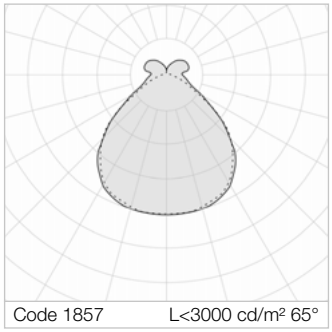
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

Zero 3F

EP | D | 650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1857 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1811	03F 14W/830 L620	16	1933	3000	>80	620x119x64
1812	03F 28W/830 L1204	31	3868	3000	>80	1204x119x64
1813	03F 35W/830 L1506	40	5251	3000	>80	1506x119x64
1814	03F 42W/830 L1787	46	5800	3000	>80	1787x119x64
1855	03F 14W/840 L620	16	2014	4000	>80	620x119x64
1856	03F 28W/840 L1204	31	4029	4000	>80	1204x119x64
1857	03F 35W/840 L1506	40	5469	4000	>80	1506x119x64
1858	03F 42W/840 L1787	46	6042	4000	>80	1787x119x64
1859	03F 18W/940 L620	20	1983	4000	>90	620x119x64
1860	03F 35W/940 L1204	41	4152	4000	>90	1204x119x64
1861	03F 44W/940 L1506	50	5190	4000	>90	1506x119x64
1862	03F 53W/940 L1787	58	6227	4000	>90	1787x119x64

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1815	03F 14W/830 DALI L620	16	1933	3000	>80	620x119x64
1816	03F 28W/830 DALI L1204	31	3868	3000	>80	1204x119x64
1817	03F 35W/830 DALI L1506	40	5251	3000	>80	1506x119x64
1818	03F 42W/830 DALI L1787	46	5800	3000	>80	1787x119x64
1863	03F 14W/840 DALI L620	16	2014	4000	>80	620x119x64
1867	03F 18W/940 DALI L620	20	1983	4000	>90	620x119x64
1868	03F 35W/940 DALI L1204	40	4152	4000	>90	1204x119x64
1869	03F 44W/940 DALI L1506	49	5190	4000	>90	1506x119x64
1870	03F 53W/940 DALI L1787	57	6227	4000	>90	1787x119x64
1864	03F 28W/840 DALI L1204	31	4029	4000	>80	1204x119x64
1865	03F 35W/840 DALI L1506	40	5469	4000	>80	1506x119x64
1866	03F 42W/840 DALI L1787	46	6042	4000	>80	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
1819	03F 28W/830 EP L1204	32	3868	3000	>80	1204x119x64
1820	03F 35W/830 EP L1506	41	5251	3000	>80	1506x119x64
1821	03F 42W/830 EP L1787	47	5800	3000	>80	1787x119x64
1871	03F 28W/840 EP L1204	32	4029	4000	>80	1204x119x64
1872	03F 35W/840 EP L1506	41	5469	4000	>80	1506x119x64
1873	03F 42W/840 EP L1787	47	6042	4000	>80	1787x119x64
1874	03F 35W/940 EP L1204	42	4152	4000	>90	1204x119x64
1875	03F 44W/940 EP L1506	51	5190	4000	>90	1506x119x64
1876	03F 53W/940 EP L1787	59	6227	4000	>90	1787x119x64

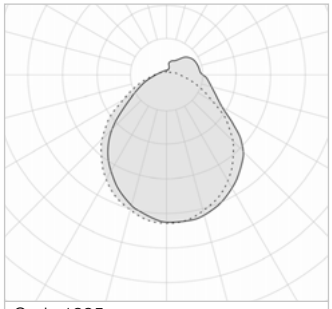
DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
1822	03F 28W/830 DALI EP L1204	32	3868	3000	>80	1204x119x64
1823	03F 35W/830 DALI EP L1506	41	5251	3000	>80	1506x119x64
1824	03F 42W/830 DALI EP L1787	47	5800	3000	>80	1787x119x64
1877	03F 28W/840 DALI EP L1204	32	4029	4000	>80	1204x119x64
1878	03F 35W/840 DALI EP L1506	41	5469	4000	>80	1506x119x64
1879	03F 42W/840 DALI EP L1787	47	6042	4000	>80	1787x119x64
1880	03F 35W/940 DALI EP L1204	41	4152	4000	>90	1204x119x64
1881	03F 44W/940 DALI EP L1506	50	5190	4000	>90	1506x119x64
1882	03F 53W/940 DALI EP L1787	58	6227	4000	>90	1787x119x64

Zero 3F AS

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1885

Asymmetric distribution.
Internal recuperator in white painted steel.

ON/OFF electronic wiring 230V-50/60Hz

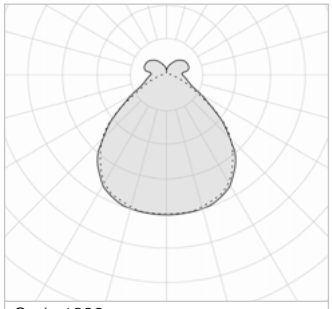
Code	Item	W	lm	K	CRI	L x A x H
1825	03F 14W/830 AS L620	16	1850	3000	>80	620x119x64
1826	03F 28W/830 AS L1204	31	3700	3000	>80	1204x119x64
1827	03F 35W/830 AS L1506	40	5023	3000	>80	1506x119x64
1828	03F 42W/830 AS L1787	46	5549	3000	>80	1787x119x64
1883	03F 14W/840 AS L620	16	1927	4000	>80	620x119x64
1884	03F 28W/840 AS L1204	31	3854	4000	>80	1204x119x64
1885	03F 35W/840 AS L1506	40	5232	4000	>80	1506x119x64
1886	03F 42W/840 AS L1787	46	5780	4000	>80	1787x119x64
1887	03F 18W/940 AS L620	20	1897	4000	>90	620x119x64
1888	03F 35W/940 AS L1204	41	3971	4000	>90	1204x119x64
1889	03F 44W/940 AS L1506	50	4965	4000	>90	1506x119x64
1890	03F 53W/940 AS L1787	58	5957	4000	>90	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Zero 3F HO

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1893

Controlled symmetric distribution.

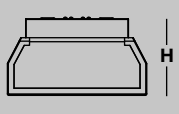
ON/OFF electronic wiring 230V-50/60Hz

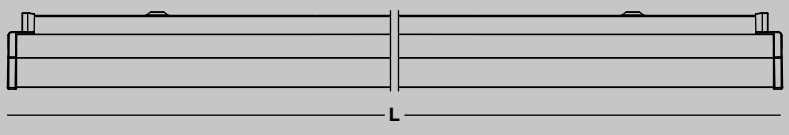
Code	Item	W	lm	K	CRI	L x A x H
1829	03F HO 18W/830 L620	20	2322	3000	>80	620x119x64
1830	03F HO 35W/830 L1204	40	4860	3000	>80	1204x119x64
1831	03F HO 44W/830 L1506	49	6076	3000	>80	1506x119x64
1832	03F HO 53W/830 L1787	57	7290	3000	>80	1787x119x64
1891	03F HO 18W/840 L620	20	2418	4000	>80	620x119x64
1892	03F HO 35W/840 L1204	40	5063	4000	>80	1204x119x64
1893	03F HO 44W/840 L1506	49	6329	4000	>80	1506x119x64
1894	03F HO 53W/840 L1787	57	7593	4000	>80	1787x119x64

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1833	03F HO 18W/830 DALI L620	20	2322	3000	>80	620x119x64
1834	03F HO 35W/830 DALI L1204	40	4860	3000	>80	1204x119x64
1835	03F HO 44W/830 DALI L1506	49	6076	3000	>80	1506x119x64
1836	03F HO 53W/830 DALI L1787	57	7290	3000	>80	1787x119x64
1895	03F HO 18W/840 DALI L620	20	2418	4000	>80	620x119x64
1896	03F HO 35W/840 DALI L1204	40	5063	4000	>80	1204x119x64
1897	03F HO 44W/840 DALI L1506	49	6329	4000	>80	1506x119x64
1898	03F HO 53W/840 DALI L1787	57	7593	4000	>80	1787x119x64




H
A


L



Zero 3F Channel

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Entrance to the upper power supply in proximity to a power head.
5 mm² section 1.5 pin through line with an irreversible quick coupling plug plug/socket fixed on the body for rapid electrical connection.

INSTALLATION

Continuous light channel installation on ceiling or suspension.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

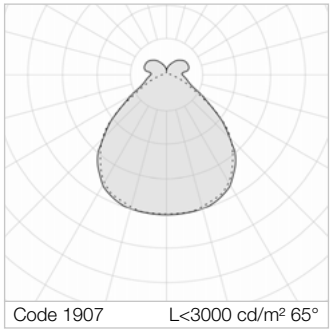
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

Zero 3F Starting channel

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1907 L<3000 cd/m² 65°

Opal methacrylate (PMMA) luminous end cap.
Hot-dip galvanised steel connecting element in white.
White polycarbonate union collar.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1775	03F 28W/840 3P SC L1204	31	4029	4000	>80	1204x119x64
1776	03F 35W/840 3P SC L1506	40	5469	4000	>80	1506x119x64
1777	03F 42W/840 3P SC L1787	46	6042	4000	>80	1787x119x64
1778	03F 28W/830 3P SC L1204	31	3868	3000	>80	1204x119x64
1779	03F 35W/830 3P SC L1506	40	5251	3000	>80	1506x119x64
1780	03F 42W/830 3P SC L1787	46	5800	3000	>80	1787x119x64

DALI electronic wiring 230V-50/60Hz

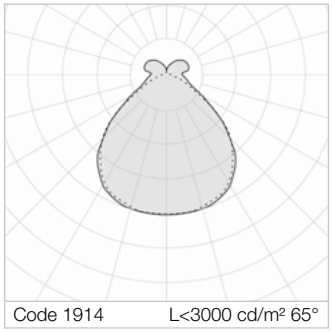
Code	Item	W	lm	K	CRI	L x A x H
1837	03F 28W/830 DALI 5P SC L1204	31	3868	3000	>80	1204x119x64
1838	03F 35W/830 DALI 5P SC L1506	40	5251	3000	>80	1506x119x64
1839	03F 42W/830 DALI 5P SC L1787	46	5800	3000	>80	1787x119x64
1905	03F 28W/840 DALI 5P SC L1204	31	4029	4000	>80	1204x119x64
1906	03F 35W/840 DALI 5P SC L1506	40	5469	4000	>80	1506x119x64
1907	03F 42W/840 DALI 5P SC L1787	46	6042	4000	>80	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Zero 3F Central channel

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1914 L<3000 cd/m² 65°

Hot-dip galvanised steel connecting element in white.
White polycarbonate union collar.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1781	03F 28W/840 3P CC L1204	31	4029	4000	>80	1204x119x64
1782	03F 35W/840 3P CC L1506	40	5469	4000	>80	1506x119x64
1783	03F 42W/840 3P CC L1787	46	6042	4000	>80	1787x119x64
1784	03F 28W/830 3P CC L1204	31	3868	3000	>80	1204x119x64
1785	03F 35W/830 3P CC L1506	40	5251	3000	>80	1506x119x64
1786	03F 42W/830 3P CC L1787	46	5800	3000	>80	1787x119x64

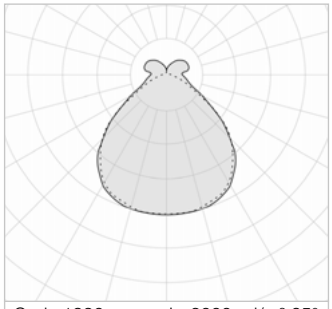
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1840	03F 28W/830 DALI 5P CC L1204	31	3868	3000	>80	1204x119x64
1841	03F 35W/830 DALI 5P CC L1506	40	5251	3000	>80	1506x119x64
1842	03F 42W/830 DALI 5P CC L1787	46	5800	3000	>80	1787x119x64
1912	03F 28W/840 DALI 5P CC L1204	31	4029	4000	>80	1204x119x64
1913	03F 35W/840 DALI 5P CC L1506	40	5469	4000	>80	1506x119x64
1914	03F 42W/840 DALI 5P CC L1787	46	6042	4000	>80	1787x119x64

Zero 3F End channel

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 1920 L<3000 cd/m² 65°

Opal methacrylate (PMMA) luminous end cap.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1787	03F 28W/840 3P EC L1204	31	4029	4000	>80	1204x119x64
1788	03F 35W/840 3P EC L1506	40	5469	4000	>80	1506x119x64
1789	03F 42W/840 3P EC L1787	46	6042	4000	>80	1787x119x64
1790	03F 28W/830 3P EC L1204	31	3868	3000	>80	1204x119x64
1791	03F 35W/830 3P EC L1506	40	5251	3000	>80	1506x119x64
1792	03F 42W/830 3P EC L1787	46	5800	3000	>80	1787x119x64

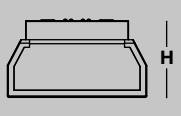
DALI electronic wiring 230V-50/60Hz

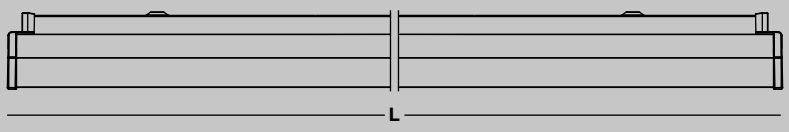
Code	Item	W	lm	K	CRI	L x A x H
1843	03F 28W/830 DALI 5P EC L1204	31	3868	3000	>80	1204x119x64
1844	03F 35W/830 DALI 5P EC L1506	40	5251	3000	>80	1506x119x64
1845	03F 42W/830 DALI 5P EC L1787	46	5800	3000	>80	1787x119x64
1918	03F 28W/840 DALI 5P EC L1204	31	4029	4000	>80	1204x119x64
1919	03F 35W/840 DALI 5P EC L1506	40	5469	4000	>80	1506x119x64
1920	03F 42W/840 DALI 5P EC L1787	46	6042	4000	>80	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**









IIS "Podesti - Calzecchi Onesti"
Chiaravalle (AN)
Italia/Italy



Zero 3F Tunable White

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
The colour temperature can be adjusted between 2700 K and 6500 K.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.
Lighting end caps in methacrylate (PMMA) opal.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Cable with a DALI DT8 driver.
5-pole terminal block (L-N-PE-DA/DA) for line connection with connection capacity 2x2.5 mm² per poles.

INSTALLATION

Ceiling, suspension or wall installation.
Thanks to the full compatibility for dimensions and fixing distances, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Any environments requiring light which aims for the wellness of people.
Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

Tunable White products can be controlled with wired control systems (page 652) or 3F & Casambi (page 656).

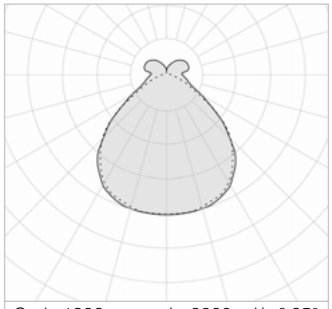
ON REQUEST

- different power levels or colour rendering indices
- emergency versions

Zero 3F Tunable White

650°C | IP40 | 1J | IK06 | TW | Driver/LED SELV | HACCP





Code 1932 L<3000 cd/m² 65°

Variable light intensity and colour temperature.

DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1930	03F 28W DT8 TW L1204	35 34 33	4115	2700 4000 6500	>80	1204x119x64
1931	03F 35W DT8 TW L1506	43 41.5 40	5144	2700 4000 6500	>80	1506x119x64
1932	03F 42W DT8 TW L1787	50 49 47	6172	2700 4000 6500	>80	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Zero 3F | Accessories



Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.



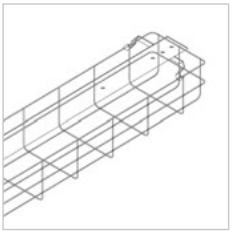
Code	Item
A0660	Suspension with adjustment - 1m
A0661	Suspension with adjustment - 2 m
A0662	Suspension with adjustment - 3 m
A0663	Suspension with adjustment - 4 m
A0664	Suspension with adjustment - 5 m
A0665	Suspension with adjustment - 6 m

Suspension with regulator, galvanised steel cable 1.5 mm diameter, load 15 kg.
Attention: each product requires two suspensions with regulator.



Code	Item
A0679	5 pole rectangular rose (no cable) WH

Electric supply with white polycarbonate case, internal bracket in galvanised steel.

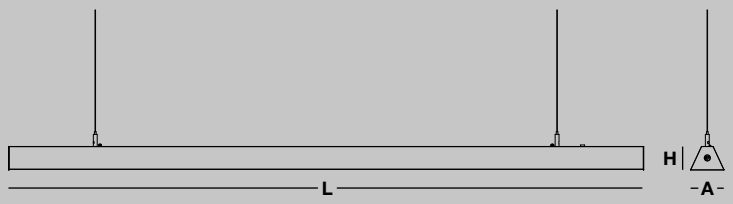


Code	Item
A0455	Wireguard 180x1330 3F Linda
A0456	Wireguard 180x1630 3F Linda

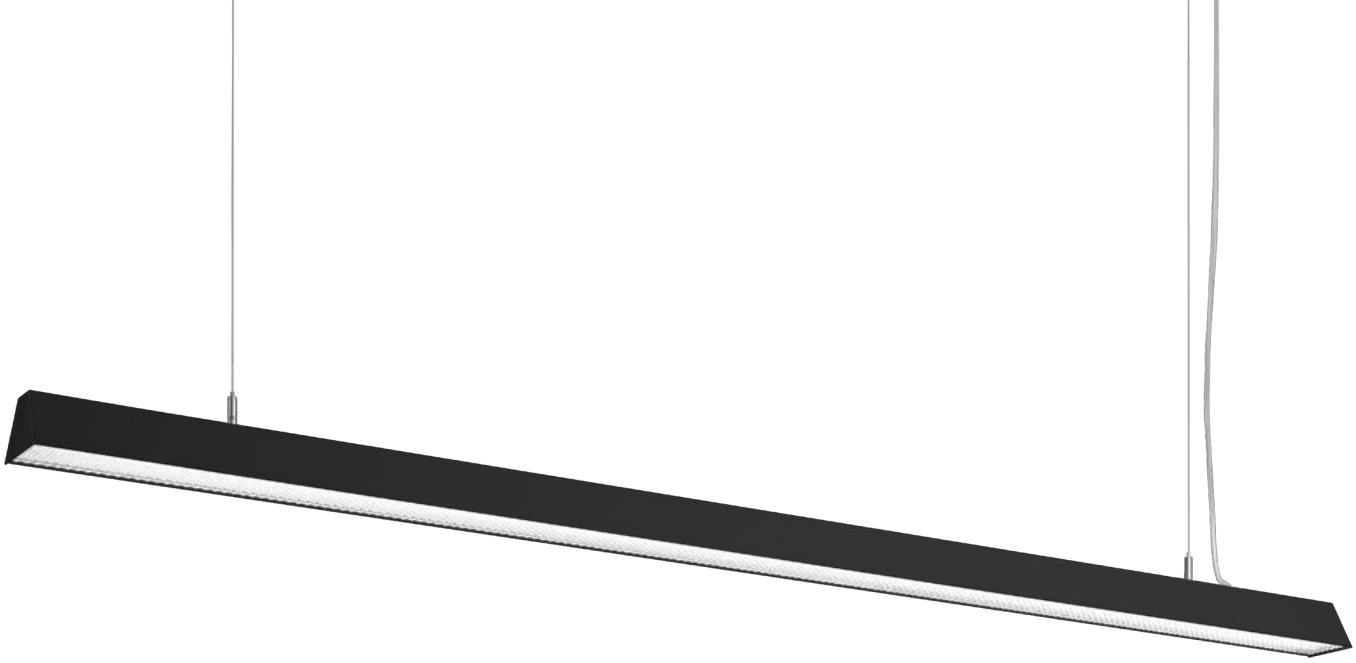
Wire-guard for applications in dry environments, against shocks coming from any directions, galvanised steel rod Ø 5 mm.
Only for luminaires fixed without hooks.







design by Andrea Ciotti



3F C8 Direct

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Extruded aluminium body, zamak heads.
SP flat diffuser in transparent methacrylate (PMMA), outside prismatic, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.
Adjustable suspension fixtures with chrome studs and rapid adjusters, galvanised steel cable of 2 m long.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Transparent 5-pole power cable with white ceiling power supply case.

INSTALLATION

Suspension installation.

APPLICATIONS

Environments involving accurate visual tasks where a diffused and soft light for an optimum visual comfort and the source total shielding are required.
In environments with VDTs, managerial offices and staterooms.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

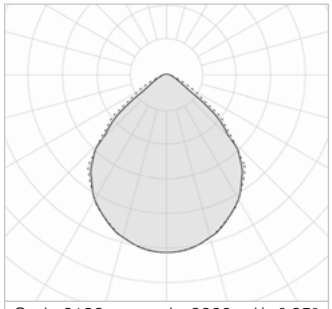
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- power and suspension cables of >2 m long
- different dimensions
- housing in different RAL colours
- emergency versions

3F C8 GSP

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 6128 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for angles >65°.

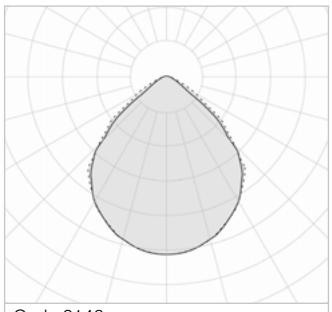
DALI electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	L x A x H
○	6128	3F C8 WH 30/840 DALI GSP L1480	35	2880	4000	>80	1480x77x54
●	6136	3F C8 BK 30/840 DALI GSP L1480	35	2880	4000	>80	1480x77x54

3F C8 HO GSP

650°C | IP40 | 1J | IK06 | Driver/LED SELV



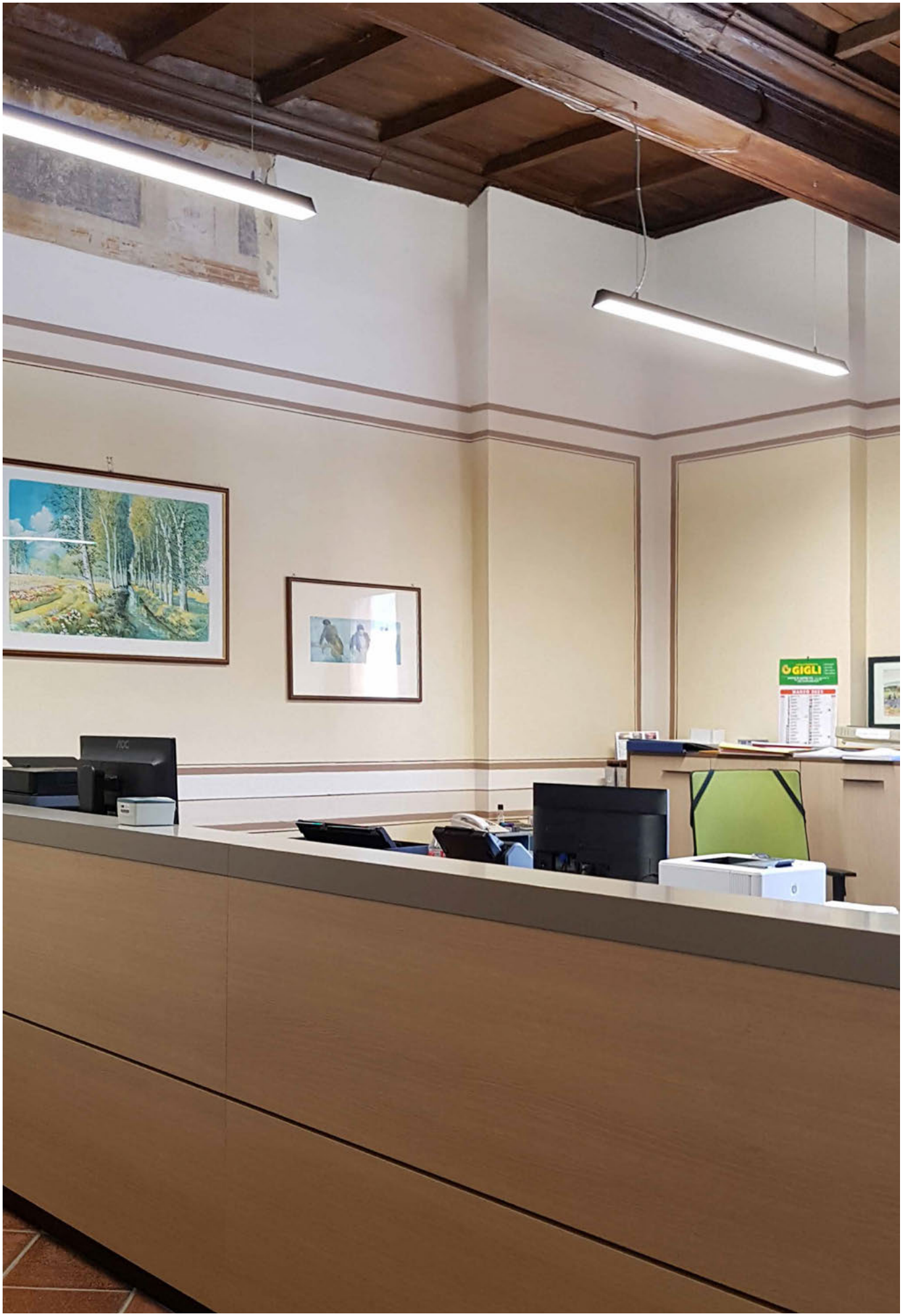


Code 6140

DALI electronic wiring 230V-50/60Hz

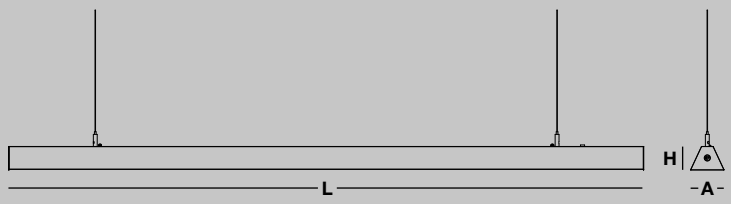
	Code	Item	W	lm	K	CRI	L x A x H
○	6140	3F C8 WH HO 44/840 DALI GSP L1480	51	3912	4000	>80	1480x77x54
●	6148	3F C8 BK HO 44/840 DALI GSP L1480	51	3912	4000	>80	1480x77x54

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


GIGLI



design by Andrea Ciotti





3F C8 Direct/Indirect

ILLUMINOTECHNICAL

Symmetric direct-indirect distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Extruded aluminium body, zamak heads.
SP flat diffuser in transparent methacrylate (PMMA), outside prismatic, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.
Adjustable suspension fixtures with chrome studs and rapid adjusters, galvanised steel cable of 2 m long.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
5-pole transparent power cable with white power supply case for ceiling, single 230V circuit, 2 DALI addresses.

INSTALLATION

Suspension installation.

APPLICATIONS

Environments involving accurate visual tasks where a diffused and soft light for an optimum visual comfort and the source total shielding are required.
In environments with VDTs, managerial offices and staterooms.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

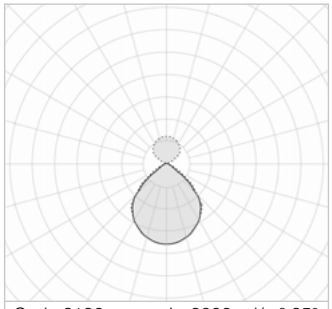
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- power and suspension cables of >2 m long
- twin-circuit
- different dimensions
- housing in different RAL colours
- emergency versions

3F C8 DI GSP

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 6130 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for angles >65°.

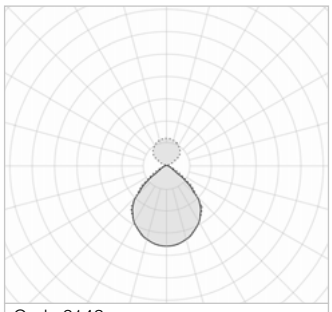
DALI electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	L x A x H
○	6130	3F C8 WH DI 30+8/840 DALI GSP L1480	45	4147	4000	>80	1480x77x54
●	6138	3F C8 BK DI 30+8/840 DALI GSP L1480	45	4147	4000	>80	1480x77x54

3F C8 DI HO GSP

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 6142

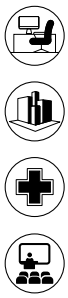
DALI electronic wiring 230V-50/60Hz

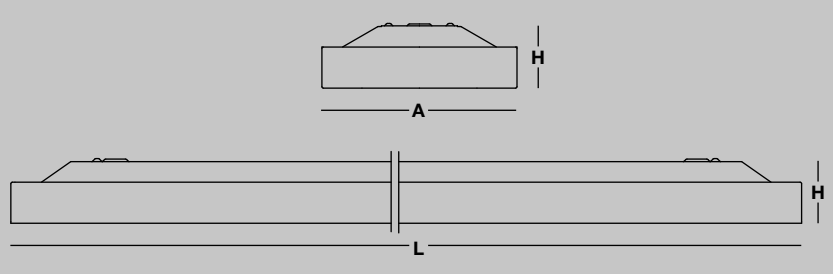
	Code	Item	W	lm	K	CRI	L x A x H
○	6142	3F C8 WH DI HO 44+8/840 DALI GSP L1480	62	5179	4000	>80	1480x77x54
●	6150	3F C8 BK DI HO 44+8/840 DALI GSP L1480	62	5179	4000	>80	1480x77x54

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


BANCA DI
mondi
Olidata







Scuola primaria "R. Mazzetti"
Loiano (BO)
Italia/Italy



3F Travetta Direct

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 2.

MECHANICAL

Housing with squared shape in white painted galvannealed steel, with nonreflecting surface.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Terminal block for cascade line connection with connection capacity 2x2.5 mm².

INSTALLATION

Ceiling mounted or suspension installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: exhibition areas, staterooms, with VDTs, halls, shops, great halls, offices.
Environments where soft diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

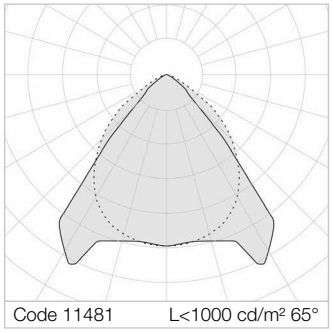
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- different dimensions
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- emergency versions

3F Travetta 2MG

650°C IP20 Driver/LED SELV





Code 11481 L<1000 cd/m² 65°

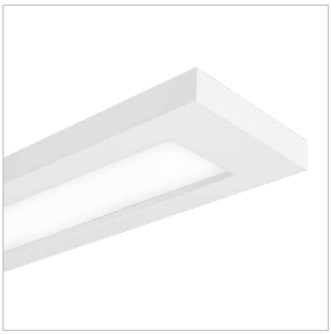
Average luminance <1000 cd/m² for radial angles >65°.
2MG parabolic louvre, high efficiency, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

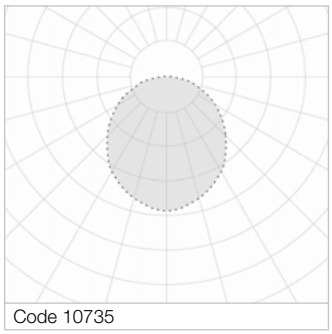
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
11481	3F Travetta LED 1x22W DALI 2MG L1590	24.5	3168	4000	>80	1590x190x60
11484	3F Travetta LED 2x22W DALI 2MG L1590	49	6236	4000	>80	1590x190x60
11515	3F Travetta LED 1x30W/940 DALI 2MG L1590	34	3264	4000	>90	1590x190x60
11516	3F Travetta LED 2x22W/940 DALI 2MG L1590	49	5114	4000	>90	1590x190x60

3F Travetta OP

650°C IP20 Driver/LED SELV





Code 10735

OP opal methacrylate (PMMA) flat diffuser, anti-glare.
Flow recuperator in semi-specular aluminium, high efficiency.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10731	3F Travetta LED 1x18W OP L1290	20	2265	4000	>80	1290x190x60
10732	3F Travetta LED 1x22W OP L1590	24.5	2920	4000	>80	1590x190x60
10734	3F Travetta LED 2x18W OP L1290	40	4409	4000	>80	1290x190x60
10775	3F Travetta LED 1x40W OP L2200	45	4887	4000	>80	2200x190x60
10735	3F Travetta LED 2x22W OP L1590	49	5683	4000	>80	1590x190x60
10777	3F Travetta LED 2x40W OP L2200	90	9511	4000	>80	2200x190x60

DALI electronic wiring 230V-50/60Hz

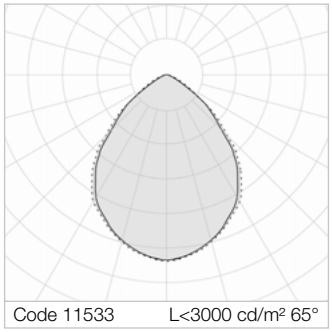
Code	Item	W	lm	K	CRI	L x A x H
11494	3F Travetta LED 1x18W DALI OP L1290	20	2265	4000	>80	1290x190x60
11495	3F Travetta LED 1x22W DALI OP L1590	24.5	2920	4000	>80	1590x190x60
11497	3F Travetta LED 2x18W DALI OP L1290	40	4409	4000	>80	1290x190x60
11511	3F Travetta LED 1x40W DALI OP L2200	45	4887	4000	>80	2200x190x60
11498	3F Travetta LED 2x22W DALI OP L1590	49	5683	4000	>80	1590x190x60
11513	3F Travetta LED 2x40W DALI OP L2200	90	9511	4000	>80	2200x190x60

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Travetta LGS

650°C IP20 Driver/LED SELV





Code 11533 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
Flow recuperator in semi-specular aluminium, high efficiency.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

ON/OFF electronic wiring 230V-50/60Hz

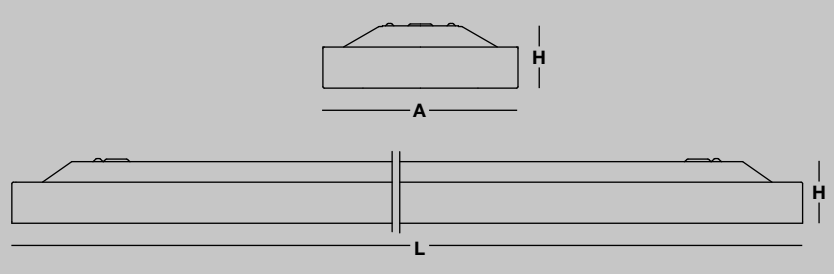
Code	Item	W	lm	K	CRI	L x A x H
11528	3F Travetta LED 1x24W LGS L1290	27	3022	4000	>80	1290x190x60
11530	3F Travetta LED 1x30W LGS L1590	34	3783	4000	>80	1590x190x60
11531	3F Travetta LED 2x18W LGS L1290	40	4550	4000	>80	1290x190x60
11533	3F Travetta LED 2x22W LGS L1590	49	5865	4000	>80	1590x190x60
11566	3F Travetta LED 1x24W/940 LGS L1290	27	2478	4000	>90	1290x190x60
11567	3F Travetta LED 1x30W/940 LGS L1590	34	3102	4000	>90	1590x190x60
11568	3F Travetta LED 2x18W/940 LGS L1290	40	3731	4000	>90	1290x190x60
11569	3F Travetta LED 2x22W/940 LGS L1590	49	4809	4000	>90	1590x190x60

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
11537	3F Travetta LED 1x24W DALI LGS L1290	27	3022	4000	>80	1290x190x60
11539	3F Travetta LED 1x30W DALI LGS L1590	34	3783	4000	>80	1590x190x60
11540	3F Travetta LED 2x18W DALI LGS L1290	40	4550	4000	>80	1290x190x60
11542	3F Travetta LED 2x22W DALI LGS L1590	49	5865	4000	>80	1590x190x60
11570	3F Travetta LED 1x24W/940 DALI LGS L1290	27	2478	4000	>90	1290x190x60
11571	3F Travetta LED 1x30W/940 DALI LGS L1590	34	3102	4000	>90	1590x190x60
11572	3F Travetta LED 2x18W/940 DALI LGS L1290	40	3731	4000	>90	1290x190x60
11573	3F Travetta LED 2x22W/940 DALI LGS L1590	49	4809	4000	>90	1590x190x60



Municipio di Bastia Umbra
Bastia Umbra
Italia/Italy





3F Travetta Direct/Indirect

ILLUMINOTECHNICAL

Direct-indirect distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 2.

MECHANICAL

Housing with squared shape in white painted galvannealed steel, with nonreflecting surface.
Upper holes closing film made of opal polycarbonate.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Terminal block for cascade line connection with connection capacity 2x2.5 mm².

INSTALLATION

Suspension installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: exhibition areas, staterooms, with VDTs, halls, shops, great halls, offices.
Environments where soft diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).
The DALI Sensor (LS) products are all fitted with light and presence sensors integrated (page 638).

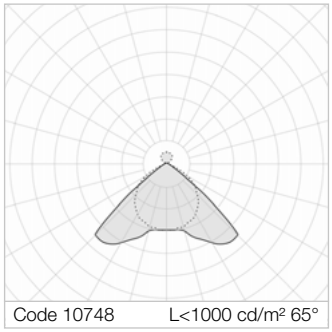
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- different dimensions
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- emergency versions

3F Travetta DI 2MG

650°C IP20 Driver/LED SELV





Code 10748 L<1000 cd/m² 65°

Average luminance <1000 cd/m² for radial angles >65°.
Light emission: direct 85%, indirect 15% .
2MG parabolic louvre, high efficiency, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10747	3F Travetta LED DI 2x15W 2MG L1590	33	3958	4000	>80	1590x190x60
10748	3F Travetta LED DI 2x22W 2MG L1590	49	5865	4000	>80	1590x190x60
10758	3F Travetta LED DI 2x15W/940 2MG L1590	33	3245	4000	>90	1590x190x60
10759	3F Travetta LED DI 2x22W/940 2MG L1590	49	4809	4000	>90	1590x190x60

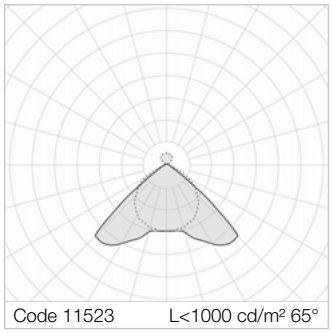
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
11503	3F Travetta LED DI 2x15W DALI 2MG L1590	33	3958	4000	>80	1590x190x60
11504	3F Travetta LED DI 2x22W DALI 2MG L1590	49	5865	4000	>80	1590x190x60
11596	3F Trav. LED DI 2x15W/940 DALI 2MG L1590	33	3245	4000	>90	1590x190x60
11597	3F Trav. LED DI 2x22W/940 DALI 2MG L1590	49	4809	4000	>90	1590x190x60

3F Travetta DI DALI Sensor 2MG

650°C IP20 Driver/LED SELV





Code 11523 L<1000 cd/m² 65°

Average luminance <1000 cd/m² for radial angles >65°.
Light emission: direct 85%, indirect 15% .
2MG parabolic louvre, high efficiency, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.
Integrated DALI light and presence sensor on the luminaire, to keep lighting levels constant in accordance with the amount of natural light and the presence of persons.
Turns on and off and is regulated according to the level of light and the presence of persons.

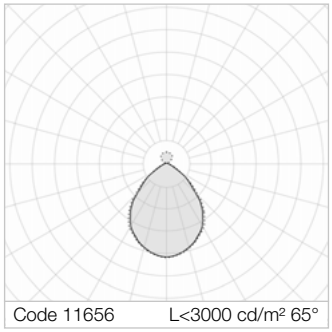
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
11522	3F Trav. LED DI 2x15W DALI LS 2MG L1590	35	3958	4000	>80	1590x190x60
11523	3F Trav. LED DI 2x22W DALI LS 2MG L1590	49	5865	4000	>80	1590x190x60

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Travetta DI LGS





Code 11656 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
Light emission: direct 85%, indirect 15% .
Flow recuperator in semi-glossy aluminium.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.
On request, indirect emission versions enhanced.

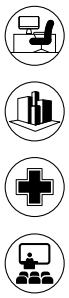
ON/OFF electronic wiring 230V-50/60Hz

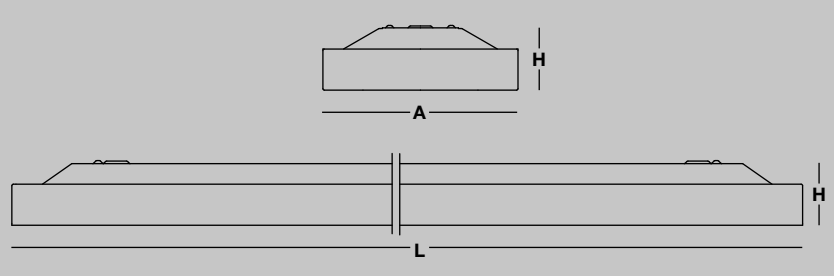
Code	Item	W	lm	K	CRI	L x A x H
11656	3F Travetta LED DI 2x18W LGS L1290	40	3954	4000	>80	1290x190x60
11657	3F Travetta LED DI 2x24W LGS L1290	54	5116	4000	>80	1290x190x60
11599	3F Travetta LED DI 2x22W LGS L1590	49	5096	4000	>80	1590x190x60
11600	3F Travetta LED DI 2x30W LGS L1590	66	6403	4000	>80	1590x190x60
11658	3F Travetta LED DI 2x18W/940 LGS L1290	40	3242	4000	>90	1290x190x60
11659	3F Travetta LED DI 2x24W/940 LGS L1290	54	4195	4000	>90	1290x190x60
11602	3F Travetta LED DI 2x22W/940 LGS L1590	49	4179	4000	>90	1590x190x60
11603	3F Travetta LED DI 2x30W/940 LGS L1590	66	5251	4000	>90	1590x190x60

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
11660	3F Travetta LED DI 2x18W DALI LGS L1290	40	3954	4000	>80	1290x190x60
11661	3F Travetta LED DI 2x24W DALI LGS L1290	54	5116	4000	>80	1290x190x60
11629	3F Travetta LED DI 2x22W DALI LGS L1590	49	5096	4000	>80	1590x190x60
11630	3F Travetta LED DI 2x30W DALI LGS L1590	66	6403	4000	>80	1590x190x60
11662	3F Trav. LED DI 2x18W/940 DALI LGS L1290	40	3242	4000	>90	1290x190x60
11663	3F Trav. LED DI 2x24W/940 DALI LGS L1290	54	4195	4000	>90	1290x190x60
11632	3F Trav. LED DI 2x22W/940 DALI LGS L1590	49	4179	4000	>90	1590x190x60
11633	3F Trav. LED DI 2x30W/940 DALI LGS L1590	66	5251	4000	>90	1590x190x60







Politecnico di Torino
Torino
Italia/Italy



3F Travetta Tunable White

ILLUMINOTECHNICAL

Direct symmetric distribution.
Average luminance <1000 cd/m² for radial angles >65°.
The colour temperature can be adjusted between 2700 K and 6500 K.
Lifetime (L70/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing with squared shape in white painted galvannealed steel, with nonreflecting surface.
2MG parabolic louvre, high efficiency, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, with transverse blades closed at the top.
Opal methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Cable with a DALI DT8 driver.
5-pole terminal block (L-N-PE-DA/DA) for line connection with connection capacity 2x2.5 mm² per poles.

INSTALLATION

Ceiling mounted or suspension installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Any environments requiring light which aims for the wellness of people.
Environments with VDTs.
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.

LIGHT MANAGEMENT

Tunable White products can be controlled with wired control systems (page 652) or 3F & Casambi (page 656).

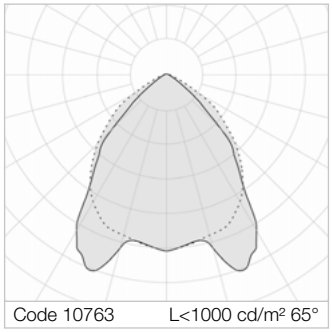
ON REQUEST

- different power levels or colour rendering indices
- different dimensions
- housing and accessories in different RAL colours
- emergency versions

3F Travetta Tunable White 2MG

650°C IP20 TW Driver/LED SELV





Code 10763 L<1000 cd/m² 65°

Variable light intensity and colour temperature.

DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10763	3F TRAV. LED 2X22W DALI DT8 TW 2MG L1590	50	5550 6236 6236	2700 4000 6500	>80	1590x190x60

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Travetta | Accessories



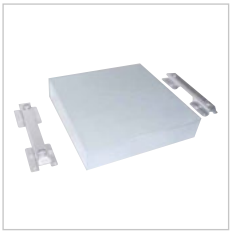
Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.



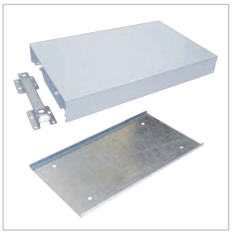
Code	Item
A0875	Connecting bracket Travetta

Connecting bracket to form linear channels or branches of single luminaires, in galvanised steel with upper holes for adjustable suspensions.



Code	Item
A0892	White connect.elem.190x190 3F Travetta
A0894	White connect.elem.190x210 3F Travetta
A0895	White connect.elem.190x510 3F Travetta
A0896	White connect.elem.190x810 3F Travetta
A0897	White connect.elem.190x1110 3F Travetta
A0941	White con.elem.lum/wall 810 3F Travetta
A0942	Wh.conn.elem.lum/wall 1110 3F Travetta

Linear connecting element and for branch, between luminaires or between luminaires and wall, to form channels, in steel with accessorizable cover, white colour. It allows the passage of the power-supply line. Concerning the use of connecting elements in false ceilings 600x600, see installation.
On request: elements of desired length. Connecting elements for false ceiling 625x625.



Code	Item
A0951	White branch elem. 190x310 3F Travetta
A0952	White branches elem. 190x460 3F Travetta
A0877	Bracket for T-branch for 3F Travetta
A0878	Bracket for X-branch for 3F Travetta

Branching in correspondence with the steel linear connecting elements with a white colour accessory cover. **It allows the passage of the power-supply line. The 190x190 linear connecting element can also be used for T junctions (request a bracket code A0875) and X junctions (request two brackets code A0875). To obtain an excellent T or X junction for connecting elements of a false ceiling with 600x600 visible profiles, the combination of a 1110 mm linear element with a 460 mm junction and the combination of a 810 mm linear element with a 310 mm junction are recommended.**



Code	Item
A0870	White conn. elem. with boss for lum.
A0872	White conn.elem. to wall w/boss for lum.

Connecting element between luminaires or between luminaire and wall, white colour, composed of aluminium tube 1.5 m long Ø20 mm, which can be sectioned to any desired length, it allows the passage of the power-supply line.



Code	Item
A01368	Travetta B joint closing cap

Linear connecting element end cap to be used when there are connecting elements at the beginning or end of a channel.



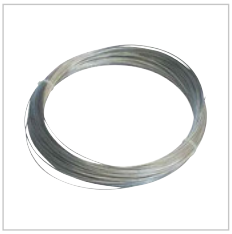
Code	Item
A01318	White rectangular case adj. susp. 1 m
A01325	Wired adj. susp. 5P wh.rect.case 1 m

Adjustable suspension with polycarbonate case in white colour, internal bracket in galvanised steel. Wired version with transparent power-supply cable 5x1.5 mm². Stainless steel cables Ø 1.25 mm, length 1 m, leaded at one end with adjusters for coupling on the luminaire.
On request: for suspensions longer than 1 m, it is necessary order stainless steel cables Ø 1,25 mm in spool of 100 m and pack of n° 100 clamps.
Accessory always required for 2200 mm long products.



Code	Item
A01314	White rectangular case fixed susp. 0,3m
A01315	White rectangular case fixed susp. 0,5m
A01317	White rectangular case fixed susp. 1m
A01321	Wired fixed susp. 5P wh.rect.case 0,3m
A01322	Wired fixed susp. 5P wh.rect.case 0,5m
A01324	Wired fixed susp. 5P wh.rect.case 1m

Fixed suspension with white polycarbonate case, internal bracket in galvanised steel. Wired version with transparent power-supply cable 5x1.5 mm². Ø 1.25 mm stainless steel cables leaded at the end for coupling on the luminaire.



Code	Item
A0620	Spool stain.ste.cab.diam. 1,25mm 100 m The pack contains 100 metres.

Coil of stainless steel cable Ø 1.25 mm, length 100 m.



Code	Item
A0622	Clamp 1 hole suspension - 100 pcs The pack contains 100 pieces.

Clamps in nickel-plated brass suitable for fixing of steel wire (diameter 1.25 mm 1.5 mm - 2 mm), complete with locking screws.

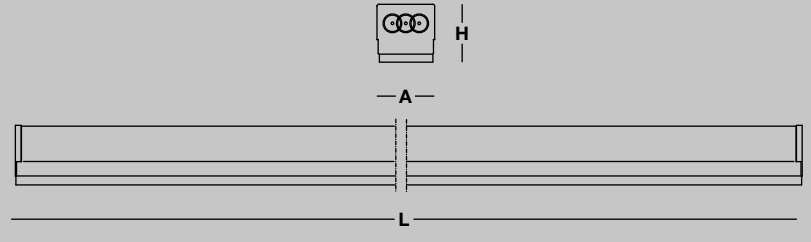


Code	Item
A0679	5 pole rectangular rose (no cable) WH

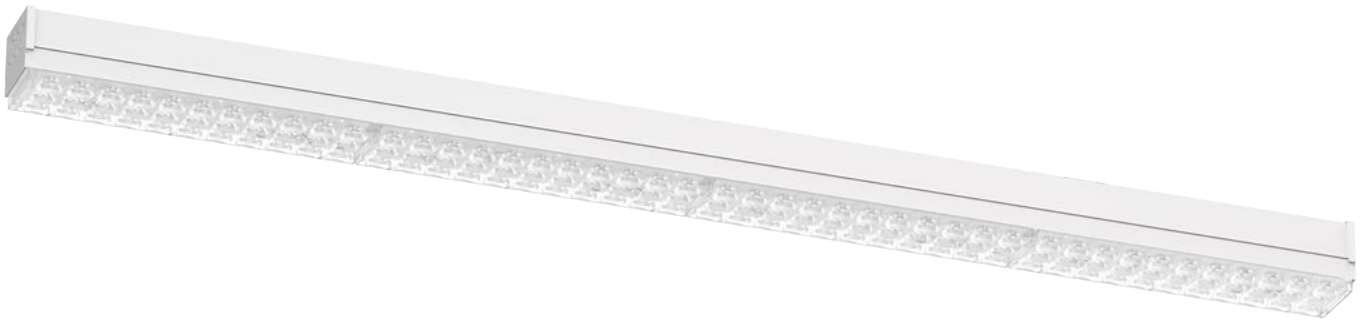
Electric supply with white polycarbonate case, internal bracket in galvanised steel.







CAW (Centrum Algemeen Welzijn)
Turnhout
Belgique/Belgium



3F Zeta L

ILLUMINOTECHNICAL

Wide, direct and asymmetric controlled distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

L UGR version
Average luminance <3000 cd/m² for radial angles >65°.

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
End caps in white polycarbonate.
Stainless steel mounting brackets with anti-slip screws.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments: architectural, commercial, transit areas, cornices, boards.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

L UGR version
Environments: exhibition areas, staterooms, with VDTs, halls, shops, great halls, offices.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

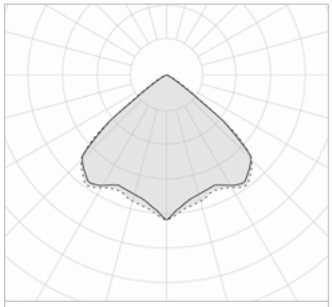
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- HACCP versions
- IP54 version
- emergency versions

3F Zeta L

EP | D | 650°C | IP40 | IK06 | HACCP





Code 10892 L<3000 cd/m² 65°

Lenses for wide distribution, in transparent methacrylate (PMMA) with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10894	3F Zeta L 15 LED L605	17	2749	4000	>80	605x62x65
10893	3F Zeta L 30 LED L1194	31	5498	4000	>80	1194x62x65
10892	3F Zeta L 40 LED L1489	38.5	6872	4000	>80	1489x62x65
10891	3F Zeta L 50 LED L1783	46	8247	4000	>80	1783x62x65

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10977	3F Zeta L 30 LED DALI L1194	31	5498	4000	>80	1194x62x65
10976	3F Zeta L 40 LED DALI L1489	38.5	6872	4000	>80	1489x62x65
10975	3F Zeta L 50 LED DALI L1783	46	8247	4000	>80	1783x62x65

EP maintained emergency wiring, 1hr duration with 24hrs recharge

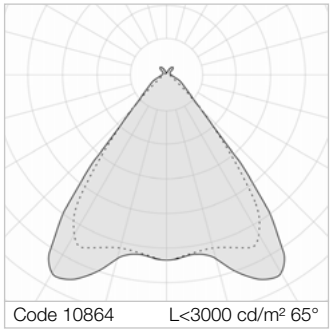
Code	Item	W	lm	K	CRI	L x A x H
10988	3F Zeta L 40 LED EP L1489	40	6872	4000	>80	1489x62x65
10987	3F Zeta L 50 LED EP L1783	47	8247	4000	>80	1783x62x65

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Zeta L UGR

EP | D | 650°C | IP40 | 1J | IK06 | HACCP





Code 10864 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
Transparent methacrylate (PMMA) controlled distribution lenses with flat external surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10864	3F Zeta L UGR 30 LED L1194	31	5481	4000	>80	1194x62x65
10840	3F Zeta L UGR 30/940 LED L1194	33	4494	4000	>90	1194x62x65
10863	3F Zeta L UGR 40 LED L1489	38.5	6851	4000	>80	1489x62x65
10839	3F Zeta L UGR 40/940 LED L1489	40	5618	4000	>90	1489x62x65
11026	3F Zeta L UGR 50 LED L1783	46	8221	4000	>80	1783x62x65
11027	3F Zeta L UGR 50/940 LED L1783	50	6742	4000	>90	1783x62x65

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10867	3F Zeta L UGR 30 LED DALI L1194	31	5481	4000	>80	1194x62x65
10842	3F Zeta L UGR 30/940 LED DALI L1194	33	4494	4000	>90	1194x62x65
10866	3F Zeta L UGR 40 LED DALI L1489	38.5	6851	4000	>80	1489x62x65
10841	3F Zeta L UGR 40/940 LED DALI L1489	40	5618	4000	>90	1489x62x65
11028	3F Zeta L UGR 50 LED DALI L1783	46	8221	4000	>80	1783x62x65
11029	3F Zeta L UGR 50/940 LED DALI L1783	50	6742	4000	>90	1783x62x65

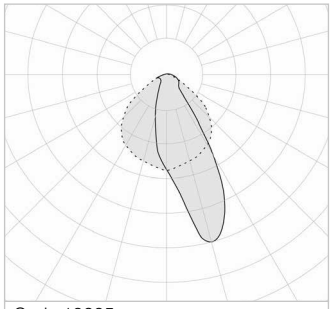
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
10844	3F Zeta L UGR 30 LED EP L1194	32	5481	4000	>80	1194x62x65
10846	3F Zeta L UGR 30/940 LED EP L1194	34	4494	4000	>90	1194x62x65
10843	3F Zeta L UGR 40 LED EP L1489	40	6851	4000	>80	1489x62x65
10845	3F Zeta L UGR 40/940 LED EP L1489	41	5618	4000	>90	1489x62x65
11030	3F Zeta L UGR 50 LED EP L1783	47	8221	4000	>80	1783x62x65
11031	3F Zeta L UGR 50/940 LED EP L1783	51	6742	4000	>90	1783x62x65

3F Zeta L AS

EP | D | 650°C | IP40 | 1J | IK06 | HACCP





Code 10605

Transparent methacrylate (PMMA) asymmetric distribution lenses with a flat external surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10605	3F Zeta L AS 40 LED L1489	38.5	6894	4000	>80	1489x62x65

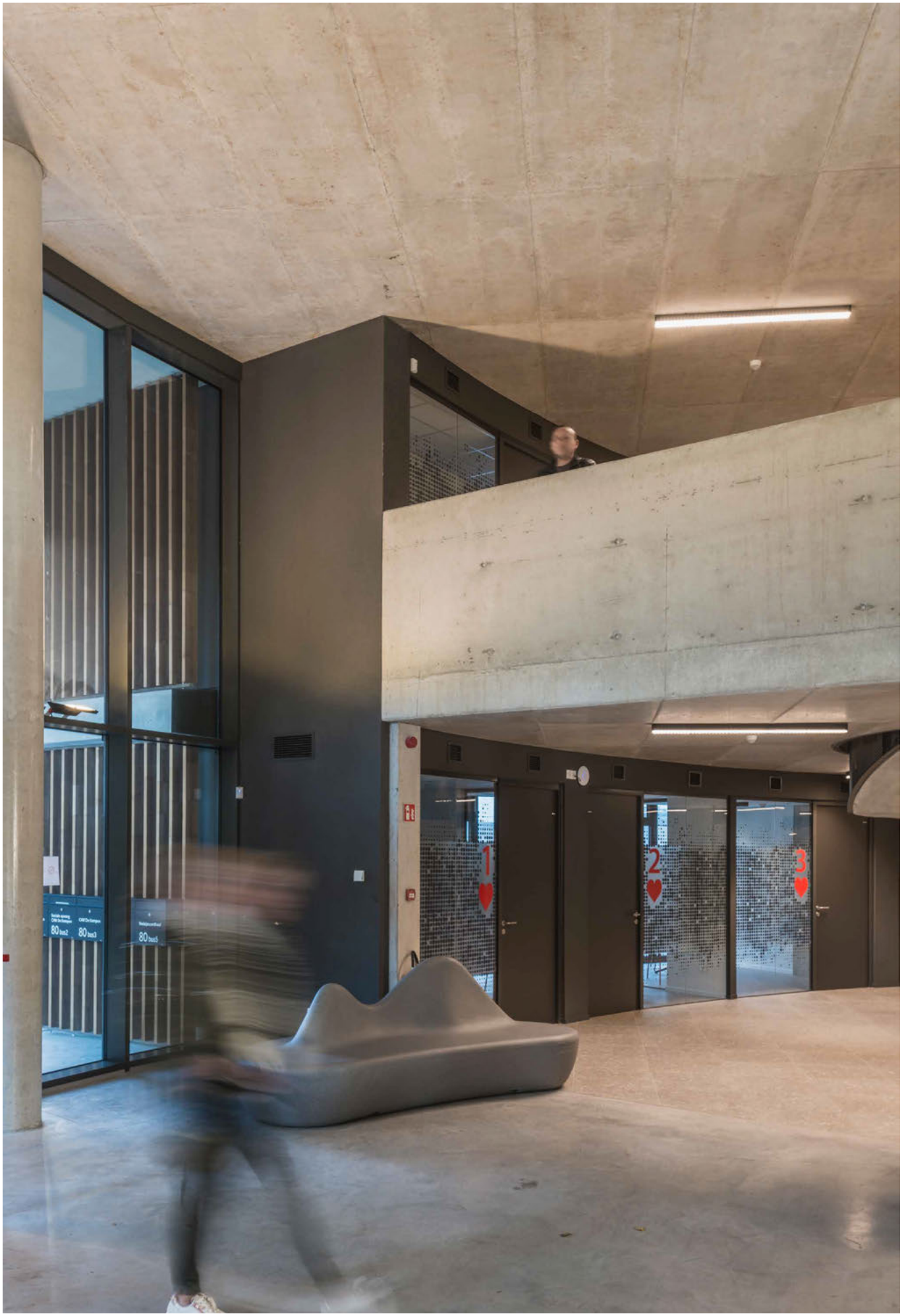
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10606	3F Zeta L AS 40 LED DALI L1489	38.5	6894	4000	>80	1489x62x65

EP maintained emergency wiring, 1hr duration with 24hrs recharge

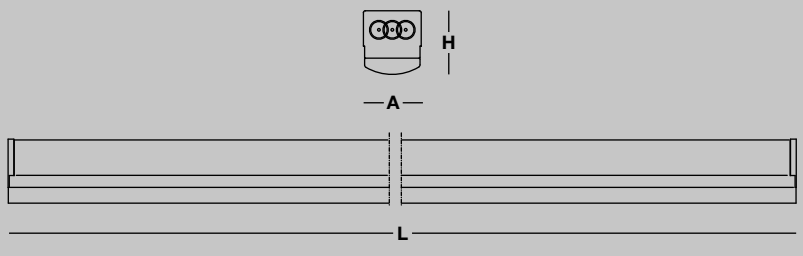
Code	Item	W	lm	K	CRI	L x A x H
10607	3F Zeta L AS 40 LED EP L1489	40	6894	4000	>80	1489x62x65

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


1
2
3



Hangar Fashion
Bat Yam
Yisra'el/Israel





3F Zeta D

ILLUMINOTECHNICAL

Diffused symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Curved screen in self-extinguishing polycarbonate, UV stabilised, opal, with smooth outer surface.
End caps in white polycarbonate.
Stainless steel mounting brackets with anti-slip screws.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments: architectural, commercial, transit areas, cornices, large mirrors, boards.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

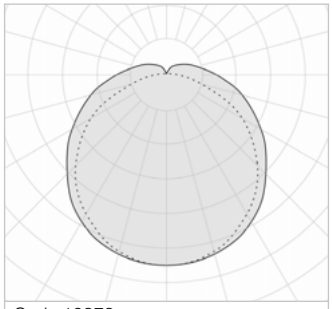
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- class II
- emergency versions

3F Zeta D

EP | D | 850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10873

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10872	3F Zeta D 1x9 LED L605	10	1209	4000	>80	605x62x81
10871	3F Zeta D 1x18 LED L1194	20	2419	4000	>80	1194x62x81
10875	3F Zeta D 2x9 LED L605	20	2418	4000	>80	605x62x81
10870	3F Zeta D 1x22 LED L1489	24.5	3118	4000	>80	1489x62x81
10874	3F Zeta D 2x18 LED L1194	40	4838	4000	>80	1194x62x81
10873	3F Zeta D 2x22 LED L1489	49	6236	4000	>80	1489x62x81

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10962	3F Zeta D 1x18 LED DALI L1194	20	2419	4000	>80	1194x62x81
10961	3F Zeta D 1x22 LED DALI L1489	24.5	3118	4000	>80	1489x62x81
10965	3F Zeta D 2x18 LED DALI L1194	40	4838	4000	>80	1194x62x81
10964	3F Zeta D 2x22 LED DALI L1489	49	6236	4000	>80	1489x62x81

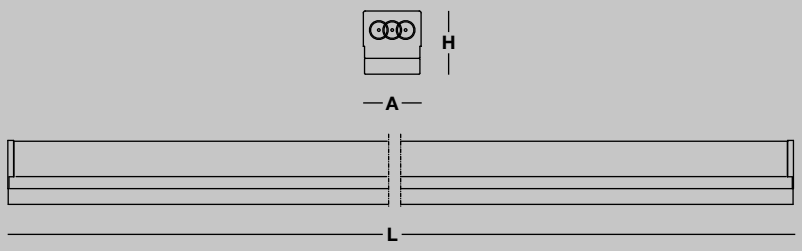
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
10980	3F Zeta D 1x22 LED EP L1489	25.5	3118	4000	>80	1489x62x81
10982	3F Zeta D 2x22 LED EP L1489	50	6236	4000	>80	1489x62x81

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**






H
A
L



3F Zeta DR

ILLUMINOTECHNICAL

Diffused, direct and asymmetric controlled distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
End caps in white polycarbonate.
Stainless steel mounting brackets with anti-slip screws.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments: architectural, commercial, transit areas, cornices, large mirrors, boards.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
Environments: exhibition areas, staterooms, with VDTs, halls, shops, great halls, offices.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

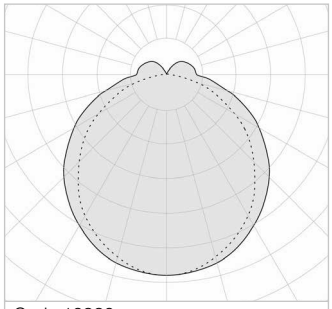
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- class II
- emergency versions

3F Zeta DR

EP | D | 850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10880

Diffused symmetric distribution.
Rectangular screen in self-extinguishing polycarbonate, UV stabilised, opal, with smooth outer surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10879	3F Zeta DR 1x9 LED L605	10	1212	4000	>80	605x62x81
10878	3F Zeta DR 1x18 LED L1194	20	2425	4000	>80	1194x62x81
10882	3F Zeta DR 2x9 LED L605	20	2424	4000	>80	605x62x81
10877	3F Zeta DR 1x22 LED L1489	24.5	3126	4000	>80	1489x62x81
10881	3F Zeta DR 2x18 LED L1194	40	4851	4000	>80	1194x62x81
10880	3F Zeta DR 2x22 LED L1489	49	6253	4000	>80	1489x62x81

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10968	3F Zeta DR 1x18 LED DALI L1194	20	2425	4000	>80	1194x62x81
10967	3F Zeta DR 1x22 LED DALI L1489	24.5	3126	4000	>80	1489x62x81
10971	3F Zeta DR 2x18 LED DALI L1194	40	4851	4000	>80	1194x62x81
10970	3F Zeta DR 2x22 LED DALI L1489	49	6253	4000	>80	1489x62x81

EP maintained emergency wiring, 1hr duration with 24hrs recharge

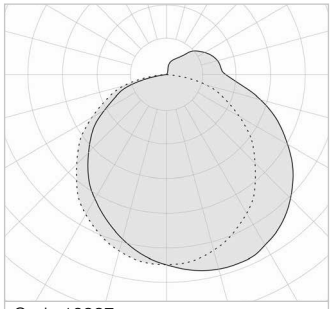
Code	Item	W	lm	K	CRI	L x A x H
10984	3F Zeta DR 1x22 LED EP L1489	25.5	3126	4000	>80	1489x62x81
10986	3F Zeta DR 2x22 LED EP L1489	50	6253	4000	>80	1489x62x81

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Zeta DR AS

850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10887

Asymmetric distribution.
Rectangular screen in self-extinguishing polycarbonate, UV stabilised, opal, with smooth outer surface.
Internal recuperator in white painted steel.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10886	3F Zeta DR AS 1x30 LED L1489	34	3451	4000	>80	1489x62x81
10887	3F Zeta DR AS 2x22 LED L1489	49	5096	4000	>80	1489x62x81

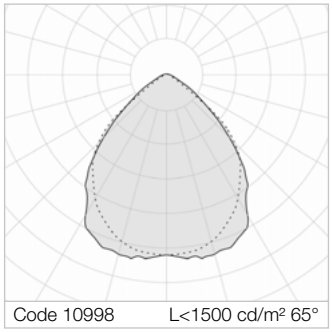
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10973	3F Zeta DR AS 1x30 LED DALI L1489	34	3451	4000	>80	1489x62x81
10974	3F Zeta DR AS 2x22 LED DALI L1489	49	5096	4000	>80	1489x62x81

3F Zeta DR UGR

EP | D | 850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10998 L<1500 cd/m² 65°

Controlled symmetric distribution.
1x - Average luminance <1500 cd/m² for radial angles >65°.
2x - Average luminance <3000 cd/m² for radial angles >65°.
Rectangular transparent polycarbonate diffuser.
Semi-specular aluminium internal louvre with prismatic methacrylate (PMMA) filter above the louvre blades for complete shielding of the louvre compartment.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10599	3F Zeta DR UGR 1x12 LED L605	14	1497	4000	>80	605x62x81
10598	3F Zeta DR UGR 2x9 LED L605	20	2078	4000	>80	605x62x81
10592	3F Zeta DR UGR 1x24 LED L1194	27	2786	4000	>80	1194x62x81
10998	3F Zeta DR UGR 1x30 LED L1783	34	3487	4000	>80	1783x62x81
10591	3F Zeta DR UGR 2x18 LED L1194	40	4159	4000	>80	1194x62x81
10997	3F Zeta DR UGR 2x22 LED L1783	49	5361	4000	>80	1783x62x81
11003	3F Zeta DR UGR 2x22/940 LED L1783	49	4396	4000	>90	1783x62x81

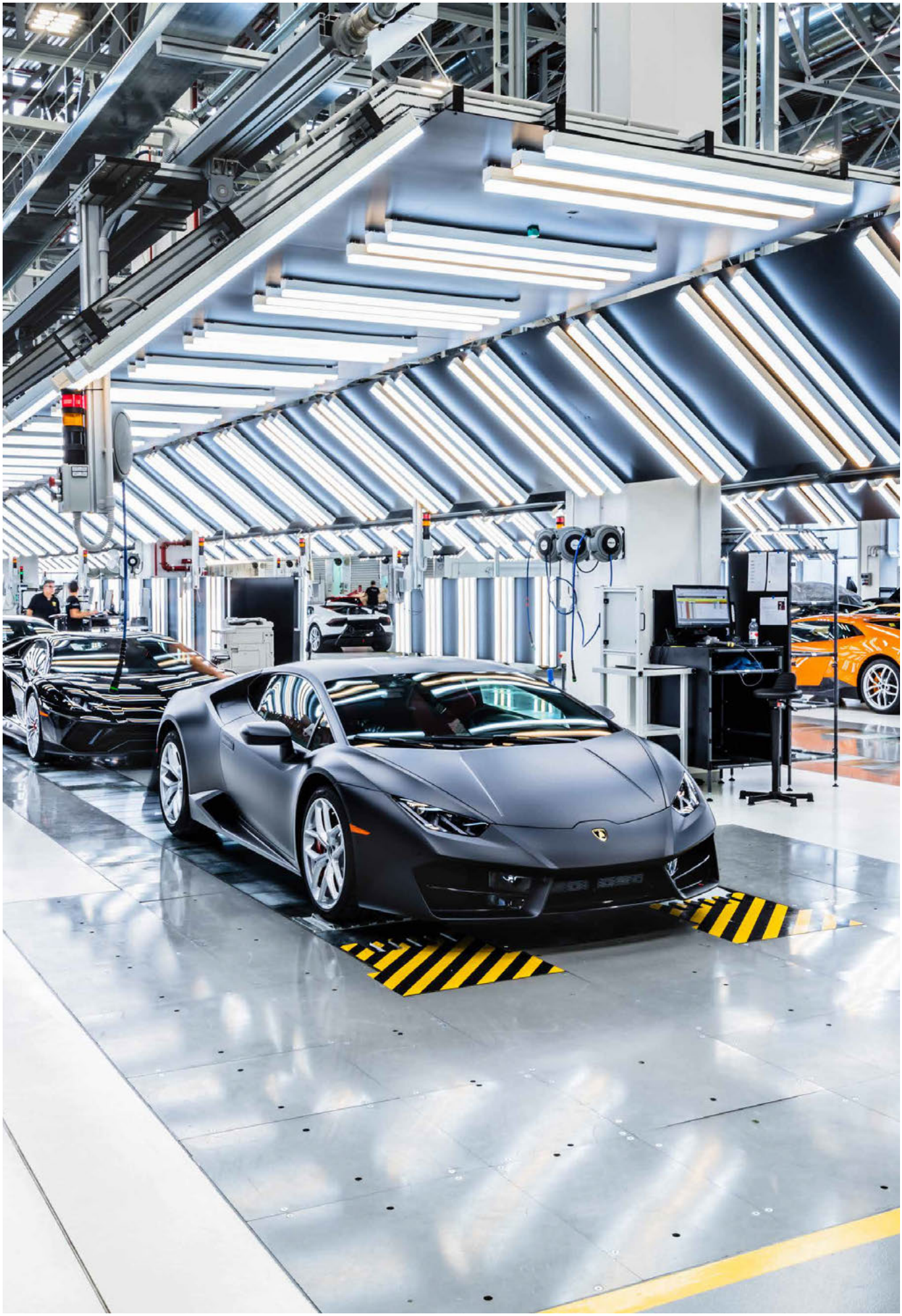
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10601	3F Zeta DR UGR 1x12 LED DALI L605	15	1497	4000	>80	605x62x81
10600	3F Zeta DR UGR 2x9 LED DALI L605	20	2078	4000	>80	605x62x81
10594	3F Zeta DR UGR 1x24 LED DALI L1194	27	2786	4000	>80	1194x62x81
11000	3F Zeta DR UGR 1x30 LED DALI L1783	34	3487	4000	>80	1783x62x81
10593	3F Zeta DR UGR 2x18 LED DALI L1194	40	4159	4000	>80	1194x62x81
10999	3F Zeta DR UGR 2x22 LED DALI L1783	49	5361	4000	>80	1783x62x81
11004	3F Zeta DR UGR 2x22/940 LED DALI L1783	49	4396	4000	>90	1783x62x81

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
11002	3F Zeta DR UGR 1x30 LED EP L1783	35	3487	4000	>80	1783x62x81
11001	3F Zeta DR UGR 2x22 LED EP L1783	50	5361	4000	>80	1783x62x81

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**









Belval Campus
Esch-sur-Alzette
Luxembourg



3F Zeta DT

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.
End caps in white polycarbonate.
Stainless steel mounting brackets with anti-slip screws.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

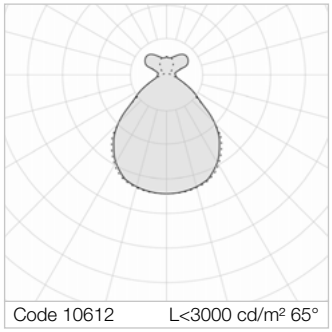
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- class II
- emergency versions

3F Zeta DT UGR

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10612 L<3000 cd/m² 65°

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10612	3F Zeta DT UGR 2x22 LED L1783	49	7261	4000	>80	1783x118x95
10613	3F Zeta DT UGR 2x15 LED L1489	34	4900	4000	>80	1489x118x95
10614	3F Zeta DT UGR 2x12 LED L1194	28	3915	4000	>80	1194x118x95
10615	3F Zeta DT UGR 2x6 LED L605	15	1953	4000	>80	605x118x95

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10616	3F Zeta DT UGR 2x22 LED DALI L1783	49	7261	4000	>80	1783x118x95
10617	3F Zeta DT UGR 2x15 LED DALI L1489	34	4900	4000	>80	1489x118x95
10618	3F Zeta DT UGR 2x12 LED DALI L1194	28	3915	4000	>80	1194x118x95
10619	3F Zeta DT UGR 2x6 LED DALI L605	15	1953	4000	>80	605x118x95

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
10620	3F Zeta DT UGR 2x22 LED EP L1783	50	7261	4000	>80	1783x118x95
10621	3F Zeta DT UGR 2x15 LED EP L1489	35	4900	4000	>80	1489x118x95
10622	3F Zeta DT UGR 2x12 LED EP L1194	29	3915	4000	>80	1194x118x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Zeta | Accessories



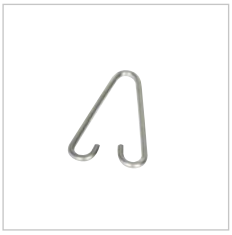
Code	Item
A0660	Suspension with adjustment - 1m
A0661	Suspension with adjustment - 2 m
A0662	Suspension with adjustment - 3 m
A0663	Suspension with adjustment - 4 m
A0664	Suspension with adjustment - 5 m
A0665	Suspension with adjustment - 6 m

Suspension with regulator, galvanised steel cable 1.5 mm diameter, load 15 kg.
Attention: each product requires two suspensions with regulator.



Code	Item
A02562	Caddy for exposed profiles of 24 mm

Caddy hook to create a point from which to suspend the system or the loads to false ceilings with visible profiles.
To be installed on exposed profiles (width 24 mm) of false ceilings. We recommend reinforcing the false-ceiling fixing at the point where the Caddy is to be installed. Supplied complete with nut and washer. The suspension must be purchased separately.



Code	Item
A20452	Stainless steel hook for chain

Hook to suspended luminaires to a chain.



Code	Item
A20433	Linear connecting element

Element to connect in hot-galvanised steel.



Code	Item
A0716	Coil galv. cable diam. 1.5mm - 100m The pack contains 100 metres.
A0717	Coil galv. cable diam. 1.5mm - 500m The pack contains 500 metres.
A0718	Coil galv. cable diam. 1.5mm - 1000m The pack contains 1000 metres.

Galvanised steel cable, diameter 1.5 mm, composed of 49 wires. 15 kg capacity (ratio 5:1).
These accessories must ALWAYS be used with one of the following codes: A20452 - A0714 - A0659.



Code	Item
A0714	Clamp 2 holes susp.- 100 pcs The pack contains 100 pieces.

Clamp in nickel-plated brass suitable for fixing and adjustment of galvanised steel wire (diameter 1,25 mm 1,5 mm - 2 mm), complete with locking screws. The 2 hole clamp allows to block and adjust the cable on a bearing element (part of the building) or on rounded eye bolt.



Code	Item
A0659	Adjustable clamp 2 holes - 10 pcs The pack contains 10 pieces.

Clamp suitable for fixing and adjustment of galvanised steel wire (diameter 1.5 mm), with quick adjustment through unlock buttons. The clamp with 2 holes allow to fix and adjust the cable on the carrier structural element (belonging to the building) or with eye screw fixing.
This accessory can be used with one of the following codes: A0716 - A0717 - A0718.



Code	Item
A20478	Anti-slip term. incli. 3F Linux

Safety bracket in white painted steel to secure lighting elements if installed vertically.
This accessory must ALWAYS be used with code A20448.



Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.



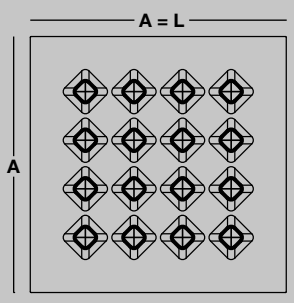
Code	Item
A0679	5 pole rectangular rose (no cable) WH

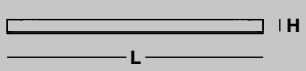
Electric supply with white polycarbonate case, internal bracket in galvanised steel.











Ospedale di Avigliana
Torino
Italia/Italy

3F Dìagon P

ILLUMINOTECHNICAL

Direct symmetric distribution.
Average luminance <3000 cd/m² for angles >65°.
Colour temperature available /830 - /840, /930 - /940.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

White painted frame.
Height only 40 mm.
Housing in hot-galvanised steel, painted in white polyester.
Honeycombed diagonal screen in white anti-glare polycarbonate.
Opal methacrylate (PMMA) rhomboid lenses with differentiated, engraved and prismatic surfaces for diffused, soft lighting and excellent visual comfort.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Quick connection.

INSTALLATION

Ceiling installation.

APPLICATIONS

Environments: staterooms, with VDTs, offices.
Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

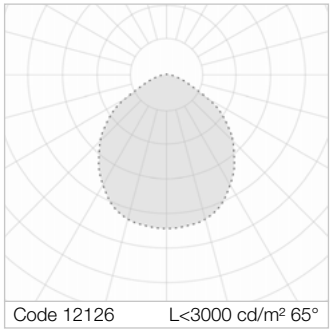
ON REQUEST

- suspension installation
- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- DALI Sensor version
- transparent lens versions
- emergency versions

3F Dìagon P Soft UGR

EP | D | 650°C | IP20 | 1J | IK06





Code 12126 L<3000 cd/m² 65°

Installation Interdistance Transv.D = 1.20 x hu - Long.D = 1.20 x hu.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
12126	3F Diagon P 25W/830 SOFT UGR 596x596	28	3532	3000	>80	596x596x40
12130	3F Diagon P 25W/840 SOFT UGR 596x596	28	3679	4000	>80	596x596x40
12134	3F Diagon P 39W/930 SOFT UGR 596x596	40	3890	3000	>90	596x596x40
12138	3F Diagon P 39W/940 SOFT UGR 596x596	40	4116	4000	>90	596x596x40

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
12127	3F Diagon P 25W/830 DALI SOFT UGR 596x596	28	3532	3000	>80	596x596x40
12131	3F Diagon P 25W/840 DALI SOFT UGR 596x596	28	3679	4000	>80	596x596x40
12135	3F Diagon P 39W/930 DALI SOFT UGR 596x596	40	3890	3000	>90	596x596x40
12139	3F Diagon P 39W/940 DALI SOFT UGR 596x596	40	4116	4000	>90	596x596x40

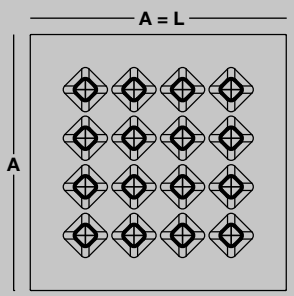
EP maintained emergency wiring, 1hr duration with 24hrs recharge

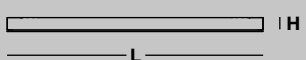
Code	Item	W	lm	K	CRI	L x A x H
12128	3F Diagon P 25W/830 EP SOFT UGR 596x596	29	3532	3000	>80	596x596x40
12132	3F Diagon P 25W/840 EP SOFT UGR 596x596	29	3679	4000	>80	596x596x40
12136	3F Diagon P 39W/930 EP SOFT UGR 596x596	41	3890	3000	>90	596x596x40
12140	3F Diagon P 39W/940 EP SOFT UGR 596x596	41	4116	4000	>90	596x596x40

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


MATERIALE
DEI
PAZIENTI







Ospedale di Avigliana
Torino
Italia/Italy

3F Dìagon P Tunable White

ILLUMINOTECHNICAL

Direct symmetric distribution.
Average luminance <3000 cd/m² for angles >65°.
The colour temperature can be adjusted between 2700 K and 6500 K.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

White painted frame.
Height only 40 mm.
Housing in hot-galvanised steel, painted in white polyester.
Honeycombed diagonal screen in white anti-glare polycarbonate.
Opal methacrylate (PMMA) rhomboid lenses with differentiated, engraved and prismatic surfaces for diffused, soft lighting and excellent visual comfort.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Cable with a DALI DT8 driver.
Quick connection.

INSTALLATION

Ceiling installation.

APPLICATIONS

Any environments requiring light which aims for the wellness of people.
Environments: staterooms, with VDTs, offices.
Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.

LIGHT MANAGEMENT

Tunable White products can be controlled with wired control systems (page 652) or 3F & Casambi (page 656).

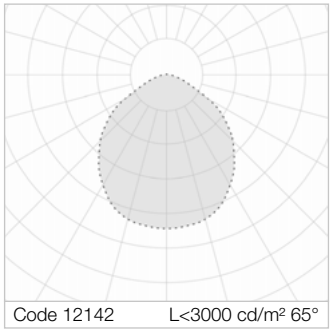
ON REQUEST

- suspension installation
- different power levels or colour rendering indices
- emergency versions

3F Dìagon P Soft UGR Tunable White

650°C | IP20 | 1J | IK06 | TW





Installation Interdistance Transv.D = 1.20 x hu - Long.D = 1.20 x hu.

DALI DT8 electronic wiring 230V-50/60Hz

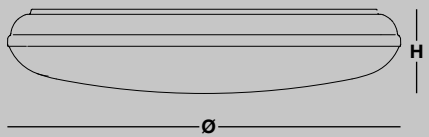
Code	Item	W	lm	K	CRI	L x A x H
12142	3F Diagon P 25W DT8 TW SOFT UGR 596x596	30 29 28	3567	2700 4000 6500	>80	596x596x40

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


1
USCITA DI EMERGENZA
IN CASO DI INCENDIO
NON USARE L'ASCENSORE
USARE LE SCALE



Scuola dell'infanzia
Cappella (CR)
Italia/Italy





3F Petra

ILLUMINOTECHNICAL

Diffuse distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED module.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in self-extinguishing V2 polycarbonate, UV stabilised, injection moulded, glazed.
Ecologic anti-aging injected sealing gasket.
Diffuser in opal methacrylate (PMMA), injection moulded.
Gear-tray reflector unit in aluminium, painted in white epoxy-polyester, fixed to the housing by quick-fastening steel devices, hinged opening.
Snug fit safety snap-lock clips for diffuser mounting in transparent polycarbonate, screwdriver opening.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Entry for power-supply cable at the top by means of sealing grommet or lateral after drilling.

INSTALLATION

Wall or ceiling installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: architectural, transit areas, lobbies or waiting rooms, stairwells.
Environments where ceiling indirect lighting and direct lighting supply a visual comfort.
Virtually in all environments compatibly with the use of any chemicals which could compromise the use of plastic materials.
Completely insect and dust proof.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

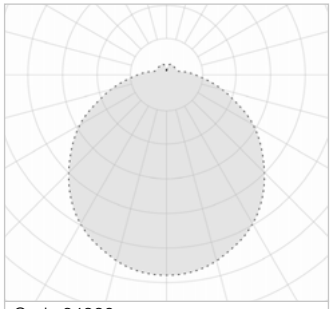
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

3F Petra

EP | D | 650°C | IP64 | IP65 | 0,2J | IK02 | Driver/LED SELV | HACCP





Code 34330

ø300-380: IP64.
ø620: IP65.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
34229	3F Petra OP 300 12W LED	14	1660	4000	>80	300x120
34234	3F Petra OP 300 12W/940 LED	14	1361	4000	>90	300x120
34330	3F Petra OP 380 22W LED	25	2978	4000	>80	380x117
34335	3F Petra OP 380 22W/940 LED	25	2442	4000	>90	380x117
34407	3F Petra OP 620 50W LED	53	5955	4000	>80	620x134

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
34230	3F Petra OP 300 12W LED DALI	14	1660	4000	>80	300x120
34235	3F Petra OP 300 12W/940 LED DALI	14	1361	4000	>90	300x120
34331	3F Petra OP 380 22W LED DALI	25	2978	4000	>80	380x117
34336	3F Petra OP 380 22W/940 LED DALI	25	2442	4000	>90	380x117
34408	3F Petra OP 620 50W LED DALI	52	5955	4000	>80	620x134

EP maintained emergency wiring, 1hr duration with 24hrs recharge

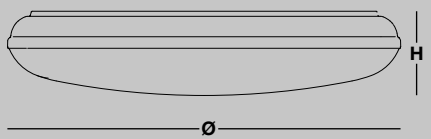
Code	Item	W	lm	K	CRI	ø x H
34231	3F Petra OP 300 12W LED EP	15	1660	4000	>80	300x120
34236	3F Petra OP 300 12W/940 LED EP	15	1361	4000	>90	300x120
34332	3F Petra OP 380 22W LED EP	26	2978	4000	>80	380x117
34337	3F Petra OP 380 22W/940 LED EP	26	2442	4000	>90	380x117
34409	3F Petra OP 620 50W LED EP	54	5955	4000	>80	620x134

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**





University of Padua
Padova
Italia/Italy





3F Petra Sensor

ILLUMINOTECHNICAL

Diffuse distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED module.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in self-extinguishing V2 polycarbonate, UV stabilised, injection moulded, glazed.
Ecologic anti-aging injected sealing gasket.
Diffuser in opal methacrylate (PMMA), injection moulded.
Gear-tray reflector unit in aluminium, painted in white epoxy-polyester, fixed to the housing by quick-fastening steel devices, hinged opening.
Snug fit safety snap-lock clips for diffuser mounting in transparent polycarbonate, screwdriver opening.

ELECTRICAL

In compliance with EN 60598-1.
Entry for power-supply cable at the top by means of sealing grommet or lateral after drilling.
Sensor mode: turns on and off depending on persons present.
Integrated presence sensor with ON/OFF function.

INSTALLATION

Wall or ceiling installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: architectural, transit areas, lobbies or waiting rooms, stairwells.
Environments where ceiling indirect lighting and direct lighting supply a visual comfort.
Virtually in all environments compatibly with the use of any chemicals which could compromise the use of plastic materials.
Completely insect and dust proof.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The products use 3F Sensor technology (page 634).

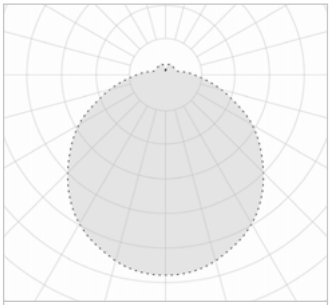
ON REQUEST

- 3F Petra OP 620 50W Sensor
- different power levels, colour rendering indices and colour temperatures
- emergency versions

3F Petra Sensor

CE | SAFE FLICKER | D | 650°C | IP64 | 0,2J | IK02 | Driver/LED SELV | HACCP



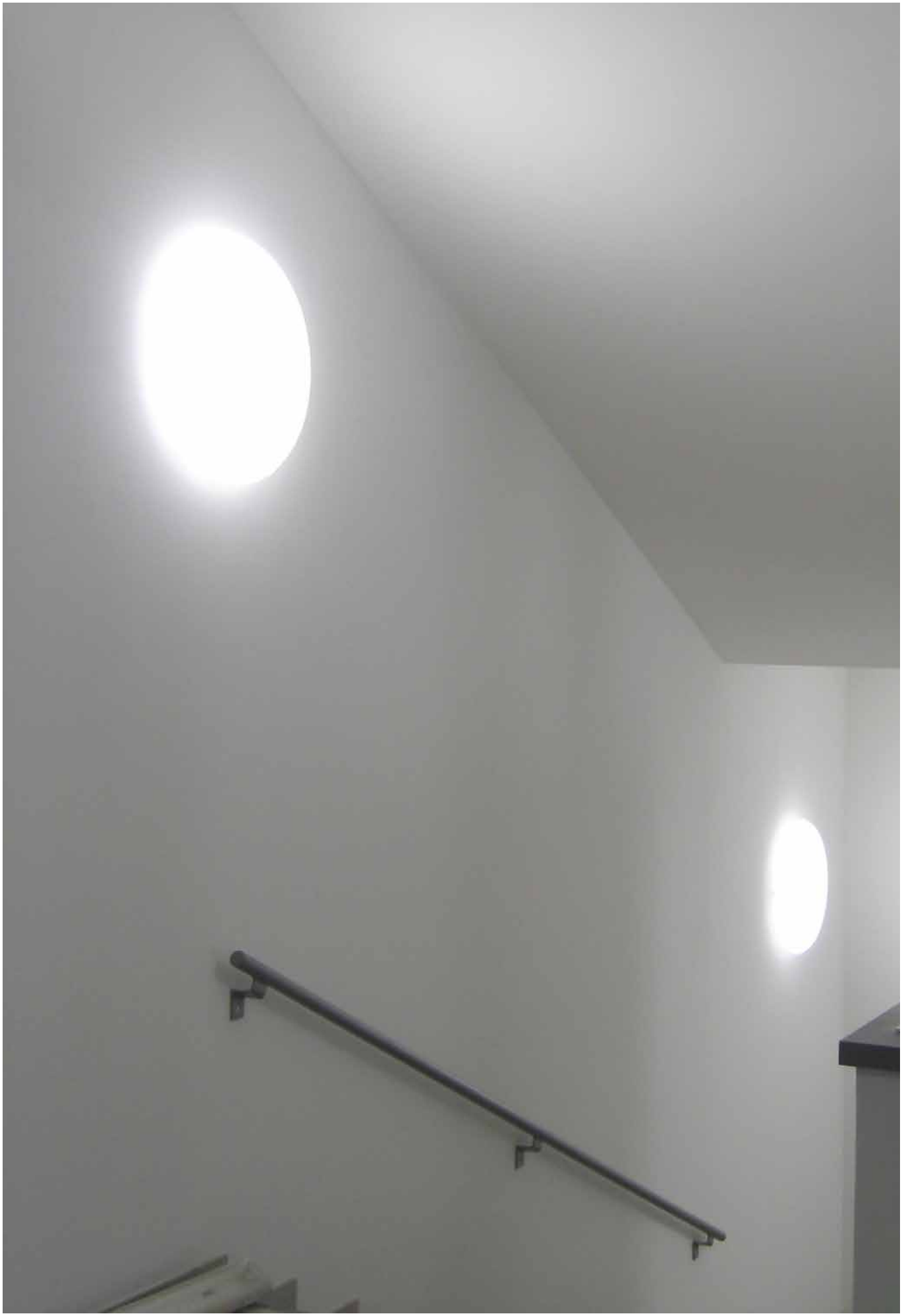


Code 34334

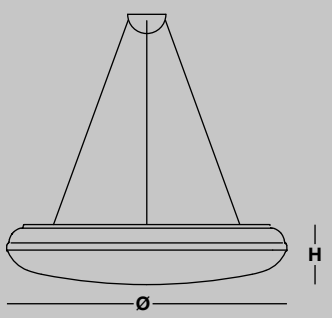
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
34233	3F Petra OP 300 12W LED Sensor	15	1660	4000	>80	300x120
34334	3F Petra OP 380 22W LED Sensor	26	2978	4000	>80	380x117

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**






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3F Petra Suspended

ILLUMINOTECHNICAL

Diffuse distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED module.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in self-extinguishing V2 polycarbonate, UV stabilised, injection moulded, glazed.
Ecologic anti-aging injected sealing gasket.
Diffuser in opal methacrylate (PMMA), injection moulded.
Gear-tray reflector unit in aluminium, painted in white epoxy-polyester, fixed to the housing by quick-fastening steel devices, hinged opening.
Snug fit safety snap-lock clips for diffuser mounting in transparent polycarbonate, screwdriver opening.
Adjustable suspension with Rose in white polycarbonate, with stainless steel cables, 2 m long.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Entry for power-supply cable at the top by means of double-membrane sealing grommet, or side-entry after drilling.
Transparent 5x1.5 mm² power-supply cable.

INSTALLATION

Suspension installation.

APPLICATIONS

Environments: transit areas, great halls.
Environments where ceiling indirect lighting and direct lighting supply a visual comfort.
Virtually in all environments compatibly with the use of any chemicals which could compromise the use of plastic materials.
Completely insect and dust proof.

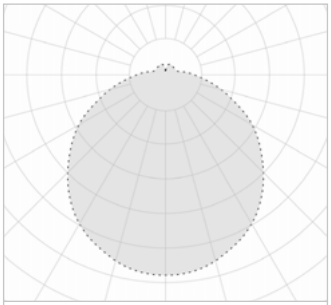
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: dimmable, CLO (page 662)
- emergency versions

3F Petra Suspended

650°C | IP65 | 0,2J | IK02 | Driver/LED SELV





Code 34411

ON/OFF electronic wiring 230V-50/60Hz

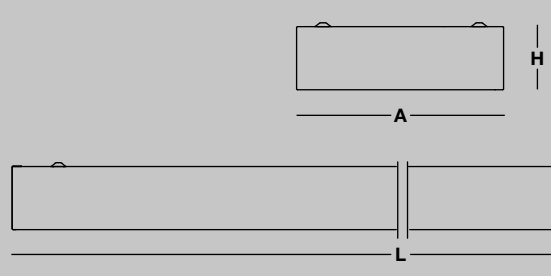
Code	Item	W	lm	K	CRI	ø x H
34411	3F Petra OP 620 50W LED SO	53	5955	4000	>80	620x134

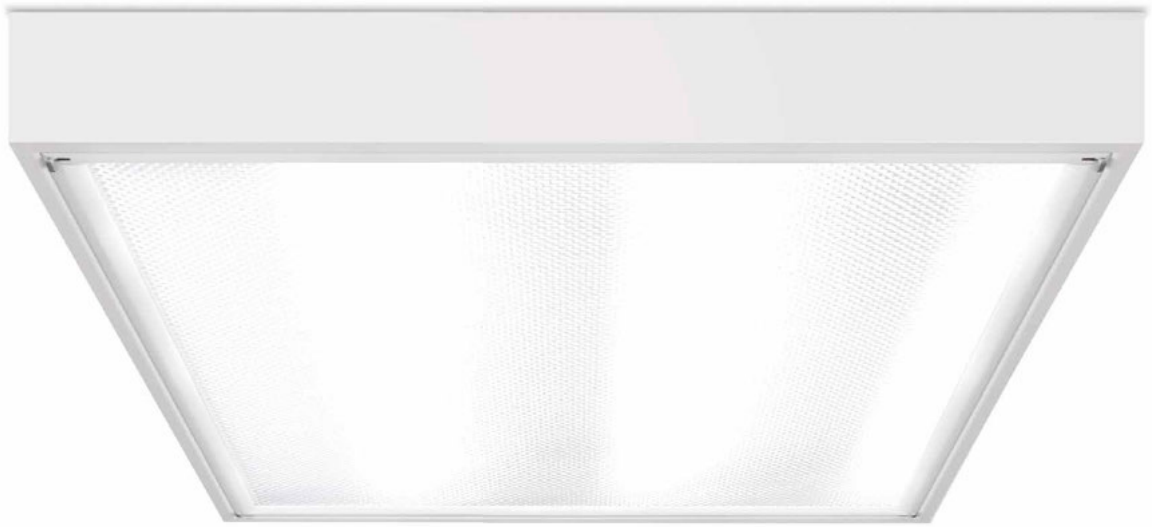
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**








H
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L



P 200 IP54

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.

10W version
Colour initial tolerance (MacAdam): SDCM 2.
24W version
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Ceiling mounted installation.

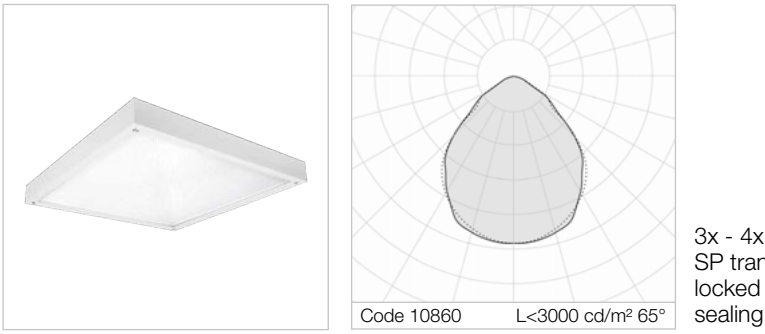
APPLICATIONS

Environments: sterilized, aseptic.
Particularly suitable for environments where protection against water and dust is required, such as hospitals, pharmaceutical and chemical laboratories.
In environments with foodstuffs or machines with moving parts, with considerable sudden temperature changes, and in general in any environments requiring total protection against falling fragments, use the P 200 LED IP54 SP PC version (polycarbonate diffuser) available on request.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.
SP version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- diffuser in SMP microprismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- housing in different RAL colours
- wiring: dimmable, CLO (page 662)
- emergency versions

P 200 IP54 SP



3x - 4x - Average luminance <3000 cd/m² for radial angles >65°. SP transparent methacrylate (PMMA) diffuser, prismatic, anti-glare, locked to the pre-painted white aluminium perimeter frame with sealing gasket, hinged opening.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10859	P 203x10W LED SP IP54 596x596	34	4142	4000	>80	596x596x82
10860	P 204x10W LED SP IP54 596x596	45	5474	4000	>80	596x596x82
10856	P 202x24W LED SP IP54 196x1231	54	6567	4000	>80	1231x196x82

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

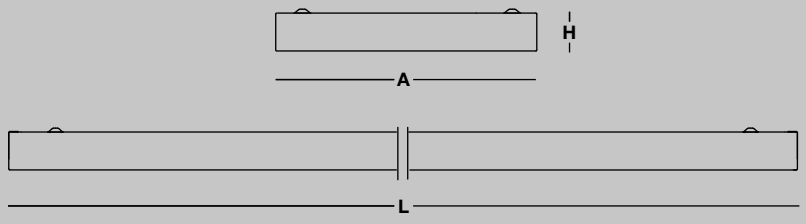
P 200 | Accessories

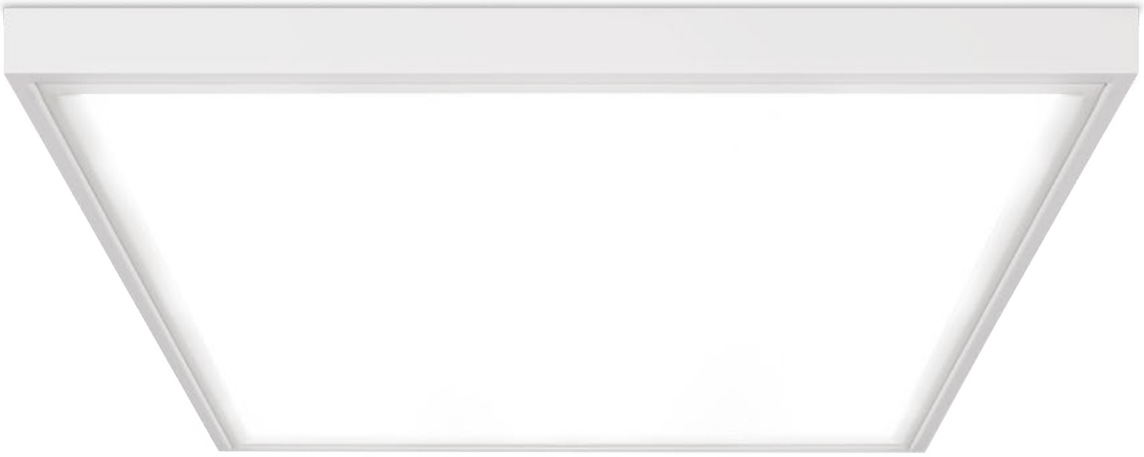


Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.
Accessory compatible with 196 mm wide versions.


6
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WC


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P 250 Diffused Light

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B20): 50000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

LGS version
Average luminance <1500 cd/m² for radial angles >65°.

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Height only 55 mm.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Ceiling mounted installation.

APPLICATIONS

Particularly suitable for low height environments.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LGS version
Environments: with video terminals, representative areas, offices. Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.

OP version
Environments where soft diffuse light is required for optimal visual comfort and total shielding of the source.

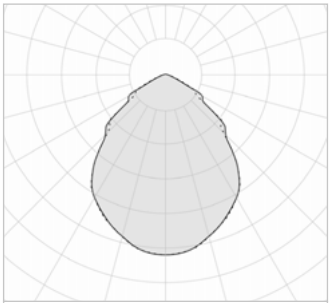
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- diffuser in SMP microprismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- housing in different RAL colours
- emergency versions

P 250 Diffused Light LGS

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 10048 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare, locked to the white painted aluminium perimeter frame, hinged opening.
Anti-glare opal polycarbonate filter for brightness uniformity.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10048	P 250 28W LED LGS 596x596	31	3707	4000	>80	596x596x55

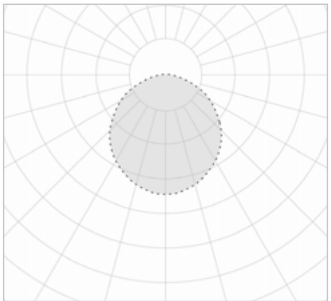
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10049	P 250 28W LED DALI LGS 596x596	31	3707	4000	>80	596x596x55

P 250 Diffused Light OP

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code 11672

OP opal methacrylate (PMMA) flat diffuser, anti-glare, locked to the pre-painted white aluminium perimeter frame, hinged opening.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10051	P 250 28W LED OP 596x596	31	4083	4000	>80	596x596x55

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
10053	P 250 28W LED DALI OP 596x596	31	4083	4000	>80	596x596x55

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

P 250 | Accessories

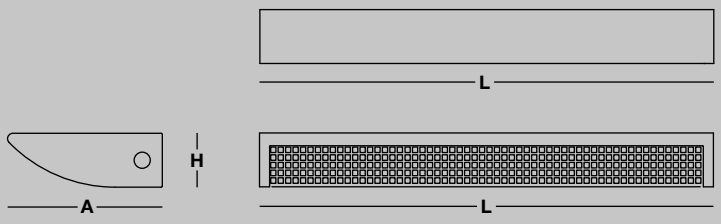


Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.
Accessory compatible with 196 mm wide versions.



Polytechnic of Turin
Torino
Italia/Italy





Mira Wall

ILLUMINOTECHNICAL

Asymmetric indirect distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester with reticular slots for high direct light emission.
Flow recuperator in specular aluminium with superficial titanium-magnesium treatment.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Wall installation.
Thanks to the full compatibility of dimensions, fixing spacing and accessories with the previous fluorescent version, this product becomes the perfect solution for updating existing installations.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: transit areas, lobbies or waiting rooms, corridors, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

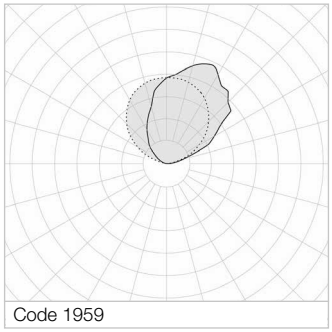
The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

ON REQUEST

- housing in different RAL colours
- wiring: dimmable, CLO (page 662)
- emergency versions

Mira Par Ind





Code 1959

Indirect lighting.
Upper closing diffuser in selfextinguishing V2 transparent polycarbonate, UV stabilised.

ON/OFF electronic wiring 230V-50/60Hz

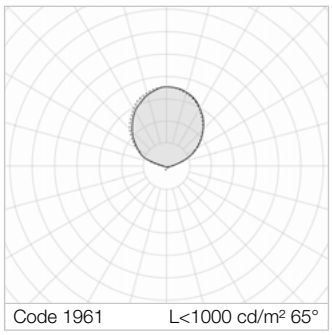
Code	Item	W	lm	K	CRI	L x A x H
1959	MIRA PAR LED 4x12W IND L675	56	6840	4000	>80	675x230x80

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1960	Mira Par LED 4x12W DALI IND L675	54	6840	4000	>80	675x230x80

Mira Par Dec





Code 1961 L<1000 cd/m² 65°

Average luminance <1000 cd/m² for radial angles >65°.
Indirect and direct decorative lighting.
Body with reticular slots.
Opal acrylic upper diffuser.
Opal polycarbonate Inlay Cover for perforated housings.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1961	MIRA PAR LED DE 4x12W L675	56	6699	4000	>80	675x230x80

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
1963	Mira Par LED DE 4x12W DALI L675	54	6699	4000	>80	675x230x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Mira | Accessories



Code	Item
A0090	Bracket/5-pole terminal block

5-pole terminal block, connection capacity from 2.5 to 6 mm², on galvanised steel bracket for cascade connection lines.

/ catalogue

_Recessed luminaires

/ 3F Filippi

3F Eldorado

Page 124

3F Eldorado Frame
Page 130

3F Eldorado Twin
Page 134

3F Six R

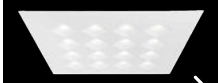
Page 138

3F Six R
Page 142

3F LED Panel

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3F LED Panel
Page 148

3F Dìagon

Page 152

3F Dìagon Lay-in installation
Page 162

3F Dìagon Lay-in installation Tunable White
Page 168

3F Dìagon Pull-up installation
Page 172

L 320

Page 178

L 320
Page 178

L 340

Page 190

L 340 Diffused Light
Page 190

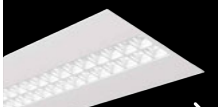
L 340 Lite
Page 198

L 340 Tunable White
Page 202

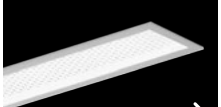
L 350

Page 206

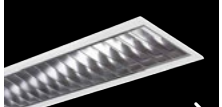
L 350
Page 206

L 360

Page 212

L 360
Page 212

L 490

Page 216

L 490
Page 216

L 560

Page 220

L 560
Page 220

L 600

Page 226

L 600 Diffused Light
Page 226

L 650

Page 234

L 650 Diffused Light
Page 234

3F Reno

Page 240

3F Reno White
Page 248

3F Reno Black
Page 258

Lucequadro

Page 266

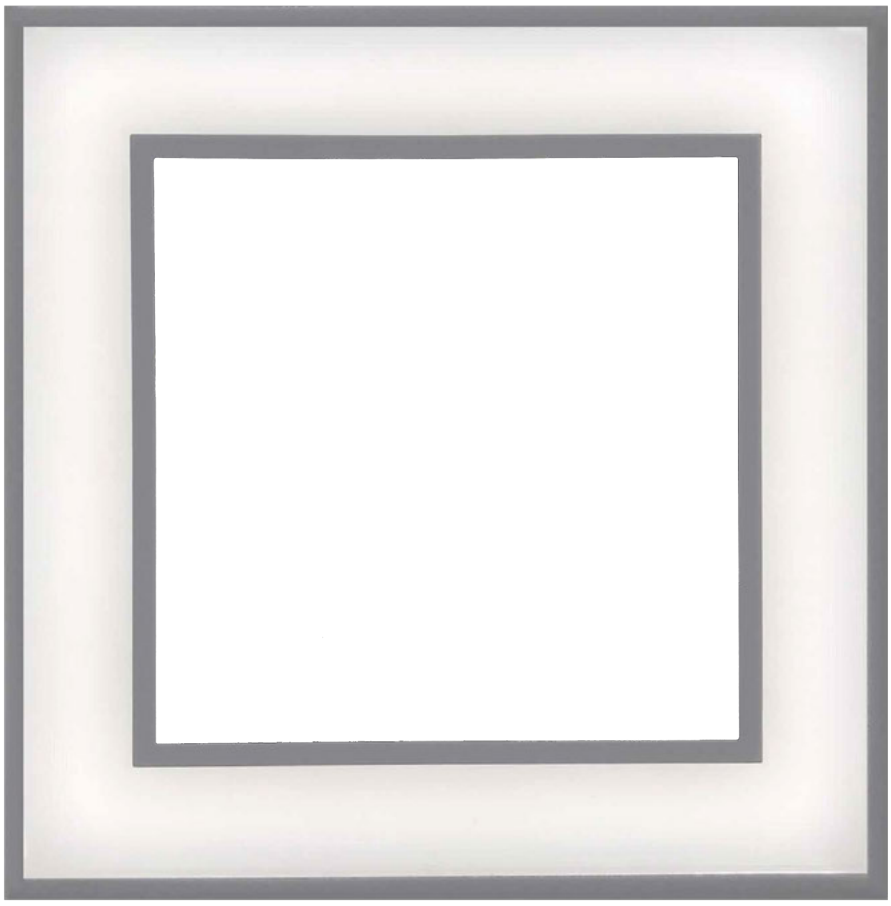
Lucequadro
Page 266



/ 3F Eldorado

Facing with increasingly careful investment by those building or renovating workspaces, we have developed **3F Eldorado**, an open platform capable of easily integrating extra products and functions.

3F Eldorado is equipped with state-of-the-art sources and a prismatic diffuser that can light environments in an effective way and minimise the level of glare as required by the most stringent international regulations.



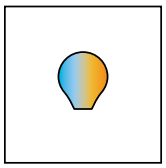
3F Eldorado
Frame

A **flexible** solution.

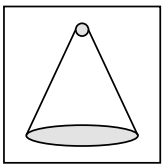
Most of the rooms are lit in a static way, but in an attempt to reproduce the dynamism of natural light (due to the weather and the changing seasons), recent studies have shown that it is possible to significantly increase the perceived quality of space in the which one lives or works thanks to the right mix between directed light and diffused light.

To obtain a level of visual comfort, it is necessary to “break” this static with very clear perceptive elements such as color variations, photometric distribution and irregular spatial light distributions.

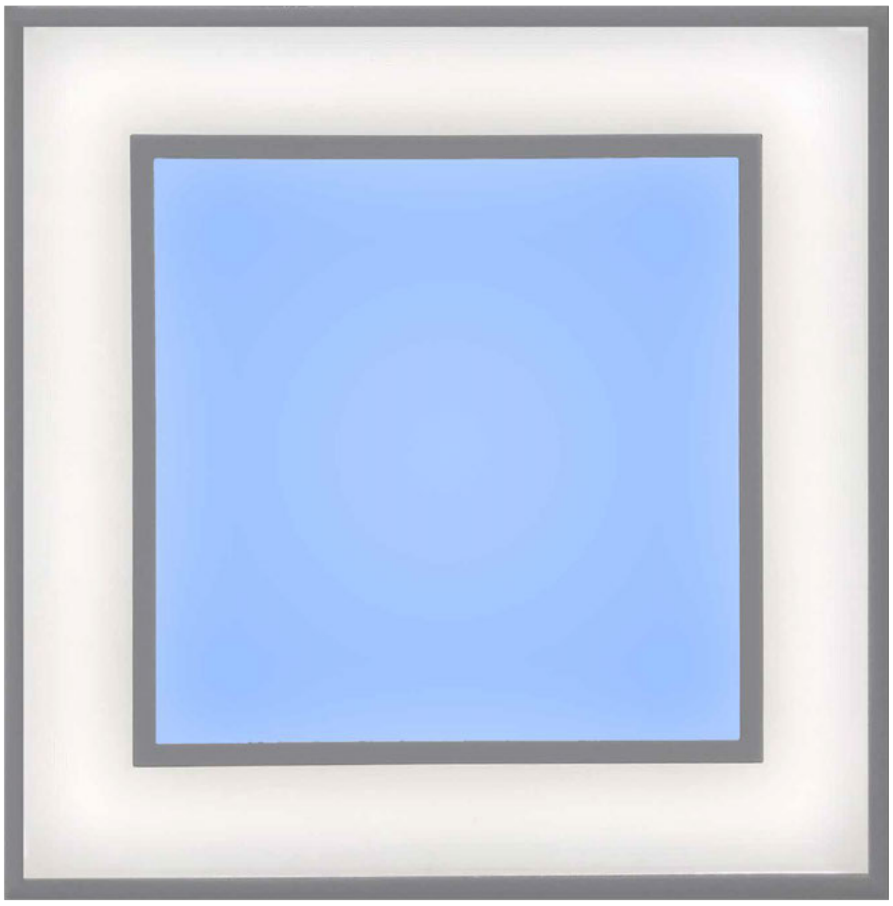
3F Eldorado offers an unprecedented opportunity: to be able to equip the central part with different types of sources and lighting fixtures, adapting in an extraordinary way to the mood of the context in which it is inserted:



Colour temperature variable over time



Integration of other appliances



3F Eldorado
Twin

Product customization

Emergency lighting

Diffuse light

Devices integration

Customizable central screen printing

3F Eldorado
Twin

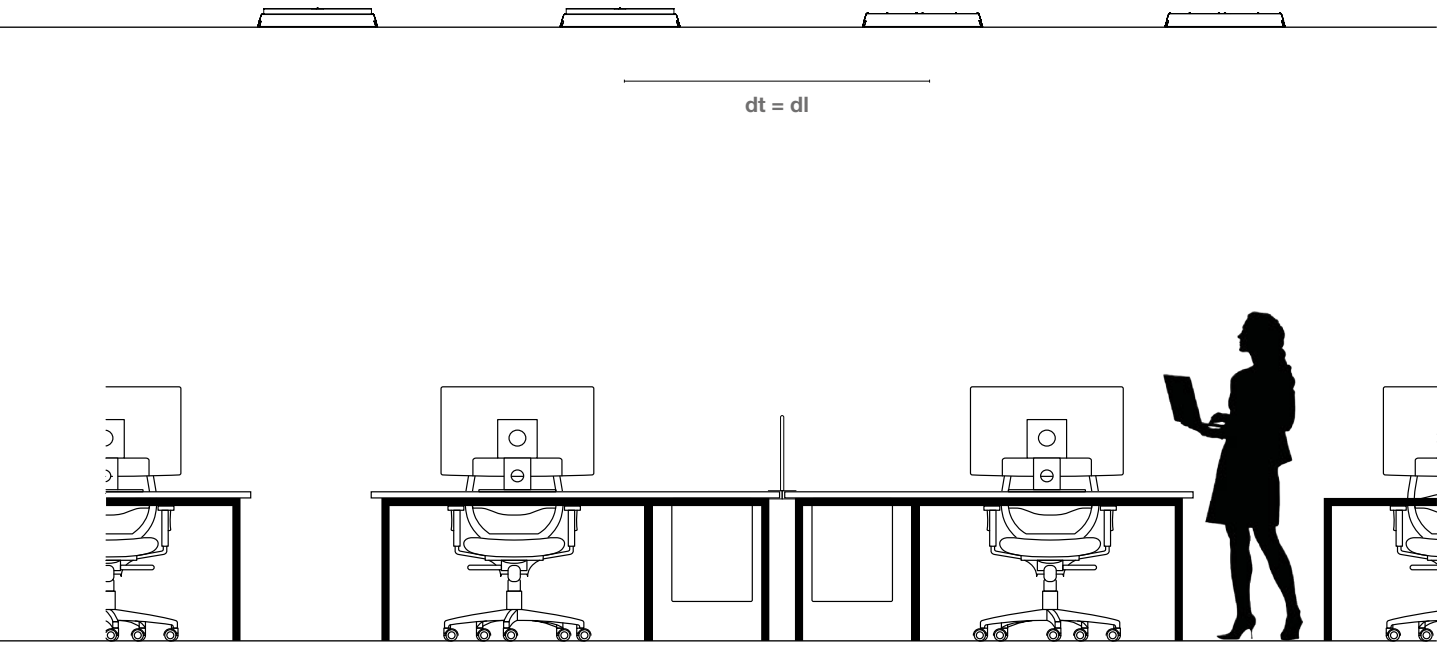
3F Eldorado
Frame



Range

3F Eldorado

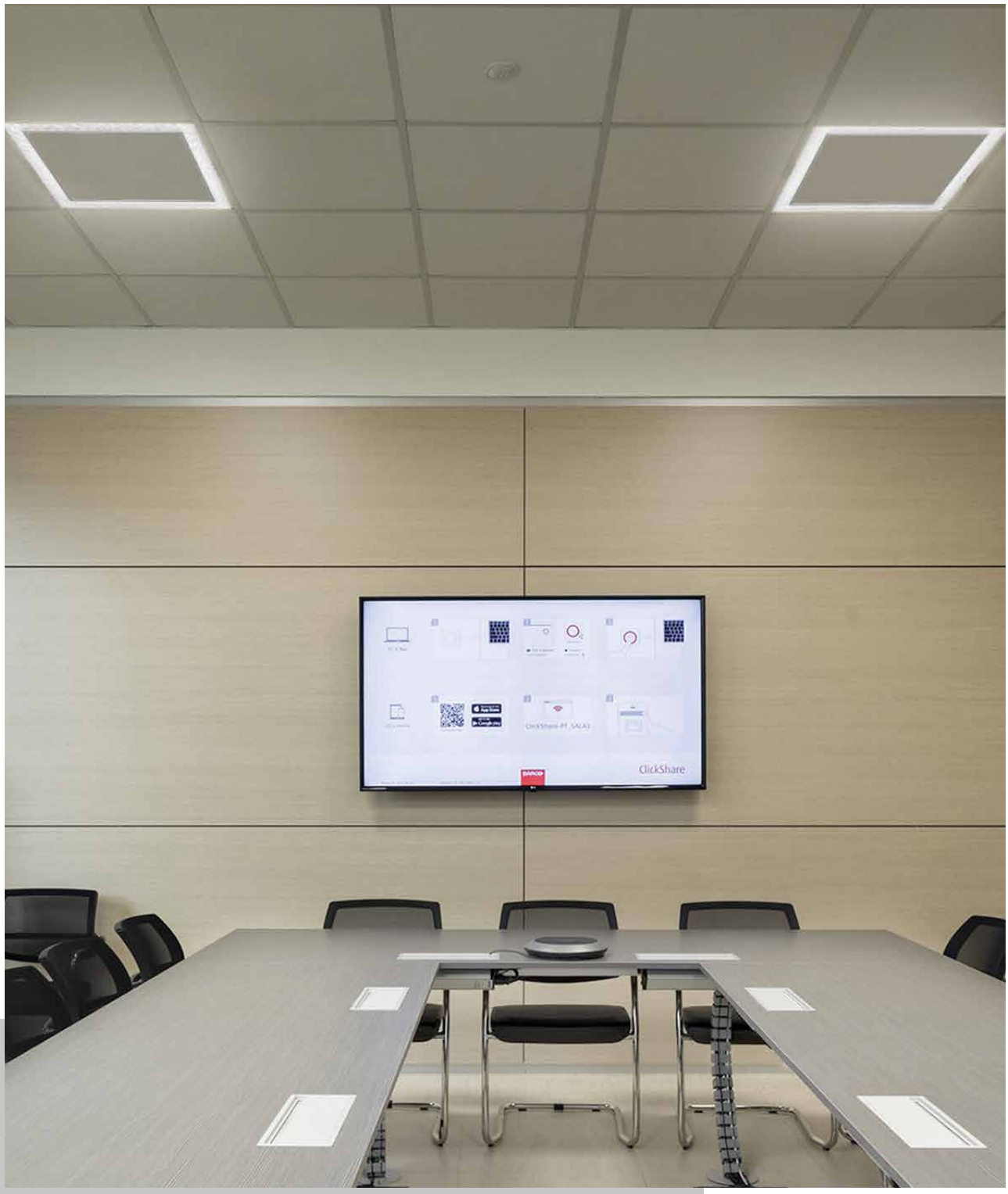
	W	lm	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Eldorado Frame	33 - 45	3251 - 4256	/840	DALI	lay-in	1,08 x 1,08	596 x 596 x 65 621 x 621x 65



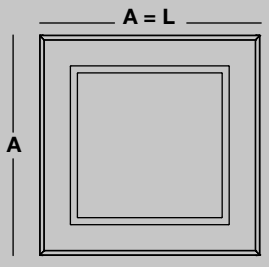
Range

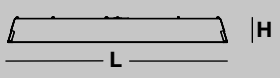
3F Eldorado

	W	lm	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Eldorado	67 - 78	5940 - 6945	/840	DALI	lay-in	1,20 x 1,20	596 x 596 x 95
Twin							621 x 621x 95


ClickShare




A = L
A


H
L

3F Eldorado Frame

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.
Central part in hot-galvanised steel, painted in white polyester.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Lay-in installation.

APPLICATIONS

Any environment in which flexibility of lighting and customisation is required, capable of integrating perfectly into the areas and furnishings of different workspaces.
Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.
Environments where dynamic, soft and diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

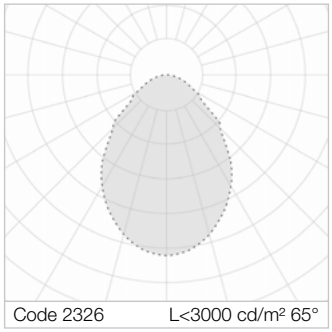
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- emergency versions
- different central screens and screen prints
- equippable central covers

3F Eldorado Frame White LGS

650°C | IP40 | 0,2J | IK02 | Driver/LED SELV



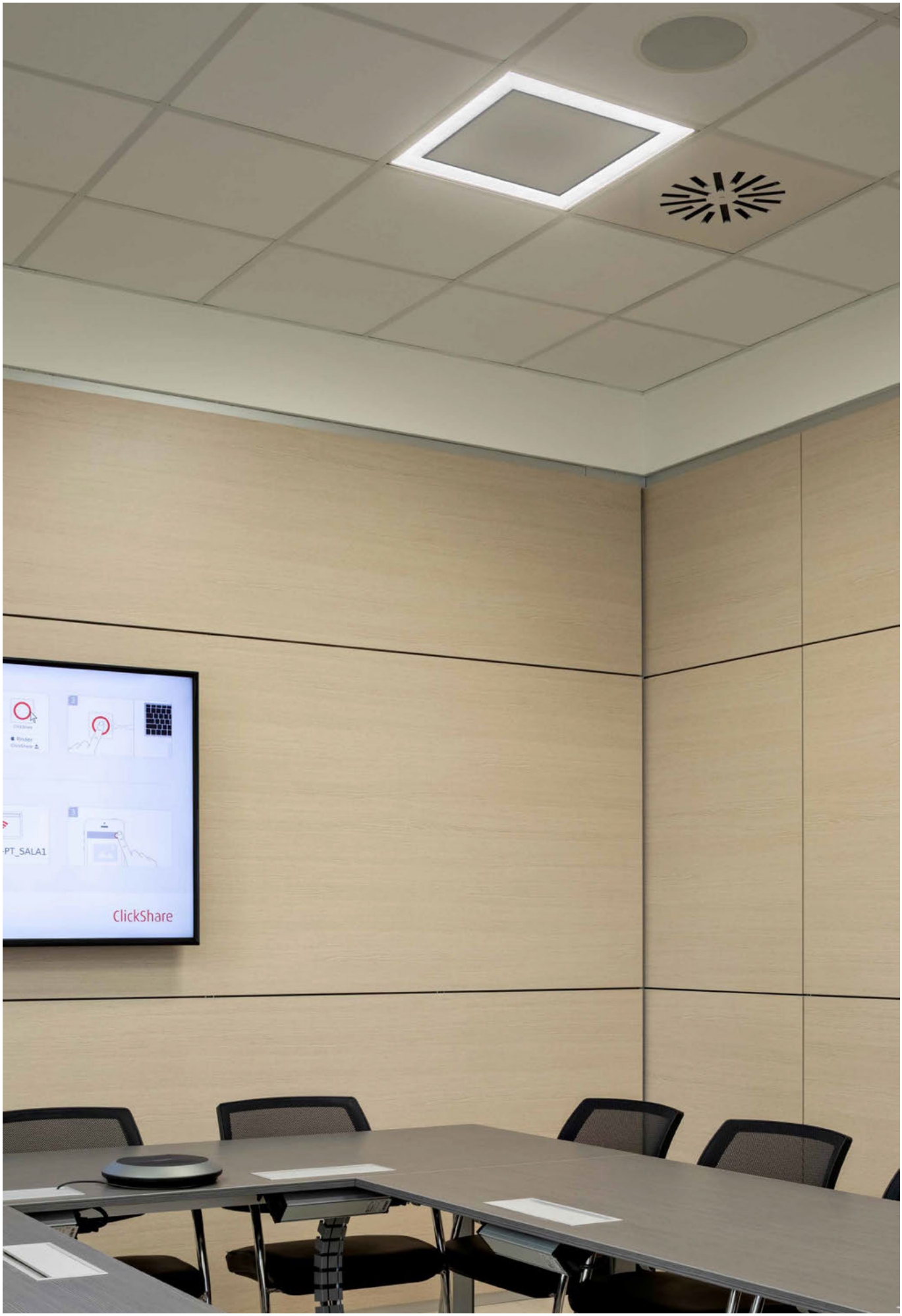


Code 2326 L<3000 cd/m² 65°

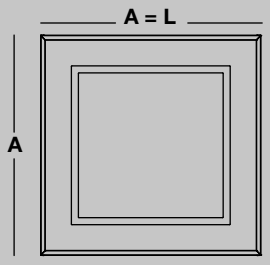
DALI electronic wiring 230V-50/60Hz

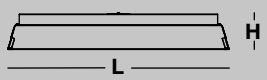
Code	Item	W	lm	K	CRI	L x A x H
2326	3F Eldorado 29/840 DALI LGS 596	33	3251	4000	>80	596x596x65
2327	3F Eldorado 39/840 DALI LGS 596	45	4256	4000	>80	596x596x65
2328	3F Eldorado 29/840 DALI LGS 621	33	3251	4000	>80	621x621x65
2329	3F Eldorado 39/840 DALI LGS 621	45	4256	4000	>80	621x621x65

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


PT_SALA1
ClickShare




A = L
A


H
L

3F Eldorado Twin

ILLUMINOTECHNICAL

Symmetrical distribution controlled and diffused according to the type of use.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared or linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
LGS micro-prismatic flat perimeter diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.
OP flat screen in the central part in opal methacrylate (PMMA), anti-glare.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Twin-circuit.

INSTALLATION

Lay-in installation.

APPLICATIONS

Any environment in which flexibility of lighting and customisation is required, capable of integrating perfectly into the areas and furnishings of different workspaces.
Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.
Environments where dynamic, soft and diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

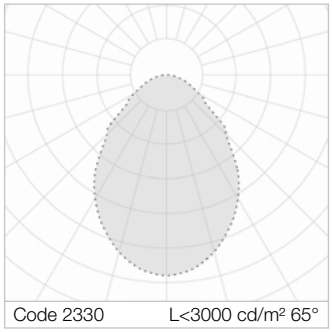
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- emergency versions
- different central screens and screen prints

3F Eldorado Twin White LGS + OP

650°C IP40 0,2J IK02 Driver/LED SELV





Code 2330 L<3000 cd/m² 65°

Dual lighting functionality.

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
2330	3F Eldorado 29+30/840 DALI LGS+OP 596	67	5940	4000	>80	596x596x95
2331	3F Eldorado 39+30/840 DALI LGS+OP 596	78	6945	4000	>80	596x596x95
2332	3F Eldorado 29+30/840 DALI LGS+OP 621	67	5940	4000	>80	621x621x95
2333	3F Eldorado 39+30/840 DALI LGS+OP 621	78	6945	4000	>80	621x621x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Eldorado | Accessories



Code	Item
A0579	Safety wire with brackets

Anti-fall safety cable with pair of brackets for fixing the housing to the building structure. Length 2.5 m.


GELATI
MISTER POLARETTO

/ 3F Six R

3F Six R is the new recessed luminaire particularly suitable for shopping centres, exhibition areas and warehouses with important installation heights.

Thanks to the use of six methacrylate (PMMA) optical lenses installed on the fixture is it possible to obtain customised luminous distribution by choosing from the three types of optics available: Wide, Medium and UGR.

The latter configuration, designed to be used in environments with more stringent vision requirements or where there are VDTs, uses lenses with controlled luminance and a UGR<19 glare index.

3F Six R is available in a version with ON/OFF wiring or DALI control to manage the fixture and the energy consumption of the entire lighting system.

3F Six R
Ipercoop Centro Borgo
Bologna, Italy

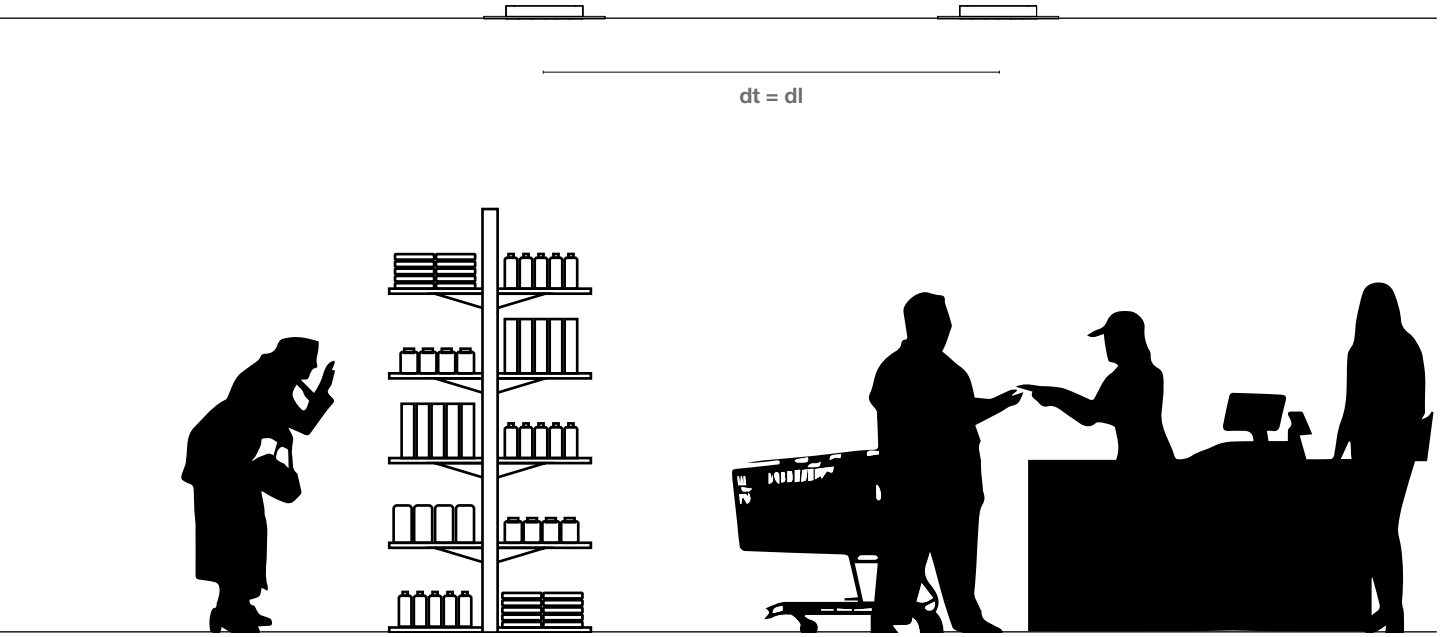
3F Six R



Range

3F Six R

	W	lm	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Six Ampio	55,5 - 83	9530 - 13622	/840	ON/OFF D2	lay-in	1,39 x 1,43	596 x 596 x 70
3F Six Medio	55,5 - 83	9205 - 13157	/840	ON/OFF D2	lay-in	1,16 x 1,19	596 x 596 x 70

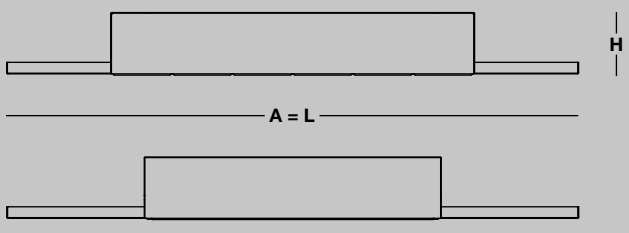


Range

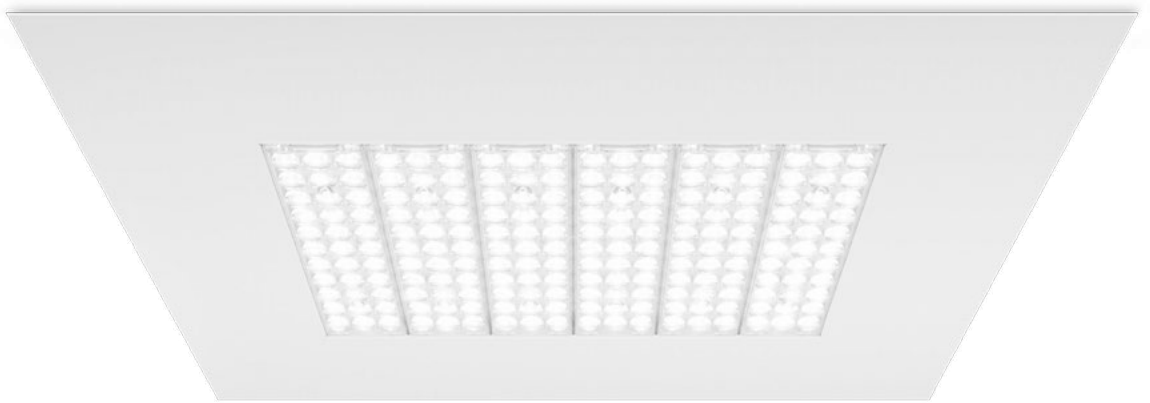
3F Six R

	W	lm	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Six R UGR	40	6221	/840	ON/OFF D2	lay-in	1,39 x 1,30	596 x 596 x 70





Ipercoop Centro Borgo
Bologna
Italia/Italy



3F Six R

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Methacrylate (PMMA) lenses with external flat surface.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Power cable type H05Z1Z1-F 3-5x1.5 mm² that protrudes by 1 m with sheared ends.

INSTALLATION

Lay-in installation.

APPLICATIONS

Environments: commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
Environments that need luminance control.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

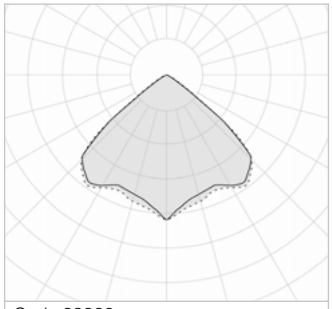
ON REQUEST

- different light distributions
- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- different dimensions
- emergency versions

3F Six R Wide

CE | D | 650°C | IP40 | 1J | IK06 | HACCP





Code 22230

Wide distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22230	3F Six R 85/840 WIDE 596x596	83	13622	4000	>80	596x596x70
22231	3F Six R 70/840 WIDE 596x596	67	11050	4000	>80	596x596x70
22232	3F Six R 60/840 WIDE 596x596	55.5	9530	4000	>80	596x596x70

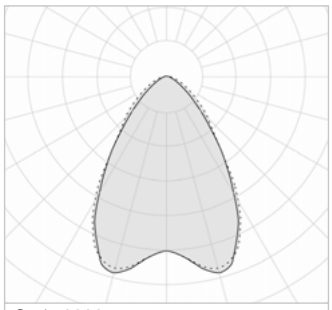
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22233	3F Six R 85/840 DALI WIDE 596x596	83	13622	4000	>80	596x596x70
22234	3F Six R 70/840 DALI WIDE 596x596	67	11050	4000	>80	596x596x70
22235	3F Six R 60/840 DALI WIDE 596x596	55.5	9530	4000	>80	596x596x70

3F Six R Medium

CE | D | 650°C | IP40 | 1J | IK06 | HACCP





Code 22237

Medium distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22237	3F Six R 85/840 MEDIUM 596x596	83	13157	4000	>80	596x596x70
22238	3F Six R 70/840 MEDIUM 596x596	67	10673	4000	>80	596x596x70
22239	3F Six R 60/840 MEDIUM 596x596	55.5	9205	4000	>80	596x596x70

DALI electronic wiring 230V-50/60Hz

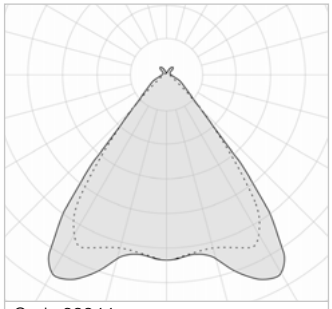
Code	Item	W	lm	K	CRI	L x A x H
22240	3F Six R 85/840 DALI MEDIUM 596x596	83	13157	4000	>80	596x596x70
22241	3F Six R 70/840 DALI MEDIUM 596x596	67	10673	4000	>80	596x596x70
22242	3F Six R 60/840 DALI MEDIUM 596x596	55.5	9205	4000	>80	596x596x70

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Six R UGR

650°C | IP40 | 1J | IK06 | HACCP





Code 22244

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22244	3F Six R 40/840 UGR 596x596	40	6621	4000	>80	596x596x70

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22245	3F Six R 40/840 DALI UGR 596x596	40	6621	4000	>80	596x596x70

3F Six R | Accessories



Code	Item
A0798	621x621 frame + brackets

Adapter frame in white-painted steel, for installing luminaries with dimensions of 596x596 mm for pull-up installations on plasterboard false ceilings.



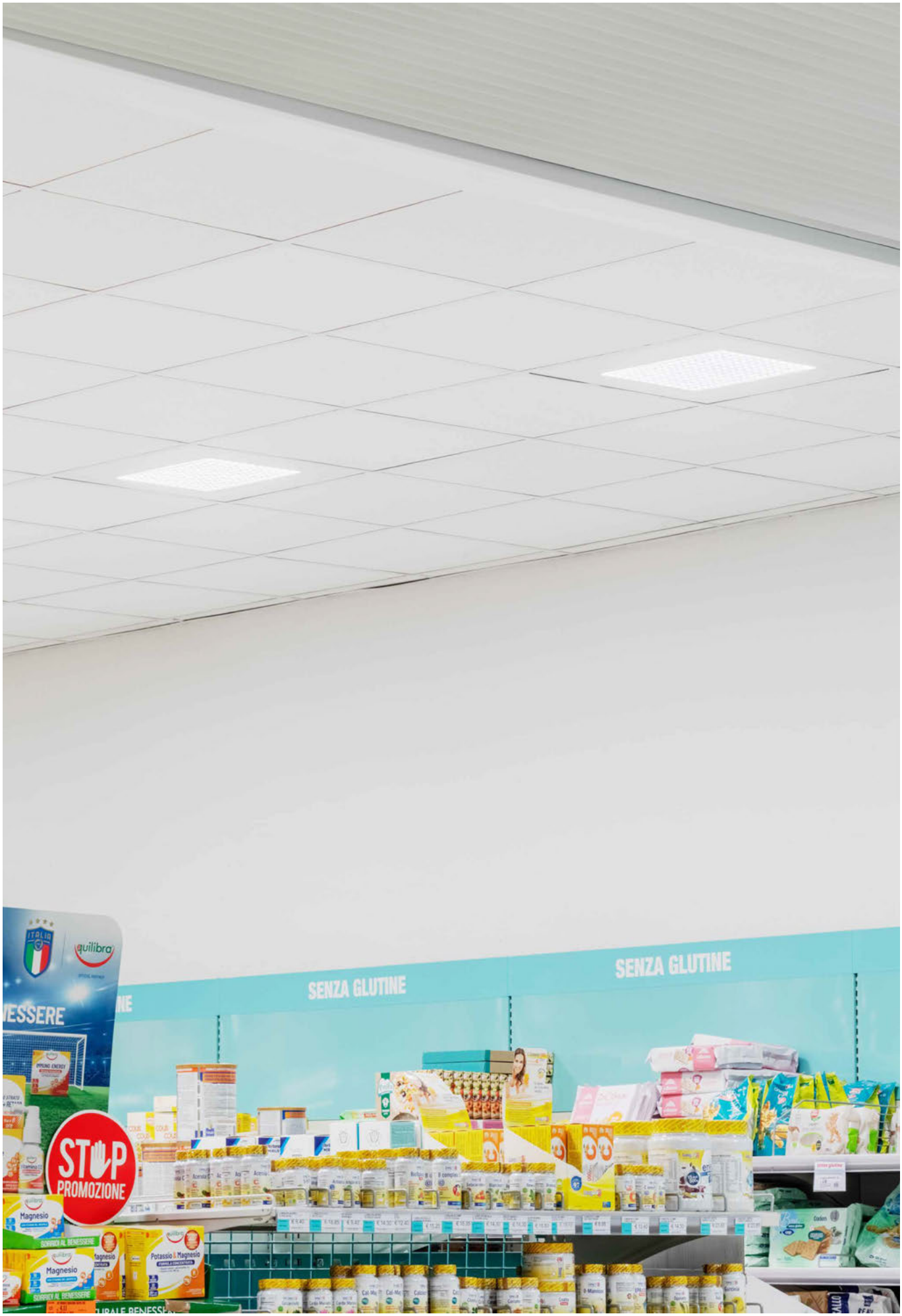
Code	Item
A0579	Safety wire with brackets

Anti-fall safety cable with pair of brackets for fixing the housing to the building structure. Length 2.5 m.



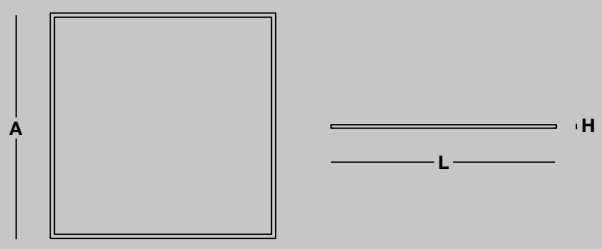
Code	Item
A01489	3FLPLAFO604 - 60x60 ceiling frame kit

White aluminium frame. Height 80 mm.


SENZA GLUTINE
SENZA GLUTINE
STOP
PROMOZIONE
Magnesio
Potassio & Magnesio







Porto di Savona
Savona
Italia/Italy



3F LED Panel

ILLUMINOTECHNICAL

Direct symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in white painted epoxy-polyester powder aluminium.
Diffuser in SMP trasparent microprismatic methacrylate (PMMA) externally, anti-glare with high transmittance.
Perimetral frame in white polycarbonate.
Anti-fall safety cable.

ELECTRICAL

In compliance with EN 60598-1.
Multi-current power supply, to be ordered separately, that allows you to choose the driving current of the fixture at the time of installation (default 900mA) according to the required illuminance.
Fixtures in compliance with EN 60598-2-22, for power supply from a centralised CPSS emergency system.
Class II.
EP permanent emergency kit, to be ordered separately, compliant with the EN S60598-2-22, high risk areas excluded.

INSTALLATION

Lay-in or pull-up installation, Ceiling or suspension via accessory.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

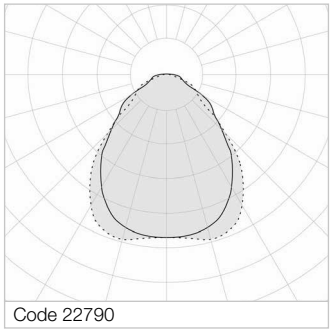
LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).
In electrical systems without a regulation system (manual or automatic) and DALI bus, a suitable jumper must be made on the DA-DA terminals of the appliance.

3F LED Panel

CE | SAFE FLICKER | D | 650°C | IP20 IP43 | 1J | IK06 | III | Driver/LED SELV | HACCP





Code 22790

23W, 27W, 29W, 31W, 34W, 36W, 39W, and 43W powers, are available with DALI wiring.
27W, 29W, 31W, 34W and 36W powers, are available with ON/OFF wiring.

Code	Item	W	lm		K	CRI	L x A x H
22790	3FLP6060UGR-830	23	2755	600mA	3000	>80	595x595x9
		27	3207	700mA			
		29	3437	750mA			
		31	3640	800mA			
		34	3830	850mA			
		36	4010	900mA			
		39	4471	1000mA			
		43	4860	1100mA			
22791	3FLP6060UGR-840	23	2990	600mA	4000	>80	595x595x9
		27	3480	700mA			
		29	3730	750mA			
		31	3950	800mA			
		34	4160	850mA			
		36	4350	900mA			
		39	4850	1000mA			
		43	5272	1100mA			
22796	3FLP30120UGR-840	23	2690	600mA	4000	>80	1195x295x9
		27	3131	700mA			
		29	3355	750mA			
		31	3554	800mA			
		34	3744	850mA			
		36	3922	900mA			
		39	4372	1000mA			
		43	4754	1100mA			
22792	3FLP6060UGR-930	23	2316	600mA	3000	>90	595x595x9
		27	2696	700mA			
		29	2890	750mA			
		31	3060	800mA			
		34	3220	850mA			
		36	3370	900mA			
		39	3758	1000mA			
		43	4084	1100mA			
22793	3FLP6060UGR-940	23	2513	600mA	4000	>90	595x595x9
		27	2925	700mA			
		29	3135	750mA			
		31	3320	800mA			
		34	3500	850mA			
		36	3660	900mA			
		39	4081	1000mA			
		43	4436	1100mA			
22794	3FLP30120UGR-940	23	2263	600mA	4000	>90	1195x295x9
		27	2634	700mA			
		29	2823	750mA			
		31	2990	800mA			
		34	3150	850mA			
		36	3300	900mA			
		39	3679	1000mA			
		43	4000	1100mA			

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LED Panel | Accessories



Code	Item
A01485	ZK700-900EL DRIVER ON-OFF DIP-SWITCH
A01486	DELT40C-MEL DRIVER DALI DIP-SWITCH

3F LED Panel Driver

Classe II



Code	Item
A01490	3FLPLAFO603 - 60x60 ceiling frame kit
A01491	3FLPLAFO1203 - 30x120 ceiling frame kit

Frame for ceiling installation of the product (driver included), made of white extruded aluminium. Kit to assemble. Dowels and screws supplied as standard.
Attention: the code 3FLPLAF0603 is dedicated to 60x60 cm panels, while the code 3FLPLAF01203 is dedicated to 120x30 cm panels.



Code	Item
A01495	600x600 carter for metal panels

600x600 carter in white painted steel, for installing 596x596 mm luminaires in abutment on false ceilings with metal panels.
This accessory is suitable for square products only.



Code	Item
A01492	3FKTLP-SPU - Suspension with adjustment - 2m

Adjustable suspension with 2 m long cables.



Code	Item
A01493	3FKTLPW1-MS - Built-in springs

Kit of 4 metal springs for recessed installation of the product.



Code	Item
A01498 UPDATE	3FLP Kit EP 1h/3h - 12h

EP maintained emergency wiring, 1h or 3hrs selectable duration with 12hrs recharge.
EN 60598-2-22 standard compliant, high-risk areas excluded. Battery dimensions 160x50x30 mm. Inverter dimensions 165x40x25 mm.

EP



/ 3F Dìagon

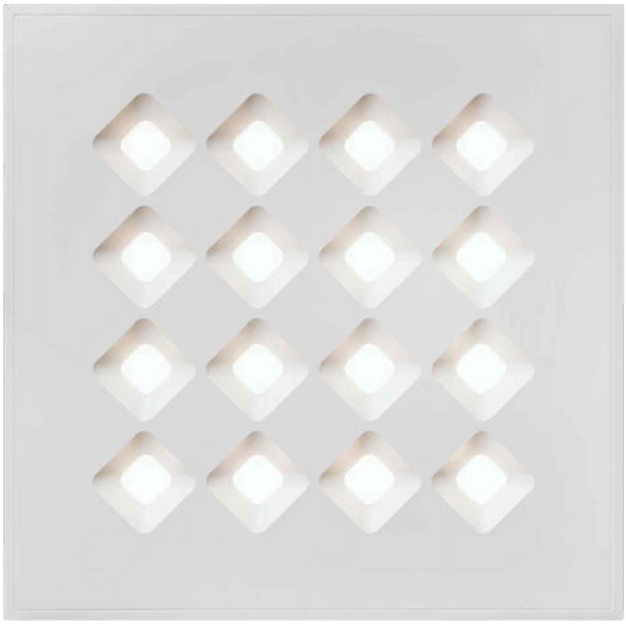
Light to improve working environments, shops and passage ways: providing this is **3F Dìagon**, a square shaped recessed fixture whose 16 recessed cells are equipped with state-of-the-art LED sources.

The fixture is only 30 millimetres high which allows installation in very low ceiling cavities (min. height 110 mm). Every truncated square pyramid shaped cell is equipped with a lens that is designed to maximise the light output of the state-of-the-art LED sources.

3F Dìagon
OLI S.p.A.
Medolla (MO), Italy



Transparent lenses



Soft UGR lenses

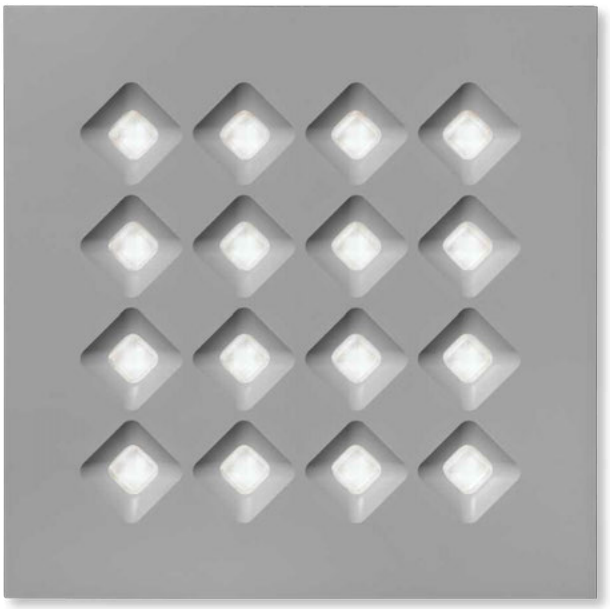
Wide-ranging **combinations.**

Available in three different sizes (596x596 mm, 599x599mm and 621x621mm) and with two different types of lenses (transparent and Soft UGR),3F Diagon is available with on/off wiring, DALI control, Tunable White and an Emergence light.

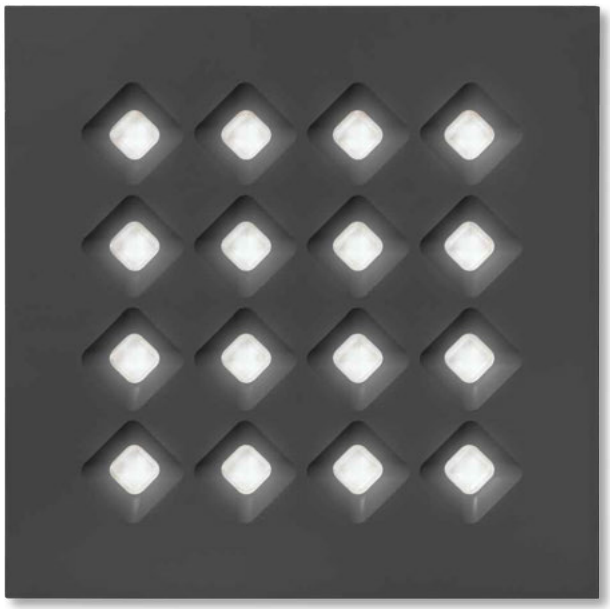
In addition, the body can be customised in 3 different finishes:

Finishes

- White
- Grey (on request)
- Black (on request)



Grey (on request)

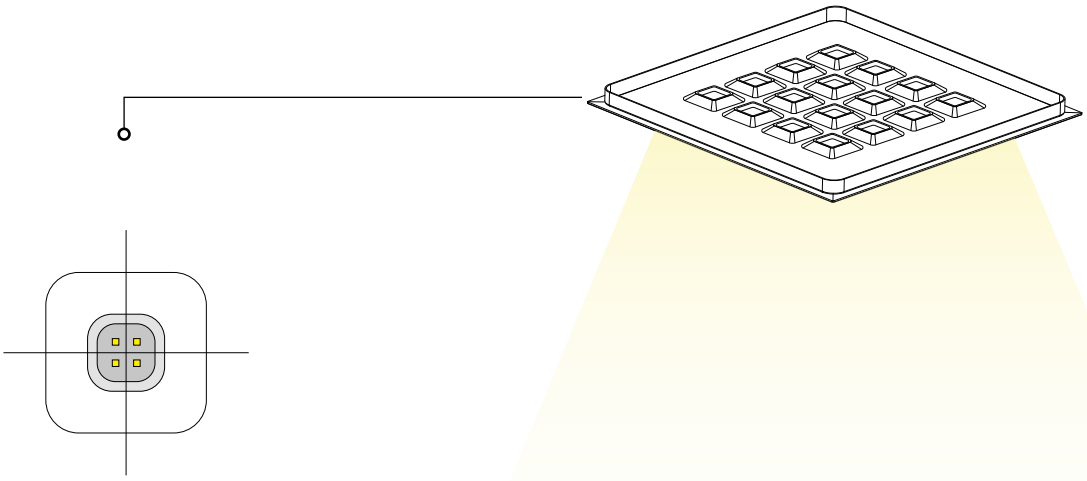


Black (on request)

Transparent lenses:
Versions equipped with a transparent lens have a glare level of less than 1500 cd/m^2 UGR<16. The 39W version provides luminance values of less than 3000 cd/m^2, despite luminaire output fluxes of more than 5500 lm.

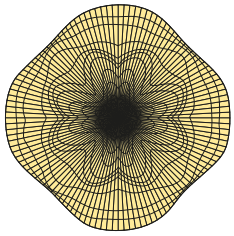
Soft UGR lenses:
Versions with Soft UGR lenses provide luminance control with values below 3000 cd/m^2 for angles >65°.
These versions are suitable for environments requiring soft, diffuse lighting.

Market solution



Cell distribution

Uniformity of light on the ground



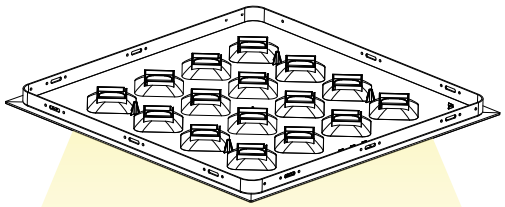
Light distribution
of a single cell

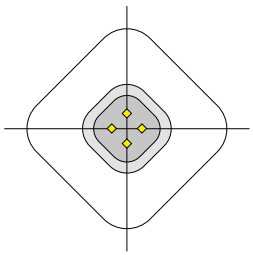
Lighting makes **45.**

The design of a 45-degree oriented lens was intended to **minimize shadow areas** within the illuminated space.

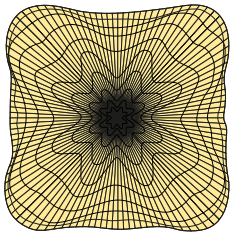
Analysis of commercially available multilenticular luminaires, designed with the lenses parallel to the edge of the luminaire, led to the development of this technically simple, yet extraordinarily unique solution.

3F Diagon





Cell distribution



Light distribution
of a single cell

Uniformity of light on the ground

With this cells oriented at 45°, the uniformity on the ground is greater because the light distribution of the cell fills the space more.

In addition, 3F Diagon is fitted with **specially designed lenses** that use microprisms to accentuate the light beam generated by the state-of-the-art sources.



Scale 1:1
mm

3 cm makes the difference.

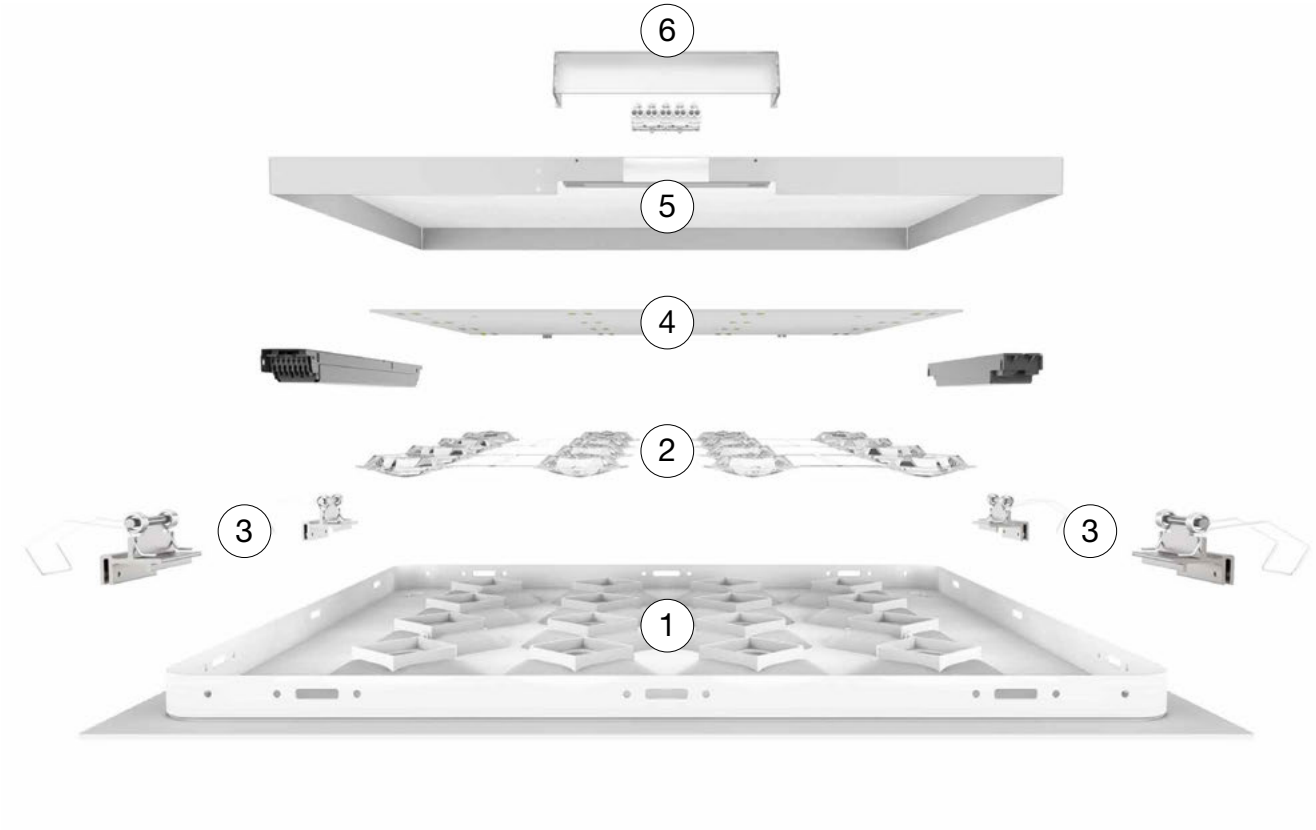
A further advantage that characterises 3F Dìagon is its height.

The body design allowed for a product height of only 30 mm, suitable for surface installation on false ceilings with a visible support system, a pull-up installation version on plasterboard false ceilings, metal ceilings and for ceiling installation.

All components, including the proximity sensor and EP emergency wiring, are contained in the body.

1/. Anti-glare white polycarbonate diagonal honeycomb screen.
2/. Rhomboidal lens with differentiated surface.
3/. Fixing by means of stainless steel springs.
4/. State-of-the-art square LED modules.
5/. Hot-dip galvanised painted steel housing.
6/. Fast connection with satin polycarbonate shell.


3 cm


6
5
4
2
3
3
1

Lay-in

Pull-up



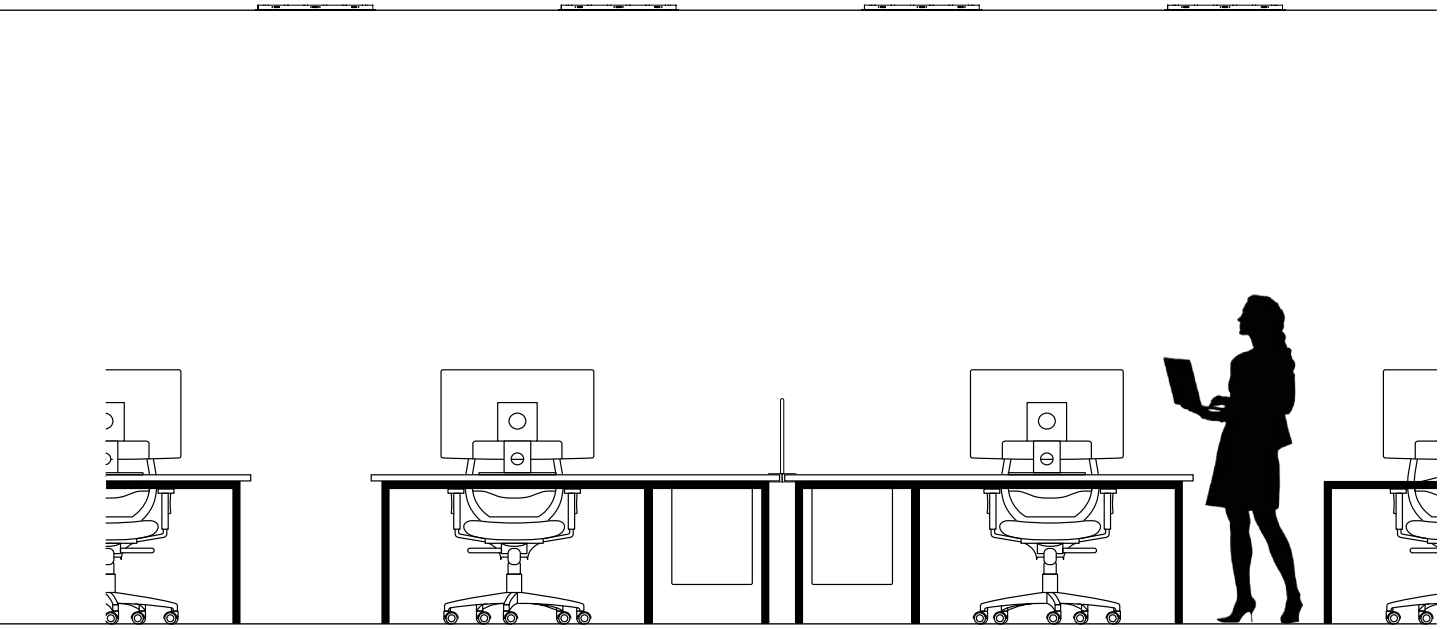
Range

3F Dìagon

	W	lm	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Dìagon	17 - 41	2694 - 4861	/830 /840 /930 /940	ON/OFF D2 EP	lay-in	1,40 x 1,40	596 x 596 x 30 621 x 621 x 30
3F Dìagon Soft UGR	28 - 41	3532 - 4116	/830 /840 /930 /940	ON/OFF D2 EP	lay-in	1,23 x 1,23	596 x 596 x 30 621 x 621 x 30
3F Dìagon Soft UGR TW	28 - 30	3567	/827 /840 /865	DT8	lay-in	1,23 x 1,23	596 x 596 x 30 621 x 621 x 30

Standard

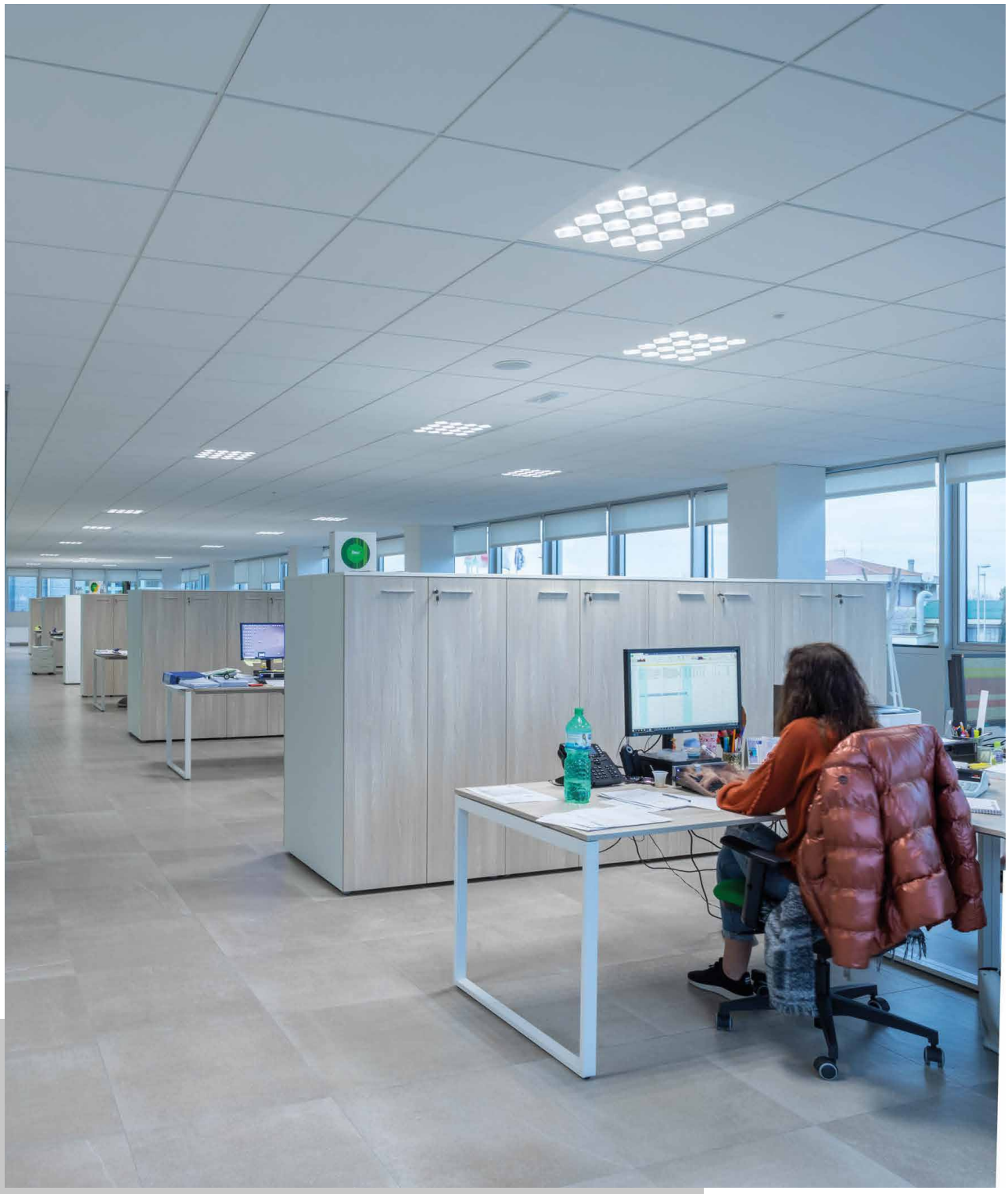
Soft UGR



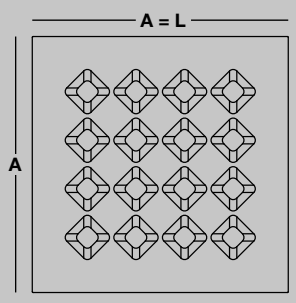
Range

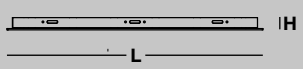
3F Dìagon

	W	Im	LED	Wiring	Installation	Dt x Dl	L x B x H
3F Dìagon FCL	21 - 29	3354 - 4250	/840	ON/OFF D2 EP	pull-up	1,40 x 1,40	599 x 599 x 60
3F Dìagon FCH	21 - 29	3354 - 4250	/840	ON/OFF D2 EP	pull-up	1,40 x 1,40	599 x 599 x 60
3F Dìagon FP	21 - 29	3354 - 4250	/840	ON/OFF D2 EP	pull-up	1,40 x 1,40	599 x 599 x 60
3F Dìagon FP Soft UGR	28 - 29	3679	/840	ON/OFF D2 EP	pull-up	1,23 x 1,23	599 x 599 x 60









Fimar
Villa Verucchio (RI)
Italia/Italy



3F Dìagon Lay-in installation

ILLUMINOTECHNICAL

Direct symmetric distribution.
Colour temperature available /830 - /840, /930 - /940.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Honeycombed diagonal screen in white anti-glare polycarbonate.
Height only 30 mm.
Installation in false ceilings with exposed structure.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Quick connection.

INSTALLATION

Lay-in installation.
Installation and assembly diagrams on page 171.

APPLICATIONS

Environments where soft diffuse light is required for optimal visual comfort and total shielding of the source.
Representative environments, with video terminals, offices, meeting rooms, transit areas, reception and waiting rooms.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

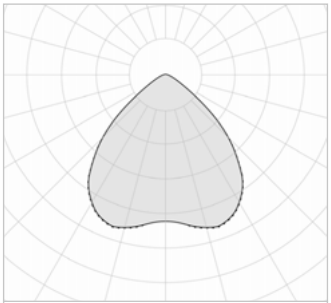
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: twin-circuit, CLO (page 662)
- Sensor version
- emergency versions

3F Dìagon

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23006 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
39W - Average luminance <3000 cd/m² for radial angles >65°.
Installation Interdistance Transv.D = 1.40 x hu - Long.D = 1.40 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in transparent methacrylate (PMMA).

3F Dìagon 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23025	3F Diagon 15W/840 596x596	17	2694	4000	>80	596x596x30
23024	3F Diagon 19W/840 596x596	21	3354	4000	>80	596x596x30
23098	3F Diagon 25W/930 596x596	28	3294	3000	>90	596x596x30
23122	3F Diagon 25W/940 596x596	28	3485	4000	>90	596x596x30
23002	3F Diagon 25W/830 596x596	28	4080	3000	>80	596x596x30
23026	3F Diagon 25W/840 596x596	28	4250	4000	>80	596x596x30
23027	3F Diagon 39W/840 596x596	40	5796	4000	>80	596x596x30
23123	3F Diagon 39W/940 596x596	40	4861	4000	>90	596x596x30

3F Dìagon 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23029	3F Diagon 15W/840 DALI 596x596	17	2694	4000	>80	596x596x30
23028	3F Diagon 19W/840 DALI 596x596	21	3354	4000	>80	596x596x30
23102	3F Diagon 25W/930 DALI 596x596	28	3294	3000	>90	596x596x30
23126	3F Diagon 25W/940 DALI 596x596	28	3485	4000	>90	596x596x30
23006	3F Diagon 25W/830 DALI 596x596	28	4080	3000	>80	596x596x30
23127	3F Diagon 39W/940 DALI 596x596	40	4861	4000	>90	596x596x30
23030	3F Diagon 25W/840 DALI 596x596	28	4250	4000	>80	596x596x30
23031	3F Diagon 39W/840 DALI 596x596	40	5796	4000	>80	596x596x30

3F Dìagon 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23033	3F Diagon 15W/840 EP 596x596	18	2694	4000	>80	596x596x30
23032	3F Diagon 19W/840 EP 596x596	22	3354	4000	>80	596x596x30
23106	3F Diagon 25W/930 EP 596x596	29	3294	3000	>90	596x596x30
23130	3F Diagon 25W/940 EP 596x596	29	3485	4000	>90	596x596x30
23010	3F Diagon 25W/830 EP 596x596	29	4080	3000	>80	596x596x30
23034	3F Diagon 25W/840 EP 596x596	29	4250	4000	>80	596x596x30
23035	3F Diagon 39W/840 EP 596x596	41	5796	4000	>80	596x596x30
23131	3F Diagon 39W/940 EP 596x596	41	4861	4000	>90	596x596x30

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Dìagon 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23409	3F Diagon 15W/840 621x621	17	2694	4000	>80	621x621x30
23408	3F Diagon 19W/840 621x621	21	3354	4000	>80	621x621x30
23482	3F Diagon 25W/930 621x621	28	3294	3000	>90	621x621x30
23506	3F Diagon 25W/940 621x621	28	3485	4000	>90	621x621x30
23386	3F Diagon 25W/830 621x621	28	4080	3000	>80	621x621x30
23410	3F Diagon 25W/840 621x621	28	4250	4000	>80	621x621x30
23411	3F Diagon 39W/840 621x621	40	5796	4000	>80	621x621x30
23507	3F Diagon 39W/940 621x621	40	4861	4000	>90	621x621x30

3F Dìagon 621x621 - DALI electronic wiring 230V-50/60Hz

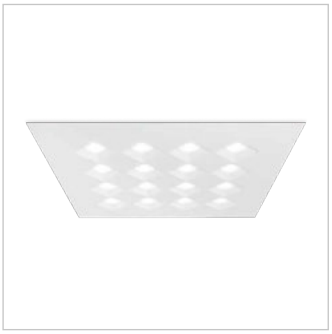
Code	Item	W	lm	K	CRI	L x A x H
23413	3F Diagon 15W/840 DALI 621x621	17	2694	4000	>80	621x621x30
23412	3F Diagon 19W/840 DALI 621x621	21	3354	4000	>80	621x621x30
23486	3F Diagon 25W/930 DALI 621x621	28	3294	3000	>90	621x621x30
23510	3F Diagon 25W/940 DALI 621x621	28	3485	4000	>90	621x621x30
23390	3F Diagon 25W/830 DALI 621x621	28	4080	3000	>80	621x621x30
23414	3F Diagon 25W/840 DALI 621x621	28	4250	4000	>80	621x621x30
23415	3F Diagon 39W/840 DALI 621x621	40	5796	4000	>80	621x621x30
23511	3F Diagon 39W/940 DALI 621x621	40	4861	4000	>90	621x621x30

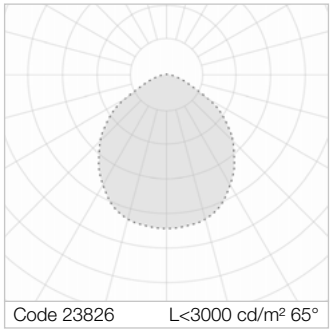
3F Dìagon 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23417	3F Diagon 15W/840 EP 621x621	18	2694	4000	>80	621x621x30
23416	3F Diagon 19W/840 EP 621x621	22	3354	4000	>80	621x621x30
23490	3F Diagon 25W/930 EP 621x621	29	3294	3000	>90	621x621x30
23514	3F Diagon 25W/940 EP 621x621	29	3485	4000	>90	621x621x30
23394	3F Diagon 25W/830 EP 621x621	29	4080	3000	>80	621x621x30
23418	3F Diagon 25W/840 EP 621x621	29	4250	4000	>80	621x621x30
23419	3F Diagon 39W/840 EP 621x621	41	5796	4000	>80	621x621x30
23515	3F Diagon 39W/940 EP 621x621	41	4861	4000	>90	621x621x30

3F Dìagon Soft UGR

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23826 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for angles >65°.
Installation Interdistance Transv.D = 1.20 x hu - Long.D = 1.20 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in opal methacrylate (PMMA).

3F Dìagon 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23826	3F Diagon 25W/830 SOFT UGR 596x596	28	3532	3000	>80	596x596x30
23812	3F Diagon 25W/840 SOFT UGR 596x596	28	3679	4000	>80	596x596x30
23842	3F Diagon 39W/930 SOFT UGR 596x596	40	3890	3000	>90	596x596x30
23834	3F Diagon 39W/940 SOFT UGR 596x596	40	4116	4000	>90	596x596x30

3F Dìagon 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23828	3F Diagon 25W/830 DALI SOFT UGR 596x596	28	3532	3000	>80	596x596x30
23814	3F Diagon 25W/840 DALI SOFT UGR 596x596	28	3679	4000	>80	596x596x30
23844	3F Diagon 39W/930 DALI SOFT UGR 596x596	40	3890	3000	>90	596x596x30
23836	3F Diagon 39W/940 DALI SOFT UGR 596x596	40	4116	4000	>90	596x596x30

3F Dìagon 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23827	3F Diagon 25W/830 EP SOFT UGR 596x596	29	3532	3000	>80	596x596x30
23813	3F Diagon 25W/840 EP SOFT UGR 596x596	29	3679	4000	>80	596x596x30
23843	3F Diagon 39W/930 EP SOFT UGR 596x596	41	3890	3000	>90	596x596x30
23835	3F Diagon 39W/940 EP SOFT UGR 596x596	41	4116	4000	>90	596x596x30

3F Dìagon 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23830	3F Diagon 25W/830 SOFT UGR 621x621	28	3532	3000	>80	621x621x30
23819	3F Diagon 25W/840 SOFT UGR 621x621	28	3679	4000	>80	621x621x30
23846	3F Diagon 39W/930 SOFT UGR 621x621	40	3890	3000	>90	621x621x30
23838	3F Diagon 39W/940 SOFT UGR 621x621	40	4116	4000	>90	621x621x30

3F Dìagon 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23832	3F Diagon 25W/830 DALI SOFT UGR 621x621	28	3532	3000	>80	621x621x30
23821	3F Diagon 25W/840 DALI SOFT UGR 621x621	28	3679	4000	>80	621x621x30
23848	3F Diagon 39W/930 DALI SOFT UGR 621x621	40	3890	3000	>90	621x621x30
23840	3F Diagon 39W/940 DALI SOFT UGR 621x621	40	4116	4000	>90	621x621x30

3F Dìagon 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

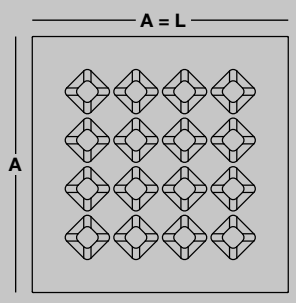
Code	Item	W	lm	K	CRI	L x A x H
23831	3F Diagon 25W/830 EP SOFT UGR 621x621	29	3532	3000	>80	621x621x30
23820	3F Diagon 25W/840 EP SOFT UGR 621x621	29	3679	4000	>80	621x621x30
23847	3F Diagon 39W/930 EP SOFT UGR 621x621	41	3890	3000	>90	621x621x30
23839	3F Diagon 39W/940 EP SOFT UGR 621x621	41	4116	4000	>90	621x621x30

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



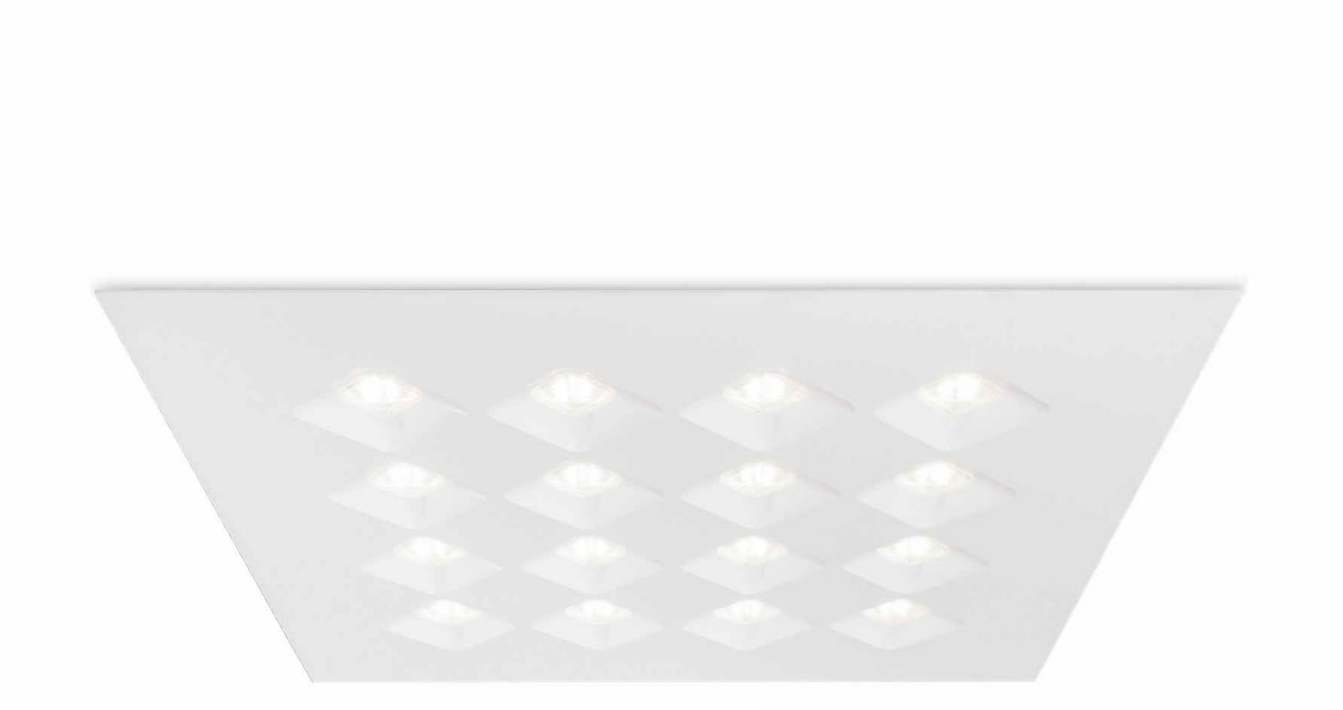








Andriani S.p.A.
Gravina di Puglia (BA)
Italia/Italy



3F Dìagon Lay-in installation - Tunable White

ILLUMINOTECHNICAL

Direct symmetric distribution.
The colour temperature can be adjusted between 2700 K and 6500 K.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Honeycombed diagonal screen in white anti-glare polycarbonate.
Height only 30 mm.
Installation in false ceilings with exposed structure.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Cable with a DALI DT8 driver.
5-pole terminal block (L-N-PE-DA/DA) quick connection for line connection with connection capacity 2x2.5 mm^2 per poles.

INSTALLATION

Lay-in installation.
Installation and assembly diagrams on page 171.

APPLICATIONS

Any environments requiring light which aims for the wellness of people.
Environments where soft diffuse light is required for optimal visual comfort and total shielding of the source.
Representative environments, with video terminals, offices, meeting rooms, transit areas, reception and waiting rooms.

LIGHT MANAGEMENT

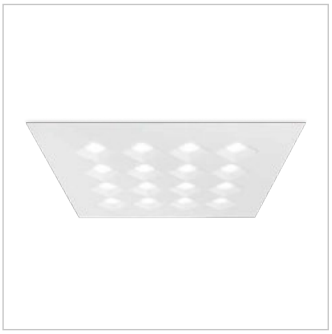
Tunable White products can be controlled with wired control systems (page 652) or 3F & Casambi (page 656).

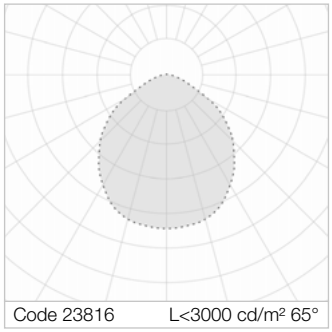
ON REQUEST

- different power levels or colour rendering indices
- emergency versions

3F Dìagon Soft UGR Tunable White

650°C | IP20 IP43 | 1J | IK06 | TW





Code 23816 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for angles >65°.
Installation Interdistance Transv.D = 1.20 x hu - Long.D = 1.20 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in opal methacrylate (PMMA).

3F Dìagon 596x596 - DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23816	3F Diagon 25W DT8 TW SOFT UGR 596x596	30 29 28	3567	2700 4000 6500	>80	596x596x30

3F Dìagon 621x621 - DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23823	3F Diagon 25W DT8 TW SOFT UGR 621x621	30 29 28	3567	2700 4000 6500	>80	621x621x30

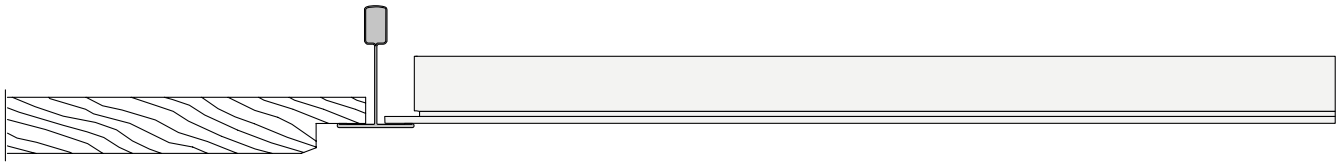
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

/ Mounting details 3F Dìagon | Lay-in installation

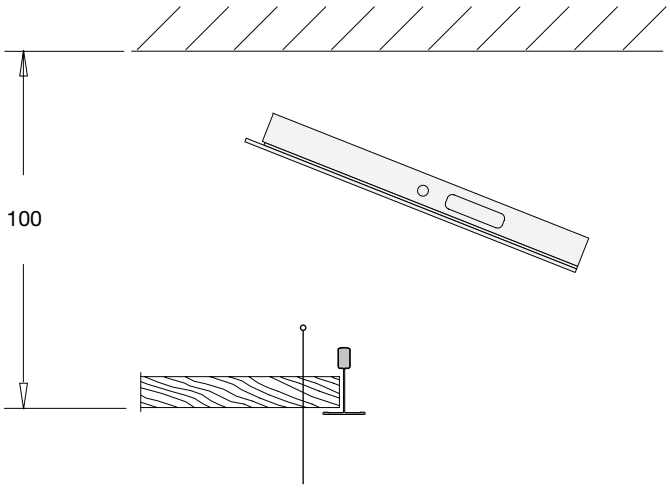
Standard versions



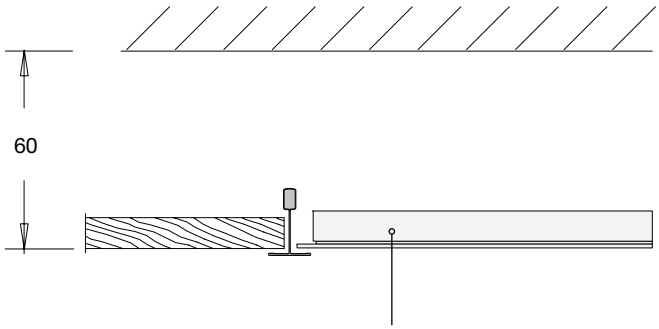
Panels in mineral fibre with exposed structure 600x600 or 625x625.



Installation

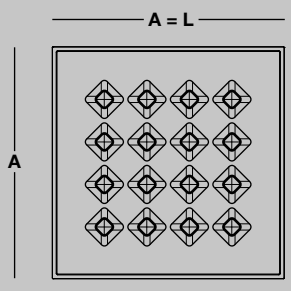


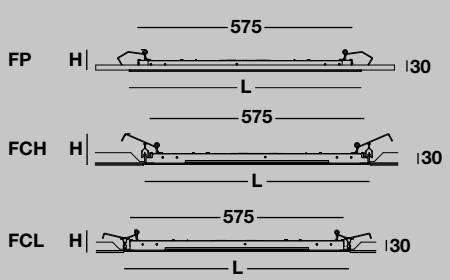
Installation following false ceiling mounting, supported by the exposed structure, minimum void of 110 mm from the structure's lower edge.



Installation simultaneously with the false ceiling, minimum void of 60 mm from the structure's lower edge.







Sushi Zero
Varese
Italia/Italy



3F Dìagon Pull-up installation

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L75/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Honeycombed diagonal screen in white anti-glare polycarbonate.
Height only 30 mm.
The FP (For Plasterboard) version is dedicated to plasterboard false ceilings.
The FCL (For Complanar Low) version is dedicated to plasterboard with metal panels and low structures.
The FCH (For Complanar High) version is dedicated to plasterboard with metal panels and high structures.
For all versions, spring fixing in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Quick connection.

INSTALLATION

Pull-up installation.
Installation and assembly diagrams on page 176.
Do not hesitate to contact our Sales Network or our Technical Offices to check the compatibility of the FCH and FCL models with the various types of metallic false ceilings.

APPLICATIONS

FCL, FCH, FP versions
Environments: staterooms, with VDTs, offices.
Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.

Version FP Soft UGR
Environments where soft diffuse light is required for optimal visual comfort and total shielding of the source.

LIGHT MANAGEMENT

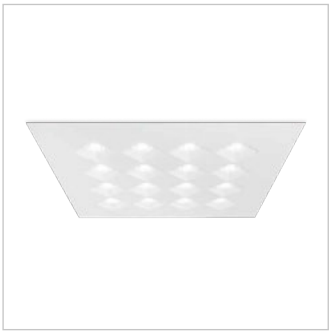
The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

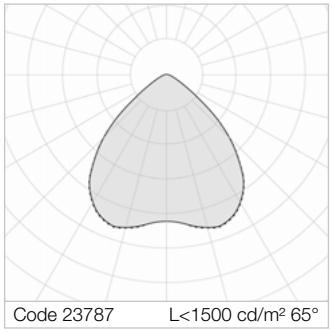
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: twin-circuit, CLO (page 662)
- luminaires for pull-up installation with brackets
- 3F Tunable White versione
- 3F Dìagon Soft UGR, for FCL and FCH versions
- emergency versions

3F Dìagon FCL

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23787 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
Installation Interdistance Transv.D = 1.40 x hu - Long.D = 1.40 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in transparent methacrylate (PMMA).

3F Dìagon 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23785	3F Diagon FCL 19W/840 599x599	21	3354	4000	>80	599x599x60
23786	3F Diagon FCL 25W/840 599x599	28	4250	4000	>80	599x599x60

3F Dìagon 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23787	3F Diagon FCL 19W/840 DALI 599x599	21	3354	4000	>80	599x599x60
23788	3F Diagon FCL 25W/840 DALI 599x599	28	4250	4000	>80	599x599x60

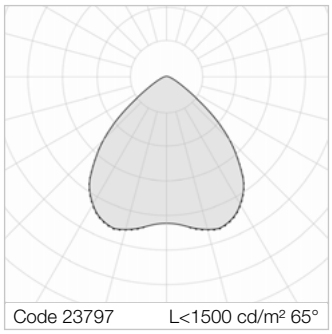
3F Dìagon 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23789	3F Diagon FCL 19W/840 EP 599x599	22	3354	4000	>80	599x599x60
23790	3F Diagon FCL 25W/840 EP 599x599	29	4250	4000	>80	599x599x60

3F Dìagon FCH

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23797 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
Installation Interdistance Transv.D = 1.40 x hu - Long.D = 1.40 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in transparent methacrylate (PMMA).

3F Dìagon 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23795	3F Diagon FCH 19W/840 599x599	21	3354	4000	>80	599x599x60
23796	3F Diagon FCH 25W/840 599x599	28	4250	4000	>80	599x599x60

3F Dìagon 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23797	3F Diagon FCH 19W/840 DALI 599x599	21	3354	4000	>80	599x599x60
23798	3F Diagon FCH 25W/840 DALI 599x599	28	4250	4000	>80	599x599x60

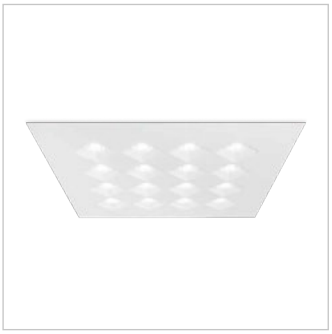
3F Dìagon 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

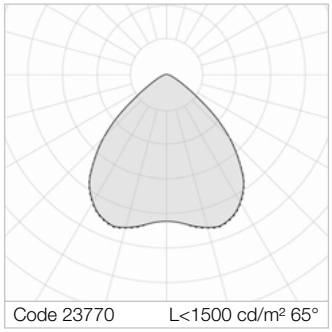
Code	Item	W	lm	K	CRI	L x A x H
23799	3F Diagon FCH 19W/840 EP 599x599	22	3354	4000	>80	599x599x60
23800	3F Diagon FCH 25W/840 EP 599x599	29	4250	4000	>80	599x599x60

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Dìagon FP

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23770 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
Installation Interdistance Transv.D = 1.40 x hu - Long.D = 1.40 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in transparent methacrylate (PMMA).

3F Dìagon 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
24048	3F Diagon FP 19W/840 599x599	21	3354	4000	>80	599x599x60
24049	3F Diagon FP 25W/840 599x599	28	4250	4000	>80	599x599x60

3F Dìagon 599x599 - DALI electronic wiring 230V-50/60Hz

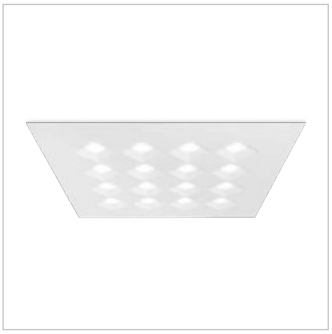
Code	Item	W	lm	K	CRI	L x A x H
24050	3F Diagon FP 19W/840 DALI 599x599	21	3354	4000	>80	599x599x60
24051	3F Diagon FP 25W/840 DALI 599x599	28	4250	4000	>80	599x599x60

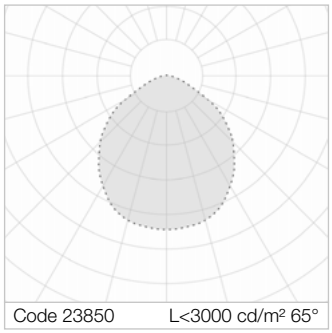
3F Dìagon 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
24052	3F Diagon FP 19W/840 EP 599x599	22	3354	4000	>80	599x599x60
24053	3F Diagon FP 25W/840 EP 599x599	29	4250	4000	>80	599x599x60

3F Dìagon FP Soft UGR

EP | D | 650°C | IP20 IP43 | 1J | IK06





Code 23850 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for angles >65°.
Installation Interdistance Transv.D = 1.20 x hu - Long.D = 1.20 x hu.
Rhomboidal lenses with differentiated surfaces, etched and prismatic to optimise the orientation of the luminous flux, in opal methacrylate (PMMA).

3F Dìagon 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23853	3F Diagon FP 25W/840 SOFT UGR 599x599	28	3679	4000	>80	599x599x60

3F Dìagon 599x599 - DALI electronic wiring 230V-50/60Hz

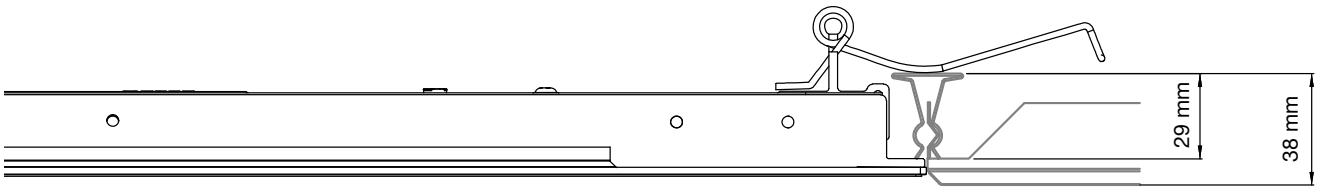
Code	Item	W	lm	K	CRI	L x A x H
23855	3F Diagon FP 25W/840 DALI SOFT UGR 599x599	28	3679	4000	>80	599x599x60

3F Dìagon 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

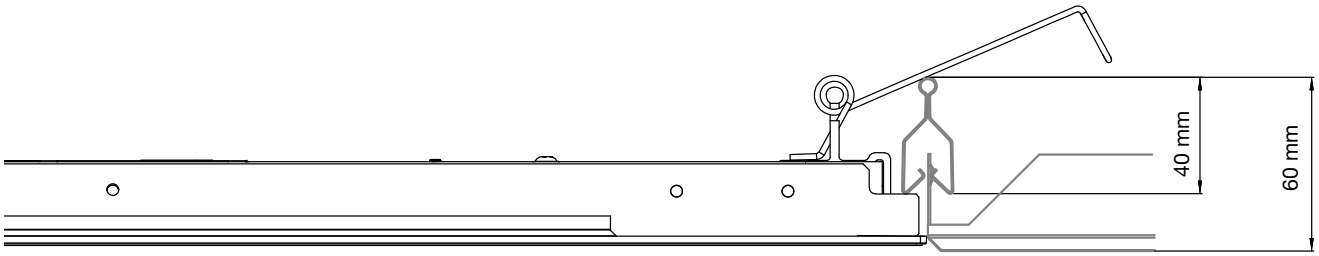
Code	Item	W	lm	K	CRI	L x A x H
23854	3F Diagon FP 25W/840 EP SOFT UGR 599x599	29	3679	4000	>80	599x599x60

Mounting details 3F Dìagon | Pull-up installation

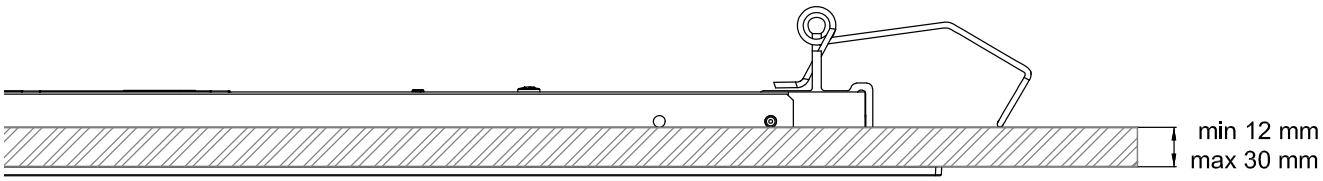
Standard versions



FCL - Version for metal panels with low structures



FCH - Version for metal panels with high structures



FP - Version for Plasterboard

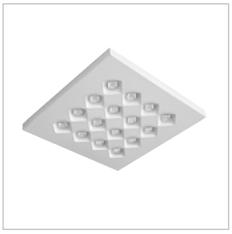
Do not hesitate to contact our Sales Network or our Technical Offices to check the compatibility of the FCL, FCH and FP models with the various types of false ceilings.

3F Dìagon | Accessories



Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.



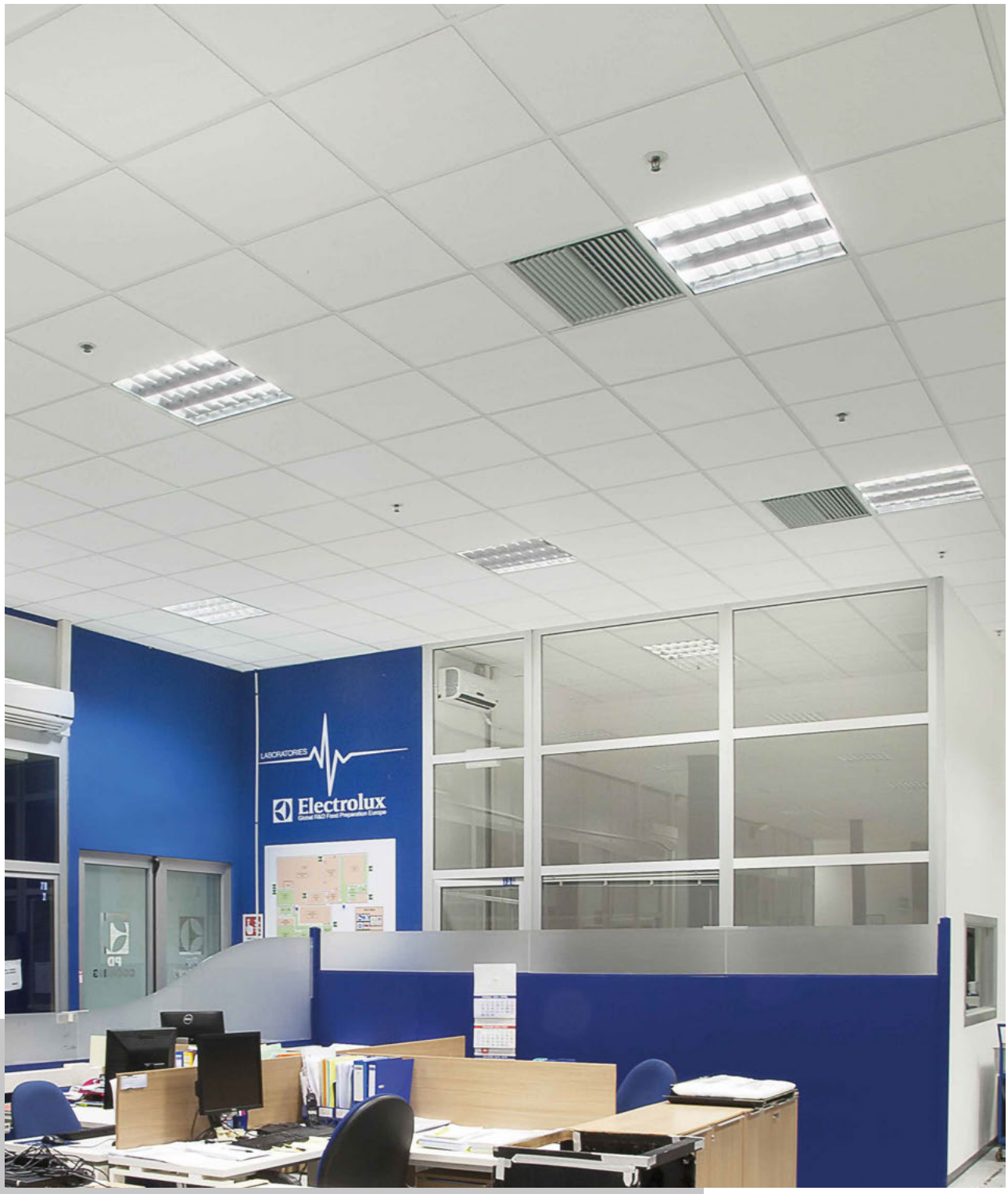
Code	Item
A0686	596x596 Diagon frame ceiling instal.

White painted polyester hot-dip galvanised steel frame for 3F Dìagon Plafone. Height only 40 mm.
Accessory compatible with 3F Dìagon - Lay-in installation, 3F Dìagon - Lay-in installation - Tunable White.

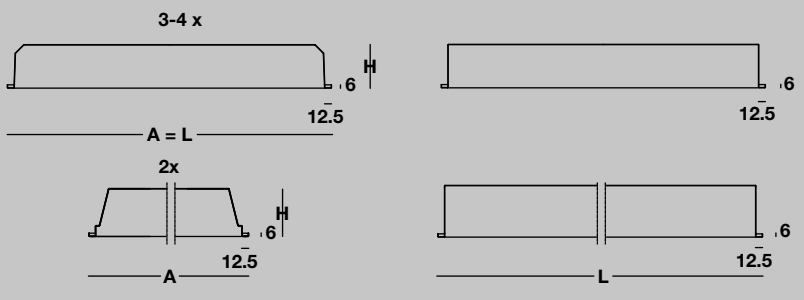


Code	Item
A0702	Suction cup for Diagon maintenance

Suction cup to extract "3F Dìagon" installed in abutment. To be used in false ceilings with metal panels, where the space between the luminaire and the surrounding panels does not allow the use of other tools.
Accessory compatible with 3F Dìagon - Pull-up installation.







Electrolux
Forlì
Italia/Italy



L 320

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.

10W version
Colour initial tolerance (MacAdam): SDCM 2.
18W version
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Attention: before ordering these products, we ask you to check the Installation instructions if the type of installation requires accessory brackets.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

INSTALLATION

Lay-in or pull-up installation with brackets.
Installation and assembly diagrams on page 188.

APPLICATIONS

Environments: staterooms, with VDTs, offices.
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.

SP, LGS versions
Environments: sterilized, aseptic.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

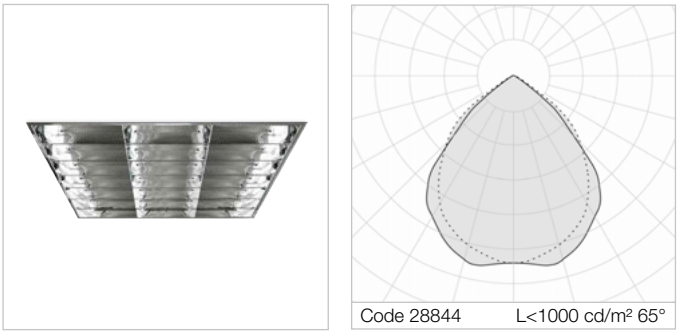
LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- Sensor version
- diffuser in OP opal methacrylate (PMMA) or SP polycarbonate, self-extinguishing V2
- luminaires for pull-up installation with brackets
- emergency versions

L 320 2MG



Average luminance <1000 cd/m² for radial angles >65°.
2MG parabolic louvre, high efficiency, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

L 320 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28844	L 323x10W LED 2MG 596x596	34	4287	4000	>80	596x596x80
22722	L 323x10W/940 LED 2MG 596x596	34	3515	4000	>90	596x596x80

L 320 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28856	L 323x10W LED DALI 2MG 596x596	34	4287	4000	>80	596x596x80
22724	L 323x10W/940 LED DALI 2MG 596x596	34	3515	4000	>90	596x596x80

L 320 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
28847	L 323x10W LED EP 2MG 596x596	35	4287	4000	>80	596x596x80
22723	L 323x10W/940 LED EP 2MG 596x596	35	3515	4000	>90	596x596x80

L 320 296x1196 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28846	L 322x18W LED 2MG 296x1196	40	5024	4000	>80	1196x296x95

L 320 296x1196 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28858	L 322x18W LED DALI 2MG 296x1196	40	5024	4000	>80	1196x296x95

L 320 296x1196 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

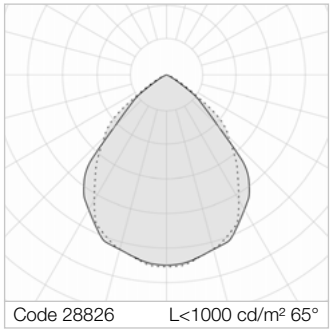
Code	Item	W	lm	K	CRI	L x A x H
28849	L 322x18W LED EP 2MG 296x1196	41	5024	4000	>80	1196x296x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 320 2S

CE | SAFE FLICKER | EP | D | 650°C | IP20 | Driver/LED SELV





Code 28826 L<1000 cd/m² 65°

Average luminance <1000 cd/m² for radial angles >65°.
2S parabolic louvre in semi-specular aluminium, non-reflecting, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

L 320 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28826	L 323x10W LED 2S 596x596	34	3997	4000	>80	596x596x80
22716	L 323x10W/940 LED 2S 596x596	34	3277	4000	>90	596x596x80

L 320 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28838	L 323x10W LED DALI 2S 596x596	34	3997	4000	>80	596x596x80
22718	L 323x10W/940 LED DALI 2S 596x596	34	3277	4000	>90	596x596x80

L 320 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
28829	L 323x10W LED EP 2S 596x596	35	3997	4000	>80	596x596x80
22717	L 323x10W/940 LED EP 2S 596x596	35	3277	4000	>90	596x596x80

L 320 296x1196 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28828	L 322x18W LED 2S 296x1196	40	4588	4000	>80	1196x296x95

L 320 296x1196 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
28840	L 322x18W LED DALI 2S 296x1196	40	4588	4000	>80	1196x296x95

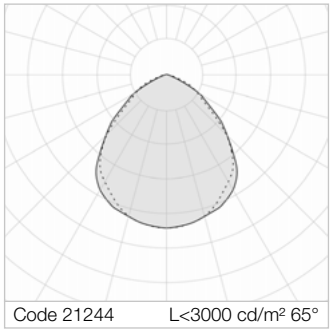
L 320 296x1196 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
28831	L 322x18W LED EP 2S 296x1196	41	4588	4000	>80	1196x296x95

L 320 SP

EP | D | 650°C | IP20 IP54 | 1J | IK06 | Driver/LED SELV





Code 21244 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
SP transparent methacrylate (PMMA) diffuser, prismatic exterior, anti-glare, locked to the prepainted white aluminium perimeter frame with sealing gasket, hinged opening.

L 320 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21244	L 323x10W LED SP 596x596	34	4163	4000	>80	596x596x80
22701	L 323x10W/940 LED SP 596x596	34	3413	4000	>90	596x596x80
21245	L 324x10W LED SP 596x596	45	5516	4000	>80	596x596x80
22702	L 324x10W/940 LED SP 596x596	45	4523	4000	>90	596x596x80

L 320 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21256	L 323x10W LED DALI SP 596x596	34	4163	4000	>80	596x596x80
22703	L 323x10W/940 LED DALI SP 596x596	34	3413	4000	>90	596x596x80
21257	L 324x10W LED DALI SP 596x596	45	5516	4000	>80	596x596x80
22704	L 324x10W/940 LED DALI SP 596x596	45	4523	4000	>90	596x596x80

L 320 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21262	L 323x10W LED EP SP 596x596	35	4163	4000	>80	596x596x80
22705	L 323x10W/940 LED EP SP 596x596	35	3413	4000	>90	596x596x80
21263	L 324x10W LED EP SP 596x596	46	5516	4000	>80	596x596x80
22706	L 324x10W/940 LED EP SP 596x596	46	4523	4000	>90	596x596x80

L 320 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21617	L 323x10W LED SP 599x599	34	4163	4000	>80	599x599x80
21618	L 323x10W/940 LED SP 599x599	34	3413	4000	>90	599x599x80

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L 320 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21619	L 323x10W LED DALI SP 599x599	34	4163	4000	>80	599x599x80
21620	L 323x10W/940 LED DALI SP 599x599	34	3413	4000	>90	599x599x80

L 320 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21621	L 323x10W LED EP SP 599x599	35	4163	4000	>80	599x599x80
21622	L 323x10W/940 LED EP SP 599x599	35	3413	4000	>90	599x599x80

L 320 296x1196 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21287	L 322x18W LED SP 296x1196	40	5114	4000	>80	1196x296x95

L 320 296x1196 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21290	L 322x18W LED DALI SP 296x1196	40	5114	4000	>80	1196x296x95

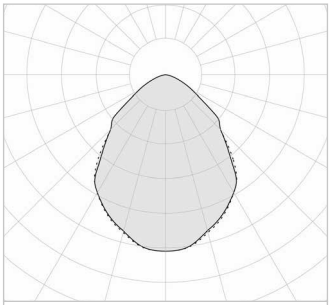
L 320 296x1196 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21293	L 322x18W LED EP SP 296x1196	41	5114	4000	>80	1196x296x95

L 320 LGS

CE | SAFER FLICKER | EP | D | 650°C | IP20 IP54 | 1J | IK06 | Driver/LED SELV





Code 21580 L<1500 cd/m² 65°

2x - 4x - Average luminance <3000 cd/m² for radial angles >65°.
3x - Average luminance <1500 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multilenticular exterior, anti-glare, locked to the white painted aluminium perimetral frame, sealing gasket, hinged opening.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 320 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21580	L 323x10W LED LGS 596x596	34	3178	4000	>80	596x596x80
21581	L 324x10W LED LGS 596x596	45	4292	4000	>80	596x596x80
22709	L 324x10W/940 LED LGS 596x596	45	3520	4000	>90	596x596x80

L 320 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21586	L 323x10W LED DALI LGS 596x596	34	3178	4000	>80	596x596x80
21587	L 324x10W LED DALI LGS 596x596	45	4292	4000	>80	596x596x80
22710	L 324x10W/940 LED DALI LGS 596x596	45	3520	4000	>90	596x596x80

L 320 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21589	L 323x10W LED EP LGS 596x596	35	3178	4000	>80	596x596x80
21590	L 324x10W LED EP LGS 596x596	46	4292	4000	>80	596x596x80
22711	L 324x10W/940 LED EP LGS 596x596	46	3520	4000	>90	596x596x80

L 320 599x599 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21623	L 324x10W LED LGS 599x599	45	4292	4000	>80	599x599x80
21624	L 324x10W/940 LED LGS 599x599	45	3520	4000	>90	599x599x80

L 320 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21625	L 324x10W LED DALI LGS 599x599	45	4292	4000	>80	599x599x80
21626	L 324x10W/940 LED DALI LGS 599x599	45	3520	4000	>90	599x599x80

L 320 599x599 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21627	L 324x10W LED EP LGS 599x599	46	4292	4000	>80	599x599x80
21628	L 324x10W/940 LED EP LGS 599x599	46	3520	4000	>90	599x599x80

L 320 296x1196 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21600	L 322x18W LED LGS 296x1196	40	3979	4000	>80	1196x296x95

L 320 296x1196 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21603	L 322x18W LED DALI LGS 296x1196	40	3979	4000	>80	1196x296x95

L 320 296x1196 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21606	L 322x18W LED EP LGS 296x1196	41	3979	4000	>80	1196x296x95

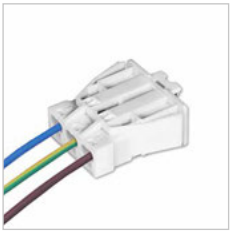
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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 320 | Accessories



Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.



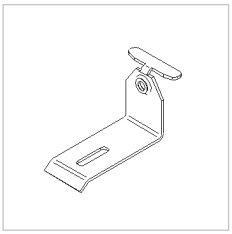
Code	Item
A0720	Wieland (white plug)
A0721	Wago (white plug)
A0722	Ensto white plug + adapter
A0725	Wieland (black plug)
A0726	Wago (black plug)
A0727	Ensto black plug + adapter

Plug for quick connection of the luminaire, 3-pole irreversible to be snapped (Snap-in), with integrated locking device, H07 V2-U HT90° 1.5 mm² cables, for the connection to the terminal block of the luminaire. Connection for single-circuit wiring: order white plug. Connection for twin-circuit, dimmable, emergency wiring: order white plug plus black plug.
This accessory is suitable for square products only.



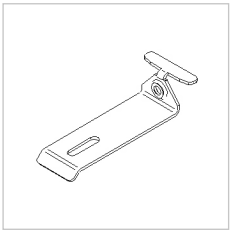
Code	Item
A0798	621x621 frame + brackets

Adapter frame in white-painted steel, for installing luminaries with dimensions of 596x596 mm for pull-up installations on plasterboard false ceilings.
This accessory is suitable for square products only.



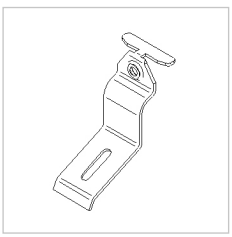
Code	Item
A0173	15HI Brackets - L320-L350-L450 The pack contains 4 pieces.

Galvanised steel fixing bracket for pull-up installation on plasterboard. Pack for 1 luminaire.
Excursion min. 0 mm, max. 25 mm.
This accessory is suitable for square products only.



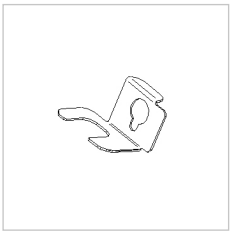
Code	Item
A0177	15ZH Brackets - L320-L350-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel. Pack for 1 luminaire.
For square luminaires with louvre (excursion min. 0 mm, max. 60 mm), with diffuser and glass (excursion min. 15 mm, max. 60 mm).
For rectangular luminaires (excursion min. 45 mm, max. 72 mm), with diffuser and glass (excursion min. 27 mm, max. 65 mm).
Suitable for pull-up installation on plasterboard.



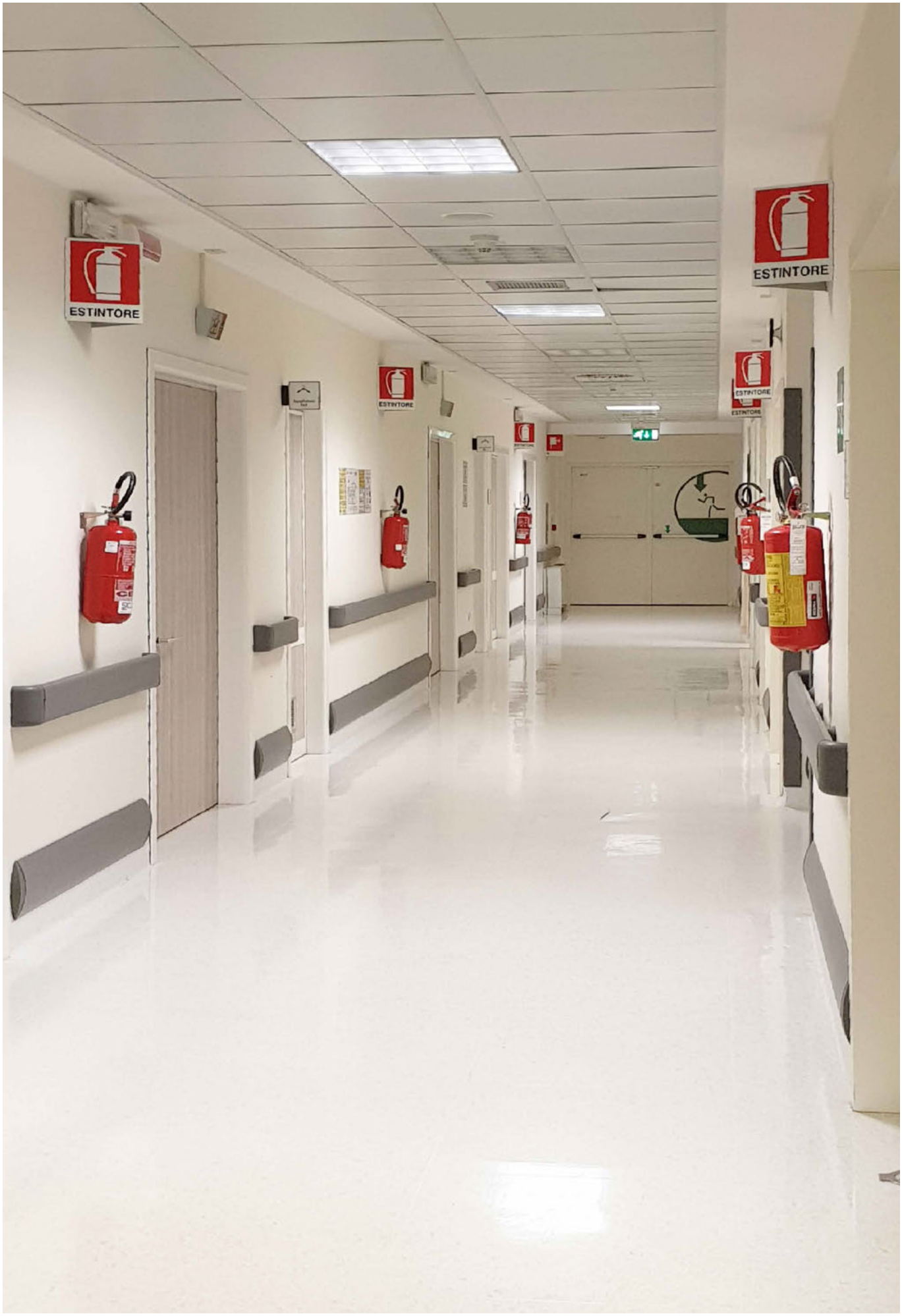
Code	Item
A0170	15BS Brackets - L320-L400-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel for ceiling pull-up installation. Pack for 1 luminaire.
For rectangular luminaires with louvre (excursion min. 18 mm, max. 45 mm), with diffuser (excursion min. 0 mm, max. 40 mm).
Not suitable for diffused light recessed luminaires.



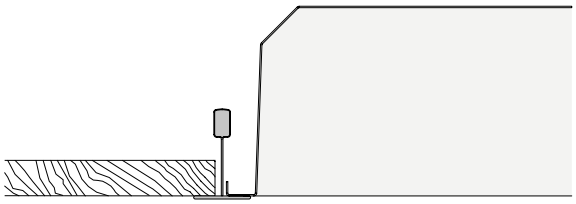
Code	Item
A0179	15LB Brackets - L320-350 met.pan. The pack contains 4 pieces.

Fixing bracket in galvanised steel for installation coplanar with metal panels with concealed structure. Pack for 1 luminaire.
For square luminaires with louvre, mounting in two positions (23/36 mm, 53/66 mm) with diffuser (36 mm and 66 mm).
Not suitable for diffused light recessed luminaires.

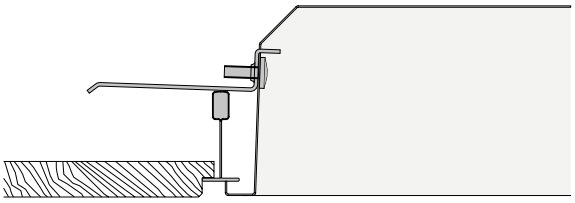

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/ L 320 Mounting details

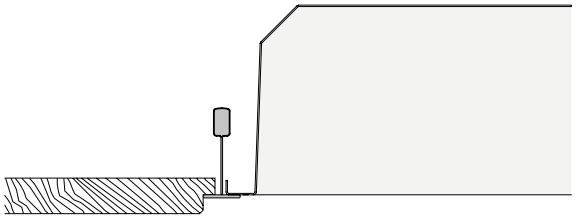
H80 version - 596x596



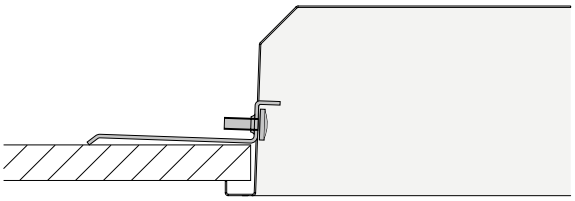
Panels in mineral fibre
with exposed structure 600x600.



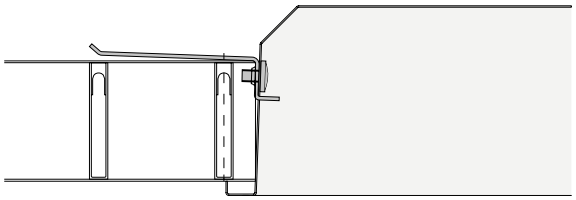
Panels in mineral fibre with decoration 600x600,
small voids.
Installed flush with bracket accessory 15 ZH.



Panels in mineral fibre
with decoration in relief 600x600.

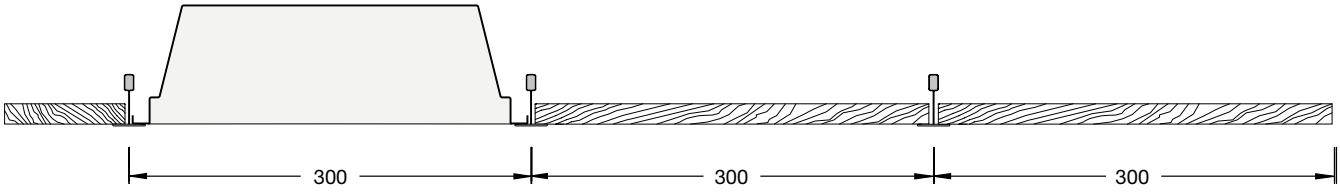


Plasterboard.
Installed flush with bracket accessory 15 ZH.



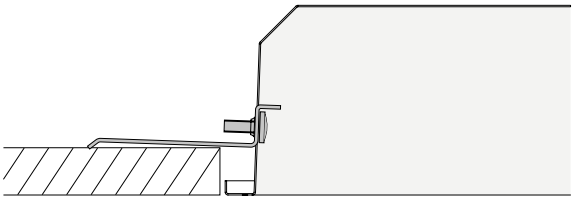
Pull-up installation on grid false ceilings.
Installed flush with bracket accessory 15 ZH.

H80 version - 296x1196

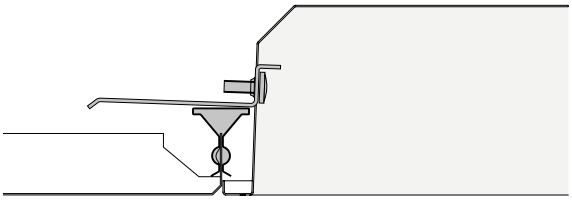


Note: rectangular luminaires have a width of 296mm.
When installed on 600mm wide panels with exposed structure (600x600 or 600x1200), a further T profile must be used.

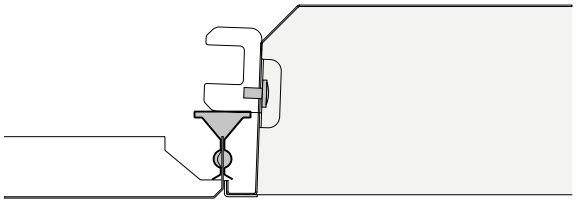
H80 version - 599x599



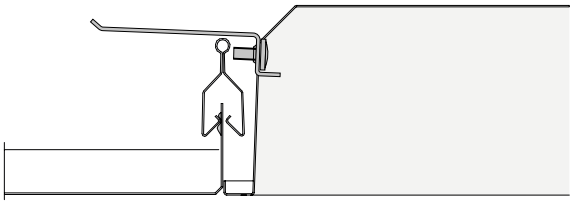
Plasterboard.
Installed flush with bracket accessory 15 ZH.



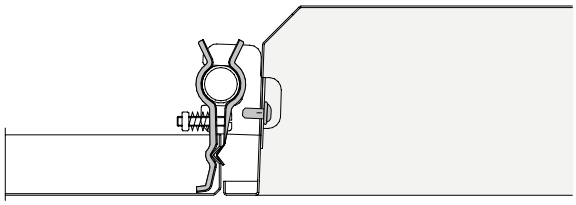
Metal panels ith structures 600x600.
Installed flush with bracket accessory 15 ZH.



Metal panels with structures 600x600.
Installed flush with bracket accessory 15 LB.

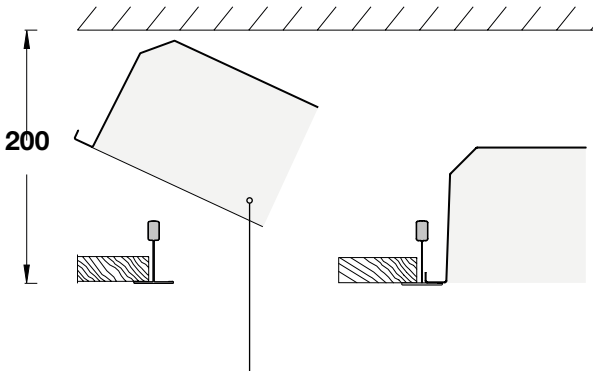


Metal panels with structures 600x600.
Installed flush with bracket accessory 15 ZH.

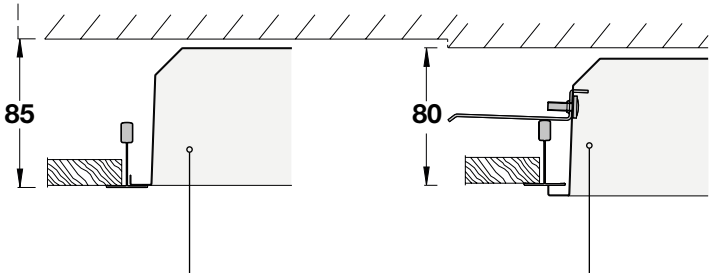


Metal panels with structures 600x600.
Installed flush with bracket accessory 15 LB.

H80 version



Installation following false ceiling mounting, supported by the exposed structure, minimum void of 200 mm from the structure's lower edge.

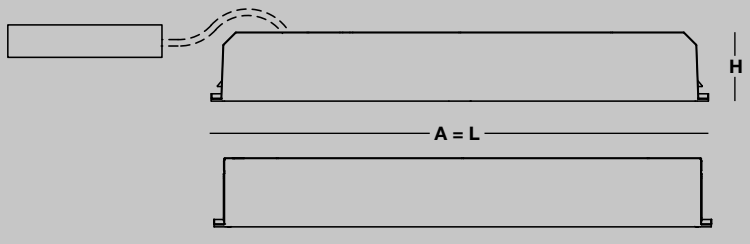


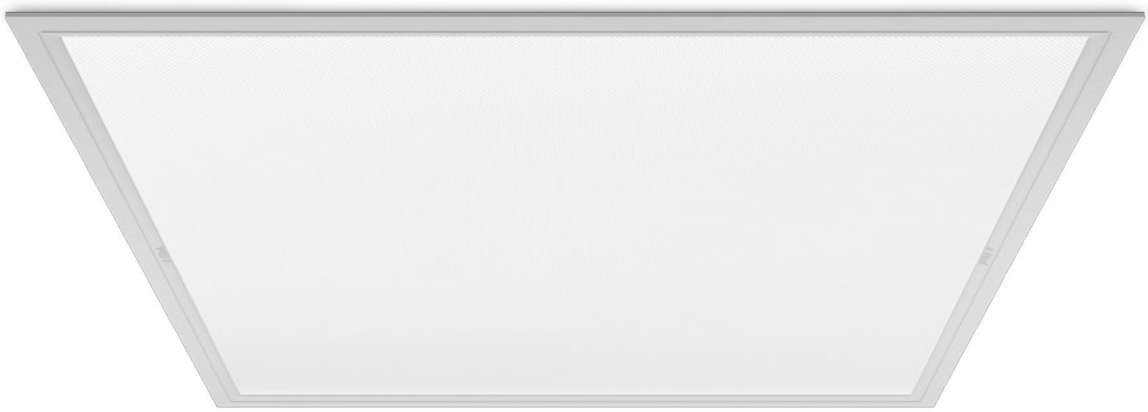
Installation simultaneously with the false ceiling, minimum void of 85 mm from the structure's lower edge.

Minimum void of 80 mm from the structure's lower edge.
Luminaires on request, installed flush with bracket accessory 15 ZH.



Manitou canteen
Cavazzona (MO)
Italia/Italy





L 340 Diffused Light

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Perimetral frame in white polycarbonate.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Wiring on a separate unit.
Class II.

INSTALLATION

Lay-on or pull-up installation using the frame accessory.

APPLICATIONS

In environments requiring protection and simplified cleaning.
Hospitals, pharmaceutical, chemical, aseptic laboratories, sterilised rooms.
Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

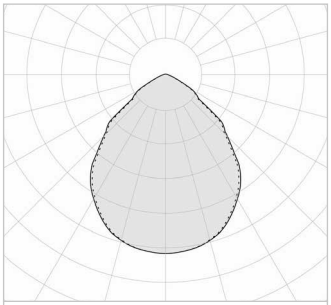
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- diffuser in SP prismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- emergency versions

L 340 Diffused Light LGS

EP | D | 650°C | IP40 | 1J | IK06 | Classe II | Driver/LED SELV | HACCP





Code 23857 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 340 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23857	L 340 25W/840 LGS 596x596	29	3785	4000	>80	596x596x80
23881	L 340 29W/940 LGS 596x596	35	3611	4000	>90	596x596x80
23858	L 340 38W/840 LGS 596x596	45	5677	4000	>80	596x596x80
23859	L 340 45W/840 LGS 596x596	52	6537	4000	>80	596x596x80
23882	L 340 45W/940 LGS 596x596	52	5361	4000	>90	596x596x80

L 340 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23863	L 340 25W/840 DALI LGS 596x596	29	3785	4000	>80	596x596x80
23885	L 340 29W/940 DALI LGS 596x596	35	3611	4000	>90	596x596x80
23864	L 340 38W/840 DALI LGS 596x596	43	5677	4000	>80	596x596x80
23865	L 340 45W/840 DALI LGS 596x596	50	6537	4000	>80	596x596x80
23886	L 340 45W/940 DALI LGS 596x596	52	5361	4000	>90	596x596x80

L 340 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23869	L 340 25W/840 EP LGS 596x596	30	3785	4000	>80	596x596x80
23889	L 340 29W/940 EP LGS 596x596	36	3611	4000	>90	596x596x80
23870	L 340 38W/840 EP LGS 596x596	46	5677	4000	>80	596x596x80
23871	L 340 45W/840 EP LGS 596x596	53	6537	4000	>80	596x596x80
23890	L 340 45W/940 EP LGS 596x596	53	5361	4000	>90	596x596x80

L 340 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23860	L 340 25W/840 LGS 621x621	29	3785	4000	>80	621x621x80
23883	L 340 29W/940 LGS 621x621	35	3611	4000	>90	621x621x80
23861	L 340 38W/840 LGS 621x621	45	5677	4000	>80	621x621x80
23862	L 340 45W/840 LGS 621x621	52	6537	4000	>80	621x621x80
23884	L 340 45W/940 LGS 621x621	52	5361	4000	>90	621x621x80

L 340 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23866	L 340 25W/840 DALI LGS 621x621	29	3785	4000	>80	621x621x80
23887	L 340 29W/940 DALI LGS 621x621	35	3611	4000	>90	621x621x80
23867	L 340 38W/840 DALI LGS 621x621	43	5677	4000	>80	621x621x80
23868	L 340 45W/840 DALI LGS 621x621	50	6537	4000	>80	621x621x80
23888	L 340 45W/940 DALI LGS 621x621	52	5361	4000	>90	621x621x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

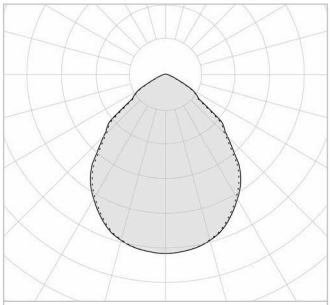
L 340 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23891	L 340 29W/940 EP LGS 621x621	36	3611	4000	>90	621x621x80
23872	L 340 25W/840 EP LGS 621x621	30	3785	4000	>80	621x621x80
23873	L 340 38W/840 EP LGS 621x621	46	5677	4000	>80	621x621x80
23874	L 340 45W/840 EP LGS 621x621	53	6537	4000	>80	621x621x80
23892	L 340 45W/940 EP LGS 621x621	53	5361	4000	>90	621x621x80

L 340 Diffused Light LGS IP65V

CE | SAFER FLICKER | EP | D | 650°C | IP40 IP65 | 1J | IK06 | Classe II | Driver/LED SELV | HACCP





Code 23972 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 340 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23972	L 340 25W/840 LGS IP65V 596x596	29	3785	4000	>80	596x596x80
23996	L 340 29W/940 LGS IP65V 596x596	35	3611	4000	>90	596x596x80
23973	L 340 38W/840 LGS IP65V 596x596	45	5677	4000	>80	596x596x80
23974	L 340 45W/840 LGS IP65V 596x596	52	6537	4000	>80	596x596x80
23997	L 340 45W/940 LGS IP65V 596x596	52	5361	4000	>90	596x596x80

L 340 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23978	L 340 25W/840 DALI LGS IP65V 596x596	29	3785	4000	>80	596x596x80
24000	L 340 29W/940 DALI LGS IP65V 596x596	35	3611	4000	>90	596x596x80
23979	L 340 38W/840 DALI LGS IP65V 596x596	43	5677	4000	>80	596x596x80
23980	L 340 45W/840 DALI LGS IP65V 596x596	50	6537	4000	>80	596x596x80
24001	L 340 45W/940 DALI LGS IP65V 596x596	52	5361	4000	>90	596x596x80

L 340 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23984	L 340 25W/840 EP LGS IP65V 596x596	30	3785	4000	>80	596x596x80
24004	L 340 29W/940 EP LGS IP65V 596x596	36	3611	4000	>90	596x596x80
23985	L 340 38W/840 EP LGS IP65V 596x596	46	5677	4000	>80	596x596x80
23986	L 340 45W/840 EP LGS IP65V 596x596	53	6537	4000	>80	596x596x80
24005	L 340 45W/940 EP LGS IP65V 596x596	53	5361	4000	>90	596x596x80

L 340 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23975	L 340 25W/840 LGS IP65V 621x621	29	3785	4000	>80	621x621x80
23998	L 340 29W/940 LGS IP65V 621x621	35	3611	4000	>90	621x621x80
23976	L 340 38W/840 LGS IP65V 621x621	45	5677	4000	>80	621x621x80
23977	L 340 45W/840 LGS IP65V 621x621	52	6537	4000	>80	621x621x80
23999	L 340 45W/940 LGS IP65V 621x621	52	5361	4000	>90	621x621x80

L 340 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23981	L 340 25W/840 DALI LGS IP65V 621x621	29	3785	4000	>80	621x621x80
24002	L 340 29W/940 DALI LGS IP65V 621x621	35	3611	4000	>90	621x621x80
23982	L 340 38W/840 DALI LGS IP65V 621x621	43	5677	4000	>80	621x621x80
23983	L 340 45W/840 DALI LGS IP65V 621x621	50	6537	4000	>80	621x621x80
24003	L 340 45W/940 DALI LGS IP65V 621x621	52	5361	4000	>90	621x621x80

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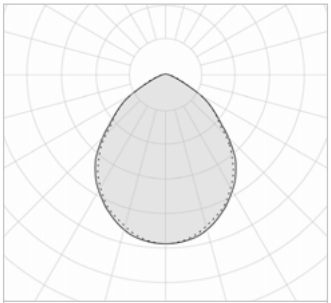
L 340 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23987	L 340 25W/840 EP LGS IP65V 621x621	30	3785	4000	>80	621x621x80
24006	L 340 29W/940 EP LGS IP65V 621x621	36	3611	4000	>90	621x621x80
23988	L 340 38W/840 EP LGS IP65V 621x621	46	5677	4000	>80	621x621x80
23989	L 340 45W/840 EP LGS IP65V 621x621	53	6537	4000	>80	621x621x80
24007	L 340 45W/940 EP LGS IP65V 621x621	53	5361	4000	>90	621x621x80

L 340 Diffused Light VS IP65V

CE | SAFER FLICKER | EP | D | 960°C | IP40 IP65 | 5J | IK08 | Classe II | Driver/LED SELV





Code 23897 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
VS moulded glass, anti-glare, tempered, non-combustible, thickness 4 mm.

L 340 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23897	L 340 25W/840 VS IP65V 596x596	29	3499	4000	>80	596x596x80
23921	L 340 29W/940 VS IP65V 596x596	35	3338	4000	>90	596x596x80
23898	L 340 38W/840 VS IP65V 596x596	45	5248	4000	>80	596x596x80
23899	L 340 45W/840 VS IP65V 596x596	52	6044	4000	>80	596x596x80
23922	L 340 45W/940 VS IP65V 596x596	52	4956	4000	>90	596x596x80

L 340 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23903	L 340 25W/840 DALI VS IP65V 596x596	29	3499	4000	>80	596x596x80
23925	L 340 29W/940 DALI VS IP65V 596x596	35	3338	4000	>90	596x596x80
23904	L 340 38W/840 DALI VS IP65V 596x596	43	5248	4000	>80	596x596x80
23905	L 340 45W/840 DALI VS IP65V 596x596	50	6044	4000	>80	596x596x80
23926	L 340 45W/940 DALI VS IP65V 596x596	52	4956	4000	>90	596x596x80

L 340 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23909	L 340 25W/840 EP VS IP65V 596x596	30	3499	4000	>80	596x596x80
23929	L 340 29W/940 EP VS IP65V 596x596	36	3338	4000	>90	596x596x80
23910	L 340 38W/840 EP VS IP65V 596x596	46	5248	4000	>80	596x596x80
23911	L 340 45W/840 EP VS IP65V 596x596	53	6044	4000	>80	596x596x80
23930	L 340 45W/940 EP VS IP65V 596x596	53	4956	4000	>90	596x596x80

L 340 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23900	L 340 25W/840 VS IP65V 621x621	29	3499	4000	>80	621x621x80
23923	L 340 29W/940 VS IP65V 621x621	35	3338	4000	>90	621x621x80
23901	L 340 38W/840 VS IP65V 621x621	45	5248	4000	>80	621x621x80
23902	L 340 45W/840 VS IP65V 621x621	52	6044	4000	>80	621x621x80
23924	L 340 45W/940 VS IP65V 621x621	52	4956	4000	>90	621x621x80

L 340 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23906	L 340 25W/840 DALI VS IP65V 621x621	29	3499	4000	>80	621x621x80
23927	L 340 29W/940 DALI VS IP65V 621x621	35	3338	4000	>90	621x621x80
23907	L 340 38W/840 DALI VS IP65V 621x621	43	5248	4000	>80	621x621x80
23908	L 340 45W/840 DALI VS IP65V 621x621	50	6044	4000	>80	621x621x80
23928	L 340 45W/940 DALI VS IP65V 621x621	52	4956	4000	>90	621x621x80

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 340 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23912	L 340 25W/840 EP VS IP65V 621x621	30	3499	4000	>80	621x621x80
23931	L 340 29W/940 EP VS IP65V 621x621	36	3338	4000	>90	621x621x80
23913	L 340 38W/840 EP VS IP65V 621x621	46	5248	4000	>80	621x621x80
23914	L 340 45W/840 EP VS IP65V 621x621	53	6044	4000	>80	621x621x80
23932	L 340 45W/940 EP VS IP65V 621x621	53	4956	4000	>90	621x621x80





Unicoop
Pontedera (PI)
Italia/Italy



L 340 Lite

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Perimetral frame in white polycarbonate.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Wiring on a separate unit.
Class II.

INSTALLATION

Lay-on or pull-up installation using the frame accessory.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

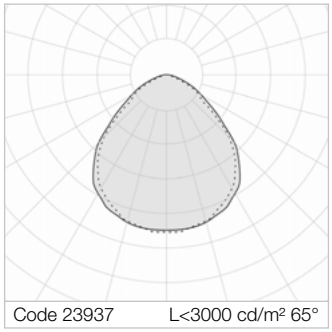
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- Sensor version
- IP65 exposed part version
- diffuser in LGS microprismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- emergency versions

L 340 Lite SP

EP | D | 650°C | IP40 | 1J | IK06 | Classe II | Driver/LED SELV | HACCP





Code 23937 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
SP transparent methacrylate (PMMA) diffuser, prismatic outside, antiglare.

L 340 596x596 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23937	L 343x10W/840 SP 596x596	34	4318	4000	>80	596x596x80
23940	L 343x12W/940 SP 596x596	43	4502	4000	>90	596x596x80

L 340 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23938	L 343x10W/840 DALI SP 596x596	34	4318	4000	>80	596x596x80
23941	L 343x12W/940 DALI SP 596x596	43	4502	4000	>90	596x596x80

L 340 596x596 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23939	L 343x10W/840 EP SP 596x596	35	4318	4000	>80	596x596x80
23942	L 343x12W/940 EP SP 596x596	44	4502	4000	>90	596x596x80

L 340 621x621 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23957	L 343x10W/840 SP 621x621	34	4318	4000	>80	621x621x80
23960	L 343x12W/940 SP 621x621	43	4502	4000	>90	621x621x80

L 340 621x621 - DALI electronic wiring 230V-50/60Hz

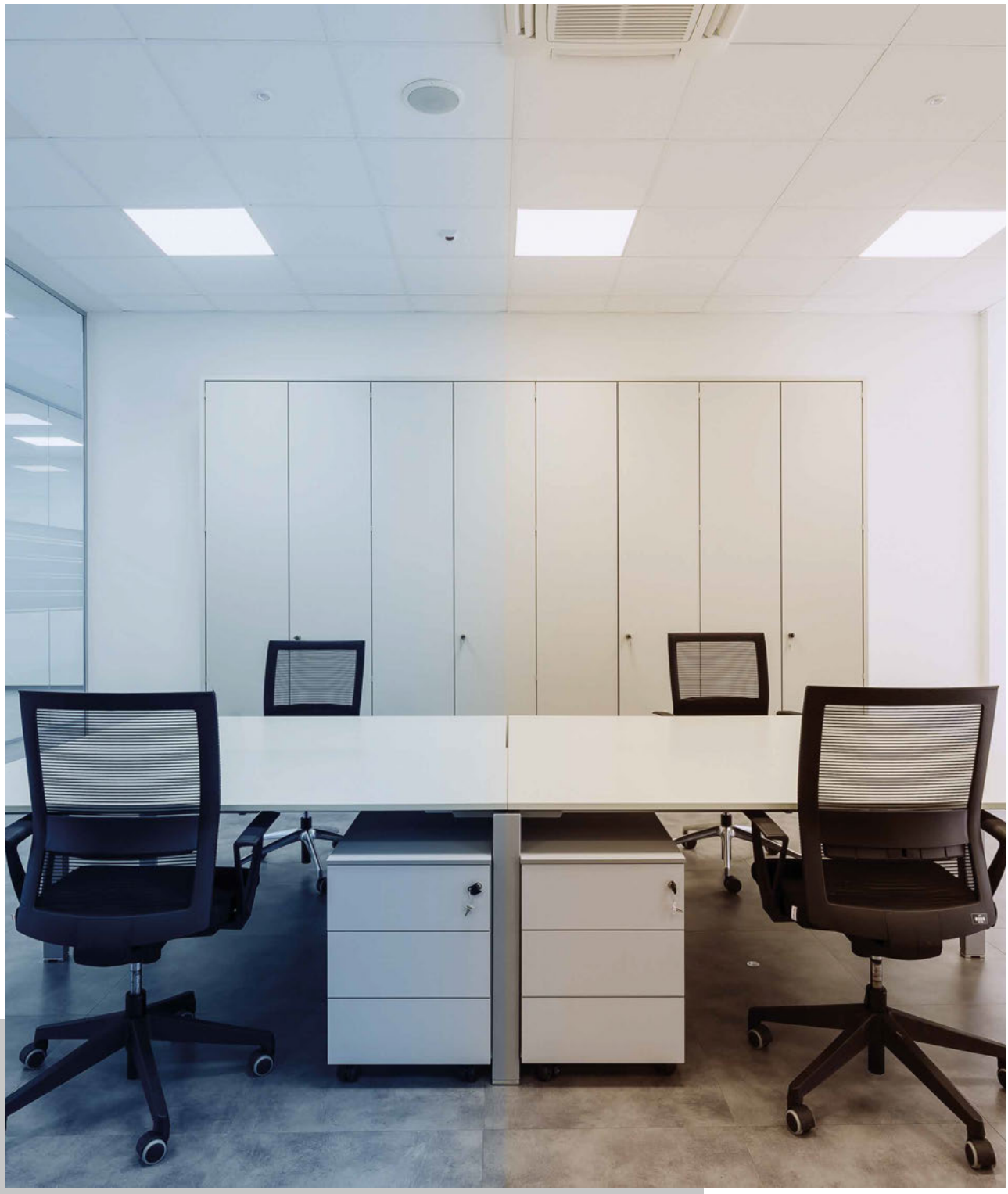
Code	Item	W	lm	K	CRI	L x A x H
23958	L 343x10W/840 DALI SP 621x621	34	4318	4000	>80	621x621x80
23961	L 343x12W/940 DALI SP 621x621	43	4502	4000	>90	621x621x80

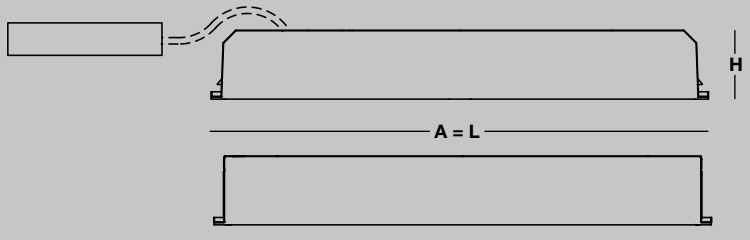
L 340 621x621 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
23959	L 343x10W/840 EP SP 621x621	35	4318	4000	>80	621x621x80
23962	L 343x12W/940 EP SP 621x621	44	4502	4000	>90	621x621x80

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SORIN GROUP
Perfusion Tubing Systems
EUROKRAFT





Porto di Savona
Savona
Italia/Italy



L 340 Tunable White

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Perimetral frame in white polycarbonate.
The 621x621 version is dedicated to false ceilings that have modular dimensions of 625x625.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Wiring on a separate unit.
Class II.

INSTALLATION

Lay-on or pull-up installation using the frame accessory.

APPLICATIONS

Any environments requiring light which aims for the wellness of people.
Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

Tunable White products can be controlled with wired control systems (page 652) or 3F & Casambi (page 656).

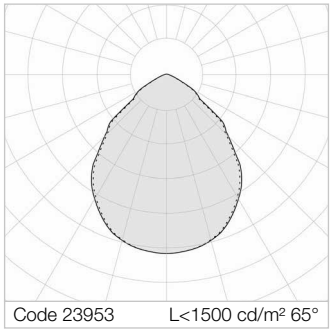
ON REQUEST

- different power levels or colour rendering indices
- diffuser in SP prismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- IP65 exposed part version
- emergency versions

L 340 Tunable White LGS

650°C | IP40 | 1J | IK06 | Classe II | TW | Driver/LED SELV | HACCP





Code 23953 L<1500 cd/m² 65°

Average luminance <1500 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 340 596x596 - DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23953	L 340 25W DALI DT8 TW LGS 596x596	31 30 29	3785	2700 4000 6500	>80	596x596x80

L 340 621x621 - DALI DT8 electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
23954	L 340 25W DALI DT8 TW LGS 621x621	31 30 29	3785	2700 4000 6500	>80	621x621x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 340 | Accessories



Code	Item
A0579	Safety wire with brackets

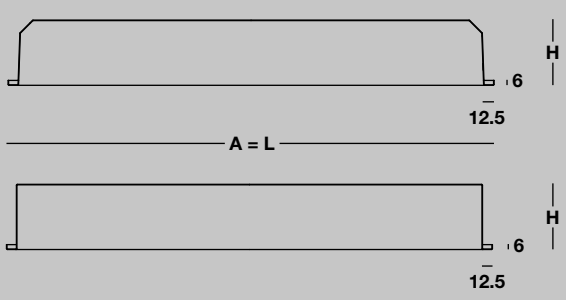
Anti-fall safety cable with pair of brackets for fixing the housing to the building structure. Length 2.5 m.



Code	Item
A0798	621x621 frame + brackets

Adapter frame in white-painted steel, for installing luminaries with dimensions of 596x596 mm for pull-up installations on plasterboard false ceilings.





Ipercoop
Imola (BO)
Italia/Italy



L 350

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L70/B20): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.
Zhaga Book 7 compliant.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Attention: before ordering these products, we ask you to check the Installation instructions if the type of installation requires accessory brackets.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection.

INSTALLATION

Lay-in or pull-up installation with brackets.
Installation and assembly diagrams on page 210.

APPLICATIONS

Environments: architectural, commercial, exhibition areas.
Environments where high levels of light are required.
Warning: 3AO luminaire not suitable for installation in false ceilings without heat removal capacity.
Minimum void of 200 mm required.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

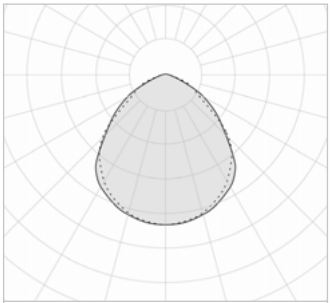
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- SELV luminaires for pull-up installation with brackets
- wiring: CLO (page 662)
- emergency versions

L 350 SP

CE | D | 650°C | IP20 IP54 | 1J | IK06





Code 260092

SP transparent methacrylate (PMMA) diffuser, prismatic exterior, anti-glare, locked to the prepainted white aluminium perimeter frame with sealing gasket, hinged opening.

ON/OFF electronic wiring 230V-50/60Hz

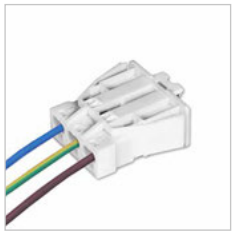
Code	Item	W	lm	K	CRI	L x A x H
260092	L 353x14W LED SP 54V 596x596	47	6297	4000	>80	596x596x80

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
260094	L 353x14W LED DALI SP 54V 596x596	47	6297	4000	>80	596x596x80

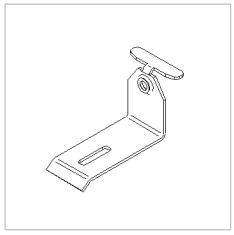
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 350 | Accessories



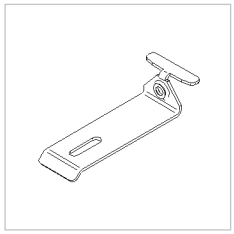
Code	Item
A0720	Wieland (white plug)
A0721	Wago (white plug)
A0722	Ensto white plug + adapter
A0725	Wieland (black plug)
A0726	Wago (black plug)
A0727	Ensto black plug + adapter

Plug for quick connection of the luminaire, 3-pole irreversible to be snapped (Snap-in), with integrated locking device, H07 V2-U HT90° 1.5 mm² cables, for the connection to the terminal block of the luminaire. Connection for single-circuit wiring: order white plug. Connection for twin-circuit, dimmable, emergency wiring: order white plug plus black plug.
This accessory is suitable for square products only.



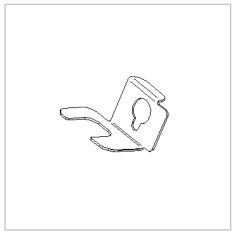
Code	Item
A0173	15HI Brackets - L320-L350-L450 The pack contains 4 pieces.

Galvanised steel fixing bracket for pull-up installation on plasterboard. Pack for 1 luminaire.
Excursion min. 0 mm, max. 25 mm.



Code	Item
A0177	15ZH Brackets - L320-L350-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel. Pack for 1 luminaire.
3AO (excursion min. 0 mm, max. 60 mm).
SP (excursion min. 15 mm, max. 60 mm).
Suitable for pull-up installation on plasterboard.



Code	Item
A0179	15LB Brackets - L320-350 met.pan. The pack contains 4 pieces.

Fixing bracket in galvanised steel for installation coplanar with metal panels with concealed structure. Pack for 1 luminaire.
For square luminaires with louvre, mounting in two positions (23/36 mm, 53/66 mm) with diffuser (36 mm and 66 mm).



Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.

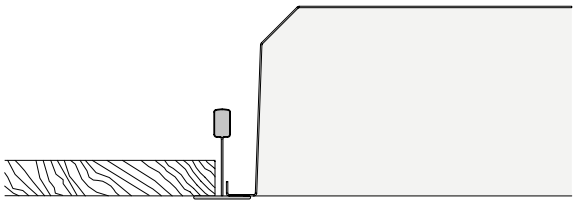


Code	Item
A0798	621x621 frame + brackets

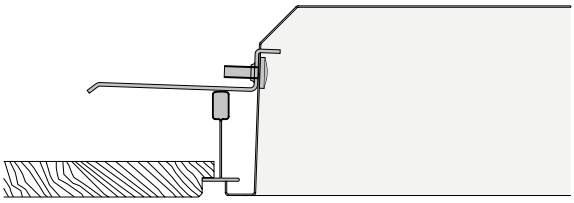
Adapter frame in white-painted steel, for installing luminaries with dimensions of 596x596 mm for pull-up installations on plasterboard false ceilings.
This accessory is suitable for square products only.

/ L 350 Mounting details

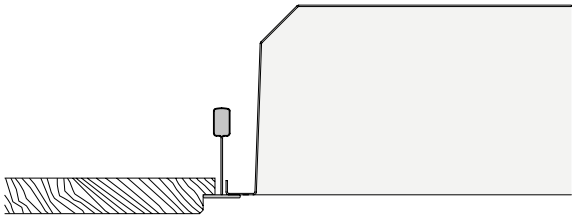
H80 version - 596x596



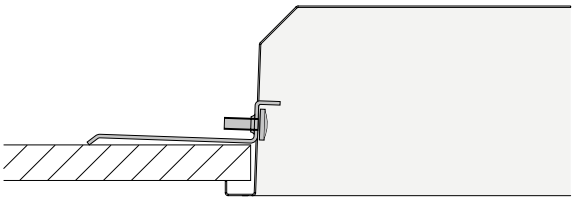
Panels in mineral fibre
with exposed structure 600x600.



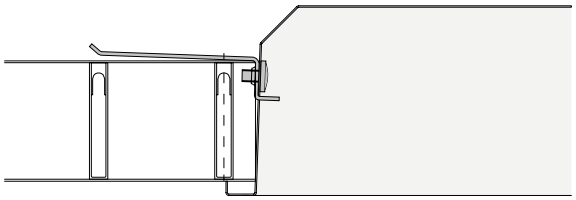
Panels in mineral fibre with decoration 600x600,
small voids.
Installed flush with bracket accessory 15 ZH.



Panels in mineral fibre
with decoration in relief 600x600.

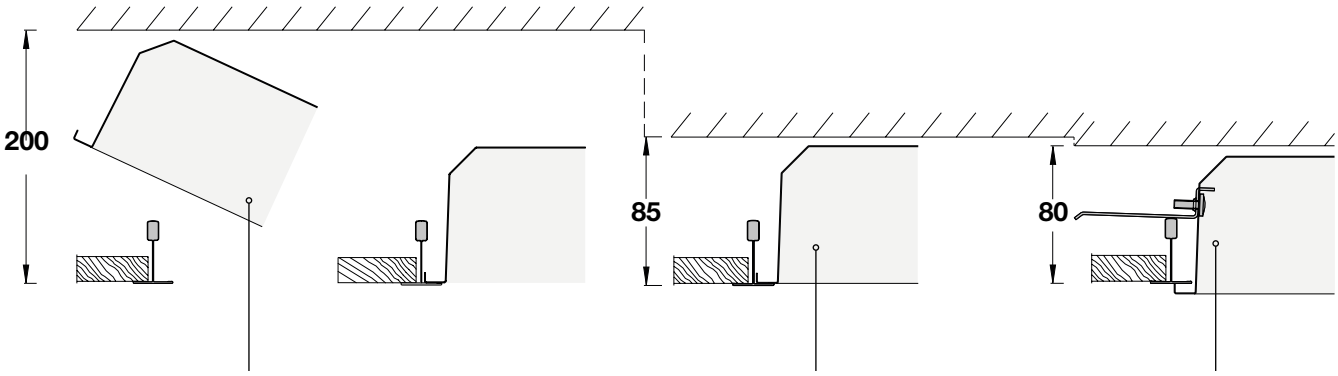


Plasterboard.
Installed flush with bracket accessory 15 ZH.



Pull-up installation on grid false ceilings.
Installed flush with bracket accessory 15 ZH.

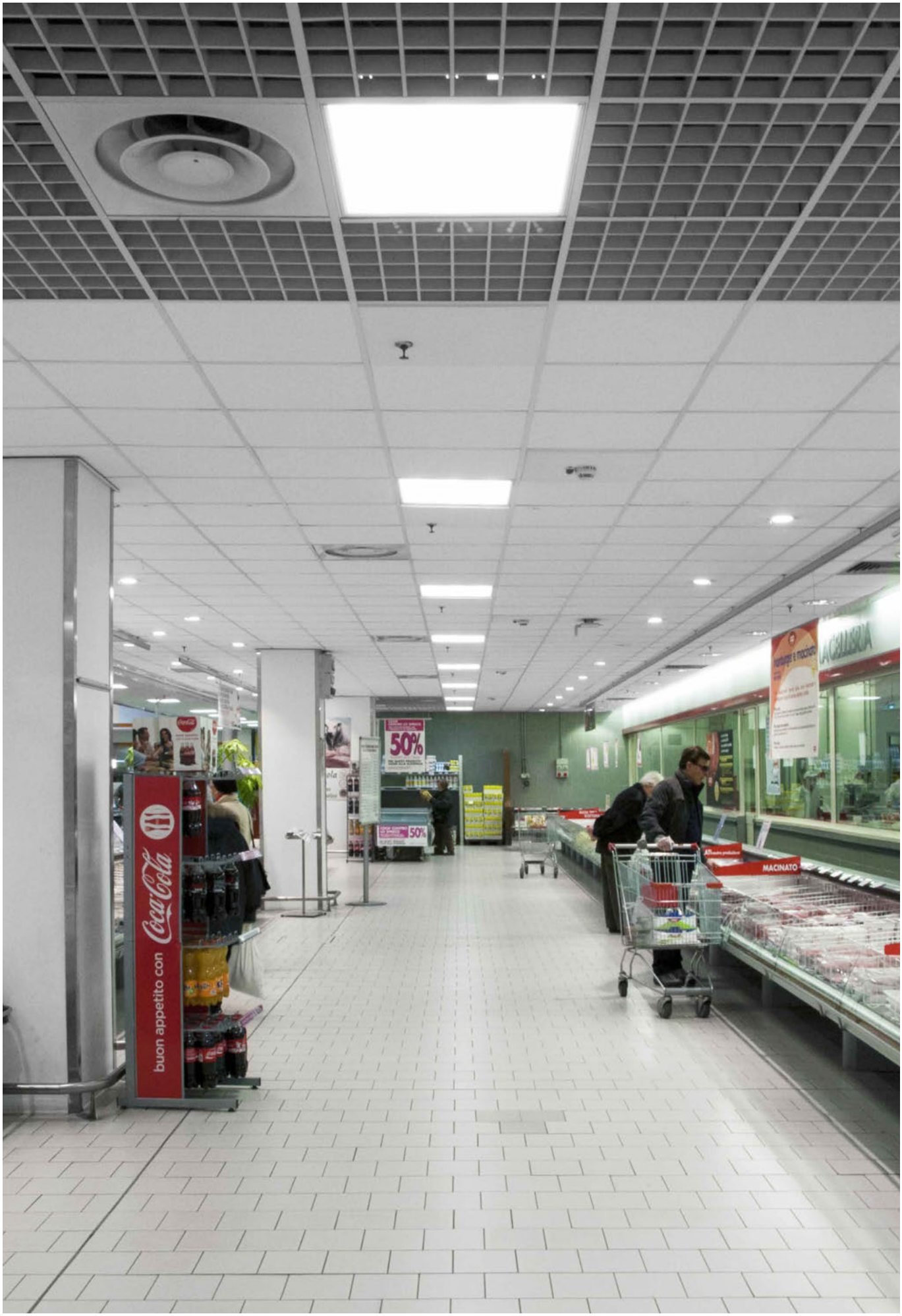
H80 version



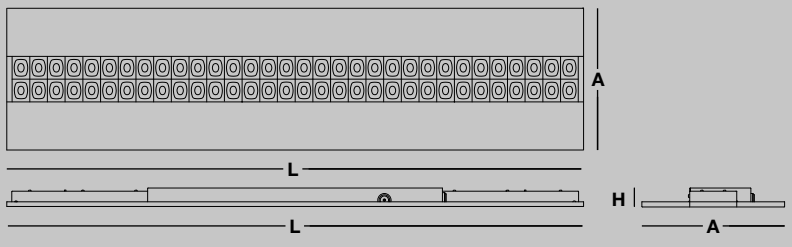
Installation following false ceiling mounting, supported by the exposed structure, minimum void of 200 mm from the structure's lower edge.

Installation simultaneously with the false ceiling, minimum void of 85 mm from the structure's lower edge.

Minimum void of 80 mm from the structure's lower edge.
Luminaires on request, installed flush with bracket accessory 15 ZH.


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Coca-Cola
50%
MACINATO




A
L
H
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A



L 360

ILLUMINOTECHNICAL

Direct symmetric distribution.
Average luminance <2500 cd/m² for angles >45°.
Average luminance <1500 cd/m² for angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester (RAL 9016).
Transparent methacrylate (PMMA) lenses with different facets to optimise the direction of the luminous flux.
Anti-reflective white polycarbonate alveolar optic.
The 308x1246 version is dedicated to false ceilings that have modular dimensions of 312x1250.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Lay-in installation.

APPLICATIONS

Environments with very exacting visual tasks and control of luminance at angles of >45° compared to the LEED certification.
Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

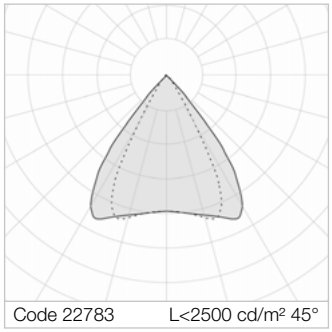
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- anti-reflective black polycarbonate alveolar optic
- different dimensions
- emergency versions

L 360 OCW

650°C IP40 0,2J IK02





Optics Control White - LEED Compliant.

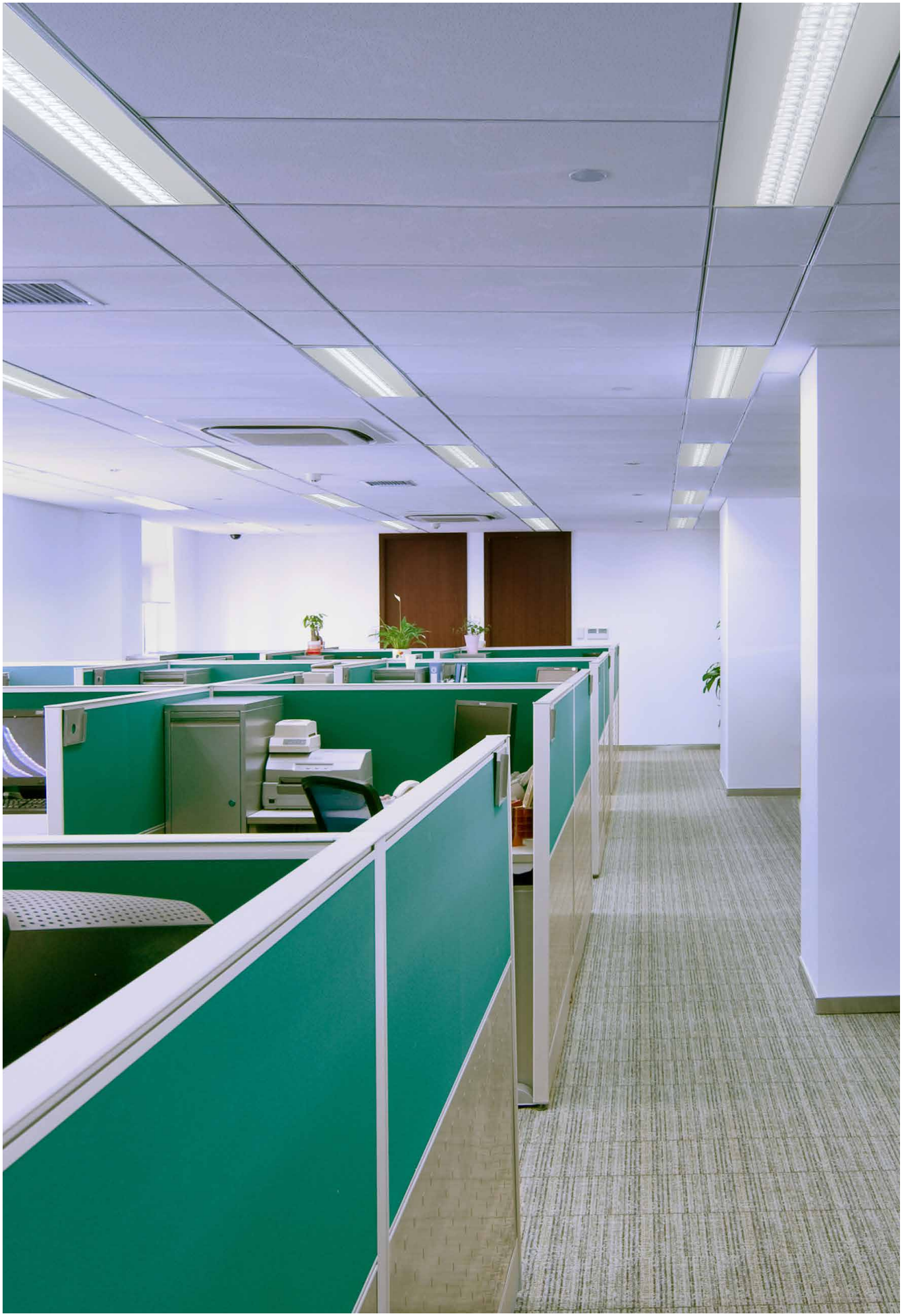
ON/OFF electronic wiring 230V-50/60Hz

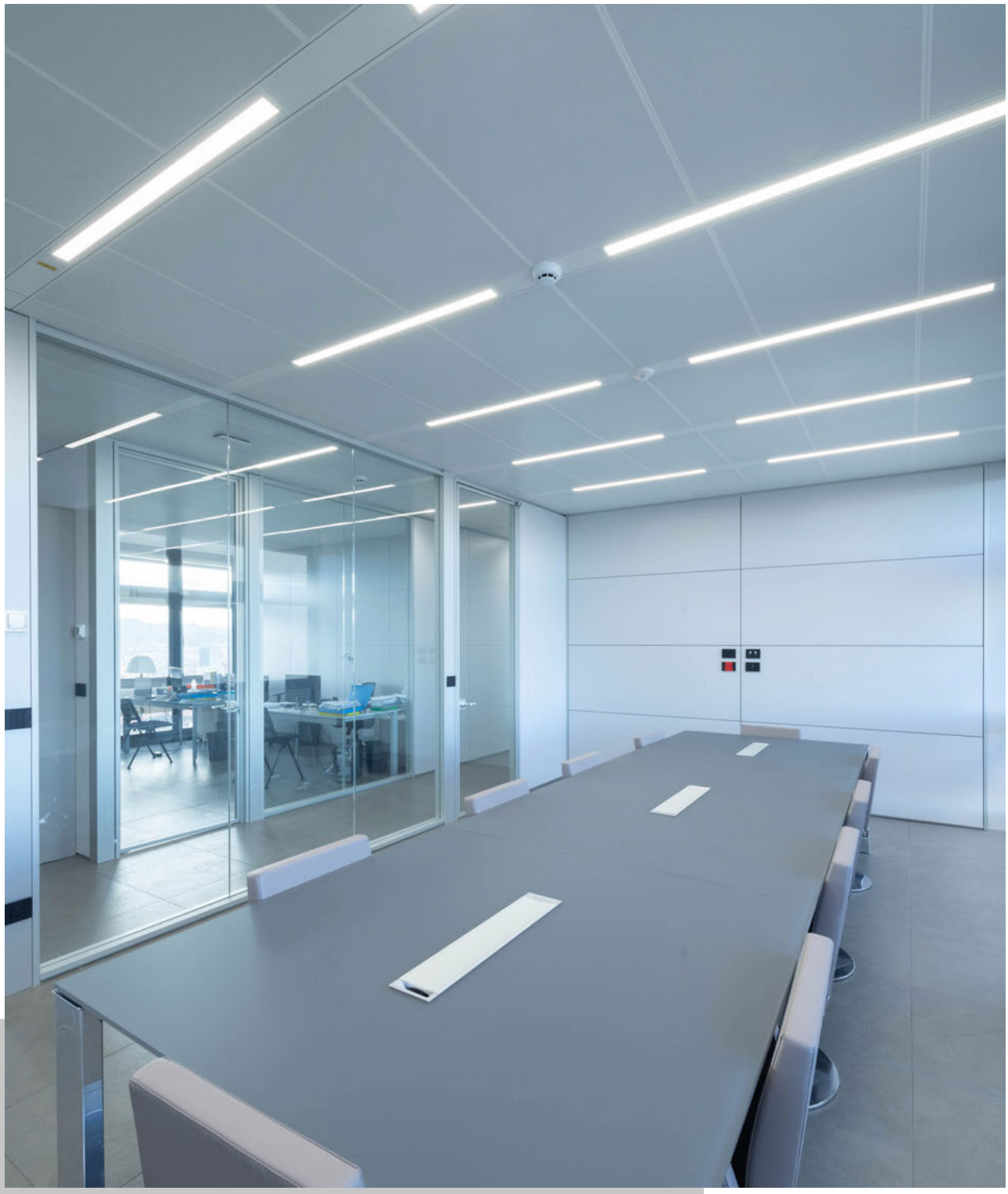
Code	Item	W	lm	K	CRI	L x A x H
22782	L 362x12W LED OCW 296x1196	27	3570	4000	>80	1196x296x40
22786	L 362x12W LED OCW 308x1246	27	3570	4000	>80	1246x308x40

DALI electronic wiring 230V-50/60Hz

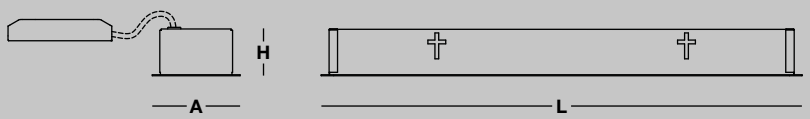
Code	Item	W	lm	K	CRI	L x A x H
22783	L 362x12W LED DALI OCW 296x1196	27	3570	4000	>80	1196x296x40
22787	L 362x12W LED DALI OCW 308x1246	27	3570	4000	>80	1246x308x40

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**





CNA
Bologna
Italia/Italy





L 490

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED module.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in steel painted in white epoxy-polyester.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection of the power supply from the outside of the body with the possibility of cascade connection in / out.
Wiring on a separate unit.
Class II.

INSTALLATION

Pull-up installation with brackets.

ACCESSORIES

Accessories (always necessary) on page 219.

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: architectural, commercial, staterooms, banks.

OP version
Environments where dynamic, soft and diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

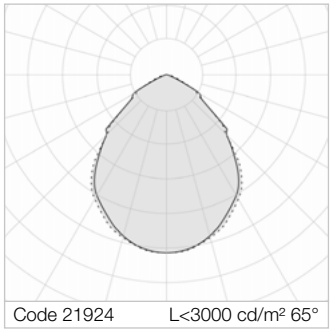
The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: ON-OFF, CLO (page 662)

L 490 GSP





Code 21924 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
SP transparent methacrylate (PMMA) diffuser, prismatic outside, antiglare.
Anti-glare opal polycarbonate filter for brightness uniformity.

DALI electronic wiring 230V-50/60Hz

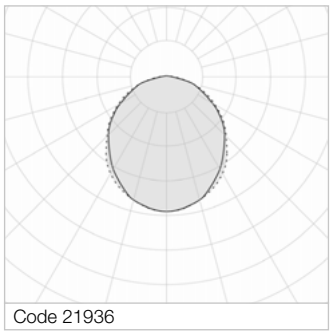
Code	Item	W	lm	K	CRI	L x A x H
21922	L 490 12W LED DALI GSP 125x625	14	1326	4000	>80	625x125x65
21923	L 490 24W LED DALI GSP 125x1225	27	2504	4000	>80	1225x125x65
21924	L 490 30W LED DALI GSP 125x1525	33.5	3134	4000	>80	1525x125x65

DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21925	L 490 12W LED DALI EP GSP 125x625	15	1326	4000	>80	625x125x65
21926	L 490 24W LED DALI EP GSP 125x1225	28	2504	4000	>80	1225x125x65
21927	L 490 30W LED DALI EP GSP 125x1525	34.5	3134	4000	>80	1525x125x65

L 490 OP





Code 21936

OP opal methacrylate (PMMA) flat diffuser, anti-glare.

DALI electronic wiring 230V-50/60Hz

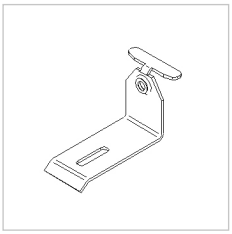
Code	Item	W	lm	K	CRI	L x A x H
21934	L 490 12W LED DALI OP 125x625	14	1475	4000	>80	625x125x65
21935	L 490 24W LED DALI OP 125x1225	27	2786	4000	>80	1225x125x65
21936	L 490 30W LED DALI OP 125x1525	33.5	3487	4000	>80	1525x125x65

DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21937	L 490 12W LED DALI EP OP 125x625	15	1475	4000	>80	625x125x65
21938	L 490 24W LED DALI EP OP 125x1225	28	2786	4000	>80	1225x125x65
21939	L 490 30W LED DALI EP OP 125x1525	34.5	3487	4000	>80	1525x125x65

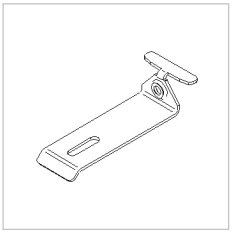
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 490 | Accessories



Code	Item
A0173	15HI Brackets - L320-L350-L450 The pack contains 4 pieces.

Galvanised steel fixing bracket for pull-up installation on plasterboard. Pack for 1 luminaire.
Excursion min. 0 mm, max. 20 mm.

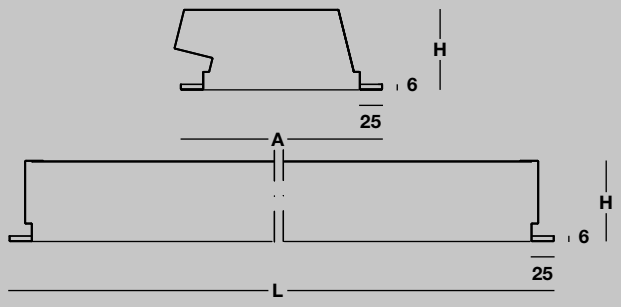


Code	Item
A0177	15ZH Brackets - L320-L350-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel. Pack for 1 luminaire.
Excursion min. 20 mm, max. 40 mm.







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Italia/Italy



L 560

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Attention: before ordering these products, we ask you to check the Installation instructions if the type of installation requires accessory brackets.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Slat ceiling installation.
Installation and assembly diagrams on page 224.

APPLICATIONS

2S version
Environments: with VDTs, schools, offices.
SP version
Environments where demanding visual tasks are performed and soft diffuse light is required for optimal visual comfort and total shielding of the light source.

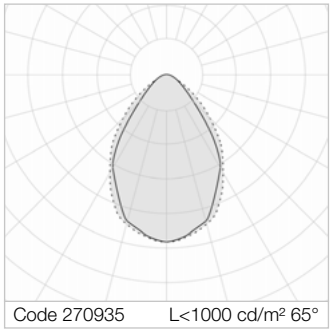
ON REQUEST

- parabolic louvres 2M, 2MG, 2US, 3AO
- different power levels, colour rendering indices and colour temperatures
- diffuser in SMP microprismatic methacrylate (PMMA) or SP polycarbonate, Selfextinguishing V2
- wiring: dimmable, CLO (page 662)
- emergency versions

L 560 2S

650°C IP20 Driver/LED SELV





Code 270935 L<1000 cd/m² 65°

1x - Average luminance <1000 cd/m² for radial angles >65°.
2x - Average luminance <1500 cd/m² for radial angles >65°.
2S parabolic louvre in semi-specular aluminium, non-reflecting, with transverse blades closed at the top.
Prismatic methacrylate (PMMA) diffuser for total shielding of the louvre compartment.
Film protective against dust and finger marks, adhesive, attached to louvre.

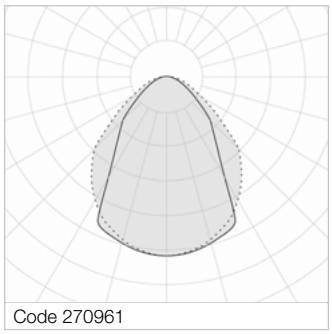
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
270931	L 561x12W LED 2S 221x647	14	1539	4000	>80	647x221x95
270933	L 561x24W LED 2S 221x1256	27	2906	4000	>80	1256x221x95
270937	L 562x12W LED 2S 221x647	28	2937	4000	>80	647x221x95
270935	L 561x30W LED 2S 221x1556	34	3637	4000	>80	1556x221x95
270939	L 562x24W LED 2S 221x1256	54	5547	4000	>80	1256x221x95
270941	L 562x30W LED 2S 221x1556	66	6943	4000	>80	1556x221x95

L 560 SP

650°C IP20 IP54 1J IK06 Driver/LED SELV





Code 270961

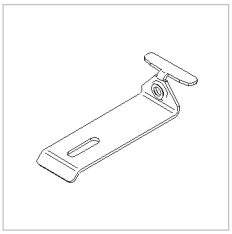
SP transparent methacrylate (PMMA) diffuser, prismatic exterior, anti-glare, locked to the prepainted white aluminium perimeter frame with sealing gasket, hinged opening.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
270957	L 561x12W LED SP 221x647	14	1554	4000	>80	647x221x95
270959	L 561x24W LED SP 221x1256	27	2935	4000	>80	1256x221x95
270963	L 562x12W LED SP 221x647	28	3047	4000	>80	647x221x95
270961	L 561x30W LED SP 221x1556	34	3674	4000	>80	1556x221x95
270965	L 562x24W LED SP 221x1256	54	5755	4000	>80	1256x221x95
270967	L 562x30W LED SP 221x1556	66	7202	4000	>80	1556x221x95

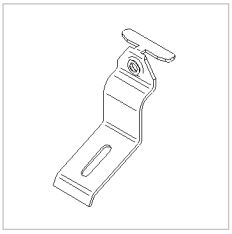
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 560 | Accessories



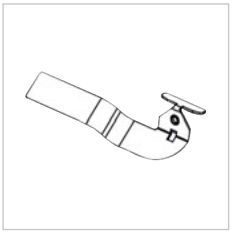
Code	Item
A0177	15ZH Brackets - L320-L350-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel. Pack for 1 luminaire.
Brackets for lay-in installation on load bearing side profiles parallel to the luminaire with louvre (min. adjustment 45 mm, max 72 mm) with diffuser (min. adjustment 27 mm, max 65 mm).



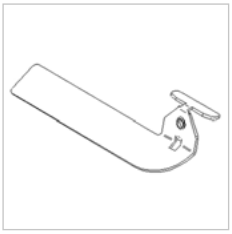
Code	Item
A0170	15BS Brackets - L320-L400-L560 The pack contains 4 pieces.

Fixing bracket in galvanised steel for ceiling pull-up installation. Pack for 1 luminaire.
Brackets for lay-in installation on load bearing side profiles parallel to the luminaire with louvre (min. adjustment 18 mm, max 45 mm) with diffuser (min. adjustment 0 mm, max 40 mm).



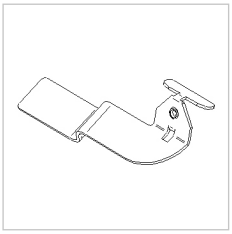
Code	Item
A0174	15DP Brackets - L560 The pack contains 4 pieces.

Head fixings bracket for installation of the luminaire on load bearing structures (transverse by the luminaire). Pack for 1 luminaire.
The bracket protruding 55 mm beyond the head side. Excursion min. 55 mm, max. 75 mm. Not suitable for diffused light recessed luminaires.



Code	Item
A0175	15GF Brackets - L560 The pack contains 4 pieces.

Head fixings bracket for installation of the luminaire on load bearing structures (transverse by the luminaire). Pack for 1 luminaire.
The bracket protruding 60 mm beyond the head side. Excursion min. 37 mm, max. 55 mm.

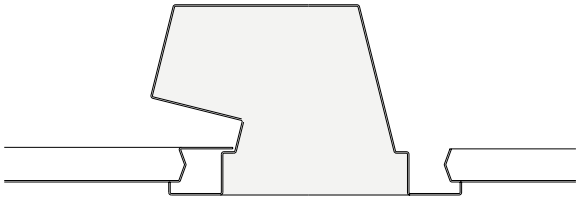


Code	Item
A0176	15XB Brackets - L560 The pack contains 4 pieces.

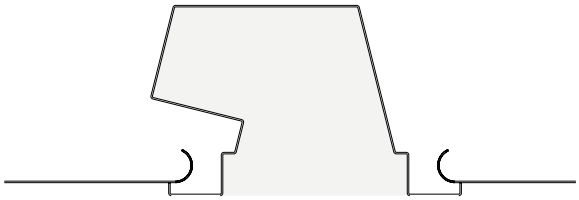
Head fixings bracket for installation of the luminaire on load bearing structures (transverse by the luminaire). Pack for 1 luminaire.
The bracket protruding 55 mm beyond the head side. Excursion min. 20 mm, max. 37 mm.

/ L 560 Mounting details

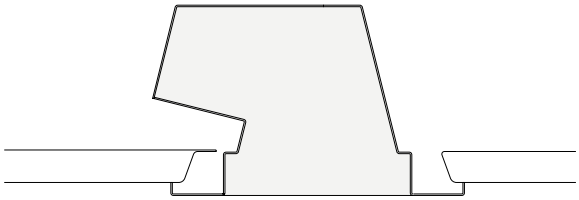
Staves spaced 100



Fixing brackets item 15 DP, 15 GF, 15 XB.

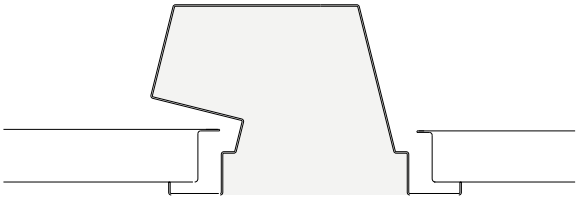


Fixing brackets item 15 DP,15 GF.

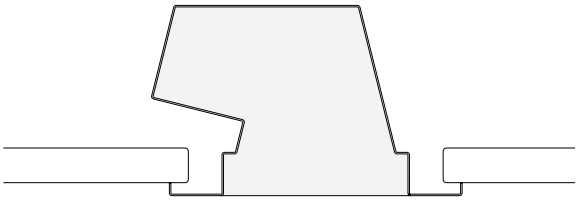


Fixing brackets item 15 DP,15 GF, 15 XB.

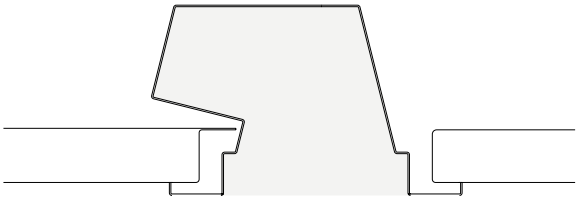
Staves spaced 100 - 200



Fixing brackets item 15 DP, 15 GF.



Fixing brackets item 15 DP, 15 GF.



Fixing brackets item 15 DP, 15 GF.

Spacing of load-bearing profiles



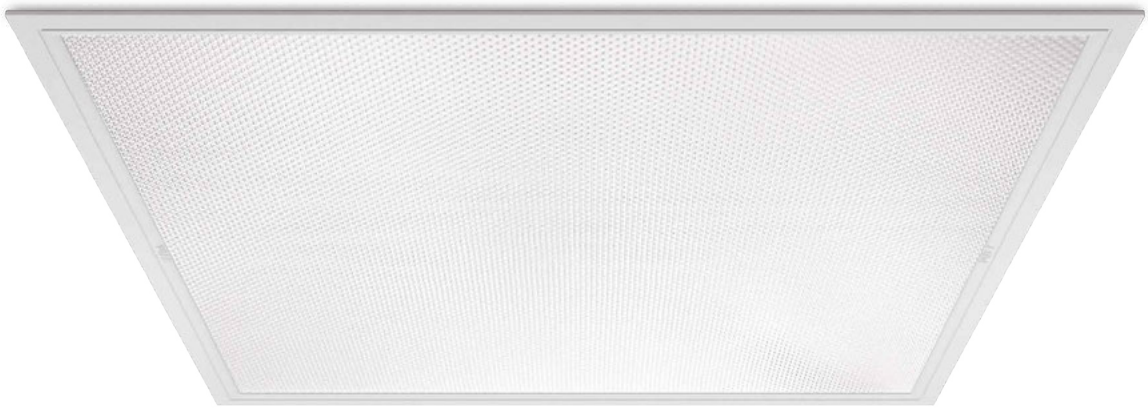
For perfect installation of the luminaires, the load-bearing profile sections should be positioned at the distances indicated above (net space between profiles).







Ospedale Maggiore "Carlo Alberto Pizzardi"
Bologna
Italia/Italy



L 600 Diffused Light

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Perimetral frame in white polycarbonate with sealing gasket.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
5-pole terminal block (L-N-PE-DA/DA) quick connection for line connection with connection capacity 2x2.5 mm² per poles.

INSTALLATION

596 version
Lay-on or pull-up installation using the frame accessory.
599 version
Coplanar installation with inspectable metal panels, through an accessory which is always required.
621 version
Lay-in installation.

APPLICATIONS

Environments: hospital premises, aseptic, sterilised rooms, laboratories. Environments requiring a high level of protection, high levels of light, lamp shielding and simplified cleaning.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process. Environments in which there are foodstuffs or machines with moving parts, with large temperature fluctuations, and generally, in any environments that require total protection against falling fragments, SP PC version with a polycarbonate diffuser can be supplied. If necessary an L/E version i.e. with the smooth part mounted externally, or specific luminaries with laminated glass with suitable frame can also be supplied.

LGS, VSS versions
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

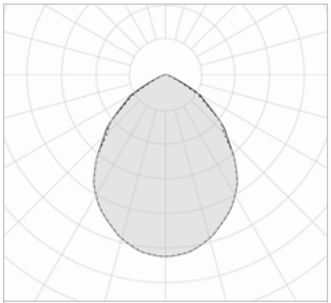
ON REQUEST

- diffuser in OP opal methacrylate (PMMA) or SP polycarbonate, self-extinguishing V2
- different power levels, colour rendering indices and colour temperatures
- 3F Tunable White versione
- wiring: CLO (page 662)
- brackets for pull-up installation
- emergency versions

L 600 Diffused Light LGS

CE | SAFER FLICKER | EP | D | 650°C | IP64 IP65 | 1J | IK06 | | HACCP





Code 22822 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 600 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22821	L 600 28W/840 DALI LGS 596x596	32.5	3978	4000	>80	596x596x95
22839	L 600 35W/940 DALI LGS 596x596	39	3978	4000	>90	596x596x95
22822	L 600 42W/840 DALI LGS 596x596	45	5776	4000	>80	596x596x95
22840	L 600 52W/940 DALI LGS 596x596	55.5	5843	4000	>90	596x596x95
22823	L 600 63W/840 DALI LGS 596x596	71	8000	4000	>80	596x596x95
22841	L 600 75W/940 DALI LGS 596x596	81.5	7936	4000	>90	596x596x95

L 600 596x596 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22830	L 600 28W/840 DALI EP LGS 596x596	33.5	3978	4000	>80	596x596x95
22848	L 600 35W/940 DALI EP LGS 596x596	40	3978	4000	>90	596x596x95
22831	L 600 42W/840 DALI EP LGS 596x596	46	5776	4000	>80	596x596x95
22849	L 600 52W/940 DALI EP LGS 596x596	56.5	5843	4000	>90	596x596x95
22832	L 600 63W/840 DALI EP LGS 596x596	72	8000	4000	>80	596x596x95
22850	L 600 75W/940 DALI EP LGS 596x596	82.5	7936	4000	>90	596x596x95

L 600 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22824	L 600 28W/840 DALI LGS 599x599	32.5	3978	4000	>80	599x599x95
22842	L 600 35W/940 DALI LGS 599x599	39	3978	4000	>90	599x599x95
22825	L 600 42W/840 DALI LGS 599x599	45	5776	4000	>80	599x599x95
22843	L 600 52W/940 DALI LGS 599x599	55.5	5843	4000	>90	599x599x95
22826	L 600 63W/840 DALI LGS 599x599	71	8000	4000	>80	599x599x95
22844	L 600 75W/940 DALI LGS 599x599	81.5	7936	4000	>90	599x599x95

L 600 599x599 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22833	L 600 28W/840 DALI EP LGS 599x599	33.5	3978	4000	>80	599x599x95
22851	L 600 35W/940 DALI EP LGS 599x599	40	3978	4000	>90	599x599x95
22834	L 600 42W/840 DALI EP LGS 599x599	46	5776	4000	>80	599x599x95
22852	L 600 52W/940 DALI EP LGS 599x599	56.5	5843	4000	>90	599x599x95
22835	L 600 63W/840 DALI EP LGS 599x599	72	8000	4000	>80	599x599x95
22853	L 600 75W/940 DALI EP LGS 599x599	82.5	7936	4000	>90	599x599x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 600 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22827	L 600 28W/840 DALI LGS 621x621	32.5	3978	4000	>80	621x621x95
22845	L 600 35W/940 DALI LGS 621x621	39	3978	4000	>90	621x621x95
22828	L 600 42W/840 DALI LGS 621x621	45	5776	4000	>80	621x621x95
22846	L 600 52W/940 DALI LGS 621x621	55.5	5843	4000	>90	621x621x95
22829	L 600 63W/840 DALI LGS 621x621	71	8000	4000	>80	621x621x95
22847	L 600 75W/940 DALI LGS 621x621	81.5	7936	4000	>90	621x621x95

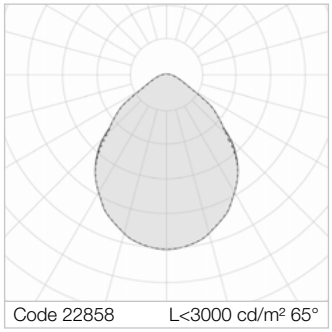
L 600 621x621 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22836	L 600 28W/840 DALI EP LGS 621x621	33.5	3978	4000	>80	621x621x95
22854	L 600 35W/940 DALI EP LGS 621x621	40	3978	4000	>90	621x621x95
22837	L 600 42W/840 DALI EP LGS 621x621	46	5776	4000	>80	621x621x95
22855	L 600 52W/940 DALI EP LGS 621x621	56.5	5843	4000	>90	621x621x95
22838	L 600 63W/840 DALI EP LGS 621x621	72	8000	4000	>80	621x621x95
22856	L 600 75W/940 DALI EP LGS 621x621	82.5	7936	4000	>90	621x621x95

L 600 Diffused Light VS

EP | D | 960°C | IP64 IP65 | 5J | IK08





Code 22858 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
VS moulded glass, anti-glare, tempered, non-combustible, thickness 4 mm.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 600 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22857	L 600 28W/840 DALI VS 596x596	32.5	3863	4000	>80	596x596x95
22875	L 600 35W/940 DALI VS 596x596	39	3863	4000	>90	596x596x95
22858	L 600 42W/840 DALI VS 596x596	45	5612	4000	>80	596x596x95
22876	L 600 52W/940 DALI VS 596x596	55.5	5677	4000	>90	596x596x95
22859	L 600 63W/840 DALI VS 596x596	71	7785	4000	>80	596x596x95
22877	L 600 75W/940 DALI VS 596x596	81.5	7724	4000	>90	596x596x95

L 600 596x596 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22866	L 600 28W/840 DALI EP VS 596x596	33.5	3863	4000	>80	596x596x95
22884	L 600 35W/940 DALI EP VS 596x596	40	3863	4000	>90	596x596x95
22867	L 600 42W/840 DALI EP VS 596x596	46	5612	4000	>80	596x596x95
22885	L 600 52W/940 DALI EP VS 596x596	56.5	5677	4000	>90	596x596x95
22868	L 600 63W/840 DALI EP VS 596x596	72	7785	4000	>80	596x596x95
22886	L 600 75W/940 DALI EP VS 596x596	82.5	7724	4000	>90	596x596x95

L 600 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22860	L 600 28W/840 DALI VS 599x599	32.5	3863	4000	>80	599x599x95
22878	L 600 35W/940 DALI VS 599x599	39	3863	4000	>90	599x599x95
22861	L 600 42W/840 DALI VS 599x599	45	5612	4000	>80	599x599x95
22879	L 600 52W/940 DALI VS 599x599	55.5	5677	4000	>90	599x599x95
22862	L 600 63W/840 DALI VS 599x599	71	7785	4000	>80	599x599x95
22880	L 600 75W/940 DALI VS 599x599	81.5	7724	4000	>90	599x599x95

L 600 599x599 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22869	L 600 28W/840 DALI EP VS 599x599	33.5	3863	4000	>80	599x599x95
22887	L 600 35W/940 DALI EP VS 599x599	40	3863	4000	>90	599x599x95
22870	L 600 42W/840 DALI EP VS 599x599	46	5612	4000	>80	599x599x95
22888	L 600 52W/940 DALI EP VS 599x599	56.5	5677	4000	>90	599x599x95
22871	L 600 63W/840 DALI EP VS 599x599	72	7785	4000	>80	599x599x95
22889	L 600 75W/940 DALI EP VS 599x599	82.5	7724	4000	>90	599x599x95

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 600 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22863	L 600 28W/840 DALI VS 621x621	32.5	3863	4000	>80	621x621x95
22881	L 600 35W/940 DALI VS 621x621	39	3863	4000	>90	621x621x95
22864	L 600 42W/840 DALI VS 621x621	45	5612	4000	>80	621x621x95
22882	L 600 52W/940 DALI VS 621x621	55.5	5677	4000	>90	621x621x95
22865	L 600 63W/840 DALI VS 621x621	71	7785	4000	>80	621x621x95
22883	L 600 75W/940 DALI VS 621x621	81.5	7724	4000	>90	621x621x95

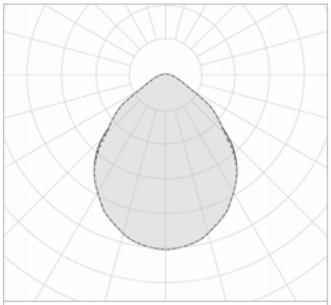
L 600 621x621 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22872	L 600 28W/840 DALI EP VS 621x621	33.5	3863	4000	>80	621x621x95
22890	L 600 35W/940 DALI EP VS 621x621	40	3863	4000	>90	621x621x95
22873	L 600 42W/840 DALI EP VS 621x621	46	5612	4000	>80	621x621x95
22891	L 600 52W/940 DALI EP VS 621x621	56.5	5677	4000	>90	621x621x95
22874	L 600 63W/840 DALI EP VS 621x621	72	7785	4000	>80	621x621x95
22892	L 600 75W/940 DALI EP VS 621x621	82.5	7724	4000	>90	621x621x95

L 600 Diffused Light VSS

CE | SAFER FLICKER | EP | D | 960°C | IP64 IP65 | 5J | IK08 | | HACCP





Code 22894 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
VSS moulded laminated dipped glass, non-combustible, thickness 7 mm.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 600 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22893	L 600 35W/940 DALI VSS 596x596	39	3593	4000	>90	596x596x95
22894	L 600 52W/940 DALI VSS 596x596	55.5	5283	4000	>90	596x596x95
22895	L 600 75W/940 DALI VSS 596x596	81.5	7187	4000	>90	596x596x95

L 600 596x596 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22902	L 600 35W/940 DALI EP VSS 596x596	40	3593	4000	>90	596x596x95
22903	L 600 52W/940 DALI EP VSS 596x596	56.5	5283	4000	>90	596x596x95
22904	L 600 75W/940 DALI EP VSS 596x596	82.5	7187	4000	>90	596x596x95

L 600 621x621 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
22899	L 600 35W/940 DALI VSS 621x621	39	3593	4000	>90	621x621x95
22900	L 600 52W/940 DALI VSS 621x621	55.5	5283	4000	>90	621x621x95
22901	L 600 75W/940 DALI VSS 621x621	81.5	7187	4000	>90	621x621x95

L 600 621x621 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
22908	L 600 35W/940 DALI EP VSS 621x621	40	3593	4000	>90	621x621x95
22909	L 600 52W/940 DALI EP VSS 621x621	56.5	5283	4000	>90	621x621x95
22910	L 600 75W/940 DALI EP VSS 621x621	82.5	7187	4000	>90	621x621x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 600 | Accessories



Code	Item
A0579	Safety wire with brackets

Anti-fall safety cable with pair of brackets for fixing the housing to the building structure. Length 2.5 m.
Accessory compatible with luminaries with dimensions of 596x596 mm or 621x621 mm.



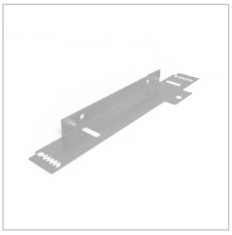
Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.
Accessory compatible with luminaries with dimensions of 599x599 mm.



Code	Item
A0798	621x621 frame + brackets

Adapter frame in white-painted steel, for installing luminaries with dimensions of 596x596 mm for pull-up installations on plasterboard false ceilings.
Accessory not compatible with VSS versions.



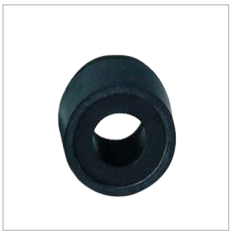
Code	Item
A0537	Pair of flush ceiling mounting brackets

Pair of brackets in galvanised steel, for installing luminaries with dimensions of 599x599 mm coplanar with metal panels with concealed structure. For square luminaires (height profiles min. 29.6 mm, max 62.5 mm) with possible intermediate adjustments of 3.7 mm.



Code	Item
A0187	Anti-condensation cable gland

Anti-condensation diffuser cable gland.
Recommended for installations in environments with temperature sudden changes or subject to condensation.
Suitable only for concealed profiles of max. height 42 mm.



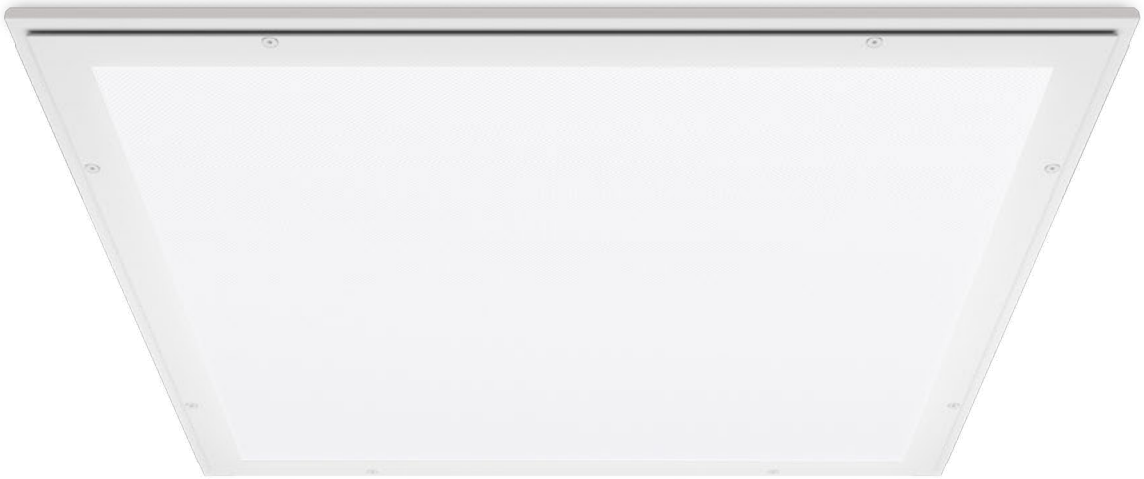
Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.
These accessories must ALWAYS be used with one of the following codes: A0187.





Ospedale S. Maria delle Croci
Ravenna
Italia/Italy



L 650 Diffused Light

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Perimetral frame in white stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
5-pole terminal block (L-N-PE-DA/DA) quick connection for line connection with connection capacity 2x2.5 mm² per poles.

INSTALLATION

596 version
Lay-in installation.
599 version
Coplanar installation with inspectable metal panels, through an accessory which is always required.

APPLICATIONS

Environments: hospital premises, transit areas, laboratories, platform-roof, underpasses.
Environments: sterilized, aseptic.
In hospital environments, food industry or machines with parts in motion, with considerable sudden temperature changes, and in general in any environments requiring total protection against falling fragments, use luminaires with laminated glass only.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.
Environments requiring a high level of protection and simplified cleaning.
Environments with exacting visual tasks, where diffused soft light for optimum visual comfort is required.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

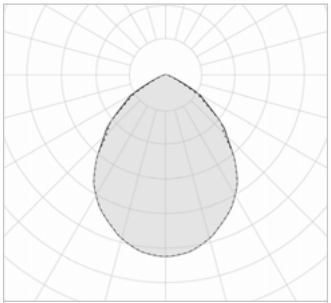
ON REQUEST

- diffuser in OP opal methacrylate (PMMA) or SP polycarbonate, self-extinguishing V2
- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

L 650 Diffused Light LGS

EP | D | 650°C | IP64 IP66 | 1J | IK06 | Driver/LED SELV | HACCP





Code 21857 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
LGS micro-prismatic flat diffuser in transparent methacrylate (PMMA), multi-lenticular exterior, anti-glare.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 650 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21856	L 650 28W/840 DALI LGS 596x596	33	3780	4000	>80	596x596x90
21868	L 650 35W/940 DALI LGS 596x596	40	3780	4000	>90	596x596x90
21857	L 650 42W/840 DALI LGS 596x596	47	5488	4000	>80	596x596x90
21869	L 650 52W/940 DALI LGS 596x596	57	5551	4000	>90	596x596x90
21858	L 650 63W/840 DALI LGS 596x596	69	7605	4000	>80	596x596x90
21870	L 650 75W/940 DALI LGS 596x596	81	7545	4000	>90	596x596x90

L 650 596x596 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21862	L 650 28W/840 DALI EP LGS 596x596	34	3780	4000	>80	596x596x90
21874	L 650 35W/940 DALI EP LGS 596x596	41	3780	4000	>90	596x596x90
21863	L 650 42W/840 DALI EP LGS 596x596	48	5488	4000	>80	596x596x90
21875	L 650 52W/940 DALI EP LGS 596x596	58	5551	4000	>90	596x596x90
21864	L 650 63W/840 DALI EP LGS 596x596	70	7605	4000	>80	596x596x90
21876	L 650 75W/940 DALI EP LGS 596x596	82	7545	4000	>90	596x596x90

L 650 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21859	L 650 28W/840 DALI LGS 599x599	33	3780	4000	>80	599x599x90
21871	L 650 35W/940 DALI LGS 599x599	40	3780	4000	>90	599x599x90
21860	L 650 42W/840 DALI LGS 599x599	47	5488	4000	>80	599x599x90
21872	L 650 52W/940 DALI LGS 599x599	57	5551	4000	>90	599x599x90
21861	L 650 63W/840 DALI LGS 599x599	69	7605	4000	>80	599x599x90
21873	L 650 75W/940 DALI LGS 599x599	81	7545	4000	>90	599x599x90

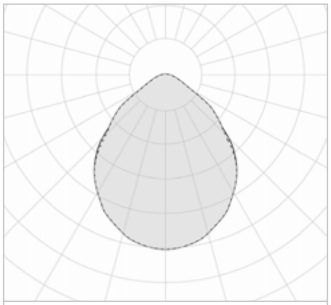
L 650 599x599 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21865	L 650 28W/840 DALI EP LGS 599x599	34	3780	4000	>80	599x599x90
21877	L 650 35W/940 DALI EP LGS 599x599	41	3780	4000	>90	599x599x90
21866	L 650 42W/840 DALI EP LGS 599x599	48	5488	4000	>80	599x599x90
21878	L 650 52W/940 DALI EP LGS 599x599	58	5551	4000	>90	599x599x90
21867	L 650 63W/840 DALI EP LGS 599x599	70	7605	4000	>80	599x599x90
21879	L 650 75W/940 DALI EP LGS 599x599	82	7545	4000	>90	599x599x90

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

L 650 Diffused Light VSS

EP | D | 960°C | IP64 IP66 | 5J | IK08 | Driver/LED SELV | HACCP



Code 21880 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
VSS moulded laminated dipped glass, non-combustible, thickness 7 mm.
Anti-glare opal polycarbonate filter for brightness uniformity.

L 650 596x596 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21880	L 650 28W/840 DALI VSS 596x596	33	3411	4000	>80	596x596x90
21892	L 650 35W/940 DALI VSS 596x596	40	3411	4000	>90	596x596x90
21881	L 650 42W/840 DALI VSS 596x596	47	4965	4000	>80	596x596x90
21893	L 650 52W/940 DALI VSS 596x596	57	5023	4000	>90	596x596x90
21882	L 650 63W/840 DALI VSS 596x596	69	6884	4000	>80	596x596x90
21894	L 650 75W/940 DALI VSS 596x596	81	6830	4000	>90	596x596x90

L 650 596x596 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21886	L 650 28W/840 DALI EP VSS 596x596	34	3411	4000	>80	596x596x90
21898	L 650 35W/940 DALI EP VSS 596x596	41	3411	4000	>90	596x596x90
21887	L 650 42W/840 DALI EP VSS 596x596	48	4965	4000	>80	596x596x90
21899	L 650 52W/940 DALI EP VSS 596x596	58	5023	4000	>90	596x596x90
21888	L 650 63W/840 DALI EP VSS 596x596	70	6884	4000	>80	596x596x90
21900	L 650 75W/940 DALI EP VSS 596x596	82	6830	4000	>90	596x596x90

L 650 599x599 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
21883	L 650 28W/840 DALI VSS 599x599	33	3411	4000	>80	599x599x90
21895	L 650 35W/940 DALI VSS 599x599	40	3411	4000	>90	599x599x90
21884	L 650 42W/840 DALI VSS 599x599	47	4965	4000	>80	599x599x90
21896	L 650 52W/940 DALI VSS 599x599	57	5023	4000	>90	599x599x90
21885	L 650 63W/840 DALI VSS 599x599	69	6884	4000	>80	599x599x90
21897	L 650 75W/940 DALI VSS 599x599	81	6830	4000	>90	599x599x90

L 650 599x599 - DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
21889	L 650 28W/840 DALI EP VSS 599x599	34	3411	4000	>80	599x599x90
21901	L 650 35W/940 DALI EP VSS 599x599	41	3411	4000	>90	599x599x90
21890	L 650 42W/840 DALI EP VSS 599x599	48	4965	4000	>80	599x599x90
21902	L 650 52W/940 DALI EP VSS 599x599	58	5023	4000	>90	599x599x90
21891	L 650 63W/840 DALI EP VSS 599x599	70	6884	4000	>80	599x599x90
21903	L 650 75W/940 DALI EP VSS 599x599	82	6830	4000	>90	599x599x90

L 650 | Accessories



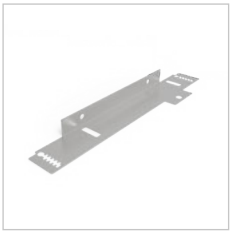
Code	Item
A0579	Safety wire with brackets

Anti-fall safety cable with pair of brackets for fixing the housing to the building structure. Length 2.5 m.
Accessory compatible with luminaries with dimensions of 596x596 mm.



Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.
Accessory compatible with luminaries with dimensions of 599x599 mm.



Code	Item
A0537	Pair of flush ceiling mounting brackets

Pair of brackets in galvanised steel, for installing luminaries with dimensions of 599x599 mm coplanar with metal panels with concealed structure. For square luminaires (height profiles min. 29.6 mm, max 62.5 mm) with possible intermediate adjustments of 3.7 mm.



Code	Item
A0187	Anti-condensation cable gland

Anti-condensation diffuser cable gland.
Recommended for installations in environments with temperature sudden changes or subject to condensation.
Suitable only for concealed profiles of max. height 42 mm.



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.
These accessories must ALWAYS be used with one of the following codes: A0187.





/ 3F Reno

To combine comfort, effectiveness and efficiency: this is the objective of **3F Reno**, the recessed spotlight designed to provide quality lighting in every context, from professional to commercial environments.

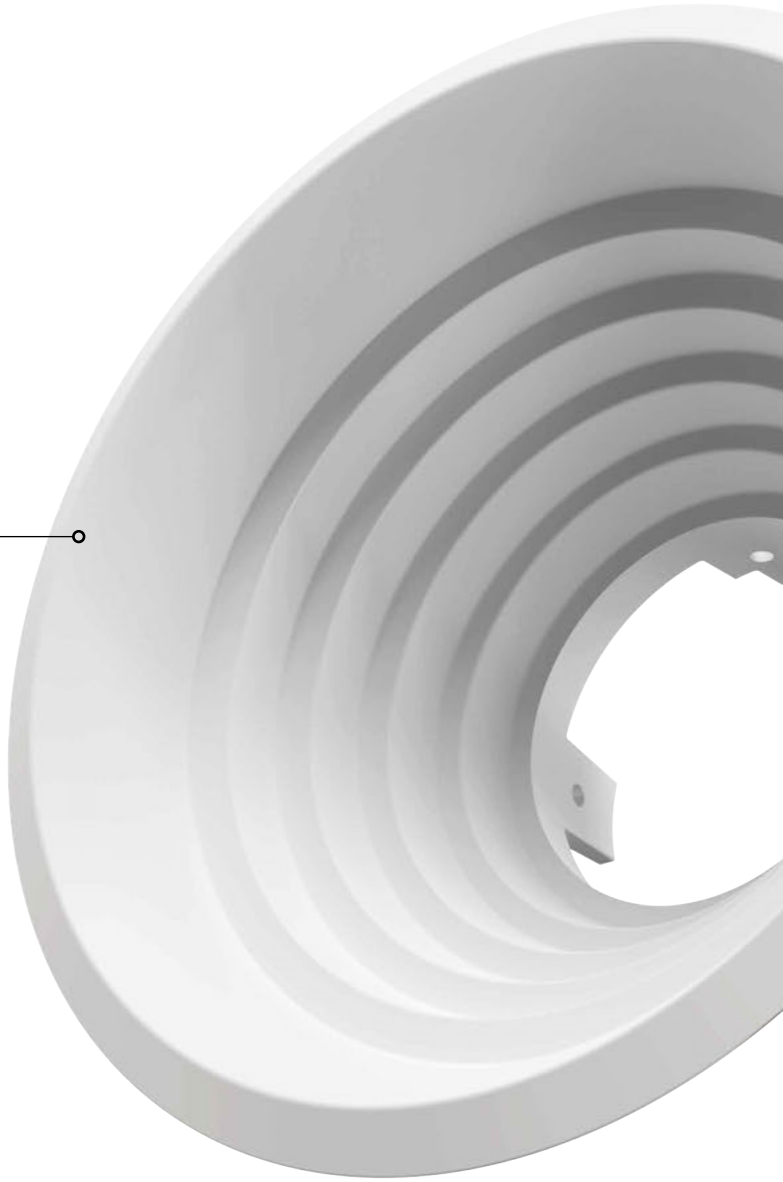
Available in 3 different sizes (100, 150 and 200 millimetre recessed holes), it provides maximum installation flexibility: a wide range of luminous fluxes (from 900 lumen right up to more than 4000 lumen), excellent colour rendering and a high level of visual comfort.

3F Reno is available with 4 different luminous flux distributions: Wide, Spot, Elliptical and UGR.

3F Reno comes in two different colours (black and white) to adapt better to the different contexts it is used in.

3F Reno
Cuneotre Peugeot car dealer
Cuneo, Italy

Polycarbonate **parabola** with graded/concentric rings.



The **SHAPED** light.

3F Reno was developed to obtain the lowest luminance level possible by working with the lens on flow distribution: the percentage of light emitted directly (which therefore does not interact with the reflector) is higher than 95%.

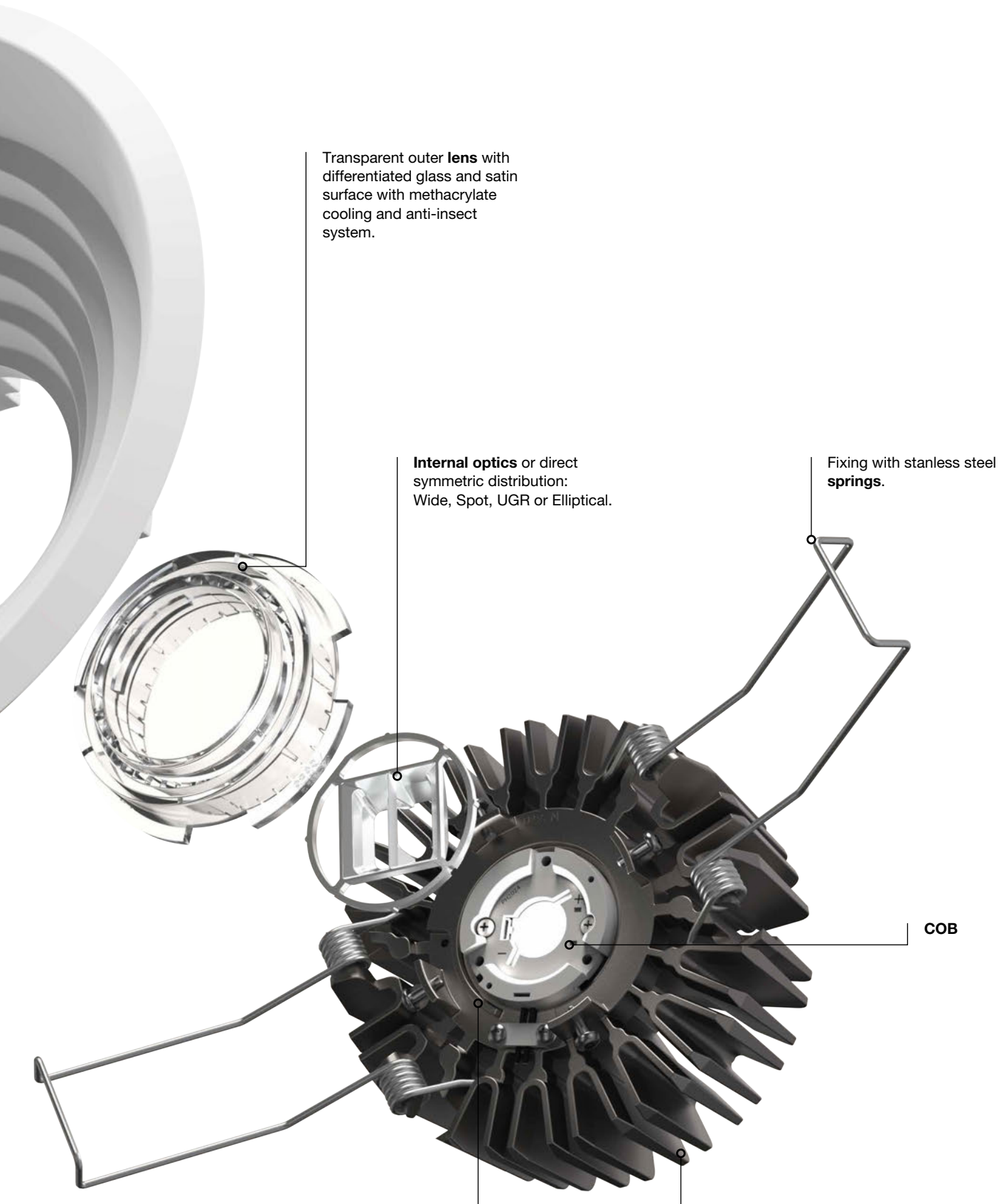
The stepped surface visibly halves the reflective surface: this structure practically eliminates annoying reflections that can affect the viewer's eye even if they are at a discrete distance from the product (as in open plan offices).

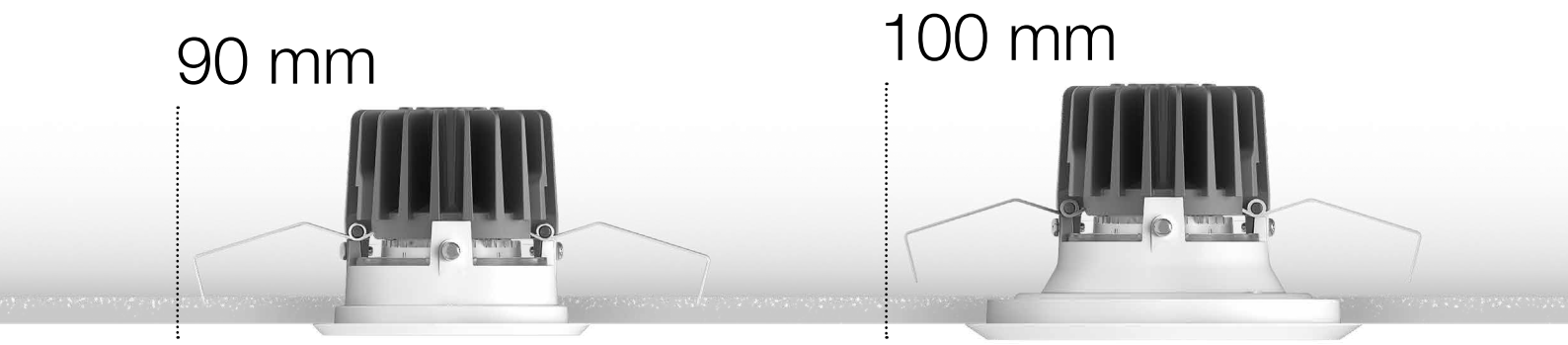
In installations where minimum luminance values are required, the BK version with black reflector has reduced values up to 95% (3F Reno 200 BK WIDE) compared to the WH version made of white polycarbonate.

Finishes

White

Black


Transparent outer **lens** with differentiated glass and satin surface with methacrylate cooling and anti-insect system.
Internal optics or direct symmetric distribution: Wide, Spot, UGR or Elliptical.
Fixing with stanless steel **springs**.
COB
Thermal interface that optimises thermal conductivity and heat transfer, improving both cooling and dissipation.
Die-cast aluminium oversized passive **heat sink**, for excellent thermal management of the LED module.



3F Reno 100

3F Reno 150

A concentrate of **efficiency.**

Every environment is unique: to provide the most appropriate lighting according to specific needs and requirements 3F Reno comes in 3 different sized recessed holes: 100mm, 150mmand 200mm (actual sizes 116mm, 166mm and 216mm).

To facilitate the installation of every product every fixture is supplied with a template to make the hole.

All versions share a significant advantage in terms of practicality: we have developed a highly efficient, compact heat sink that facilitates installation in shallow technical spaces, ensuring that these sizes do not vary regardless of the photometric distribution used (unlike what happens for most products on the market).

135 mm



3F Reno 200

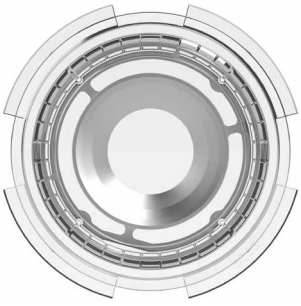
Wide



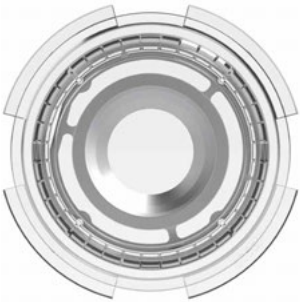
Elliptical

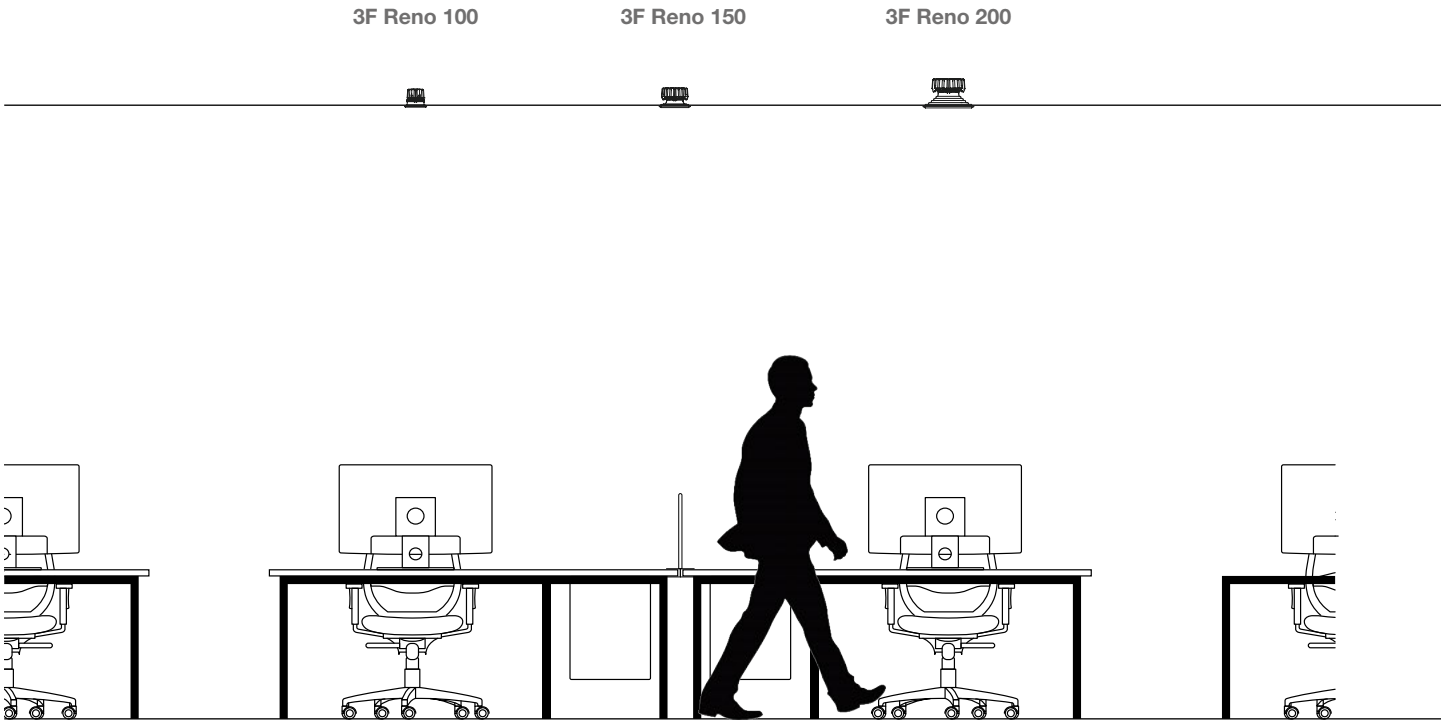


Spot



UGR

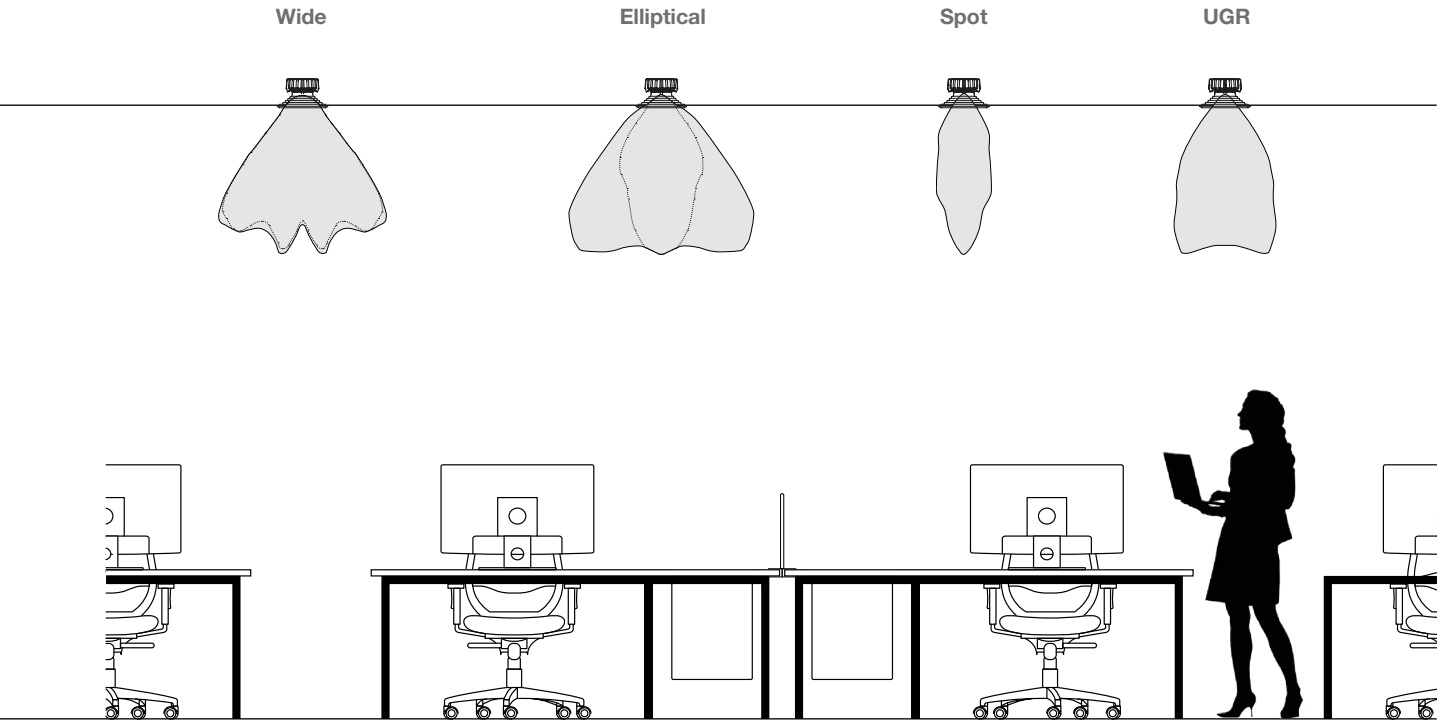




Range

3F Reno

	W	lm	LED	Wiring	Opening angle	Distribution	ø x H
3F Reno White Wide	12 - 44	1288 - 3521	/840 /930	ON/OFF D2D EP	85°	Wide	116 x 95 166 x 107 216 x 142
3F Reno White Elliptical	12 - 44	1368 - 3754	/840 /930	ON/OFF D2D EP	90° - 65°	Elliptical	116 x 95 166 x 107 216 x 142
3F Reno White Spot	12 - 44	1595 - 4414	/840 /930	ON/OFF D2D EP	37°	Spot	116 x 95 166 x 107 216 x 142
3F Reno White UGR	14 - 29	1846 - 3300	/840 /930	ON/OFF D2D EP	65°	UGR	116 x 95 166 x 107 216 x 142



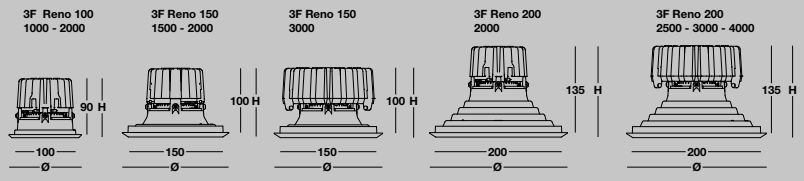
Range

3F Reno

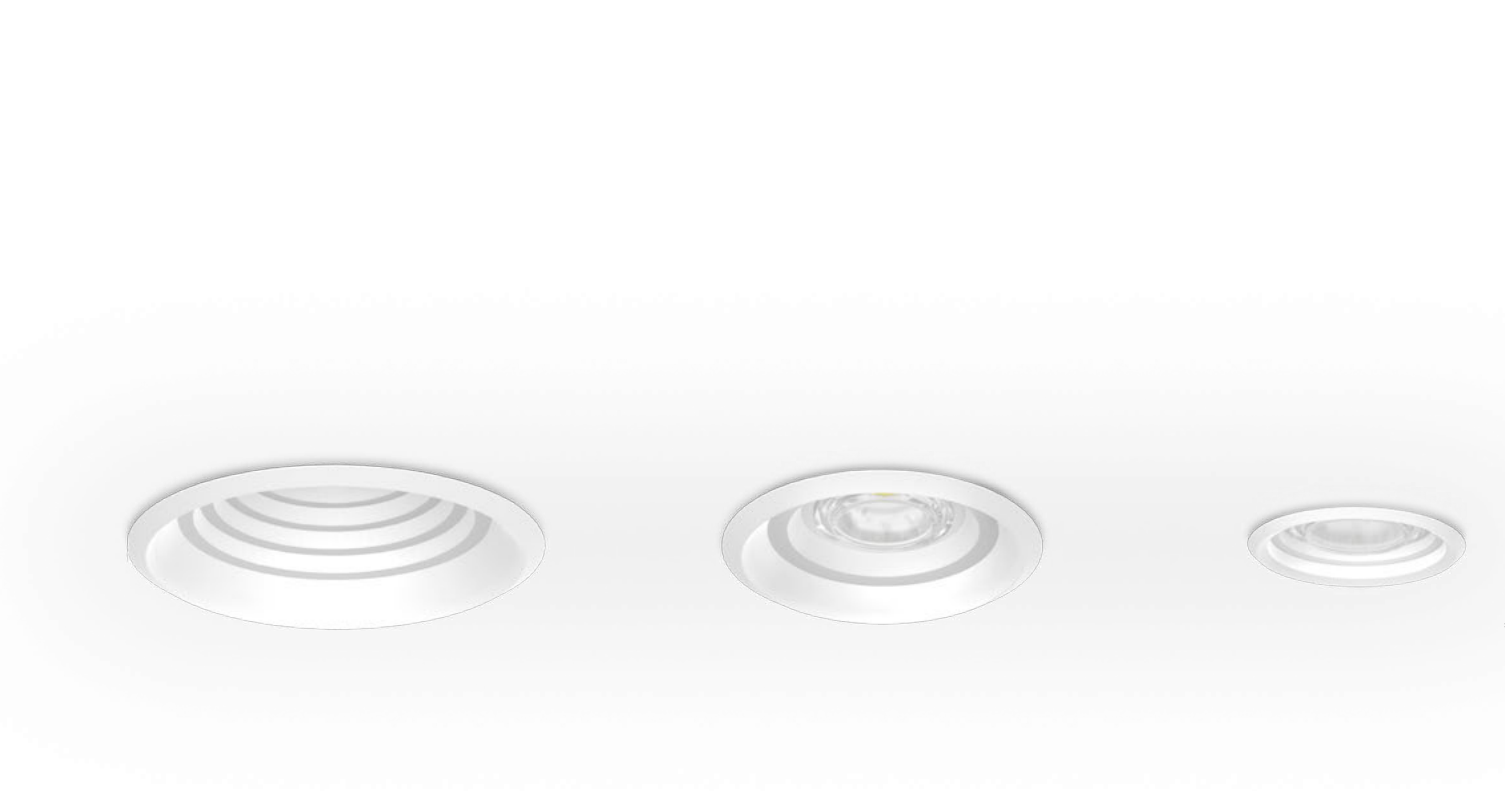
	W	lm	LED	Wiring	Opening angle	Distribution	ø x H
3F Reno Black Wide	20 - 43	1663 - 3013	/840 /930	ON/OFF D2D	84°	Wide	116 x 95 166 x 107 216 x 142
3F Reno Black Elliptical	20 - 43	1872 - 3353	/840 /930	ON/OFF D2D	89° - 62°	Elliptical	116 x 95 166 x 107 216 x 142
3F Reno Black Spot	20 - 43	2319 - 4287	/840 /930	ON/OFF D2D	37°	Spot	116 x 95 166 x 107 216 x 142
3F Reno Black UGR	20 - 29	2461 - 3246	/840 /930	ON/OFF D2D	64°	UGR	116 x 95 166 x 107 216 x 142

/ Recessed luminaires





Concessionario Peugeot Cuneotre
Cuneo
Italia/Italy



3F Reno White

ILLUMINOTECHNICAL

Direct symmetric distribution: wide, spot, UGR, elliptical.
Lifetime (L70/B10): 80000 h. (tq+25°C)
Colour temperature available /840 and /930.

UGR version
Average luminance <1000 cd/m² for radial angles >65°.

SOURCE

Compact LED module.
Colour initial tolerance (MacAdam): SDCM 3.
Zhaga Book 3 compliant.

MECHANICAL

Passive heat dissipator in die-casting aluminium, oversized, for optimum thermal management of the LED module.
Parabolic element with graduated/concentric rings in white polycarbonate.
Transparent external lens with glossy and satin differentiated surfaces, with a cooling and anti-insect system in methacrylate (PMMA).
Internal specular metallic louvre to optimise control of the luminous flux in polycarbonate in Spot, UGR and Elliptical versions.
Fastening spring clips in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Wiring on a separate unit.
Class II.

INSTALLATION

Pull-up installation.

APPLICATIONS

Environments: architectural, commercial, exhibition areas, transit areas, corridors, shops, display windows, service areas.
In false ceilings with narrow voids.

Wide version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
In environments with VDTs, managerial offices and staterooms, public offices and schools.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

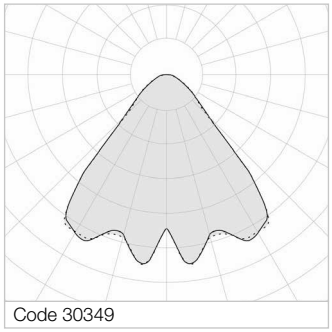
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

3F Reno White Wide

EP | 650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 30349

Wide lens in transparent methacrylate (PMMA).
Photobiological safety RG0, excluding versions 4000 - RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30073	3F Reno 100 WH 1000/930 WIDE	14	1173	3000	>90	116x95
30069	3F Reno 100 WH 1000/840 WIDE	12	1288	4000	>80	116x95
30077	3F Reno 100 WH 2000/840 WIDE	20	1992	4000	>80	116x95
30081	3F Reno 100 WH 2000/930 WIDE	24	1907	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30107	3F Reno 100 WH 1000/930 DALI WIDE	14	1173	3000	>90	116x95
30103	3F Reno 100 WH 1000/840 DALI WIDE	12	1288	4000	>80	116x95
30111	3F Reno 100 WH 2000/840 DALI WIDE	20	1992	4000	>80	116x95
30115	3F Reno 100 WH 2000/930 DALI WIDE	24	1907	3000	>90	116x95

3F Reno 100 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30090	3F Reno 100 WH 1000/930 EP WIDE	15	1173	3000	>90	116x95
30086	3F Reno 100 WH 1000/840 EP WIDE	13	1288	4000	>80	116x95
30094	3F Reno 100 WH 2000/840 EP WIDE	21	1992	4000	>80	116x95
30098	3F Reno 100 WH 2000/930 EP WIDE	25	1907	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30341	3F Reno 150 WH 2000/840 WIDE	20	2054	4000	>80	166x107
30345	3F Reno 150 WH 2000/930 WIDE	24	1967	3000	>90	166x107
30349	3F Reno 150 WH 3000/840 WIDE	28	2757	4000	>80	166x107
30353	3F Reno 150 WH 3000/930 WIDE	37	2766	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30375	3F Reno 150 WH 2000/840 DALI WIDE	20	2054	4000	>80	166x107
30379	3F Reno 150 WH 2000/930 DALI WIDE	24	1967	3000	>90	166x107
30383	3F Reno 150 WH 3000/840 DALI WIDE	28	2757	4000	>80	166x107
30387	3F Reno 150 WH 3000/930 DALI WIDE	37	2766	3000	>90	166x107

3F Reno 150 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30358	3F Reno 150 WH 2000/840 EP WIDE	21	2054	4000	>80	166x107
30362	3F Reno 150 WH 2000/930 EP WIDE	25	1967	3000	>90	166x107
30366	3F Reno 150 WH 3000/840 EP WIDE	29	2757	4000	>80	166x107
30370	3F Reno 150 WH 3000/930 EP WIDE	38	2766	3000	>90	166x107

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30621	3F Reno 200 WH 2000/840 WIDE	20	1963	4000	>80	216x142
30625	3F Reno 200 WH 2000/930 WIDE	24	1880	3000	>90	216x142
30629	3F Reno 200 WH 3000/840 WIDE	28	2635	4000	>80	216x142
30637	3F Reno 200 WH 4000/840 WIDE	36	3521	4000	>80	216x142
30633	3F Reno 200 WH 3000/930 WIDE	37	2644	3000	>90	216x142
30641	3F Reno 200 WH 4000/930 WIDE	43	3192	3000	>90	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30671	3F Reno 200 WH 2000/840 DALI WIDE	20	1963	4000	>80	216x142
30675	3F Reno 200 WH 2000/930 DALI WIDE	24	1880	3000	>90	216x142
30679	3F Reno 200 WH 3000/840 DALI WIDE	28	2635	4000	>80	216x142
30687	3F Reno 200 WH 4000/840 DALI WIDE	36	3521	4000	>80	216x142
30683	3F Reno 200 WH 3000/930 DALI WIDE	37	2644	3000	>90	216x142
30691	3F Reno 200 WH 4000/930 DALI WIDE	43	3192	3000	>90	216x142

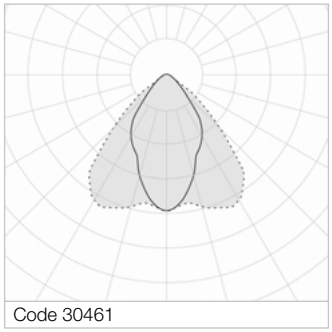
3F Reno 200 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30646	3F Reno 200 WH 2000/840 EP WIDE	21	1963	4000	>80	216x142
30650	3F Reno 200 WH 2000/930 EP WIDE	25	1880	3000	>90	216x142
30654	3F Reno 200 WH 3000/840 EP WIDE	29	2635	4000	>80	216x142
30662	3F Reno 200 WH 4000/840 EP WIDE	37	3521	4000	>80	216x142
30658	3F Reno 200 WH 3000/930 EP WIDE	38	2644	3000	>90	216x142
30666	3F Reno 200 WH 4000/930 EP WIDE	44	3192	3000	>90	216x142

3F Reno White Elliptical

EP | 650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 30461

Internal elliptical louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30209	3F Reno 100 WH 1000/930 ELL	14	1246	3000	>90	116x95
30205	3F Reno 100 WH 1000/840 ELL	12	1368	4000	>80	116x95
30213	3F Reno 100 WH 2000/840 ELL	20	2116	4000	>80	116x95
30217	3F Reno 100 WH 2000/930 ELL	24	2026	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30243	3F Reno 100 WH 1000/930 DALI ELL	14	1246	3000	>90	116x95
30239	3F Reno 100 WH 1000/840 DALI ELL	12	1368	4000	>80	116x95
30247	3F Reno 100 WH 2000/840 DALI ELL	20	2116	4000	>80	116x95
30251	3F Reno 100 WH 2000/930 DALI ELL	24	2026	3000	>90	116x95

3F Reno 100 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30226	3F Reno 100 WH 1000/930 EP ELL	15	1246	3000	>90	116x95
30222	3F Reno 100 WH 1000/840 EP ELL	13	1368	4000	>80	116x95
30230	3F Reno 100 WH 2000/840 EP ELL	21	2116	4000	>80	116x95
30234	3F Reno 100 WH 2000/930 EP ELL	25	2026	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30453	3F Reno 150 WH 2000/840 ELL	20	2139	4000	>80	166x107
30457	3F Reno 150 WH 2000/930 ELL	24	2048	3000	>90	166x107
30461	3F Reno 150 WH 3000/840 ELL	28	2871	4000	>80	166x107
30465	3F Reno 150 WH 3000/930 ELL	37	2880	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30487	3F Reno 150 WH 2000/840 DALI ELL	20	2139	4000	>80	166x107
30491	3F Reno 150 WH 2000/930 DALI ELL	24	2048	3000	>90	166x107
30495	3F Reno 150 WH 3000/840 DALI ELL	28	2871	4000	>80	166x107
30499	3F Reno 150 WH 3000/930 DALI ELL	37	2880	3000	>90	166x107

3F Reno 150 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30470	3F Reno 150 WH 2000/840 EP ELL	21	2139	4000	>80	166x107
30474	3F Reno 150 WH 2000/930 EP ELL	25	2048	3000	>90	166x107
30478	3F Reno 150 WH 3000/840 EP ELL	29	2871	4000	>80	166x107
30482	3F Reno 150 WH 3000/930 EP ELL	38	2880	3000	>90	166x107

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3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30785	3F Reno 200 WH 2000/840 ELL	20	2093	4000	>80	216x142
30789	3F Reno 200 WH 2000/930 ELL	24	2005	3000	>90	216x142
30793	3F Reno 200 WH 3000/840 ELL	28	2810	4000	>80	216x142
30801	3F Reno 200 WH 4000/840 ELL	36	3754	4000	>80	216x142
30797	3F Reno 200 WH 3000/930 ELL	38	2819	3000	>90	216x142
30805	3F Reno 200 WH 4000/930 ELL	43	3404	3000	>90	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30835	3F Reno 200 WH 2000/840 DALI ELL	20	2093	4000	>80	216x142
30839	3F Reno 200 WH 2000/930 DALI ELL	24	2005	3000	>90	216x142
30843	3F Reno 200 WH 3000/840 DALI ELL	28	2810	4000	>80	216x142
30851	3F Reno 200 WH 4000/840 DALI ELL	36	3754	4000	>80	216x142
30847	3F Reno 200 WH 3000/930 DALI ELL	37	2819	3000	>90	216x142
30855	3F Reno 200 WH 4000/930 DALI ELL	43	3404	3000	>90	216x142

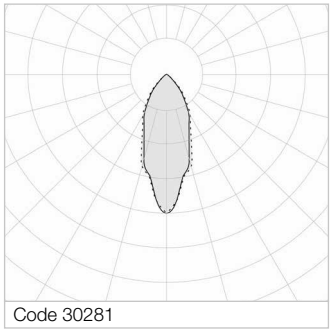
3F Reno 200 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30810	3F Reno 200 WH 2000/840 EP ELL	21	2093	4000	>80	216x142
30814	3F Reno 200 WH 2000/930 EP ELL	25	2005	3000	>90	216x142
30818	3F Reno 200 WH 3000/840 EP ELL	29	2810	4000	>80	216x142
30826	3F Reno 200 WH 4000/840 EP ELL	37	3754	4000	>80	216x142
30822	3F Reno 200 WH 3000/930 EP ELL	38	2819	3000	>90	216x142
30830	3F Reno 200 WH 4000/930 EP ELL	44	3404	3000	>90	216x142

3F Reno White Spot

EP | 650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 30281

Internal spotlight louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30005	3F Reno 100 WH 1000/930 SPOT	14	1453	3000	>90	116x95
30001	3F Reno 100 WH 1000/840 SPOT	12	1595	4000	>80	116x95
30009	3F Reno 100 WH 2000/840 SPOT	20	2467	4000	>80	116x95
30013	3F Reno 100 WH 2000/930 SPOT	24	2362	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30039	3F Reno 100 WH 1000/930 DALI SPOT	14	1453	3000	>90	116x95
30035	3F Reno 100 WH 1000/840 DALI SPOT	12	1595	4000	>80	116x95
30043	3F Reno 100 WH 2000/840 DALI SPOT	20	2467	4000	>80	116x95
30047	3F Reno 100 WH 2000/930 DALI SPOT	24	2362	3000	>90	116x95

3F Reno 100 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30022	3F Reno 100 WH 1000/930 EP SPOT	15	1453	3000	>90	116x95
30018	3F Reno 100 WH 1000/840 EP SPOT	13	1595	4000	>80	116x95
30026	3F Reno 100 WH 2000/840 EP SPOT	21	2467	4000	>80	116x95
30030	3F Reno 100 WH 2000/930 EP SPOT	25	2362	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30273	3F Reno 150 WH 2000/840 SPOT	20	2473	4000	>80	166x107
30277	3F Reno 150 WH 2000/930 SPOT	24	2368	3000	>90	166x107
30281	3F Reno 150 WH 3000/840 SPOT	28	3319	4000	>80	166x107
30285	3F Reno 150 WH 3000/930 SPOT	37	3330	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30307	3F Reno 150 WH 2000/840 DALI SPOT	20	2473	4000	>80	166x107
30311	3F Reno 150 WH 2000/930 DALI SPOT	24	2368	3000	>90	166x107
30315	3F Reno 150 WH 3000/840 DALI SPOT	28	3319	4000	>80	166x107
30319	3F Reno 150 WH 3000/930 DALI SPOT	37	3330	3000	>90	166x107

3F Reno 150 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30290	3F Reno 150 WH 2000/840 EP SPOT	21	2473	4000	>80	166x107
30294	3F Reno 150 WH 2000/930 EP SPOT	25	2368	3000	>90	166x107
30298	3F Reno 150 WH 3000/840 EP SPOT	29	3319	4000	>80	166x107
30302	3F Reno 150 WH 3000/930 EP SPOT	38	3330	3000	>90	166x107

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30521	3F Reno 200 WH 2000/840 SPOT	20	2461	4000	>80	216x142
30525	3F Reno 200 WH 2000/930 SPOT	24	2357	3000	>90	216x142
30529	3F Reno 200 WH 3000/840 SPOT	28	3303	4000	>80	216x142
30537	3F Reno 200 WH 4000/840 SPOT	36	4414	4000	>80	216x142
30533	3F Reno 200 WH 3000/930 SPOT	37	3315	3000	>90	216x142
30541	3F Reno 200 WH 4000/930 SPOT	43	4002	3000	>90	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30571	3F Reno 200 WH 2000/840 DALI SPOT	20	2461	4000	>80	216x142
30575	3F Reno 200 WH 2000/930 DALI SPOT	24	2357	3000	>90	216x142
30579	3F Reno 200 WH 3000/840 DALI SPOT	28	3303	4000	>80	216x142
30587	3F Reno 200 WH 4000/840 DALI SPOT	36	4414	4000	>80	216x142
30583	3F Reno 200 WH 3000/930 DALI SPOT	37	3315	3000	>90	216x142
30591	3F Reno 200 WH 4000/930 DALI SPOT	43	4002	3000	>90	216x142

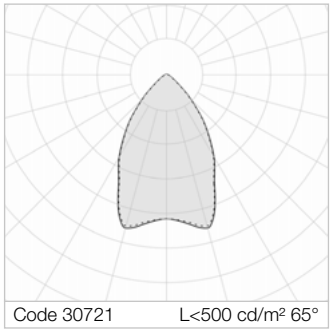
3F Reno 200 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30546	3F Reno 200 WH 2000/840 EP SPOT	21	2461	4000	>80	216x142
30550	3F Reno 200 WH 2000/930 EP SPOT	25	2357	3000	>90	216x142
30554	3F Reno 200 WH 3000/840 EP SPOT	29	3303	4000	>80	216x142
30562	3F Reno 200 WH 4000/840 EP SPOT	37	4414	4000	>80	216x142
30558	3F Reno 200 WH 3000/930 EP SPOT	38	3315	3000	>90	216x142
30566	3F Reno 200 WH 4000/930 EP SPOT	44	4002	3000	>90	216x142

3F Reno White UGR

EP | 650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 30721 L<500 cd/m² 65°

150 WH - Average luminance <1000 cd/m² for radial angles >65°.
200 WH - Average luminance <500 cd/m² for radial angles >65°.
Internal UGR louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30408	3F Reno 150 WH 1500/840 UGR	14	1846	4000	>80	166x107
30409	3F Reno 150 WH 2000/840 UGR	20	2478	4000	>80	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30430	3F Reno 150 WH 1500/840 DALI UGR	14	1846	4000	>80	166x107
30431	3F Reno 150 WH 2000/840 DALI UGR	20	2478	4000	>80	166x107

3F Reno 150 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	ø x H
30419	3F Reno 150 WH 1500/840 EP UGR	15	1846	4000	>80	166x107
30420	3F Reno 150 WH 2000/840 EP UGR	21	2478	4000	>80	166x107

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30721	3F Reno 200 WH 2000/840 UGR	20	2458	4000	>80	216x142
30725	3F Reno 200 WH 2000/930 UGR	24	2354	3000	>90	216x142
30730	3F Reno 200 WH 2500/930 UGR	29	2689	3000	>90	216x142
30726	3F Reno 200 WH 3000/840 UGR	28	3300	4000	>80	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30753	3F Reno 200 WH 2000/840 DALI UGR	20	2458	4000	>80	216x142
30757	3F Reno 200 WH 2000/930 DALI UGR	24	2354	3000	>90	216x142
30762	3F Reno 200 WH 2500/930 DALI UGR	29	2689	3000	>90	216x142
30758	3F Reno 200 WH 3000/840 DALI UGR	28	3300	4000	>80	216x142

3F Reno 200 - EP maintained emergency wiring, 1hr duration with 24hrs recharge

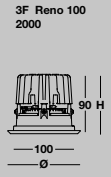
Code	Item	W	lm	K	CRI	ø x H
30737	3F Reno 200 WH 2000/840 EP UGR	21	2458	4000	>80	216x142
30741	3F Reno 200 WH 2000/930 EP UGR	25	2354	3000	>90	216x142
30746	3F Reno 200 WH 2500/930 EP UGR	29	2689	3000	>90	216x142
30742	3F Reno 200 WH 3000/840 EP UGR	29	3300	4000	>80	216x142

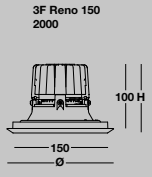
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
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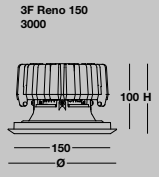


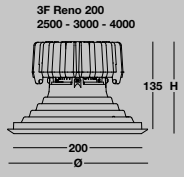




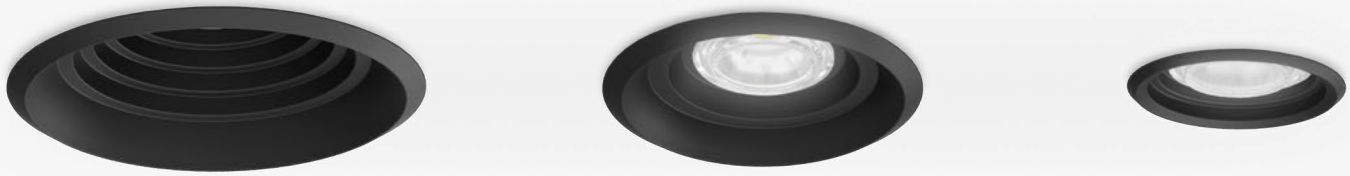








Cultural Centrum of Gembloux
Gembloux
Belgique/Belgium



3F Reno Black

ILLUMINOTECHNICAL

Direct symmetric distribution: wide, spot, UGR, elliptical.
Lifetime (L70/B10): 80000 h. (tq+25°C)
Colour temperature available /840 and /930.

UGR version
Average luminance <500 cd/m² for radial angles >65°.

SOURCE

Compact LED module.
Colour initial tolerance (MacAdam): SDCM 3.
Zhaga Book 3 compliant.

MECHANICAL

Passive heat dissipator in die-casting aluminium, oversized, for optimum thermal management of the LED module.
Parabolic element with graduated/concentric rings in black polycarbonate.
Transparent external lens with glossy and satin differentiated surfaces, with a cooling and anti-insect system in methacrylate (PMMA).
Internal specular metallic louvre to optimise control of the luminous flux in polycarbonate in Spot, UGR and Elliptical versions.
Fastening spring clips in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Wiring on a separate unit.
Class II.

INSTALLATION

Pull-up installation.

APPLICATIONS

Environments: architectural, commercial, exhibition areas, transit areas, corridors, shops, display windows, service areas.
In false ceilings with narrow voids.

Wide version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
In environments with VDTs, managerial offices and staterooms, public offices and schools.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

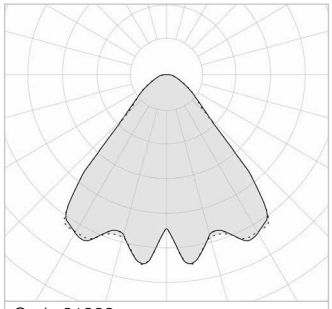
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions

3F Reno Black Wide

650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 31233

Wide lens in transparent methacrylate (PMMA).
Photobiological safety RG0, excluding versions 4000 - RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30961	3F Reno 100 BK 2000/840 WIDE	20	1737	4000	>80	116x95
30965	3F Reno 100 BK 2000/930 WIDE	24	1663	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30995	3F Reno 100 BK 2000/840 DALI WIDE	20	1737	4000	>80	116x95
30999	3F Reno 100 BK 2000/930 DALI WIDE	24	1663	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31233	3F Reno 150 BK 3000/840 WIDE	28	2385	4000	>80	166x107
31237	3F Reno 150 BK 3000/930 WIDE	37	2393	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31267	3F Reno 150 BK 3000/840 DALI WIDE	28	2385	4000	>80	166x107
31271	3F Reno 150 BK 3000/930 DALI WIDE	37	2393	3000	>90	166x107

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31521	3F Reno 200 BK 4000/840 WIDE	36	3013	4000	>80	216x142
31525	3F Reno 200 BK 4000/930 WIDE	43	2732	3000	>90	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

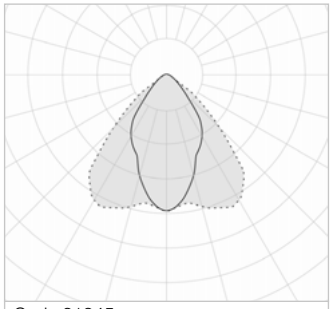
Code	Item	W	lm	K	CRI	ø x H
31571	3F Reno 200 BK 4000/840 DALI WIDE	36	3013	4000	>80	216x142
31575	3F Reno 200 BK 4000/930 DALI WIDE	43	2732	3000	>90	216x142

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Reno Black Elliptical

650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 31345

Internal elliptical louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31097	3F Reno 100 BK 2000/840 ELL	20	1955	4000	>80	116x95
31101	3F Reno 100 BK 2000/930 ELL	24	1872	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31131	3F Reno 100 BK 2000/840 DALI ELL	20	1955	4000	>80	116x95
31135	3F Reno 100 BK 2000/930 DALI ELL	24	1872	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31345	3F Reno 150 BK 3000/840 ELL	28	2662	4000	>80	166x107
31349	3F Reno 150 BK 3000/930 ELL	37	2671	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31379	3F Reno 150 BK 3000/840 DALI ELL	28	2662	4000	>80	166x107
31383	3F Reno 150 BK 3000/930 DALI ELL	37	2671	3000	>90	166x107

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31685	3F Reno 200 BK 4000/840 ELL	36	3353	4000	>80	216x142
31689	3F Reno 200 BK 4000/930 ELL	43	3041	3000	>90	216x142

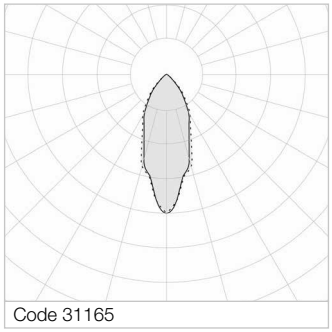
3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31735	3F Reno 200 BK 4000/840 DALI ELL	36	3353	4000	>80	216x142
31739	3F Reno 200 BK 4000/930 DALI ELL	43	3041	3000	>90	216x142

3F Reno Black Spot

650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





Code 31165

Internal spotlight louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 100 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30893	3F Reno 100 BK 2000/840 SPOT	20	2422	4000	>80	116x95
30897	3F Reno 100 BK 2000/930 SPOT	24	2319	3000	>90	116x95

3F Reno 100 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
30927	3F Reno 100 BK 2000/840 DALI SPOT	20	2422	4000	>80	116x95
30931	3F Reno 100 BK 2000/930 DALI SPOT	24	2319	3000	>90	116x95

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31165	3F Reno 150 BK 3000/840 SPOT	28	3254	4000	>80	166x107
31169	3F Reno 150 BK 3000/930 SPOT	37	3265	3000	>90	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31199	3F Reno 150 BK 3000/840 DALI SPOT	28	3254	4000	>80	166x107
31203	3F Reno 150 BK 3000/930 DALI SPOT	37	3265	3000	>90	166x107

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31421	3F Reno 200 BK 4000/840 SPOT	36	4287	4000	>80	216x142
31425	3F Reno 200 BK 4000/930 SPOT	43	3887	3000	>90	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

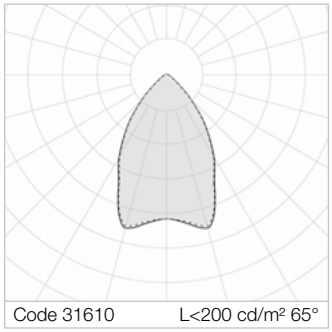
Code	Item	W	lm	K	CRI	ø x H
31471	3F Reno 200 BK 4000/840 DALI SPOT	36	4287	4000	>80	216x142
31475	3F Reno 200 BK 4000/930 DALI SPOT	43	3887	3000	>90	216x142

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Reno Black UGR

650°C | IP20 IP44 | 0,5J | IK04 | Classe II | Driver/LED SELV





150 BK - Average luminance <500 cd/m² for radial angles >65°.
200 BK - Average luminance <200 cd/m² for radial angles >65°.
Internal UGR louvre in metallic polycarbonate.
External lens in transparent methacrylate (PMMA).
Photobiological safety RG1 (page 16).

3F Reno 150 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31293	3F Reno 150 BK 2000/840 UGR	20	2461	4000	>80	166x107

3F Reno 150 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31315	3F Reno 150 BK 2000/840 DALI UGR	20	2461	4000	>80	166x107

3F Reno 200 - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31614	3F Reno 200 BK 2500/930 UGR	29	2645	3000	>90	216x142
31610	3F Reno 200 BK 3000/840 UGR	28	3246	4000	>80	216x142

3F Reno 200 - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
31646	3F Reno 200 BK 2500/930 DALI UGR	29	2645	3000	>90	216x142
31642	3F Reno 200 BK 3000/840 DALI UGR	28	3246	4000	>80	216x142

3F Reno | Accessories



Code	Item
A01035	VS 3F RENO WH 150
A01037	VS 3F RENO WH 200

VS moulded glass, micro-prismatic, anti-glare, tempered, non-combustible glass, affixed to the white polycarbonate trim. Accessory suitable for versions with wide distribution.
Accessory compatible with 3F Reno - White.

1J IK06



Code	Item
A01036	VS 3F RENO BK 150
A01038	VS 3F RENO BK 200

VS moulded glass, micro-prismatic, anti-glare, tempered, non-combustible glass, affixed to the black polycarbonate trim. Accessory suitable for versions with wide distribution.
Accessory compatible with 3F Reno - Black.

1J IK06



Code	Item
A01023	VT 3F RENO WH 150
A01025	VT 3F RENO WH 200

VT transparent glass, tempered, not flammable, locked and in line with the trim, in white polycarbonate. Accessory suitable for versions with spot, UGR and elliptic distribution.
Accessory compatible with 3F Reno - White.

1J IK06



Code	Item
A01024	VT 3F RENO BK 150
A01026	VT 3F RENO BK 200

VT transparent glass, tempered, not flammable, locked and in line with the trim, in black polycarbonate. Accessory suitable for versions with spot, UGR and elliptic distribution.
Accessory compatible with 3F Reno - Black.

1J IK06



Code	Item
A01046	SMP 3F RENO WH 150
A01048	SMP 3F RENO WH 200

Micro-prismatic SMP antiglare diffuser in methacrylate (PMMA), locked and in line with the trim, in white polycarbonate. Accessory suitable for versions with wide distribution.
Accessory compatible with 3F Reno - White.

0,7J IK05 HACCP



0,7J | IK05 | HACCP

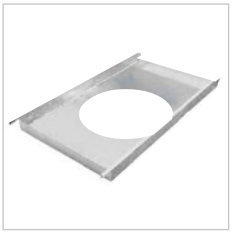
Code	Item
A01047	SMP 3F RENO BK 150
A01049	SMP 3F RENO BK 200

Micro-prismatic SMP antiglare diffuser in methacrylate (PMMA), locked and in line with the trim, in black polycarbonate. Accessory suitable for versions with wide distribution.
Accessory compatible with 3F Reno - Black.



Code	Item
A0804	SF 3F Reno 150
A0805	SF 3F Reno 200

Reinforcing bracket for panels 600x600, 600x1200 with exposed structure, in hot-galvanised steel.



Code	Item
A0806	SM 3F Reno 150
A0807	SM 3F Reno 200

Reinforcing bracket for metal panels 600x600 with concealed structure, in hot-galvanised steel.



Code	Item
A01090	WH adapter ring for 220 mm hole
A01091	WH adapter ring for 255 mm hole

White adapter ring for 3F Reno 200 installation in holes with a diameter of 220 or 255 millimetres. Realised in steel.
Accessory compatible only with 3F Reno 200 models.
Versions for the 3F Reno 100 and 3F Reno 150 models are available on request.



Code	Item
A01092	WH adapter ring for hole 300 mm <9 mm
A01093	WH adapter ring for hole 300 mm >9 mm

White adapter ring for 3F Reno 200 installation in holes with a diameter of 300 millimetres, supplied with a reinforcement bracket for false ceilings with a thickness of less than or higher than 9 mm. Realised in steel.
Accessory compatible only with 3F Reno 200 models.
Versions for the 3F Reno 100 and 3F Reno 150 models are available on request.

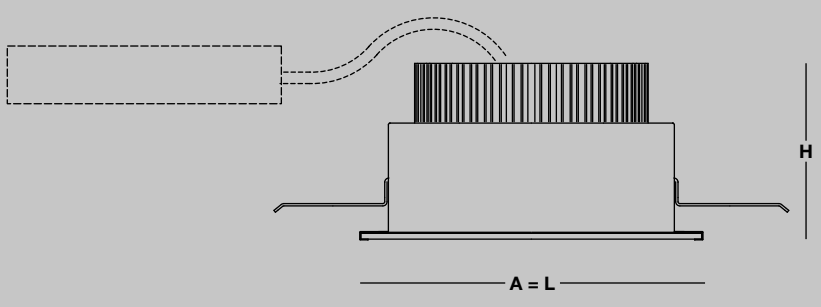


Code	Item
A0477	Safety wire

Anti-fall safety cable for fixing the housing to the building structure. Length 2.5 m.

/ Recessed luminaires





Centro Porsche Erre Esse
Torino
Italia/Italy



Lucequadro

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L70/B10): 80000 h. (tq+25°C)
Photobiological safety RG1 (page 16).

SOURCE

Compact LED module.
Colour initial tolerance (MacAdam): SDCM 3.
Zhaga Book 3 compliant.

MECHANICAL

Housing in white painted steel.
Passive heat dissipator in anodised aluminium, oversized, for optimum thermal management of the LED module.
Flow recuperator in specular aluminium with superficial titanium-magnesium treatment, non-iridescent.
Lock-in mounting of the glass/methacrylate (PMMA) in the lateral seats in specular aluminium.
Fixing brackets in galvanised steel, supplied.

ELECTRICAL

In compliance with EN 60598-1.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Wiring on a separate unit.
Class II.

INSTALLATION

Pull-up installation.

APPLICATIONS

Environments: commercial, exhibition areas, transit areas, halls, shops, great halls, display windows.

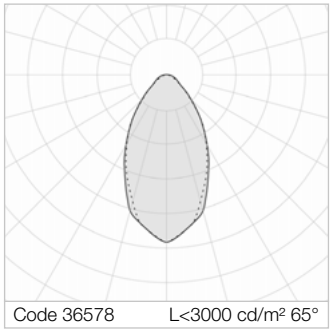
ON REQUEST

- asymmetric louvre
- different power levels, colour rendering indices and colour temperatures
- wiring: dimmable, CLO (page 662)
- IP54 version
- ceiling version
- emergency versions

Lucequadro VS

EP | 960°C | IP20 IP44 | 5J | IK08 | Classe II | Driver/LED SELV





Code 36578 L<3000 cd/m² 65°

Average luminance <3000 cd/m² for radial angles >65°.
VS moulded glass, anti-glare, tempered, non-combustible, thickness 4 mm.

ON/OFF electronic wiring 230V-50/60Hz

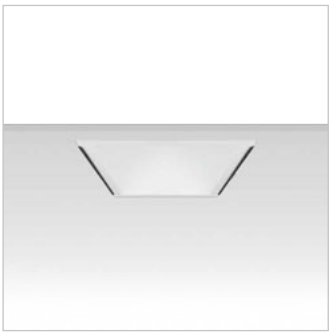
Code	Item	W	lm	K	CRI	L x A x H
36575	Lucequadro LED 2000 VS	20	2291	4000	>80	235x235x116
36578	Lucequadro LED 3000 VS	28	3076	4000	>80	235x235x116

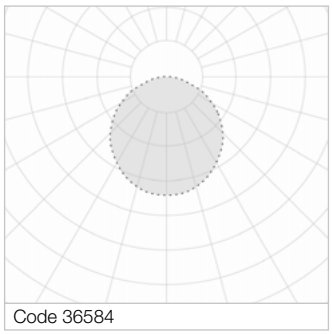
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
36576	Lucequadro LED 2000 EP VS	21	2291	4000	>80	235x235x116
36579	Lucequadro LED 3000 EP VS	29	3076	4000	>80	235x235x116

Lucequadro VOP

EP | 960°C | IP20 IP44 | 5J | IK08 | Classe II | Driver/LED SELV





Code 36584

Glazed VOP opal glass, tempered, non-combustible, thickness 4 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
36581	Lucequadro LED 2000 VOP	20	1437	4000	>80	235x235x116
36584	Lucequadro LED 3000 VOP	28	1929	4000	>80	235x235x116

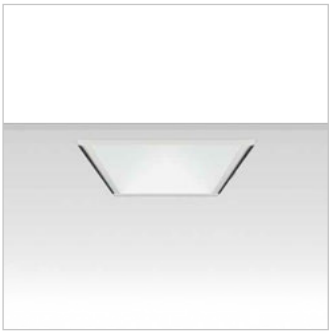
EP maintained emergency wiring, 1hr duration with 24hrs recharge

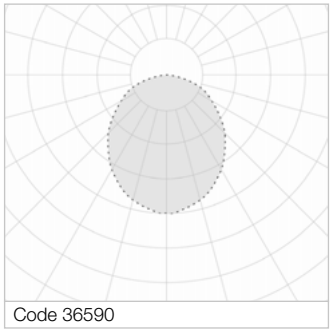
Code	Item	W	lm	K	CRI	L x A x H
36582	Lucequadro LED 2000 EP VOP	21	1437	4000	>80	235x235x116
36585	Lucequadro LED 3000 EP VOP	29	1929	4000	>80	235x235x116

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Lucequadro SOP

EP | 650°C | IP20 IP44 | 5J | IK08 | Classe II | Driver/LED SELV





Code 36590

SOP opal methacrylate (PMMA) flat diffuser, anti-glare.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
36587	Lucequadro LED 2000 SOP	20	2238	4000	>80	235x235x116
36590	Lucequadro LED 3000 SOP	28	3003	4000	>80	235x235x116

EP maintained emergency wiring, 1hr duration with 24hrs recharge

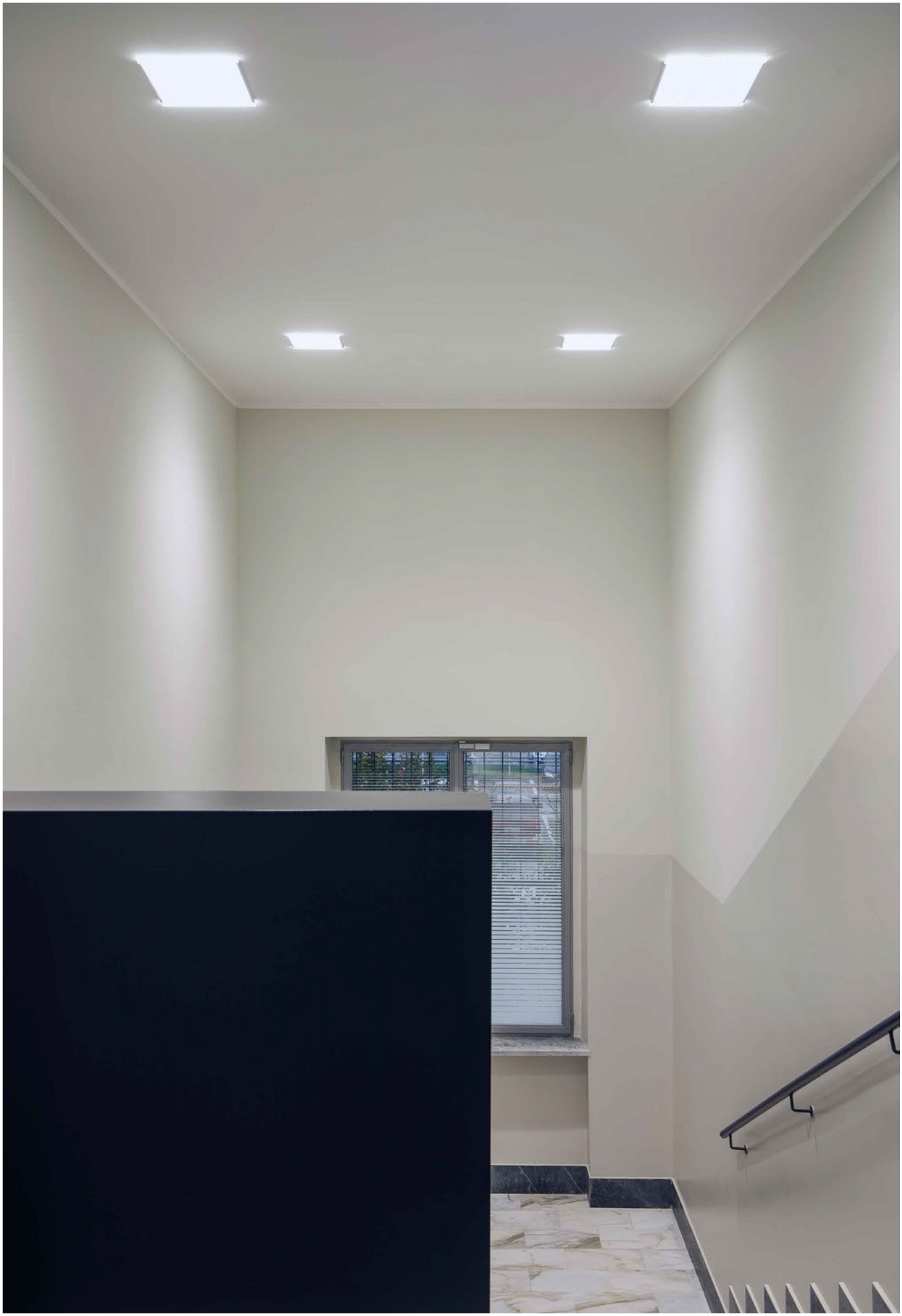
Code	Item	W	lm	K	CRI	L x A x H
36588	Lucequadro LED 2000 EP SOP	21	2238	4000	>80	235x235x116
36591	Lucequadro LED 3000 EP SOP	29	3003	4000	>80	235x235x116

Lucequadro | Accessories



Code	Item
A0189	Reinf. brack. Lucequadro pan./plast.

Pair of reinforcing brackets for mineral fibre, metal and plasterboard panels, height 20 mm.



/ catalogue

_Systems and track-mounted products

/ 3F Filippi



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Zero 3F Track
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3F Zeta Track L
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3F Zeta Track DR
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3F Zeta Track DT
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3F Linux S IP40
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3F Linux S IP54
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3F Linux L
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3F Linux D
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3F Linux DR
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3F Linux DT
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3F Linux Track
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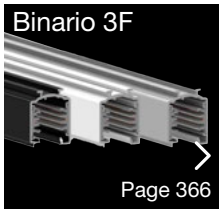
3F Six Track
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3F Six Blindo
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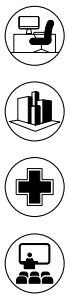
3F Emilio Track
Page 360

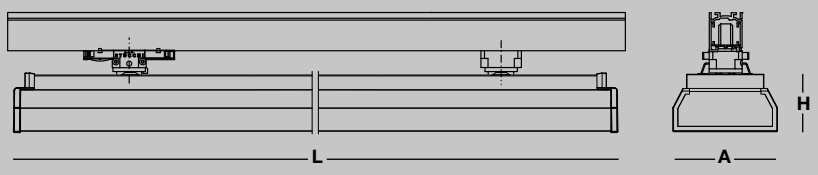


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Binario 3F
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Vallalta Center
Albino (BG)
Italia/Italy



Zero 3F Track

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.
Lighting end caps in methacrylate (PMMA) opal.
Supporting mechanical adapter.

ELECTRICAL

In compliance with EN 60598-1.
Truck adapter, 4/6-way.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

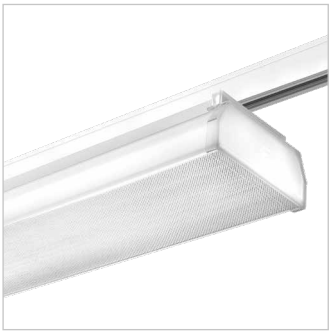
The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

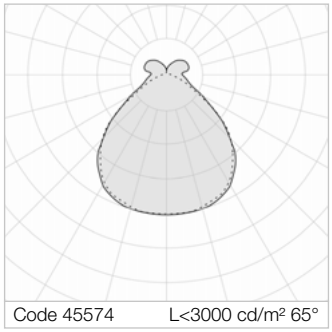
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions
- versions compliant with EN 60598-2-22 for central emergency power supply system (CPSS) or with on-board battery

Zero 3F Track

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 45574 L<3000 cd/m² 65°

ON/OFF electronic wiring 230V-50/60Hz

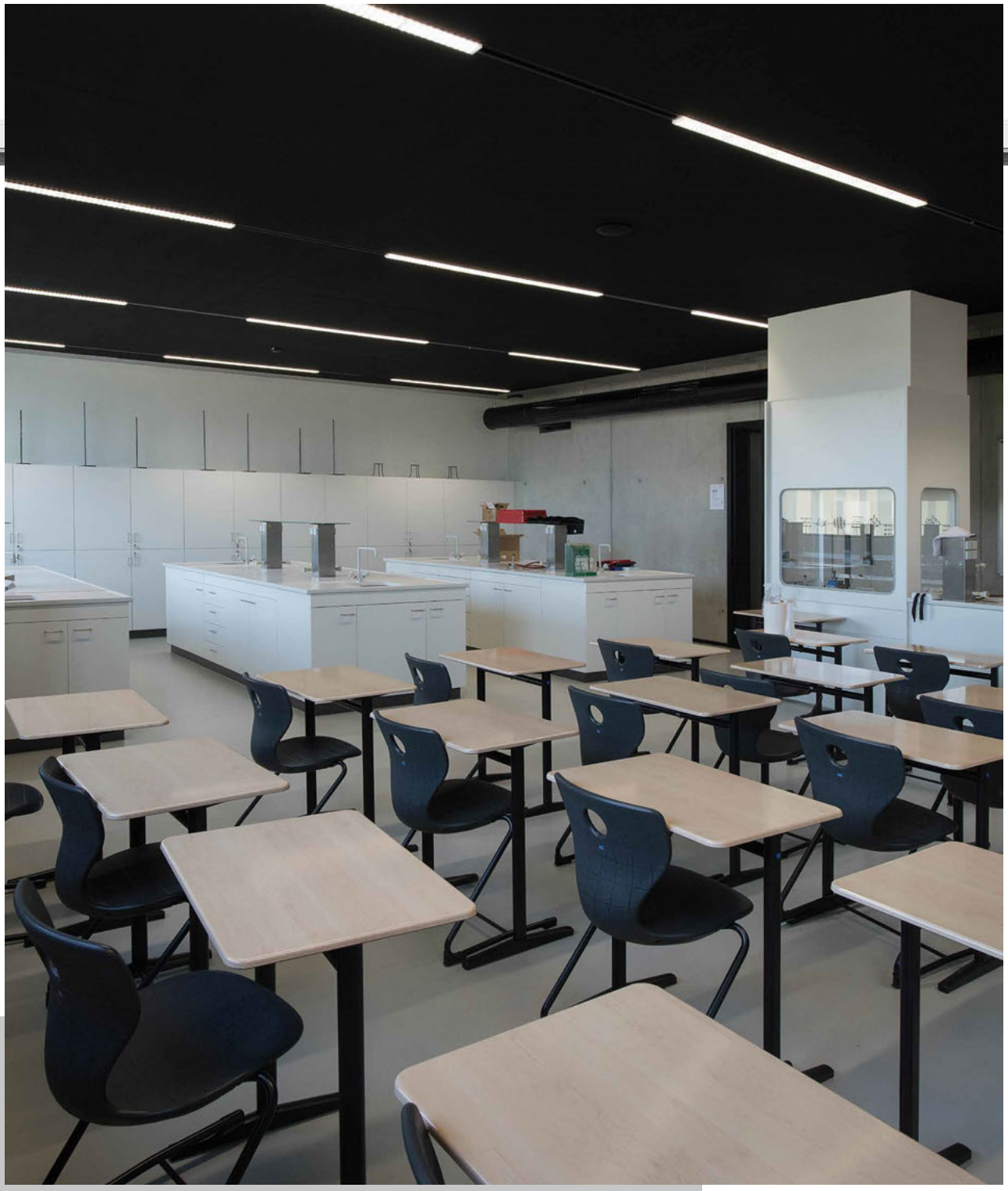
Code	Item	W	lm	K	CRI	L x A x H
45561	03F TK 14W/840 L620	16	2014	4000	>80	620x119x64
45562	03F TK 28W/840 L1204	31	4029	4000	>80	1204x119x64
45563	03F TK 35W/840 L1506	40	5469	4000	>80	1506x119x64
45564	03F TK 42W/840 L1787	46	6042	4000	>80	1787x119x64
45565	03F TK 18W/940 L620	20	1983	4000	>90	620x119x64
45566	03F TK 35W/940 L1204	41	4152	4000	>90	1204x119x64
45567	03F TK 44W/940 L1506	50	5190	4000	>90	1506x119x64
45568	03F TK 53W/940 L1787	58	6227	4000	>90	1787x119x64

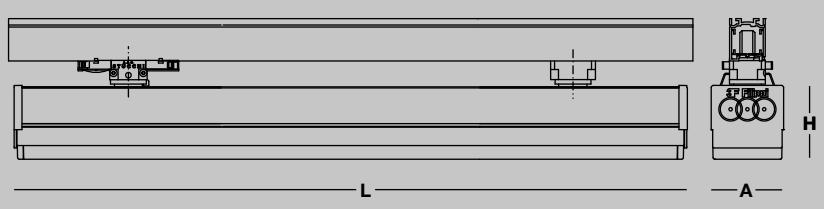
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
45569	03F TK 14W/840 DALI L620	16	2014	4000	>80	620x119x64
45570	03F TK 28W/840 DALI L1204	31	4029	4000	>80	1204x119x64
45571	03F TK 35W/840 DALI L1506	40	5469	4000	>80	1506x119x64
45572	03F TK 42W/840 DALI L1787	46	6042	4000	>80	1787x119x64
45573	03F TK 18W/940 DALI L620	20	1983	4000	>90	620x119x64
45574	03F TK 35W/940 DALI L1204	40	4152	4000	>90	1204x119x64
45575	03F TK 44W/940 DALI L1506	49	5190	4000	>90	1506x119x64
45576	03F TK 53W/940 DALI L1787	57	6227	4000	>90	1787x119x64

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**







Topsportschool Hasselt
Hasselt
Belgique/Belgium



3F Zeta Track L

ILLUMINOTECHNICAL

Wide direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process with adapters to busbar in white polycarbonate.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Methacrylate (PMMA) lenses with external flat surface.
Supporting mechanical adapter.
End caps in white polycarbonate.

ELECTRICAL

In compliance with EN 60598-1.
Truck adapter, 4/6-way.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: architectural, commercial, transit areas, cornices, boards.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

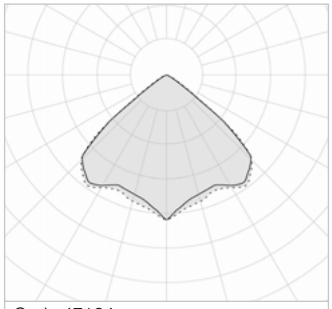
ON REQUEST

- different light distributions
- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- emergency versions
- versions compliant with EN 60598-2-22 for central emergency power supply system (CPSS) or with on-board battery

3F Zeta Track L Wide

650°C | IP40 | 1J | IK06





Code 47124

ON/OFF electronic wiring 230V-50/60Hz

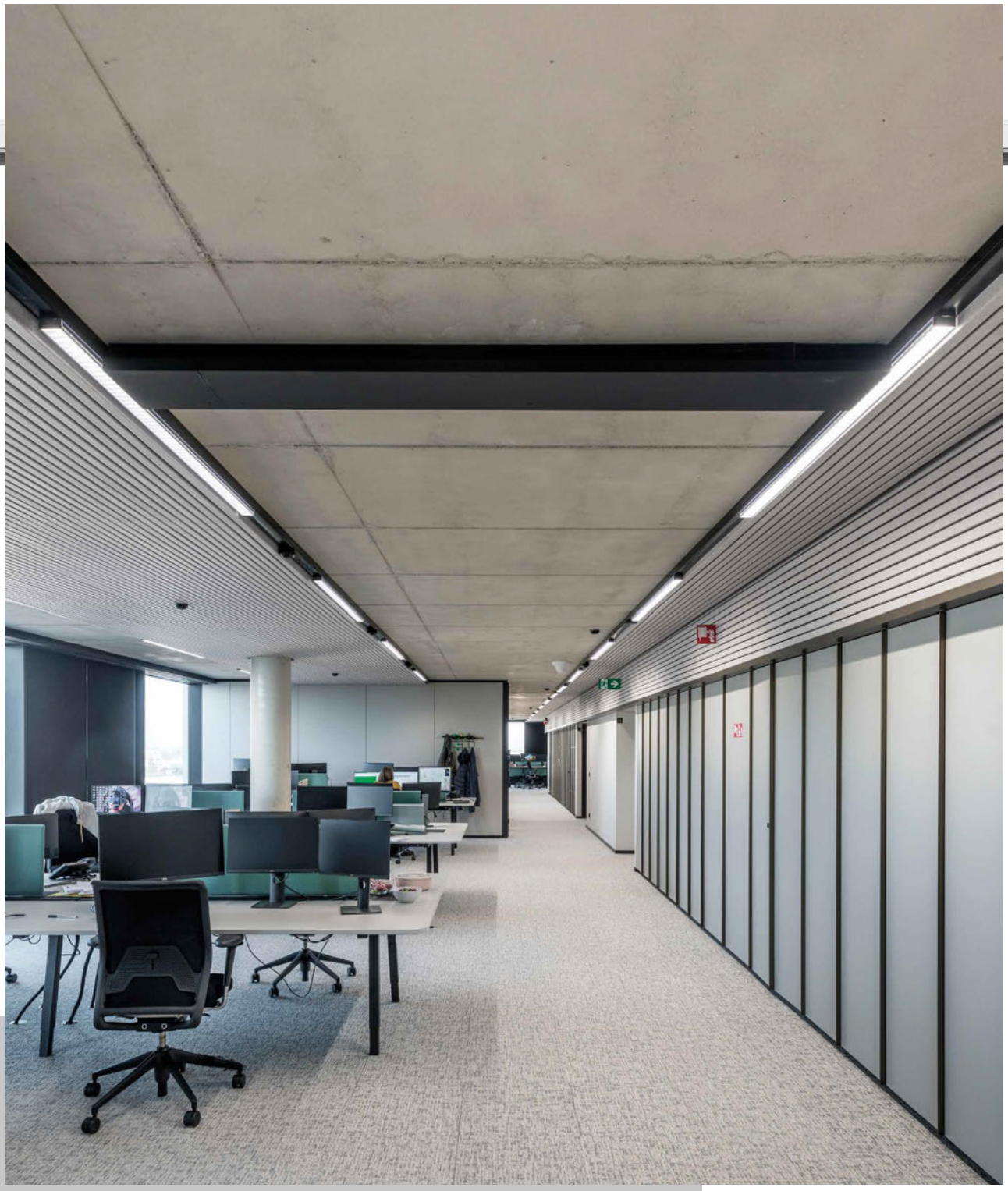
Code	Item	W	lm	K	CRI	L x A x H
47136	3F Zeta TK L 15 AMPIO L605	17	2749	4000	>80	605x62x67
47132	3F Zeta TK L 30 AMPIO L1194	31	5498	4000	>80	1194x62x67
47124	3F Zeta TK L 50 AMPIO L1783	46	8247	4000	>80	1783x62x67

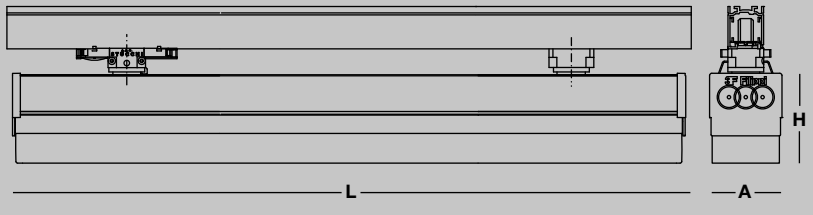
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47152	3F Zeta TK L 15 DALI AMPIO L605	17	2749	4000	>80	605x62x67
47148	3F Zeta TK L 30 DALI AMPIO L1194	31	5498	4000	>80	1194x62x67
47140	3F Zeta TK L 50 DALI AMPIO L1783	46	8247	4000	>80	1783x62x67

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**







Stadhuis
Hasselt
Belgique/Belgium



3F Zeta Track DR

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <1500 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process with adapters to busbar in white polycarbonate.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Rectangular transparent polycarbonate diffuser.
Semi-specular aluminium internal louvre with prismatic methacrylate (PMMA) filter above the louvre blades for complete shielding of the louvre compartment.
Supporting mechanical adapter.
End caps in white polycarbonate.

ELECTRICAL

In compliance with EN 60598-1.
Truck adapter, 4/6-way.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: exhibition areas, with VDTs, halls, shops, great halls, schools.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

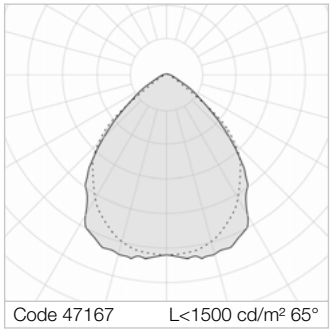
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: CLO (page 662)
- emergency versions
- versions compliant with EN 60598-2-22 for central emergency power supply system (CPSS) or with on-board battery

3F Zeta Track DR UGR

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 47167 L<1500 cd/m² 65°

ON/OFF electronic wiring 230V-50/60Hz

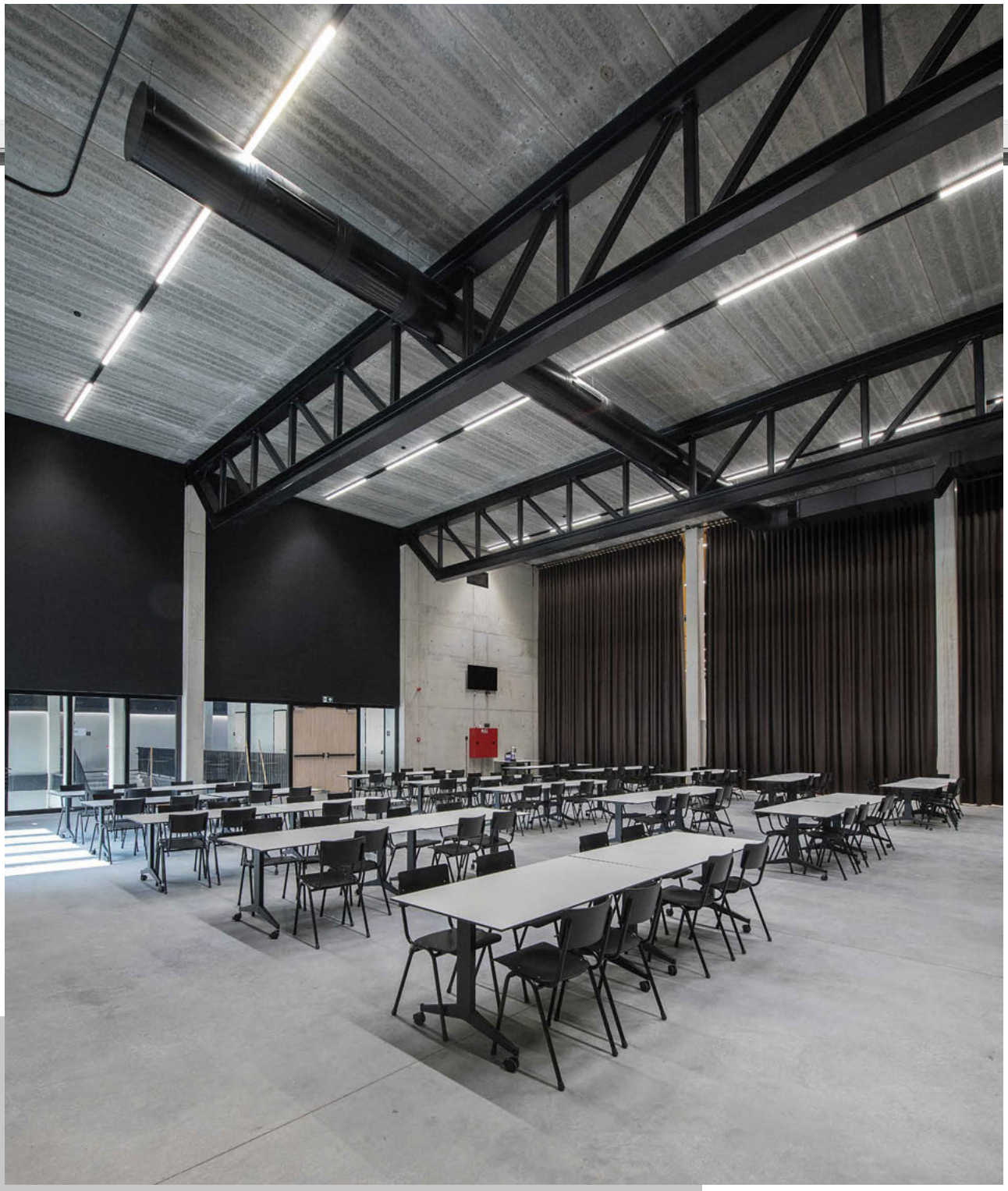
Code	Item	W	lm	K	CRI	L x A x H
47167	3F Zeta TK DR UGR 1x24/940 L1194	27	2285	4000	>90	1194x62x67
47168	3F Zeta TK DR UGR 1x30/940 L1783	34	2859	4000	>90	1783x62x67

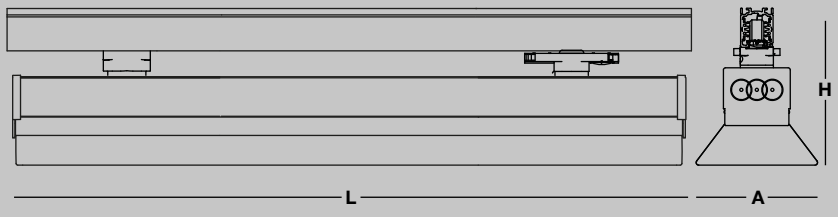
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47169	3F Zeta TK DR UGR 1x24/940 DALI L1194	27	2285	4000	>90	1194x62x67
47170	3F Zeta TK DR UGR 1x30/940 DALI L1783	34	2859	4000	>90	1783x62x67

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**







Topsportschool
Hasselt
Belgique/Belgium



3F Zeta Track DT

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in hot-galvanised steel, painted in white polyester, obtained through rolling process.
Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.
End caps in white polycarbonate.

ELECTRICAL

In compliance with EN 60598-1.
Truck adapter, 4/6-way.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: with VDTs, meeting rooms, offices.
Environments: recreational, transit areas, corridors, schools, stairwells.
Environments where soft diffuse light is required for optimal visual comfort.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

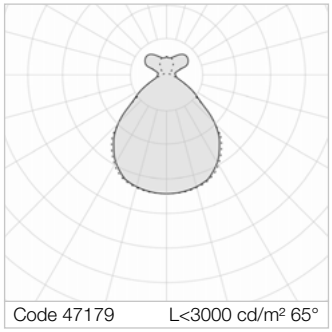
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)
- emergency versions
- versions compliant with EN 60598-2-22 for central emergency power supply system (CPSS) or with on-board battery

3F Zeta Track DT UGR

650°C | IP40 | 1J | IK06 | Driver/LED SELV





Code 47179 L<3000 cd/m² 65°

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47175	3F Zeta TK DT UGR 2x18/840 L1194	40	5633	4000	>80	1194x118x95
47178	3F Zeta TK DT UGR 2x22/840 L1489	49	7261	4000	>80	1489x118x95
47179	3F Zeta TK DT UGR 2x30/840 L1783	66	9122	4000	>80	1783x118x95

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47180	3F Zeta TK DT UGR 2x18/840 DALI L1194	40	5633	4000	>80	1194x118x95
47181	3F Zeta TK DT UGR 2x22/840 DALI L1489	49	7261	4000	>80	1489x118x95
47182	3F Zeta TK DT UGR 2x30/840 DALI L1783	66	9122	4000	>80	1783x118x95

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



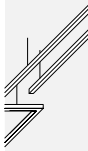


/ 3F Linux

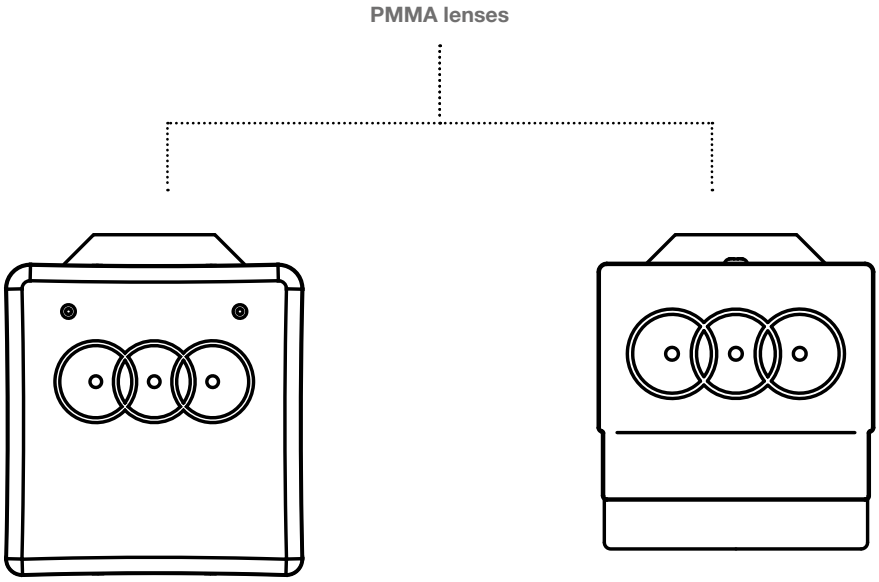
3F Linux is more than a continuous line system: it was designed to compose channels in a simple and efficient way and significantly reduce the installation and maintenance costs of the system.

Whether it's a relamping or a new project, 3F Linux is the winning choice in terms of performance and ease of installation: it has already been chosen by many big players in the retail, logistics and industrial production sectors all over the world.

It is fitted with high-efficiency LED sources and features a compact body, modular components and accessories which give unrivalled freedom in terms of planning the installations.



3F Linux
Rizzoli Institute - Manzoli hall
Bologna, Italy



3F Linux L | IP54

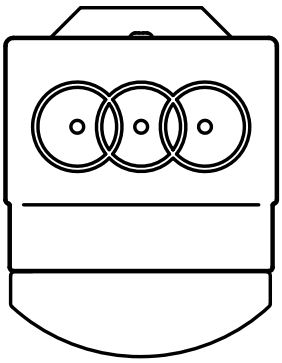
3F Linux L | IP40

One system, many **configurations.**

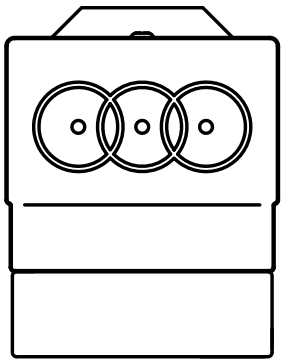
3F Linux is fitted with high-efficiency **LED sources** and features a compact body, modular components and accessories which give unrivalled freedom in terms of planning the installations.

Its flexibility, given by the multiple light distributions, lends it to installation in commercial environments requiring high levels of lighting, and in circulation areas where it can be installed invisibly even in corners.

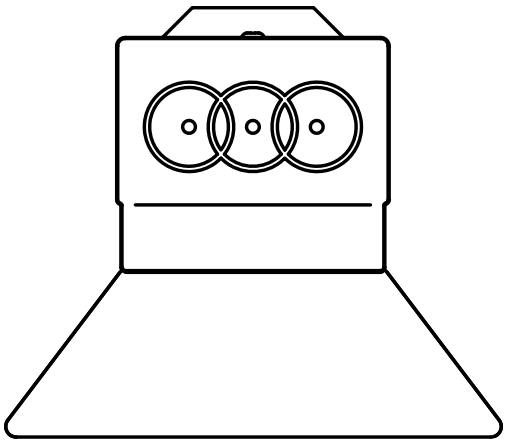
Polycarbonate screens



3F Linux D | IP40



3F Linux DR | IP40



3F Linux DT | IP40

3F Linux L | IP54
PMMA lenses with external flat surface. Transparent polycarbonate IP54 cover element.

3F Linux L | IP40
PMMA lenses with external flat surface.

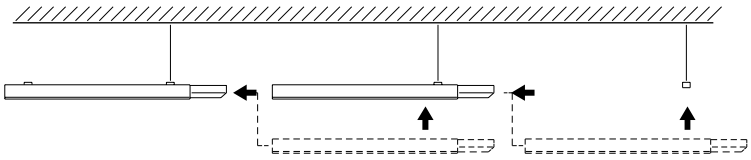
3F Linux D | IP40
Curved screen in self-extinguishing polycarbonate.

3F Linux DR | IP40
Rectangular screen in self-extinguishing polycarbonate.

3F Linux DT | IP40
Trapezoidal screen in self-extinguishing polycarbonate.



Step 1:
Install the structures, connecting them together with the connecting elements (pre-fitted) and connect the power-supply lines



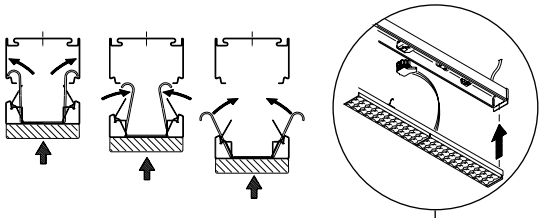
Simplicity and **immediacy**

Lengths of the structures and lighting units are optimised in order to reduce installation times and investment (-20 % accessories to be purchased and installed with respect to standard lengths).

The **FastWiring** system reduces the time necessary to create a lighting channel:

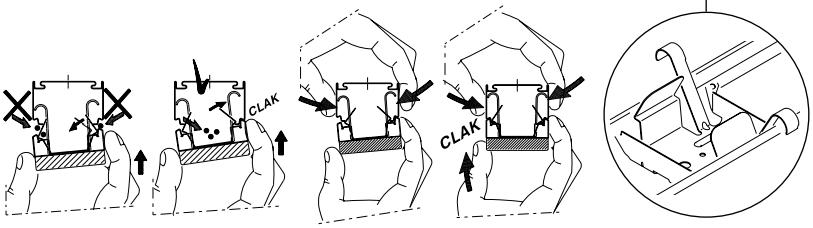
Installation requires just 3 steps, with limited tools required.

Step 2:
Connect the power-supply plug and secure the lighting element to the structure, moving it to the required point









Step 3:
Once you have chosen the required position, secure the lighting element to the structure until the retaining spring clicks

Ceiling

Suspended



Range

3F Linux

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Linux L Wide	43 - 93	IP40 6936 - 14086 IP54 6607 - 13418	/840	ON/OFF D2D	Wide	1,39 x 1,43	1778 x 62 x 32
3F Linux L Medium	43 - 93	IP40 6843 - 13898 IP54 6499 - 13200	/840	ON/OFF D2D	Medium	1,16 x 1,19	1778 x 62 x 32
3F Linux L UGR	43 - 50	IP40 5670 - 8221 IP54 5464 - 7924	/840 /940	ON/OFF D2D	UGR	1,39 x 1,30	1778 x 62 x 32
3F Linux L AS	43 - 93	IP40 6957 - 14130 IP54 6664 - 13535	/840	ON/OFF D2D	Asymmetric	/	1778 x 62 x 32
3F Linux L BAT	43 - 62	IP40 6950 - 9876 IP54 6599 - 9378	/840	ON/OFF D2D	BAT [1]	/	1778 x 62 x 32
3F Linux L BAT WD	43 - 62	IP40 6928 - 9845 IP54 6528 - 9276	/840	ON/OFF D2D	BAT WD [2]	/	1778 x 62 x 32
3F Linux L Concentrated	62 - 93	IP40 9662 - 13810 IP54 9154 - 13084	/840	ON/OFF D2D	Concentrated	0,56 x 1,21	1778 x 62 x 32
3F Linux L Iperconcentrated	62 - 93	IP40 9418 - 13462 IP54 8910 - 12736	/840	ON/OFF D2D	Iper-concentrated	0,39 x 0,78	1778 x 62 x 32

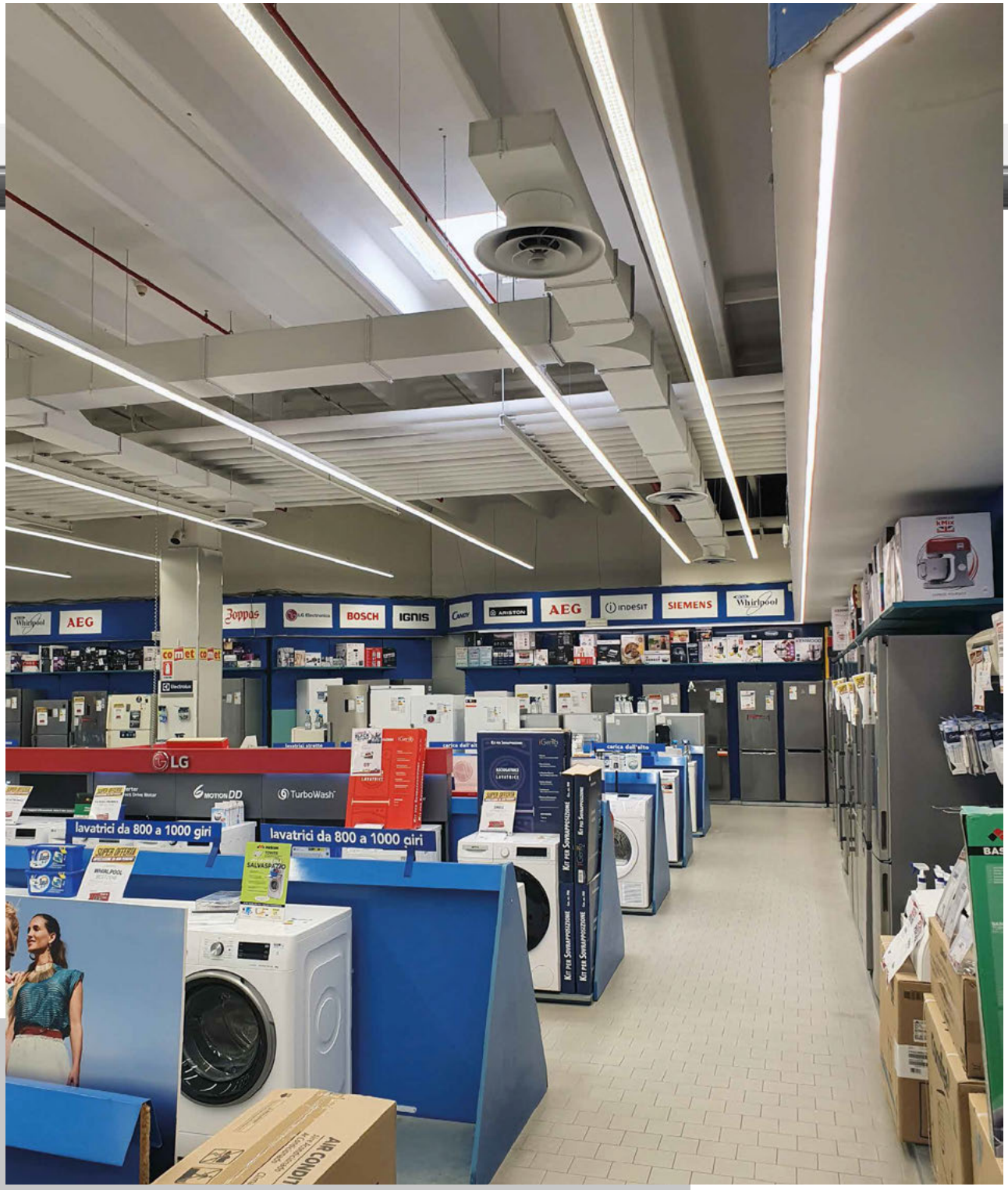


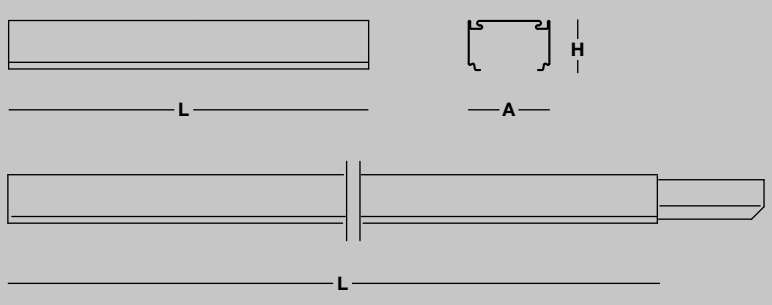
Range

3F Linux

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Linux D	49 - 66	6236 - 7835	/840	ON/OFF D2D	Diffuse	1,31 x 1,25	1778 x 62 x 47
3F Linux DR	49 - 66	6253 - 7856	/840	ON/OFF D2D	Diffused symmetric	1,38 x 1,25	1778 x 62 x 47
3F Linux DR UGR	34 - 49	3487 - 5361	/840	ON/OFF D2D	UGR	1,24 x 1,17	1778 x 62 x 47
3F Linux DR AS	66	6403	/840	ON/OFF D2D	Asymmetric	/	1778 x 62 x 47
3F Linux DT UGR	34 - 66	4900 - 9122	/840	ON/OFF D2D	UGR	1,24 x 1,25	1778 x 118 x 95

(1) Double asymmetrical distribution.
(2) Wide double symmetric distribution.





Comet
Reggio Emilia
Italia/Italy



3F Linux S IP40

This fixture makes it possible to create light channels with IP40 protection.
Modular and flexible structural system with small dimensions to create continuous channels and compositions, transport electrical lines and fixing of various types of products.
Quick and easy ceiling or pendant installation.

MECHANICAL

Hot-galvanised wired structure, painted in polyester base white, obtained through rolling process.
Linear connecting element in hot galvanised steel for the formation of continuous channels. Standard on L3556 versions (optional for other lengths).
For the completion accessories see accessories on page 331.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments: commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops, schools.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

ON REQUEST

- structure and accessories in different RAL colours
- through-wiring up to 11 poles

3F Linux S IP40

IP40 HACCP



Supporting structure with 5 or 7-pole through power supply lines with H07Z-U Halogen Free cables (2.5 mm² HT90 cross-section), equipped with quick connection start/end channel terminal blocks, non-reversible with intermediate power sockets.
2 sockets for 3556 mm structures, 1 socket for 1778 mm structures (5P=N/T/1/2/3, 7P=N/T/1/2/3/+/-).
Feeding input on top (at the beginning or in the middle of the structure).

Code	Item	L x A x H
A20019	3F Linux S 5P L1778	1778x62x38
A20026	3F Linux S 7P L1778	1778x62x38
A20017	3F Linux S 5P L3556	3556x62x38
A20024	3F Linux S 7P L3556	3556x62x38

3F Linux S-NL IP40

IP40

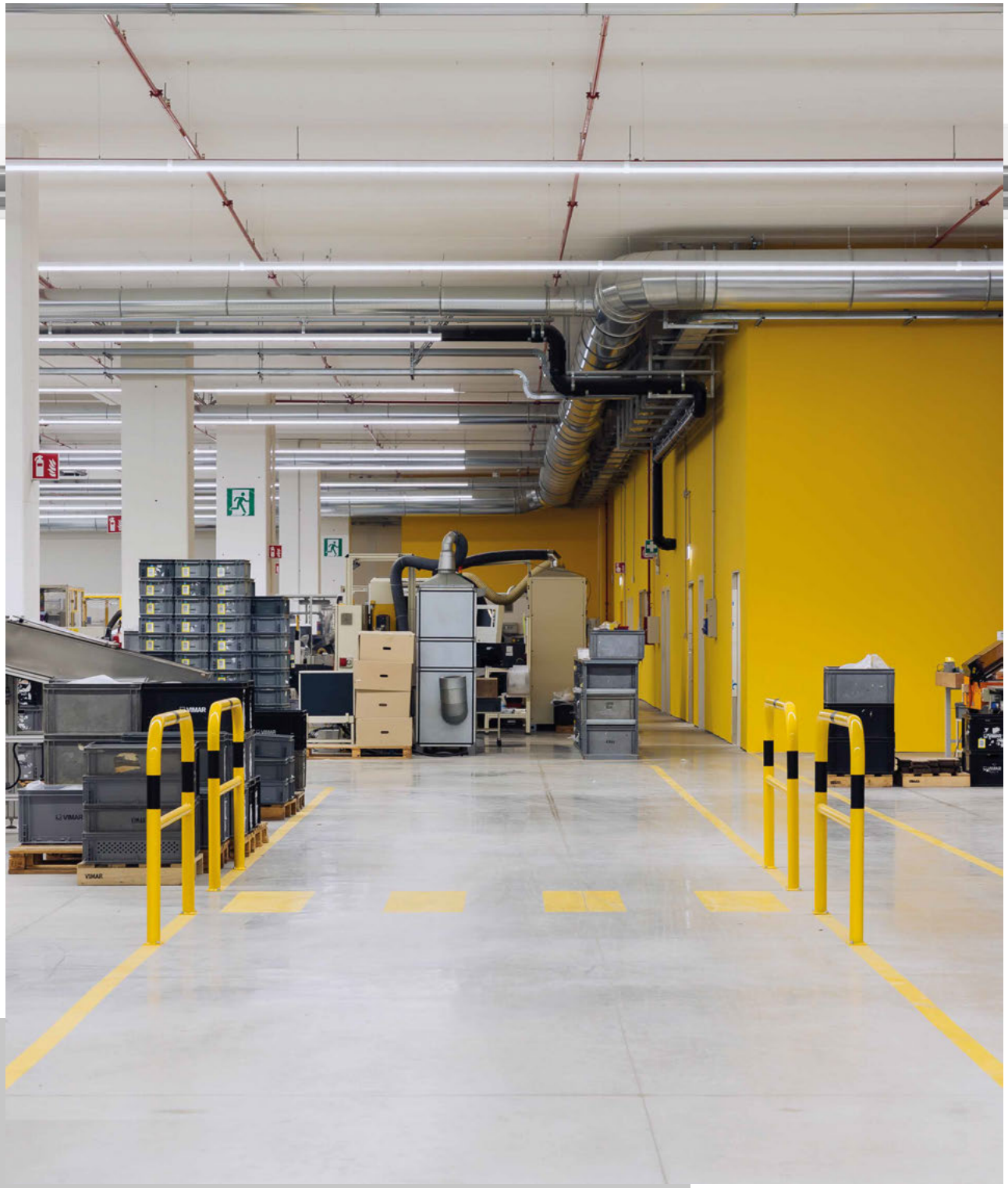


Supporting structure WITHOUT power supply line.
Polycarbonate reinforced cable supports (for use every 500 mm approx.).
Feeding input on top (at the beginning or in the middle of the structure).

Code	Item	L x A x H
A20012	3F Linux S NL L1778	1778x62x38
A20011	3F Linux S NL L3556	3556x62x38

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


GORIFERI
CONSEGNA E INSTALLAZIONE
RITIRO DEL PRODOTTO USATO
PAGAMENTI RATEALI
AEG
comet
GRANDI ELETTRODOMESTICI
BOSCH
CLIMA
SCELTO PER VOI
CELLULAR LINE
Vodafone
Power to you





Vimar
Marostica (VI)
Italia/Italy



3F Linux S IP54

This fixture makes it possible to create light channels with IP54 protection.

MECHANICAL

Hot-galvanised wired structure, painted in polyester base white, obtained through rolling process, with expanded EPDM rubber profiles.
Linear connecting element in hot galvanised steel with gasket for the formation of continuous channels, standard on L3556 versions (optional for other lengths).
Transparent polycarbonate IP54 cover element with methacrylate (PMMA) flexible parts.
The L3556 versions have a locking collar for joining the covers.
For the completion accessories see accessories on page 331.

ELECTRICAL

Supporting structure with 5 or 7-pole through power supply lines with H07Z-U Halogen Free cables (2.5 mm² HT90 cross-section), equipped with quick connection start/end channel terminal blocks, non-reversible with intermediate power sockets.
2 sockets for 3556 mm structures, 1 socket for 1778 mm structures (5P=N/T/1/2/3, 7P=N/T/1/2/3/+/-).
Feeding input on top at the beginning of the structure or at end cap.

INSTALLATION

Ceiling mounted or suspension installation.
Attention: to obtain a light system with IP54 protection rating, it is necessary to use 3F Linux L light modules (or alternatively IP54 closing top) + closing terminals.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Virtually in all environments compatibly with the use of any chemicals which could compromise the use of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
For specific applications please contact our technical offices.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

ON REQUEST

- structure and accessories in different RAL colours
- through-wiring up to 11 poles

3F Linux S IP54

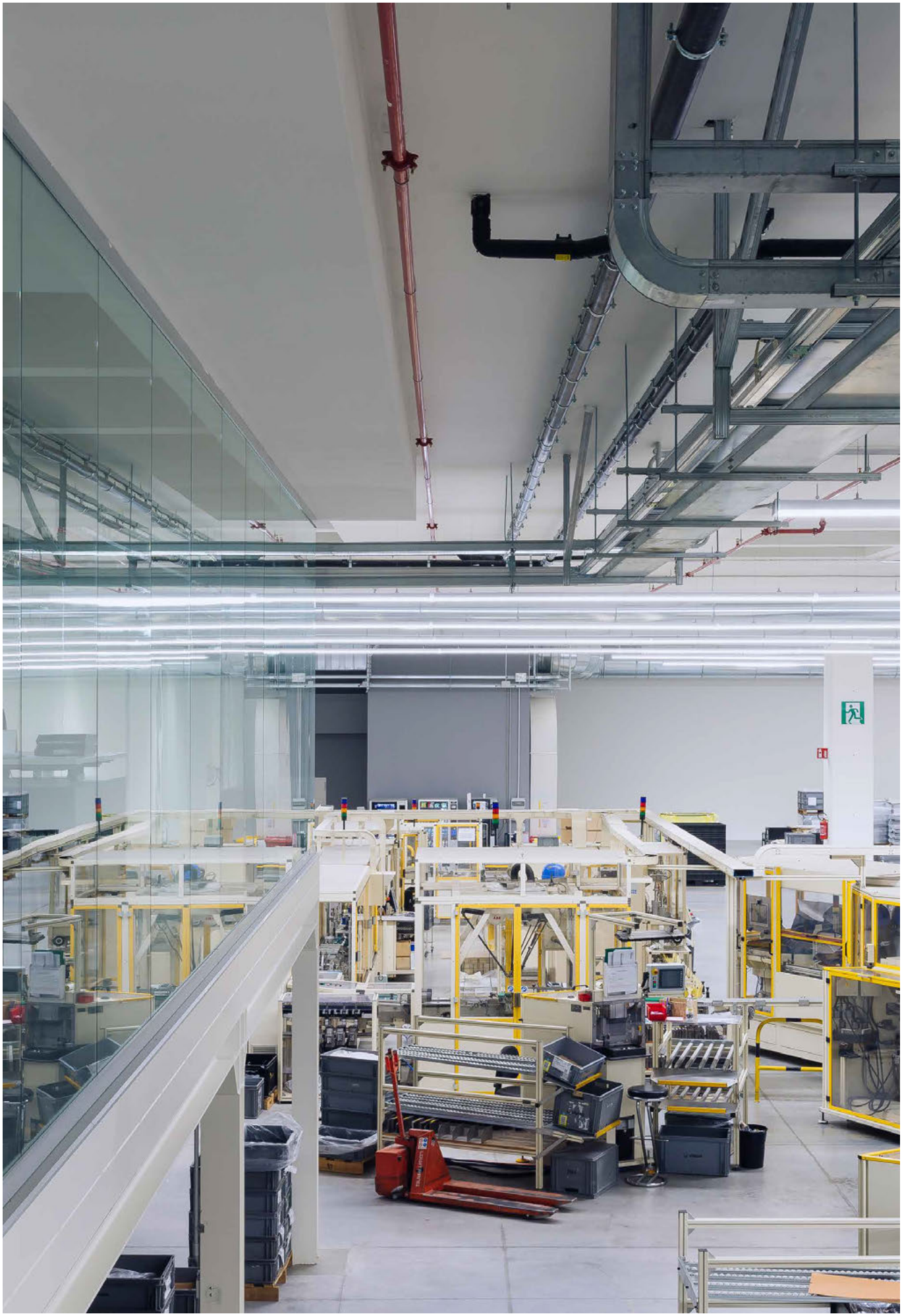
CE 650°C IP54 HACCP

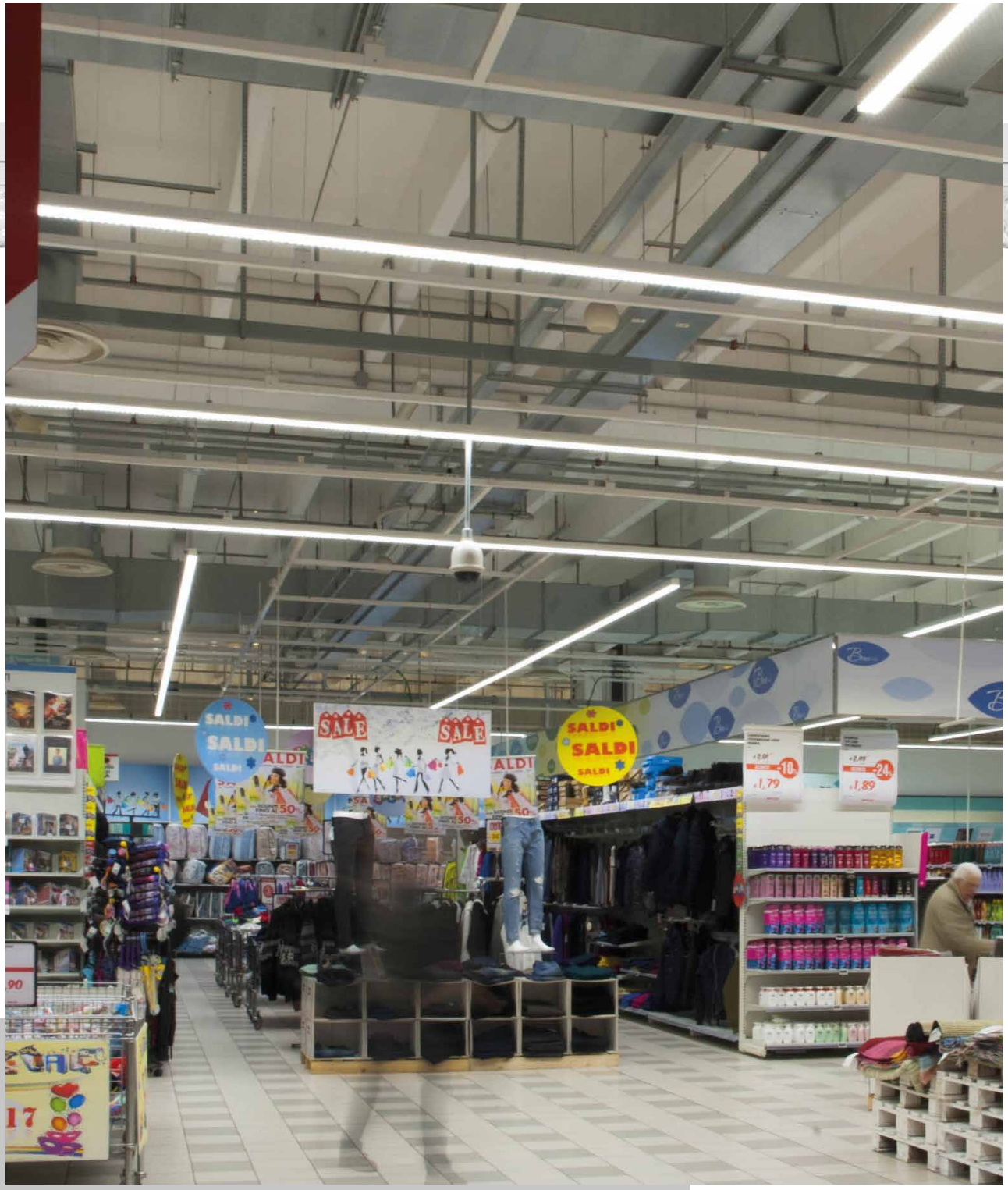


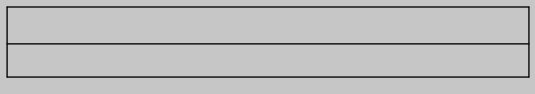
All product codes include the support structure and cover element.
In the L3556 versions there is also an IP54 element that is used to protect the joins between the covers.

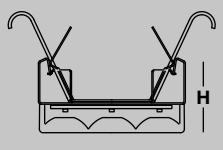
Code	Item	L x A x H
A20726	3F Linux 5P IP54 L1778 System	1778x64x72
A20724	3F Linux 7P IP54 L1778 System	1778x64x72
A20725	3F Linux 5P IP54 L3556 System	3556x64x72
A20723	3F Linux 7P IP54 L3556 System	3556x64x72

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

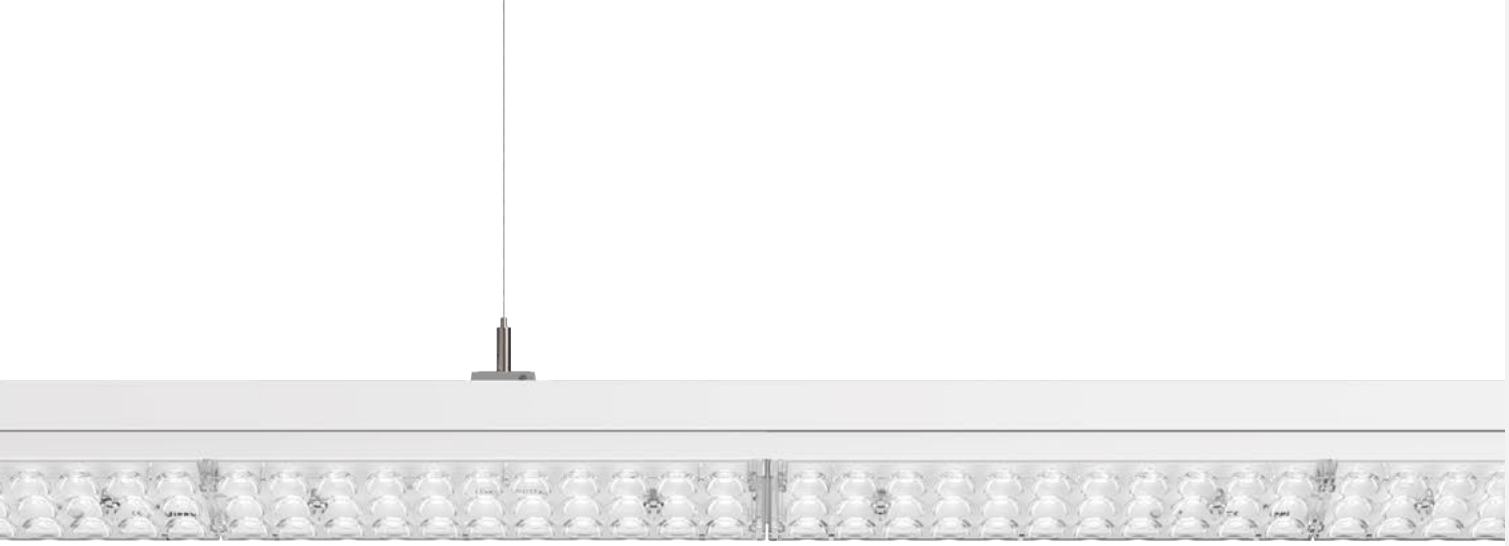








Novacoop
Torino
Italia/Italy



3F Linux L

ILLUMINOTECHNICAL

Direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Methacrylate (PMMA) lenses with external flat surface (superimposed to obtain full protection of LED modules).

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Connection to the structure with mobile plug with phase selection (H05Z-U Halogen Free cable section 0,5 mm² HT90).

INSTALLATION

This lighting unit can be installed on profile 3F Linux S | IP40 and 3F Linux S | IP54 (see dedicated product pages).

APPLICATIONS

Environments: industrial, commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
Environments: staterooms, with VDTs, offices.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

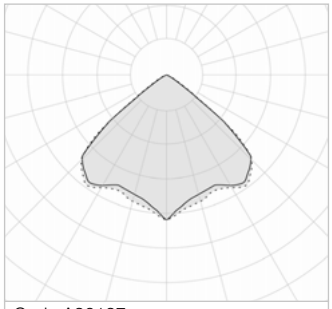
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- integrated light sensor
- HACCP versions
- housing in different RAL colours
- wiring: CLO (page 662)
- emergency versions

3F Linux L Wide

650°C | IP40 | 1J | IK06 | HACCP





Code A20127

Wide distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20127	3F Linux L 40 LED AMPIO L1778	40	6936 6607	IP40 IP54	4000	>80	1778x62x32
A20126	3F Linux L 50 LED AMPIO L1778	46	8247 7856	IP40 IP54	4000	>80	1778x62x32
A20125	3F Linux L 60 LED AMPIO L1778	55.5	9855 9388	IP40 IP54	4000	>80	1778x62x32
A20124	3F Linux L 85 LED AMPIO L1778	84	14086 13418	IP40 IP54	4000	>80	1778x62x32

DALI electronic wiring 230V-50/60Hz

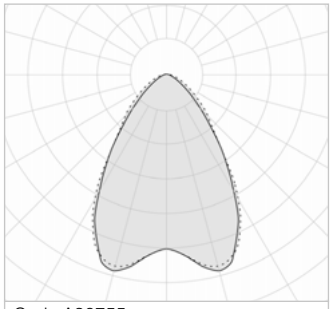
Code	Item	W	lm		K	CRI	L x A x H
A20141	3F Linux L 40 LED DALI AMPIO L1778	40	6936 6607	IP40 IP54	4000	>80	1778x62x32
A20140	3F Linux L 50 LED DALI AMPIO L1778	46	8247 7856	IP40 IP54	4000	>80	1778x62x32
A20139	3F Linux L 60 LED DALI AMPIO L1778	55.5	9855 9388	IP40 IP54	4000	>80	1778x62x32
A20138	3F Linux L 85 LED DALI AMPIO L1778	84	14086 13418	IP40 IP54	4000	>80	1778x62x32

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linux L Medium

650°C | IP40 | 1J | IK06 | HACCP





Code A20755

Medium distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20757	3F Linux L 40 LED MEDIO L1778	40	6843 6499	IP40 IP54	4000	>80	1778x62x32
A20756	3F Linux L 50 LED MEDIO L1778	46	8136 7728	IP40 IP54	4000	>80	1778x62x32
A20755	3F Linux L 60 LED MEDIO L1778	55.5	9723 9235	IP40 IP54	4000	>80	1778x62x32
A20754	3F Linux L 85 LED MEDIO L1778	84	13898 13200	IP40 IP54	4000	>80	1778x62x32

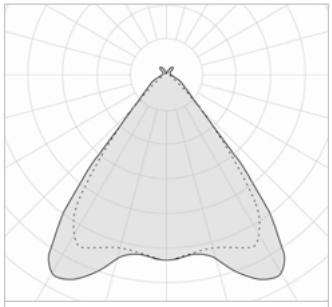
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20762	3F Linux L 40 LED DALI MEDIO L1778	40	6843 6499	IP40 IP54	4000	>80	1778x62x32
A20761	3F Linux L 50 LED DALI MEDIO L1778	46	8136 7728	IP40 IP54	4000	>80	1778x62x32
A20760	3F Linux L 60 LED DALI MEDIO L1778	55.5	9723 9235	IP40 IP54	4000	>80	1778x62x32
A20759	3F Linux L 85 LED DALI MEDIO L1778	84	13898 13200	IP40 IP54	4000	>80	1778x62x32

3F Linux L UGR

650°C | IP40 | 1J | IK06 | HACCP





Code A20661 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20661	3F Linux L 50 LED UGR L1778	46	8221 7924	IP40 IP54	4000	>80	1778x62x32
A20662	3F Linux L 40 LED UGR L1778	40	6914 6664	IP40 IP54	4000	>80	1778x62x32
A20664	3F Linux L 50/940 LED UGR L1778	50	6742 6498	IP40 IP54	4000	>90	1778x62x32
A20665	3F Linux L 40/940 LED UGR L1778	40	5670 5464	IP40 IP54	4000	>90	1778x62x32

DALI electronic wiring 230V-50/60Hz

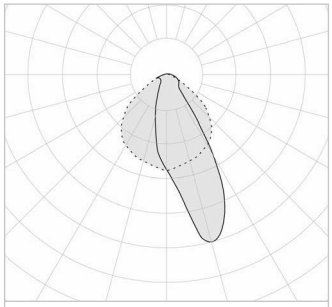
Code	Item	W	lm		K	CRI	L x A x H
A20667	3F Linux L 50 LED DALI UGR L1778	46	8221 7924	IP40 IP54	4000	>80	1778x62x32
A20668	3F Linux L 40 LED DALI UGR L1778	40	6914 6664	IP40 IP54	4000	>80	1778x62x32
A20670	3F Linux L 50/940 LED DALI UGR L1778	50	6742 6498	IP40 IP54	4000	>90	1778x62x32
A20671	3F Linux L 40/940 LED DALI UGR L1778	40	5670 5464	IP40 IP54	4000	>90	1778x62x32

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linux L AS

650°C | IP40 | 1J | IK06 | HACCP





Code A20744

Asymmetric distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20747	3F Linux L 40 LED AS L1778	40	6957 6664	IP40 IP54	4000	>80	1778x62x32
A20746	3F Linux L 50 LED AS L1778	46	8272 7924	IP40 IP54	4000	>80	1778x62x32
A20745	3F Linux L 60 LED AS L1778	55.5	9886 9469	IP40 IP54	4000	>80	1778x62x32
A20744	3F Linux L 85 LED AS L1778	84	14130 13535	IP40 IP54	4000	>80	1778x62x32

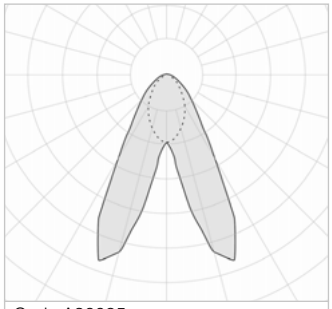
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20752	3F Linux L 40 LED DALI AS L1778	40	6957 6664	IP40 IP54	4000	>80	1778x62x32
A20751	3F Linux L 50 LED DALI AS L1778	46	8272 7924	IP40 IP54	4000	>80	1778x62x32
A20750	3F Linux L 60 LED DALI AS L1778	55.5	9886 9469	IP40 IP54	4000	>80	1778x62x32
A20749	3F Linux L 85 LED DALI AS L1778	84	14130 13535	IP40 IP54	4000	>80	1778x62x32

3F Linux L BAT

650°C | IP40 | 1J | IK06 | HACCP





Code A20085

Double asymmetrical distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20085	3F Linux L 40 LED BAT L1778	40	6950 6599	IP40 IP54	4000	>80	1778x62x32
A20084	3F Linux L 50 LED BAT L1778	46	8264 7847	IP40 IP54	4000	>80	1778x62x32
A20083	3F Linux L 60 LED BAT L1778	55.5	9876 9378	IP40 IP54	4000	>80	1778x62x32

DALI electronic wiring 230V-50/60Hz

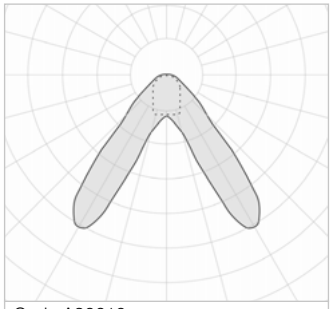
Code	Item	W	lm		K	CRI	L x A x H
A20099	3F Linux L 40 LED DALI BAT L1778	40	6950 6599	IP40 IP54	4000	>80	1778x62x32
A20098	3F Linux L 50 LED DALI BAT L1778	46	8264 7847	IP40 IP54	4000	>80	1778x62x32
A20097	3F Linux L 60 LED DALI BAT L1778	55.5	9876 9378	IP40 IP54	4000	>80	1778x62x32

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linux L BAT WD

650°C | IP40 | 1J | IK06 | HACCP





Code A20610

Wide double symmetric distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20610	3F Linux L 40 LED BAT WD L1778	40	6928 6528	IP40 IP54	4000	>80	1778x62x32
A20609	3F Linux L 50 LED BAT WD L1778	46	8238 7762	IP40 IP54	4000	>80	1778x62x32
A20608	3F Linux L 60 LED BAT WD L1778	55.5	9845 9276	IP40 IP54	4000	>80	1778x62x32

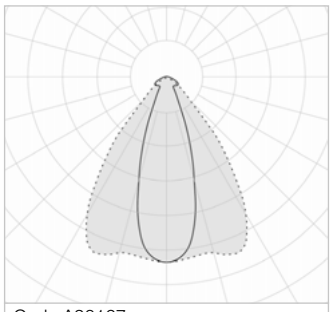
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20624	3F Linux L 40 LED DALI BAT WD L1778	40	6928 6528	IP40 IP54	4000	>80	1778x62x32
A20623	3F Linux L 50 LED DALI BAT WD L1778	46	8238 7762	IP40 IP54	4000	>80	1778x62x32
A20622	3F Linux L 60 LED DALI BAT WD L1778	55.5	9845 9276	IP40 IP54	4000	>80	1778x62x32

3F Linux L Concentrated

650°C | IP40 | 1J | IK06 | HACCP





Code A20167

Concentrated elliptical distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.
Recommended minimum installation height: 5 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20167	3F Linux L 60 LED CONC L1778	55.5	9662 9154	IP40 IP54	4000	>80	1778x62x32
A20166	3F Linux L 85 LED CONC L1778	84	13810 13084	IP40 IP54	4000	>80	1778x62x32

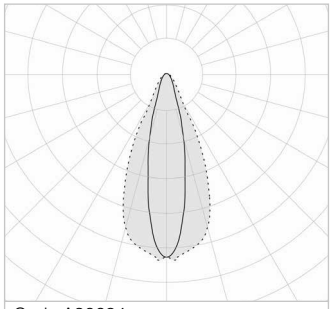
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20181	3F Linux L 60 LED DALI CONC L1778	55.5	9662 9154	IP40 IP54	4000	>80	1778x62x32
A20180	3F Linux L 85 LED DALI CONC L1778	84	13810 13084	IP40 IP54	4000	>80	1778x62x32

3F Linux L Iperconcentrated

650°C | IP40 | 1J | IK06 | HACCP





Code A20684

Symmetrical elliptical hyperconcentrated distribution.
Structure height (3F Linux S | IP40 + 3F Linux L) equal to 65 mm.
Structure height (3F Linux S | IP54 + 3F Linux L) equal to 71 mm.
Recommended minimum installation height: 5 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

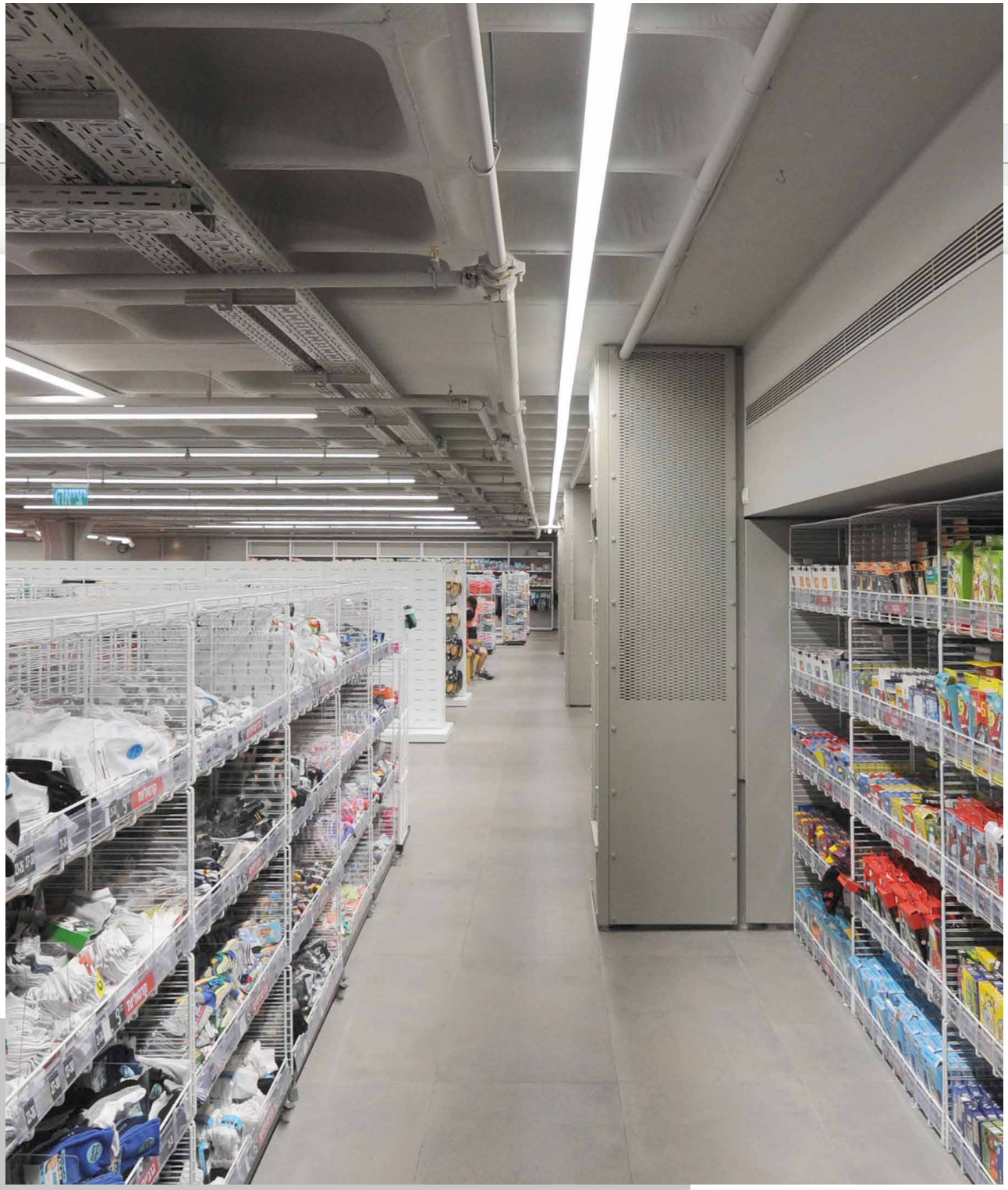
Code	Item	W	lm		K	CRI	L x A x H
A20685	3F Linux L 60 LED IPERCONC L1778	55.5	9418 8910	IP40 IP54	4000	>80	1778x62x32
A20684	3F Linux L 85 LED IPERCONC L1778	84	13462 12736	IP40 IP54	4000	>80	1778x62x32

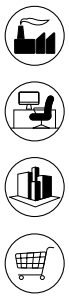
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm		K	CRI	L x A x H
A20699	3F Linux L 60 LED DALI IPERCONC L1778	55.5	9418 8910	IP40 IP54	4000	>80	1778x62x32
A20698	3F Linux L 85 LED DALI IPERCONC L1778	84	13462 12736	IP40 IP54	4000	>80	1778x62x32

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

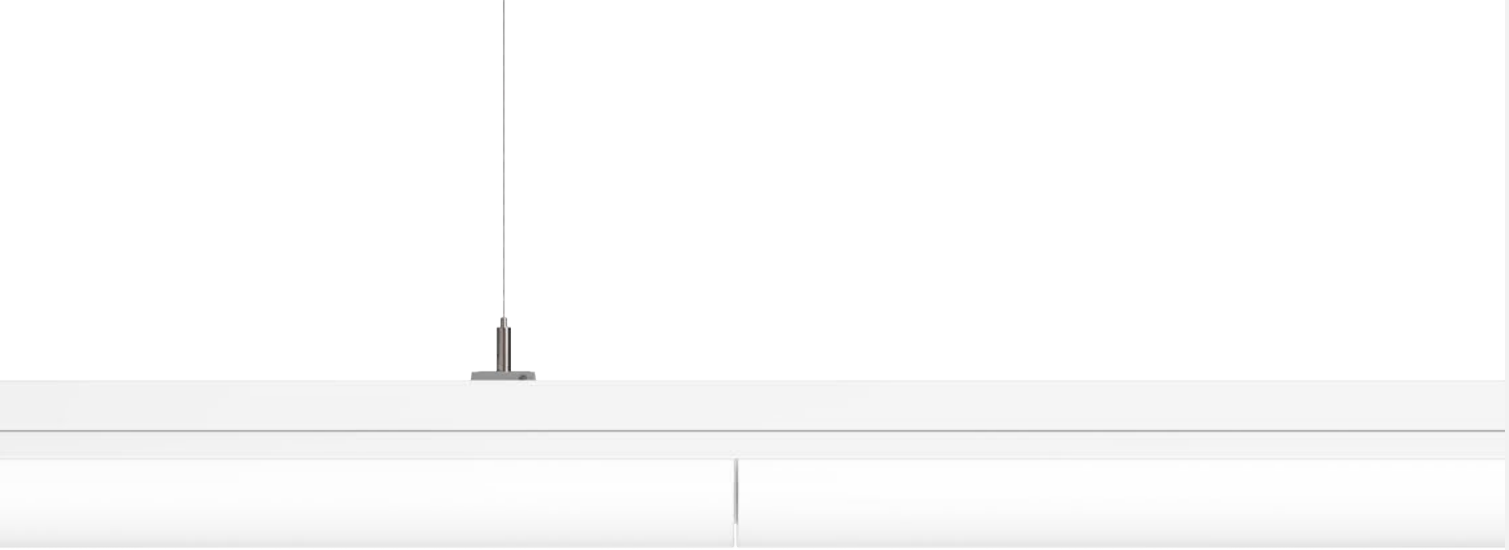

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3F Linux D

ILLUMINOTECHNICAL

Diffused symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Curved screen in self-extinguishing polycarbonate, UV stabilised, opal, with smooth outer surface.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Connection to the structure with mobile plug with phase selection (H05Z-U Halogen Free cable section 0,5 mm^2 HT90).

INSTALLATION

This lighting unit can be installed only on profile 3F Linux S | IP40 (see dedicated product pages).

APPLICATIONS

Environments: commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops, schools.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

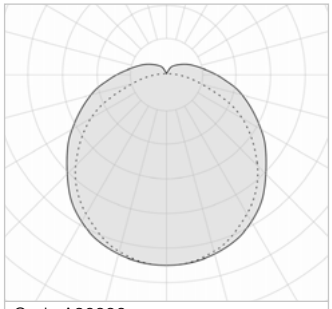
ON REQUEST

- asymmetric lighting distribution
- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours
- wiring: CLO (page 662)
- emergency versions

3F Linux D

850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code A20336

Diffuse distribution.
Structure height (3F Linux S + 3F Linux D) equal to 81 mm.

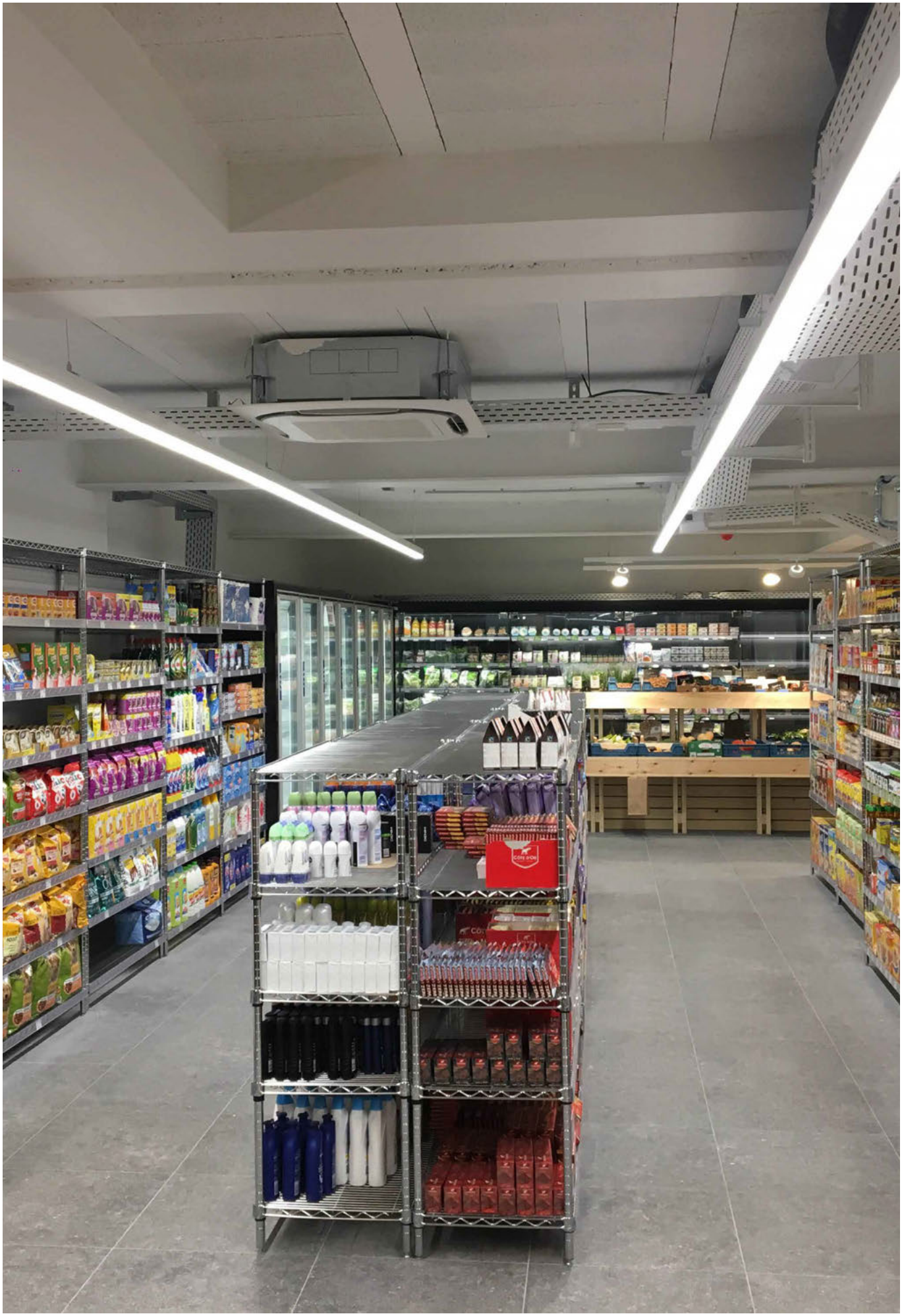
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20336	3F Linux D 2x22 LED L1778	49	6236	4000	>80	1778x62x47
A20335	3F Linux D 2x30 LED L1778	66	7835	4000	>80	1778x62x47

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20350	3F Linux D 2x22 LED DALI L1778	49	6236	4000	>80	1778x62x47
A20349	3F Linux D 2x30 LED DALI L1778	66	7835	4000	>80	1778x62x47

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**




WASTED
EXCLU
CITADIUM


H
L
A



3F Linux DR

ILLUMINOTECHNICAL

Direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Rectangular screen in self-extinguishing polycarbonate, UV stabilised, with smooth outer surface.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Connection to the structure with mobile plug with phase selection (H05Z-U Halogen Free cable section 0,5 mm^2 HT90).

INSTALLATION

This lighting unit can be installed only on profile 3F Linux S | IP40 (see dedicated product pages).

APPLICATIONS

Environments: commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops, schools.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

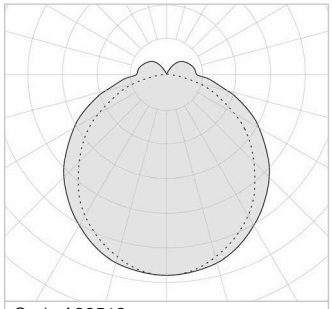
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours
- wiring: CLO (page 662)
- emergency versions

3F Linux DR

850°C IP40 1J IK06 Driver/LED SELV HACCP





Code A20512

Diffused symmetric distribution.
Rectangular opal polycarbonate diffuser.
Structure height (3F Linux S + 3F Linux DR) equal to 81 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20512	3F Linux DR 2x22 LED L1778	49	6253	4000	>80	1778x62x47
A20511	3F Linux DR 2x30 LED L1778	66	7856	4000	>80	1778x62x47

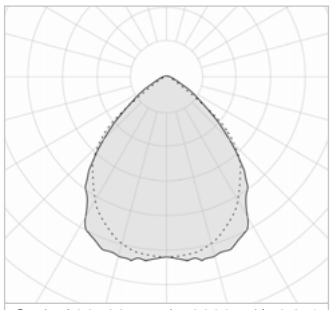
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20526	3F Linux DR 2x22 LED DALI L1778	49	6253	4000	>80	1778x62x47
A20525	3F Linux DR 2x30 LED DALI L1778	66	7856	4000	>80	1778x62x47

3F Linux DR UGR

850°C IP40 1J IK06 Driver/LED SELV HACCP





Code A20596 L<3000 cd/m² 65°

Controlled symmetric distribution.
1x30 - Average luminance <1500 cd/m² for radial angles >65°.
2x22 - Average luminance <3000 cd/m² for radial angles >65°.
Rectangular transparent polycarbonate diffuser.
Semi-specular aluminium internal louvre with prismatic methacrylate (PMMA) filter above the louvre blades for complete shielding of the louvre compartment.
Structure height (3F Linux S + 3F Linux DR) equal to 81 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20595	3F Linux DR 1x30 LED UGR L1778	34	3487	4000	>80	1778x62x47
A20596	3F Linux DR 2x22 LED UGR L1778	49	5361	4000	>80	1778x62x47

DALI electronic wiring 230V-50/60Hz

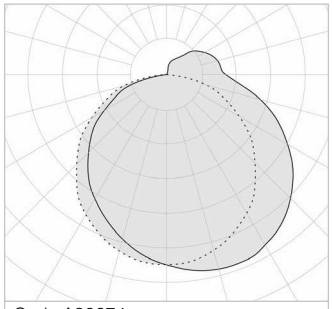
Code	Item	W	lm	K	CRI	L x A x H
A20599	3F Linux DR 1x30 LED DALI UGR L1778	34	3487	4000	>80	1778x62x47
A20600	3F Linux DR 2x22 LED DALI UGR L1778	49	5361	4000	>80	1778x62x47

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linux DR AS

850°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code A20674

Asymmetric distribution.
Rectangular opal polycarbonate diffuser.
Internal flow recuperator in white steel.
Structure height (3F Linux S + 3F Linux DR) equal to 81 mm.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20674	3F Linux DR 2x30 LED AS L1778	66	6403	4000	>80	1778x62x47

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20679	3F Linux DR 2x30 LED DALI AS L1778	66	6403	4000	>80	1778x62x47



Colzani Moto
Torino
Italia/Italy





3F Linux DT

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Light unit in hot-galvanised steel, painted in white polyester base with fixing springs and retractable safety hooks in stainless steel.
Diffuser with differentiated geometry, made of transparent methacrylate (PMMA) with microprismatic finish, anti-glare on the flat part and opal on the side.
Anti-glare opal methacrylate (PMMA) filter for brightness uniformity.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Connection to the structure with mobile plug with phase selection (H05Z-U Halogen Free cable section 0,5 mm² HT90).

APPLICATIONS

In commercial environments, exhibition areas, shops and stores.
In environments with VDTs, managerial offices and staterooms, public offices and schools.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

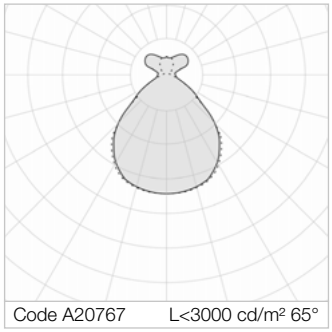
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing and accessories in different RAL colours
- wiring: CLO (page 662)

3F Linux DT UGR

650°C | IP40 | 1J | IK06 | Driver/LED SELV | HACCP





Code A20767 L<3000 cd/m² 65°

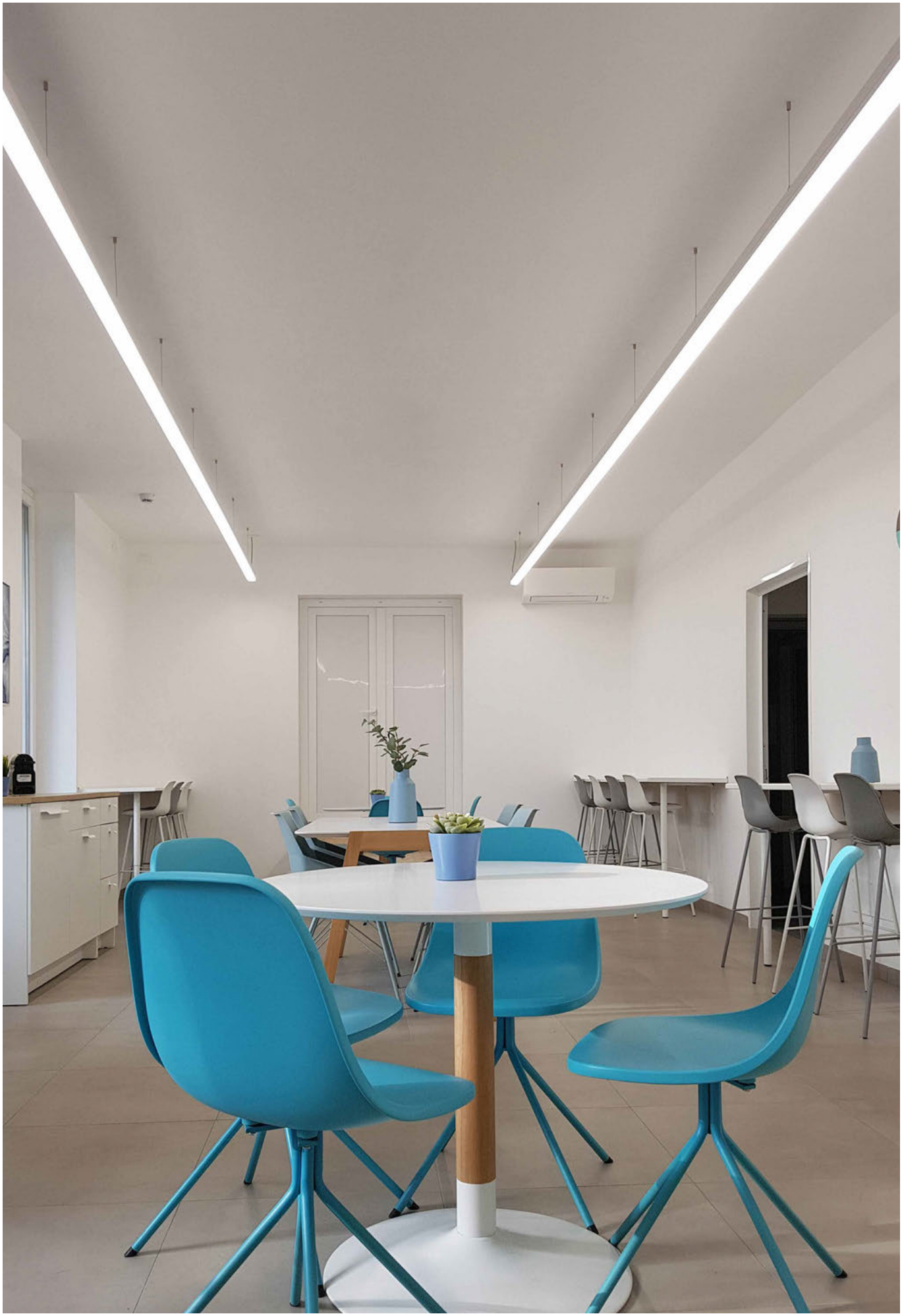
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20766	3F Linux DT 2x15 LED UGR L1778	34	4900	4000	>80	1778x118x95
A20767	3F Linux DT 2x30 LED UGR L1778	66	9122	4000	>80	1778x118x95

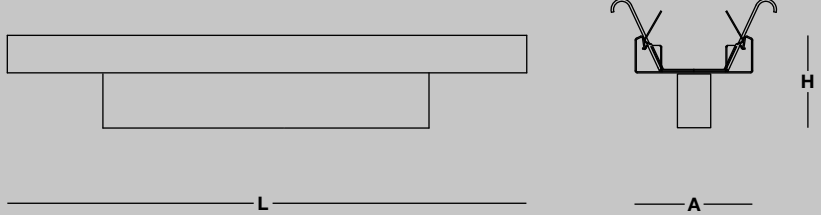
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A20768	3F Linux DT 2x15 LED DALI UGR L1778	34	4900	4000	>80	1778x118x95
A20769	3F Linux DT 2x30 LED DALI UGR L1778	66	9122	4000	>80	1778x118x95

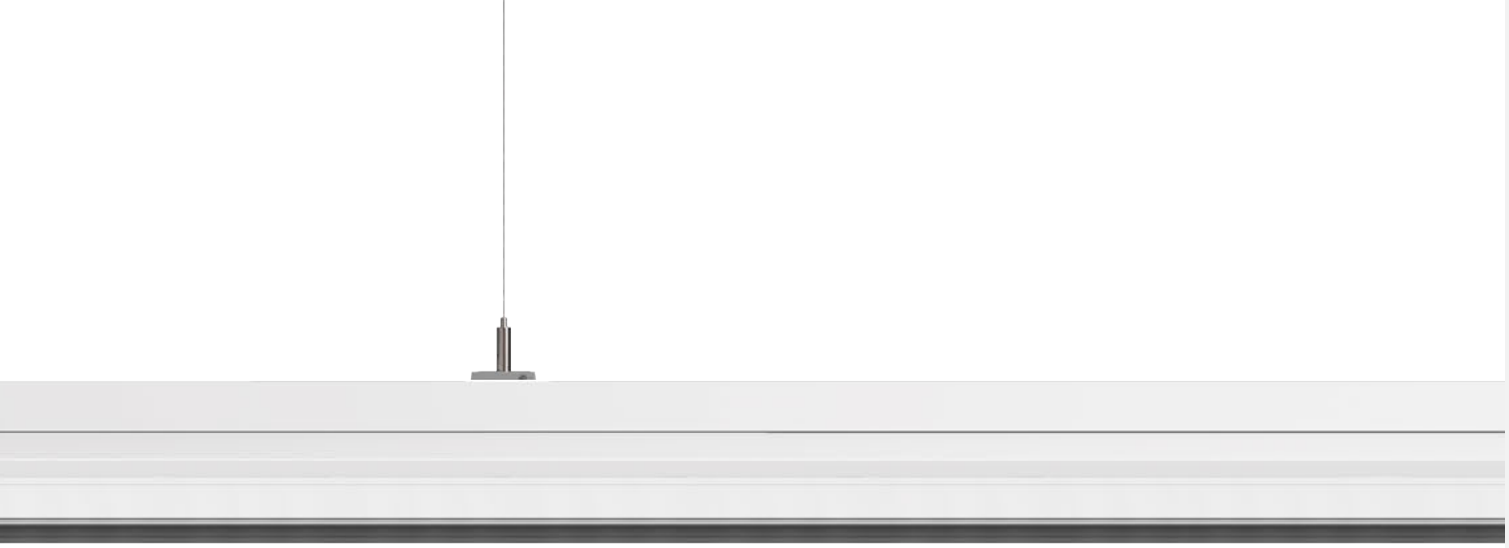
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**







Garage Vecchio
Mellingen
Switzerland



3F Linux Track

MECHANICAL

Light unit in hot-galvanised steel with white polyester powder coating, with retractable fastening clips and stainless steel safety hooks.
Electrified busbar made from extruded white aluminium, Eurostandard Plus compliant.
The wires are enclosed in rigid extruded profiles made of PVC insulating material with high dielectric strength.
Length of the electrified busbar: 1500 mm.

ELECTRICAL

Connection to the structure with mobile 7-pin plug with phase selection (H05Z-U Halogen Free cable section 0.5 mm^2 HT90).
(L1/L2/L3/N/GRD/DA/DA) 16A/440V 2x1A/50V FELV AC (DALI).
Copper conductors.

INSTALLATION

This unit can be installed only on profile 3F Linux S | IP40 (see dedicated product pages).

ON REQUEST

- black and grey electrified busbar

3F Linux Track

CE 960°C IP20



Eurostandard Plus 6-conductor (plus earth) busbar (L1/L2/L3/N/GRD/DA/DA) 16A/440V with power supply cap and closing cap.

Code	Item	L x A x H
A20424	3F Linux TK L1778	1778x62x57

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linux | Accessories



Code	Item
A20450	Slid.invis.brack.w/adj.for susp.3F Linux

Free-position invisible sliding bracket with regulator in stainless steel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
The suspension cable must be made of galvanised steel with 49 elementary wires of minimum 1.5 mm diameter (for a weight of 15 kg) and 2 mm (for a weight of 25 kg).



Code	Item
A20451	Slid.invis.brack.ceiling instal.3F Linux

Free-position sliding bracket in stainless steel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.



Code	Item
A20453	S-shaped chain hook w/slid.bra. 3F Linux

Free-position sliding bracket in stainless steel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
Supplied with S-hook for galvanised steel chain.



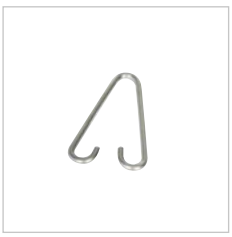
Code	Item
A0052	Wall-mounting brack

Wall-mounting bracket, in white painted steel.



Code	Item
A20474	Safety screw locking slid.bra.3F Linux S

Safety screw for locking the sliding bracket, made of hot galvanised steel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
These accessories must ALWAYS be used with one of the following codes: A20450 - A20451 - A20453.



Code	Item
A20452	Stainless steel hook for chain

Hook to suspended luminaires to a chain.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
These accessories must ALWAYS be used with one of the following codes: A20451.



Code	Item
A20485	Suspension without adjustment - 0.5 m
A20486	Suspension without adjustment - 1 m
A20487	Suspension without adjustment - 2 m
A20488	Suspension without adjustment - 3 m
A20489	Suspension without adjustment - 4 m
A20490	Suspension without adjustment - 5 m
A20491	Suspension without adjustment - 6 m

Suspension without controller, galvanised steel cable 1.5 mm diameter, load 15 kg.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
In the case of purchase of only one sliding bracket with controller (code A20450), the suspension cable must be made of galvanised steel with 49 elementary wires of minimum 1.5 mm diameter (for a weight of 15 kg).



Code	Item
A02562	Caddy for exposed profiles of 24 mm

Caddy hook to create a point from which to suspend the system or the loads to false ceilings with visible profiles.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
To be installed on exposed profiles (width 24 mm) of false ceilings. We recommend reinforcing the false-ceiling fixing at the point where the Caddy is to be installed. Supplied complete with nut and washer. The suspension must be purchased separately.
This accessory must ALWAYS be used with one of the following codes: A20485 - A20486 - A20487 - A20488 - A20489 - A20490 - A20491.



Code	Item
A0716	Coil galv. cable diam. 1.5mm - 100m The pack contains 100 metres.
A0717	Coil galv. cable diam. 1.5mm - 500m The pack contains 500 metres.
A0718	Coil galv. cable diam. 1.5mm - 1000m The pack contains 1000 metres.

Galvanised steel cable, diameter 1.5 mm, composed of 49 wires. 15 kg capacity (ratio 5:1).
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
These accessories must ALWAYS be used with one of the following codes: A20450, (A20452+A0714) o (A20451+A0659).



Code	Item
A0714	Clamp 2 holes susp.- 100 pcs The pack contains 100 pieces.

Clamp in nickel-plated brass suitable for fixing and adjustment of galvanised steel wire (diameter 1,25 mm 1,5 mm - 2 mm), complete with locking screws. The 2 hole clamp allows to block and adjust the cable on a bearing element (part of the building) or on rounded eye bolt.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.



Code	Item
A0659	Adjustable clamp 2 holes - 10 pcs The pack contains 10 pieces.

Clamp suitable for fixing and adjustment of galvanised steel wire (diameter 1.5 mm), with quick adjustment through unlock buttons. The clamp with 2 holes allow to fix and adjust the cable on the carrier structural element (belonging to the building) or with eye screw fixing.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
This accessory can be used with one of the following codes: A20450 - A0716 - A0717 - A0718.



Code	Item
A20433	Linear connecting element

Element to connect in hot-galvanised steel.
Accessory compatible with 3F Linux S - IP40.



Code	Item
A20434	T-Connecting element 3F Linux

T-shaped connecting element in hot-galvanised steel.
Accessory compatible with 3F Linux S - IP40.
Accessory not compatible with code A20428.



Code	Item
A20436	L-Connecting element 3F L Linux

L-shaped connecting element in hot-galvanised steel.
Accessory compatible with 3F Linux S - IP40.
Accessory not compatible with code A20428.



Code	Item
A20448	Pair of closing end 3F Linux

Pair of closing end 3F Linux S, made of white polycarbonate.
Accessory compatible with 3F Linux S - IP40.

850°C



Code	Item
A20478	Anti-slip term. incli. 3F Linux

Safety bracket in white painted steel to secure lighting elements if installed vertically.
Accessory compatible with 3F Linux S - IP40.
This accessory must ALWAYS be used with code A20448.



Code	Item
A20442	Closing Top HIGH - L1778

High closing top, with a length of 1778 mm that can be cut to 889 mm, made of impact-resistant white PVC.
Accessory compatible with 3F Linux S - IP40.

650°C



Code	Item
A20743	IP54 - L1778 Closing Top

IP54 high closing top, with a length of 1778 mm that can be cut to 889 mm, made of impact-resistant white PVC.
Accessory compatible with 3F Linux S - IP54.

650°C



Code	Item
A20428	Closing Top LOW - L1778

Cuttable low closing top, with a length of 1778 mm that can be cut, made of impact-resistant white PVC.
Accessory compatible with 3F Linux S-NL IP40.

650°C



Code	Item
A20475	3F Linux Cable Support (10 pcs) The pack contains 10 pieces.

Electric cable support. One every 50 cm is recommended. Made of polycarbonate.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.



Code	Item
A20470	Pair of mounting brack. lum. 3F Linux S

Brackets for the installation of luminaries on 3F Linux S and S-NL bars (check the compatibility with our technical departments). Made of hot galvanised steel.
Accessory compatible with 3F Linux S - IP40.



Code	Item
A20504	Pair brack.3F Linda instal.in 3F Linux S

Brackets for installation of 3F Linda luminaries on 3F Linux S structures. Made from hot-galvanised steel.



Code	Item
A20740	IP54 3F Linux End terminal

Closing end 3F Linux S IP54, made of white polycarbonate.
Accessory compatible with 3F Linux S - IP54.



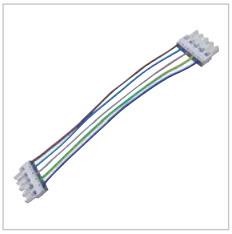
Code	Item
A20741	IP54 3F Linux End terminal with 1 hole

IP54 end terminal with a power-supply line entry hole.
Accessory compatible with 3F Linux S - IP54.



Code	Item
A20742	IP54 3F Linux End terminal with 2 holes

IP54 end terminal with two power-supply line entry holes.
Accessory compatible with 3F Linux S - IP54.



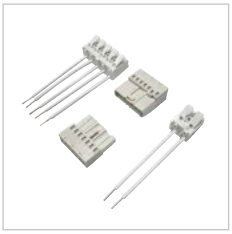
Code	Item
A20459	5-pole socket-plug L-branch 3F Linux S
A20460	7-pole socket-plug L-branch 3F Linux S

Electric branch with plug-socket to realise L-shaped connections.
Accessory compatible with 3F Linux S - IP40.
These accessories must ALWAYS be used with code A20436. Accessories not compatible with codes: A20011 - A20012.



Code	Item
A20464	5-pole socket-plug T-branch 3F Linux S
A20465	7-pole socket-plug T-branch 3F Linux S

Electric branch with plug-socket to realise T-shaped connections.
Accessory compatible with 3F Linux S - IP40.
These accessories must ALWAYS be used with code A20434. Accessories not compatible with codes: A20011 - A20012.



Code	Item
A20454	5-pole socket-plug term.block 3F Linux S
A20455	7-pole socket-plug term.block 3F Linux S

Quick connection non-reversible plug-socket terminal block, for connection to the power line at the start or end of the channel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
Accessories not compatible with codes: A20011 - A20012.



Code	Item
A20500	Cen.pow-sup.soc-plug ter-blo.3FLinuxS 5P
A20501	Cen.pow-sup.soc-plug ter-blo.3FLinuxS 7P

Quick connection non-reversible plug-socket terminal block, for connection to the power line at the centre of the channel.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
Accessories not compatible with codes: A20011 - A20012.



Code	Item
A0490	Connection to the earth

Connection to the earth, by means of galvanised M5 screw and nut, for Ø 6 mm hole at the end of every structure.
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.



Code	Item
A20479	Power cable for luminaires 3P-3F Linux
A20480	Power cable for luminaires 5P-3F Linux

Power cable for luminaires not part of the 3F Linux system.
Accessory compatible with 3F Linux S - IP40.
Accessories not compatible with codes: A20011 - A20012.



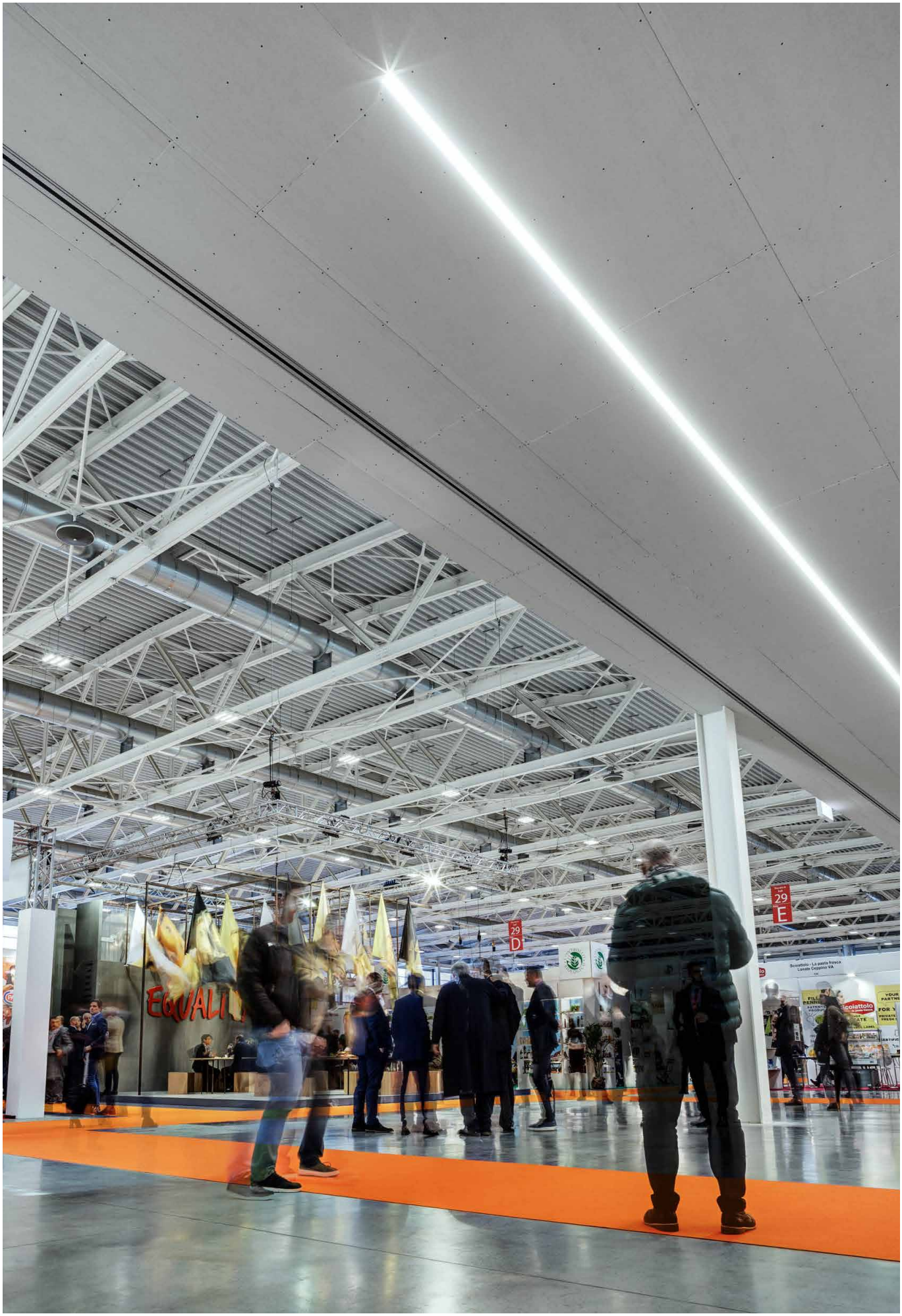
Code	Item
A0801	Electric extension with 5P plug 3F Linux S
A0802	Electric extension with 3P plug 3F Linux S

Extension cord to connect some light modules interspersed with blind covers with a length of 889 mm (contact our technical department).
Accessory compatible with 3F Linux S - IP40, 3F Linux S - IP54.
Both codes are supplied with a free-wire extension cable and a 7P 3F Linux power tower for a possible switchover.



Code	Item
A20476	Contact pin for 3F Linux plug (50 pcs.) The pack contains 50 pieces.

Additional contact for light unit plug.
Accessory compatible with 3F Linux S - IP40, 3F Linux L, 3F Linux D, 3F Linux DR, 3F Linux DT, 3F Linux Track.
Accessory not compatible with codes: A20011 - A20012.

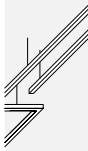

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DAL 29 OTTOBRE
AL 1° NOVEMBRE
RITIRA ALLE CASSE
IL BUONO SPESA DA 5€
5€
UTILIZZALO
DAL 2 ALL'8 NOVEMBRE
SU UNA SPESA MINIMA DI 30€
USCITA DI EMERGENZA
SPECIALE VINI
1+1=3
PRENDI 3 PAGHI 2.
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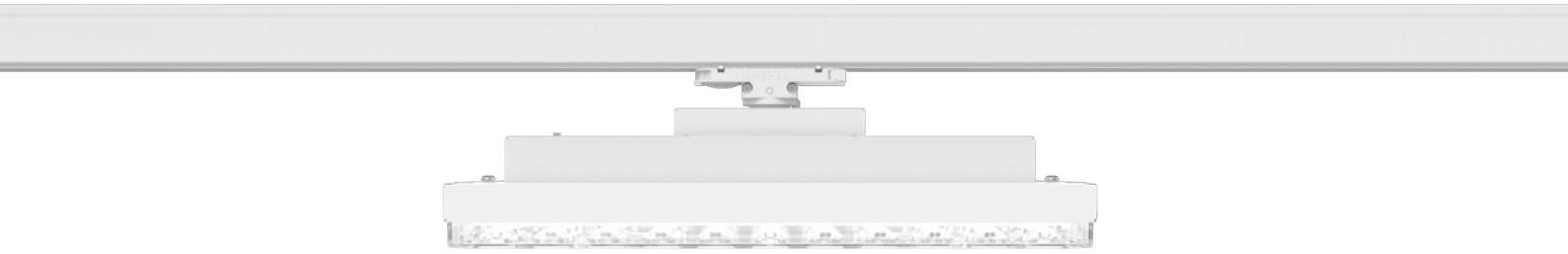
/ 3F Six

3F Six is the product designed by 3F Filippi for shopping centres, exhibition areas and warehouses.
The luminaire (available in both square and rectangular versions) can be flexibly installed on a busbar or electrified track.

3F Six is just 30 mm high, and thanks to the use of six methacrylate (PMMA) optical lenses installed on the luminaire itself, it is possible to obtain customised luminous distribution by choosing from the eight types of optics available:
wide, double asymmetric, wide double asymmetric, asymmetric, medium, concentrated, hyper concentrated and UGR.



3F Six
Ipercoop Centro Borgo
Bologna, Italy



3F Six Track
307x378x52

Comfort and **versatility.**

The latter configuration (UGR), designed to be used in environments with more stringent vision requirements or where there are VDTs, uses lenses with controlled luminance and a UGR<19 glare index.

3F Six is available in a version with ON/OFF wiring or DALI control to manage the fixture and the energy consumption of the entire lighting system.



3F Six BB
602x190x52

Track

Bus bar



Range

3F Six

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Six Track Wide	40 - 55,5	6936 - 9855	/840	ON/OFF D2	Wide	1,39 x 1,43	307x378x52 602x190x52
3F Six Track Medium	40 - 55,5	6843 - 9723	/840	ON/OFF D2	Medium	1,16 x 1,19	307x378x52
3F Six Track BAT	40 - 55,5	6950 - 9876	/840	ON/OFF D2	BAT [1]	/	602x190x52
3F Six Track BAT WD	40 - 55,5	6928 - 9845	/840	ON/OFF D2	BAT WD [2]	/	602x190x52
3F Six Track UGR	40	6914	/840	ON/OFF D2	UGR	1,39 x 1,30	307x378x52 602x190x52



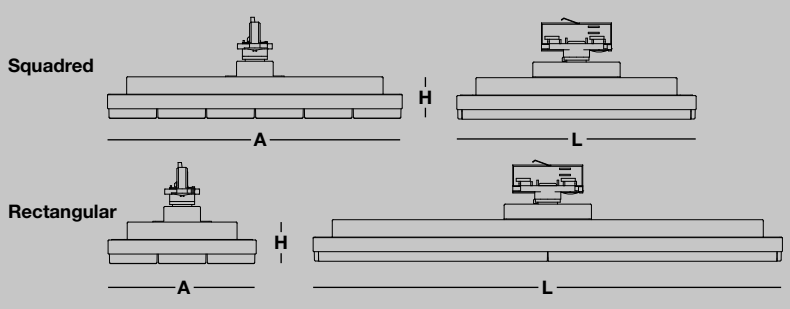
Range

3F Six

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Six Track Wide	55,5 - 83	9855 - 14086	/840	ON/OFF D2	Wide	1,39 x 1,43	307x378x52
3F Six Track Medium	55,5 - 83	9723 - 13898	/840	ON/OFF D2	Medium	1,16 x 1,19	307x378x52
3F Six Track UGR	40	6914	/840	ON/OFF D2	UGR	1,39 x 1,30	307x378x52

(1) Double asymmetrical distribution.
(2) Wide double symmetric distribution.





Manitou canteen
Cavazzona (MO)
Italia/Italy



3F Six Track

ILLUMINOTECHNICAL

Direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Height only 52 mm.
Methacrylate (PMMA) lenses with external flat surface.
The fixture can be rotated horizontally from 0° to 330°.

ELECTRICAL

In compliance with EN 60598-1.
Truck adapter, 4/6-way.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: industrial, commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops.

UGR version
Environments that need luminance control.

LIGHT MANAGEMENT

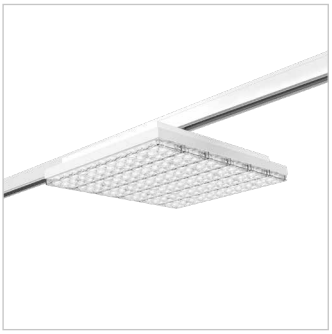
The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

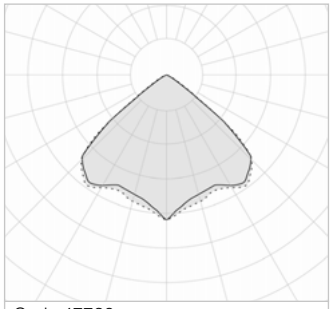
ON REQUEST

- different light distributions
- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours
- wiring: CLO (page 662)
- fixture rotation lock bracket
- emergency versions
- versions compliant with EN 60598-2-22 for central emergency power supply system (CPSS) or with on-board battery

3F Six Track Wide

650°C | IP40 | 1J | IK06





Code 47720

Wide distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47722	3F Six TK WH 40/840 WIDE 307x378	40	6936	4000	>80	307x378x52
47742	3F Six TK WH 40/840 WIDE 190x602	40	6936	4000	>80	602x190x52
47721	3F Six TK WH 50/840 WIDE 307x378	46	8247	4000	>80	307x378x52
47741	3F Six TK WH 50/840 WIDE 190x602	46	8247	4000	>80	602x190x52
47720	3F Six TK WH 60/840 WIDE 307x378	55.5	9855	4000	>80	307x378x52
47740	3F Six TK WH 60/840 WIDE 190x602	55.5	9855	4000	>80	602x190x52

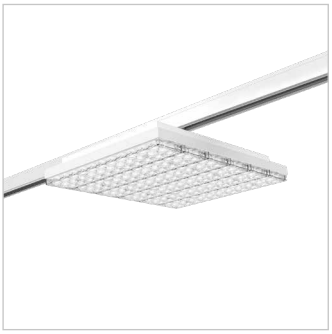
DALI electronic wiring 230V-50/60Hz

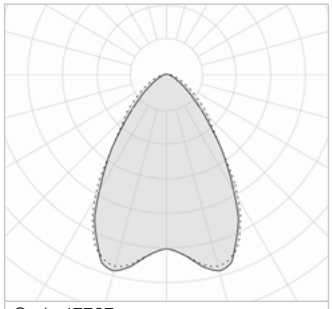
Code	Item	W	lm	K	CRI	L x A x H
47725	3F Six TK WH 40/840 DALI WIDE 307x378	40	6936	4000	>80	307x378x52
47745	3F Six TK WH 40/840 DALI WIDE 190x602	40	6936	4000	>80	602x190x52
47724	3F Six TK WH 50/840 DALI WIDE 307x378	46	8247	4000	>80	307x378x52
47744	3F Six TK WH 50/840 DALI WIDE 190x602	46	8247	4000	>80	602x190x52
47723	3F Six TK WH 60/840 DALI WIDE 307x378	55.5	9855	4000	>80	307x378x52
47743	3F Six TK WH 60/840 DALI WIDE 190x602	55.5	9855	4000	>80	602x190x52

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Six Track Medium

650°C | IP40 | 1J | IK06





Code 47727

Medium distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47729	3F Six TK WH 40/840 MEDIUM 307x378	40	6843	4000	>80	307x378x52
47728	3F Six TK WH 50/840 MEDIUM 307x378	46	8136	4000	>80	307x378x52
47727	3F Six TK WH 60/840 MEDIUM 307x378	55.5	9723	4000	>80	307x378x52

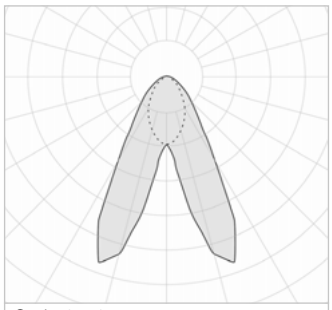
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47732	3F Six TK WH 40/840 DALI MEDIUM 307x378	40	6843	4000	>80	307x378x52
47731	3F Six TK WH 50/840 DALI MEDIUM 307x378	46	8136	4000	>80	307x378x52
47730	3F Six TK WH 60/840 DALI MEDIUM 307x378	55.5	9723	4000	>80	307x378x52

3F Six Track BAT

650°C | IP40 | 1J | IK06





Code 47747

Double asymmetrical distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47749	3F Six TK WH 40/840 BAT 190x602	40	6950	4000	>80	602x190x52
47748	3F Six TK WH 50/840 BAT 190x602	46	8264	4000	>80	602x190x52
47747	3F Six TK WH 60/840 BAT 190x602	55.5	9876	4000	>80	602x190x52

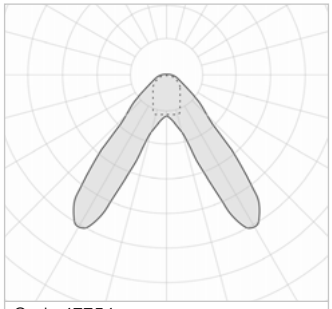
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47752	3F Six TK WH 40/840 DALI BAT 190x602	40	6950	4000	>80	602x190x52
47751	3F Six TK WH 50/840 DALI BAT 190x602	46	8264	4000	>80	602x190x52
47750	3F Six TK WH 60/840 DALI BAT 190x602	55.5	9876	4000	>80	602x190x52

3F Six Track BAT WD

650°C | IP40 | 1J | IK06





Code 47754

Wide double symmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

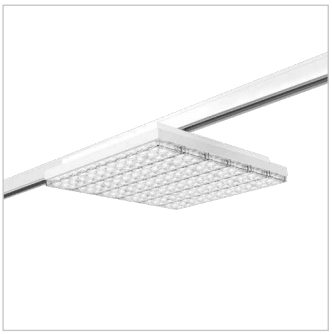
Code	Item	W	lm	K	CRI	L x A x H
47756	3F Six TK WH 40/840 BAT WD 190x602	40	6928	4000	>80	602x190x52
47755	3F Six TK WH 50/840 BAT WD 190x602	46	8238	4000	>80	602x190x52
47754	3F Six TK WH 60/840 BAT WD 190x602	55.5	9845	4000	>80	602x190x52

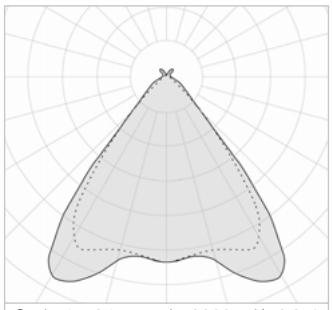
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47759	3F Six TK WH 40/840 DALI BAT WD 190x602	40	6928	4000	>80	602x190x52
47758	3F Six TK WH 50/840 DALI BAT WD 190x602	46	8238	4000	>80	602x190x52
47757	3F Six TK WH 60/840 DALI BAT WD 190x602	55.5	9845	4000	>80	602x190x52

3F Six Track UGR

650°C | IP40 | 1J | IK06





Code 47734 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47761	3F Six TK WH 40/840 UGR 190x602	40	6914	4000	>80	602x190x52
47734	3F Six TK WH 40/840 UGR 307x378	40	6914	4000	>80	307x378x52

DALI electronic wiring 230V-50/60Hz

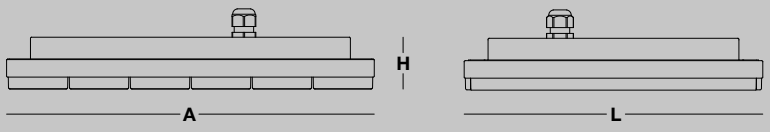
Code	Item	W	lm	K	CRI	L x A x H
47762	3F Six TK WH 40/840 DALI UGR 190x602	40	6914	4000	>80	602x190x52
47735	3F Six TK WH 40/840 DALI UGR 307x378	40	6914	4000	>80	307x378x52

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


USCITA



Ipercoop Centro Borgo
Bologna
Italia/Italy





3F Six Blindo

ILLUMINOTECHNICAL

Direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in galvannealed steel, painted in white epoxy-polyester.
Height only 52 mm.
Methacrylate (PMMA) lenses with external flat surface.
Can be positioned transversally or longitudinally to the busway.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Power cable type H05Z1Z1-F 3-5x1.5 mm² that protrudes by 1 m with sheared ends.

INSTALLATION

This product is suitable for installation on a busway (hooking brackets not included).

APPLICATIONS

Environments: industrial, commercial, exhibition areas, transit areas, lobbies or waiting rooms, shops.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

UGR version
Environments that need luminance control.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

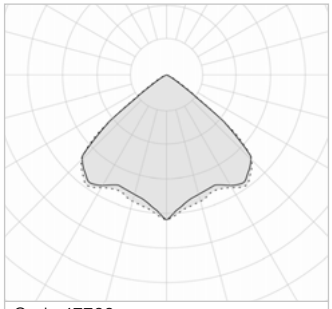
ON REQUEST

- different light distributions
- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours
- wiring: CLO (page 662)
- versions with rectangular shape
- different dimensions
- emergency versions

3F Six Blindo Wide

650°C | IP40 | 1J | IK06





Code 47700

Wide distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47700	3F Six WH 60/840 WIDE 307x378	55.5	9855	4000	>80	307x378x52
47699	3F Six WH 70/840 WIDE 307x378	67	11427	4000	>80	307x378x52
47698	3F Six WH 85/840 WIDE 307x378	83	14086	4000	>80	307x378x52

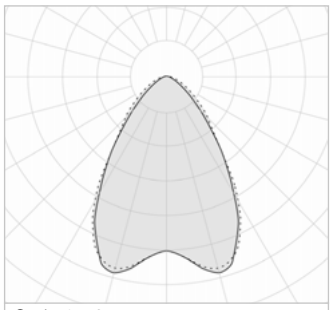
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47703	3F Six WH 60/840 DALI WIDE 307x378	55.5	9855	4000	>80	307x378x52
47702	3F Six WH 70/840 DALI WIDE 307x378	67	11427	4000	>80	307x378x52
47701	3F Six WH 85/840 DALI WIDE 307x378	83	14086	4000	>80	307x378x52

3F Six Blindo Medium

650°C | IP40 | 1J | IK06





Code 47707

Medium distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47707	3F Six WH 60/840 MEDIUM 307x378	55.5	9723	4000	>80	307x378x52
47706	3F Six WH 70/840 MEDIUM 307x378	67	11273	4000	>80	307x378x52
47705	3F Six WH 85/840 MEDIUM 307x378	83	13898	4000	>80	307x378x52

DALI electronic wiring 230V-50/60Hz

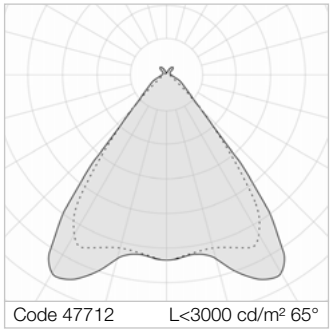
Code	Item	W	lm	K	CRI	L x A x H
47710	3F Six WH 60/840 DALI MEDIUM 307x378	55.5	9723	4000	>80	307x378x52
47709	3F Six WH 70/840 DALI MEDIUM 307x378	67	11273	4000	>80	307x378x52
47708	3F Six WH 85/840 DALI MEDIUM 307x378	83	13898	4000	>80	307x378x52

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Six Blindo UGR

650°C IP40 1J IK06





Code 47712 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47712	3F Six WH 40/840 UGR 307x378	40	6914	4000	>80	307x378x52

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
47713	3F Six WH 40/840 DALI UGR 307x378	40	6914	4000	>80	307x378x52


Boulangerie Michel d'Ohain
BY FOODIE'S MARKET
Bio

/ 3F Emilio

3F Emilio is the high-end LED spotlight designed by Belgian designers Serge and Robert Cornelissen.
The lighting body has been designed to obtain the best energy and lighting performance in various contexts.

In order to obtain excellent thermal efficiency with a high size to luminous flux ratio, the body of the spotlight has inner fins, while the outside is smooth to facilitate cleaning.

The 3F Filippi technology used in this system also allows effective control of luminance, withou affecting the optical performance and visual comfort.

Its simple and refined lines, which alongside its reduced size represent an additional advantage, makes 3F Emilio the most suitable solution for numerous environments, from retail to contract.

3F Emilio TK
Foodie's Market
Waterloo, Belgium



Many **accents** for your light.

3F Emiliom Track is the LED spotlight with a simple and refined design which, thanks to its high efficiency, represents the ideal solutions for emphasising products in points of sale, even those of significant size.

The following versions of LED sources are available:
Warm White (2700K).
White (3000K).
Neutral white (4000K).
Meat (specific version for meat).
Crisp (specific version for clothing and perfumes).
Bread (specific version for bread).

On request: High colour rendering index (CRI).

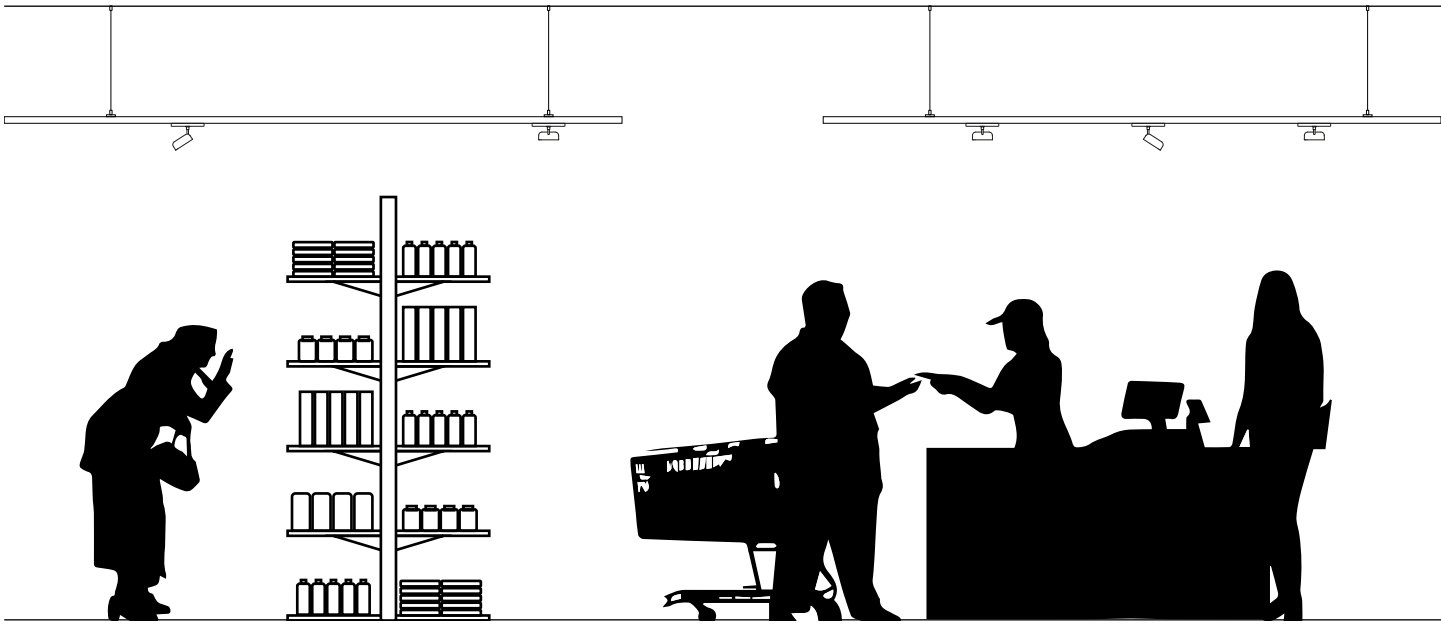


Here is a brief guide for choosing the correct colour temperature version:

	/840	/830	/827	/940	/930	/MEAT	/BREAD	/CRISP
General	•							
Fish/seafood	•			•				
Wine		•	•		•			
Fruit/veg		•			•			
Cheese/dairy		•	•		•			
Meat						•		
Deli		•			•	•		
Bread/baked goods			•				•	
Clothing				•	•			•
Chicken/rotisserie		•			•	•		
Pastries			•				•	
Perfumes	•			•				•
Flowers/plants		•		•	•			

These are just provided as design tips and are not intended to replace personal taste or the choices of individual lighting designers,rather they are meant only as a quick consultation tool.

Track



Range

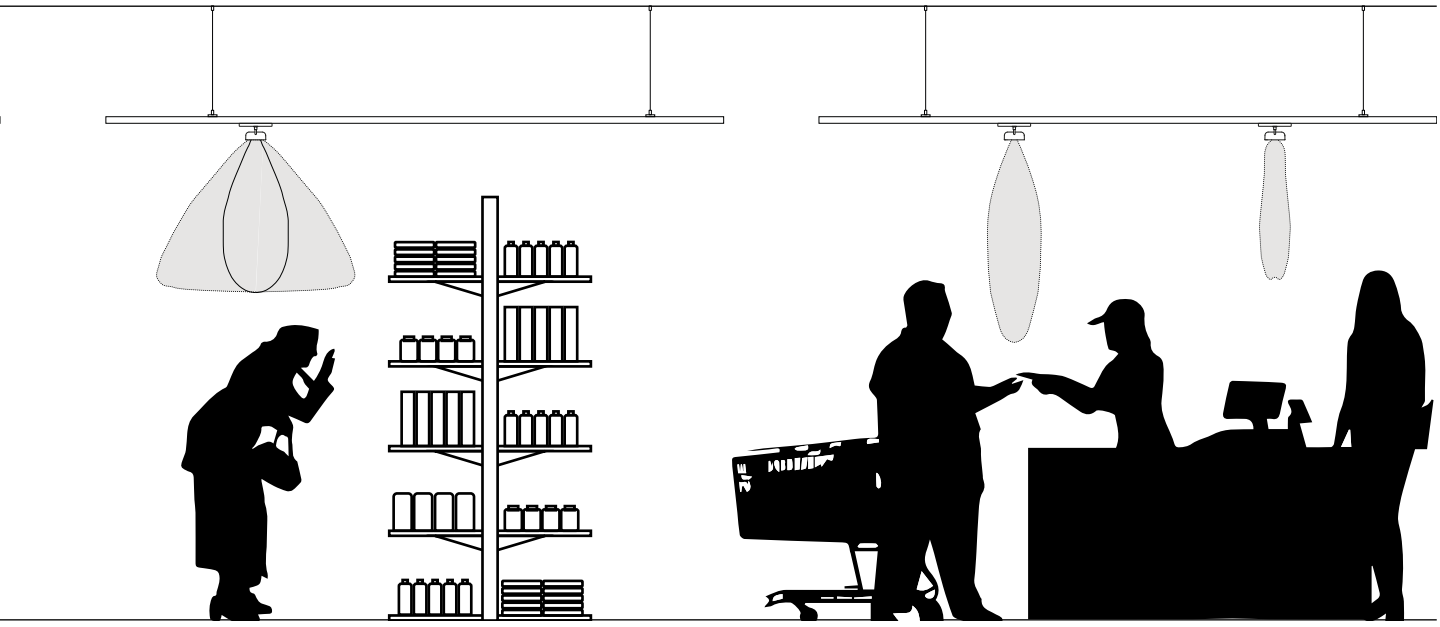
3F Emilio

	W	lm	LED	Wiring	Opening angle	Distribution	ø x L x H
3F Emilio Track Spot	29 - 36	2266 - 3961	/827 /830 /840 /930 /940	ON/OFF DALI	29° - 31°	Spot	130 x 230 x 105
3F Emilio Track Elliptical	29 - 36	2571 - 4086	/827 /830 /840 /930 /940	ON/OFF	42° - 85°	Elliptical	130 x 230 x 105
3F Emilio Track Iperconcentrated	29 - 36	2518 - 3948	/827 /830 /840 /930 /940	ON/OFF	23°	Iper-concentrated	130 x 230 x 105

Elliptical

Spot

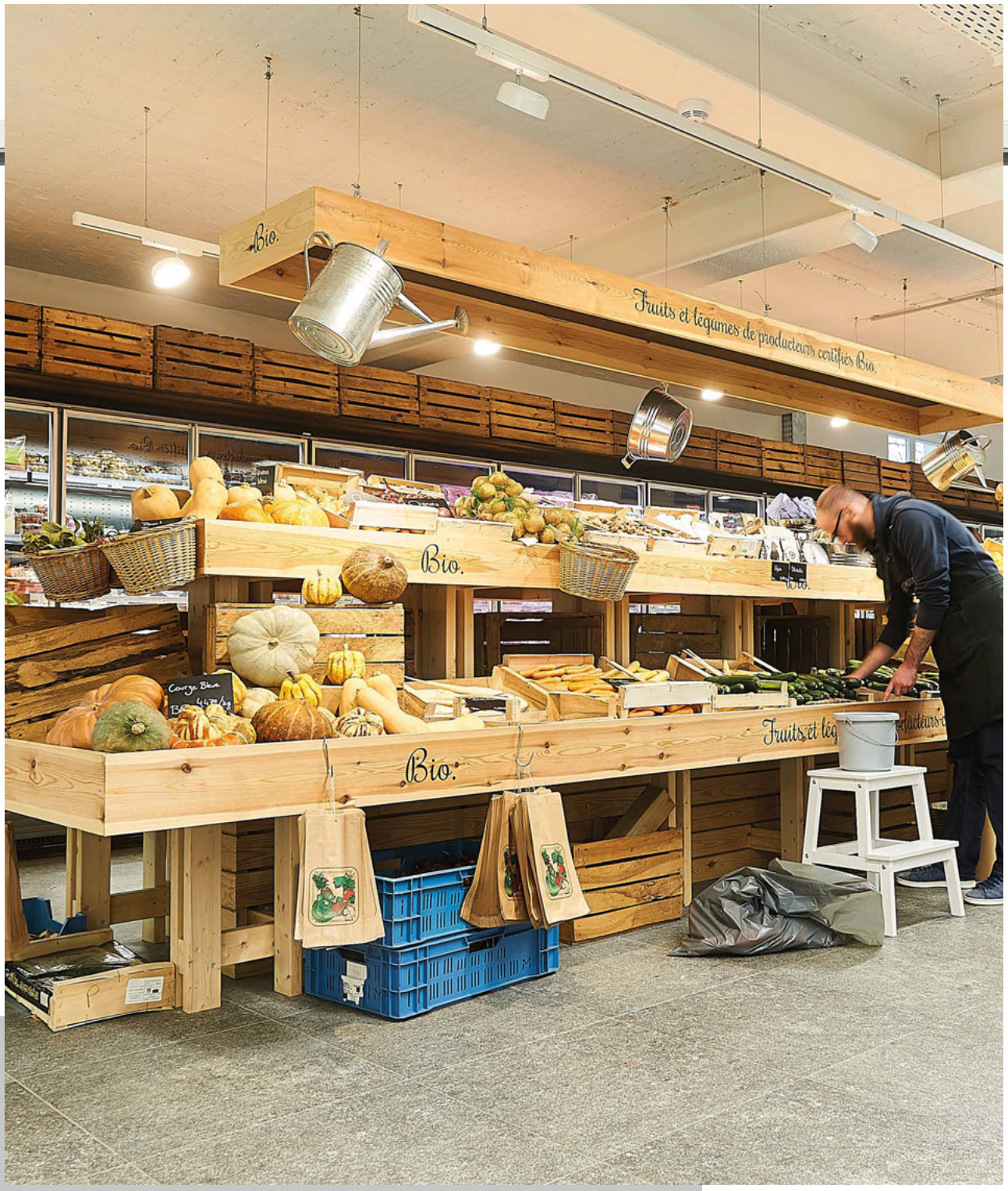
Iperconcentrated

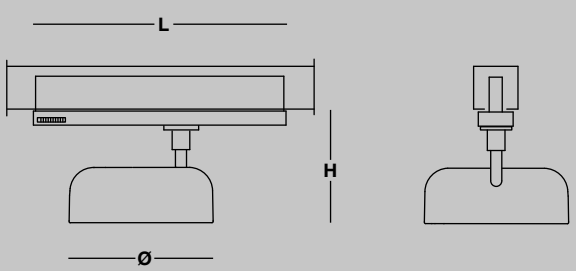


Range

3F Emilio

	W	lm	LED	Wiring	Opening angle	Distribution	ø x L x H
3F Emilio Track Spot Meat/Bread/Crisp	32 - 35	1823 - 2433	/Meat /Bread /Crisp	ON/OFF	31° - 39°	Spot	130 x 230 x 105
3F Emilio Track Elliptical Meat/Bread/Crisp	32 - 35	1998 - 2509	/Meat /Bread /Crisp	ON/OFF	46° - 88°	Elliptical	130 x 230 x 105
3F Emilio Track Iperconcentrated Meat/Bread/Crisp	32 - 35	1975 - 2425	/Meat /Bread /Crisp	ON/OFF	23°	Iper-concentrated	130 x 230 x 105





Foodies Market
Waterloo
Belgique/Belgium



3F Emilio Track

ILLUMINOTECHNICAL

Symmetrical (TK), elliptical (TK ELL) and hyperconcentrated (TK IPER) spot distribution.
Lifetime (L80/B20): 50000 h. (tq+25°C)
Photobiological safety RG1 (page 16).

SOURCE

Compact LED module.
Compact LED modules, /MEAT (version for meats), /BREAD (version for bakery) /CRISP (version for wardrobe with white enhancement).
Colour initial tolerance (MacAdam): SDCM 3.
Zhaga Book 3 compliant.

MECHANICAL

Wired unit in polycarbonate with busbar adaptor.
Single-piece in die-cast aluminium with passive dissipation with perimeter cooling slots on upper edge, giving a crown of light effect to the fitting.
Invisible lock for positioning the luminous flux.
Lens made from transparent methacrylate (PMMA) with glossy surface and differentiated photo-etched.
Positioning arm in galvanised brass with sphere to allow for vertical positioning at angles from 0° to 90° and horizontal positioning from 0° to 360°.

ELECTRICAL

In compliance with EN 60598-1.
Wiring unit separate from the body, invisible and integrated into the busbar.
Class II.

INSTALLATION

This product is suitable for installation on a 3-phase electrified busbar "Binario 3F" (on page 366).

APPLICATIONS

Environments: commercial, museums, shops.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

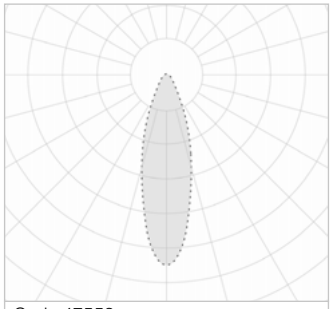
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours

3F Emilio Track Spot

650°C IP20 Classe II Driver/LED SELV





Code 47552

Spot lens.
Body and wired unit in polycarbonate with busbar adaptor.

ON/OFF electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	ø x L x H
○	47551	3F Emilio TK LED 3000/840	29	3067	4000	>80	130x230x105
○	47562	3F Emilio TK LED 2000/930	29	2462	3000	>90	130x230x105
○	47555	3F Emilio TK LED 3000/830	29	3106	3000	>80	130x230x105
○	47559	3F Emilio TK LED 3000/827	34	3142	2700	>80	130x230x105
○	47552	3F Emilio TK LED 4000/840	34	3961	4000	>80	130x230x105
○	47566	3F Emilio TK LED 4000/830	34	3807	3000	>80	130x230x105
○	47561	3F Emilio TK LED 3000/940	36	3137	4000	>90	130x230x105
○	47563	3F Emilio TK LED 3000/930	35	2868	3000	>90	130x230x105
●	47576	3F Emilio TK BK LED 3000/840	29	2822	4000	>80	130x230x105
●	47587	3F Emilio TK BK LED 2000/930	29	2266	3000	>90	130x230x105
●	47580	3F Emilio TK BK LED 3000/830	29	2858	3000	>80	130x230x105
●	47591	3F Emilio TK BK LED 4000/830	34	3502	3000	>80	130x230x105
●	47584	3F Emilio TK BK LED 3000/827	34	2891	2700	>80	130x230x105
●	47577	3F Emilio TK BK LED 4000/840	34	3644	4000	>80	130x230x105
●	47588	3F Emilio TK BK LED 3000/930	35	2639	3000	>90	130x230x105
●	47586	3F Emilio TK BK LED 3000/940	36	2887	4000	>90	130x230x105

DALI electronic wiring 230V-50/60Hz

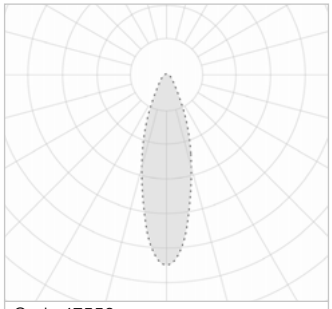
	Code	Item	W	lm	K	CRI	ø x L x H
○	47536	3F Emilio TK LED 2000/930 DALI	29	2462	3000	>90	130x260x105
○	47535	3F Emilio TK LED 3000/830 DALI	29	3106	3000	>80	130x260x105
○	47534	3F Emilio TK LED 3000/840 DALI	29	3067	4000	>80	130x260x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Emilio Track Spot Meat/Bread/Crisp

650°C IP20 Classe II Driver/LED SELV





Code 47556

Spot lens.
Meat - Specific source to light up meat and cold cuts.
Bread - Specific source to light up bread.
Crisp - specific source for illuminating textile products and enhancing white colours.
Body and wired unit in polycarbonate with busbar adaptor.

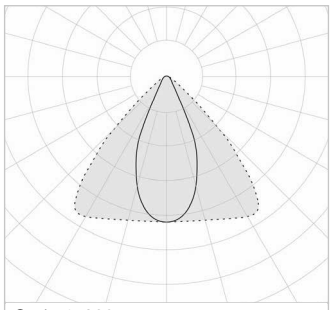
ON/OFF electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	ø x L x H
○	47556	3F Emilio TK LED 2000/MEAT	32	2147	3000	87	130x230x105
○	47574	3F Emilio TK LED 2500/CRISP	32	2433	3000	92	130x230x105
○	47572	3F Emilio TK LED 2000/BREAD	35	1982	2400	>90	130x230x105
●	47581	3F Emilio TK BK LED 2000/MEAT	32	1975	3000	87	130x230x105
●	47599	3F Emilio TK BK LED 2500/CRISP	33	2238	3000	92	130x230x105
●	47597	3F Emilio TK BK LED 2000/BREAD	35	1823	2400	>90	130x230x105

3F Emilio Track Elliptical

650°C IP20 Classe II Driver/LED SELV





Code 47608

Horizontal ELL elliptical lens provides extensive installation pitch.
Body and wired unit in white polycarbonate with busbar adaptor.

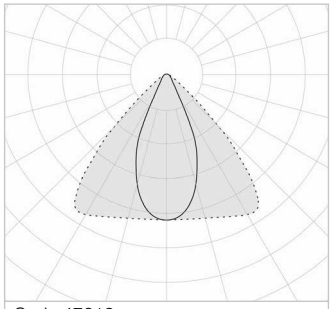
ON/OFF electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	ø x L x H
○	47607	3F Emilio TK LED 3000/840 ELL	29	3203	4000	>80	130x230x105
○	47618	3F Emilio TK LED 2000/930 ELL	29	2571	3000	>90	130x230x105
○	47611	3F Emilio TK LED 3000/830 ELL	29	3243	3000	>80	130x230x105
○	47615	3F Emilio TK LED 3000/827 ELL	34	3281	2700	>80	130x230x105
○	47608	3F Emilio TK LED 4000/840 ELL	34	4086	4000	>80	130x230x105
○	47622	3F Emilio TK LED 4000/830 ELL	34	3927	3000	>80	130x230x105
○	47617	3F Emilio TK LED 3000/940 ELL	36	3275	4000	>90	130x230x105
○	47619	3F Emilio TK LED 3000/930 ELL	35	2994	3000	>90	130x230x105

3F Emilio Track Elliptical Meat/Bread/Crisp

650°C IP20 Classe II Driver/LED SELV





Code 47612

Horizontal ELL elliptical lens provides extensive installation pitch.
Meat - Specific source to light up meat and cold cuts.
Bread - Specific source to light up bread.
Crisp - specific source for illuminating textile products and enhancing white colours.
Body and wired unit in white polycarbonate with busbar adaptor.

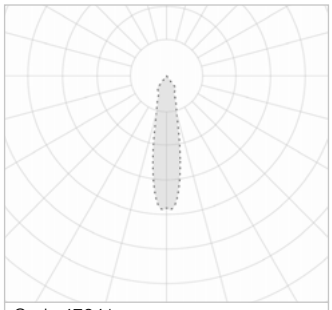
ON/OFF electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	ø x L x H
○	47612	3F Emilio TK LED 2000/MEAT ELL	32	2215	3000	87	130x230x105
○	47630	3F Emilio TK LED 2500/CRISP ELL	33	2509	3000	92	130x230x105
○	47628	3F Emilio TK LED 2000/BREAD ELL	35	1998	2400	>90	130x230x105

3F Emilio Track Iperconcentrated

850°C IP20 Classe II Driver/LED SELV





Code 47641

Bright anodised parabola in semi-specular, anti-reflective, anti-iridescent aluminium.
Body and wired unit in polycarbonate with busbar adaptor.

ON/OFF electronic wiring 230V-50/60Hz

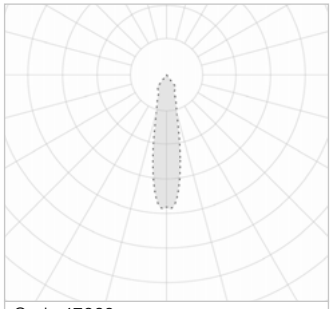
	Code	Item	W	lm	K	CRI	ø x L x H
○	47640	3F Emilio TK LED 3000/840 IPER	29	3137	4000	>80	130x230x105
○	47654	3F Emilio TK LED 2000/930 IPER	29	2518	3000	>90	130x230x105
○	47644	3F Emilio TK LED 3000/830 IPER	29	3176	3000	>80	130x230x105
○	47648	3F Emilio TK LED 3000/827 IPER	34	3213	2700	>80	130x230x105
○	47645	3F Emilio TK LED 4000/830 IPER	34	3794	3000	>80	130x230x105
○	47641	3F Emilio TK LED 4000/840 IPER	34	3948	4000	>80	130x230x105
○	47655	3F Emilio TK LED 3000/930 IPER	35	2933	3000	>90	130x230x105
○	47652	3F Emilio TK LED 3000/940 IPER	36	3208	4000	>90	130x230x105
●	47668	3F Emilio TK BK LED 3000/840 IPER	29	3137	4000	>80	130x230x105
●	47682	3F Emilio TK BK LED 2000/930 IPER	29	2518	3000	>90	130x230x105
●	47672	3F Emilio TK BK LED 3000/830 IPER	29	3176	3000	>80	130x230x105
●	47676	3F Emilio TK BK LED 3000/827 IPER	34	3213	2700	>80	130x230x105
●	47673	3F Emilio TK BK LED 4000/830 IPER	34	3794	3000	>80	130x230x105
●	47669	3F Emilio TK BK LED 4000/840 IPER	34	3948	4000	>80	130x230x105
●	47683	3F Emilio TK BK LED 3000/930 IPER	35	2933	3000	>90	130x230x105
●	47680	3F Emilio TK BK LED 3000/940 IPER	36	3208	4000	>90	130x230x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Emilio Track Iperconcentrated Meat/Bread/Crisp

850°C IP20 Classe II Driver/LED SELV





Code 47660

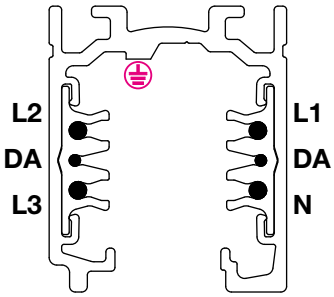
Bright anodised parabola in semi-specular, anti-reflective, anti-iridescent aluminium.
Meat - Specific source to light up meat and cold cuts.
Bread - Specific source to light up bread.
Crisp - specific source for illuminating textile products and enhancing white colours.
Body and wired unit in polycarbonate with busbar adaptor.

ON/OFF electronic wiring 230V-50/60Hz

	Code	Item	W	lm	K	CRI	ø x L x H
○	47657	3F Emilio TK LED 2000/MEAT IPER	32	2140	3000	87	130x230x105
○	47664	3F Emilio TK LED 2500/CRISP IPER	33	2425	3000	92	130x230x105
○	47660	3F Emilio TK LED 2000/BREAD IPER	35	1975	2400	>90	130x230x105
●	47685	3F Emilio TK BK LED 2000/MEAT IPER	32	2140	3000	87	130x230x105
●	47692	3F Emilio TK BK LED 2500/CRISP IPER	33	2425	3000	92	130x230x105
●	47688	3F Emilio TK BK LED 2000/BREAD IPER	35	1975	2400	>90	130x230x105

Binario 3F

Busbar

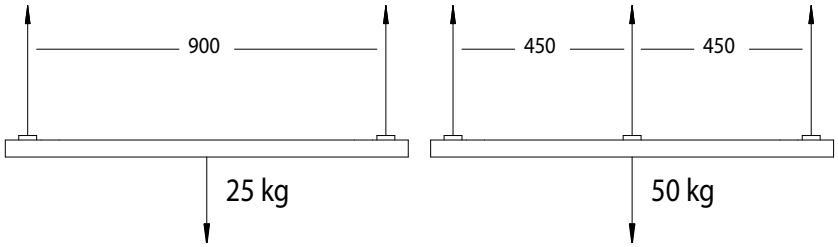


Scale: 1:1

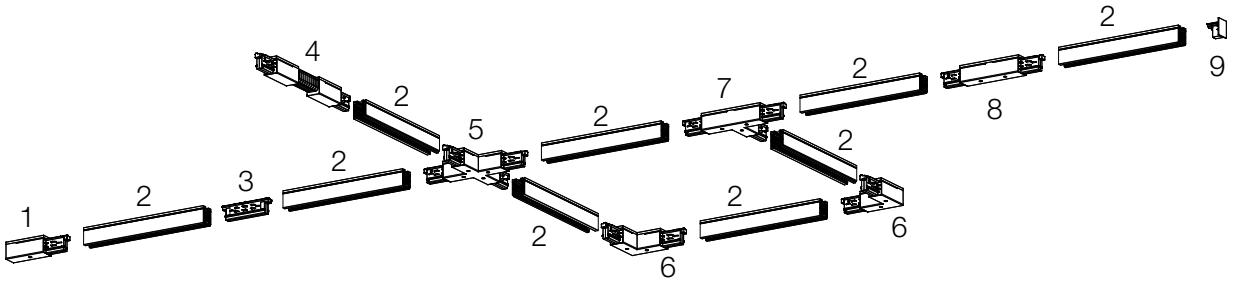
Characteristics

Binario 3F is an extruded aluminium busbar housing 6 conductors (4 for three-phase mode, 2 for DALI mode): the 3 phase conductors (with common neutral) form 3 distinct circuits, allowing 3 separate on commands.
The conductors are enclosed in rigid extruded profiles made from high-rigidity insulating material.

The versatility of this product allows the creation of ceiling-mount or suspended installations (within the maximum suspendable load limit).
EN 60570 compliant.



Structural elements

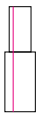


1 - Power-supply cap
2 - Binario 3F busbar
3 - Linear connecting element
4 - Flexible connecting element
5 - Cross connector
6 - L connector
7 - T connector
8 - Central power supply
9 - Closing cap

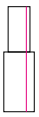
Defining the earth conductor position

Note: the side positioning of the earth contact makes the busbar structure asymmetrical and the connectors must be chosen on the basis of this. In particular, this indication applies only to the following components:

Power-supply cap

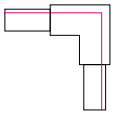


In the S (LH) version, the conductor is located on the left when looking at the composition from above.

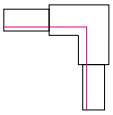


In the D (RH) version, the conductor is located on the right when looking at the composition from above.

L connector

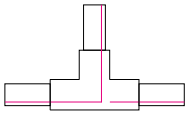


In the EXT version, the conductor is located on the outside when looking at the composition from above.

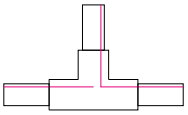


In the INT version, the conductor is located on the inside when looking at the composition from above.

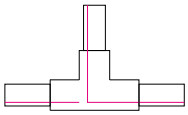
T connector



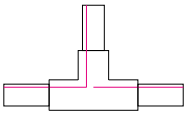
In the EXT + D (external + RHS) version, the third conductor is located on the right when looking at the composition from above.



In the INT + D (internal + RHS) version, the third conductor is located on the right when looking at the composition from above.

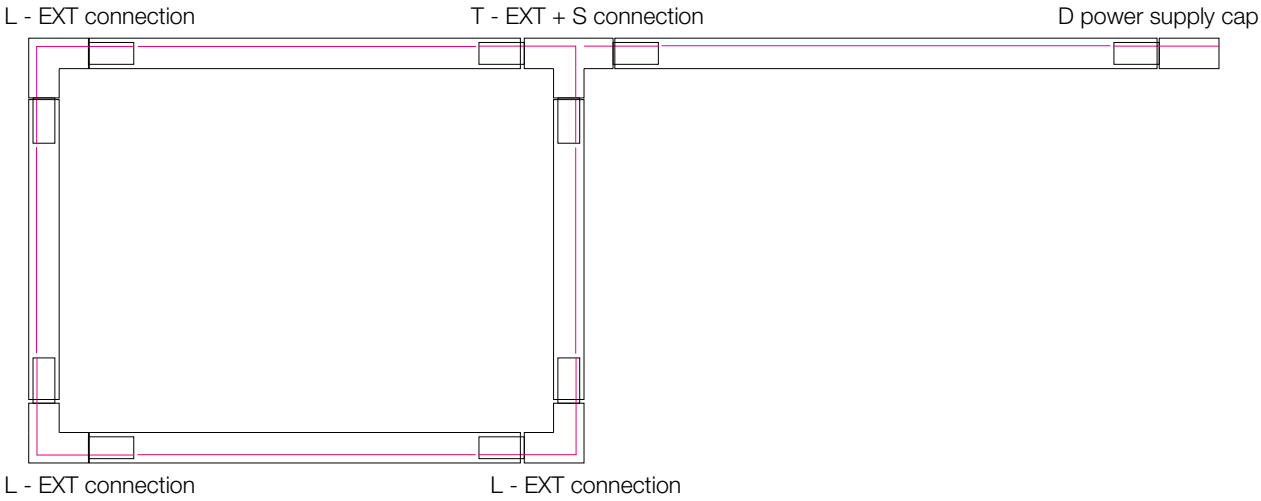


In the EXT + S (external + LHS) version, the third conductor is located on the left when looking at the composition from above.



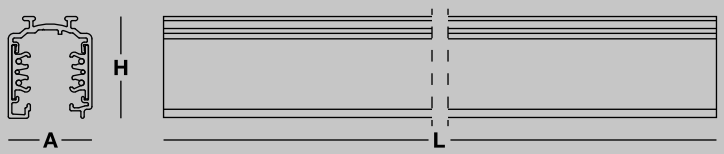
In the INT + S (internal + LHS) version, the third conductor is located on the left when looking at the composition from above.

Structure composition example - top-down view



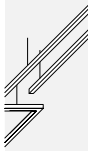


RSA "Beata Vergine Delle Grazie"
Bologna
Italia/Italy





Binario 3F



The Binario 3F is a mixed 3-phase system with two extra conductors for the management of any signal (eg DALI).
The system is certified according to EN 60570 and its installation must be performed by qualified personnel.
Three types of fixing:

- directly on the surface (using the holes already provided in binary)
- surface mounted using the metal clip
- suspended by tension steel cables and various clamps and brackets without exceeding the maximum loads are planned

MECHANICAL

Electrified track made from extruded aluminium, Eurostandard Plus compliant.
The wires are enclosed in rigid extruded profiles made of PVC insulating material with high dielectric strength.
Length: 1000-2000-3000-4000 mm.

(L1/L2/L3/N/GRD/DA/DA) 16A/440V 2x1A/50V FELV AC (DALI).
Copper conductors.

ON REQUEST

- versions compliant with EN 60598-2-22 for luminaires with central emergency power supply system (CPSS) or with on-board battery

Binario 3F

IP20



Aluminium extruded track with 6 copper conductors (L1/L2/L3/N/GRD/DA/DA) 16A/440V.

	Code	Item	L x A x H
○	A4070	Binario 3F A - L1000 - WH	1000x31x38
○	A4071	Binario 3F A - L2000 - WH	2000x31x38
○	A4072	Binario 3F A - L3000 - WH	3000x31x38
○	A4073	Binario 3F A - L4000 - WH	4000x31x38
○	A4076	Binario 3F A - L1000 - GR	1000x31x38
○	A4077	Binario 3F A - L2000 - GR	2000x31x38
○	A4078	Binario 3F A - L3000 - GR	3000x31x38
○	A4079	Binario 3F A - L4000 - GR	4000x31x38
●	A4064	Binario 3F A - L1000 - BK	1000x31x38
●	A4065	Binario 3F A - L2000 - BK	2000x31x38
●	A4066	Binario 3F A - L3000 - BK	3000x31x38
●	A4067	Binario 3F A - L4000 - BK	4000x31x38

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Binario 3F | Accessories



960°C

Code	Item
A4174	Power-supply head DX - WH
A4166	Power-supply head DX - GR
A4209	Power-supply head DX - BK
A4196	Power-supply head SX - WH
A4190	Power-supply head SX - GR
A4218	Power-supply head SX - BK

Power connection: polycarbonate body and copper alloy contacts. Warning: as the track structure is asymmetrical because of the grounding element placed laterally, feeding heads and connecting joints must be chosen accordingly.



960°C

Code	Item
A4226 UPDATE	Middle feed - WH
A4227 UPDATE	Middle feed - BK

Intermediate feed joint with polycarbonate body and copper alloy contacts.



960°C

Code	Item
A4180	End cap - WH
A4172	End cap - GR
A4215	End cap - BK

Polycarbonate closing cap with locking screw.



960°C

Code	Item
A4188	Linear connecting element - WH
A4182	Linear connecting element - GR
A4217	Linear connecting element - BK

Linear connecting element with a polycarbonate body and copper alloy contacts.



960°C

Code	Item
A4176	Flexible connecting element - WH
A4168	Flexible connecting element - GR
A4211	Flexible connecting element - BK

Flexible connecting element with polycarbonate body and copper alloy contacts.



960°C

Code	Item
A4177	L-joint - EXT - WH
A4169	L-joint - EXT - GR
A4212	L-joint - EXT - BK
A4197	L-joint - INT - WH
A4191	L-joint - INT - GR
A4219	L-joint - INT - BK

"L"-shaped connecting element with polycarbonate body and copper alloy contacts. Warning: as the track structure is asymmetrical because of the grounding element placed laterally, feeding heads and connecting joints must be chosen accordingly.



960°C

Code	Item
A4198	T-joint - EXT + DX - WH
A4178	T-joint - EXT + SX - WH
A4192	T-joint - EXT + DX - GR
A4170	T-joint - EXT + SX - GR
A4220	T-joint - EXT + DX - BK
A4213	T-joint - EXT + SX - BK
A4200	T-joint - INT + DX - WH
A4199	T-joint - INT + SX - WH
A4194	T-joint - INT + DX - GR
A4193	T-joint - INT + SX - GR
A4222	T-joint - INT + DX - BK
A4221	T-joint - INT + SX - BK

"T"-shaped connecting element with polycarbonate body and copper alloy contacts. Warning: as the track structure is asymmetrical because of the grounding element placed laterally, feeding heads and connecting joints must be chosen accordingly.



960°C

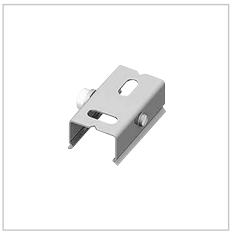
Code	Item
A4179	Cross joint - WH
A4171	Cross joint - GR
A4214	Cross joint - BK

Cross-shaped connecting element with polycarbonate body and copper alloy contacts.



Code	Item
A4181	PVC closing top - L1000 - WH
A4173	PVC closing top - L1000 - GR
A4216	PVC closing top - L1000 - BK

PVC cover for track closing.



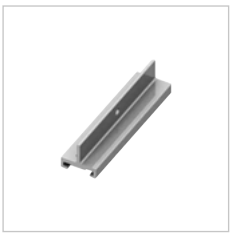
Code	Item
A4183	Steel bracket for ceiling installation

Sliding ceiling bracket with locking screw in galvanised steel.



Code	Item
A4204	Adj. susp. boss + 1.5m bracket
A4205	Adj. susp. boss + 3m bracket
A4206	Adj. susp. boss + 5m bracket

Adjustable suspension kit with galvanised steel sliding bracket and locking screw, metal rose and steel cable with diameter of 1.5 mm.



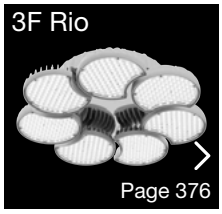
Code	Item
A4225	Rigid support bracket

Rigid support bracket.

/ catalogue

_Waterproof and corrosion-proof

/ 3F Filippi



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High Output
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3F Rio
High Output
Wireless
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3F Rio
High Temperature
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High Efficiency
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3F Rover
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ATEX
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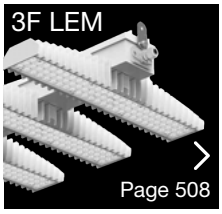
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Beta i3F
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3F Cub
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Retrofit
Beta A3F-i3F
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Retrofit
Beta 430
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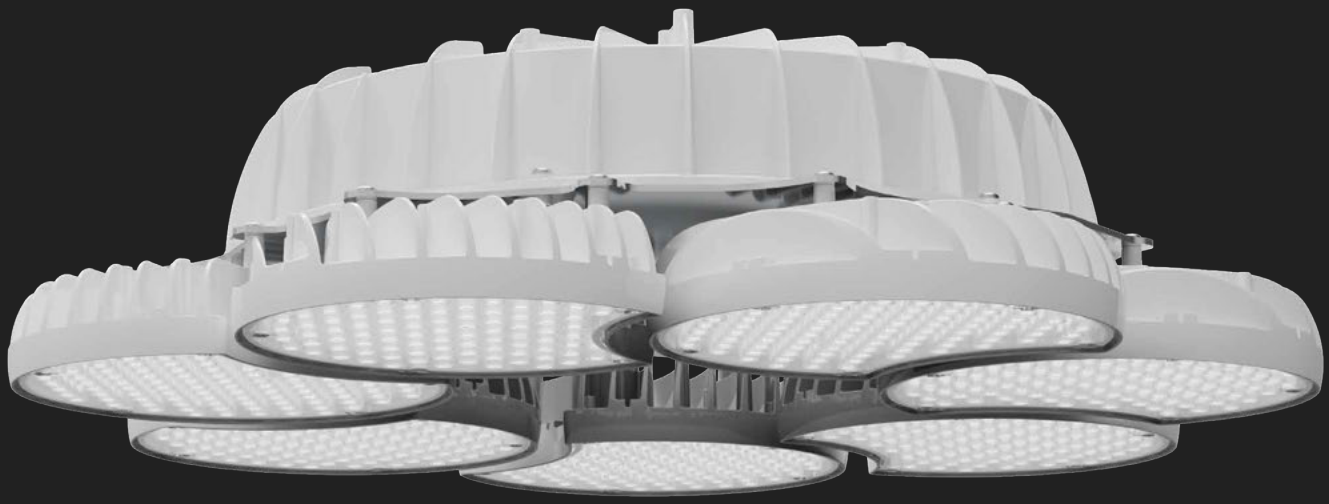
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Retrofit
3F Cub IP64
Page 596



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Retrofit
3F Linda
Page 600



/ 3F Rio

Innovation is synonymous with flexibility: **3F Rio** represents the new frontier for industrial applications, harnessing its innovatively designed luminaires to tailor lighting to different usage needs.

_Efficiency up to 200 lm/W.
_Fluxes up to 60,000lm.
_Pitches up to 1.50 x hu.
_UGR <22.
_Wide, Medium and Narrow distributions.
_Ta HO 45° - HT 70°C.
_From 2 to 8 modules.
_Service life (L80/B10): 100.000 h.
_Standard, Sensor and HT versions.
_ON/OFF and DALI-2 DATA.
_IoT ready.
_Single fixing point.
_Quick connection.
_Patented design.

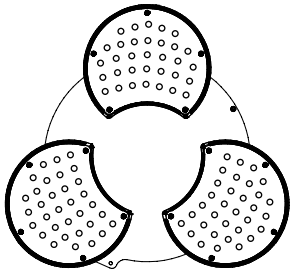
Modularity:
the core essence of Rio.

What makes 3F Rio so unique is its extraordinary modularity, allowing reduced glare and shadowing on the work surface.

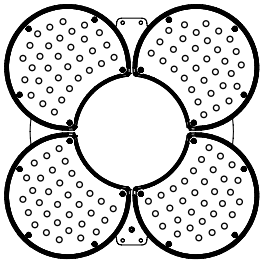
The die-cast aluminium heat sinks in a characteristic half-moon shape can be arranged in either a circular (C) or linear (L) configuration, thus offering a broad range of combinations.

For the Circular (C) version, assembly options range from 3 to 8 modules,while for the Linear (L) version, the range spans from 2 to 4 modules, across all product families: Standard, Sensor and High Temperature (HT).

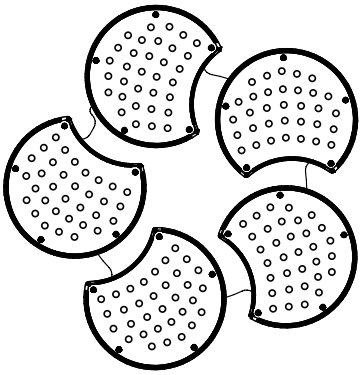
3F Rio **3C**
21.000 lm



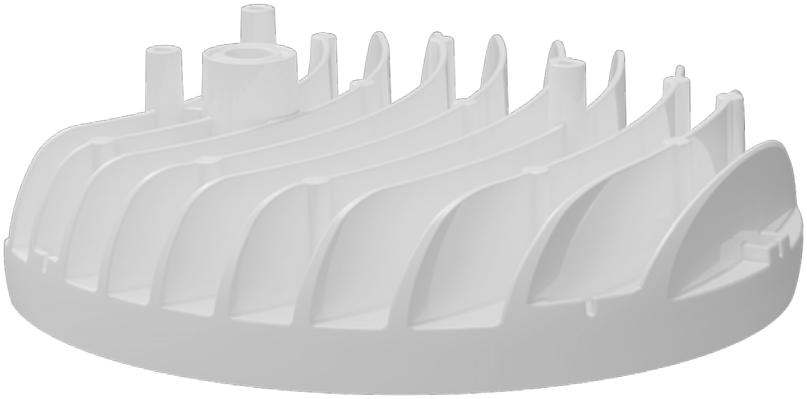
3F Rio **4C**
28.000 lm



3F Rio **5C**
35.000 lm

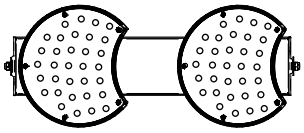


205

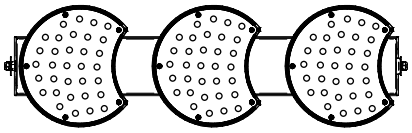


Scale 1:2
mm

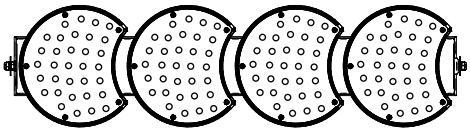
3F Rio **2L**
14.000 lm



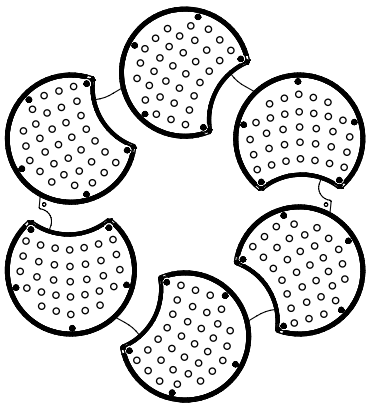
3F Rio **3L**
21.000 lm



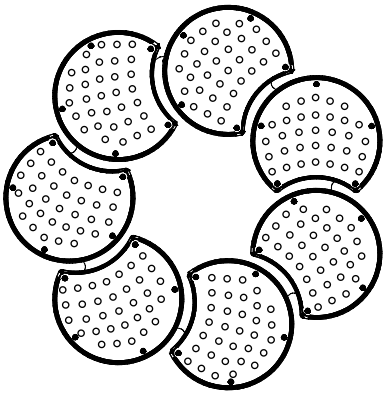
3F Rio **4L**
28.000 lm



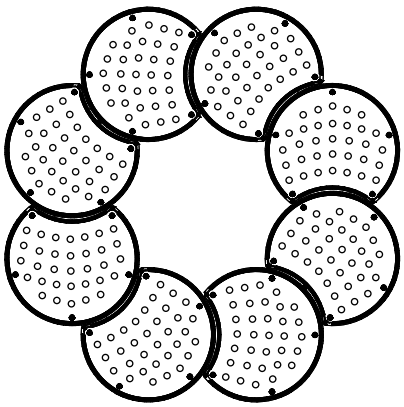
3F Rio **6C**
45.000 lm



3F Rio **7C**
53.000 lm



3F Rio **8C**
60.000 lm



Stainless steel plate
Stainless steel plate for securely fixing the modules and separating the electronics.



Unprecedented **performance**.

3F Rio is an industrial-grade product that stands out for its exceptional capacity for heat dissipation.

This performance is achieved through the special shape of the heat sink modules, specially designed to maximise airflow, inspired by techniques used in the aviation industry.

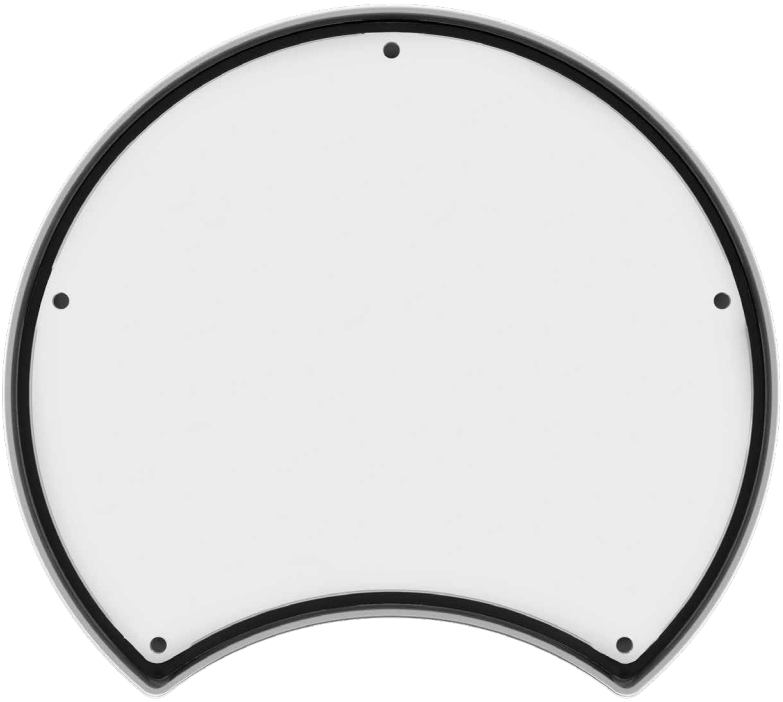
Specifically, the configuration of the upper fins produces a Venturi effect, providing effective thermal insulation for the electronic components, thus ensuring the fixture's L80/B10 certified lifespan of up to 100,000 hours, even at temperatures up to 70°C (in HT versions).

The design of 3F Rio is engineered with installer convenience in mind. Its single, squared-off fixing point prevents any possible misalignment of the fixture, while the quick connection using the Techno connector, located on the top of the body, ensures fast and easy suspension/under-bar installation.

Custom lenticular optics
Available with controlled Wide, Medium or Narrow emission (UGR < 22).

Heat sink modules
3F Rio's modules are engineered to optimise heat dissipation, facilitating superior air flow and enhancing overall product performance.


close-up of
suspension hook



Scale 1:2
mm

Custom light distribution.

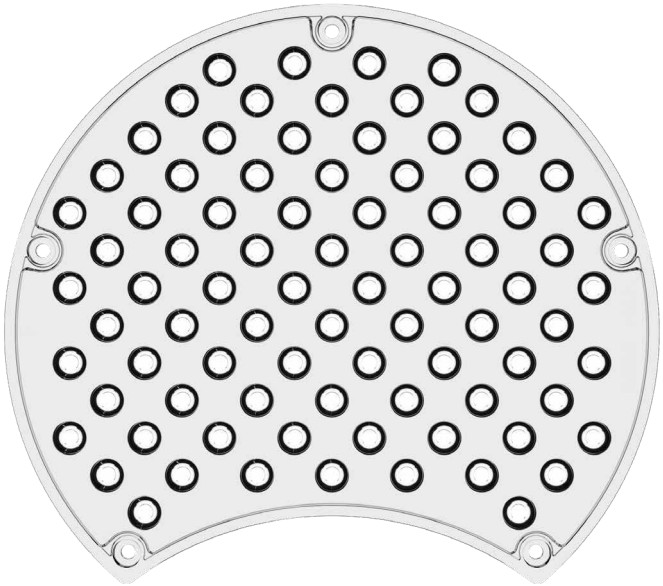
To ensure a product's optimal lighting performance, it is crucial to develop tailored, specialised solutions according to specific application requirements.

That's why our design team has developed various lens types, each designed to offer three district types of light distribution: Wide, Medium and Narrow (elliptical).

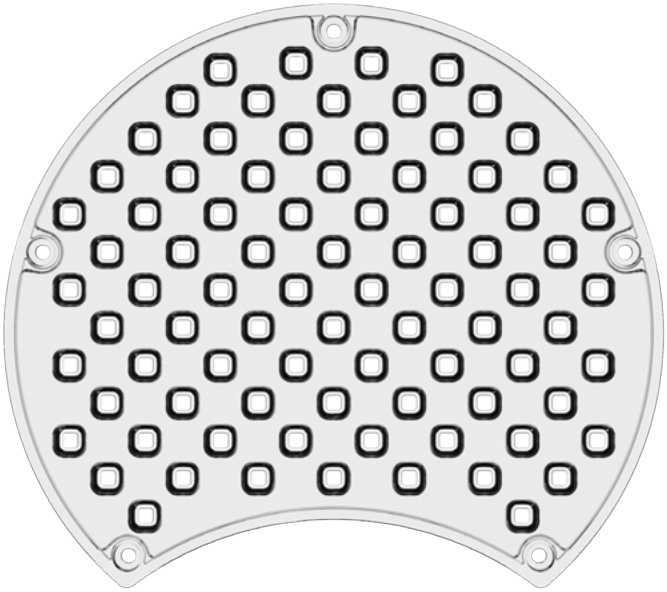
These distributions are available in both Circular (C) and Linear (L) versions and can be combined to create fully customised lighting solutions.

Through the integration of these optics, heat sink modules and high-performance light sources, our product achieves an efficiency of up to 200 lm/W, delivering luminous fluxes of up to 60,000lm, all while ensuring minimal glare with UGR < 22.

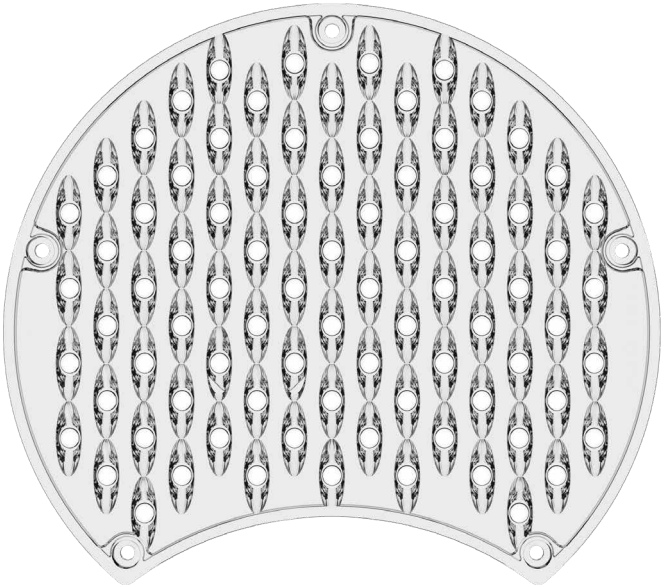
Wide

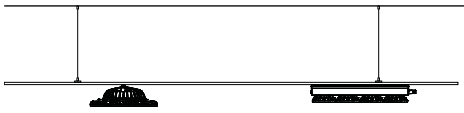


Medium

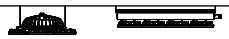


Narrow

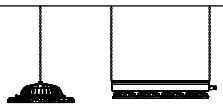




Bus bar



Ceiling



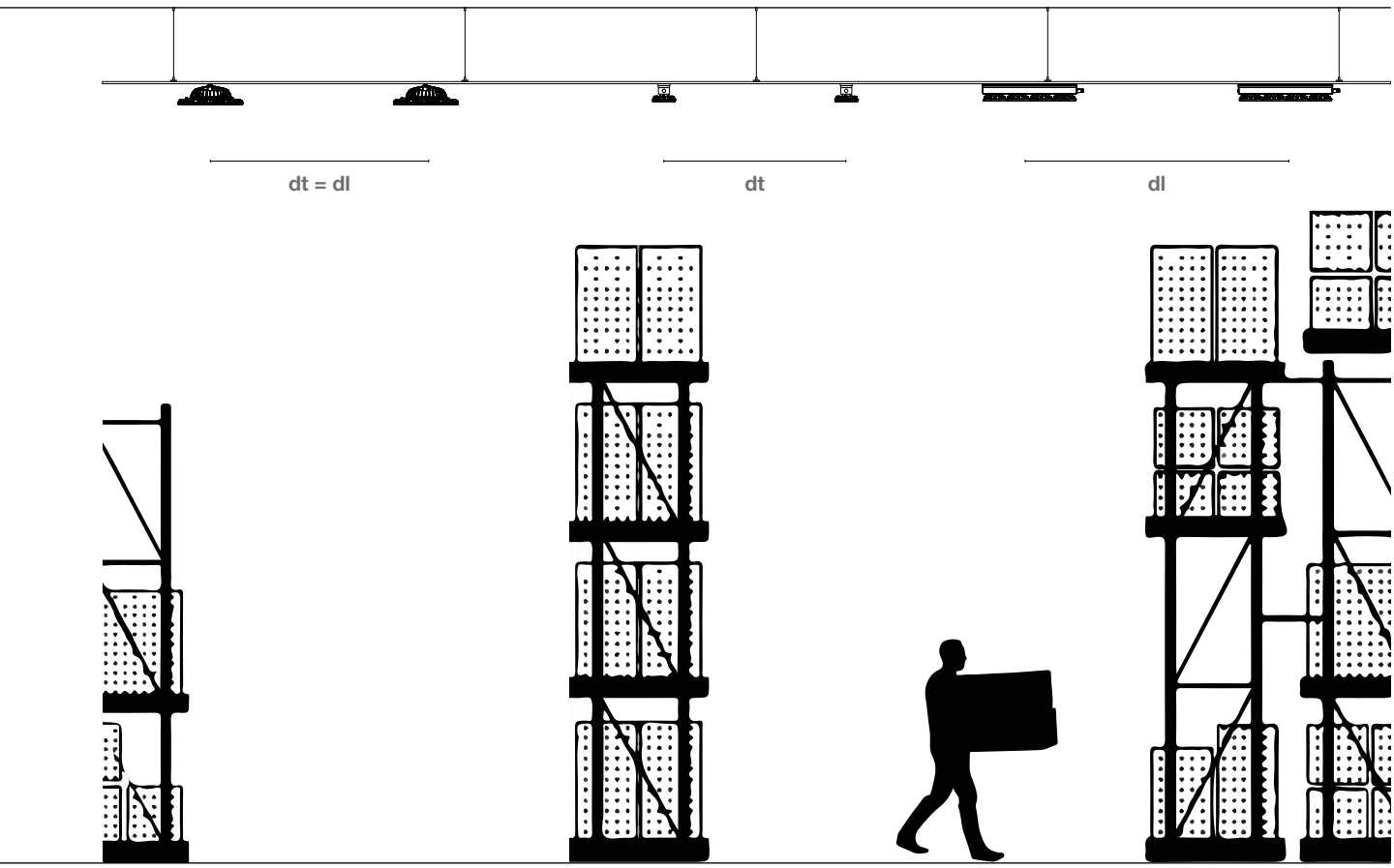
Suspended



Range

3F Rio

	W	lm	LED	Wiring	Modules	Dt x Dl	ø x H
3F Rio HO C Wide	128 - 340	22493 - 60767	/840 /865	ON/OFF D2D	3C/4C/5C 6C/7C/8C	1,60 x 1,60	462/508/530 x 175 626/610/645 x 175
3F Rio HO C Medium	128 - 340	22017 - 59481	/840 /865	ON/OFF D2D	3C/4C/5C 6C/7C/8C	1,40 x 1,40	462/508/530 x 175 626/610/645 x 175
3F Rio HO C Concentrated	128 - 340	21541 - 58195	/840 /865	ON/OFF D2D	3C/4C/5C 6C/7C/8C	1,15 x 1,15	462/508/530 x 175 626/610/645 x 175
3F Rio HO C Wireless Wide	128 - 340	22493 - 60767	/840 /865	D2D	3C/4C/5C 6C/7C/8C	1,60 x 1,60	462/508/530 x 175 626/610/645 x 175
3F Rio HO C Wireless Medium	128 - 340	22017 - 59481	/840 /865	D2D	3C/4C/5C 6C/7C/8C	1,40 x 1,40	462/508/530 x 175 626/610/645 x 175
3F Rio HO C Wireless Concentrated	128 - 340	21541 - 58195	/840 /865	D2D	3C/4C/5C 6C/7C/8C	1,15 x 1,15	462/508/530 x 175 626/610/645 x 175
3F Rio HT C Wide	63 - 119	11000 - 21000	/840	ON/OFF	3C 6C	1,60 x 1,60	462x 175 626 x 175
3F Rio HT C Medium	63 - 119	11000 - 21000	/840	ON/OFF	3C 6C	1,40 x 1,40	462x 175 626 x 175
3F Rio HE C Wide	116 - 172	22030 - 33045	/840	ON/OFF D2D	4C/5C/6C	1,60 x 1,60	508/530/626 x 175



Range

3F Rio

	W	lm	LED	Wiring	Modules	Dt x Dl	L x B x H
3F Rio HO L Wide	85 - 168	14995 - 30384	/840 /865	ON/OFF D2D	2L 3L 4L	1,60 x 1,60	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145
3F Rio HO L Medium	85 - 168	14678 - 29741	/840 /865	ON/OFF D2D	2L 3L 4L	1,35 x 1,35	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145
3F Rio HO L Concentrated	85 - 168	14361 - 29098	/840 /865	ON/OFF D2D	2L 3L 4L	0,90 x 1,40	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145
3F Rio HO L Wireless Wide	85 - 168	14995 - 30348	/840 /865	D2D	2L 3L 4L	1,60 x 1,60	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145
3F Rio HO L Wireless Medium	85 - 168	14678 - 29741	/840 /865	D2D	2L 3L 4L	1,35 x 1,35	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145
3F Rio HO L Wireless Concentrated	85 - 168	14995 - 30348	/840 /865	D2D	2L 3L 4L	0,90 x 1,40	469 x 208 x 145 656 x 208 x 145 756 x 208 x 145

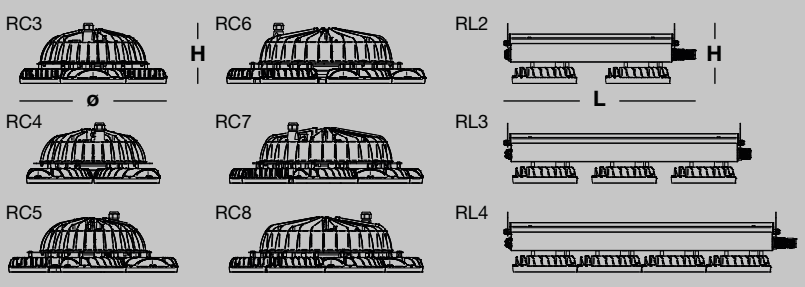
NEW

/ Waterproof and corrosion-proof











3F Rio High Output

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Modular structure depending on the number of heat sinks used for circular (C) or linear (L) versions.
Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.

Circular versions
Heavy-gauge stainless steel plate for maximum strength and a circular wiring compartment consisting of a die-cast, in white painted aluminium monoblock with a fixed central ring with luminaire alignment function.

Linear versions
Aluminium and galvanised steel housing painted white, to which the modular heat sinks are attached.

3F Lens lenses in transparent methacrylate (PMMA) with external flat surface, with high luminous efficiency.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Galvanised steel safety cable ø 2 mm and clamps, supplied.
Galvanised steel carabiner for central fixing with chain, supplied.

ELECTRICAL

In compliance with EN 60598-1.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling mounted or suspension installation via accessory.

APPLICATIONS

Ambient temperature from -30°C to +45°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

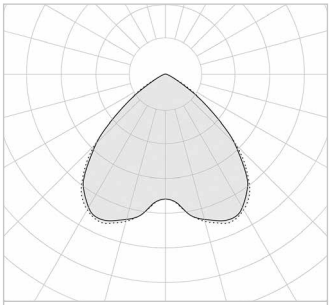
ON REQUEST

- different linear compositions
- different power levels, colour rendering indices and colour temperatures
- versions for sports applications (resistance against ball impacts)
- polycarbonate lenses (IK08)
- housing in different RAL colours
- double switch-on for ON/OFF versions
- wiring: CLO (page 662)
- dual-input power line
- emergency versions

3F Rio HO C Wide

650°C | IP66 | 1J | IK06





Code 50011

Circular version.
Wide rotosymmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50011 NEW	3F Rio HO 3C 23000/840 WIDE	123	22908	4000	>80	462x175
50013 NEW	3F Rio HO 4C 31000/840 WIDE	165	30544	4000	>80	508x175
50015 NEW	3F Rio HO 5C 38000/840 WIDE	206	38181	4000	>80	530x175
50016 NEW	3F Rio HO 6C 46000/840 WIDE	243	45817	4000	>80	626x175
50017 NEW	3F Rio HO 7C 53000/840 WIDE	284	53453	4000	>80	610x175
50018 NEW	3F Rio HO 8C 61000/840 WIDE	334	61089	4000	>80	645x175
50020 NEW	3F Rio HO 3C 23000/865 WIDE	123	22612	6500	>80	462x175
50022 NEW	3F Rio HO 4C 31000/865 WIDE	165	30149	6500	>80	508x175
50024 NEW	3F Rio HO 5C 38000/865 WIDE	206	37687	6500	>80	530x175
50025 NEW	3F Rio HO 6C 46000/865 WIDE	243	45224	6500	>80	626x175
50026 NEW	3F Rio HO 7C 53000/865 WIDE	284	52761	6500	>80	610x175
50027 NEW	3F Rio HO 8C 61000/865 WIDE	334	60298	6500	>80	645x175

DALI electronic wiring 230V-50/60Hz

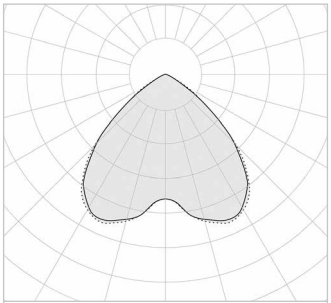
Code	Item	W	lm	K	CRI	ø x H
50029 NEW	3F Rio HO 3C 23000/840 D2D WIDE	123	22908	4000	>80	462x175
50031 NEW	3F Rio HO 4C 31000/840 D2D WIDE	165	30544	4000	>80	508x175
50033 NEW	3F Rio HO 5C 38000/840 D2D WIDE	206	38181	4000	>80	530x175
50034 NEW	3F Rio HO 6C 46000/840 D2D WIDE	243	45817	4000	>80	626x175
50035 NEW	3F Rio HO 7C 53000/840 D2D WIDE	284	53453	4000	>80	610x175
50036 NEW	3F Rio HO 8C 61000/840 D2D WIDE	334	61089	4000	>80	645x175
50038 NEW	3F Rio HO 3C 23000/865 D2D WIDE	123	22612	6500	>80	462x175
50040 NEW	3F Rio HO 4C 31000/865 D2D WIDE	165	30149	6500	>80	508x175
50042 NEW	3F Rio HO 5C 38000/865 D2D WIDE	206	37687	6500	>80	530x175
50043 NEW	3F Rio HO 6C 46000/865 D2D WIDE	243	45224	6500	>80	626x175
50044 NEW	3F Rio HO 7C 53000/865 D2D WIDE	284	52761	6500	>80	610x175
50045 NEW	3F Rio HO 8C 61000/865 D2D WIDE	334	60298	6500	>80	645x175

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rio HO L Wide

650°C | IP66 | 1J | IK06





Code 50010

Linear version.
Wide distribution with rectangular shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50010 NEW	3F Rio HO 2L 15000/840 WIDE	84	15272	4000	>80	469x208x145
50012 NEW	3F Rio HO 3L 23000/840 WIDE	123	22908	4000	>80	656x208x145
50014 NEW	3F Rio HO 4L 31000/840 WIDE	165	30544	4000	>80	756x208x145
50019 NEW	3F Rio HO 2L 15000/865 WIDE	84	15075	6500	>80	469x208x145
50021 NEW	3F Rio HO 3L 23000/865 WIDE	123	22612	6500	>80	656x208x145
50023 NEW	3F Rio HO 4L 31000/865 WIDE	165	30149	6500	>80	756x208x145

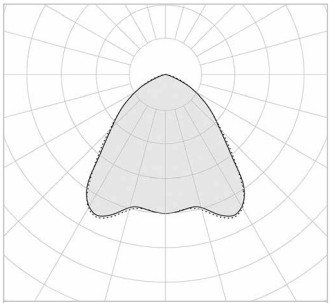
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50028 NEW	3F Rio HO 2L 15000/840 D2D WIDE	84	15272	4000	>80	469x208x145
50030 NEW	3F Rio HO 3L 23000/840 D2D WIDE	123	22908	4000	>80	656x208x145
50032 NEW	3F Rio HO 4L 31000/840 D2D WIDE	165	30544	4000	>80	756x208x145
50037 NEW	3F Rio HO 2L 15000/865 D2D WIDE	84	15075	6500	>80	469x208x145
50039 NEW	3F Rio HO 3L 23000/865 D2D WIDE	123	22612	6500	>80	656x208x145
50041 NEW	3F Rio HO 4L 31000/865 D2D WIDE	165	30149	6500	>80	756x208x145

3F Rio HO C Medium

650°C | IP66 | 1J | IK06





Code 50047

Circular version.
Medium rotosymmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50047 NEW	3F Rio HO 3C 23000/840 MEDIUM	123	22908	4000	>80	462x175
50049 NEW	3F Rio HO 4C 31000/840 MEDIUM	165	30544	4000	>80	508x175
50051 NEW	3F Rio HO 5C 38000/840 MEDIUM	206	38181	4000	>80	530x175
50052 NEW	3F Rio HO 6C 46000/840 MEDIUM	243	45817	4000	>80	626x175
50053 NEW	3F Rio HO 7C 53000/840 MEDIUM	284	53453	4000	>80	610x175
50054 NEW	3F Rio HO 8C 61000/840 MEDIUM	334	61089	4000	>80	645x175
50056 NEW	3F Rio HO 3C 23000/865 MEDIUM	123	22612	6500	>80	462x175
50058 NEW	3F Rio HO 4C 31000/865 MEDIUM	165	30149	6500	>80	508x175
50060 NEW	3F Rio HO 5C 38000/865 MEDIUM	206	37687	6500	>80	530x175
50061 NEW	3F Rio HO 6C 46000/865 MEDIUM	243	45224	6500	>80	626x175
50062 NEW	3F Rio HO 7C 53000/865 MEDIUM	284	52761	6500	>80	610x175
50063 NEW	3F Rio HO 8C 61000/865 MEDIUM	334	60298	6500	>80	645x175

DALI electronic wiring 230V-50/60Hz

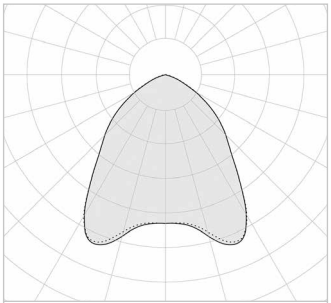
Code	Item	W	lm	K	CRI	ø x H
50065 NEW	3F Rio HO 3C 23000/840 D2D MEDIUM	123	22908	4000	>80	462x175
50067 NEW	3F Rio HO 4C 31000/840 D2D MEDIUM	165	30544	4000	>80	508x175
50069 NEW	3F Rio HO 5C 38000/840 D2D MEDIUM	206	38181	4000	>80	530x175
50070 NEW	3F Rio HO 6C 46000/840 D2D MEDIUM	243	45817	4000	>80	626x175
50071 NEW	3F Rio HO 7C 53000/840 D2D MEDIUM	284	53453	4000	>80	610x175
50072 NEW	3F Rio HO 8C 61000/840 D2D MEDIUM	334	61089	4000	>80	645x175
50074 NEW	3F Rio HO 3C 23000/865 D2D MEDIUM	123	22612	6500	>80	462x175
50076 NEW	3F Rio HO 4C 31000/865 D2D MEDIUM	165	30149	6500	>80	508x175
50078 NEW	3F Rio HO 5C 38000/865 D2D MEDIUM	206	37687	6500	>80	530x175
50079 NEW	3F Rio HO 6C 46000/865 D2D MEDIUM	243	45224	6500	>80	626x175
50080 NEW	3F Rio HO 7C 53000/865 D2D MEDIUM	284	52761	6500	>80	610x175
50081 NEW	3F Rio HO 8C 61000/865 D2D MEDIUM	334	60298	6500	>80	645x175

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rio HO L Medium

650°C | IP66 | 1J | IK06





Code 50046

Linear version.
Medium distribution with square shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50046 NEW	3F Rio HO 2L 15000/840 MEDIUM	84	15272	4000	>80	469x208x145
50048 NEW	3F Rio HO 3L 23000/840 MEDIUM	123	22908	4000	>80	656x208x145
50050 NEW	3F Rio HO 4L 31000/840 MEDIUM	165	30544	4000	>80	756x208x145
50055 NEW	3F Rio HO 2L 15000/865 MEDIUM	84	15075	6500	>80	469x208x145
50057 NEW	3F Rio HO 3L 23000/865 MEDIUM	123	22612	6500	>80	656x208x145
50059 NEW	3F Rio HO 4L 31000/865 MEDIUM	165	30149	6500	>80	756x208x145

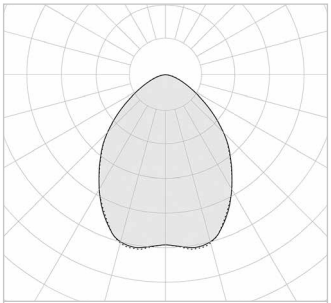
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50064 NEW	3F Rio HO 2L 15000/840 D2D MEDIUM	84	15272	4000	>80	469x208x145
50066 NEW	3F Rio HO 3L 23000/840 D2D MEDIUM	123	22908	4000	>80	656x208x145
50068 NEW	3F Rio HO 4L 31000/840 D2D MEDIUM	165	30544	4000	>80	756x208x145
50073 NEW	3F Rio HO 2L 15000/865 D2D MEDIUM	84	15075	6500	>80	469x208x145
50075 NEW	3F Rio HO 3L 23000/865 D2D MEDIUM	123	22612	6500	>80	656x208x145
50077 NEW	3F Rio HO 4L 31000/865 D2D MEDIUM	165	30149	6500	>80	756x208x145

3F Rio HO C Concentrated

650°C | IP66 | 1J | IK06





Code 50083

Circular version.
Concentrated rotosymmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50083 NEW	3F Rio HO 3C 23000/840 CONC	123	21678	4000	>80	462x175
50085 NEW	3F Rio HO 4C 31000/840 CONC	165	28905	4000	>80	508x175
50087 NEW	3F Rio HO 5C 38000/840 CONC	206	36131	4000	>80	530x175
50088 NEW	3F Rio HO 6C 46000/840 CONC	243	43357	4000	>80	626x175
50089 NEW	3F Rio HO 7C 53000/840 CONC	284	50583	4000	>80	610x175
50090 NEW	3F Rio HO 8C 61000/840 CONC	334	57809	4000	>80	645x175
50092 NEW	3F Rio HO 3C 23000/865 CONC	123	21398	6500	>80	462x175
50094 NEW	3F Rio HO 4C 31000/865 CONC	165	28531	6500	>80	508x175
50096 NEW	3F Rio HO 5C 38000/865 CONC	206	35663	6500	>80	530x175
50097 NEW	3F Rio HO 6C 46000/865 CONC	243	42796	6500	>80	626x175
50098 NEW	3F Rio HO 7C 53000/865 CONC	284	49929	6500	>80	610x175
50099 NEW	3F Rio HO 8C 61000/865 CONC	334	57061	6500	>80	645x175

DALI electronic wiring 230V-50/60Hz

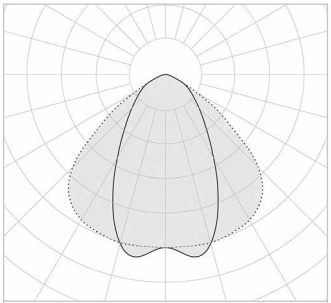
Code	Item	W	lm	K	CRI	ø x H
50101 NEW	3F Rio HO 3C 23000/840 D2D CONC	123	21678	4000	>80	462x175
50103 NEW	3F Rio HO 4C 31000/840 D2D CONC	165	28905	4000	>80	508x175
50105 NEW	3F Rio HO 5C 38000/840 D2D CONC	206	36131	4000	>80	530x175
50106 NEW	3F Rio HO 6C 46000/840 D2D CONC	243	43357	4000	>80	626x175
50107 NEW	3F Rio HO 7C 53000/840 D2D CONC	284	50583	4000	>80	610x175
50108 NEW	3F Rio HO 8C 61000/840 D2D CONC	334	57809	4000	>80	645x175
50110 NEW	3F Rio HO 3C 23000/865 D2D CONC	123	21398	6500	>80	462x175
50112 NEW	3F Rio HO 4C 31000/865 D2D CONC	165	28531	6500	>80	508x175
50114 NEW	3F Rio HO 5C 38000/865 D2D CONC	206	35663	6500	>80	530x175
50115 NEW	3F Rio HO 6C 46000/865 D2D CONC	243	42796	6500	>80	626x175
50116 NEW	3F Rio HO 7C 53000/865 D2D CONC	284	49929	6500	>80	610x175
50117 NEW	3F Rio HO 8C 61000/865 D2D CONC	334	57061	6500	>80	645x175

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rio HO L Concentrated

650°C | IP66 | 1J | IK06





Code 50082

Linear version.
Concentrated elliptical distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50082 NEW	3F Rio HO 2L 15000/840 CONC	84	14452	4000	>80	469x208x145
50084 NEW	3F Rio HO 3L 23000/840 CONC	123	21678	4000	>80	656x208x145
50086 NEW	3F Rio HO 4L 31000/840 CONC	165	28905	4000	>80	756x208x145
50091 NEW	3F Rio HO 2L 15000/865 CONC	84	14265	6500	>80	469x208x145
50093 NEW	3F Rio HO 3L 23000/865 CONC	123	21398	6500	>80	656x208x145
50095 NEW	3F Rio HO 4L 31000/865 CONC	165	28531	6500	>80	756x208x145

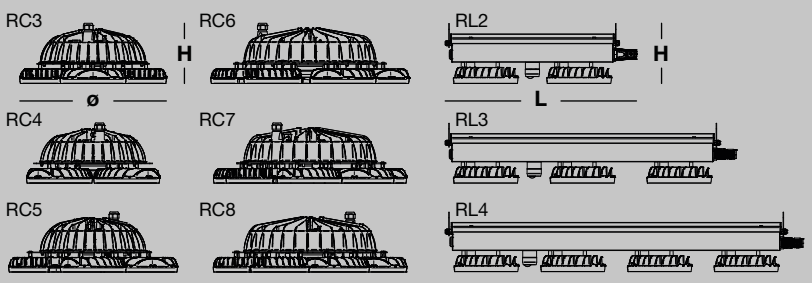
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50100 NEW	3F Rio HO 2L 15000/840 D2D CONC	84	14452	4000	>80	469x208x145
50102 NEW	3F Rio HO 3L 23000/840 D2D CONC	123	21678	4000	>80	656x208x145
50104 NEW	3F Rio HO 4L 31000/840 D2D CONC	165	28905	4000	>80	756x208x145
50109 NEW	3F Rio HO 2L 15000/865 D2D CONC	84	14265	6500	>80	469x208x145
50111 NEW	3F Rio HO 3L 23000/865 D2D CONC	123	21398	6500	>80	656x208x145
50113 NEW	3F Rio HO 4L 31000/865 D2D CONC	165	28531	6500	>80	756x208x145

NEW

/ Waterproof and corrosion-proof







3F Rio High Output Wireless

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Modular structure depending on the number of heat sinks used for circular (C) or linear (L) versions.
Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.

Circular versions
Heavy-gauge stainless steel plate for maximum strength and a circular wiring compartment consisting of a die-cast, in white painted aluminium monoblock with a fixed central ring with luminaire alignment function.

Linear versions
Aluminium and galvanised steel housing painted white, to which the modular heat sinks are attached.

3F Lens lenses in transparent methacrylate (PMMA) with external flat surface, with high luminous efficiency.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Galvanised steel safety cable ø 2 mm and clamps, supplied.
Galvanised steel carabiner for central fixing with chain, supplied.

ELECTRICAL

In compliance with EN 60598-1.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3 P connector.
Multi-sensor (light and presence) with Wireless 2.4 GHz dual Bluetooth LE/Zigbee 3.0 technology.

INSTALLATION

Ceiling mounted or suspension installation via accessory.
SenseMBZQ: Maximum installation height 10 m.
SenseHBZQ: Maximum installation height 17 m.

APPLICATIONS

Ambient temperature from -30°C to +45°C.
Recommended luminaire for energy efficiency and lighting management in installations without adjustable signal cables.

LIGHT MANAGEMENT

Wireless BLE/ZigBee control node integrated in the luminarie.
Each device in the Zigbee 3.0 network receives, regenerates and resends the signal to subsequent devices, creating a wireless Mesh Network.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

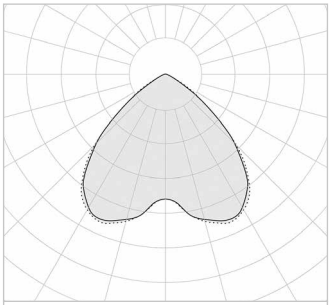
ON REQUEST

- different linear compositions
- different power levels, colour rendering indices and colour temperatures
- versions for sports applications (resistance against ball impacts)
- polycarbonate lenses (IK08)
- housing in different RAL colours
- double switch-on for ON/OFF versions
- wiring: CLO (page 662)
- dual-input power line
- emergency versions

3F Rio HO C Wireless Wide

650°C | IP65 | IK02 | IK05 | 1J





Code 50137

Circular version.
Wide rotosymmetric distribution.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50137 NEW	3F Rio HO 3C 23000/840 SenseHBZQ WIDE	123	22908	4000	>80	462x175
50139 NEW	3F Rio HO 4C 31000/840 SenseHBZQ WIDE	165	30544	4000	>80	508x175
50141 NEW	3F Rio HO 5C 38000/840 SenseHBZQ WIDE	206	38181	4000	>80	530x175
50142 NEW	3F Rio HO 6C 46000/840 SenseHBZQ WIDE	243	45817	4000	>80	626x175
50143 NEW	3F Rio HO 7C 53000/840 SenseHBZQ WIDE	284	53453	4000	>80	610x175
50144 NEW	3F Rio HO 8C 61000/840 SenseHBZQ WIDE	334	61089	4000	>80	645x175
50146 NEW	3F Rio HO 3C 23000/865 SenseHBZQ WIDE	123	22612	6500	>80	462x175
50148 NEW	3F Rio HO 4C 31000/865 SenseHBZQ WIDE	165	30149	6500	>80	508x175
50150 NEW	3F Rio HO 5C 38000/865 SenseHBZQ WIDE	206	37687	6500	>80	530x175
50151 NEW	3F Rio HO 6C 46000/865 SenseHBZQ WIDE	243	45224	6500	>80	626x175
50152 NEW	3F Rio HO 7C 53000/865 SenseHBZQ WIDE	284	52761	6500	>80	610x175
50153 NEW	3F Rio HO 8C 61000/865 SenseHBZQ WIDE	334	60298	6500	>80	645x175

SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

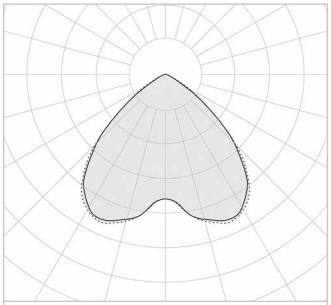
Code	Item	W	lm	K	CRI	ø x H
50301 NEW	3F Rio HO 3C 23000/840 SenseMBZQ WIDE	123	22908	4000	>80	462x175
50303 NEW	3F Rio HO 4C 31000/840 SenseMBZQ WIDE	165	30544	4000	>80	508x175
50305 NEW	3F Rio HO 5C 38000/840 SenseMBZQ WIDE	206	38181	4000	>80	530x175
50306 NEW	3F Rio HO 6C 46000/840 SenseMBZQ WIDE	243	45817	4000	>80	626x175
50307 NEW	3F Rio HO 7C 53000/840 SenseMBZQ WIDE	284	53453	4000	>80	610x175
50308 NEW	3F Rio HO 8C 61000/840 SenseMBZQ WIDE	334	61089	4000	>80	645x175
50310 NEW	3F Rio HO 3C 23000/865 SenseMBZQ WIDE	123	22612	6500	>80	462x175
50312 NEW	3F Rio HO 4C 31000/865 SenseMBZQ WIDE	165	30149	6500	>80	508x175
50314 NEW	3F Rio HO 5C 38000/865 SenseMBZQ WIDE	206	37687	6500	>80	530x175
50315 NEW	3F Rio HO 6C 46000/865 SenseMBZQ WIDE	243	45224	6500	>80	626x175
50316 NEW	3F Rio HO 7C 53000/865 SenseMBZQ WIDE	284	52761	6500	>80	610x175
50317 NEW	3F Rio HO 8C 61000/865 SenseMBZQ WIDE	334	60298	6500	>80	645x175

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3F Rio HO L Wireless Wide

650°C | IP65 | IK02 | IK05 | 1J





Code 50136

Linear version.
Wide distribution with rectangular shape.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50136 NEW	3F Rio HO 2L 15000/840 SenseHBZQ WIDE	84	15272	4000	>80	469x208x145
50138 NEW	3F Rio HO 3L 23000/840 SenseHBZQ WIDE	123	22908	4000	>80	656x208x145
50140 NEW	3F Rio HO 4L 31000/840 SenseHBZQ WIDE	165	30544	4000	>80	756x208x145
50145 NEW	3F Rio HO 2L 15000/865 SenseHBZQ WIDE	84	15075	6500	>80	469x208x145
50147 NEW	3F Rio HO 3L 23000/865 SenseHBZQ WIDE	123	22612	6500	>80	656x208x145
50149 NEW	3F Rio HO 4L 31000/865 SenseHBZQ WIDE	165	30149	6500	>80	756x208x145

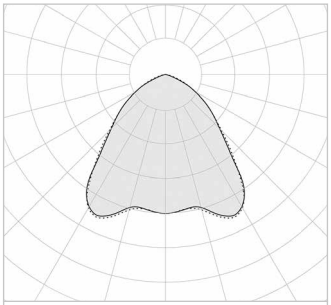
SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50300 NEW	3F Rio HO 2L 15000/840 SenseMBZQ WIDE	84	15272	4000	>80	469x208x145
50302 NEW	3F Rio HO 3L 23000/840 SenseMBZQ WIDE	123	22908	4000	>80	656x208x145
50304 NEW	3F Rio HO 4L 31000/840 SenseMBZQ WIDE	165	30544	4000	>80	756x208x145
50309 NEW	3F Rio HO 2L 15000/865 SenseMBZQ WIDE	84	15075	6500	>80	469x208x145
50311 NEW	3F Rio HO 3L 23000/865 SenseMBZQ WIDE	123	22612	6500	>80	656x208x145
50313 NEW	3F Rio HO 4L 31000/865 SenseMBZQ WIDE	165	30149	6500	>80	756x208x145

3F Rio HO C Wireless Medium

650°C | IP65 | IK02 | IK05 | 1J





Code 50173

Circular version.
Medium rotosymmetric distribution.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50173 NEW	3F Rio HO 3C 23000/840 SenseHBZQ MEDIUM	123	22908	4000	>80	462x175
50175 NEW	3F Rio HO 4C 31000/840 SenseHBZQ MEDIUM	165	30544	4000	>80	508x175
50177 NEW	3F Rio HO 5C 38000/840 SenseHBZQ MEDIUM	206	38181	4000	>80	530x175
50178 NEW	3F Rio HO 6C 46000/840 SenseHBZQ MEDIUM	243	45817	4000	>80	626x175
50179 NEW	3F Rio HO 7C 53000/840 SenseHBZQ MEDIUM	284	53453	4000	>80	610x175
50180 NEW	3F Rio HO 8C 61000/840 SenseHBZQ MEDIUM	334	61089	4000	>80	645x175
50182 NEW	3F Rio HO 3C 23000/865 SenseHBZQ MEDIUM	123	22612	6500	>80	462x175
50184 NEW	3F Rio HO 4C 31000/865 SenseHBZQ MEDIUM	165	30149	6500	>80	508x175
50186 NEW	3F Rio HO 5C 38000/865 SenseHBZQ MEDIUM	206	37687	6500	>80	530x175
50187 NEW	3F Rio HO 6C 46000/865 SenseHBZQ MEDIUM	243	45224	6500	>80	626x175
50188 NEW	3F Rio HO 7C 53000/865 SenseHBZQ MEDIUM	284	52761	6500	>80	610x175
50189 NEW	3F Rio HO 8C 61000/865 SenseHBZQ MEDIUM	334	60298	6500	>80	645x175

SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

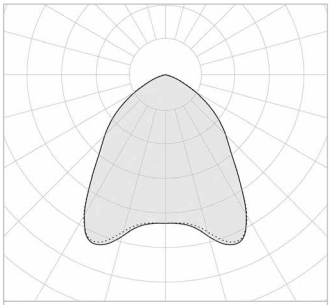
Code	Item	W	lm	K	CRI	ø x H
50319 NEW	3F Rio HO 3C 23000/840 SenseMBZQ MEDIUM	123	22908	4000	>80	462x175
50321 NEW	3F Rio HO 4C 31000/840 SenseMBZQ MEDIUM	165	30544	4000	>80	508x175
50323 NEW	3F Rio HO 5C 38000/840 SenseMBZQ MEDIUM	206	38181	4000	>80	530x175
50324 NEW	3F Rio HO 6C 46000/840 SenseMBZQ MEDIUM	243	45817	4000	>80	626x175
50325 NEW	3F Rio HO 7C 53000/840 SenseMBZQ MEDIUM	284	53453	4000	>80	610x175
50326 NEW	3F Rio HO 8C 61000/840 SenseMBZQ MEDIUM	334	61089	4000	>80	645x175
50328 NEW	3F Rio HO 3C 23000/865 SenseMBZQ MEDIUM	123	22612	6500	>80	462x175
50330 NEW	3F Rio HO 4C 31000/865 SenseMBZQ MEDIUM	165	30149	6500	>80	508x175
50332 NEW	3F Rio HO 5C 38000/865 SenseMBZQ MEDIUM	206	37687	6500	>80	530x175
50333 NEW	3F Rio HO 6C 46000/865 SenseMBZQ MEDIUM	243	45224	6500	>80	626x175
50334 NEW	3F Rio HO 7C 53000/865 SenseMBZQ MEDIUM	284	52761	6500	>80	610x175
50335 NEW	3F Rio HO 8C 61000/865 SenseMBZQ MEDIUM	334	60298	6500	>80	645x175

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3F Rio HO L Wireless Medium

650°C | IP65 | IK02 | IK05 | 1J





Code 50172

Linear version.
Medium distribution with square shape.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50172 NEW	3F Rio HO 2L 15000/840 SenseHBZQ MEDIUM	84	15272	4000	>80	469x208x145
50174 NEW	3F Rio HO 3L 23000/840 SenseHBZQ MEDIUM	123	22908	4000	>80	656x208x145
50176 NEW	3F Rio HO 4L 31000/840 SenseHBZQ MEDIUM	165	30544	4000	>80	756x208x145
50181 NEW	3F Rio HO 2L 15000/865 SenseHBZQ MEDIUM	84	15075	6500	>80	469x208x145
50183 NEW	3F Rio HO 3L 23000/865 SenseHBZQ MEDIUM	123	22612	6500	>80	656x208x145
50185 NEW	3F Rio HO 4L 31000/865 SenseHBZQ MEDIUM	165	30149	6500	>80	756x208x145

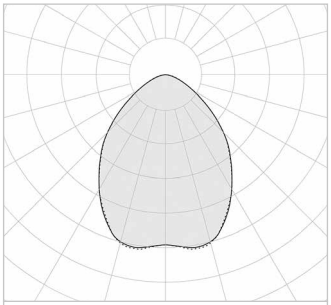
SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50318 NEW	3F Rio HO 2L 15000/840 SenseMBZQ MEDIUM	84	15272	4000	>80	469x208x145
50320 NEW	3F Rio HO 3L 23000/840 SenseMBZQ MEDIUM	123	22908	4000	>80	656x208x145
50322 NEW	3F Rio HO 4L 31000/840 SenseMBZQ MEDIUM	165	30544	4000	>80	756x208x145
50327 NEW	3F Rio HO 2L 15000/865 SenseMBZQ MEDIUM	84	15075	6500	>80	469x208x145
50329 NEW	3F Rio HO 3L 23000/865 SenseMBZQ MEDIUM	123	22612	6500	>80	656x208x145
50331 NEW	3F Rio HO 4L 31000/865 SenseMBZQ MEDIUM	165	30149	6500	>80	756x208x145

3F Rio HO C Wireless Concentrated

650°C | IP65 | IK02 | IK05 | 1J





Code 50209

Circular version.
Concentrated rotosymmetric distribution.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50209 NEW	3F Rio HO 3C 23000/840 SenseHBZQ CONC	123	21678	4000	>80	462x175
50211 NEW	3F Rio HO 4C 31000/840 SenseHBZQ CONC	165	28905	4000	>80	508x175
50213 NEW	3F Rio HO 5C 38000/840 SenseHBZQ CONC	206	36131	4000	>80	530x175
50214 NEW	3F Rio HO 6C 46000/840 SenseHBZQ CONC	243	43357	4000	>80	626x175
50215 NEW	3F Rio HO 7C 53000/840 SenseHBZQ CONC	284	50583	4000	>80	610x175
50216 NEW	3F Rio HO 8C 61000/840 SenseHBZQ CONC	334	57809	4000	>80	645x175
50218 NEW	3F Rio HO 3C 23000/865 SenseHBZQ CONC	123	21398	6500	>80	462x175
50220 NEW	3F Rio HO 4C 31000/865 SenseHBZQ CONC	165	28531	6500	>80	508x175
50222 NEW	3F Rio HO 5C 38000/865 SenseHBZQ CONC	206	35663	6500	>80	530x175
50223 NEW	3F Rio HO 6C 46000/865 SenseHBZQ CONC	243	42796	6500	>80	626x175
50224 NEW	3F Rio HO 7C 53000/865 SenseHBZQ CONC	284	49929	6500	>80	610x175
50225 NEW	3F Rio HO 8C 61000/865 SenseHBZQ CONC	334	57061	6500	>80	645x175

SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

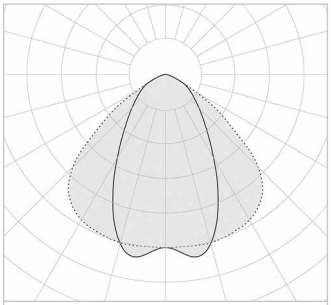
Code	Item	W	lm	K	CRI	ø x H
50337 NEW	3F Rio HO 3C 23000/840 SenseMBZQ CONC	123	21678	4000	>80	462x175
50339 NEW	3F Rio HO 4C 31000/840 SenseMBZQ CONC	165	28905	4000	>80	508x175
50341 NEW	3F Rio HO 5C 38000/840 SenseMBZQ CONC	206	36131	4000	>80	530x175
50342 NEW	3F Rio HO 6C 46000/840 SenseMBZQ CONC	243	43357	4000	>80	626x175
50343 NEW	3F Rio HO 7C 53000/840 SenseMBZQ CONC	284	50583	4000	>80	610x175
50344 NEW	3F Rio HO 8C 61000/840 SenseMBZQ CONC	334	57809	4000	>80	645x175
50346 NEW	3F Rio HO 3C 23000/865 SenseMBZQ CONC	123	21398	6500	>80	462x175
50348 NEW	3F Rio HO 4C 31000/865 SenseMBZQ CONC	165	28531	6500	>80	508x175
50350 NEW	3F Rio HO 5C 38000/865 SenseMBZQ CONC	206	35663	6500	>80	530x175
50351 NEW	3F Rio HO 6C 46000/865 SenseMBZQ CONC	243	42796	6500	>80	626x175
50352 NEW	3F Rio HO 7C 53000/865 SenseMBZQ CONC	284	49929	6500	>80	610x175
50353 NEW	3F Rio HO 8C 61000/865 SenseMBZQ CONC	334	57061	6500	>80	645x175

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rio HO L Wireless Concentrated

650°C | IP65 | IK02 | IK05 | 1J





Code 50208

Linear version.
Concentrated elliptical distribution.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50208 NEW	3F Rio HO 2L 15000/840 SenseHBZQ CONC	84	14452	4000	>80	469x208x145
50210 NEW	3F Rio HO 3L 23000/840 SenseHBZQ CONC	123	21678	4000	>80	656x208x145
50212 NEW	3F Rio HO 4L 31000/840 SenseHBZQ CONC	165	28905	4000	>80	756x208x145
50217 NEW	3F Rio HO 2L 15000/865 SenseHBZQ CONC	84	14265	6500	>80	469x208x145
50219 NEW	3F Rio HO 3L 23000/865 SenseHBZQ CONC	123	21398	6500	>80	656x208x145
50221 NEW	3F Rio HO 4L 31000/865 SenseHBZQ CONC	165	28531	6500	>80	756x208x145

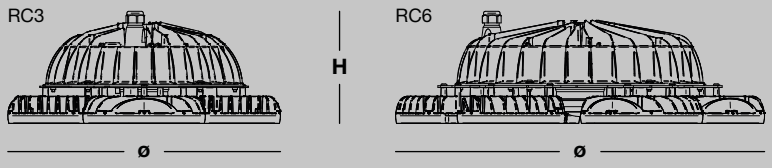
SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50336 NEW	3F Rio HO 2L 15000/840 SenseMBZQ CONC	84	14452	4000	>80	469x208x145
50338 NEW	3F Rio HO 3L 23000/840 SenseMBZQ CONC	123	21678	4000	>80	656x208x145
50340 NEW	3F Rio HO 4L 31000/840 SenseMBZQ CONC	165	28905	4000	>80	756x208x145
50345 NEW	3F Rio HO 2L 15000/865 SenseMBZQ CONC	84	14265	6500	>80	469x208x145
50347 NEW	3F Rio HO 3L 23000/865 SenseMBZQ CONC	123	21398	6500	>80	656x208x145
50349 NEW	3F Rio HO 4L 31000/865 SenseMBZQ CONC	165	28531	6500	>80	756x208x145

NEW

/ Waterproof and corrosion-proof







3F Rio High Temperature

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Luminous flux at +70°C: -13.5%.
Photobiological safety RG0 (page 16).

SOURCE

Circular LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Modular structure depending on the number of heat sinks used for circular (C) or linear (L) versions.
Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Heavy-gauge stainless steel plate for maximum strength and a circular wiring compartment consisting of a die-cast, in white painted aluminium monoblock with a fixed central ring with luminaire alignment function.
3F Lens lenses in transparent polycarbonate with external flat surface, with high luminous efficiency.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Galvanised steel safety cable ø 2 mm and clamps, supplied.
Galvanised steel carabiner for central fixing with chain, supplied.

ELECTRICAL

In compliance with EN 60598-1.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling mounted or suspension installation via accessory.

APPLICATIONS

Ambient temperature from -30°C to +70°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

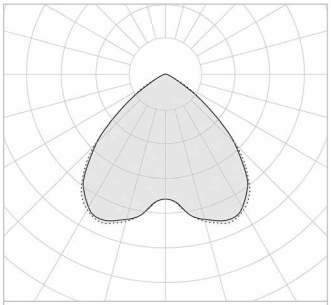
ON REQUEST

- different linear compositions
- different power levels, colour rendering indices and colour temperatures
- housing in different RAL colours
- double switch-on for ON/OFF versions
- wiring: CLO (page 662)
- dual-input power line

3F Rio HT C Wide

850°C | IP66 | 0,5J | IK08





Code 50227

Circular version.
Wide rotosymmetric distribution.

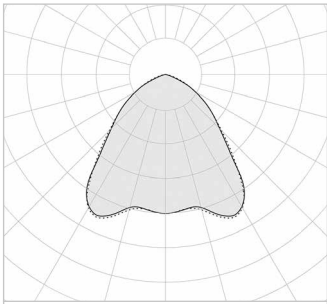
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50227 NEW	3F Rio HT 3C 11000/840 WIDE	63	10726	4000	>80	462x175
50232 NEW	3F Rio HT 6C 21000/840 WIDE	119	21452	4000	>80	626x175

3F Rio HT C Medium

850°C | IP66 | 0,5J | IK08





Code 50245

Circular version.
Medium rotosymmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	ø x H
50245 NEW	3F Rio HT 3C 11000/840 MEDIUM	63	10726	4000	>80	462x175
50250 NEW	3F Rio HT 6C 21000/840 MEDIUM	119	21452	4000	>80	626x175

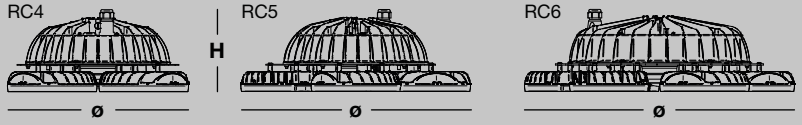
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



NEW

/ Waterproof and corrosion-proof







3F Rio High Efficiency

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Circular LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Modular structure depending on the number of heat sinks used for circular (C) versions.
Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Heavy-gauge stainless steel plate for maximum strength and a circular wiring compartment consisting of a die-cast, in white painted aluminium monoblock with a fixed central ring with luminaire alignment function.
3F Lens lenses in transparent methacrylate (PMMA) with external flat surface, with high luminous efficiency.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Galvanised steel safety cable ø 2 mm and clamps, supplied.
Galvanised steel carabiner for central fixing with chain, supplied.

ELECTRICAL

In compliance with EN 60598-1.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling mounted or suspension installation via accessory.

APPLICATIONS

Ambient temperature from -30°C to +45°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

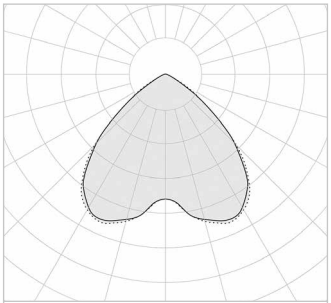
ON REQUEST

- different linear compositions
- different power levels, colour rendering indices and colour temperatures
- versions for sports applications (resistance against ball impacts)
- polycarbonate lenses (IK08)
- housing in different RAL colours
- double switch-on for ON/OFF versions
- wiring: CLO (page 662)
- dual-input power line
- emergency versions

3F Rio HE C Wide

650°C | IP66 | 1J | IK06





Code 50355

Circular version.
Wide rotosymmetric distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50355 NEW	3F Rio HE 4C 23000/840 WIDE	116	22613	4000	>80	508x508x175
50356 NEW	3F Rio HE 5C 28000/840 WIDE	146	28266	4000	>80	530x530x175
50357 NEW	3F Rio HE 6C 34000/840 WIDE	168	33919	4000	>80	626x626x175

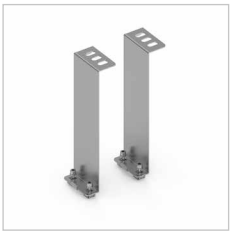
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
50358 NEW	3F Rio HE 4C 23000/840 D2D WIDE	116	22613	4000	>80	508x508x175
50359 NEW	3F Rio HE 5C 28000/840 D2D WIDE	146	28266	4000	>80	530x530x175
50360 NEW	3F Rio HE 6C 34000/840 D2D WIDE	172	33919	4000	>80	626x626x175

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


nfanti

3F Rio | Accessories



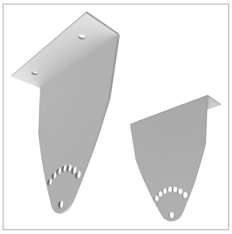
Code	Item
A0644 NEW	Pair of brackets ceiling Rio C

Brackets for mounting of luminaire on ceiling, stainless steel.



Code	Item
A0652	Pair of ceiling brack. LEM/Rio L

Brackets for mounting of luminaire on ceiling or on bus ducts, stainless steel.
Please note: these brackets do NOT provide free orientation of the luminaire. To allow free orientation, accessories A0651+A0632 must be installed.



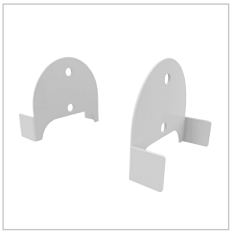
Code	Item
A0632	Pair of inclin. Ceiling brack. LEM/Rio L

Brackets for ceiling mounting, in hot-galvanised steel painted in white polyester.
The bracket A0632 allows the luminaire to be ceiling mounted without the possibility to rotate it. To allow free orientation, both accessories (A0651+A0632) must be installed.



Code	Item
A0654	Pair of wall brackets LEM /Rio L

Brackets for wall mounting, in in hot-galvanised steel painted in white polyester.
The bracket A0654 allows the luminaire to be wall mounted without the possibility to rotate it. To allow free orientation, both accessories (A0651+A0654) must be installed.



Code	Item
A0651	Pair of rot. brack. support LEM/Rio L

Additional bracket that, combined with the A0654 or A0632 accessories, makes it possible for the luminaires to be oriented on the ceiling or the wall, in hot-galvanised steel painted in white polyester.
This accessory must ALWAYS be used with one of the following codes: A0632 - A0654.



Code	Item
A0776	Rotation brack. LEM 1-2/Rio 2L-S
A0777	Rotation brack. LEM 2S-3/Rio 3L
A0778	Rotation brack. LEM 4/Rio 3LS-4L
A0779 NEW	Rotation brack. Rio 4LS

Brackets for rotating luminaries mounted on ceilings or on bus ducts.



Code	Item
A0242	15SS galvanized steel cable coil 100m The pack contains 100 metres.
A0243	15BF galvanized steel cable coil 500m The pack contains 500 metres.

Anti-fall safety cable Ø 2 mm for fastening the body to the building structure.
Coupling accessory A0714 to one of the two safety cables (A0242 or A0243) provides an anti-fall kit fixing and adjusting the cable on the load-bearing element of the building structure. The cable passes between the two passage holes on the hanging brackets. Suitable for environments subject to impacts or seismic zones.



Code	Item
A0714	Clamp 2 holes susp.- 100 pcs The pack contains 100 pieces.

Clamp in nickel-plated brass suitable for fixing and adjustment of galvanised steel wire (diameter 1,25 mm 1,5 mm - 2 mm), complete with locking screws. The 2 hole clamp allows to block and adjust the cable on a bearing element (part of the building) or on rounded eye bolt.



Code	Item
A01006 NEW	Cable gland reducer ø7-9mm for CR 3P The pack contains 10 pieces.
A01007 NEW	Cable gland reducer ø13-17mm for CR 5P The pack contains 10 pieces.

A01006 compatible with ON/OFF, SENSEHBZQ e SENSEMBZQ versions, reduces the power line input from ø9-13mm to ø7-9mm. A01007 compatible with EP e D2D versions, increases the power line input from ø9-13mm to ø13-17mm.

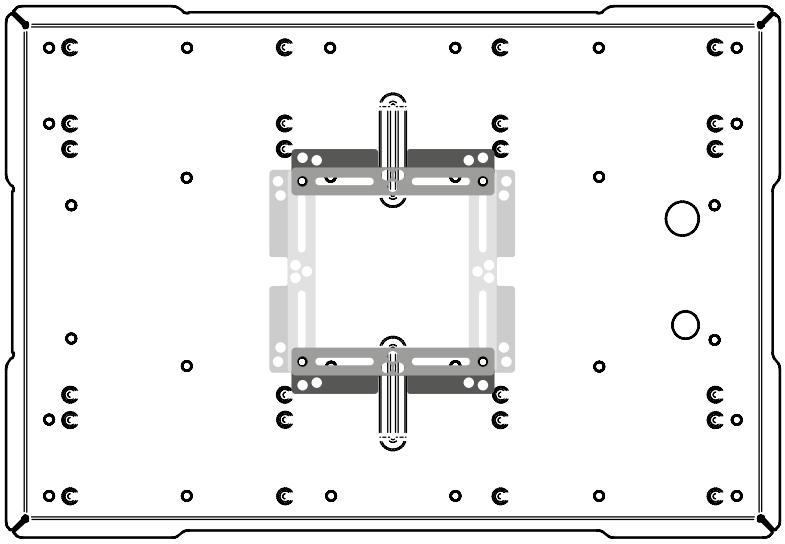


/ 3F Rover

3F Rover: the revolutionary industrial product characterised by exceptional strength and remarkable lightweight construction.

_Efficiency up to 175 lm/W.
_Fluxes up to 51,000lm.
_Pitches up to 1.58 x hu.
_UGR <22.
_Wide, Medium and Narrow distributions.
_Ta 45°C.
_Single (S) and Double (D) models.
_Service life (L80/B10): 100.000 h.
_Standard and Sensor versions.
_ON/OFF and DALI-2 DATA.
_IoT ready.
_Quick connection.
_Simplified maintenance.
_Dual-position mounting brackets.





Consistent pitch - 90° rotation

Sturdy yet **sleek.**

In the realm of industrial products, weight often poses a significant challenge.

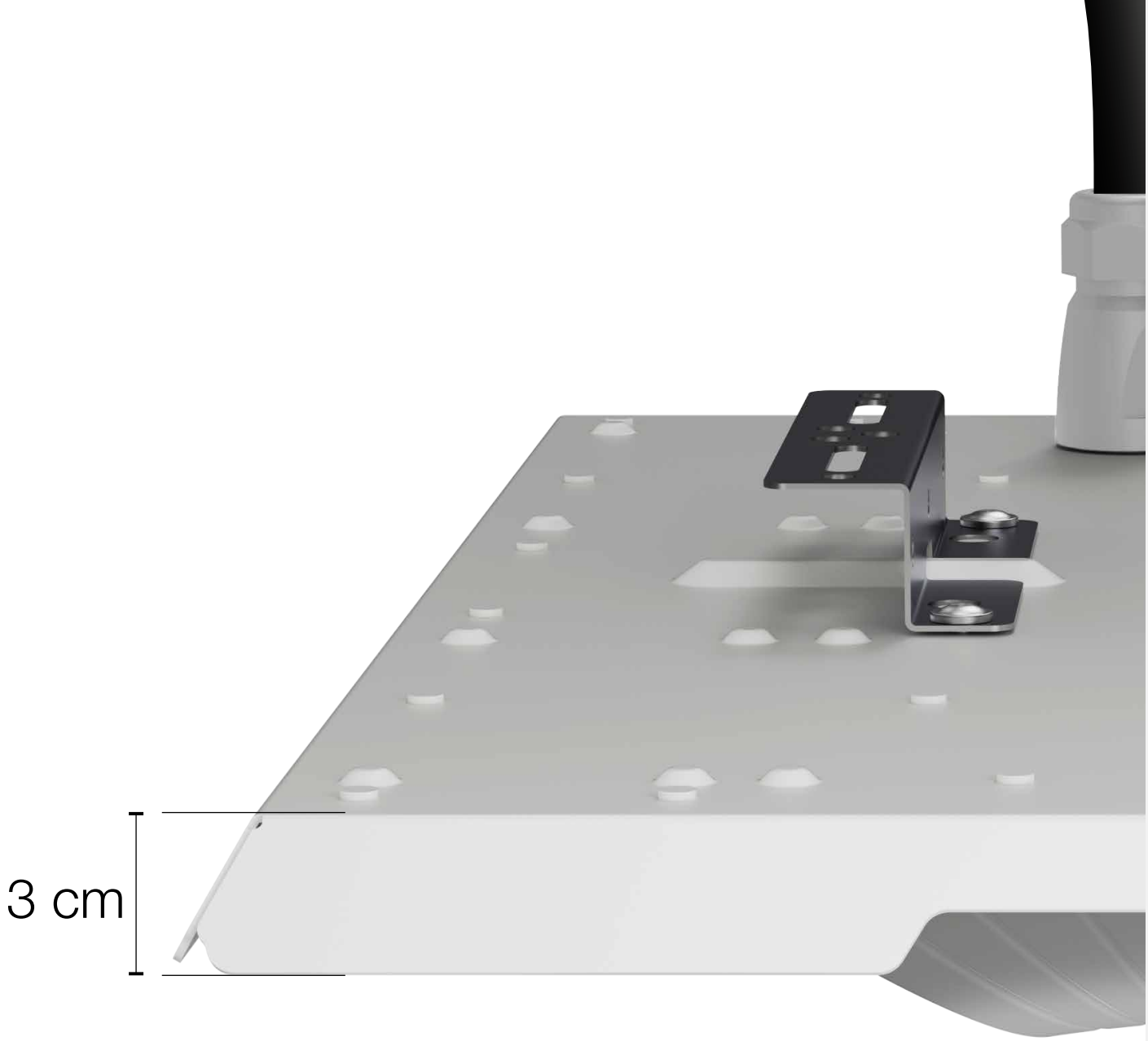
These fixtures, installed at elevated heights, must ensure optimal lighting performance, which typically adds to their weight due to the need to dissipate the heat generated by the light sources.

One of the standout features of 3F Rover is its lightweight design. To uphold this characteristic without compromising performance, our R&D team has developed a patented technology making it possible to preserve the product's mechanical heat dissipation capabilities, despite its slender 4.5 mm profile.

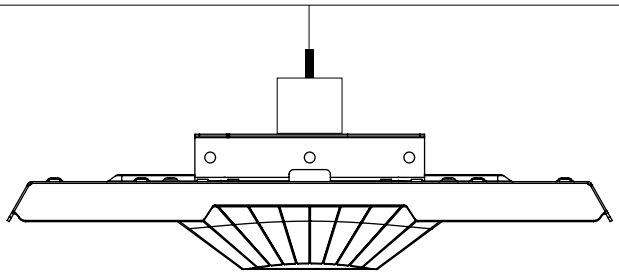
Moreover, its design separates the electronics, situated beneath the product, from the heat dissipation area, with the heat being directed upwards. This ensures a markedly longer service life compared to most similar products.

To minimise 3F Rover installation times, we have engineered a pair of standard stainless steel brackets suitable for either ceiling or suspended installation (with or without a chain), as well as busbar installation.

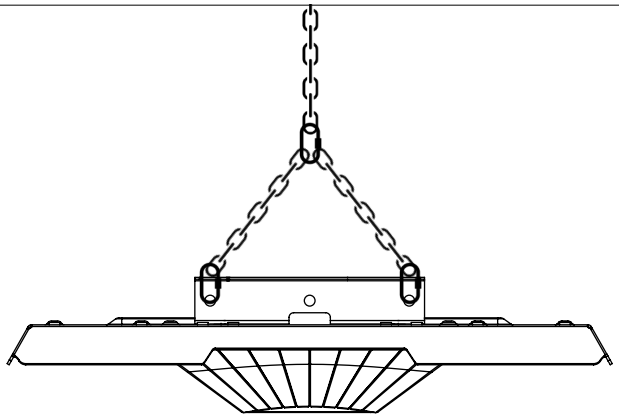
These brackets ensure fast and adaptable installation, allowing perpendicular or transverse attachment to the body of the fixture, granting users the flexibility to orient 3F Rover according to their specific needs or preferences.



Scale 1:2
mm



Busbar



Chain suspension

So **reliable** you forget it’s there.

All our products are designed to last without requiring any maintenance. However, should the product ever need to be updated or inspected, 3F Rover also stands out for its user-friendly handling.

The electronics and IoT wireless connection systems are housed within a wiring compartment located under the product, ensuring the highest level of IP protection.

This enables installers to service the fixtures without needing to dismantle them. Simply remove the front protective cover with a screwdriver to access the internal components of the product directly.



3F Rover
Chain suspension



High-**performance** dualism.

This industrial product stands out for its exceptional versatility and superior performance, thanks to its cutting-edge design.

3F Rover is the perfect choice for illuminating large warehouses and logistics areas requiring the integration of advanced management and connectivity (IoT) systems.

3F Rover is also available in a Double (D) version for increased light output, while maintaining the distinctive features and benefits of the Single (S) version of 3F Rover.

This variant can similarly be equipped with IoT sensor technology, seamlessly integrated into one of the two light fixtures housed in the centre of the wiring compartment.

The product is available with controlled Wide, Medium, Narrow and HRL emission, in both product versions (Single or Double), reaching an impressive efficiency of up to 175 lm/W and fluxes of up to 51,000 lm, ensuring a UGR value of <22.



3F Rover S



3F Rover D



Bus bar

Ceiling

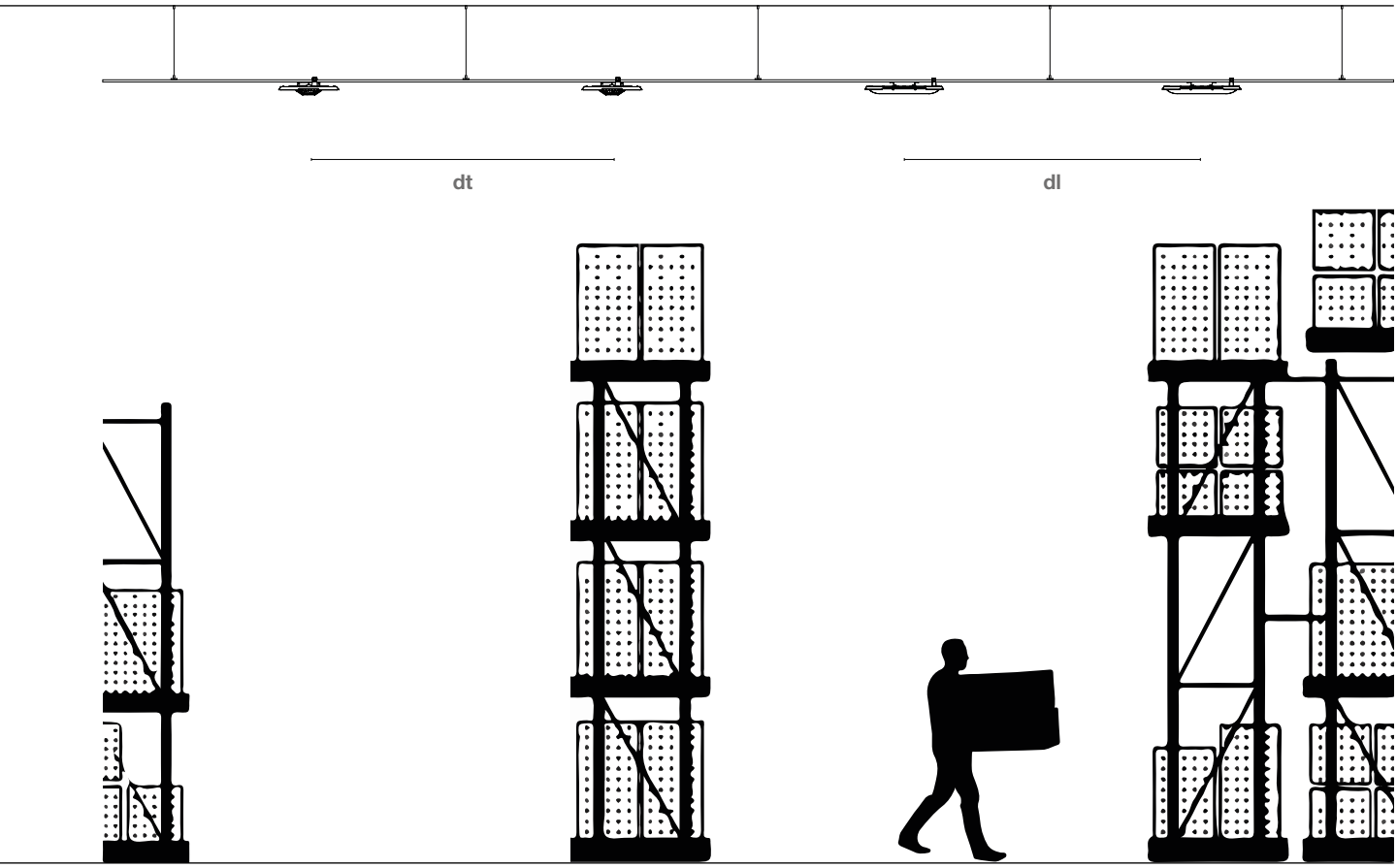
Suspended



Range

3F Rover

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Rover Wide	152 - 304	18180 - 50917	/840 /865	ON/OFF D2D	Wide	1,50 x 1,20	575x395x65 575x795x65
3F Rover Medium	152 - 304	17795 - 49839	/840 /865	ON/OFF D2D	Medium	120 x 1,20	575x395x65 575x795x65
3F Rover Concentrated	152 - 304	17410 - 48761	/840 /865	ON/OFF D2D	Concentrated	0,60 x 1,20	575x395x65 575x795x65
3F Rover HRL	152 - 304	18000 - 50000	/840 /865	ON/OFF D2D	High Rack Lens	0,90 x 1,25	575x395x65 575x795x65



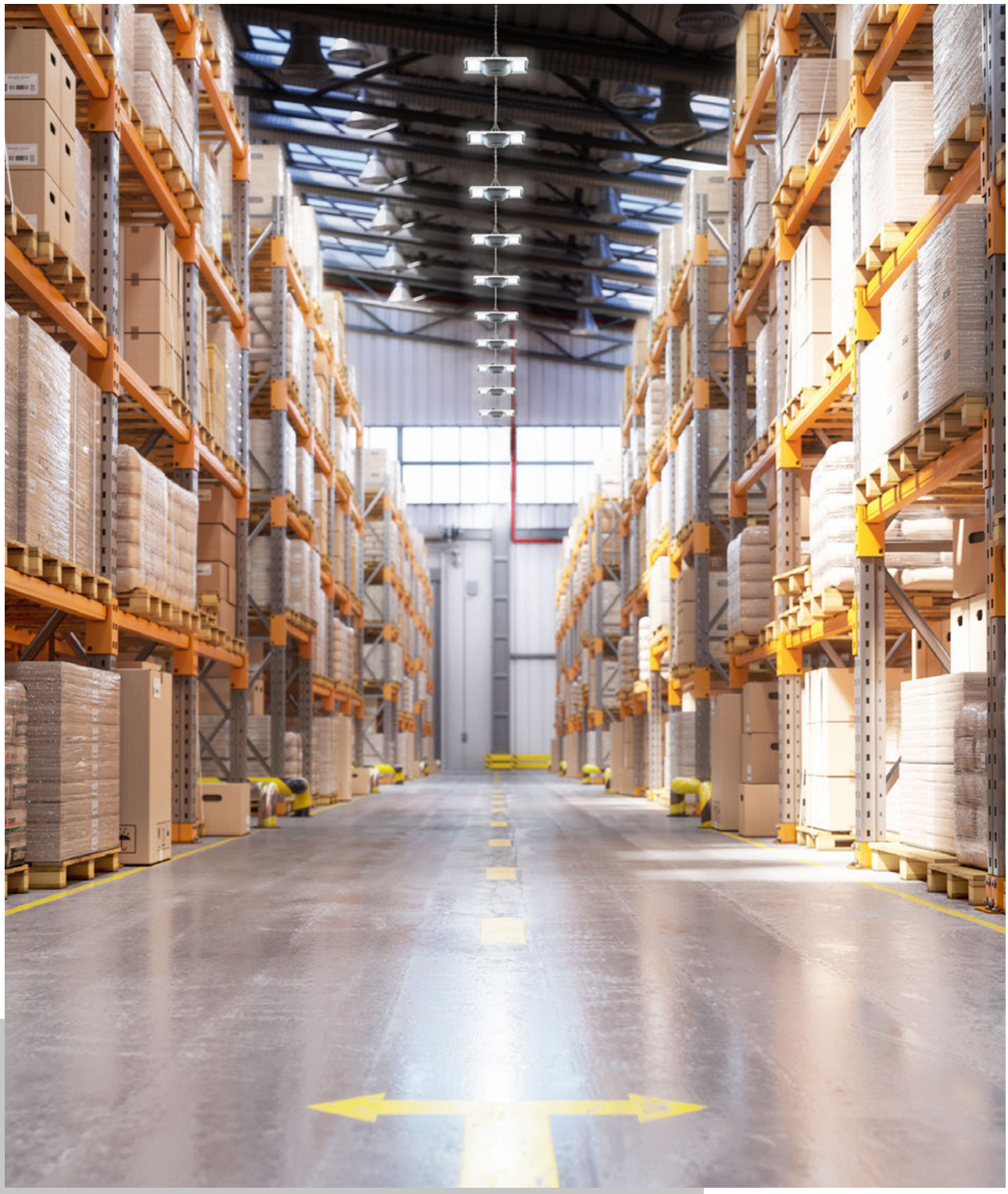
Range

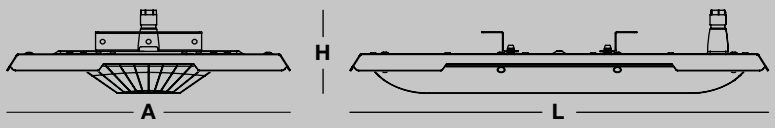
3F Rover

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Rover Wireless Wide	152 - 304	25458 - 50917	/840 /865	D2D	Wide	1,50 x 1,20	575x395x65 575x795x65
3F Rover Wireless Medium	152 - 304	24920 - 49839	/840 /865	D2D	Medium	120 x 1,20	575x395x65 575x795x65
3F Rover Wireless Conc	152 - 304	24381 - 48761	/840 /865	D2D	Concentrated	0,60 x 1,20	575x395x65 575x795x65
3F Rover Wireless HRL	152 - 304	25000 - 50000	/840 /865	D2D	High Rack Lens	0,90 x 1,25	575x395x65 575x795x65

NEW

/ Waterproof and corrosion-proof







3F Rover

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

White epoxy-polyester powder-coated aluminium housing with thick plate for more effective heat dissipation.
White polycarbonate cover.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Fixing bracket in stainless steel.
3F Lens lenses in transparent methacrylate (PMMA) with external flat surface, with high luminous efficiency.

ELECTRICAL

In compliance with EN 60598-1.
Inspectable electrical unit.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling mounted or suspension installation via accessory.

APPLICATIONS

Ambient temperature from -30°C to +50°C.
Dry, dusty indoor environments, subject to occasional water splashes.
In commercial environments, exhibition and industrial areas, stores, open areas or with shelves.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

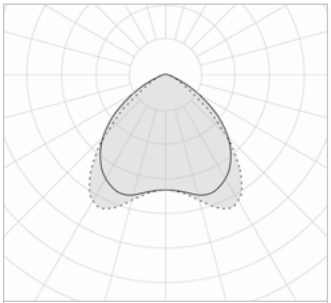
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- versions for sports applications (resistance against ball impacts)
- polycarbonate lenses (IK08)
- housing in different RAL colours
- double switch-on for ON/OFF versions
- wiring: CLO (page 662)
- dual-input power/signal line
- emergency versions

3F Rover Wide

650°C | IP65 | 1J | IK06 | HACCP





Code 57400

Wide distribution with rectangular shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57400 NEW	3F Rover S 18000/840 WIDE	102	17450	4000	>80	575x395x65
57401 NEW	3F Rover S 25000/840 WIDE	150	25044	4000	>80	575x395x65
57402 NEW	3F Rover D 35000/840 WIDE	202	34900	4000	>80	575x795x65
57403 NEW	3F Rover D 50000/840 WIDE	300	50086	4000	>80	575x795x65
57404 NEW	3F Rover S 18000/865 WIDE	102	16979	6500	>80	575x395x65
57405 NEW	3F Rover S 25000/865 WIDE	150	24367	6500	>80	575x395x65
57406 NEW	3F Rover D 35000/865 WIDE	202	33957	6500	>80	575x795x65
57407 NEW	3F Rover D 50000/865 WIDE	300	48734	6500	>80	575x795x65

DALI electronic wiring 230V-50/60Hz

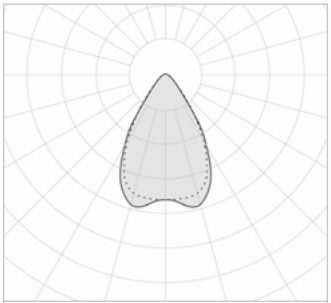
Code	Item	W	lm	K	CRI	L x A x H
57432 NEW	3F Rover S 18000/840 D2D WIDE	102	17450	4000	>80	575x395x65
57433 NEW	3F Rover S 25000/840 D2D WIDE	150	25044	4000	>80	575x395x65
57434 NEW	3F Rover D 35000/840 D2D WIDE	202	34900	4000	>80	575x795x65
57435 NEW	3F Rover D 50000/840 D2D WIDE	300	50086	4000	>80	575x795x65
57436 NEW	3F Rover S 18000/865 D2D WIDE	102	16979	6500	>80	575x395x65
57437 NEW	3F Rover S 25000/865 D2D WIDE	150	24367	6500	>80	575x395x65
57438 NEW	3F Rover D 35000/865 D2D WIDE	202	33957	6500	>80	575x795x65
57439 NEW	3F Rover D 50000/865 D2D WIDE	300	48734	6500	>80	575x795x65

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rover Medium

650°C | IP65 | 1J | IK06 | HACCP





Code 57408

Medium distribution with square shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57408 NEW	3F Rover S 18000/840 MEDIUM	102	17431	4000	>80	575x395x65
57409 NEW	3F Rover S 25000/840 MEDIUM	150	25017	4000	>80	575x395x65
57410 NEW	3F Rover D 35000/840 MEDIUM	202	34862	4000	>80	575x795x65
57411 NEW	3F Rover D 50000/840 MEDIUM	300	50032	4000	>80	575x795x65
57412 NEW	3F Rover S 18000/865 MEDIUM	102	16961	6500	>80	575x395x65
57413 NEW	3F Rover S 25000/865 MEDIUM	150	24340	6500	>80	575x395x65
57414 NEW	3F Rover D 35000/865 MEDIUM	202	33921	6500	>80	575x795x65
57415 NEW	3F Rover D 50000/865 MEDIUM	300	48681	6500	>80	575x795x65

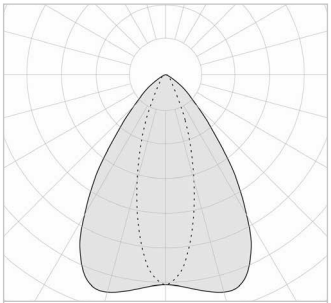
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57440 NEW	3F Rover S 18000/840 D2D MEDIUM	102	17431	4000	>80	575x395x65
57441 NEW	3F Rover S 25000/840 D2D MEDIUM	150	25017	4000	>80	575x395x65
57442 NEW	3F Rover D 35000/840 D2D MEDIUM	202	34862	4000	>80	575x795x65
57443 NEW	3F Rover D 50000/840 D2D MEDIUM	300	50032	4000	>80	575x795x65
57444 NEW	3F Rover S 18000/865 D2D MEDIUM	102	16961	6500	>80	575x395x65
57445 NEW	3F Rover S 25000/865 D2D MEDIUM	150	24340	6500	>80	575x395x65
57446 NEW	3F Rover D 35000/865 D2D MEDIUM	202	33921	6500	>80	575x795x65
57447 NEW	3F Rover D 50000/865 D2D MEDIUM	300	48681	6500	>80	575x795x65

3F Rover Concentrated

650°C | IP65 | 1J | IK06 | HACCP





Code 57416

Concentrated elliptical distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57416 NEW	3F Rover S 18000/840 CONC	102	17054	4000	>80	575x395x65
57417 NEW	3F Rover S 25000/840 CONC	150	24476	4000	>80	575x395x65
57418 NEW	3F Rover D 35000/840 CONC	202	34109	4000	>80	575x795x65
57419 NEW	3F Rover D 50000/840 CONC	300	48951	4000	>80	575x795x65
57420 NEW	3F Rover S 18000/865 CONC	102	16594	6500	>80	575x395x65
57421 NEW	3F Rover S 25000/865 CONC	150	23814	6500	>80	575x395x65
57422 NEW	3F Rover D 35000/865 CONC	202	33187	6500	>80	575x795x65
57423 NEW	3F Rover D 50000/865 CONC	300	47628	6500	>80	575x795x65

DALI electronic wiring 230V-50/60Hz

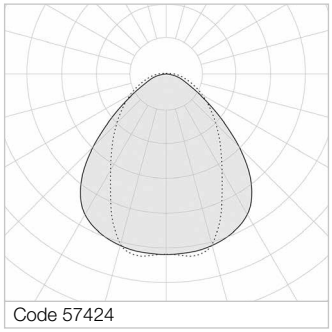
Code	Item	W	lm	K	CRI	L x A x H
57448 NEW	3F Rover S 18000/840 D2D CONC	102	17054	4000	>80	575x395x65
57449 NEW	3F Rover S 25000/840 D2D CONC	150	24476	4000	>80	575x395x65
57450 NEW	3F Rover D 35000/840 D2D CONC	202	34109	4000	>80	575x795x65
57451 NEW	3F Rover D 50000/840 D2D CONC	300	48951	4000	>80	575x795x65
57452 NEW	3F Rover S 18000/865 D2D CONC	102	16594	6500	>80	575x395x65
57453 NEW	3F Rover S 25000/865 D2D CONC	150	23814	6500	>80	575x395x65
57454 NEW	3F Rover D 35000/865 D2D CONC	202	33187	6500	>80	575x795x65
57455 NEW	3F Rover D 50000/865 D2D CONC	300	47628	6500	>80	575x795x65

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3F Rover HRL

650°C | IP65 | 1J | IK06 | HACCP





Code 57424

Concentrated distribution (Rack washer).

ON/OFF electronic wiring 230V-50/60Hz

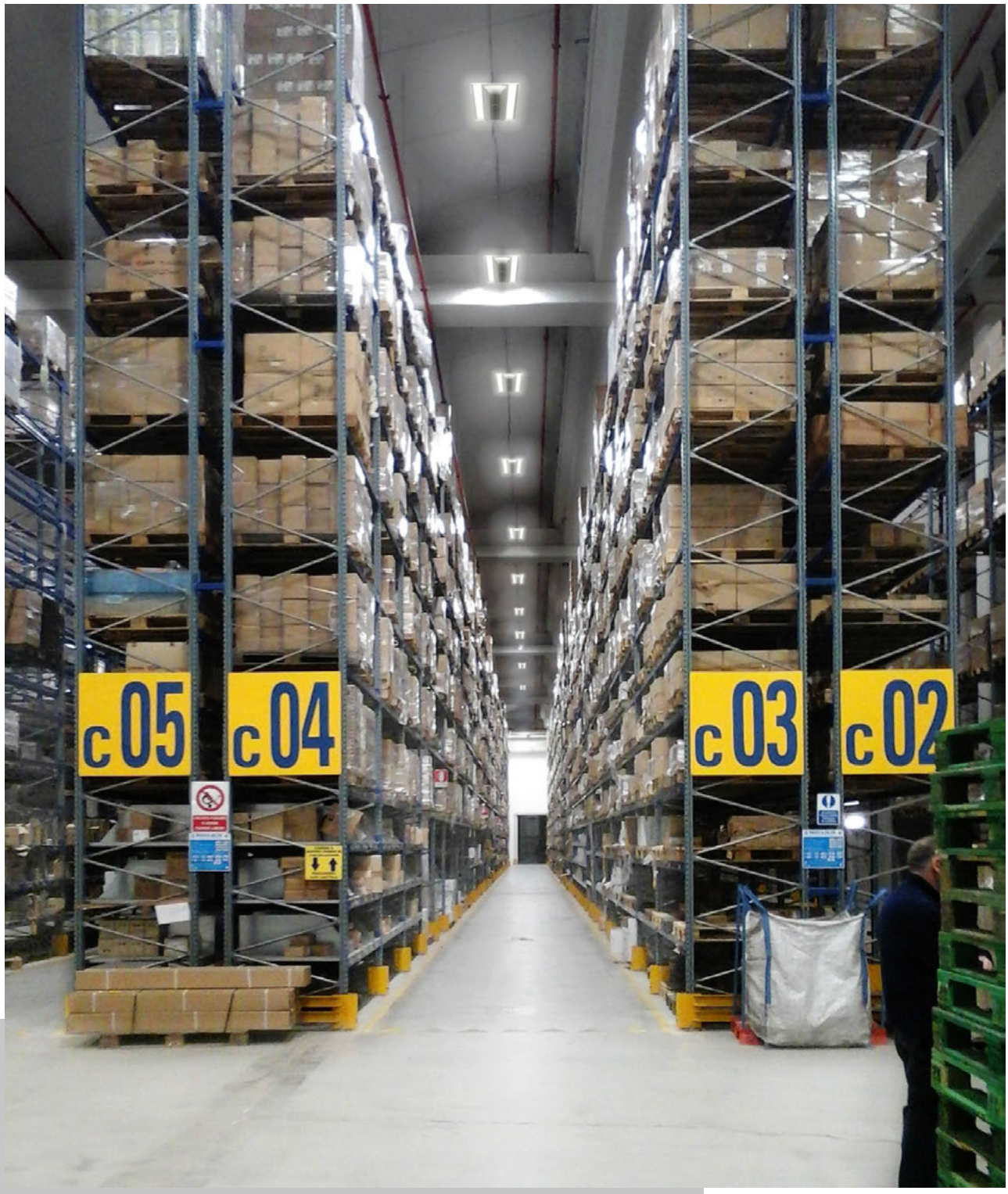
Code	Item	W	lm	K	CRI	L x A x H
57424 NEW	3F Rover S 18000/840 HRL	104	16997	4000	>80	575x395x65
57425 NEW	3F Rover S 25000/840 HRL	150	24395	4000	>80	575x395x65
57426 NEW	3F Rover D 35000/840 HRL	202	33995	4000	>80	575x795x65
57427 NEW	3F Rover D 50000/840 HRL	300	48788	4000	>80	575x795x65
57428 NEW	3F Rover S 18000/865 HRL	104	16539	6500	>80	575x395x65
57429 NEW	3F Rover S 25000/865 HRL	150	23735	6500	>80	575x395x65
57430 NEW	3F Rover D 35000/865 HRL	202	33077	6500	>80	575x795x65
57431 NEW	3F Rover D 50000/865 HRL	300	47470	6500	>80	575x795x65

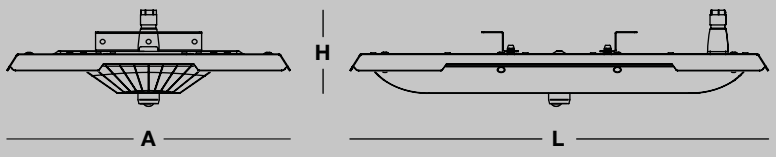
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57456 NEW	3F Rover S 18000/840 D2D HRL	104	16997	4000	>80	575x395x65
57457 NEW	3F Rover S 25000/840 D2D HRL	150	24395	4000	>80	575x395x65
57458 NEW	3F Rover D 35000/840 D2D HRL	202	33995	6500	>80	575x795x65
57459 NEW	3F Rover D 50000/840 D2D HRL	300	48788	6500	>80	575x795x65
57460 NEW	3F Rover S 18000/865 D2D HRL	104	16539	6500	>80	575x395x65
57461 NEW	3F Rover S 25000/865 D2D HRL	150	23735	6500	>80	575x395x65
57462 NEW	3F Rover D 35000/865 D2D HRL	202	33077	6500	>80	575x795x65
57463 NEW	3F Rover D 50000/865 D2D HRL	300	47470	6500	>80	575x795x65

NEW

/ Waterproof and corrosion-proof







3F Rover Wireless

ILLUMINOTECHNICAL

Wide, medium and concentrated distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

White epoxy-polyester powder-coated aluminium housing with thick plate for more effective heat dissipation.
White polycarbonate cover.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Fixing bracket in stainless steel.
3F Lens lenses in transparent methacrylate (PMMA) with external flat surface, with high luminous efficiency.

ELECTRICAL

In compliance with EN 60598-1.
Inspectable electrical unit.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3 P connector.
Multi-sensor (light and presence) with Wireless 2.4 GHz dual Bluetooth LE/Zigbee 3.0 technology.

INSTALLATION

Ceiling mounted or suspension installation via accessory.
SenseMBZQ: Maximum installation height 10 m.
SenseHBZQ: Maximum installation height 17 m.

APPLICATIONS

Ambient temperature from -30°C to +50°C.
Recommended in environments with strong amount of natural light (or areas with staff present discontinuously).
Dry, dusty indoor environments, subject to occasional water splashes.
In commercial environments, exhibition and industrial areas, stores, open areas or with shelves.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI Sensor products are all fitted with light and presence sensors integrated (page 638).
Wireless BLE/ZigBee control node integrated in the luminarie.
Each device in the Zigbee 3.0 network receives, regenerates and resends the signal to subsequent devices, creating a wireless Mesh Network.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

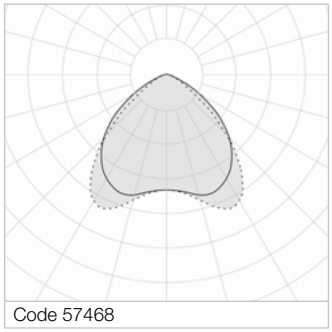
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- versions for sports applications (resistance against ball impacts)
- polycarbonate lenses (IK08)
- housing in different RAL colours
- wiring: CLO (page 662)
- dual-input power line
- emergency versions

3F Rover Wireless Wide

650°C | IP65 | IK02 | IK05 | 1J | HACCP





Code 57468

Wide distribution with rectangular shape.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57468 NEW	3F Rover S 25000/840 SenseHBZQ WIDE	150	25044	4000	>80	575x395x65
57469 NEW	3F Rover D 50000/840 SenseHBZQ WIDE	300	50086	4000	>80	575x795x65
57470 NEW	3F Rover S 25000/865 SenseHBZQ WIDE	150	24367	6500	>80	575x395x65
57471 NEW	3F Rover D 50000/865 SenseHBZQ WIDE	300	48734	6500	>80	575x795x65

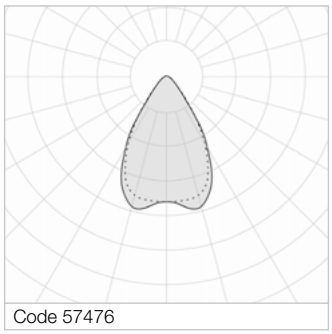
SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57496 NEW	3F Rover S 25000/840 SenseMBZQ WIDE	150	25044	4000	>80	575x395x65
57498 NEW	3F Rover D 50000/840 SenseMBZQ WIDE	300	50086	4000	>80	575x795x65
57499 NEW	3F Rover S 25000/865 SenseMBZQ WIDE	150	24367	6500	>80	575x395x65
57500 NEW	3F Rover D 50000/865 SenseMBZQ WIDE	300	48734	6500	>80	575x795x65

3F Rover Wireless Medium

650°C | IP65 | IK02 | IK05 | 1J | HACCP





Code 57476

Medium distribution with square shape.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57476 NEW	3F Rover S 25000/840 SenseHBZQ MEDIUM	150	25017	4000	>80	575x395x65
57477 NEW	3F Rover D 50000/840 SenseHBZQ MEDIUM	300	50032	4000	>80	575x795x65
57478 NEW	3F Rover S 25000/865 SenseHBZQ MEDIUM	150	24340	6500	>80	575x395x65
57479 NEW	3F Rover D 50000/865 SenseHBZQ MEDIUM	300	48681	6500	>80	575x795x65

SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

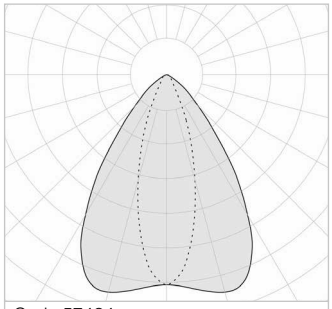
Code	Item	W	lm	K	CRI	L x A x H
57501 NEW	3F Rover S 25000/840 SenseMBZQ MEDIUM	150	25017	4000	>80	575x395x65
57502 NEW	3F Rover D 50000/840 SenseMBZQ MEDIUM	300	50032	4000	>80	575x795x65
57503 NEW	3F Rover S 25000/865 SenseMBZQ MEDIUM	150	24340	6500	>80	575x395x65
57504 NEW	3F Rover D 50000/865 SenseMBZQ MEDIUM	300	48681	6500	>80	575x795x65

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Rover Wireless Concentrated

650°C | IP65 | IK02 | IK05 | 1J | HACCP





Code 57484

Concentrated elliptical distribution.
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57484 NEW	3F Rover S 25000/840 SenseHBZQ CONC	150	24476	4000	>80	575x395x65
57485 NEW	3F Rover D 50000/840 SenseHBZQ CONC	300	48951	4000	>80	575x795x65
57486 NEW	3F Rover S 25000/865 SenseHBZQ CONC	150	23814	6500	>80	575x395x65
57487 NEW	3F Rover D 50000/865 SenseHBZQ CONC	300	47628	6500	>80	575x795x65

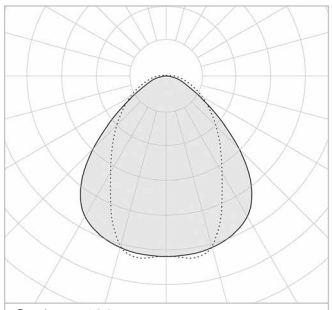
SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57505 NEW	3F Rover S 25000/840 SenseMBZQ CONC	150	24476	4000	>80	575x395x65
57507 NEW	3F Rover D 50000/840 SenseMBZQ CONC	300	48951	4000	>80	575x795x65
57508 NEW	3F Rover S 25000/865 SenseMBZQ CONC	150	23814	6500	>80	575x395x65
57509 NEW	3F Rover D 50000/865 SenseMBZQ CONC	300	47628	6500	>80	575x795x65

3F Rover Wireless HRL

650°C | IP65 | IK02 | IK05 | 1J | HACCP





Code 57492

Concentrated distribution (Rack washer).
SenseHBZQ versions: IK02.
SenseMBZQ versions: IK05.

SenseHBZQ (max 17m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57492 NEW	3F Rover S 25000/840 SenseHBZQ HRL	150	24395	4000	>80	575x395x65
57493 NEW	3F Rover D 50000/840 SenseHBZQ HRL	300	48788	4000	>80	575x795x65
57494 NEW	3F Rover S 25000/865 SenseHBZQ HRL	150	23735	6500	>80	575x395x65
57495 NEW	3F Rover D 50000/865 SenseHBZQ HRL	300	47470	6500	>80	575x795x65

SenseMBZQ (max 10m) - DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57510 NEW	3F Rover S 25000/840 SenseMBZQ HRL	150	24395	4000	>80	575x395x65
57511 NEW	3F Rover D 50000/840 SenseMBZQ HRL	300	48788	4000	>80	575x795x65
57512 NEW	3F Rover S 25000/865 SenseMBZQ HRL	150	23735	6500	>80	575x395x65
57513 NEW	3F Rover D 50000/865 SenseMBZQ HRL	300	47470	6500	>80	575x795x65

3F Rover | Accessories



Code	Item
A01004 NEW	Pair of brackets ceiling Rover

Brackets for mounting of luminaire on ceiling, stainless steel.



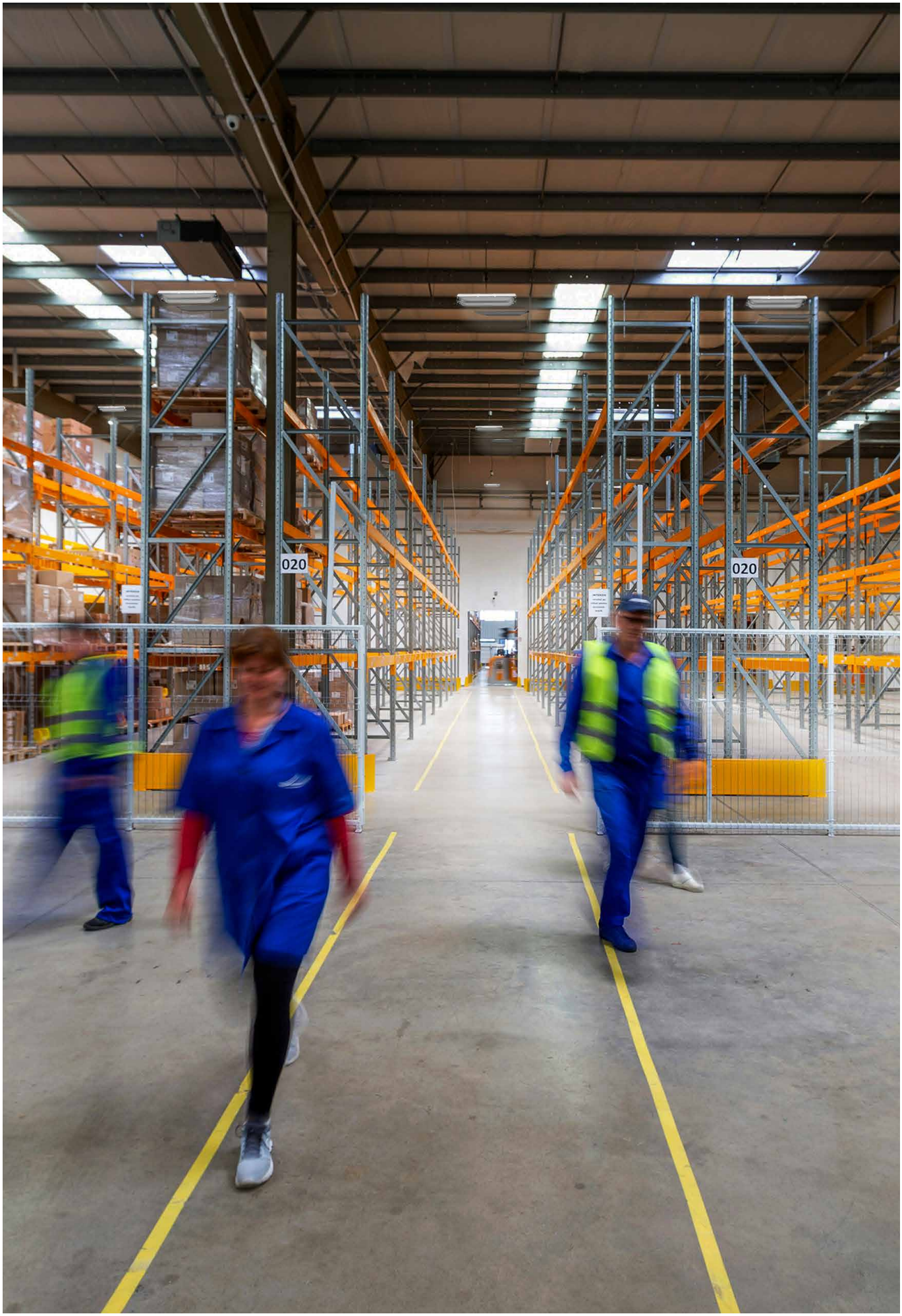
Code	Item
A01005 NEW	Chain suspension kit

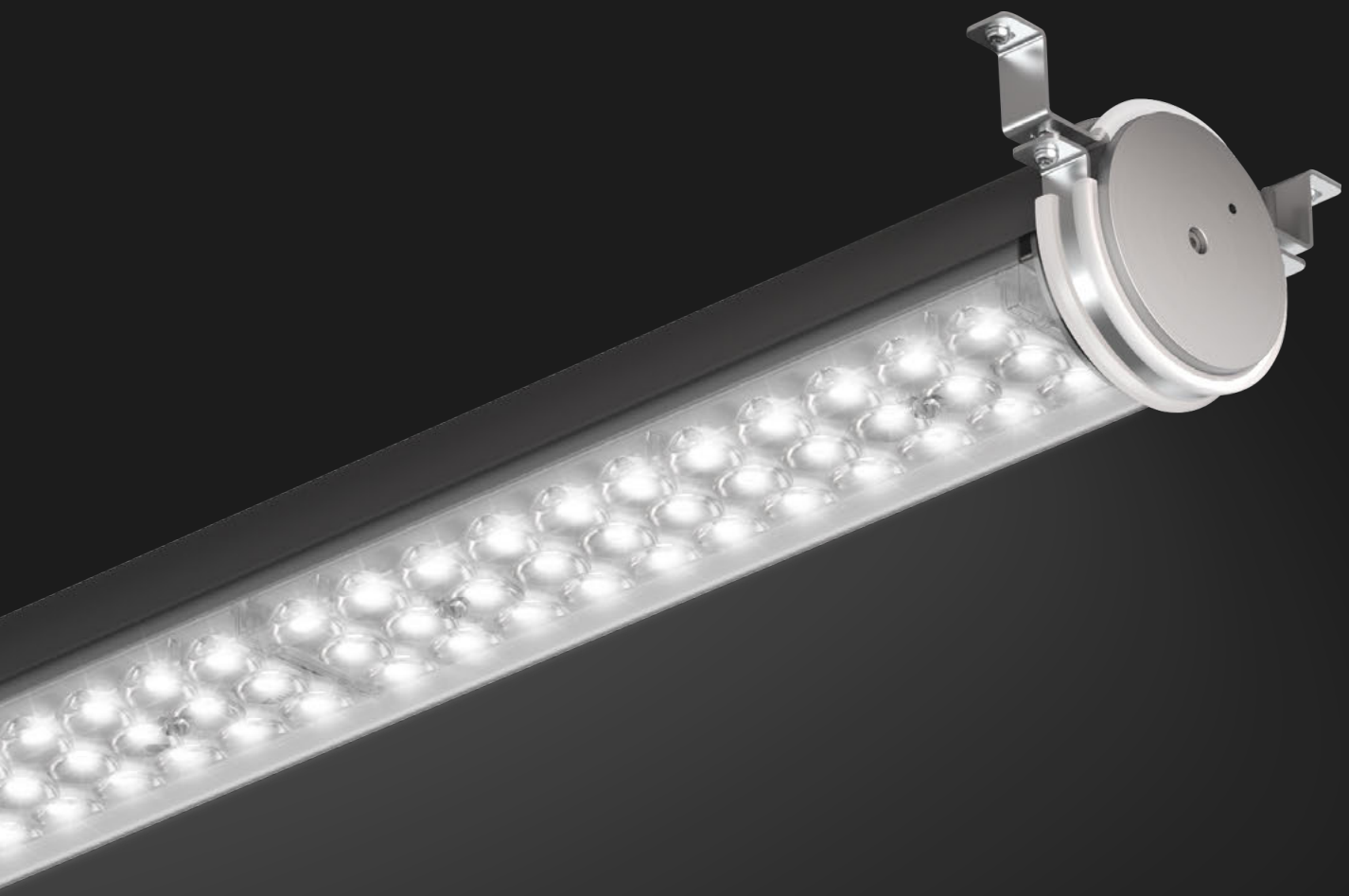
Kit of 6 snap hooks clips for for attaching the chain luminaire by means of a double Y-suspension, galvanised steel.



Code	Item
A01006 NEW	Cable gland reducer ø7-9mm for CR 3P The pack contains 10 pieces.
A01007 NEW	Cable gland reducer ø13-17mm for CR 5P The pack contains 10 pieces.

A01006 compatible with ON/OFF, SENSEHBZQ e SENSEMBZQ versions, reduces the power line input from ø9-13mm to ø7-9mm. A01007 compatible with EP e D2D versions, increases the power line input from ø9-13mm to ø13-17mm.


020
020



/ 3F Tank

3F Tank: the light fixture that excels in delivering maximum safety while providing quality light in high-risk work environments.

The state-of-the-art LED sources are protected by a polycarbonate cylinder that ensures maximum protection from dust, water and impact.

This fixture is the ultimate answer for those looking for the safest lighting solution for more challenging industrial contexts thanks to its IK10 maximum mechanical resistance and IP69K (IP66 ATEX applications) protection rating, that makes it suitable for contexts where equipment is cleaned intensely with high-pressure water or steam.



In short: **Perfect.**

To achieve exceptional performance, meticulous attention to every detail is paramount.

3F Tank is meticulously engineered to minimise the number of components used, ensuring the highest quality and performance of each, all encapsulated within a sleek geometric shape: a cylinder.

Made from co-extruded polycarbonate, the body of the light fixture seamlessly integrates an opal section with a highly transparent part, housing the technological core composed of a high-performance driver and state-of-the-art LED boards.

This system is hermetically sealed by two die-cast 6082-T6 aluminium end caps, fitted with gaskets to ensure an impeccable seal.

Every aspect has been meticulously addressed: the stainless steel installation screws and brackets prevent oxidation and wear over time.

3F Tank is more than merely a lighting product: it embodies the epitome of perfect functionality and minimalist design, a testament to our unwavering commitment to excellence in every facet.

3F Tank in its Rock version meets the stringent requirements of the two EU ATEX directives governing devices designed for use in environments with explosive atmospheres, guaranteeing the safety of personnel who operate in these critical conditions. ATEX stands for “ATmosphere EXplosive”.

These pages highlight the application areas where 3F Tank Rock stands out, showcasing its outstanding technical specifications (compliant with **zones 2 and 22, according to ENEC certification**).



Ice Extreme version for temperatures from -30°C up to +40°C with a relative humidity of up to 95%.



Rock version for use in ATEX explosive atmosphere environments (Gas and Dust).

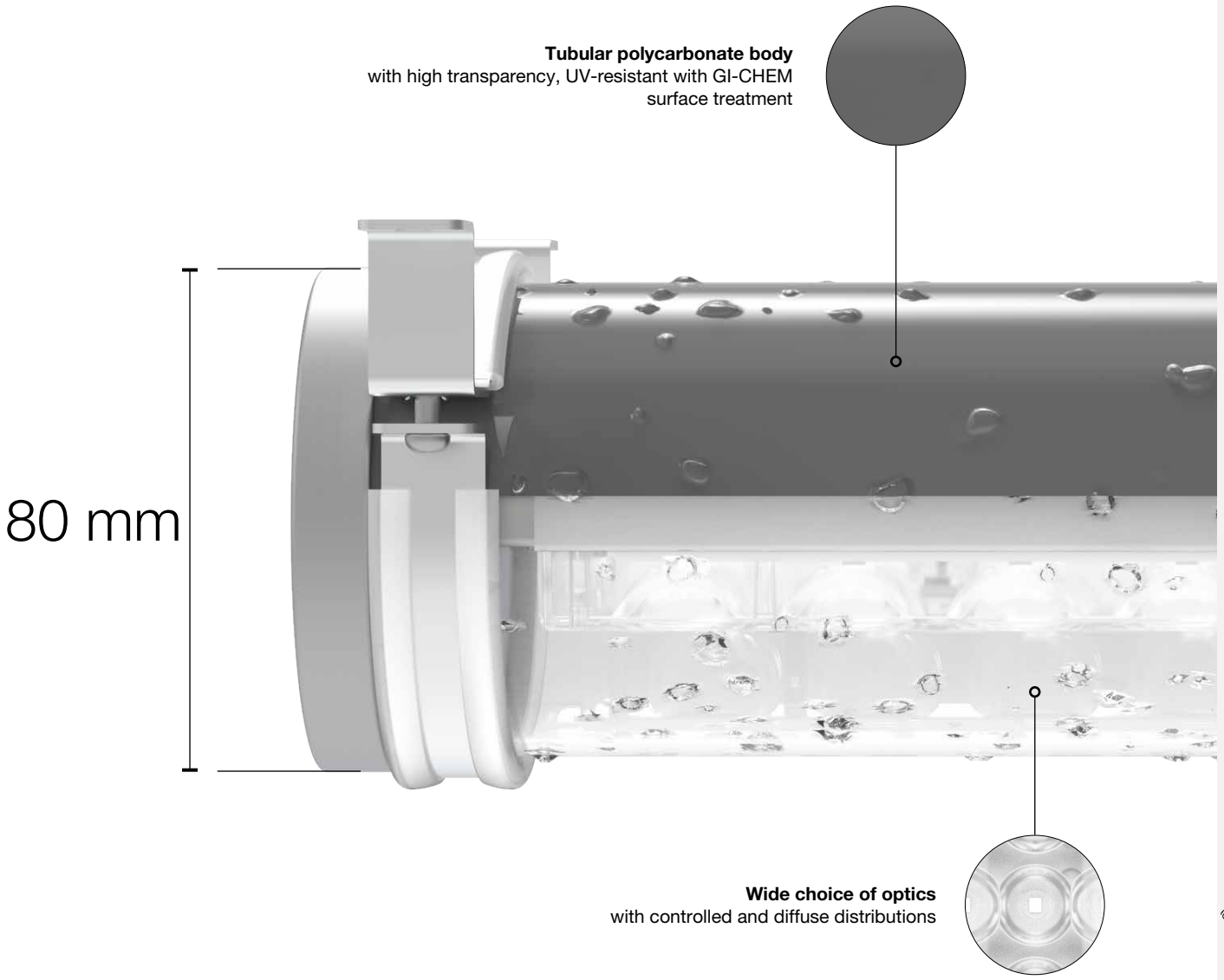


On request: suitable for outdoor installation, UV-resistant.



Compliant with food industry standards, including HACCP, IFS, BRC Standard.

Tubular polycarbonate body
with high transparency, UV-resistant with GI-CHEM surface treatment

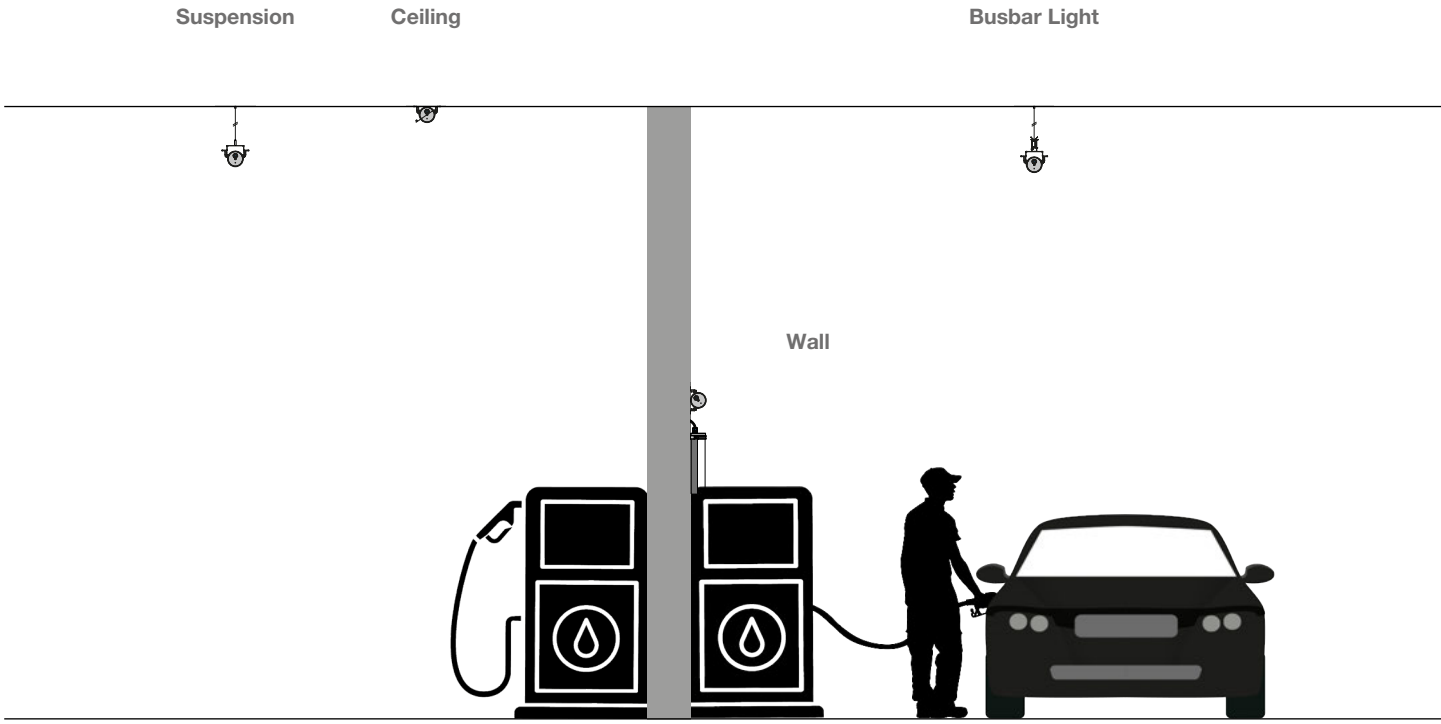


Wide choice of optics
with controlled and diffuse distributions

Resistant to aggressive chemicals (HS finish).

Resistant in marine environments and railway structures.

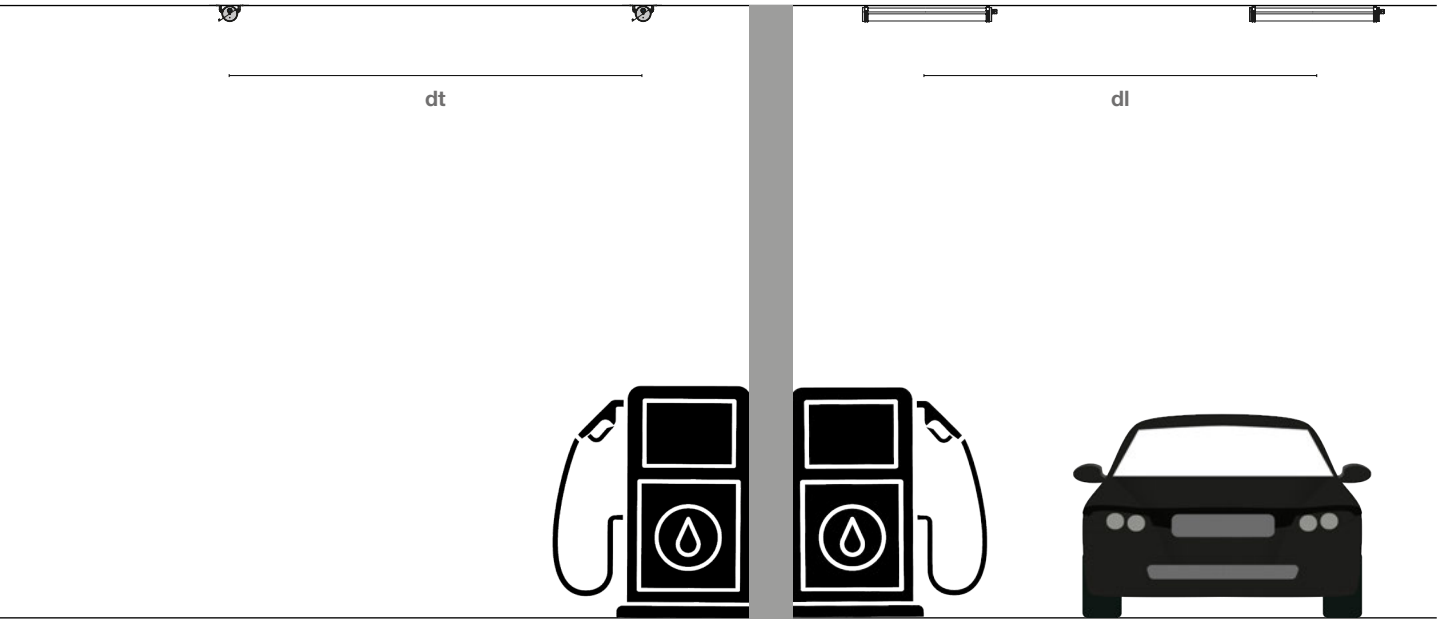
Protection rating IP69K, resistant to high pressure and/or steam.



Range

3F Tank

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x Ø
3F Tank ATEX Rock Lite	20 - 46	2866 - 6900	/840 /865	ON/OFF DALI	Lite	1,29 x 1,22	676 x 80 1264 x 80 1558 x 80
3F Tank ATEX Rock Wide	14,5 - 74	1856 - 10846	/840 /865	ON/OFF DALI	Wide	1,16 x 1,18	676 x 80 1264 x 80 1558 x 80 1852 x 80
3F Tank ATEX Rock Medium	14,5 - 74	1847 - 10796	/840 /865	ON/OFF DALI	Medium	1,20 x 1,19	676 x 80 1264 x 80 1558 x 80 1852 x 80
3F Tank ATEX Rock Concentrated	14,5 - 74	1871 - 10935	/840 /865	ON/OFF DALI	Concentrated	0,57 x 1,14	676 x 80 1264 x 80 1558 x 80 1852 x 80
3F Tank ATEX Rock UGR	14,5 - 74	1880 - 10985	/840 /865	ON/OFF DALI	UGR	1,47 x 1,36	676 x 80 1264 x 80 1558 x 80 1852 x 80



Range

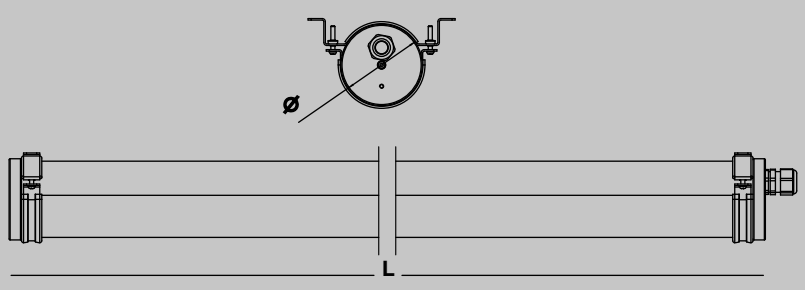
3F Tank

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x Ø
3F Tank ICE Extreme Wide	49 - 72	7231 - 10846	/840	ON/OFF	Wide	1,16 x 1,18	1264 x 80 1558 x 80 1852 x 80
3F Tank ICE Extreme Medium	49 - 72	7197 - 10796	/840	ON/OFF	Medium	1,20 x 1,19	1264 x 80 1558 x 80 1852 x 80
3F Tank ICE Extreme UGR	49 - 72	7037 - 10556	/840	ON/OFF	UGR	1,47 x 1,36	1264 x 80 1558 x 80 1852 x 80
3F Tank ICE Extreme Concentrated	49 - 72	7290 - 10935	/840	ON/OFF	Concentrated	0,57 x 1,14	1264 x 80 1558 x 80 1852 x 80

NEW

/ Waterproof and corrosion-proof







3F Tank ATEX Rock

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Lifetime (L85/B10): 50000 h. (tq+40°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

High thickness tubular body in high transparency polycarbonate surface treatment, which guarantees resistance to aggressive chemical agents.
Die-cast aluminium end caps, painted in grey polyester.
Sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Fixing brackets and screws in AISI 316 stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Quick connection via M20x1.5 cable gland in fibreglass reinforced polyamide with 2m H07RN-F 3/5G1.5mm² cable exiting from the head and truncated end.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Environments with ATEX explosive atmosphere (Conformity 2014/34/UE, EN IEC 60079-0, EN 60079-15, EN 60079-31): Group II, Category 3D (Ex Tc IIIC T85°C Dc) and Category 3G (Ex nR IIC T6 Gc).
Severe Industrial Environments, food and agri-food industries, scientific and food processing laboratories, environments with high humidity, swimming pools, railway, aeronautical and port applications.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Cells with temperature from -20°C to +40°C with a humidity degree up to 95%.
Body resistant to the following substances: Ethyl alcohol (24 hours at 20°C), aqueous detergents, hydrochloric acid (produces a slight halo), DOT4 brake oil, sulfuric acid (produces a slight halo), ammonia.
When using this data, remember that it is the result of laboratory tests, and therefore valid only under those test conditions: the data is to be considered approximate and, in the absence of practical experience, it is advisable to carry out tests under actual operating conditions.
Temperature and concentration of the chemical agent can affect materials and influence LED technology.
For applications in environments in which disturbances on the power network may be present and/or involve use at low temperatures, surge protection devices should be fitted on the power supply and any causes of undervoltages eliminated.
For specific applications please contact our technical offices.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

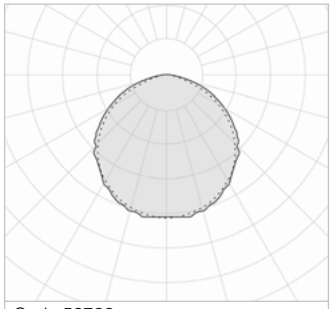
ON REQUEST

- different light distributions
- different colour rendering indices and colour temperatures

3F Tank ATEX Rock Lite

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 56738

Diffuse distribution.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56736 NEW	3F Tank Rock Lite 2x9W/840 L675	20	2866	4000	>80	676x80
56737 NEW	3F Tank Rock Lite 2x18W/840 L1265	39	5594	4000	>80	1264x80
56738 NEW	3F Tank Rock Lite 2x22W/840 L1560	46	6900	4000	>80	1558x80
56742 NEW	3F Tank Rock Lite 2x9W/865 L675	20	2866	6500	>80	676x80
56743 NEW	3F Tank Rock Lite 2x18W/865 L1265	39	5594	6500	>80	1264x80
56744 NEW	3F Tank Rock Lite 2x22W/865 L1560	46	6900	6500	>80	1558x80

DALI electronic wiring 230V-50/60Hz

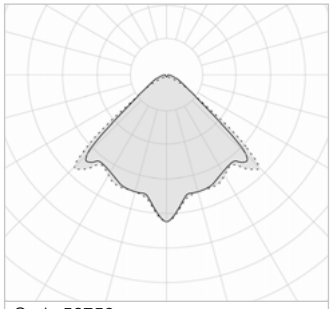
Code	Item	W	lm	K	CRI	L x ø
56739 NEW	3F Tank Rock Lite 2x9W/840 DALI L675	20	2866	4000	>80	676x80
56740 NEW	3F Tank Rock Lite 2x18W/840 DALI L1265	39	5594	4000	>80	1264x80
56741 NEW	3F Tank Rock Lite 2x22W/840 DALI L1560	46	6900	4000	>80	1558x80
56745 NEW	3F Tank Rock Lite 2x9W/865 DALI L675	20	2866	6500	>80	676x80
56746 NEW	3F Tank Rock Lite 2x18W/865 DALI L1265	39	5594	6500	>80	1264x80
56747 NEW	3F Tank Rock Lite 2x22W/865 DALI L1560	46	6900	6500	>80	1558x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Tank ATEX Rock Wide

850°C | IP66 | 20J | IK10 | HACCP





Code 56750

Wide distribution.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56748 NEW	3F Tank Rock 13W/840 WIDE L675	14.5	2173	4000	>80	676x80
56749 NEW	3F Tank Rock 45W/840 WIDE L1265	49	7231	4000	>80	1264x80
56750 NEW	3F Tank Rock 55W/840 WIDE L1560	62	9039	4000	>80	1558x80
56751 NEW	3F Tank Rock 70W/840 WIDE L1850	72	10846	4000	>80	1852x80
56756 NEW	3F Tank Rock 13W/865 WIDE L675	15	1856	6500	>80	676x80
56757 NEW	3F Tank Rock 45W/865 WIDE L1265	50	6459	6500	>80	1264x80
56758 NEW	3F Tank Rock 55W/865 WIDE L1560	62	8073	6500	>80	1558x80
56759 NEW	3F Tank Rock 70W/865 WIDE L1850	74	9688	6500	>80	1852x80

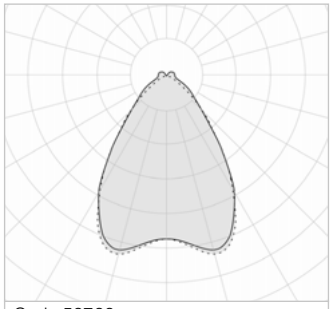
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56752 NEW	3F Tank Rock 13W/840 DALI WIDE L675	14.5	2173	4000	>80	676x80
56753 NEW	3F Tank Rock 45W/840 DALI WIDE L1265	49	7231	4000	>80	1264x80
56754 NEW	3F Tank Rock 55W/840 DALI WIDE L1560	60	9039	4000	>80	1558x80
56755 NEW	3F Tank Rock 70W/840 DALI WIDE L1850	72	10846	4000	>80	1852x80
56760 NEW	3F Tank Rock 13W/865 DALI WIDE L675	15	1856	6500	>80	676x80
56761 NEW	3F Tank Rock 45W/865 DALI WIDE L1265	50	6459	6500	>80	1264x80
56762 NEW	3F Tank Rock 55W/865 DALI WIDE L1560	62	8073	6500	>80	1558x80
56763 NEW	3F Tank Rock 70W/865 DALI WIDE L1850	74	9688	6500	>80	1852x80

3F Tank ATEX Rock Medium

850°C | IP66 | 20J | IK10 | HACCP





Code 56766

Medium distribution.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56764 NEW	3F Tank Rock 13W/840 MEDIUM L675	14.5	2163	4000	>80	676x80
56765 NEW	3F Tank Rock 45W/840 MEDIUM L1265	49	7197	4000	>80	1264x80
56766 NEW	3F Tank Rock 55W/840 MEDIUM L1560	62	8997	4000	>80	1558x80
56767 NEW	3F Tank Rock 70W/840 MEDIUM L1850	72	10796	4000	>80	1852x80
56772 NEW	3F Tank Rock 13W/865 MEDIUM L675	15	1847	6500	>80	676x80
56773 NEW	3F Tank Rock 45W/865 MEDIUM L1265	50	6429	6500	>80	1264x80
56774 NEW	3F Tank Rock 55W/865 MEDIUM L1560	62	8035	6500	>80	1558x80
56775 NEW	3F Tank Rock 70W/865 MEDIUM L1850	74	9643	6500	>80	1852x80

DALI electronic wiring 230V-50/60Hz

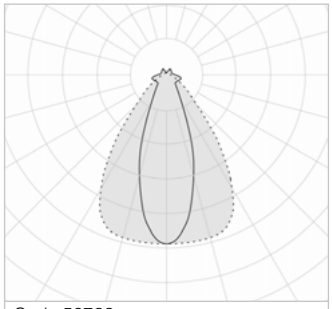
Code	Item	W	lm	K	CRI	L x ø
56768 NEW	3F Tank Rock 13W/840 DALI MEDIUM L675	14.5	2163	4000	>80	676x80
56769 NEW	3F Tank Rock 45W/840 DALI MEDIUM L1265	49	7197	4000	>80	1264x80
56770 NEW	3F Tank Rock 55W/840 DALI MEDIUM L1560	60	8997	4000	>80	1558x80
56771 NEW	3F Tank Rock 70W/840 DALI MEDIUM L1850	72	10796	4000	>80	1852x80
56776 NEW	3F Tank Rock 13W/865 DALI MEDIUM L675	15	1847	6500	>80	676x80
56777 NEW	3F Tank Rock 45W/865 DALI MEDIUM L1265	50	6429	6500	>80	1264x80
56778 NEW	3F Tank Rock 55W/865 DALI MEDIUM L1560	62	8035	6500	>80	1558x80
56779 NEW	3F Tank Rock 70W/865 DALI MEDIUM L1850	74	9643	6500	>80	1852x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Tank ATEX Rock Concentrated

850°C | IP66 | 20J | IK10 | HACCP





Code 56782

Concentrated distribution.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56780 NEW	3F Tank Rock 13W/840 CONC L675	14.5	2191	4000	>80	676x80
56781 NEW	3F Tank Rock 45W/840 CONC L1265	49	7290	4000	>80	1264x80
56782 NEW	3F Tank Rock 55W/840 CONC L1560	62	9112	4000	>80	1558x80
56783 NEW	3F Tank Rock 70W/840 CONC L1850	72	10935	4000	>80	1852x80
56788 NEW	3F Tank Rock 13W/865 CONC L675	15	1871	6500	>80	676x80
56789 NEW	3F Tank Rock 45W/865 CONC L1265	50	6511	6500	>80	1264x80
56790 NEW	3F Tank Rock 55W/865 CONC L1560	62	8139	6500	>80	1558x80
56791 NEW	3F Tank Rock 70W/865 CONC L1850	74	9767	6500	>80	1852x80

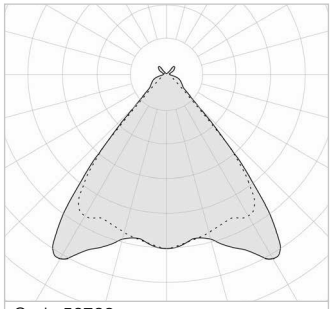
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56784 NEW	3F Tank Rock 13W/840 DALI CONC L675	14.5	2191	4000	>80	676x80
56785 NEW	3F Tank Rock 45W/840 DALI CONC L1265	49	7290	4000	>80	1264x80
56786 NEW	3F Tank Rock 55W/840 DALI CONC L1560	60	9112	4000	>80	1558x80
56787 NEW	3F Tank Rock 70W/840 DALI CONC L1850	72	10935	4000	>80	1852x80
56792 NEW	3F Tank Rock 13W/865 DALI CONC L675	15	1871	6500	>80	676x80
56793 NEW	3F Tank Rock 45W/865 DALI CONC L1265	50	6511	6500	>80	1264x80
56794 NEW	3F Tank Rock 55W/865 DALI CONC L1560	62	8139	6500	>80	1558x80
56795 NEW	3F Tank Rock 70W/865 DALI CONC L1850	74	9767	6500	>80	1852x80

3F Tank ATEX Rock UGR

850°C | IP66 | 20J | IK10 | HACCP





Code 56798

Controlled distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
56796 NEW	3F Tank Rock 13W/840 UGR L675	14.5	2201	4000	>80	676x80
56797 NEW	3F Tank Rock 45W/840 UGR L1265	49	7323	4000	>80	1264x80
56798 NEW	3F Tank Rock 55W/840 UGR L1560	62	9154	4000	>80	1558x80
56799 NEW	3F Tank Rock 70W/840 UGR L1850	72	10985	4000	>80	1852x80
56804 NEW	3F Tank Rock 13W/865 UGR L675	15	1880	6500	>80	676x80
56805 NEW	3F Tank Rock 45W/865 UGR L1265	50	6541	6500	>80	1264x80
56806 NEW	3F Tank Rock 55W/865 UGR L1560	62	8176	6500	>80	1558x80
56807 NEW	3F Tank Rock 70W/865 UGR L1850	74	9812	6500	>80	1852x80

DALI electronic wiring 230V-50/60Hz

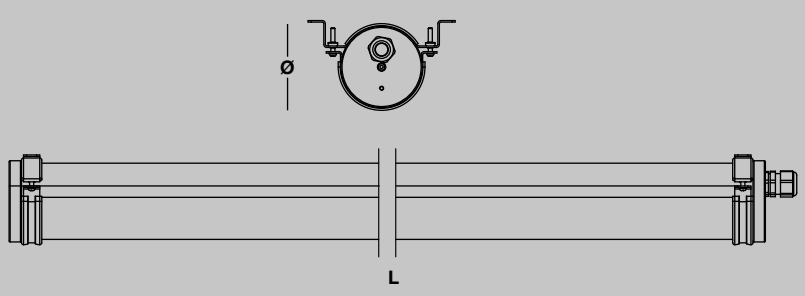
Code	Item	W	lm	K	CRI	L x ø
56800 NEW	3F Tank Rock 13W/840 DALI UGR L675	14.5	2201	4000	>80	676x80
56801 NEW	3F Tank Rock 45W/840 DALI UGR L1265	49	7323	4000	>80	1264x80
56802 NEW	3F Tank Rock 55W/840 DALI UGR L1560	60	9154	4000	>80	1558x80
56803 NEW	3F Tank Rock 70W/840 DALI UGR L1850	72	10985	4000	>80	1852x80
56808 NEW	3F Tank Rock 13W/865 DALI UGR L675	15	1880	6500	>80	676x80
56809 NEW	3F Tank Rock 45W/865 DALI UGR L1265	50	6541	6500	>80	1264x80
56810 NEW	3F Tank Rock 55W/865 DALI UGR L1560	62	8176	6500	>80	1558x80
56811 NEW	3F Tank Rock 70W/865 DALI UGR L1850	74	9812	6500	>80	1852x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


NP.302
NP.272

/ Waterproof and corrosion-proof







3F Tank ICE Extreme

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Luminous flux at -30°C: +7%.
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

High thickness tubular body in high transparency polycarbonate surface treatment, which guarantees resistance to aggressive chemical agents.
Die-cast aluminium end caps, painted in grey polyester.
Sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Fixing brackets and screws in AISI 316 stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via M20x1.5 cable gland in fibreglass reinforced polyamide with 2m H07RN-F 3/5G1.5mm² cable.

INSTALLATION

Ceiling, suspension or wall installation.

APPLICATIONS

Cells with temperature from -30°C to +40°C with a humidity degree up to 95%.
Before installation, we recommend checking that there are no contraindications to the use of and polycarbonate inside the refrigerating room.
For applications in environments in which disturbances on the power network may be present and/or involve use at low temperatures, surge protection devices should be fitted on the power supply and any causes of undervoltages eliminated.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
For specific applications please contact our technical offices.

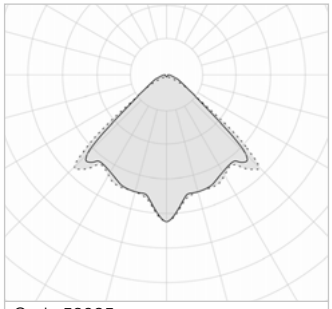
ON REQUEST

- different light distributions
- different power levels, colour rendering indices and colour temperatures
- UV Resistant versions

3F Tank ICE Extreme Wide

CE | SAFE FLICKER | 850°C | IP69K | 20J | IK10 | HACCP





Code 52095

Wide distribution.
Methacrylate (PMMA) lenses with external flat surface.

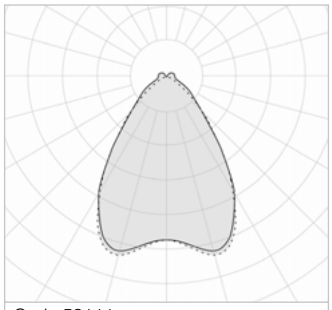
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
52094	3F Tank ICE XT 45W/840 WIDE L1265	49	7231	4000	>80	1264x80
52095	3F Tank ICE XT 55W/840 WIDE L1560	62	9039	4000	>80	1558x80
52096	3F Tank ICE XT 70W/840 WIDE L1850	72	10846	4000	>80	1852x80

3F Tank ICE Extreme Medium

CE | SAFE FLICKER | 850°C | IP69K | 20J | IK10 | HACCP





Code 52111

Medium distribution.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

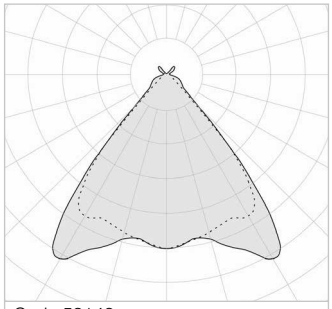
Code	Item	W	lm	K	CRI	L x ø
52110	3F Tank ICE XT 45W/840 MEDIUM L1265	49	7197	4000	>80	1264x80
52111	3F Tank ICE XT 55W/840 MEDIUM L1560	62	8997	4000	>80	1558x80
52112	3F Tank ICE XT 70W/840 MEDIUM L1850	72	10796	4000	>80	1852x80

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Tank ICE Extreme UGR

850°C IP69K 20J IK10 HACCP





Code 52143

Controlled distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Methacrylate (PMMA) lenses with external flat surface.

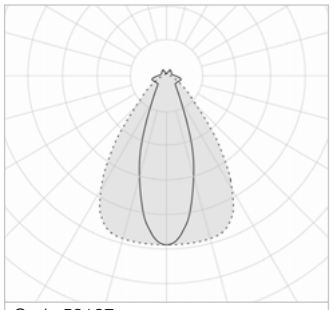
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
52142	3F Tank ICE XT 45W/840 UGR L1265	49	7037	4000	>80	1264x80
52143	3F Tank ICE XT 55W/840 UGR L1560	62	8797	4000	>80	1558x80
52144	3F Tank ICE XT 70W/840 UGR L1850	72	10556	4000	>80	1852x80

3F Tank ICE Extreme Concentrated

850°C IP69K 20J IK10 HACCP





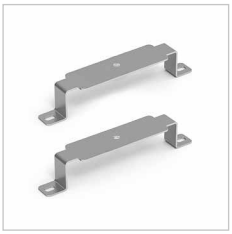
Code 52127

Concentrated distribution.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x ø
52126	3F Tank ICE XT 45W/840 CONC L1265	49	7290	4000	>80	1264x80
52127	3F Tank ICE XT 55W/840 CONC L1560	62	9112	4000	>80	1558x80
52128	3F Tank ICE XT 70W/840 CONC L1850	72	10935	4000	>80	1852x80

3F Tank | Accessories



Code	Item
A0305	Pair of suspension brackets

Pair of AISI 316 stainless steel brackets for suspended installation.



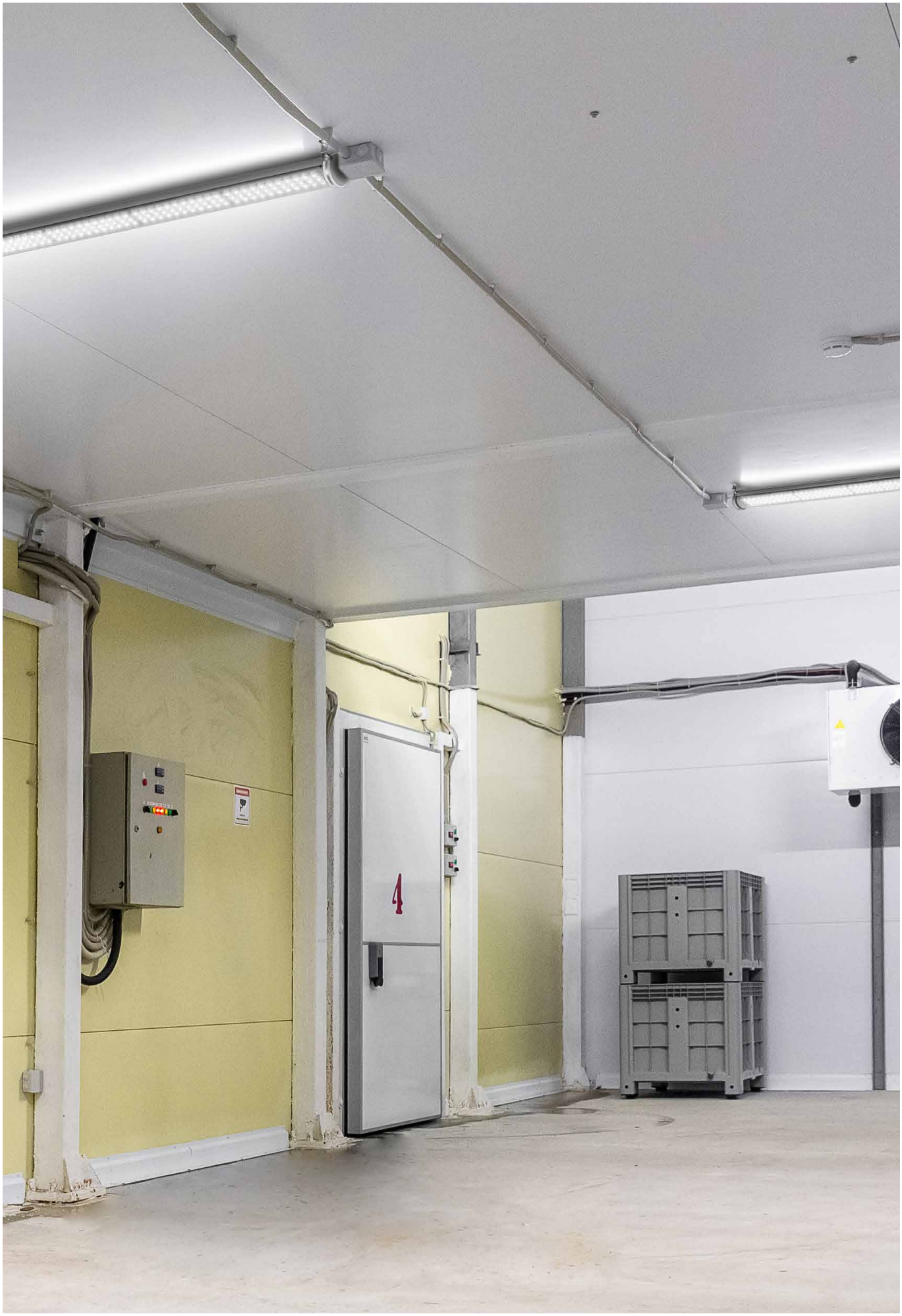
Code	Item
A0835	Pair brack.+hooks for wall

Pair of mounting brackets and hooks for wall-mounting, with nuts and bolts for luminaire fastening, everything in stainless steel.



Code	Item
A0660	Suspension with adjustment - 1m
A0661	Suspension with adjustment - 2 m
A0662	Suspension with adjustment - 3 m
A0663	Suspension with adjustment - 4 m
A0664	Suspension with adjustment - 5 m
A0665	Suspension with adjustment - 6 m

Suspension with regulator, galvanised steel cable 1.5 mm diameter, load 15 kg.
Attention: each product requires two suspensions with regulator.


4


A
3

/ Beta 500

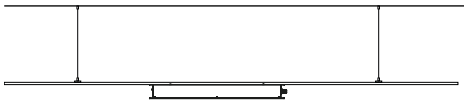
Beta 500 is an extremely functional product that makes solidity and power its strengths: it is the result of 3F Filippi's many years of experience in the industry.

Thanks to its high degree of protection IP66, it is totally protected against dust and powerful water jets: its shape facilitates cleaning operations and this makes it suitable for many areas of application, including food and pharmaceuticals sectors.

Product reliability has been taken care of down to the smallest detail: to obtain correct thermal management and guarantee the quality of light for many years, our designers have combined a sturdy aluminium body and a frame made of stainless steel to house first-class LEDs and drivers.



Beta 500
Porsche Erre Esse
Turin, Italy



Bus bar



Ceiling



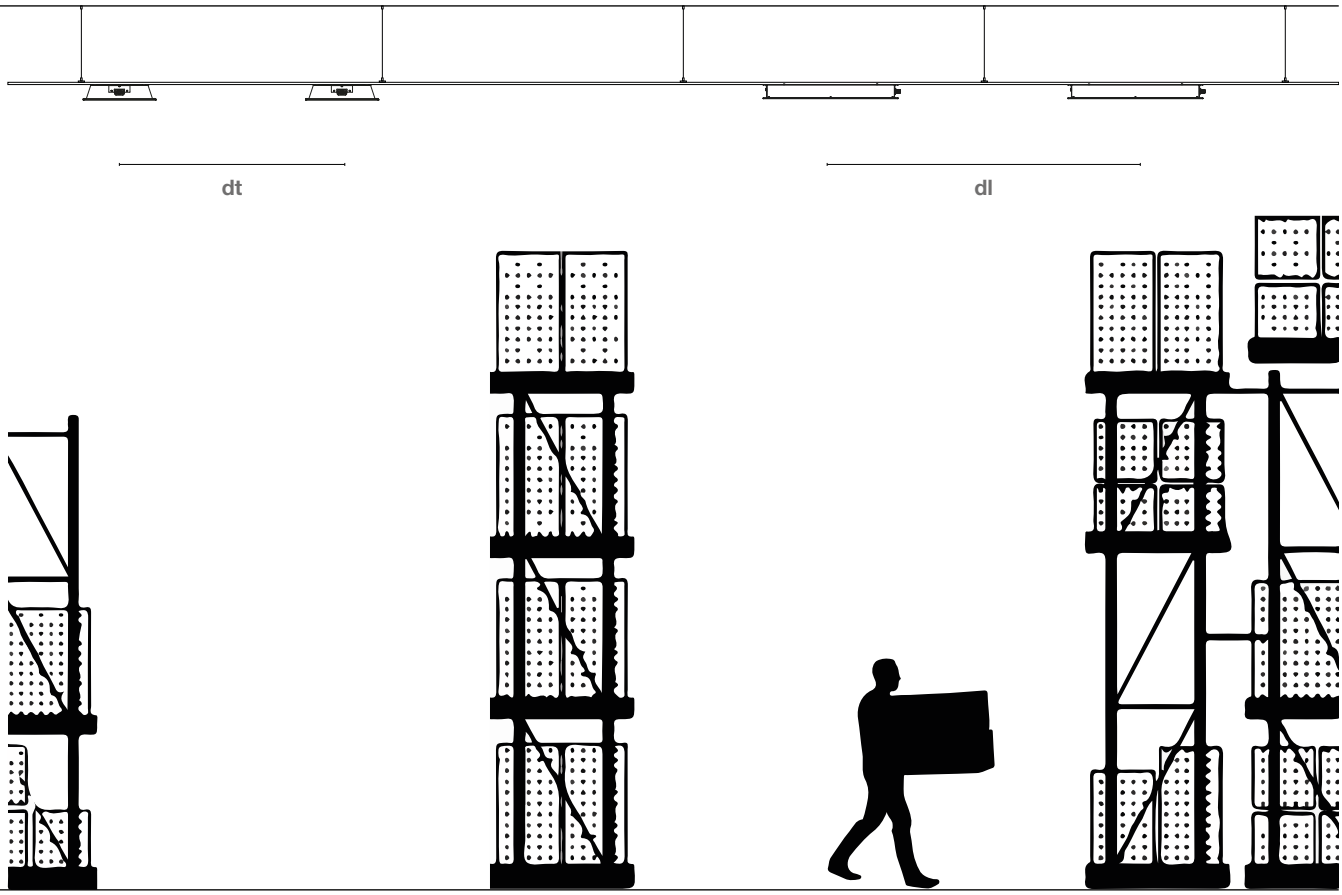
Suspended



Range

Beta 500

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
Beta 500 SP	162 - 298	25755 - 46720	/840	ON/OFF DALI	Medium	1,25 x 1,25	870 x 515 x 105 1230 x 475 x 130
Beta 500 VA	162 - 298	26733 - 47690	/840	ON/OFF DALI	Medium	1,25 x 1,25	870 x 515 x 105 1230 x 475 x 130



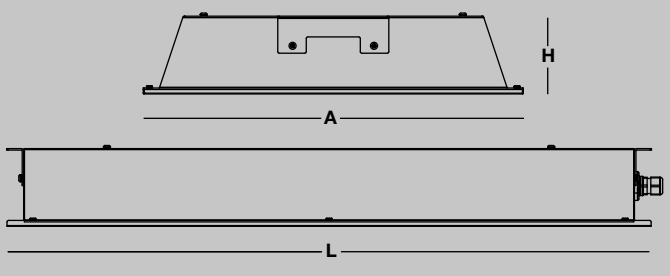
Range

Beta 500

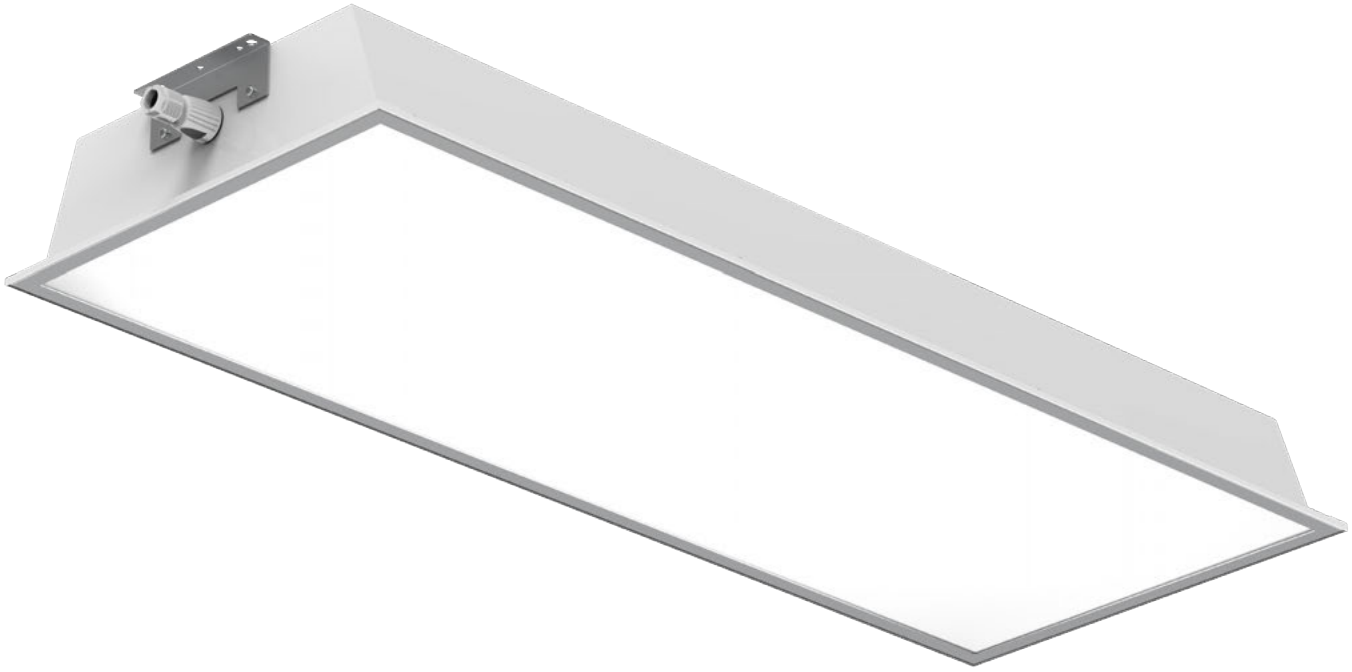
	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
Beta 500 SL Concentrated	162 - 298	26336 - 47576	/840	ON/OFF DALI	Concentrated	0,75 x 0,75	870 x 515 x 105 1230 x 475 x 130
Beta 500 VT Concentrated	162 - 298	26336 - 47576	/840	ON/OFF DALI	Concentrated	0,75 x 0,75	870 x 515 x 105 1230 x 475 x 130

/ Waterproof and corrosion-proof





Erre Esse Porsche
Torino
Italia/Italy



Beta 500

ILLUMINOTECHNICAL

Direct symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in white painted epoxy-polyester powder aluminium.
White aluminium non-iridescent high efficiency.
Perimetrical frame in stainless steel with vandal-proof opening and stainless steel nuts and bolts.
Polyurethane foam seal, ecological, anti-aging, installed using a continuous automatic process with no joints.
Fixing bracket in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.
ON/OFF electronic wiring: twin-circuit for 200W and 300W versions.

INSTALLATION

Ceiling mounted, suspension or busway installation.

APPLICATIONS

Ambient temperature from -20°C to +45°C.
Commercial and industrial environments and warehouses.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

NOTES

HST glass
HST glass is composed of a tempered glass sheet which has undergone a thermal stabilisation process (Heat Soak Test) which reduces the risk of spontaneous breakage caused by nickel-sulfide inclusions inside the glass.
It is not immune from harmless falling fragments, caused byshocks or, exceptionally, derived from the tempering process.
It is the user's responsibility to identify the most suitable type of diffuser for the application type.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

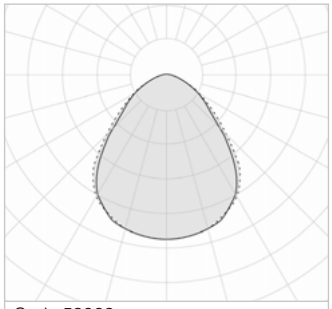
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- transparent or frosted polycarbonate diffuser, laminated glass
- wiring: dimmable, CLO (page 662), single-circuit
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- versions with anti-condensation filter
- emergency versions

Beta 500 SP

CE | SAFE FLICKER | D | 850°C | IP66 | 2J | IK07 | HACCP





Code 52002

Medium distribution.
SP transparent methacrylate (PMMA) diffuser, prismatic outside, antiglare.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52056	Beta 500 150W/840 SP L870	162	25040	4000	>80	870x515x105
52002	Beta 500 200W/840 SP L870	198	30534	4000	>80	870x515x105
52003	Beta 500 300W/840 SP L1230	298	45194	4000	>80	1230x475x130

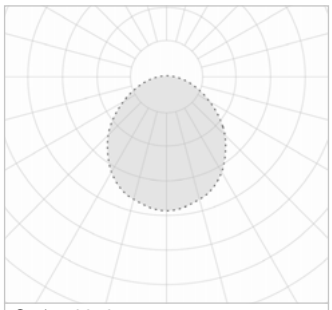
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52057	Beta 500 150W/840 DALI SP L870	162	25040	4000	>80	870x515x105
52005	Beta 500 200W/840 DALI SP L870	198	30534	4000	>80	870x515x105
52006	Beta 500 300W/840 DALI SP L1230	298	45194	4000	>80	1230x475x130

Beta 500 VA

CE | SAFE FLICKER | D | 960°C | IP66 | 5J | IK08





Code 52050

Medium distribution.
Frosted glass HST tempered, non-combustible.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52072	Beta 500 150W/840 VA L870	162	25990	4000	>80	870x515x105
52050	Beta 500 200W/840 VA L870	198	32079	4000	>80	870x515x105
52051	Beta 500 300W/840 VA L1230	298	46132	4000	>80	1230x475x130

DALI electronic wiring 230V-50/60Hz

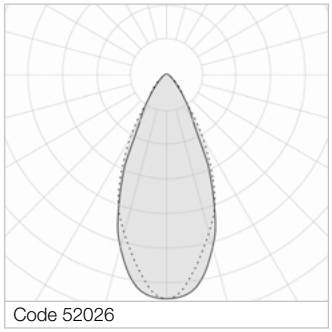
Code	Item	W	lm	K	CRI	L x A x H
52073	Beta 500 150W/840 DALI VA L870	162	25990	4000	>80	870x515x105
52053	Beta 500 200W/840 DALI VA L870	198	32079	4000	>80	870x515x105
52054	Beta 500 300W/840 DALI VA L1230	298	46132	4000	>80	1230x475x130

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 500 SL Concentrated

CE | SAFER FLICKER | D | 850°C | IP66 | 2J | IK07 | HACCP





Code 52026

Concentrated distribution.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
SL transparent methacrylate (PMMA) flat diffuser.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52064	Beta 500 150W/840 CONC SL L870	162	25604	4000	>80	870x515x105
52026	Beta 500 200W/840 CONC SL L870	198	31159	4000	>80	870x515x105
52027	Beta 500 300W/840 CONC SL L1230	298	46022	4000	>80	1230x475x130

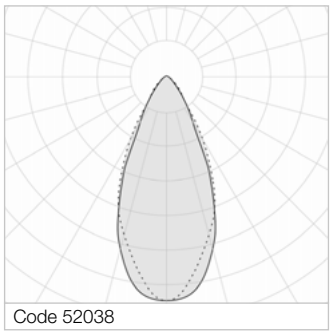
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52065	Beta 500 150W/840 DALI CONC SL L870	162	25604	4000	>80	870x515x105
52029	Beta 500 200W/840 DALI CONC SL L870	198	31159	4000	>80	870x515x105
52030	Beta 500 300W/840 DALI CONC SL L1230	298	46022	4000	>80	1230x475x130

Beta 500 VT Concentrated

CE | SAFER FLICKER | D | 960°C | IP66 | 5J | IK08





Code 52038

Concentrated distribution.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Transparent glass HST tempered, non-combustible.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52068	Beta 500 150W/840 CONC VT L870	162	25604	4000	>80	870x515x105
52038	Beta 500 200W/840 CONC VT L870	198	31159	4000	>80	870x515x105
52039	Beta 500 300W/840 CONC VT L1230	298	46022	4000	>80	1230x475x130

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52069	Beta 500 150W/840 DALI CONC VT L870	162	25604	4000	>80	870x515x105
52041	Beta 500 200W/840 DALI CONC VT L870	198	31159	4000	>80	870x515x105
52042	Beta 500 300W/840 DALI CONC VT L1230	298	46022	4000	>80	1230x475x130

Beta 500 | Accessories



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



Code	Item
A0858	Bracket for central suspension L870
A0859	Bracket for central suspension L1230

Stainless steel brackets for suspended installation.



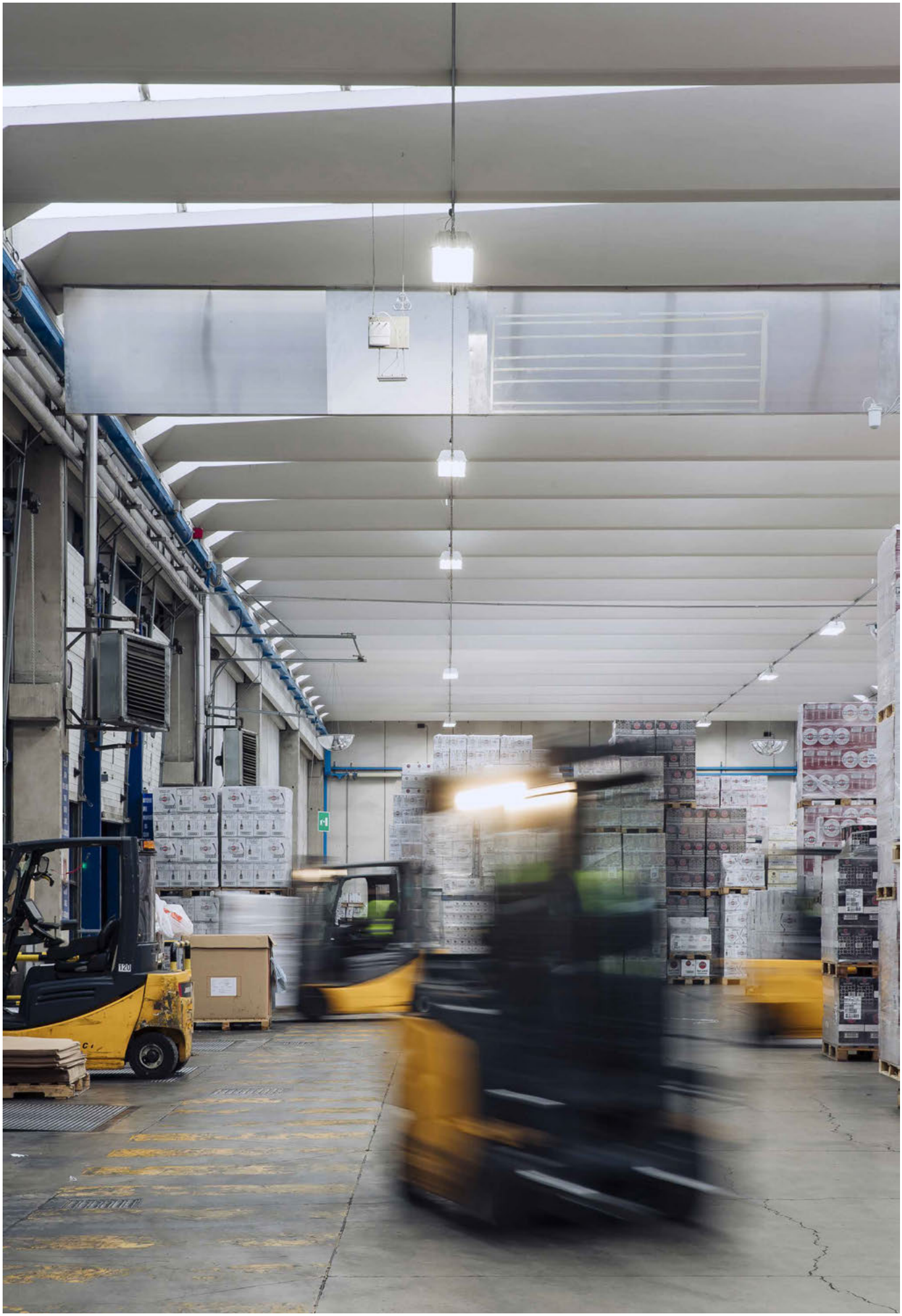
Code	Item
A0860	Adjustable suspension kit 2m

Suspension installation kit consisting of ceiling plate, 2 metre long galvanised steel cables and regulators.



Code	Item
A0861	Pair of brack. ceiling instal. Beta500

Brackets for mounting of luminaire on ceiling.





/ 3F Linda

3F Linda has become famous for its soft and smooth lines, its patented snug fit snap-lock clips, its compact egg-shaped housing (110 millimetres maximum in the case of ceiling installation with brackets), its internal reinforcement structure and its elastic, shatterproof polycarbonate diffuser.

Thanks to its flexibility, it finds applications in residential, commercial and even food industry environments (IFS, HACCP and BRC certification).

3F Linda
FCA assembly line
Mirafiori



Scale 1:1
mm

An egg of **many sizes.**

3F Linda is offered in **2 widths** for each length in the product range.

Both widths are backward compatible with previous fluorescent versions, both in terms of size and accessories.

This makes 3F Linda the perfect solution for **upgrading existing installations**. The product is easy to install thanks to stainless steel fixing brackets that distribute the weight optimally.

These brackets are also slideable to allow for adaptation to the expansion of the luminaire even in environments characterised by temperature fluctuations.

3F Linda is available in **three different lengths** (600, 1200 and 1500 mm) with different power and luminous flux levels, and with both housing widths (100 mm and 160 mm).

3F Linda is unique because of the many **photometric distributions** it can offer.

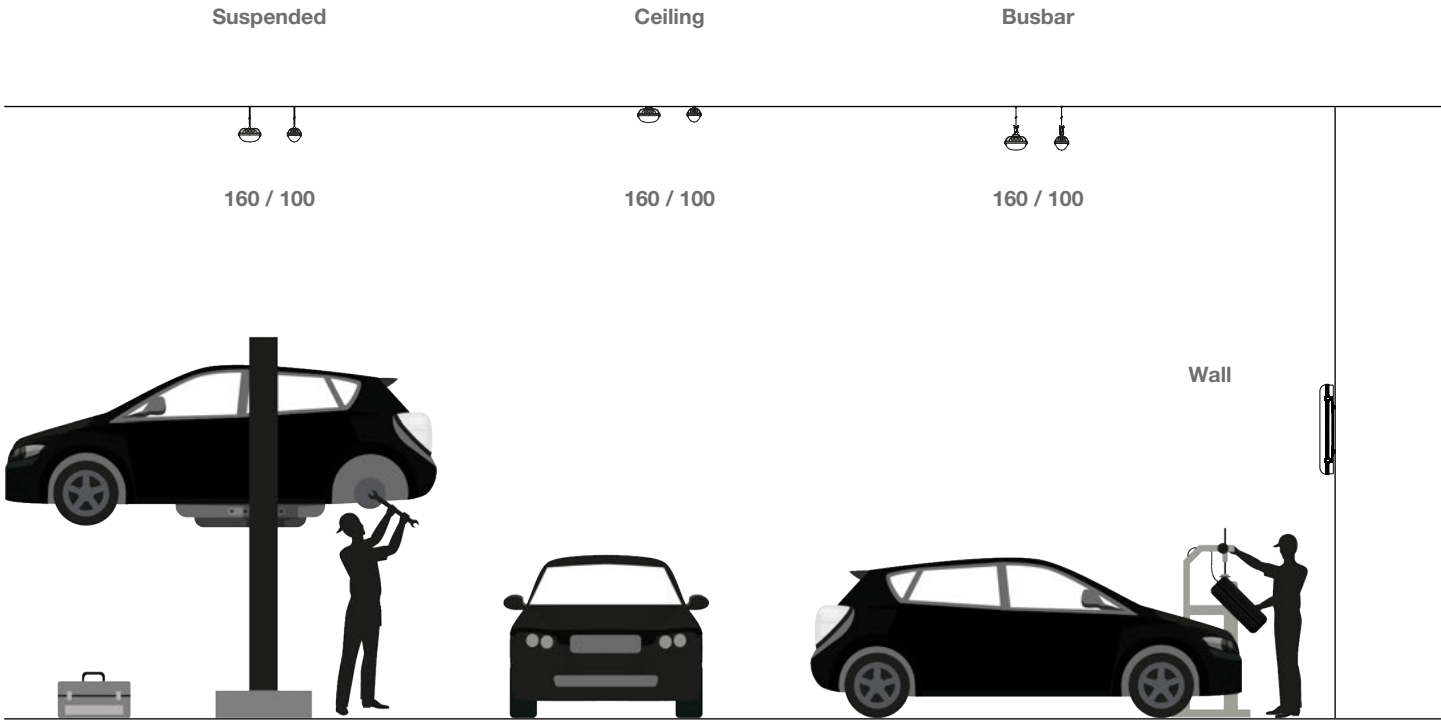
These are shared for both size 100 and size 160 and are designed for installations up to 7 m high.

This variety of lighting solutions makes 3F Linda multi-purpose, versatile and capable of meeting the most specific requirements.



160 mm

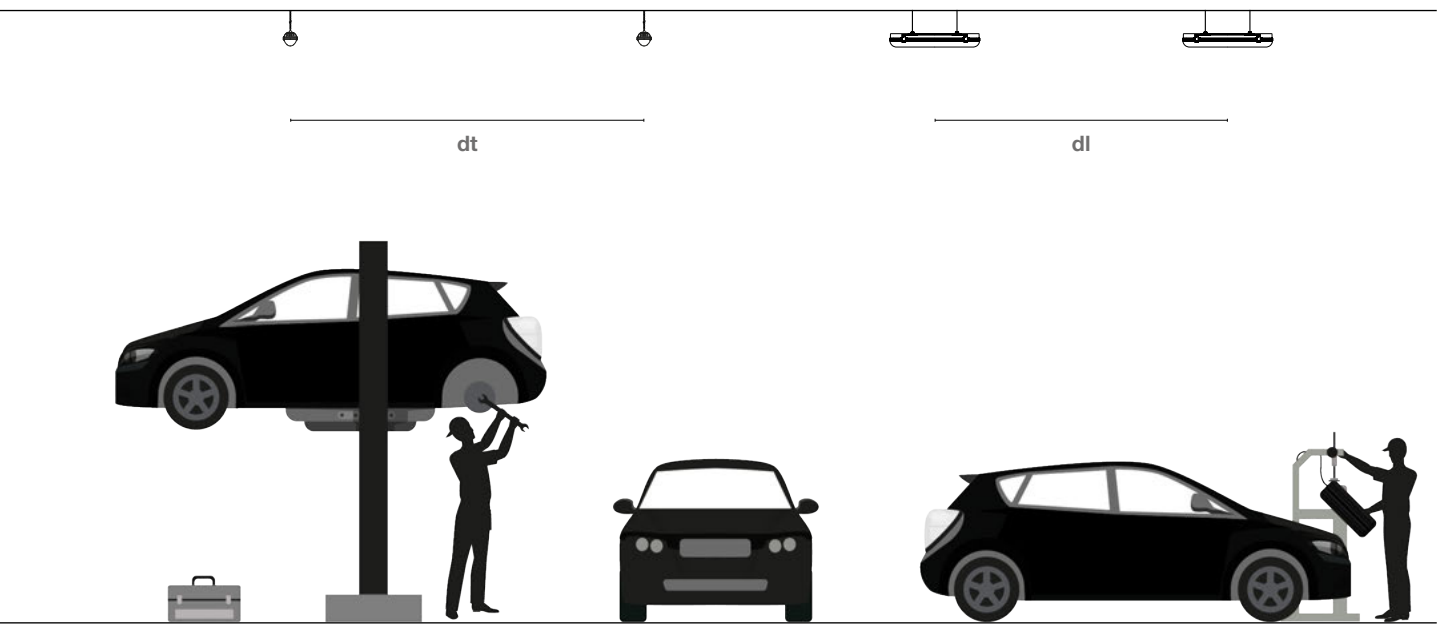




Range

3F Linda

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Linda	7,5 - 67	543 - 9715	/840 /865	ON/OFF DALI EP ENP	Wide	1,77 x 1,17 1,52 x 1,17	660 x 100/160 x 100 1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda HQ	14 - 66	1667 - 7967	/940	ON/OFF DALI	Wide	1,77 x 1,17 1,52 x 1,17	660 x 100/160 x 100 1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Wide	54,5 - 66	7893 - 9694	/840	ON/OFF	Wide	3,54 x 1,32	1270 x 160 x 100 1570 x 160 x 100
3F Linda Concentrated	54,5 - 66	7753 - 9521	/840	ON/OFF	Concentrated	0,89 x 1,18	1270 x 160 x 100 1570 x 160 x 100
3F Linda Basic	22 - 49	2956 - 6722	/840	ON/OFF	Wide	1,77 x 1,17 1,35 x 1,24	1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Soft	14 - 66	1866 - 8788	/840	ON/OFF	/	1,39 x 1,21 1,35 x 1,24	660 x 100/160 x 100 1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Compact	7,5 - 14	557 - 1646	/840	ON/OFF EP ENP	Wide	1,87 x 1,39 1,32 x 1,45	300 x 100/160 x 100
3F Linda HO	56 - 88	9042 - 15039	/840	ON/OFF DALI EP DALI EP		1,75 x 1,23 1,61 x 1,23	1270 x 100 x 100 1570 x 100/160 x 100



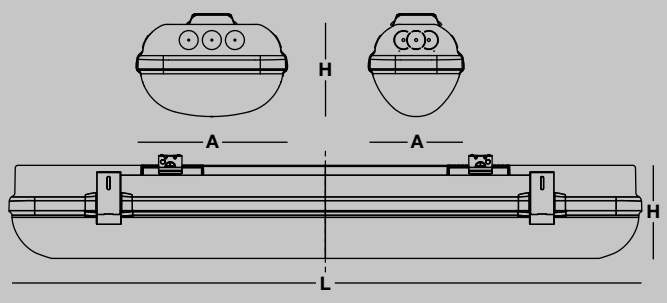
Range

3F Linda

	W	lm	LED	Wiring	Distribution	Dt x Dl	L x B x H
3F Linda ATEX	14 - 66	2033 - 9715	/840	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	660 x 100/160 x 100 1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda HS	28 - 66	4270 - 10122	/840	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda HT	21 - 40	3232 - 6289	/840 /865	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	1570 x 100/160 x 100
3F Linda Transparent	14 - 45	2112 - 6188	/840	ON/OFF	Wide	1,72 x 1,16 1,52 x 1,17	660 x 100 x 100 1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Ice 1x	28 - 33,5	4065 - 5180	/840	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Ice 2x	54,5 - 66	7911 - 9715	/840	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	1270 x 100/160 x 100 1570 x 100/160 x 100
3F Linda Sensor	34,5 - 67	5180 - 9715	/840	ON/OFF	Wide	1,77 x 1,17 1,52 x 1,17	1570 x 100/160 x 100
3F Linda Sensor CF	34,5 - 67	5180 - 9715	/840	Corridor Function	Wide	1,77 x 1,17 1,52 x 1,17	1570 x 100/160 x 100
3F Linda Sensor Bluetooth	29 - 67	4065 - 9715	/840	DALI	Wide	1,77 x 1,17 1,52 x 1,24	1270 x 100/160 x 100 1570 x 100/160 x 100

/ Waterproof and corrosion-proof





Stabilimento FCA
Melfi (PZ)
Italia/Italy



3F Linda

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Stainless steel fixing brackets, L=300 mm versions excluded.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Suitable for illumination of public car parks and parking grounds referred to DIN 67528:2018-04.
For specific applications please contact our technical offices.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

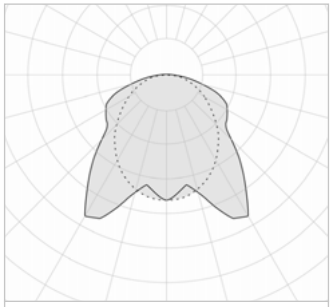
ON REQUEST

- different colour rendering indices and colour temperatures
- wiring: CLO (page 662), class II
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- emergency versions

3F Linda

EP | ENP | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58616

Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58563	3F Linda LED 1x6W L660	7.5	1029	4000	>80	660x100x100
58561	3F Linda LED 1x12W L660	14	2033	4000	>80	660x100x100
58586	3F Linda LED 1x18W L1270	20	2967	4000	>80	1270x100x100
58608	3F Linda LED 1x22W L1570	25	3955	4000	>80	1570x100x100
58583	3F Linda LED 1x24W L1270	28	4065	4000	>80	1270x100x100
58585	3F Linda LED 1x24W/830 L1270	28	3903	3000	>80	1270x100x100
58584	3F Linda LED 1x24W/865 L1270	28	4065	6500	>80	1270x100x100
58572	3F Linda LED 2x12W L660	28	3955	4000	>80	660x160x100
58605	3F Linda LED 1x30W L1570	33.5	5180	4000	>80	1570x100x100
58607	3F Linda LED 1x30W/830 L1570	33.5	4973	3000	>80	1570x100x100
58606	3F Linda LED 1x30W/865 L1570	33.5	5180	6500	>80	1570x100x100
58597	3F Linda LED 2x18W L1270	40	6048	4000	>80	1270x160x100
58619	3F Linda LED 2x22W L1570	49	7557	4000	>80	1570x160x100
58594	3F Linda LED 2x24W L1270	54.5	7911	4000	>80	1270x160x100
58596	3F Linda LED 2x24W/830 L1270	54.5	7594	3000	>80	1270x160x100
58595	3F Linda LED 2x24W/865 L1270	54.5	7911	6500	>80	1270x160x100
58616	3F Linda LED 2x30W L1570	66	9715	4000	>80	1570x160x100
58618	3F Linda LED 2x30W/830 L1570	66	9327	3000	>80	1570x160x100
58617	3F Linda LED 2x30W/865 L1570	66	9715	6500	>80	1570x160x100

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58549	3F Linda LED 1x12W DALI L660	15	2033	4000	>80	660x100x100
58550	3F Linda LED 2x12W DALI L660	28	3955	4000	>80	660x160x100
58551	3F Linda LED 1x24W DALI L1270	28	4065	4000	>80	1270x100x100
58553	3F Linda LED 1x30W DALI L1570	33.5	5180	4000	>80	1570x100x100
58552	3F Linda LED 2x24W DALI L1270	54.5	7911	4000	>80	1270x160x100
58554	3F Linda LED 2x30W DALI L1570	66	9715	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
58569	3F Linda LED 1x6W EP LA L660	8.5	1029	4000	>80	660x160x100
58567	3F Linda LED 1x12W EP LA L660	15	2033	4000	>80	660x160x100
58592	3F Linda LED 1x18W EP L1270	21	2967	4000	>80	1270x100x100
58614	3F Linda LED 1x22W EP L1570	26	3955	4000	>80	1570x100x100
58589	3F Linda LED 1x24W EP L1270	29	4065	4000	>80	1270x100x100
58591	3F Linda LED 1x24W/830 EP L1270	29	3903	3000	>80	1270x100x100
58590	3F Linda LED 1x24W/865 EP L1270	29	4065	6500	>80	1270x100x100
58611	3F Linda LED 1x30W EP L1570	34.5	5180	4000	>80	1570x100x100
58613	3F Linda LED 1x30W/830 EP L1570	34.5	4973	3000	>80	1570x100x100
58612	3F Linda LED 1x30W/865 EP L1570	34.5	5180	6500	>80	1570x100x100
58603	3F Linda LED 2x18W EP L1270	41	6048	4000	>80	1270x160x100
58626	3F Linda LED 2x22W EP L1570	50	7557	4000	>80	1570x160x100
58600	3F Linda LED 2x24W EP L1270	55.5	7911	4000	>80	1270x160x100
58602	3F Linda LED 2x24W/830 EP L1270	55.5	7594	3000	>80	1270x160x100
58601	3F Linda LED 2x24W/865 EP L1270	55.5	7911	6500	>80	1270x160x100
58623	3F Linda LED 2x30W EP L1570	67	9715	4000	>80	1570x160x100
58625	3F Linda LED 2x30W/830 EP L1570	67	9327	3000	>80	1570x160x100
58624	3F Linda LED 2x30W/865 EP L1570	67	9715	6500	>80	1570x160x100

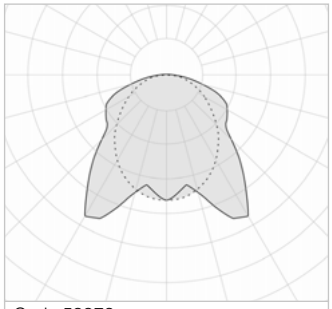
ENP non-permanent emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
58705	3F Linda LED 1x12W ENP LA L660		543	4000	>80	660x160x100
58713	3F Linda LED 1x24W ENP L1270		544	4000	>80	1270x100x100

3F Linda HQ

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58872

LED sources with colour rendering index CRI >90.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58867	3F Linda LED 1x12W/940 L660	14	1667	4000	>90	660x100x100
58868	3F Linda LED 2x12W/940 L660	28	3243	4000	>90	660x160x100
58869	3F Linda LED 1x24W/940 L1270	28	3333	4000	>90	1270x100x100
58870	3F Linda LED 2x24W/940 L1270	54.5	6487	4000	>90	1270x160x100
58871	3F Linda LED 1x30W/940 L1570	33.5	4248	4000	>90	1570x100x100
58872	3F Linda LED 2x30W/940 L1570	66	7967	4000	>90	1570x160x100

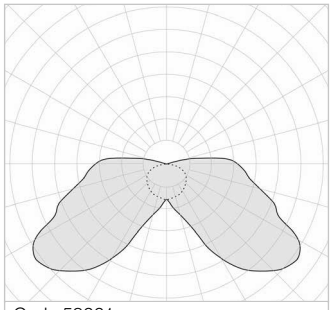
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58873	3F Linda LED 1x12W/940 DALI L660	15	1667	4000	>90	660x100x100
58874	3F Linda LED 2x12W/940 DALI L660	28	3243	4000	>90	660x160x100
58875	3F Linda LED 1x24W/940 DALI L1270	28	3333	4000	>90	1270x100x100
58876	3F Linda LED 2x24W/940 DALI L1270	54.5	6487	4000	>90	1270x160x100
58877	3F Linda LED 1x30W/940 DALI L1570	33.5	4248	4000	>90	1570x100x100
58878	3F Linda LED 2x30W/940 DALI L1570	66	7967	4000	>90	1570x160x100

3F Linda Wide

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58661

Wide distribution.
Flux recuperator in specular aluminium, high efficiency.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.

ON/OFF electronic wiring 230V-50/60Hz

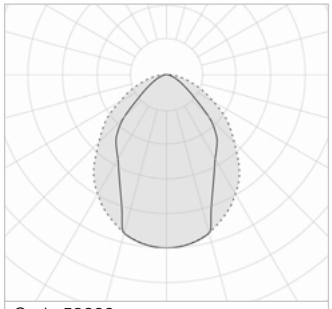
Code	Item	W	lm	K	CRI	L x A x H
58659	3F Linda LED 2x24W AMPIO L1270	54.5	7893	4000	>80	1270x160x100
58661	3F Linda LED 2x30W AMPIO L1570	66	9694	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linda Concentrated

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58632

Concentrated elliptical distribution.
Flux recuperator in specular aluminium, high efficiency.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.

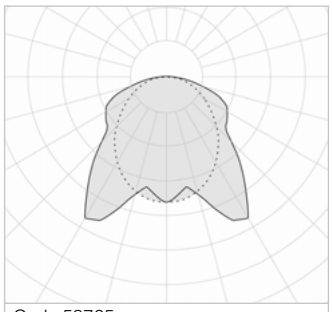
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58630	3F Linda LED 2x24W CONC L1270	54.5	7753	4000	>80	1270x160x100
58632	3F Linda LED 2x30W CONC L1570	66	9521	4000	>80	1570x160x100

3F Linda Basic

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58765

Snug fit snap-lock clips for diffuser mounting, in polycarbonate, tamper-proof screwdriver opening.
In compliance with EN 60598-1.

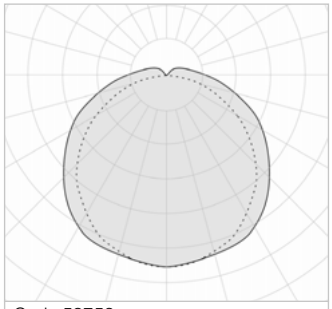
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58762	3F Linda LED Basic 1x19W L1270	19	2938	4000	>80	1270x100x100
58764	3F Linda LED Basic 1x23W L1570	23	3548	4000	>80	1570x100x100
58766	3F Linda LED Basic ST 2x16W L1270	31	4711	4000	>80	1270x100x100
58763	3F Linda LED Basic 2x19W L1270	38	5590	4000	>80	1270x160x100
58767	3F Linda LED Basic ST 2x20W L1570	41	6281	4000	>80	1570x100x100
58765	3F Linda LED Basic 2x23W L1570	46	6905	4000	>80	1570x160x100

3F Linda Soft

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58752

Soft opal diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
In compliance with EN 60598-1.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58731	3F Linda LED Soft 1x12W L660	14	1866	4000	>80	660x100x100
58732	3F Linda LED Soft 2x12W L660	28	3578	4000	>80	660x160x100
58733	3F Linda LED Soft 1x24W L1270	28	3732	4000	>80	1270x100x100
58734	3F Linda LED Soft 1x30W L1570	33.5	4755	4000	>80	1570x100x100
58751	3F Linda LED Soft 2x22W L1570	49	6835	4000	>80	1570x160x100
58737	3F Linda LED Soft 2x24W L1270	54.5	7156	4000	>80	1270x160x100
58752	3F Linda LED Soft 2x30W L1570	66	8788	4000	>80	1570x160x100

DALI electronic wiring 230V-50/60Hz

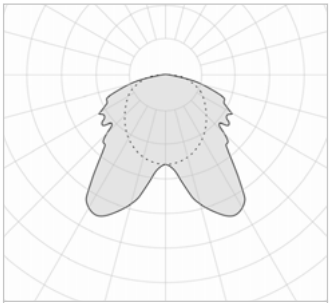
Code	Item	W	lm	K	CRI	L x A x H
58735	3F Linda LED Soft 1x24W DALI L1270	28	3732	4000	>80	1270x100x100
58736	3F Linda LED Soft 1x30W DALI L1570	33.5	4755	4000	>80	1570x100x100
58753	3F Linda LED Soft 2x22W DALI L1570	49	6835	4000	>80	1570x160x100
58738	3F Linda LED Soft 2x24W DALI L1270	54.5	7156	4000	>80	1270x160x100
58754	3F Linda LED Soft 2x30W DALI L1570	66	8788	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linda Compact

EP | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 5068

In compliance with EN 60598-1.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
5066	3F Linda LED 1x6W L300	7.5	883	4000	>80	300x100x100
5067	3F Linda LED 1x6W LA L300	7.5	870	4000	>80	300x160x100
5068	3F Linda LED 2x6W L300	13	1646	4000	>80	300x160x100

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
5069	3F Linda LED 1x6W EP LA L300	8.5	870	4000	>80	300x160x100
5070	3F Linda LED 2x6W EP L300	14	1646	4000	>80	300x160x100

ENP non-permanent emergency wiring, 1hr duration with 24hrs recharge

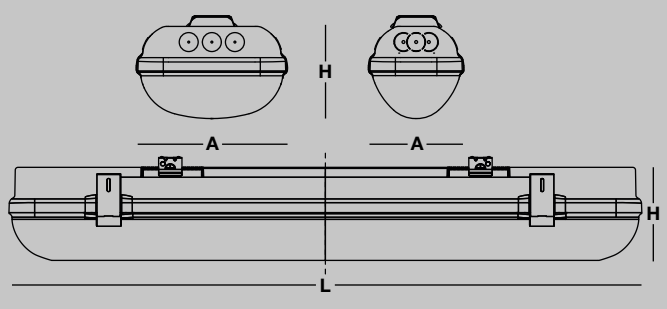
Code	Item	W	lm	K	CRI	L x A x H
5071	3F Linda LED 1x6W ENP LA L300		557	4000	>80	300x160x100

UPDATE

/ Waterproof and corrosion-proof







Real Plaza Puruchuco
Lima
Perù/Peru



3F Linda High Output

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Stainless steel fixing brackets, L=300 mm versions excluded.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Suitable for illumination of public car parks and parking grounds referred to DIN 67528:2018-04.
For specific applications please contact our technical offices.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

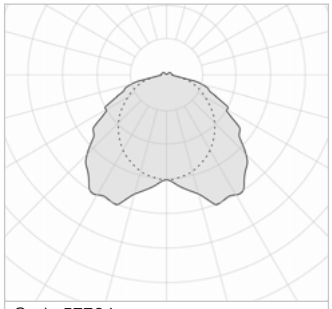
ON REQUEST

- different colour rendering indices and colour temperatures
- wiring: CLO (page 662), class II
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- double switch-on for 2x ON/OFF versions
- emergency versions

3F Linda HO

CE | SAFER FLICKER | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 57704

High lumen output LED sources.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57703	3F Linda LED HO 1x50W/840 L1270	56	9042	4000	>80	1270x100x100
57704	3F Linda LED HO 1x62W/840 L1570	69	11194	4000	>80	1570x100x100
57733 NEW	3F Linda LED HO 2x40W/840 L1570	87	15039	4000	>80	1570x160x100

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
57711	3F Linda LED HO 1x50W/840 EP L1270	57	9042	4000	>80	1270x100x100
57712	3F Linda LED HO 1x62W/840 EP L1570	70	11194	4000	>80	1570x100x100
57734 NEW	3F Linda LED HO 2x40W/840 EP L1570	88	15039	4000	>80	1570x160x100

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
57719	3F Linda LED HO 1x50W/840 DALI L1270	56	9042	4000	>80	1270x100x100
57720	3F Linda LED HO 1x62W/840 DALI L1570	69	11194	4000	>80	1570x100x100
57735 NEW	3F Linda LED HO 2x40W/840 DALI L1570	87	15039	4000	>80	1570x160x100

DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
57727	3F Linda LED HO 1x50W/840 DALI EP L1270	57	9042	4000	>80	1270x100x100
57728	3F Linda LED HO 1x62W/840 DALI EP L1570	70	11194	4000	>80	1570x100x100
57736 NEW	3F Linda LED HO 2x40W/840 DALI EP L1570	88	15039	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

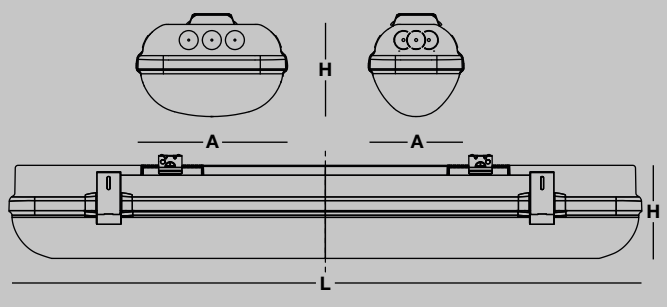

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/ Waterproof and corrosion-proof









Porto di Savona
Savona
Italia/Italy



3F Linda ATEX

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Entry for power-supply cable through ATEX M20x1,5mm polyamide cable gland, supplied.

APPLICATIONS

Environments with ATEX explosive atmosphere (Conformity 2014/34/UE, EN IEC 60079-0, EN 60079-31): Group II, Category 3D (Ex Tc IIIC T85°C Dc).
Severe Industrial Environments, food and agri-food industries, scientific and food processing laboratories, environments with high humidity, swimming pools, railway, aeronautical and port applications.
Dry, dusty indoor environments, subject to occasional water splashes.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
For specific applications please contact our technical offices.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

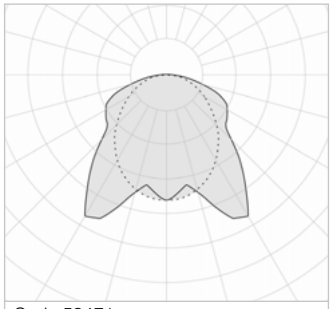
ON REQUEST

- different colour rendering indices and colour temperatures
- wiring: CLO (page 662), dimmable, class II
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology

3F Linda ATEX

CE | SAFER FLICKER | D | 850°C | IP66 | Ex | 20J | IK10 | Driver/LED SELV | HACCP





Code 58471

ON/OFF electronic wiring 230V-50/60Hz

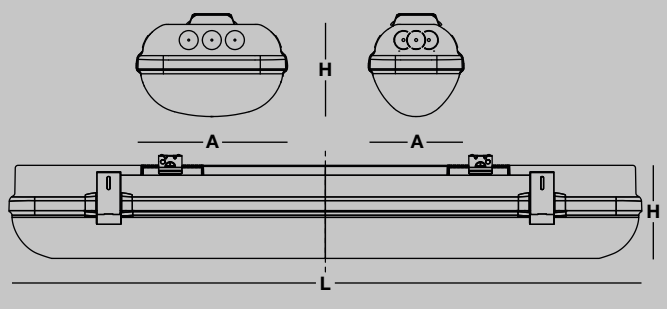
Code	Item	W	lm	K	CRI	L x A x H
58470	3F Linda LED 1x12W ATEX 3D L660	14	2033	4000	>80	660x100x100
58471	3F Linda LED 2x12W ATEX 3D L660	28	3955	4000	>80	660x160x100
58472	3F Linda LED 1x24W ATEX 3D L1270	28	4065	4000	>80	1270x100x100
58474	3F Linda LED 1x30W ATEX 3D L1570	33.5	5180	4000	>80	1570x100x100
58473	3F Linda LED 2x24W ATEX 3D L1270	54.5	7911	4000	>80	1270x160x100
58475	3F Linda LED 2x30W ATEX 3D L1570	66	9715	4000	>80	1570x160x100

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



/ Waterproof and corrosion-proof





Forming AG
Möhlin
Switzerland



3F Linda Hard Skin

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear anti-sulfur LED modules (SiO2), with special protection against aggressive chemically-volatile substances, for standard LED technology.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Body and screen in polycarbonate with additional protective treatment for use in environments with aggressive substances.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Luminaire complete with linear anti-sulfur LED modules (SiO2), with special protection against aggressive chemically-volatile substances, for standard LED technology.
Body and diffuser resistant to the following substances: Ethyl alcohol (24 hours at 20°C), aqueous detergents, hydrochloric acid (leaves slight mark), DOT4 brake oil, sulphuric acid (leaves slight mark), ammonia.
When using this data, remember that it is the result of laboratory tests, and therefore valid only under those test conditions: the data is to be considered approximate and, in the absence of practical experience, it is advisable to carry out tests under actual operating conditions.
Temperature and concentration of the chemical agent can affect materials and influence LED technology.
Suitable for illumination of public car parks and parking grounds referred to DIN 67528:2018-04.
For specific applications please contact our technical offices.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

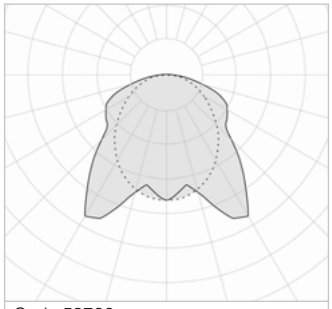
ON REQUEST

- different colour temperatures
- wiring: dimmable, CLO (page 662), class II
- emergency versions

3F Linda HS

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58730

Luminaire complete with linear LED modules (SiO2), with special protection against aggressive chemically-volatile substances, for standard LED technology.

ON/OFF electronic wiring 230V-50/60Hz

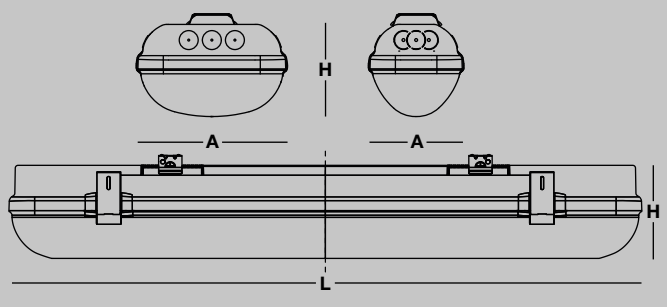
Code	Item	W	lm	K	CRI	L x A x H
58722	3F Linda LED HS 1x24W L1270	28	4270	4000	>80	1270x100x100
58724	3F Linda LED HS 1x30W L1570	33.5	5394	4000	>80	1570x100x100
58728	3F Linda LED HS 2x24W L1270	54.5	8308	4000	>80	1270x160x100
58730	3F Linda LED HS 2x30W L1570	66	10122	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


MARTINI

/ Waterproof and corrosion-proof





Forming AG
Möhlin
Switzerland



3F Linda High Temperature

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Luminous flux at +55°C: -10%.
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

APPLICATIONS

Ambient temperatures up to +55°C.
Dry, dusty indoor environments, subject to occasional water splashes.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

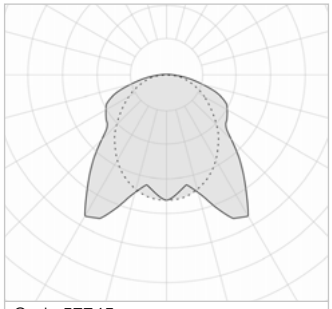
ON REQUEST

- different colour rendering indices and colour temperatures
- wiring: electronic, dimmable, DALI, CLO (page 662), class II
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology

3F Linda HT

CE | SAFE FLICKER | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 57745

ON/OFF electronic wiring 230V-50/60Hz

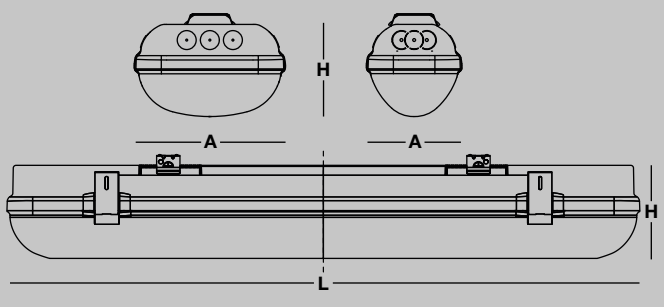
Code	Item	W	lm	K	CRI	L x A x H
57743	3F Linda LED HT 1x18W/840 L1570	21	3232	4000	>80	1570x100x100
57744	3F Linda LED HT 2x13W/840 L1570	30	4781	4000	>80	1570x160x100
57745	3F Linda LED HT 2x18W/840 L1570	40	6289	4000	>80	1570x160x100
57747	3F Linda LED HT 1x18W/865 L1570	21	3232	6500	>80	1570x100x100
57748	3F Linda LED HT 2x13W/865 L1570	30	4781	6500	>80	1570x160x100
57749	3F Linda LED HT 2x18W/865 L1570	40	6289	6500	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


CONTINUA+
CONTINUA+
CONTINUA+

/ Waterproof and corrosion-proof





Brandweer Hasselt
Hasselt
Belgique/Belgium



3F Linda Transparent

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L75/B10): 80000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in transparent self-extinguishing V2 polycarbonate, injection moulded.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Environments: transit areas, parking lots.
Environments where soft diffuse light is required for optimal visual comfort.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Suitable for illumination of public car parks and parking grounds referred to DIN 67528:2018-04.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

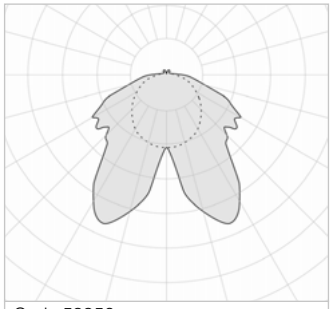
ON REQUEST

- different colour rendering indices and colour temperatures
- wiring: dimmable, CLO (page 662), class II
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- emergency versions

3F Linda Transparent

850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





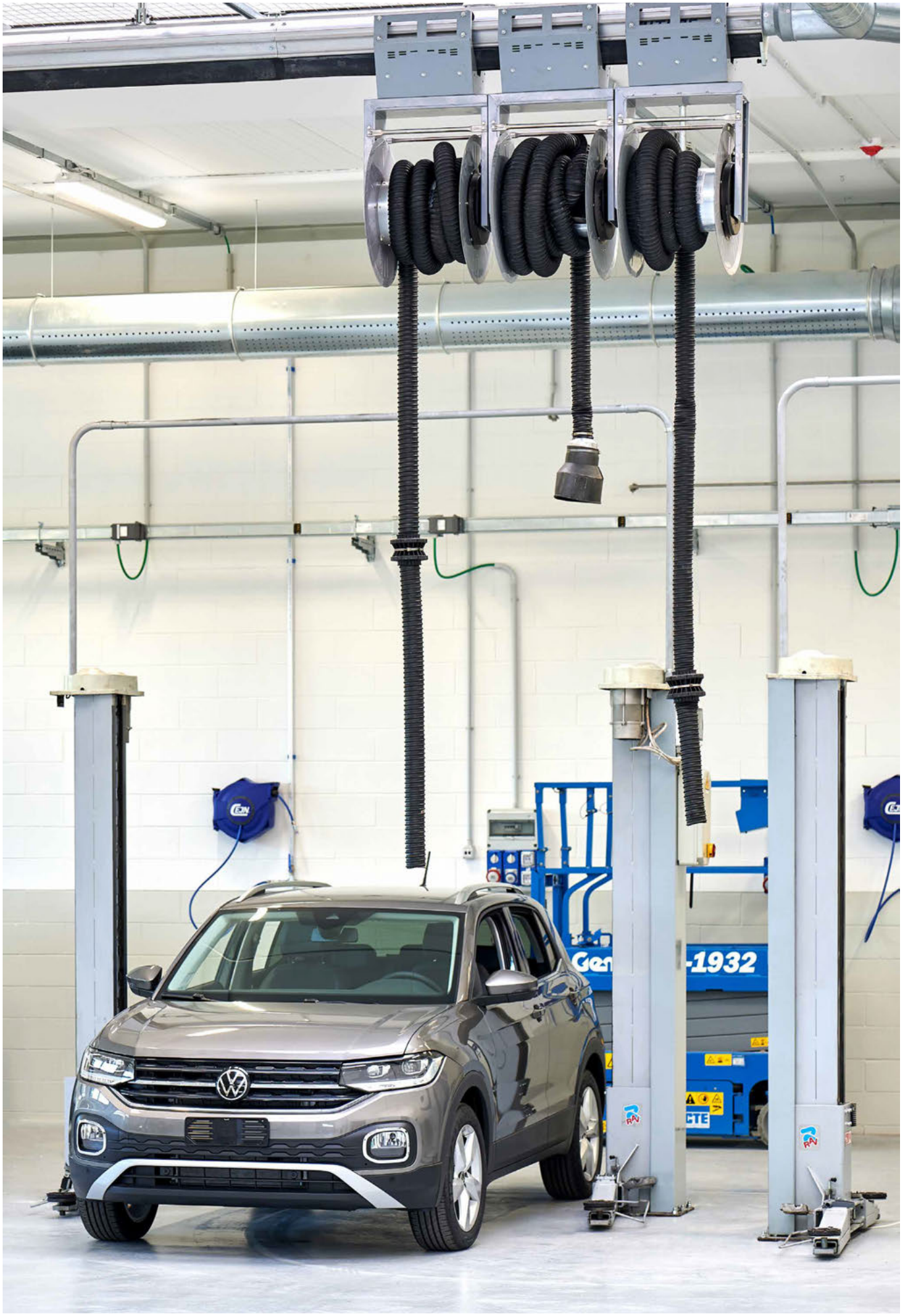
Code 58856

Transparent polycarbonate housing.
Snug fit safety snap-lock clips in stainless steel.

ON/OFF electronic wiring 230V-50/60Hz

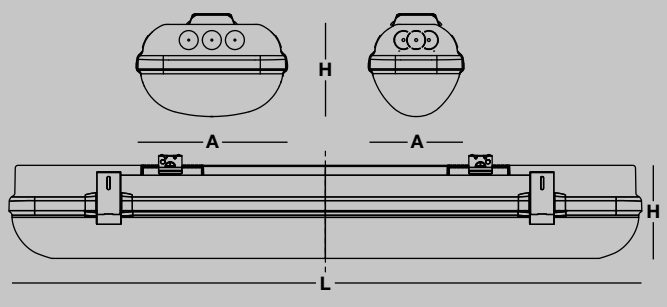
Code	Item	W	lm	K	CRI	L x A x H
58852	3F Linda LED Lite TR 1x12W L660	14	2033	4000	>80	660x100x100
58853	3F Linda LED Lite TR 1x19W L1270	19	2938	4000	>80	1270x100x100
58854	3F Linda LED Lite TR 1x23W L1570	23	3548	4000	>80	1570x100x100
58855	3F Linda LED Lite TR 2x16W L1270	31	4634	4000	>80	1270x160x100
58856	3F Linda LED Lite TR 2x20W L1570	41	6178	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


-1932

/ Waterproof and corrosion-proof





Cantine Banfi
Montalcino (SI)
Italia/Italy



3F Linda Ice

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L90/B10): 50000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules UR95.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Solid single-core silicone rubber insulated wiring cable with fibreglass braid type UG4T2/2 cross section 0.75 mm².

APPLICATIONS

Cells with temperature from -30°C to +40°C with a humidity degree up to 95%.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
For applications in environments in which disturbances on the power network may be present and/or involve use at low temperatures, surge protection devices should be fitted on the power supply and any causes of undervoltages eliminated.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

NOTES

Thanks to new 3F LED technology, the advantages of using 3F Linda LED ICE technology are manifold:
- switch-on time less than 5 seconds
- unlimited on cycles
- lifetime of LED source does not decline in relation to the number of on cycles

All this results in cost reductions thanks to:
- power consumption lower than for fluorescent versions
- no heat transfer from the luminaire to the cooled environment

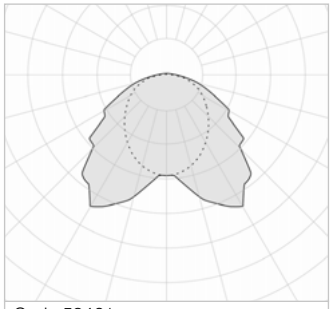
ON REQUEST

- different colour rendering indices and colour temperatures
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology

3F Linda Ice 1x

CE | D | ICE | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58461

Controlled wide distribution.

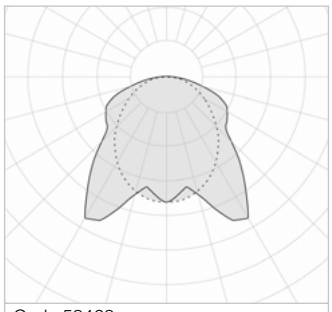
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58457	3F Linda LED Ice 1x24W UR95 L1270	28	4065	4000	>80	1270x100x100
58461	3F Linda LED Ice 1x30W UR95 L1570	33.5	5180	4000	>80	1570x100x100

3F Linda Ice 2x

CE | D | ICE | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58463

Controlled wide distribution.

ON/OFF electronic wiring 230V-50/60Hz

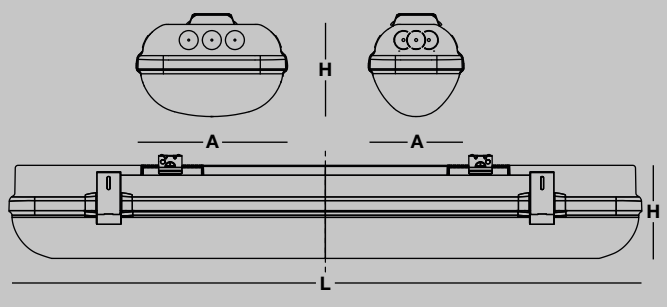
Code	Item	W	lm	K	CRI	L x A x H
58459	3F Linda LED Ice 2x24W UR95 L1270	54.5	7911	4000	>80	1270x160x100
58463	3F Linda LED Ice 2x30W UR95 L1570	66	9715	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



/ Waterproof and corrosion-proof





Hippisch Centrum Ruiterlijk
Genoegen
Oud Turnhout
Belgique/Belgium



3F Linda Sensor

ILLUMINOTECHNICAL

Controlled symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Ecologic anti-aging injected sealing gasket.
Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.
Snug fit safety snap-lock clips for diffuser mounting in stainless steel, screwdriver opening.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Integrated presence sensor.

APPLICATIONS

Dry, dusty indoor environments, subject to occasional water splashes.
Environments: transit areas, parking lots.
Virtually shatterproof polycarbonate compatibly with the fumes / atmospheres that compromise the elasticity of plastic materials.
Not suitable in environments where chlorine fumes, ligroin, hydrocarbon mixtures, mineral oil vapours or fumes of lubricating emulsions to cool down machine tools are present.
Not suitable for installation on surfaces subject to important vibrations, exposed to weather conditions, on ropes or poles.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).
Suitable for illumination of public car parks and parking grounds referred to DIN 67528:2018-04.
For specific applications please contact our technical offices.

LIGHT MANAGEMENT

The products use 3F Sensor technology (page 634).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

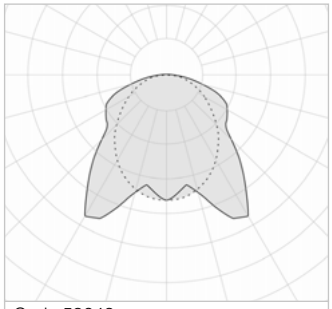
ON REQUEST

- different colour rendering indices and colour temperatures
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- emergency versions

3F Linda Sensor

CE | SAFE FLICKER | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58642

Integrated presence sensor with ON/OFF function.

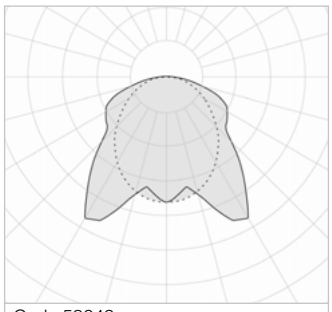
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58638	3F Linda LED 1x30W Sensor L1570	35.5	5180	4000	>80	1570x100x100
58642	3F Linda LED 2x30W Sensor L1570	67	9715	4000	>80	1570x160x100

3F Linda Sensor Corridor Function

CE | SAFE FLICKER | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58649

Integrated presence sensor with Corridor Function mode, even with the environment free of people, the luminous flux is maintained at 10%.

CF (Corridor Function) electronic wiring 230V-50/60Hz

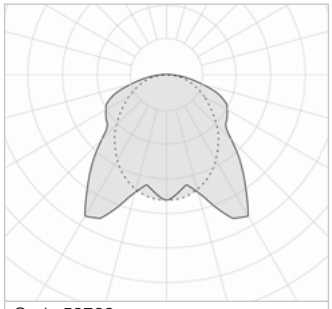
Code	Item	W	lm	K	CRI	L x A x H
58645	3F Linda LED 1x30W Sensor CF L1570	35.5	5180	4000	>80	1570x100x100
58649	3F Linda LED 2x30W Sensor CF L1570	67	9715	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Linda Sensor Bluetooth

CE | SAFER FLICKER | D | 850°C | IP66 | 20J | IK10 | Driver/LED SELV | HACCP





Code 58789

Integrated Bluetooth presence sensor that allows to adjust and create a wireless network between DALI-BLE fixtures.

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58786	3F Linda LED 1x24W Sensor DALI-BLE L1270	29	4065	4000	>80	1270x100x100
58787	3F Linda LED 1x30W Sensor DALI-BLE L1570	35.5	5180	4000	>80	1570x100x100
58788	3F Linda LED 2x24W Sensor DALI-BLE L1270	55.5	7911	4000	>80	1270x160x100
58789	3F Linda LED 2x30W Sensor DALI-BLE L1570	67	9715	4000	>80	1570x160x100

3F Linda | Accessories



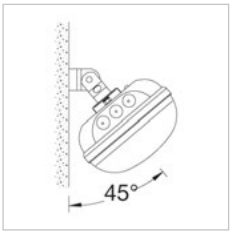
Code	Item
A0660	Suspension with adjustment - 1m
A0661	Suspension with adjustment - 2 m
A0662	Suspension with adjustment - 3 m
A0663	Suspension with adjustment - 4 m
A0664	Suspension with adjustment - 5 m
A0665	Suspension with adjustment - 6 m

Suspension with regulator, galvanised steel cable 1.5 mm diameter, load 15 kg.
Attention: each product requires two suspensions with regulator.
Accessory not compatible with 3F Linda LED Compact versions.



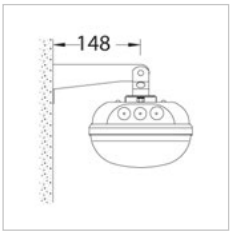
Code	Item
A0160	Inox clips 3F Linda L660 -4pcs The pack contains 4 pieces.
A0161	Inox clips 3F Linda L1270 -8pcs The pack contains 8 pieces.
A0162	Inox clips 3F Linda L1570 -10pcs The pack contains 10 pieces.

Snug fit snap-lock clips for diffuser mounting, in stainless steel, safety opening.
Accessory compatible with 3F Linda, 3F Linda - High Output, 3F Linda - ATEX, 3F Linda - High Temperature.



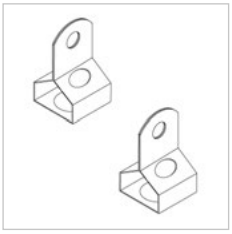
Code	Item
A0449	15 GZI w/brack.+ hooks Linda L300
A0450	15 RIT w/bra.+hooks Linda L660-1270-1570

Pair of brackets and hooks in stainless steel, with nuts and bolts for fixing to 3F Linda, for ceiling or wall-mounting, single and twin-lamp luminaires. Minimum tilt angle = 45°.



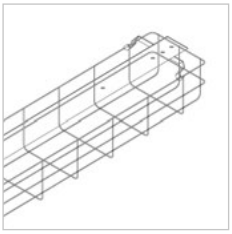
Code	Item
A0451	15 MBI w/brack.+ hooks Linda L300
A0452	15 FBR w/bra.+hooks Linda L660-1270-1570

Pair of brackets and hooks in stainless steel, with nuts and bolts for fixing to 3F Linda, for wall-mounting, single and twin-lamp luminaires.



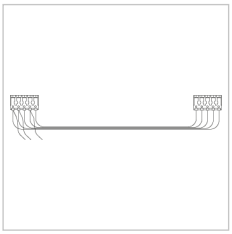
Code	Item
A0462	13 GSI (pair of susp. hooks Linda L300)
A0463	13 TRM pair of susp.hooks Linda

Pair of stainless steel hooks for suspended installation, with cable clip and nuts and bolts for installation to 3F Linda.



Code	Item
A0455	Wireguard 180x1330 3F Linda
A0456	Wireguard 180x1630 3F Linda
A0457	Wireguard 280x1330 3F Linda/3F Beta
A0458	Wireguard 280x1630 3F Linda/3F Beta

Wire-guard for applications in dry environments, against shocks coming from any directions, galvanised steel rod Ø 5 mm.
Only for luminaires fixed without hooks.



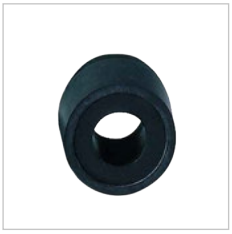
Code	Item
A0447	3F Linda through-line L1570

5-pole cascade connection line, stiff cable H07 V2-U, HT 90°C, 1.5 mm², terminal blocks with connection capacity 2x2.5 mm².
Accessory compatible with 3F Linda, 3F Linda - High Output, 3F Linda - ATEX, 3F Linda - Hard Skin, 3F Linda - High Temperature, 3F Linda - Ice.
Accessory not compatible with ST versions of 3F Linda LED Basic.



Code	Item
A0187	Anti-condensation cable gland

Anti-condensation diffuser cable gland.
Recommended for installations in environments with temperature sudden changes or subject to condensation.



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



Code	Item
A0464	26 CSG (pictogram P1 Linda L300)
A0465	26 MTH (pictogram P1 Linda L660)

Pictograms for warning signs to be applied on emergency luminaire's diffusers 160 mm wide. Pictogram, 135 mm high, 240 mm long for L300 luminaires, 605 mm long for L660 luminaires. Pictograms complying with European standards concerning health and safety signals on the workplace.



Code	Item
A0466	26 DVI (pictogram P2 Linda L300)
A0467	26 MVL (pictogram P2 Linda L660)

Pictograms for warning signs to be applied on emergency luminaire's diffusers 160 mm wide. Pictogram, 135 mm high, 240 mm long for L300 luminaires, 605 mm long for L660 luminaires. Pictograms complying with European standards concerning health and safety signals on the workplace.



Code	Item
A0468	26 GZM (pictogram P3 Linda L300)
A0469	26 PXN (pictogram P3 Linda L660)

Pictograms for warning signs to be applied on emergency luminaire's diffusers 160 mm wide. Pictogram, 135 mm high, 240 mm long for L300 luminaires, 605 mm long for L660 luminaires. Pictograms complying with European standards concerning health and safety signals on the workplace.



Code	Item
A0434	Safety screw locking Linda - 20 pcs The pack contains 20 pieces.
A0435	Safety screw locking Linda - 100 pcs The pack contains 100 pieces.

Safety screw for 3F Linda locking bracket



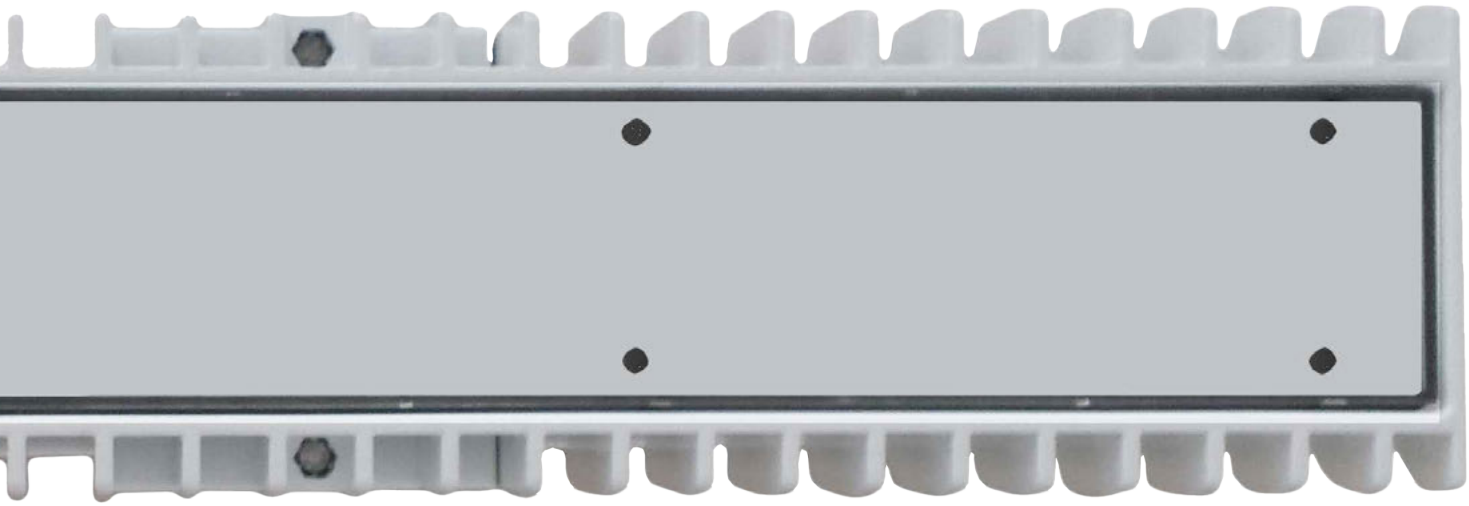
/ 3F LEM

3F LEM is a highly specialised product, designed to satisfy customers who need to light large areas evenly.

We designed and built it with large injection molded lenses that allow different photometric distributions and light modules in aluminum alloy capable of dissipating the heat developed by the latest generation LED sources in the best possible way.



3F LEM
Cereser Marmi S.p.A.
Rivoli Veronese (VR), Italy



Scale 1:2
mm

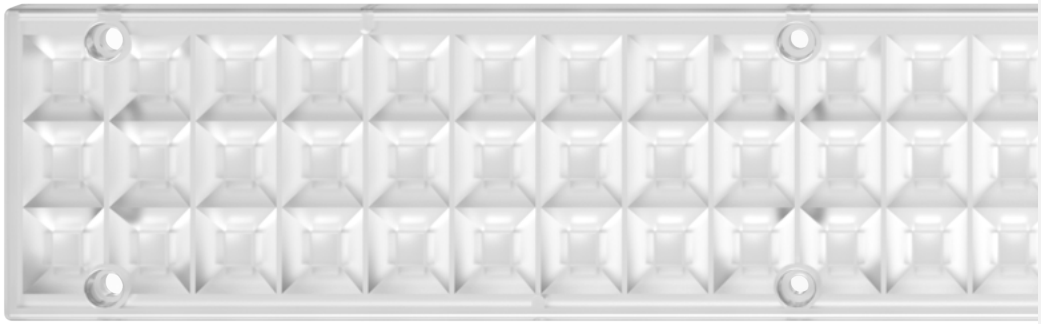
Do not **overheat.**

Qith 3F LEM, our goal was to create a product which could be installed in **high-temperature** environments and which would be able to make the sources work correctly: the result is a body made from an innovative pressure die-cast body, which can be installed in environments with temperatures up to 70°C.

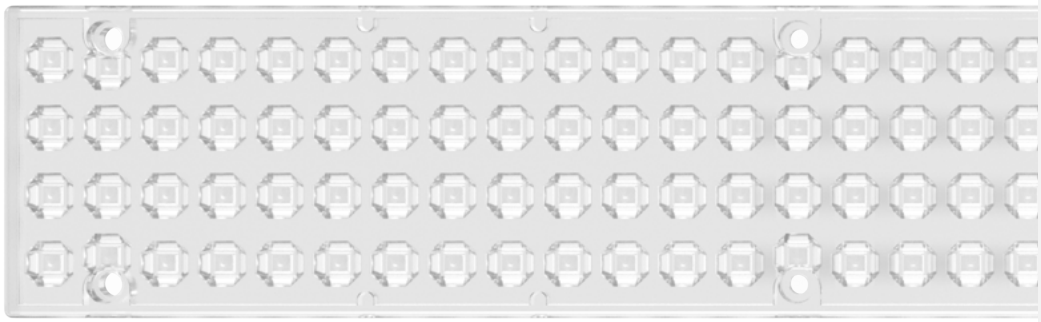
3F LEM fully complies with all applicable illuminotechnical standards and legislation: its lighting distribution comes from careful analysis of BS EN 12464-1 which covers lighting of indoor work environments.

In addition to the Wide, Medium and Concentrated distributions, we have developed the new **HRL (High Rack Lens) distribution, a state-of-the-art lig**hting solution for logistics applications. Unlike the current CONC distribution, which is designed to optimise the luminous flux exclusively on the horizontal working plane, the HRL is characterised by its ability to guarantee exceptional uniformity also on the vertical plane. This means that even shelves and storage areas enjoy uniform illumination, significantly improving visibility and operational efficiency in complex logistics environments.

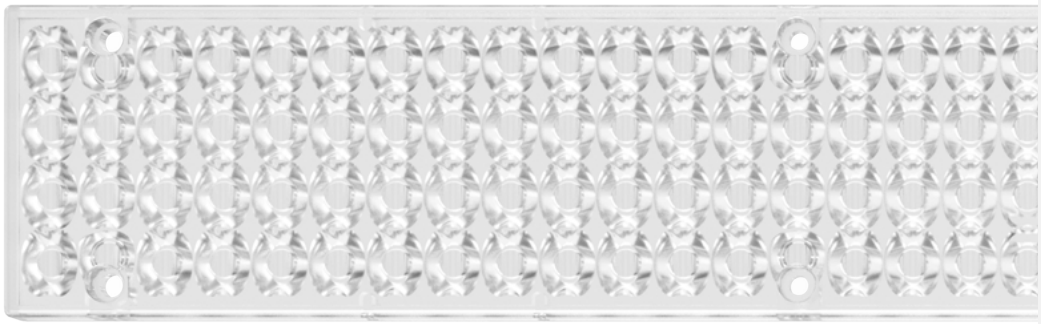
3F LEM
Wide



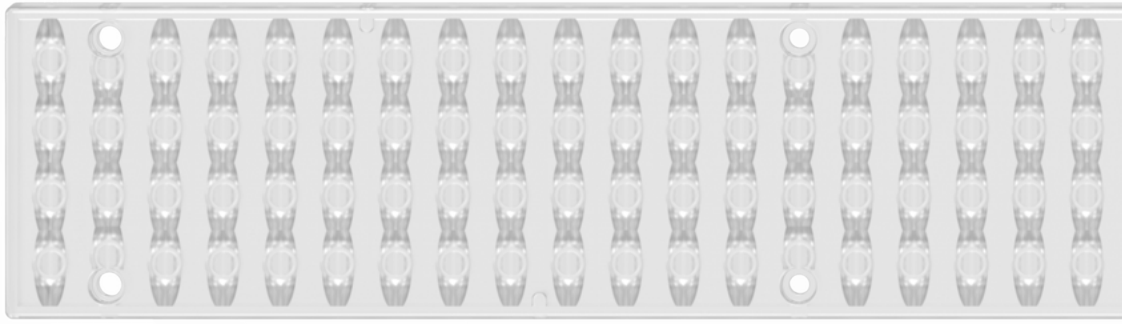
3F LEM
Medium



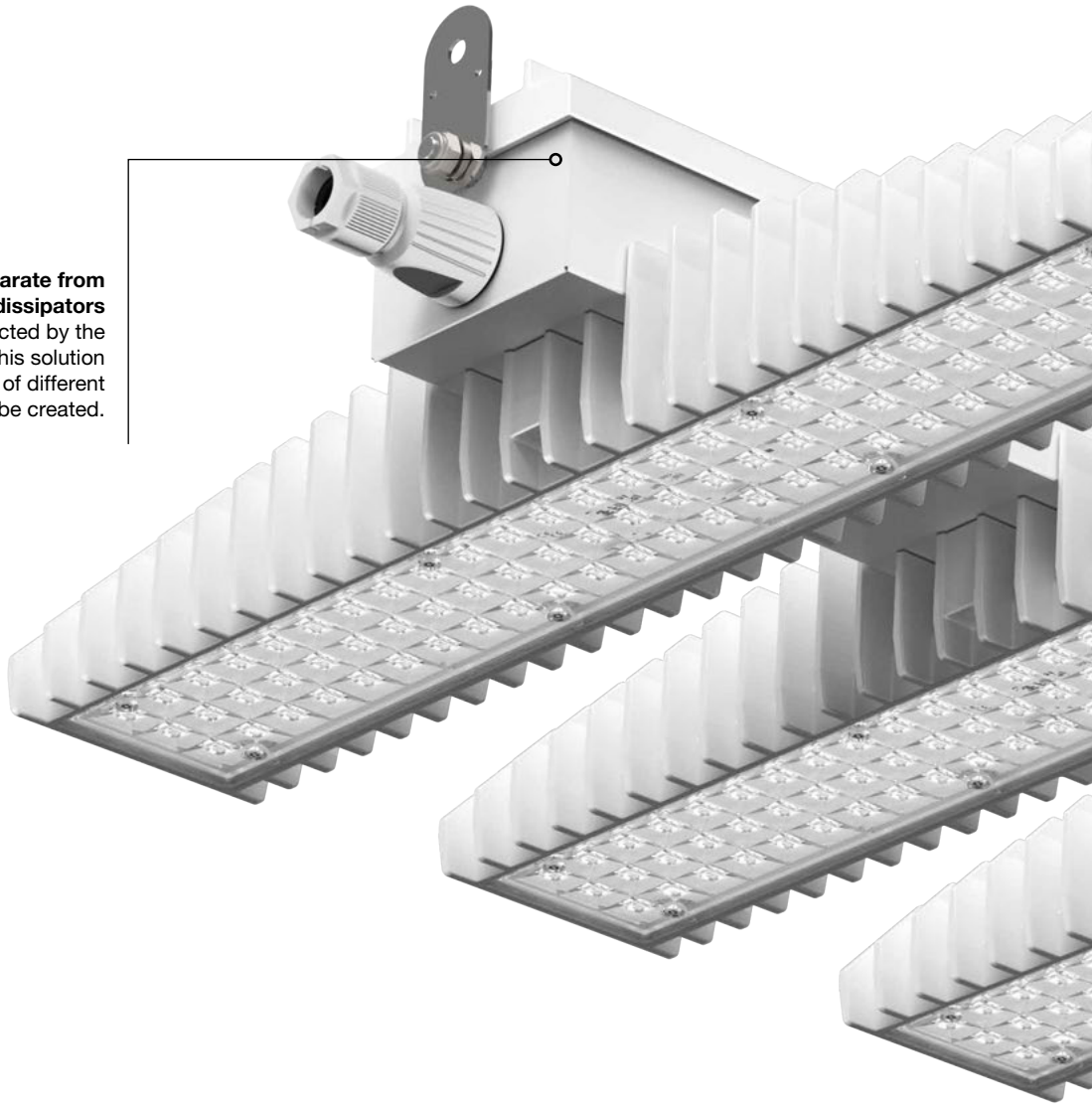
3F LEM
Concentrated



3F LEM
HRL (High Rack Lens)



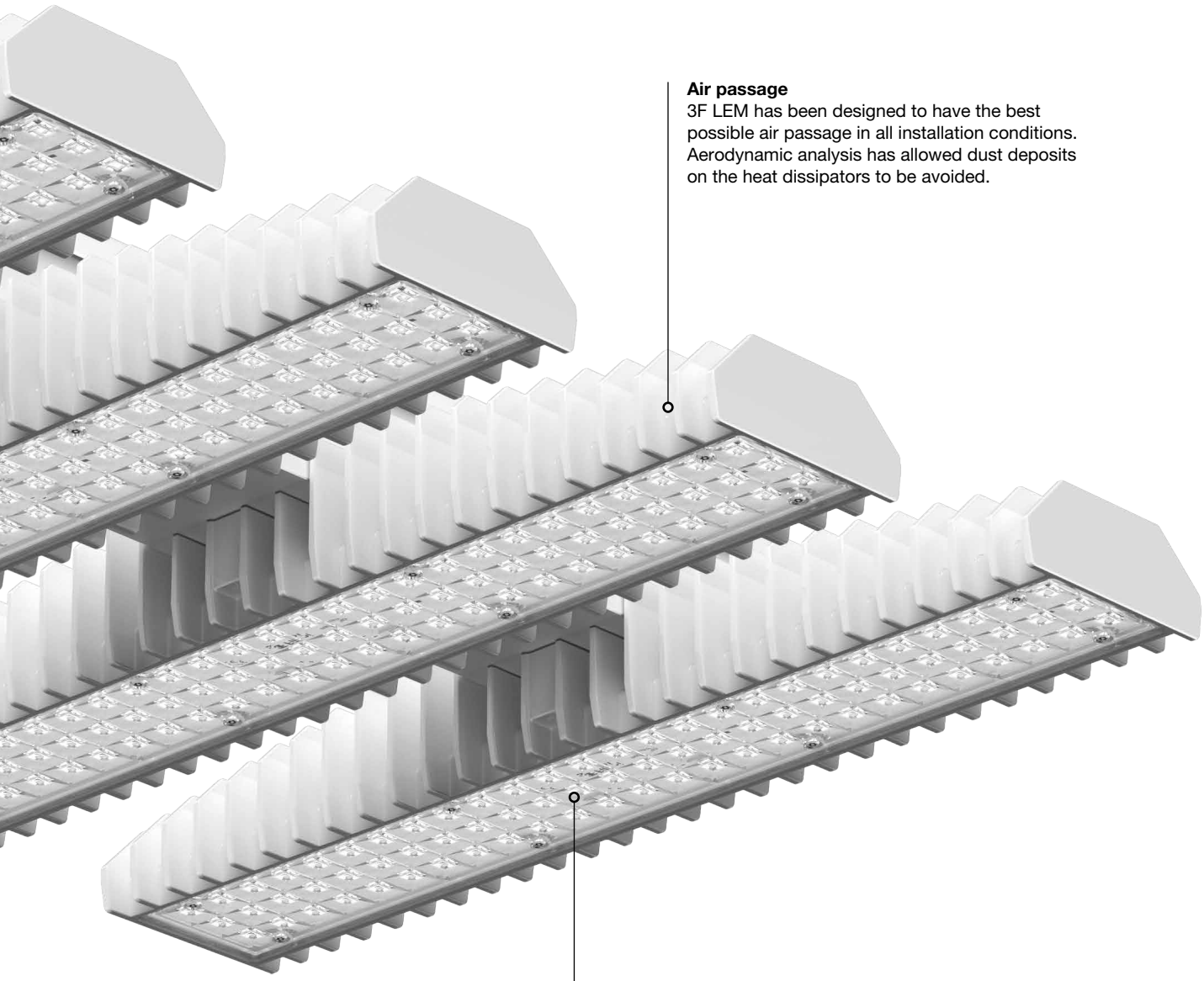
Wiring compartment separate from heat dissipators
The power supplies are not affected by the heat emitted by the modules. This solution also allows wiring compartments of different lengths to be created.



A **masterpiece** of mechanics.

3F Filippi is an Emilian company and the passion for mechanics is part of our culture and our skills: it is precisely for this reason that to create the 3F LEM heatsink module we turned to the highest authority in this field, the Faculty of Mechanical engineering of the Alma Mater Studiorum - University of Bologna.

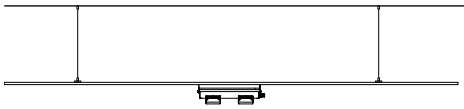
Thanks to their precious support and their skills, we have created the heart of the 3F LEM - the dissipating module: this is the common denominator of all the models in the family and the performance of the LED largely depends on its ability to dissipate heat.



Air passage
3F LEM has been designed to have the best possible air passage in all installation conditions. Aerodynamic analysis has allowed dust deposits on the heat dissipators to be avoided.

3F Lens lenticular lens
Available with Wide, Medium or Concentrated controlled emission (UGR <22).

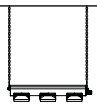
Upgradability
Shielding, sources and power supplies can be replaced at the end of their life cycle, upgraded to nextgeneration sources.



Bus bar



Ceiling



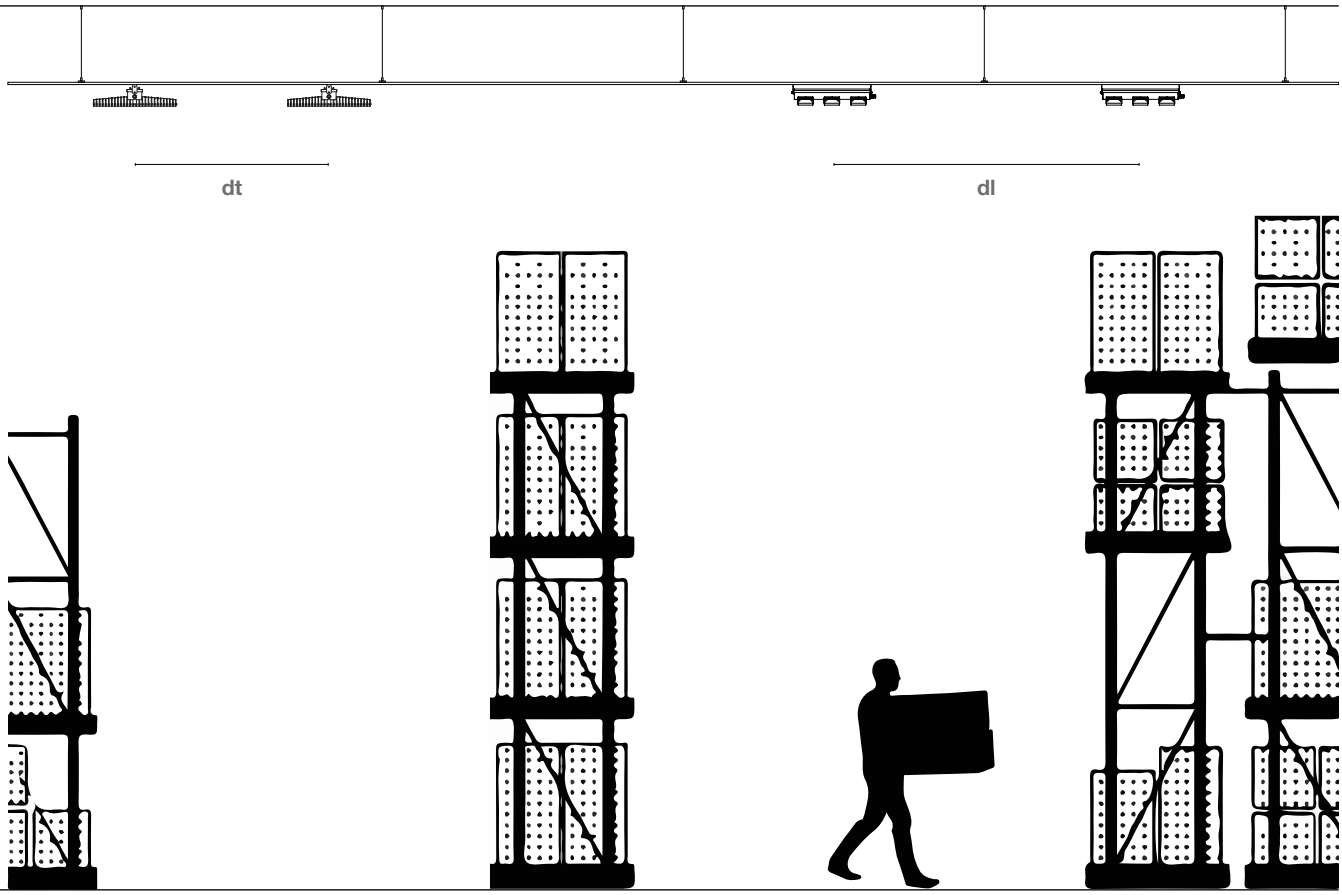
Suspended



Range

3F LEM

	W	lm	LED	Wiring	Dt x Dl	Modules	L x B x H
3F LEM Wide	56 - 274	8495 - 42473	/840 /865	ON/OFF D2D	1,50 x 1,40	3F LEM 1 3F LEM 1+1 3F LEM 2 3F LEM 3 3F LEM 4 3F LEM 5	542 x 115 x 150 1099 x 115 x 150 470 x 542 x 129 657 x 542 x 129 757 x 542 x 129 952 x 542 x 129
3F LEM Medium	109 - 274	16630 - 41574	/840	ON/OFF D2D	1,20 x 1,20	3F LEM 1+1 3F LEM 2 3F LEM 3 3F LEM 4 3F LEM 5	1099 x 115 x 150 470 x 542 x 129 657 x 542 x 129 757 x 542 x 129 952 x 542 x 129
3F LEM Concentrated	56 - 218	8135 - 32540	/840 /865	ON/OFF D2D	0,60 x 1,20	3F LEM 1 3F LEM 2 3F LEM 3 3F LEM 4	542 x 115 x 150 470 x 542 x 129 657 x 542 x 129 757 x 542 x 129
3F LEM HO Wide	76 - 380	12729 - 63646	/840	ON/OFF D2D	1,50 x 1,40	3F LEM 1 3F LEM 1+1 3F LEM 2 3F LEM 3 3F LEM 4 3F LEM 5	542 x 115 x 150 1099 x 115 x 150 470 x 542 x 129 657 x 542 x 129 757 x 542 x 129 952 x 542 x 129
3F LEM HO Medium	152 - 380	24920 - 62299	/840	ON/OFF D2D	1,20 x 1,20	3F LEM 1+1 3F LEM 2 3F LEM 3 3F LEM 4 3F LEM 5	1099 x 115 x 150 470 x 542 x 129 657 x 542 x 129 757 x 542 x 129 952 x 542 x 129
3F LEM HO Concentrated	76 - 228	12190 - 36571	/840	ON/OFF D2D	0,60 x 1,20	3F LEM 1 3F LEM 2 3F LEM 3	542 x 115 x 150 470 x 542 x 129 657 x 542 x 129
3F LEM HO HRL	76 - 228	12123 - 36369	/840	ON/OFF D2D	0,99 x 1,30	3F LEM 1 3F LEM 2 3F LEM 3	542 x 115 x 150 470 x 542 x 129 657 x 542 x 129



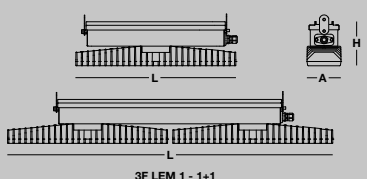
Range

3F LEM

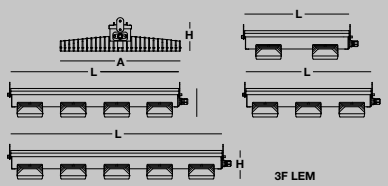
	W	lm	LED	Wiring	Dt x Dl	Modules	L x B x H
3F LEM Sensor Wide	110 - 219	16989 - 33978	/840	D2D	1,50 x 1,40	3F LEM 2 3F LEM 3 3F LEM 4	657 x 542 x 129 952 x 542 x 129 952 x 542 x 129
3F LEM Sensor Medium	110 - 219	16630 - 33259	/840	D2D	1,20 x 1,20	3F LEM 2 3F LEM 3 3F LEM 4	657 x 542 x 129 952 x 542 x 129 952 x 542 x 129
3F LEM Sensor Concentrated	110 - 219	16270 - 32540	/840	D2D	0,60 x 1,20	3F LEM 2 3F LEM 3 3F LEM 4	657 x 542 x 129 952 x 542 x 129 952 x 542 x 129
3F LEM HT Wide	68 - 170	10869 - 27174	/840	ON/OFF	1,50 x 1,40	3F LEM 2 3F LEM 3 3F LEM 4 3F LEM 5	470 x 542 x 129 657 x 542 x 129 757 x 542 x 129 952 x 542 x 129
3F LEM HT Medium	136 - 170	21289 - 26611	/840	ON/OFF	1,20 x 1,20	3F LEM 4 3F LEM 5	757 x 542 x 129 952 x 542 x 129
3F LEM HT Concentrated	68 - 136	10419 - 20838	/840	ON/OFF	0,60 x 1,20	3F LEM 2 3F LEM 3 3F LEM 4	470 x 542 x 129 657 x 542 x 129 757 x 542 x 129
3F LEM Sport Medium	109 - 218	16630 - 33259	/840	ON/OFF D2D	1,20 x 1,20	3F LEM 2 3F LEM 3 3F LEM 4	470 x 542 x 129 657 x 542 x 129 757 x 542 x 129
3F LEM HO Sport Medium	152 - 228	24920 - 37379	/840	ON/OFF D2D	1,20 x 1,20	3F LEM 2 3F LEM 3	470 x 542 x 129 657 x 542 x 129

/ Waterproof and corrosion-proof



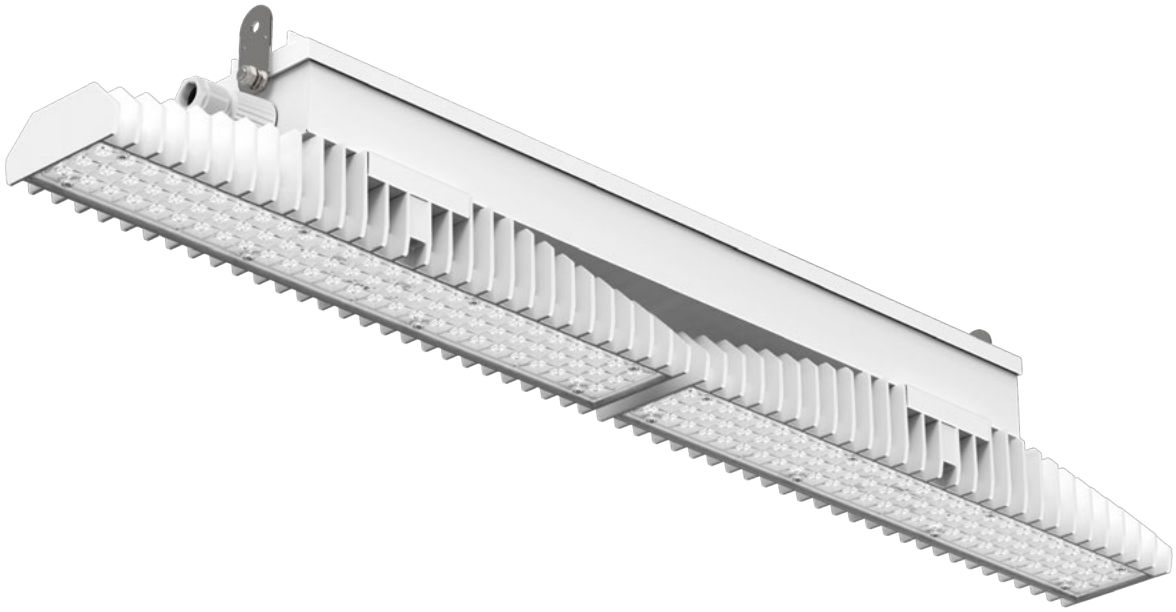


3F LEM 1 - 1+1



3F LEM

Gessi S.p.A.
Serravalle Sesia (NO)
Italia/Italy



3F LEM

ILLUMINOTECHNICAL

Wide, medium, concentrated symmetric elliptical distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Wiring body in aluminium and galvanised steel anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.

APPLICATIONS

Ambient temperature from -30°C to +55°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

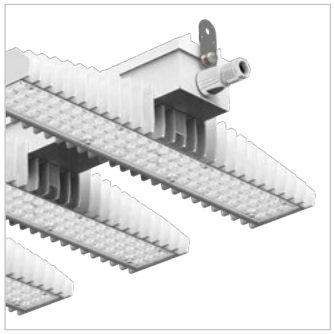
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

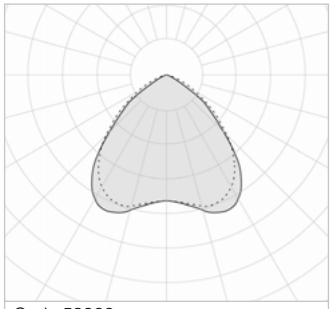
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- double quick connection
- polycarbonate lenses (IK08 - 5J)
- wiring: twin-circuit, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- HACCP versions
- versions with anti-condensation filter
- emergency versions

3F LEM Wide

650°C | IP65 | 1J | IK06





Code 58883

Wide distribution with rectangular shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58881	3F LEM 1 LED 50 CR AMPIO	56	8495	4000	>80	542x115x150
59157	3F LEM 1 LED 50/865 CR AMPIO	56	8495	6500	>80	542x115x150
58885	3F LEM 1+1 LED 100 CR AMPIO	109	16989	4000	>80	1099x115x150
59161	3F LEM 1+1 LED 100/865 CR AMPIO	109	16989	6500	>80	1099x115x150
58882	3F LEM 2 LED 100 CR AMPIO	109	16989	4000	>80	470x542x129
59158	3F LEM 2 LED 100/865 CR AMPIO	109	16989	6500	>80	470x542x129
58883	3F LEM 3 LED 150 CR AMPIO	165	25484	4000	>80	657x542x129
59159	3F LEM 3 LED 150/865 CR AMPIO	165	25484	6500	>80	657x542x129
58884	3F LEM 4 LED 200 CR AMPIO	218	33978	4000	>80	757x542x129
59160	3F LEM 4 LED 200/865 CR AMPIO	218	33978	6500	>80	757x542x129
58886	3F LEM 5 LED 250 CR AMPIO	274	42473	4000	>80	952x542x129

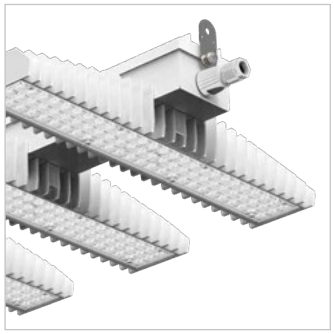
DALI electronic wiring 230V-50/60Hz

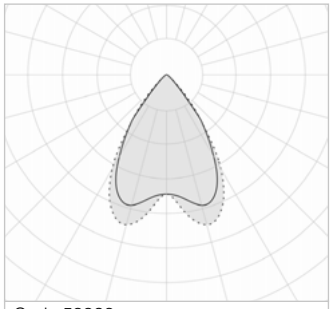
Code	Item	W	lm	K	CRI	L x A x H
58899	3F LEM 1 LED 50 DALI CR AMPIO	56	8495	4000	>80	542x115x150
58903	3F LEM 1+1 LED 100 DALI CR AMPIO	109	16989	4000	>80	1099x115x150
58900	3F LEM 2 LED 100 DALI CR AMPIO	109	16989	4000	>80	470x542x129
58901	3F LEM 3 LED 150 DALI CR AMPIO	165	25484	4000	>80	657x542x129
58902	3F LEM 4 LED 200 DALI CR AMPIO	218	33978	4000	>80	757x542x129
58904	3F LEM 5 LED 250 DALI CR AMPIO	274	42473	4000	>80	952x542x129

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LEM Medium

650°C | IP65 | 1J | IK06





Code 58893

Medium distribution with square shape.

ON/OFF electronic wiring 230V-50/60Hz

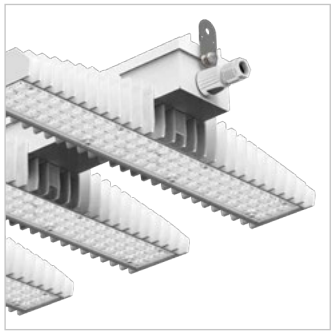
Code	Item	W	lm	K	CRI	L x A x H
58896	3F LEM 1+1 LED 100 CR MEDIO	109	16630	4000	>80	1099x115x150
58893	3F LEM 2 LED 100 CR MEDIO	109	16630	4000	>80	470x542x129
58894	3F LEM 3 LED 150 CR MEDIO	165	24944	4000	>80	657x542x129
58895	3F LEM 4 LED 200 CR MEDIO	218	33259	4000	>80	757x542x129
58897	3F LEM 5 LED 250 CR MEDIO	274	41574	4000	>80	952x542x129

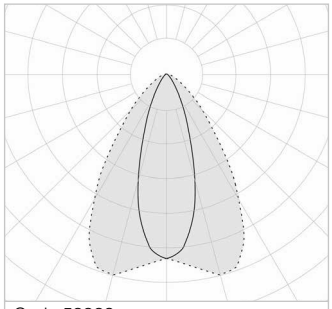
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58914	3F LEM 1+1 LED 100 DALI CR MEDIO	109	16630	4000	>80	1099x115x150
58911	3F LEM 2 LED 100 DALI CR MEDIO	109	16630	4000	>80	470x542x129
58912	3F LEM 3 LED 150 DALI CR MEDIO	165	24944	4000	>80	657x542x129
58913	3F LEM 4 LED 200 DALI CR MEDIO	218	33259	4000	>80	757x542x129
58915	3F LEM 5 LED 250 DALI CR MEDIO	274	41574	4000	>80	952x542x129

3F LEM Concentrated

650°C | IP65 | 1J | IK06





Code 58889

Concentrated elliptical distribution.

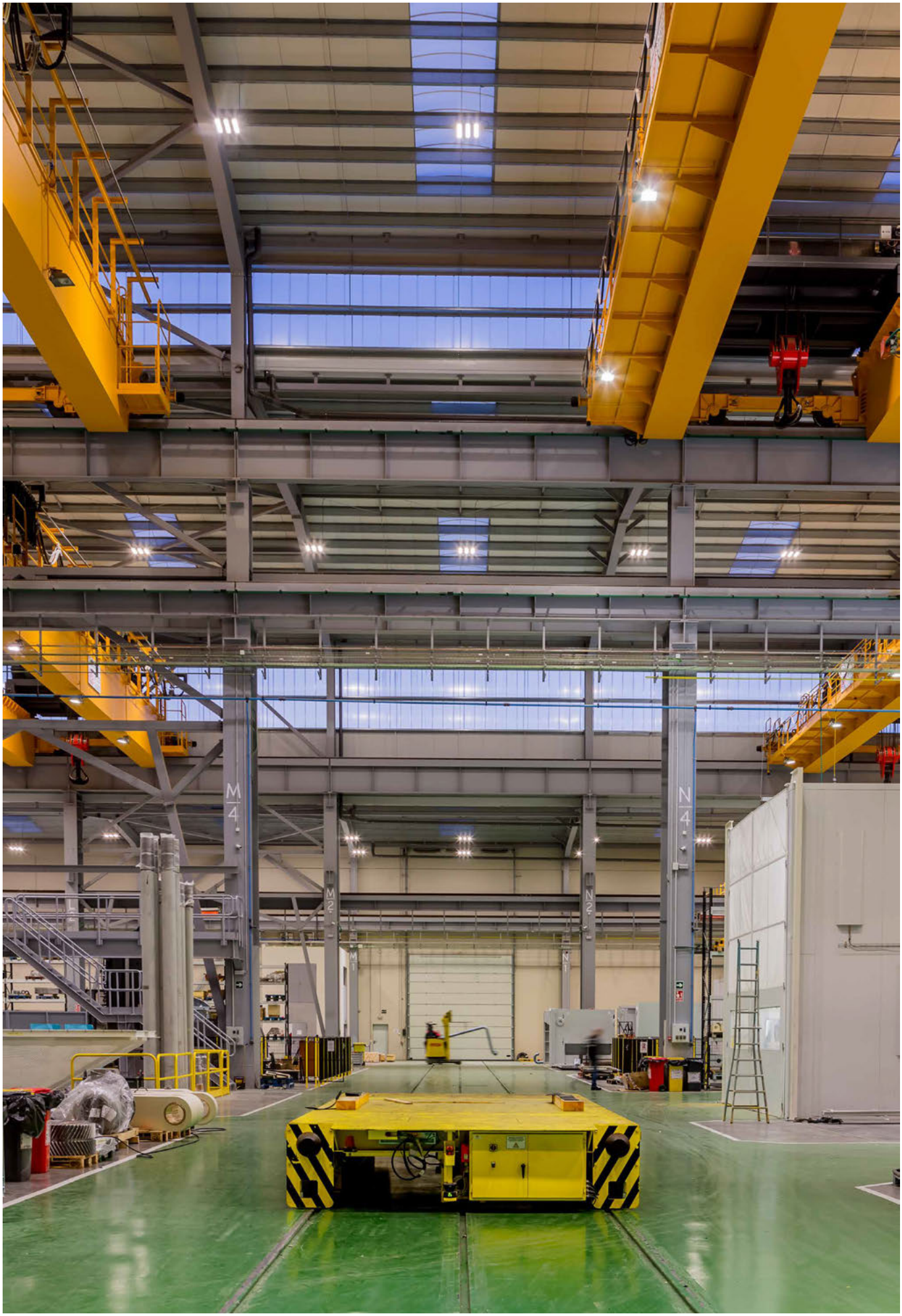
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58887	3F LEM 1 LED 50 CR CONC	56	8135	4000	>80	542x115x150
58888	3F LEM 2 LED 100 CR CONC	109	16270	4000	>80	470x542x129
59164	3F LEM 2 LED 100/865 CR CONC	109	16270	6500	>80	470x542x129
58889	3F LEM 3 LED 150 CR CONC	165	24405	4000	>80	657x542x129
59165	3F LEM 3 LED 150/865 CR CONC	165	24405	6500	>80	657x542x129
58890	3F LEM 4 LED 200 CR CONC	218	32540	4000	>80	757x542x129
59166	3F LEM 4 LED 200/865 CR CONC	218	32540	6500	>80	757x542x129

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58905	3F LEM 1 LED 50 DALI CR CONC	56	8135	4000	>80	542x115x150
58906	3F LEM 2 LED 100 DALI CR CONC	109	16270	4000	>80	470x542x129
58907	3F LEM 3 LED 150 DALI CR CONC	165	24405	4000	>80	657x542x129
58908	3F LEM 4 LED 200 DALI CR CONC	218	32540	4000	>80	757x542x129

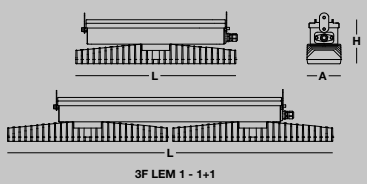
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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


M4
M2
N2
N4

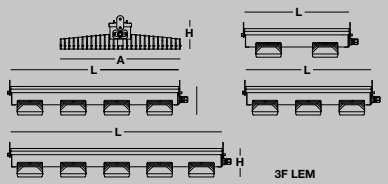
UPDATE

/ Waterproof and corrosion-proof



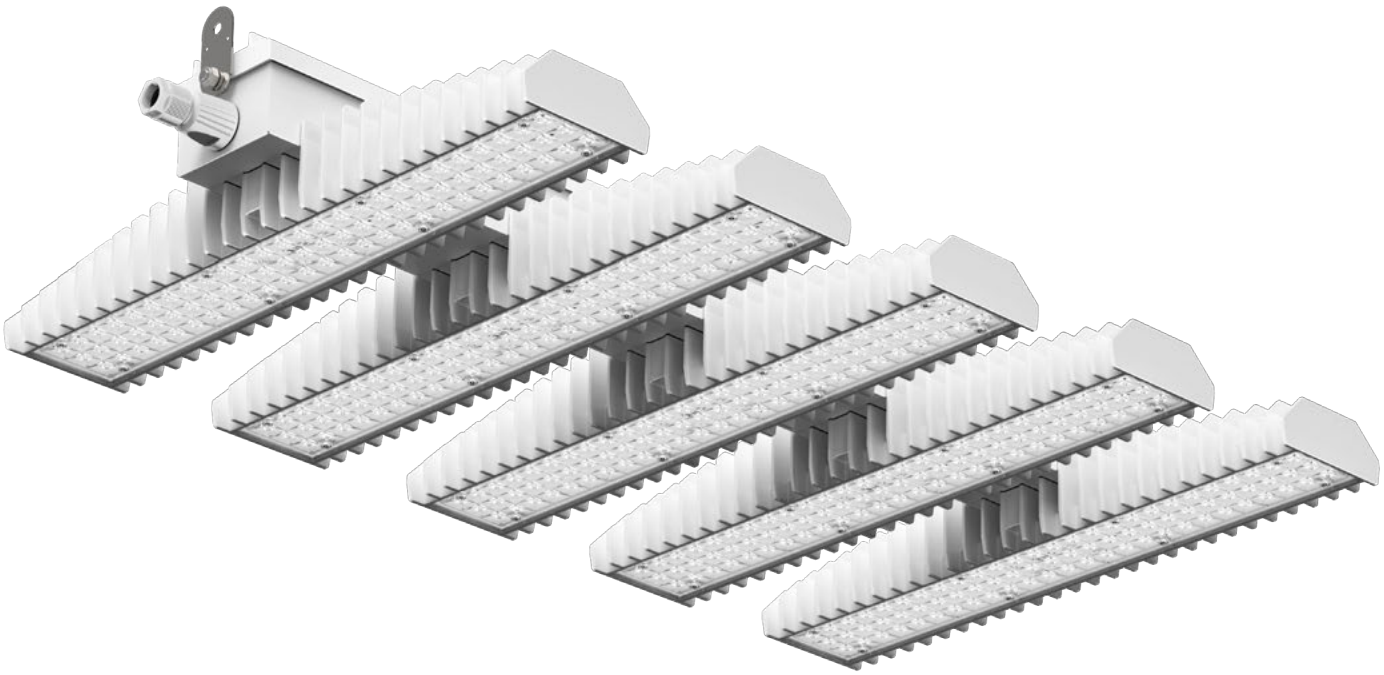


3F LEM 1 - 1+1



3F LEM

Iveco Brescia
Brescia
Italia/Italy



3F LEM High Output

ILLUMINOTECHNICAL

Wide, medium, concentrated symmetric elliptical distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Wiring body in aluminium and galvanised steel anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.

APPLICATIONS

Ambient temperature from -30°C to +55°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

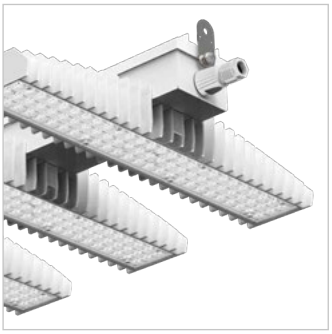
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

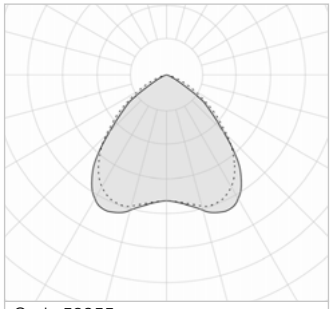
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- double quick connection
- polycarbonate lenses (IK08)
- wiring: twin-circuit, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- HACCP versions
- versions with anti-condensation filter
- emergency versions

3F LEM HO Wide

650°C | IP65 | 1J | IK06





Code 58955

Wide distribution with rectangular shape.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58953	3F LEM 1 HO LED 70 CR AMPIO	71	11303	4000	>80	542x115x150
58957	3F LEM 1+1 HO LED 140 CR AMPIO	138	22606	4000	>80	1099x115x150
58954	3F LEM 2 HO LED 140 CR AMPIO	138	22606	4000	>80	470x542x129
58955	3F LEM 3 HO LED 210 CR AMPIO	207	33909	4000	>80	657x542x129
58956	3F LEM 4 HO LED 280 CR AMPIO	276	45213	4000	>80	757x542x129
58958	3F LEM 5 HO LED 350 CR AMPIO	345	56516	4000	>80	952x542x129

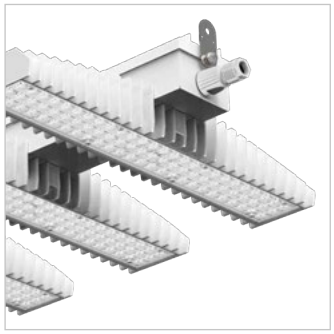
DALI electronic wiring 230V-50/60Hz

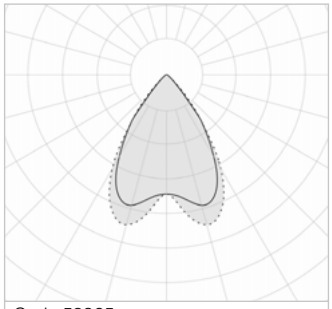
Code	Item	W	lm	K	CRI	L x A x H
58971	3F LEM 1 HO LED 70 DALI CR AMPIO	71	11303	4000	>80	542x115x150
58975	3F LEM 1+1 HO LED 140 DALI CR AMPIO	138	22606	4000	>80	1099x115x150
58972	3F LEM 2 HO LED 140 DALI CR AMPIO	138	22606	4000	>80	470x542x129
58973	3F LEM 3 HO LED 210 DALI CR AMPIO	207	33909	4000	>80	657x542x129
58974	3F LEM 4 HO LED 280 DALI CR AMPIO	276	45213	4000	>80	757x542x129
58976	3F LEM 5 HO LED 350 DALI CR AMPIO	345	56516	4000	>80	952x542x129

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LEM HO Medium

650°C | IP65 | 1J | IK06





Code 58965

Medium distribution with square shape.

ON/OFF electronic wiring 230V-50/60Hz

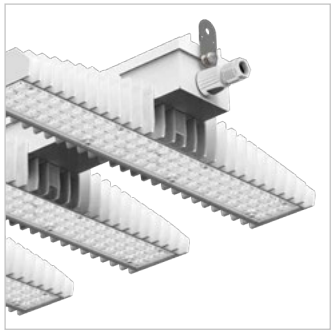
Code	Item	W	lm	K	CRI	L x A x H
58968	3F LEM 1+1 HO LED 140 CR MEDIO	138	22128	4000	>80	1099x115x150
58965	3F LEM 2 HO LED 140 CR MEDIO	138	22128	4000	>80	470x542x129
58966	3F LEM 3 HO LED 210 CR MEDIO	207	33192	4000	>80	657x542x129
58967	3F LEM 4 HO LED 280 CR MEDIO	276	44256	4000	>80	757x542x129
58969	3F LEM 5 HO LED 350 CR MEDIO	345	55320	4000	>80	952x542x129

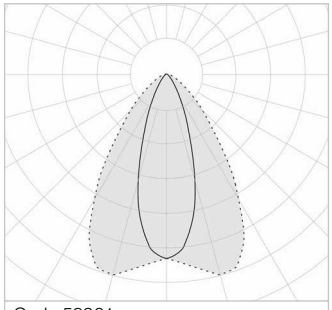
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58986	3F LEM 1+1 HO LED 140 DALI CR MEDIO	138	22128	4000	>80	1099x115x150
58983	3F LEM 2 HO LED 140 DALI CR MEDIO	138	22128	4000	>80	470x542x129
58984	3F LEM 3 HO LED 210 DALI CR MEDIO	207	33192	4000	>80	657x542x129
58985	3F LEM 4 HO LED 280 DALI CR MEDIO	276	44256	4000	>80	757x542x129
58987	3F LEM 5 HO LED 350 DALI CR MEDIO	345	55320	4000	>80	952x542x129

3F LEM HO Concentrated

650°C | IP65 | 1J | IK06





Code 58961

Concentrated elliptical distribution.

ON/OFF electronic wiring 230V-50/60Hz

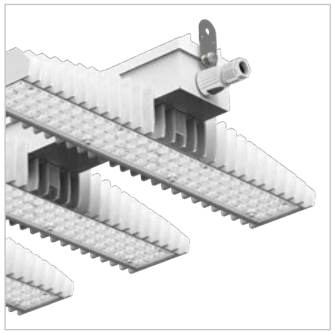
Code	Item	W	lm	K	CRI	L x A x H
58959	3F LEM 1 HO LED 70 CR CONC	71	10825	4000	>80	542x115x150
58960	3F LEM 2 HO LED 140 CR CONC	138	21649	4000	>80	470x542x129
58961	3F LEM 3 HO LED 210 CR CONC	207	32474	4000	>80	657x542x129

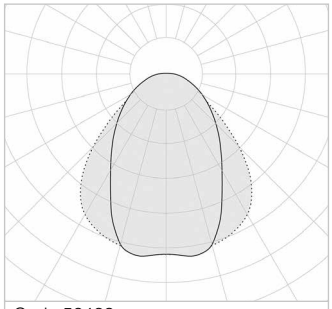
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
58977	3F LEM 1 HO LED 70 DALI CR CONC	71	10825	4000	>80	542x115x150
58978	3F LEM 2 HO LED 140 DALI CR CONC	138	21649	4000	>80	470x542x129
58979	3F LEM 3 HO LED 210 DALI CR CONC	207	32474	4000	>80	657x542x129

3F LEM HO HRL

650°C | IP65 | 1J | IK06





Code 56439

Concentrated distribution (Rack washer).

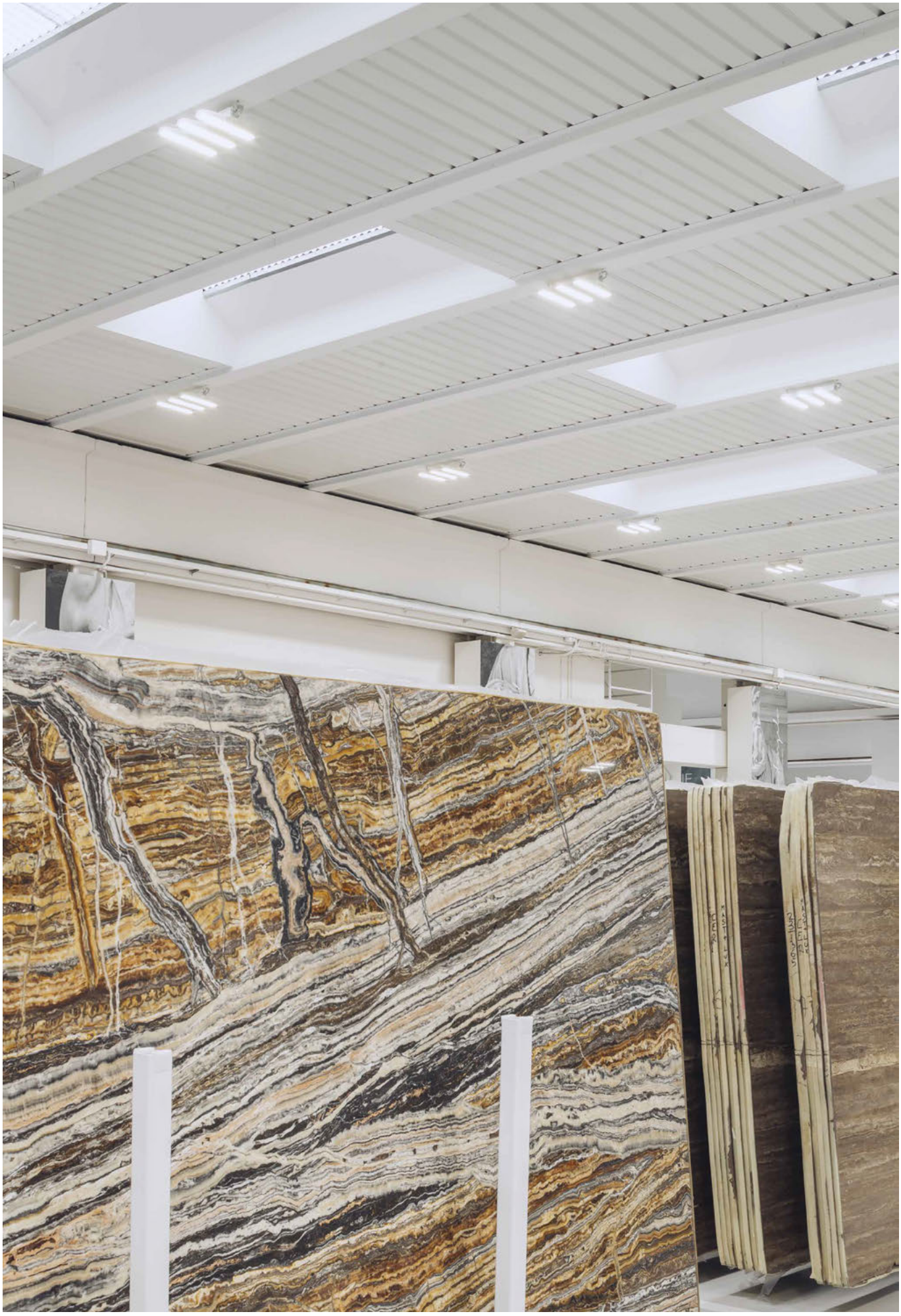
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
56439 NEW	3F LEM 1 HO LED 70 CR HRL	71	11004	4000	>80	542x115x150
56440 NEW	3F LEM 2 HO LED 140 CR HRL	138	22008	4000	>80	470x542x129
56441 NEW	3F LEM 3 HO LED 210 CR HRL	207	33012	4000	>80	657x542x129

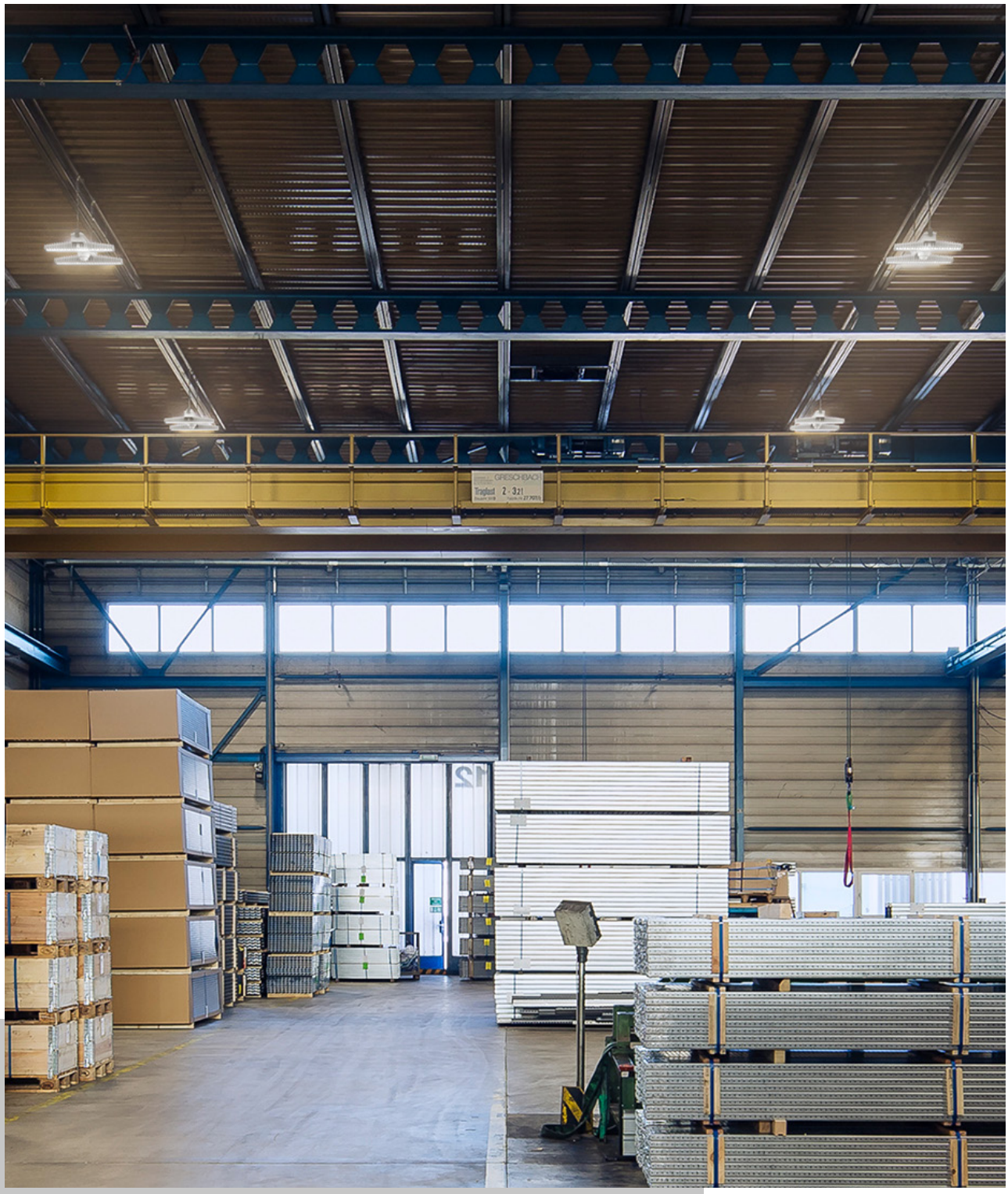
DALI electronic wiring 230V-50/60Hz

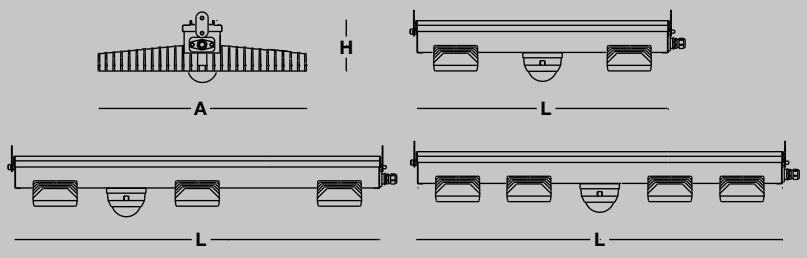
Code	Item	W	lm	K	CRI	L x A x H
56442 NEW	3F LEM 1 HO LED 70 DALI CR HRL	71	11004	4000	>80	542x115x150
56443 NEW	3F LEM 2 HO LED 140 DALI CR HRL	138	22008	4000	>80	470x542x129
56444 NEW	3F LEM 3 HO LED 210 DALI CR HRL	207	33012	4000	>80	657x542x129

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

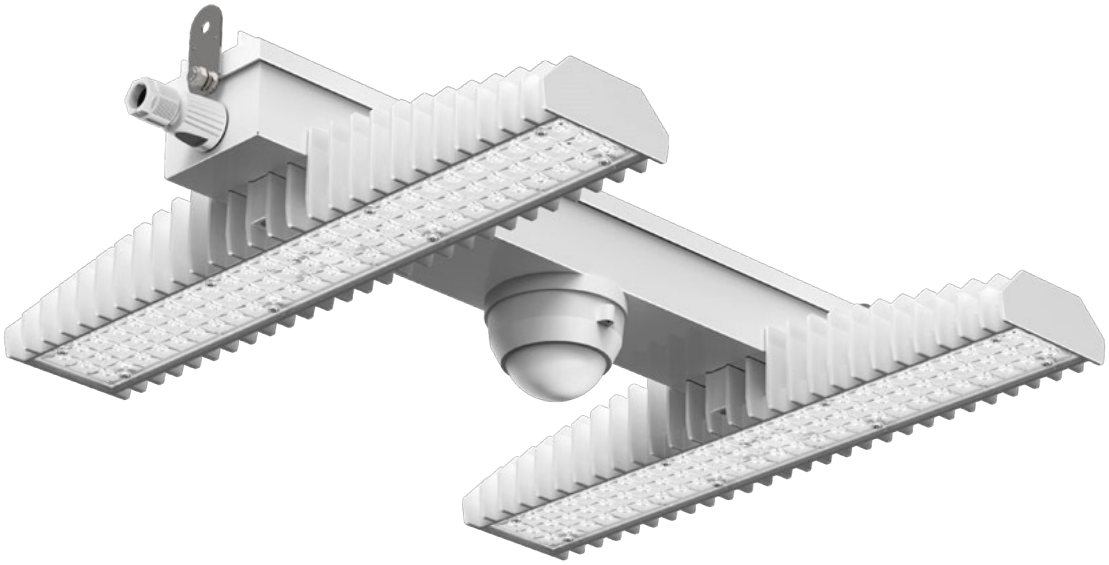


/ Waterproof and corrosion-proof





Forming AG
Möhlin
Switzerland



3F LEM Sensor

ILLUMINOTECHNICAL

Wide, medium, concentrated symmetric elliptical distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Wiring body in aluminium and galvanised steel anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Quick connection via 3/5 P connector.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.
Integrated DALI light and presence sensor on the luminaire, to keep lighting levels constant in accordance with the amount of natural light and the presence of persons.
Turns on and off and is regulated according to the level of light and the presence of persons.

INSTALLATION

Recommended maximum height 13 m.

APPLICATIONS

Ambient temperature from -25°C to +50°C.
Recommended in environments with strong amount of natural light (or areas with staff present discontinuously).
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with polycarbonate lenses.

LIGHT MANAGEMENT

The DALI Sensor products are all fitted with light and presence sensors integrated (page 638).

WARNING

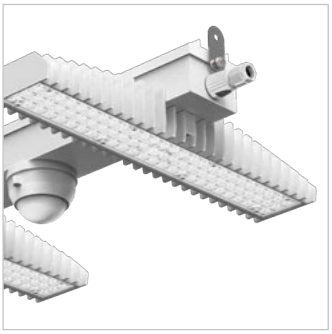
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

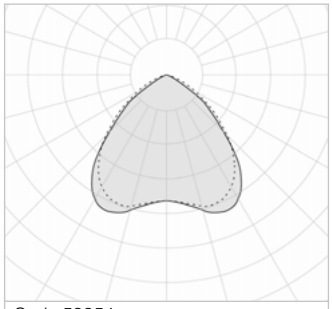
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- presence function
- manual light intensity adjustment
- double quick connection
- polycarbonate lenses (IK08)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- HACCP versions
- versions with anti-condensation filter
- emergency versions

3F LEM Sensor Wide

CE | D | 650°C | IP54 | 0,5J | IK04





Code 59254

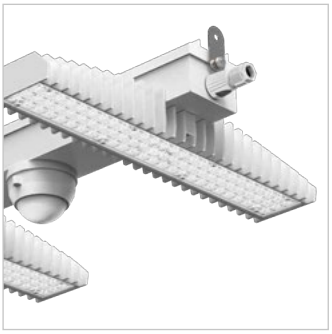
Wide distribution with rectangular shape.
Integrated DALI light and presence sensor on the luminaire, to keep lighting levels constant in accordance with the amount of natural light and the presence of persons.
Turns on and off and is regulated according to the level of light and the presence of persons.

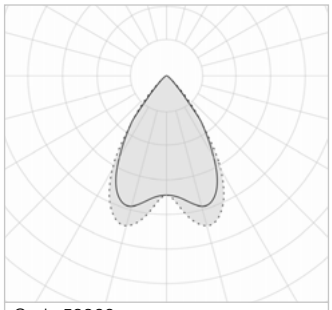
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59253	3F LEM 2 LED 100 DALI Sensor CR AMPIO	110	16989	4000	>80	657x542x129
59254	3F LEM 3 LED 150 DALI Sensor CR AMPIO	166	25484	4000	>80	952x542x129
59255	3F LEM 4 LED 200 DALI Sensor CR AMPIO	219	33978	4000	>80	952x542x129

3F LEM Sensor Medium

CE | D | 650°C | IP54 | 0,5J | IK04





Code 59266

Medium distribution with square shape.
Integrated DALI light and presence sensor on the luminaire, to keep lighting levels constant in accordance with the amount of natural light and the presence of persons.
Turns on and off and is regulated according to the level of light and the presence of persons.

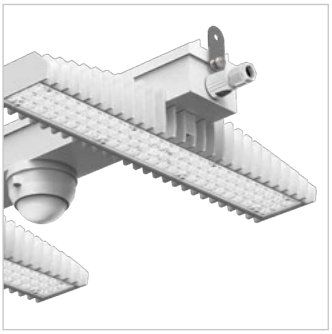
DALI electronic wiring 230V-50/60Hz

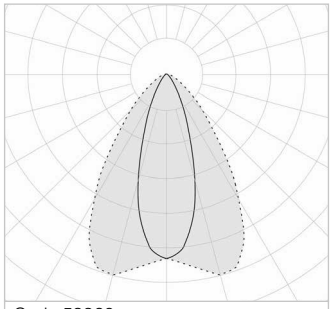
Code	Item	W	lm	K	CRI	L x A x H
59265	3F LEM 2 LED 100 DALI Sensor CR MEDIO	110	16630	4000	>80	657x542x129
59266	3F LEM 3 LED 150 DALI Sensor CR MEDIO	166	24944	4000	>80	952x542x129
59267	3F LEM 4 LED 200 DALI Sensor CR MEDIO	219	33259	4000	>80	952x542x129

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LEM Sensor Concentrated

CE | D | 650°C | IP54 | 0,5J | IK04





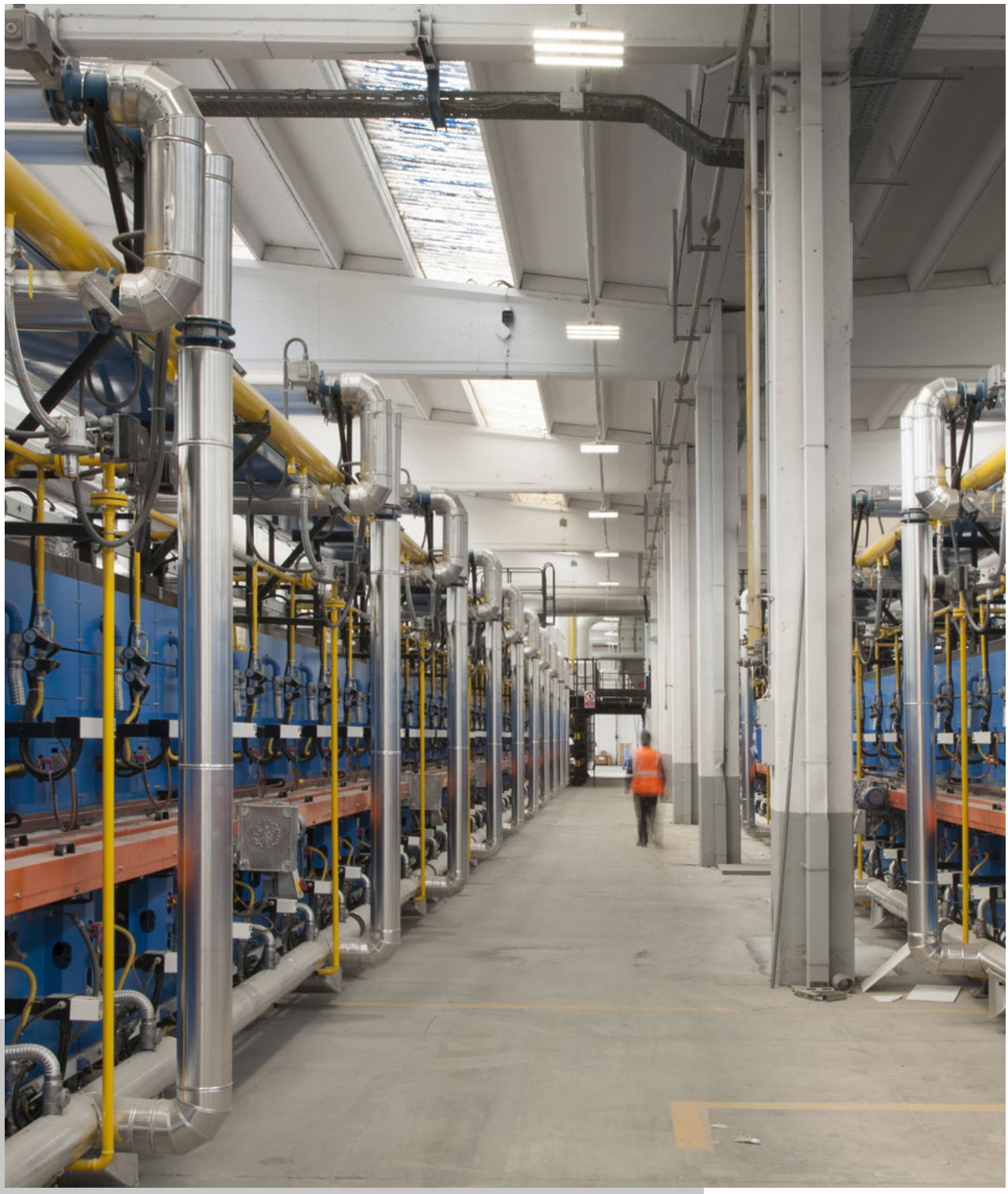
Code 59260

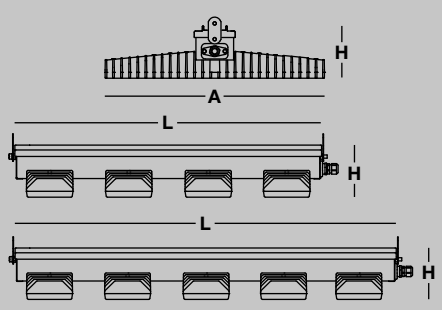
Concentrated elliptical distribution.
Integrated DALI light and presence sensor on the luminaire, to keep lighting levels constant in accordance with the amount of natural light and the presence of persons.
Turns on and off and is regulated according to the level of light and the presence of persons.

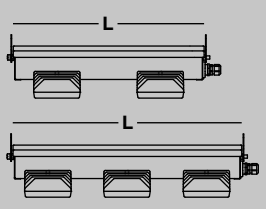
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59259	3F LEM 2 LED 100 DALI Sensor CR CONC	110	16270	4000	>80	657x542x129
59260	3F LEM 3 LED 150 DALI Sensor CR CONC	166	24405	4000	>80	952x542x129
59261	3F LEM 4 LED 200 DALI Sensor CR CONC	219	32540	4000	>80	952x542x129

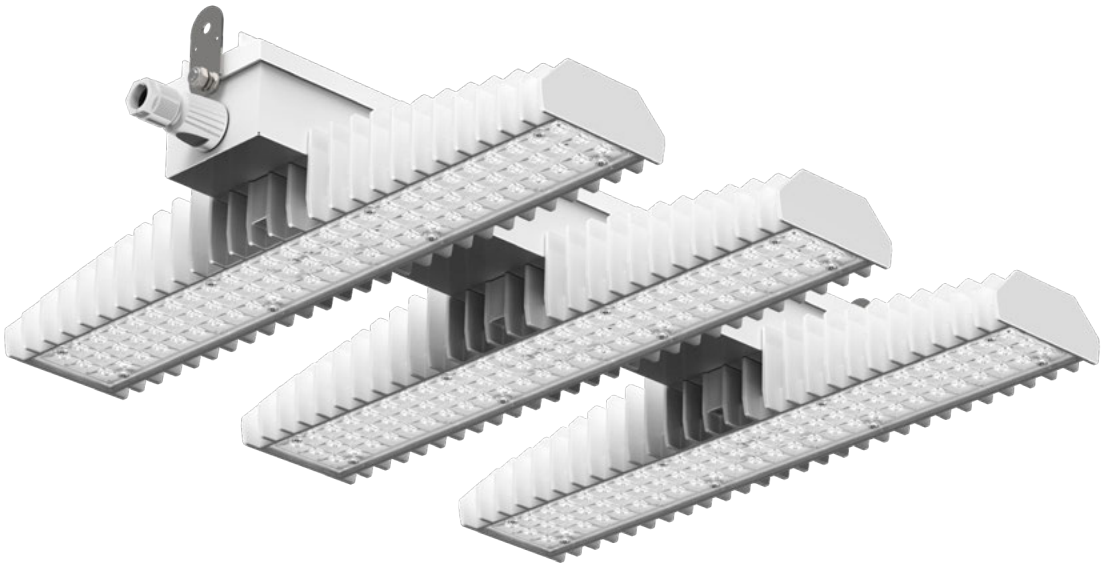
/ Waterproof and corrosion-proof







Gruppo Del Conca
Savignano sul Panaro (MO)
Italia/Italy



3F LEM High Temperature

ILLUMINOTECHNICAL

Wide, medium, concentrated symmetric elliptical distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Luminous flux at +70°C: -13.5%.
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Wiring body in aluminium and galvanised steel anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent polycarbonate, fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.

APPLICATIONS

Ambient temperature from -30°C to +70°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Commercial, industrial and sporting environments (with no high-flying balls), as well as warehouses.

WARNING

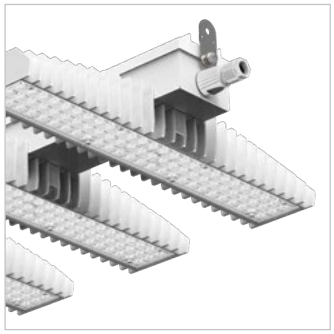
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

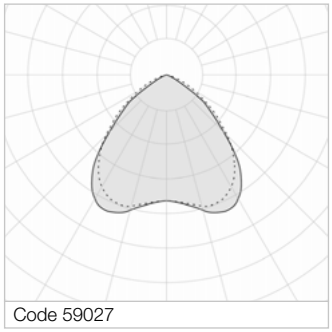
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- double quick connection
- wiring: twin-circuit, dimmable, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- HACCP versions
- versions with anti-condensation filter

3F LEM HT Wide

CE | SAFER FLICKER | D | 850°C | IP65 | 5J | IK08





Code 59027

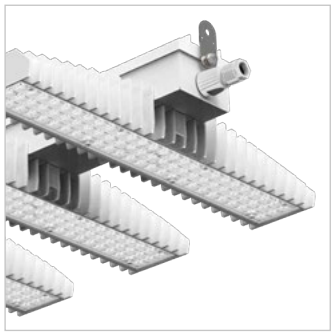
Wide distribution with rectangular shape.

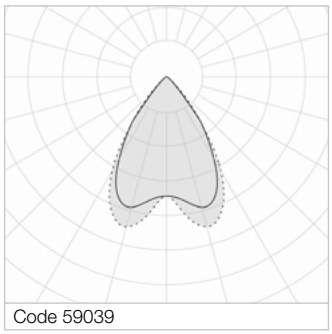
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59026	3F LEM 2 HT LED 60 CR AMPIO	68	10869	4000	>80	470x542x129
59027	3F LEM 3 HT LED 90 CR AMPIO	102	16304	4000	>80	657x542x129
59028	3F LEM 4 HT LED 120 CR AMPIO	136	21739	4000	>80	757x542x129
59030	3F LEM 5 HT LED 150 CR AMPIO	170	27174	4000	>80	952x542x129

3F LEM HT Medium

CE | SAFER FLICKER | D | 850°C | IP65 | 5J | IK08





Code 59039

Medium distribution with square shape.

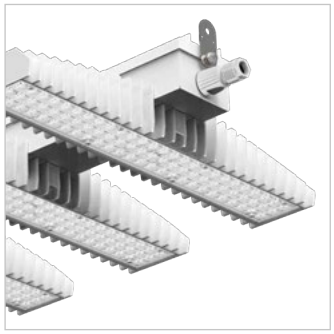
ON/OFF electronic wiring 230V-50/60Hz

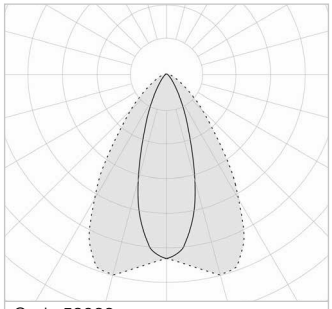
Code	Item	W	lm	K	CRI	L x A x H
59039	3F LEM 4 HT LED 120 CR MEDIO	136	21289	4000	>80	757x542x129
59041	3F LEM 5 HT LED 150 CR MEDIO	170	26611	4000	>80	952x542x129

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LEM HT Concentrated

CE | SAFER FLICKER | D | 850°C | IP65 | 5J | IK08





Code 59033

Concentrated elliptical distribution.

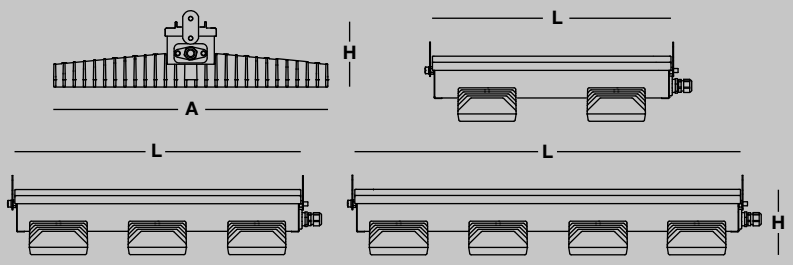
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59032	3F LEM 2 HT LED 60 CR CONC	68	10419	4000	>80	470x542x129
59033	3F LEM 3 HT LED 90 CR CONC	102	15629	4000	>80	657x542x129
59034	3F LEM 4 HT LED 120 CR CONC	136	20838	4000	>80	757x542x129

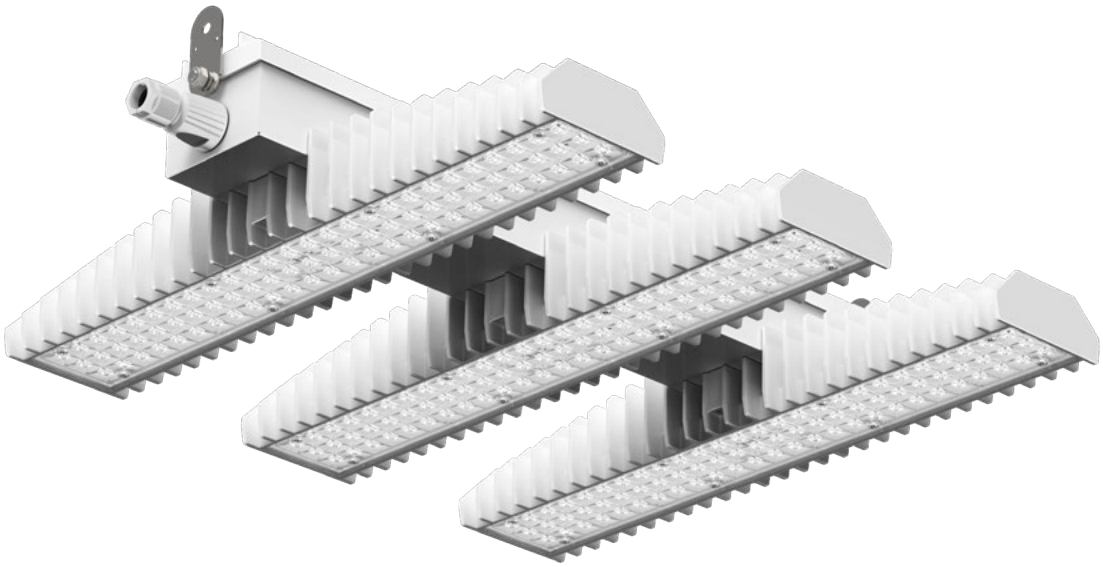
NEW

/ Waterproof and corrosion-proof





Sports center
Papendal
Nederland/Netherlands



3F LEM Sport

ILLUMINOTECHNICAL

Wide symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Aluminium and galvanised steel housing painted white, specially strengthened, anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection in polycarbonate with M20x1,5 cable gland, to access the terminal block positioned on a removable runner.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.

APPLICATIONS

Ambient temperature from -30°C to +55°C.
Luminaire suitable for gyms as weel as sports, commercial, exhibition and industrial environments.
Resistance against ball impacts in accordance with DIN 18032-3.
Dry, dusty indoor environments, subject to occasional water splashes.

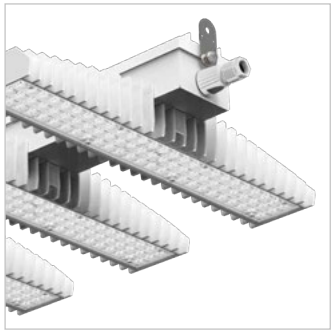
WARNING

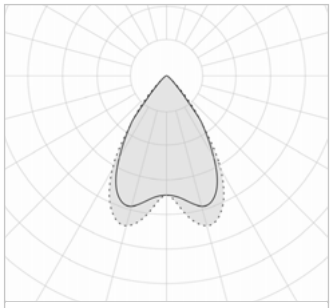
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

ON REQUEST

- different powers or colour temperatures
- double quick connection
- polycarbonate lenses (IK08 - 5J)
- wiring: twin-circuit, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- versions with anti-condensation filter
- emergency versions

3F LEM Sport Medium





Code 59086

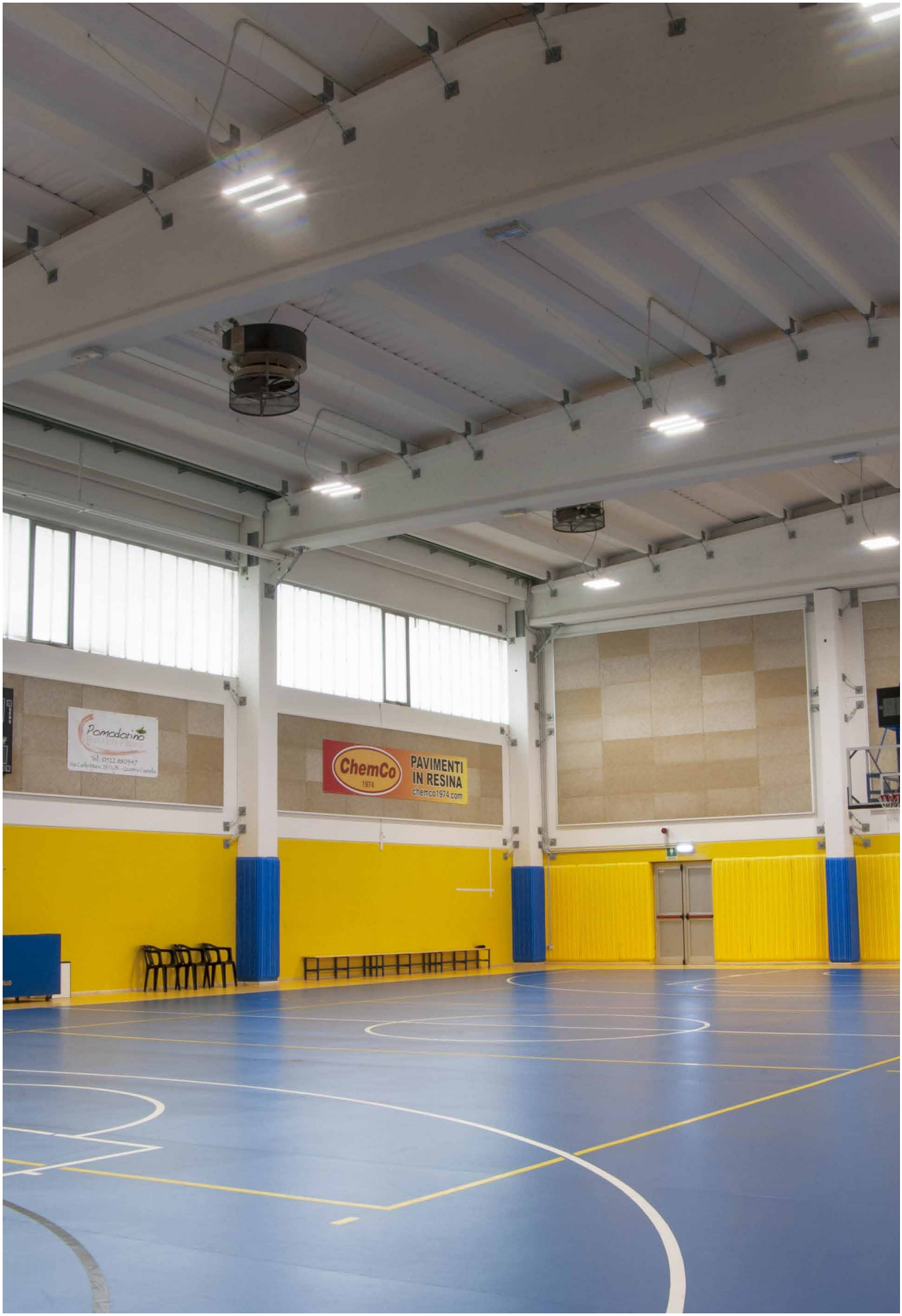
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59086 NEW	3F LEM 2 SPORT LED 100 CR MEDIO	109	16630	4000	>80	470x542x129
59087 NEW	3F LEM 3 SPORT LED 150 CR MEDIO	165	24944	4000	>80	657x542x129
59088 NEW	3F LEM 4 SPORT LED 200 CR MEDIO	218	33259	4000	>80	757x542x129

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59099 NEW	3F LEM 2 SPORT LED 100 DALI CR MEDIO	109	16630	4000	>80	470x542x129
59100 NEW	3F LEM 3 SPORT LED 150 DALI CR MEDIO	165	24944	4000	>80	657x542x129
59101 NEW	3F LEM 4 SPORT LED 200 DALI CR MEDIO	218	33259	4000	>80	757x542x129

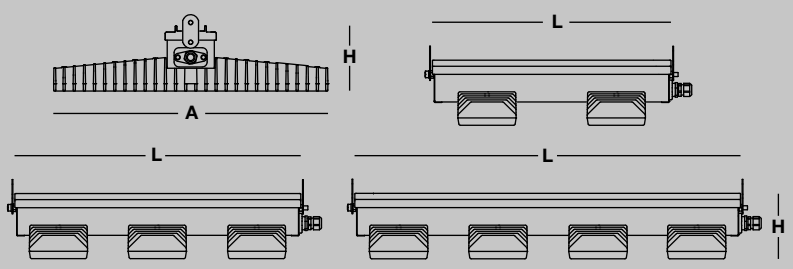
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


Pomodorino
ChemCo
1974
PAVIMENTI
IN RESINA
chemco1974.com

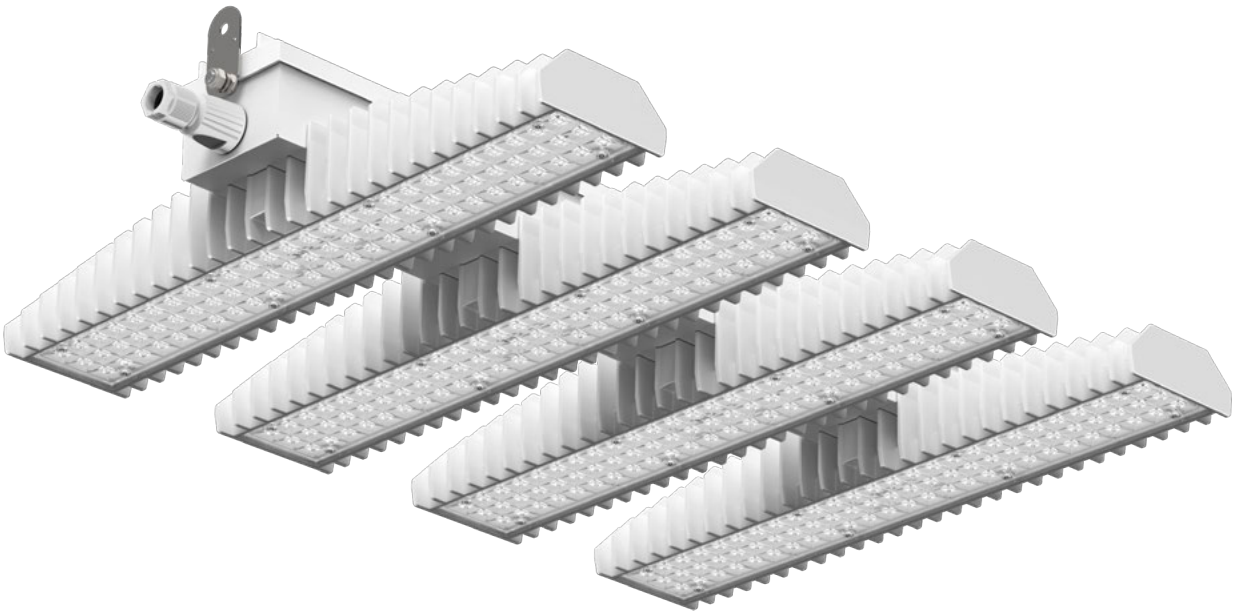
NEW

/ Waterproof and corrosion-proof





Nunspeetse Ruiterclub
Doornspijk
Nederland/Netherlands



3F LEM Sport High Output

ILLUMINOTECHNICAL

Wide symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Passive modular heatsinks in die-casted aluminium, painted in white colour.
To optimize the thermal management of the LED module, the heatsinks are oversized and provided with self-cleaning of cooling fins.
Aluminium and galvanised steel housing painted white, specially strengthened, anchored solidly to the sinks and thermally separated.
3F Lens lenses with high luminous efficiency, transparent methacrylate (PMMA), fixed to the LED modules.
Fixing brackets in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection in polycarbonate with M20x1,5 cable gland, to access the terminal block positioned on a removable runner.
Power unit positioned on a separate compartment by the LED module to ensure optimum temperatures of cabling components, to be inspectable and maintainable.

APPLICATIONS

Ambient temperature from -30°C to +55°C.
Luminaire suitable for gyms as weel as sports, commercial, exhibition and industrial environments.
Resistance against ball impacts in accordance with DIN 18032-3.
Dry, dusty indoor environments, subject to occasional water splashes.

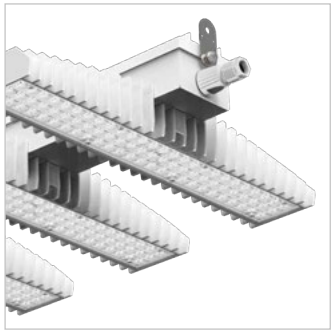
WARNING

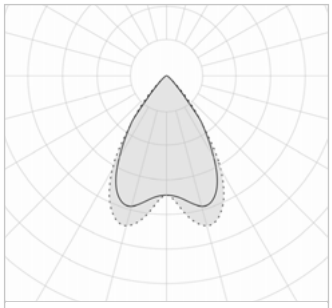
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

ON REQUEST

- different powers or colour temperatures
- double quick connection
- polycarbonate lenses (IK08 - 5J)
- wiring: twin-circuit, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- versions with anti-condensation filter
- emergency versions

3F LEM Sport HO Medium





Code 59269

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59125 NEW	3F LEM 2 HO SPORT LED 180 CR MEDIO	147	22128	4000	>80	470x542x129
59126 NEW	3F LEM 3 HO SPORT LED 210 CR MEDIO	222	33192	4000	>80	657x542x129

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
59138 NEW	3F LEM 2 HO SPORT LED 180 DALI CR MEDIO	147	22128	4000	>80	470x542x129
59139 NEW	3F LEM 3 HO SPORT LED 210 DALI CR MEDIO	222	33192	4000	>80	657x542x129

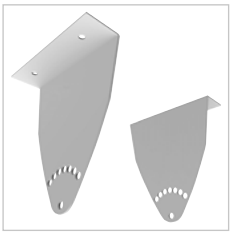
Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F LEM | Accessories



Code	Item
A0652	Pair of ceiling brack. LEM/Rio L

Brackets for mounting of luminaire on ceiling or on bus ducts, stainless steel.
Please note: these brackets do NOT provide free orientation of the luminaire. To allow free orientation, accessories A0651+A0632 must be installed.



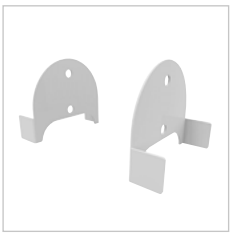
Code	Item
A0632	Pair of inclin. Ceiling brack. LEM/Rio L

Brackets for ceiling mounting, in hot-galvanised steel painted in white polyester.
The bracket A0632 allows the luminaire to be ceiling mounted without the possibility to rotate it. To allow free orientation, both accessories (A0651+A0632) must be installed.



Code	Item
A0654	Pair of wall brackets LEM /Rio L

Brackets for wall mounting, in in hot-galvanised steel painted in white polyester.
The bracket A0654 allows the luminaire to be wall mounted without the possibility to rotate it. To allow free orientation, both accessories (A0651+A0654) must be installed.



Code	Item
A0651	Pair of rot. brack. support LEM/Rio L

Additional bracket that, combined with the A0654 or A0632 accessories, makes it possible for the luminaires to be oriented on the ceiling or the wall, in hot-galvanised steel painted in white polyester.
This accessory must ALWAYS be used with one of the following codes: A0632 - A0654.



Code	Item
A0776	Rotation brack. LEM 1-2/Rio 2L-S
A0777	Rotation brack. LEM 2S-3/Rio 3L
A0778	Rotation brack. LEM 4/Rio 3LS-4L

Brackets for rotating luminaries mounted on ceilings or on bus ducts.



Code	Item
A0728	Cover for food appl. 3F LEM 1
A0733	Cov.food appl.single mod.3F LEM(2-3-4-5)

Dust covers for food processing areas in white-painted galvanised steel.
For a LEM 3, for example, 3 pcs of the cod. A0733 must be ordered. Not available for the 1+1 version. Note: the maximum ambient operating temperatures of the fixtures decrease by 10°C in all families, except for the High Output versions in which the reduction is 5°C. The reduction in the luminous flux emitted is equal to 3% in all models in the range.

HACCP



Code	Item
A0653	Pair of fixing carab.for chain instal.

Snap hooks clips for chain suspension, galvanised steel.



Code	Item
A0811	Transparent glass with gasket (10pcs) The pack contains 10 pieces.
A0812	Moulded glass with gasket (10pcs) The pack contains 10 pieces.

Glass with gasket to protect the louvre compartment from dust. Recommended for use in very dirty environments.



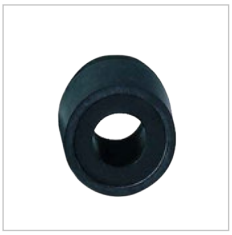
Code	Item
A0242	15SS galvanized steel cable coil 100m The pack contains 100 metres.
A0243	15BF galvanized steel cable coil 500m The pack contains 500 metres.

Anti-fall safety cable Ø 2 mm for fastening the body to the building structure.
Coupling accessory A0714 to one of the two safety cables (A0242 or A0243) provides an anti-fall kit fixing and adjusting the cable on the load-bearing element of the building structure. The cable passes between the two passage holes on the hanging brackets. Suitable for environments subject to impacts or seismic zones.



Code	Item
A0714	Clamp 2 holes susp.- 100 pcs The pack contains 100 pieces.

Clamp in nickel-plated brass suitable for fixing and adjustment of galvanised steel wire (diameter 1,25 mm 1,5 mm - 2 mm), complete with locking screws. The 2 hole clamp allows to block and adjust the cable on a bearing element (part of the building) or on rounded eye bolt.



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



Code	Item
A3021	IR DALI - Remote controller

IR remote control for user, compatible with DALI sensors (incompatible with On-Off and Slave sensors).
Accessory compatible with 3F LEM - Sensor.

CE



Code	Item
A3020	IR DALI - Programmer

IR remote control for programmer, compatible with DALI sensors (incompatible with On-Off and Slave sensors).
Accessory compatible with 3F LEM - Sensor.

CE



Code	Item
A3047 NEW	BLE-IR - Adapter for Smartphone

BLE-IR adapter for Smartphones, compatible with all programmable sensors. Free App available for Android and iOS devices.
Accessory compatible with 3F LEM - Sensor.
Accessory always required to exclude the sensor presence function.



/ Beta 235

An extremely versatile lighting body, **Beta 235** is the ideal lighting design solution for working environments requiring increased levels of protection.

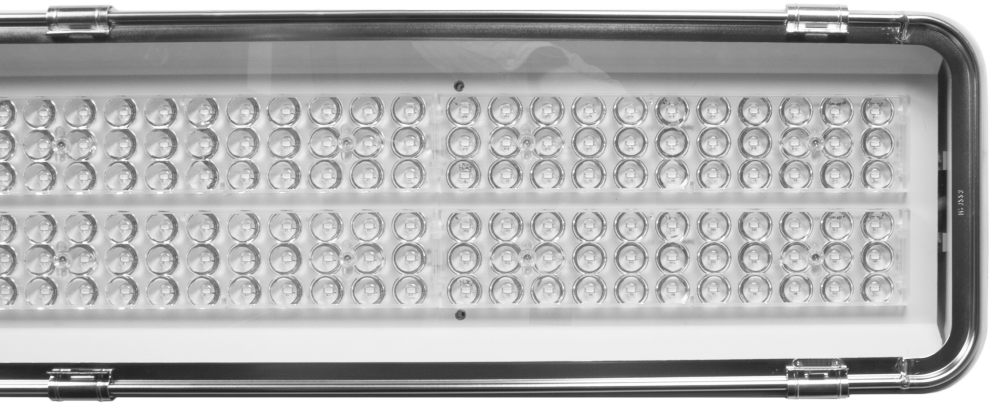
It is equipped with LED sources with very high luminous fluxes (135 lm/W) and is particularly suitable for environments such as warehouses, garages and production areas thanks to the wide range of operation, from -20° C to +45° C.
Available in 655 mm, 1,265 mm and 1,565 mm widths, 3F Beta 235 is composed of a steel or stainless steel body and offers a choice between a glass or polycarbonate diffuser to achieve the best performance for the specific installation location.
In addition to the technical performance and high strength of this product is its ease of installation and maintenance: the new quick connection reduces installation time and makes the work of the installers much easier.



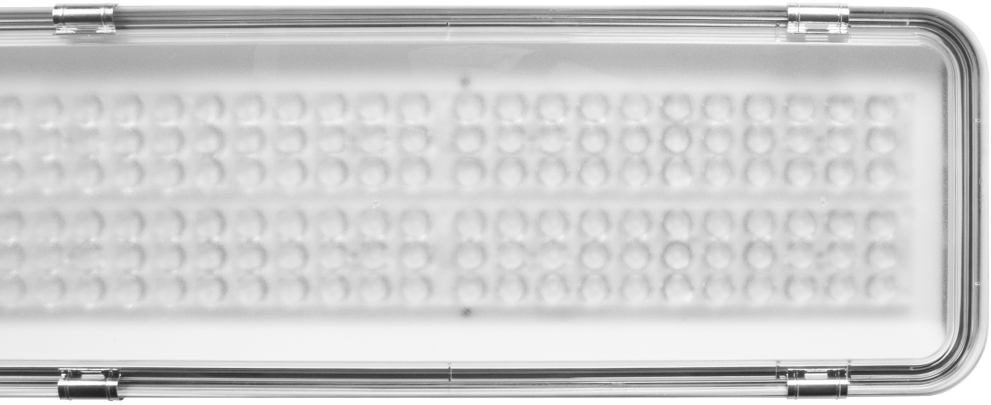
Beta 235
Maserati Automobili
Modena, Italy



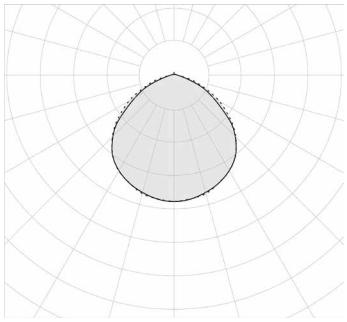
Beta 235 LED 76 VS
Wide



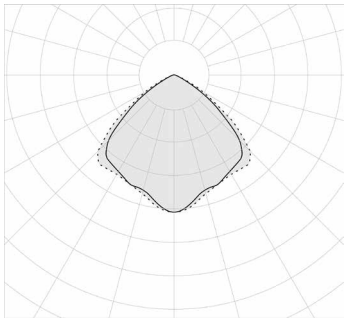
Beta 235 LED 76 VT
Wide



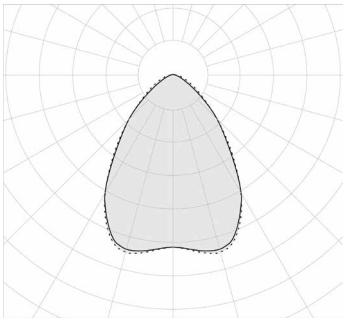
Beta 235 LED 75 PC
Wide



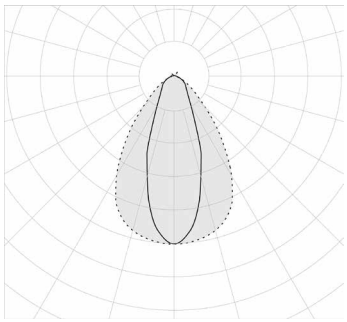
Lite



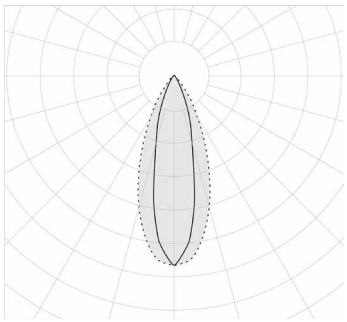
Wide



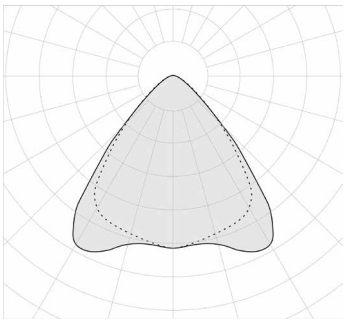
Medium



Concentrated



Iperconcentrated



UGR

Ready for **everything.**

Whether it is a dry environment, a dusty room, or a place with sprays of water, a warehouse, a prison, etc. there is a specific version of Beta 235.

In the case of environments where there are food products or machines with moving parts, reference is made to the VS version.

The other two versions are versatile and generally good even for production plants where a high level of hygiene is required, such as in the food sector.

Finishes

Steel

Stainless steel



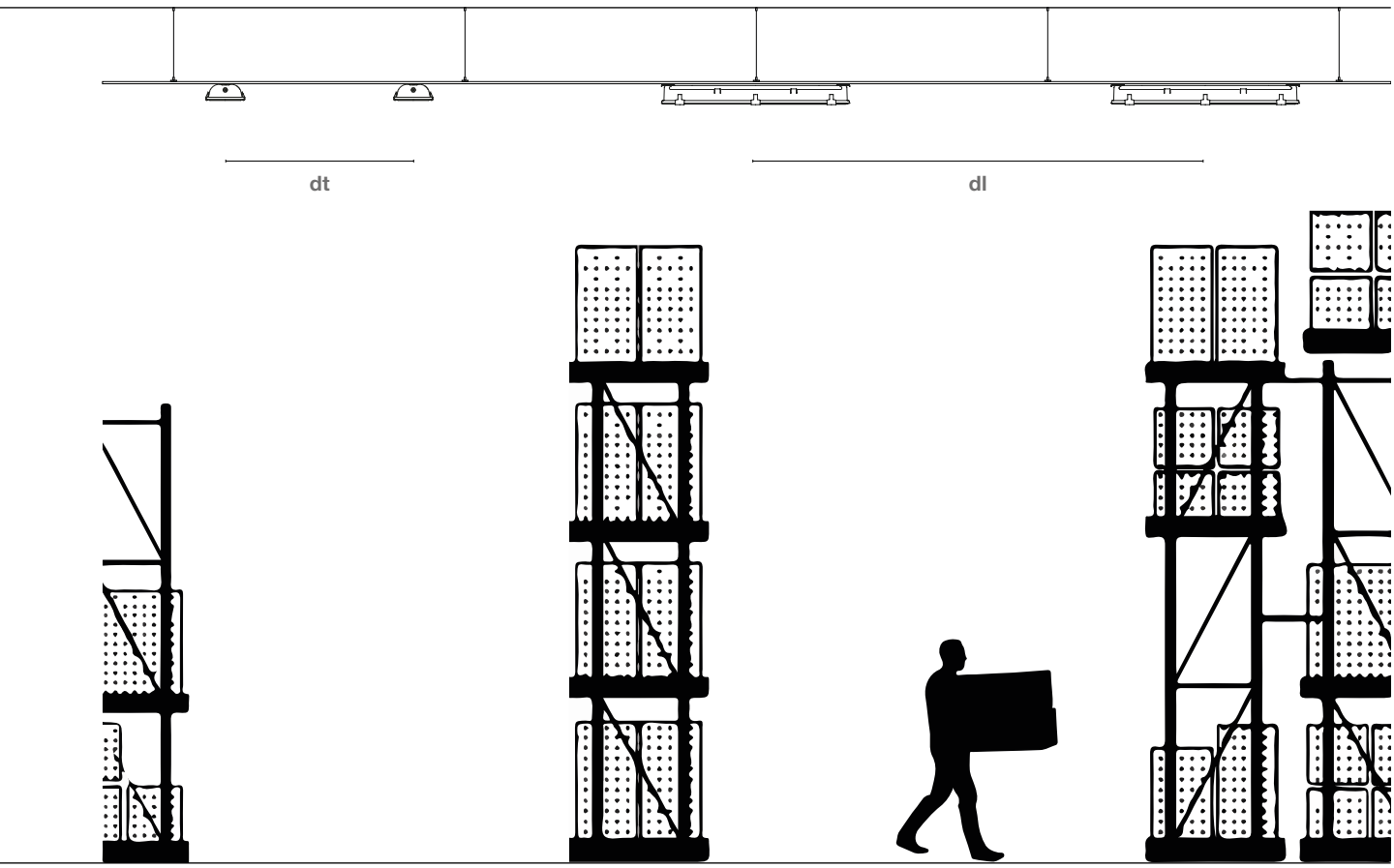
Busbar | Wall | Ceiling | Suspended



Range

Beta 235

	W	lm	LED	Dt x Dl	Distribution	Wiring	L x B x H
Beta 235 75 PC	93 - 112 27,5 - 112 54 - 112 65 -112 92 - 112 54 - 112	15005 - 17825 4143 - 18003 7585 - 17035 9781 - 17076 13051 - 16890 8027 - 17755	/840	1,27 x 1,27 1,20 x 1,30 1,17 x 1,16 0,60 x 1,10 0,40 x 0,70 1,41 x 1,26	Lite Wide Medium Concentrated Iperconcentrated UGR	ON/OFF D2D DALI	655 x 235 x 140 1265 x 235 x 135 1565 x 235 x 107
Beta 235 76 VS	27,5 - 112 54 - 112 65 -112 92 - 112 54 - 112	3793 - 16005 7023 - 15140 8803 - 15325 12293 - 15366 7318 - 15757	/840	1,30 x 1,30 1,00 x 1,00 0,60 x 0,90 0,50 x 0,70 1,16 x 1,08	Wide Medium Concentrated Iperconcentrated UGR	ON/OFF DALI	655 x 235 x 110 1265 x 235 x 105 1565 x 235 x 105
Beta 235 76 VT	54 - 112 54 - 112 65 -112 92 - 112 54 - 112	8367 - 18085 7889 - 17138 9792 - 17117 13578 - 16973 8202 - 17817	/840	1,20 x 1,20 1,20 x 1,19 0,60 x 1,10 0,40 x 0,70 1,48 x 1,36	Wide Medium Concentrated Iperconcentrated UGR	ON/OFF DALI	1265 x 235 x 105 1565 x 235 x 105



Range

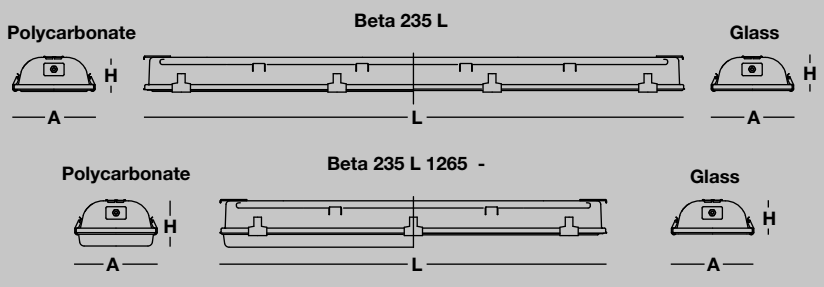
Beta 235

	W	lm	LED	Dt x Dl	Distribution	Wiring	L x B x H
Beta 235 92 PC	54 - 99 27,5 - 99 80 - 99	7981 - 15797 4073 - 15508 11674 - 14552	/840	1,27 x 1,27 1,20 x 1,30 0,40 x 0,70	Lite Wide Iperconcentrated	ON/OFF DALI	655 x 235 x 140 1265 x 235 x 135 1565 x 235 x 107
Beta 235 93 VS	54 - 99 27,5 - 99 80 - 99	7419 - 13902 3728 - 13793 10985 - 13234	/840	1,24 x 1,25 1,30 x 1,30 0,50 x 0,70	Lite Wide Iperconcentrated	ON/OFF DALI	655 x 235 x 110 1265 x 235 x 105 1565 x 235 x 105
Beta 235 93 VT	54 - 99 80 - 99	8229 - 15581 12139 - 14624	/840	1,20 x 1,20 0,40 x 0,70	Wide Iperconcentrated	ON/OFF DALI	1265 x 235 x 105 1565 x 235 x 105

UPDATE

/ Waterproof and corrosion-proof





Borghi S.p.A.
Castelfranco Emilia (MO)
Italia/Italy



Beta 235 Steel

ILLUMINOTECHNICAL

Symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Single-piece housing in pressed steel, powder-coated in white epoxy-polyester.
Ecologic anti-aging injected sealing gasket.
Highly reflective white polyester painted, hot-dip galvanised steel, oversized cable housing reflector, fixed to the body with screws.
Galvanised steel snap-lock clips for diffuser mounting (safety n° 4 per fixture).

ELECTRICAL

Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling, suspended, on busbar or wall-mounted.
For mounting hooks and brackets see accessories on page 571.

APPLICATIONS

Ambient temperature from -20°C to +45°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Industrial environments, warehouses, environments requiring safety luminaires, such as prisons, thanks to the clips that can be locked by bolts (on request).
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with laminated glass.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.

PC version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

VT version
On request, HACCP versions.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

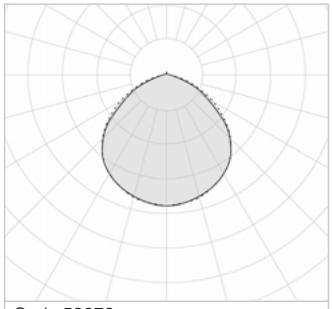
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- laminated glass
- wiring: CLO (page 662), twin-circuit
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- versions with anti-condensation filter
- emergency versions

Beta 235 75 PC Lite

850°C | IP65 | 10J | IK09 | HACCP





Code 52672

Symmetric distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52672 NEW	Beta 235 LED 751x90/840 L1265	93	15005	4000	>80	1265x235x135
52673 NEW	Beta 235 LED 751x110/840 L1265	112	17825	4000	>80	1265x235x135

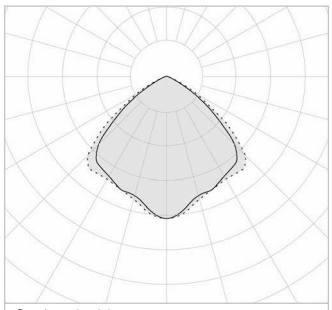
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52674 NEW	Beta 235 LED 751x90/840 D2D L1265	93	15005	4000	>80	1265x235x135
52675 NEW	Beta 235 LED 751x110/840 D2D L1265	112	17825	4000	>80	1265x235x135

Beta 235 75 PC Wide

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52762

Wide symmetric lighting distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L655 and L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52931	Beta 235 LED 751x25 AMPIO L655	27.5	4143	4000	>80	655x235x140
52930	Beta 235 LED 752x20 AMPIO L655	42	6533	4000	>80	655x235x140
52849	Beta 235 LED 751x50 AMPIO L1265	54	8174	4000	>80	1265x235x135
52765	Beta 235 LED 751x60 AMPIO L1565	65	10276	4000	>80	1565x235x107
52846	Beta 235 LED 752x45 AMPIO L1265	92	14369	4000	>80	1265x235x135
52762	Beta 235 LED 752x55 AMPIO L1565	112	18003	4000	>80	1565x235x107

DALI electronic wiring 230V-50/60Hz

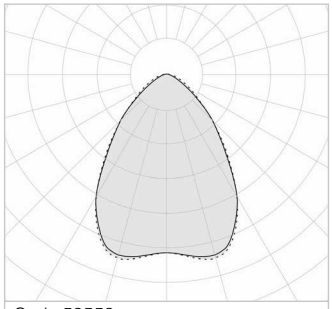
Code	Item	W	lm	K	CRI	L x A x H
52807	Beta 235 LED 751x60 DALI AMPIO L1565	65	10276	4000	>80	1565x235x107
52888	Beta 235 LED 752x45 DALI AMPIO L1265	92	14369	4000	>80	1265x235x135
52804	Beta 235 LED 752x55 DALI AMPIO L1565	112	18003	4000	>80	1565x235x107

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 235 75 PC Medium

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52552

Medium symmetric distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52567	Beta 235 LED 751x50 MEDIO L1265	54	7585	4000	>80	1265x235x135
52553	Beta 235 LED 751x60 MEDIO L1565	65	9781	4000	>80	1565x235x107
52566	Beta 235 LED 752x45 MEDIO L1265	92	13252	4000	>80	1265x235x135
52552	Beta 235 LED 752x55 MEDIO L1565	112	17035	4000	>80	1565x235x107

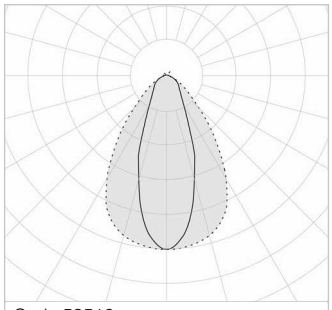
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52574	Beta 235 LED 751x50 DALI MEDIO L1265	54	7585	4000	>80	1265x235x135
52560	Beta 235 LED 751x60 DALI MEDIO L1565	65	9781	4000	>80	1565x235x107
52573	Beta 235 LED 752x45 DALI MEDIO L1265	92	13252	4000	>80	1265x235x135
52559	Beta 235 LED 752x55 DALI MEDIO L1565	112	17035	4000	>80	1565x235x107

Beta 235 75 PC Concentrated

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52510

Concentrated elliptical distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52511	Beta 235 LED 751x60 CONC L1565	65	9781	4000	>80	1565x235x107
52524	Beta 235 LED 752x45 CONC L1265	92	13397	4000	>80	1265x235x135
52510	Beta 235 LED 752x55 CONC L1565	112	17076	4000	>80	1565x235x107

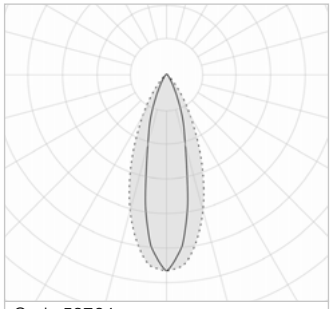
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52518	Beta 235 LED 751x60 DALI CONC L1565	65	9781	4000	>80	1565x235x107
52531	Beta 235 LED 752x45 DALI CONC L1265	92	13397	4000	>80	1265x235x135
52517	Beta 235 LED 752x55 DALI CONC L1565	112	17076	4000	>80	1565x235x107

Beta 235 75 PC Iperconcentrated

850°C IP65 10J IK09 20J IK10 HACCP





Code 52764

Symmetrical elliptical hyperconcentrated distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52848	Beta 235 LED 752x45 IPERCONC L1265	92	13051	4000	>80	1265x235x135
52764	Beta 235 LED 752x55 IPERCONC L1565	112	16890	4000	>80	1565x235x107

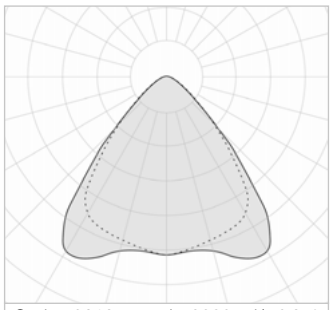
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52890	Beta 235 LED 752x45 DALI IPERCONC L1265	92	13051	4000	>80	1265x235x135
52806	Beta 235 LED 752x55 DALI IPERCONC L1565	112	16890	4000	>80	1565x235x107

Beta 235 75 PC UGR

850°C IP65 10J IK09 20J IK10 HACCP





Code 52619 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52614	Beta 235 LED 751x50 UGR L1265	54	8027	4000	>80	1265x235x135
52615	Beta 235 LED 751x60 UGR L1565	65	10184	4000	>80	1565x235x107
52616	Beta 235 LED 752x45 UGR L1265	92	14023	4000	>80	1265x235x135
52617	Beta 235 LED 752x55 UGR L1565	112	17755	4000	>80	1565x235x107

DALI electronic wiring 230V-50/60Hz

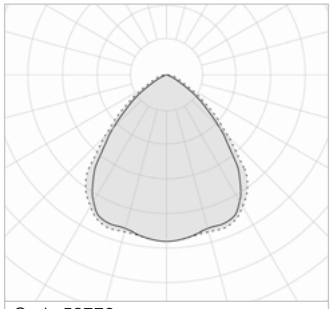
Code	Item	W	lm	K	CRI	L x A x H
52618	Beta 235 LED 751x50 DALI UGR L1265	54	8027	4000	>80	1265x235x135
52619	Beta 235 LED 751x60 DALI UGR L1565	65	10184	4000	>80	1565x235x107
52620	Beta 235 LED 752x45 DALI UGR L1265	92	14023	4000	>80	1265x235x135
52621	Beta 235 LED 752x55 DALI UGR L1565	112	17755	4000	>80	1565x235x107

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Beta 235 76 VS Wide

960°C | IP66 | 10J | IK09





Code 52776

Wide symmetric lighting distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52937	Beta 235 LED 761x25 AMPIO VS L655	27.5	3793	4000	>80	655x235x110
52936	Beta 235 LED 762x20 AMPIO VS L655	42	5821	4000	>80	655x235x110
52863	Beta 235 LED 761x50 AMPIO VS L1265	54	7484	4000	>80	1265x235x105
52779	Beta 235 LED 761x60 AMPIO VS L1565	65	9355	4000	>80	1565x235x105
52860	Beta 235 LED 762x45 AMPIO VS L1265	92	12803	4000	>80	1265x235x105
52776	Beta 235 LED 762x55 AMPIO VS L1565	112	16005	4000	>80	1565x235x105

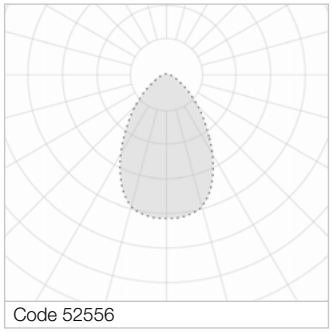
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52821	Beta 235 LED 761x60 DALI AMPIO VS L1565	65	9355	4000	>80	1565x235x105
52902	Beta 235 LED 762x45 DALI AMPIO VS L1265	92	12803	4000	>80	1265x235x105
52818	Beta 235 LED 762x55 DALI AMPIO VS L1565	112	16005	4000	>80	1565x235x105

Beta 235 76 VS Medium

960°C | IP66 | 10J | IK09





Code 52556

Medium symmetric distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52571	Beta 235 LED 761x50 MEDIO VS L1265	54	7023	4000	>80	1265x235x105
52557	Beta 235 LED 761x60 MEDIO VS L1565	65	8780	4000	>80	1565x235x105
52570	Beta 235 LED 762x45 MEDIO VS L1265	92	12111	4000	>80	1265x235x105
52556	Beta 235 LED 762x55 MEDIO VS L1565	112	15140	4000	>80	1565x235x105

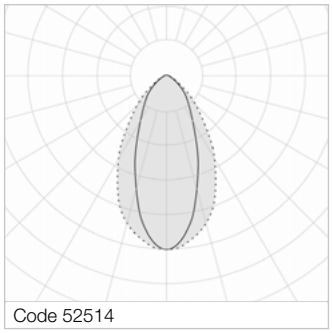
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52578	Beta 235 LED 761x50 DALI MEDIO VS L1265	54	7023	4000	>80	1265x235x105
52564	Beta 235 LED 761x60 DALI MEDIO VS L1565	65	8780	4000	>80	1565x235x105
52577	Beta 235 LED 762x45 DALI MEDIO VS L1265	92	12111	4000	>80	1265x235x105
52563	Beta 235 LED 762x55 DALI MEDIO VS L1565	112	15140	4000	>80	1565x235x105

Beta 235 76 VS Concentrated

960°C | IP66 | 10J | IK09





Code 52514

Concentrated elliptical distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52515	Beta 235 LED 761x60 CONC VS L1565	65	8803	4000	>80	1565x235x105
52528	Beta 235 LED 762x45 CONC VS L1265	92	12260	4000	>80	1265x235x105
52514	Beta 235 LED 762x55 CONC VS L1565	112	15325	4000	>80	1565x235x105

DALI electronic wiring 230V-50/60Hz

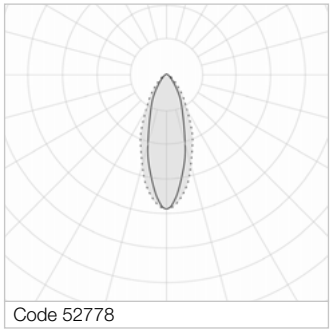
Code	Item	W	lm	K	CRI	L x A x H
52522	Beta 235 LED 761x60 DALI CONC VS L1565	65	8803	4000	>80	1565x235x105
52535	Beta 235 LED 762x45 DALI CONC VS L1265	92	12260	4000	>80	1265x235x105
52521	Beta 235 LED 762x55 DALI CONC VS L1565	112	15325	4000	>80	1565x235x105

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Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 235 76 VS Iperconcentrated

960°C | IP66 | 10J | IK09





Code 52778

Symmetrical elliptical hyperconcentrated distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52862	Beta 235 LED 762x45 IPERCONC VS L1265	92	12293	4000	>80	1265x235x105
52778	Beta 235 LED 762x55 IPERCONC VS L1565	112	15366	4000	>80	1565x235x105

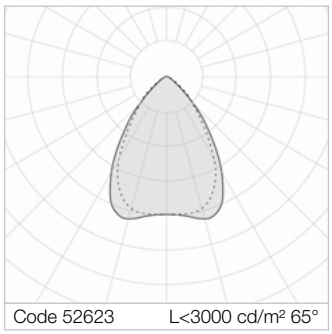
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52904	Beta 235 LED 762x45 DALI IPERCONC VS L1265	92	12293	4000	>80	1265x235x105
52820	Beta 235 LED 762x55 DALI IPERCONC VS L1565	112	15366	4000	>80	1565x235x105

Beta 235 76 VS UGR

960°C | IP66 | 10J | IK09





Code 52623 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52622	Beta 235 LED 761x50 UGR VS L1265	54	7318	4000	>80	1265x235x105
52623	Beta 235 LED 761x60 UGR VS L1565	65	9148	4000	>80	1565x235x105
52624	Beta 235 LED 762x45 UGR VS L1265	92	12606	4000	>80	1265x235x105
52625	Beta 235 LED 762x55 UGR VS L1565	112	15757	4000	>80	1565x235x105

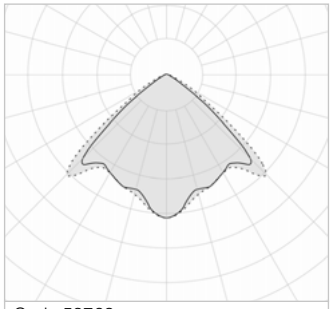
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52626	Beta 235 LED 761x50 DALI UGR VS L1265	54	7318	4000	>80	1265x235x105
52627	Beta 235 LED 761x60 DALI UGR VS L1565	65	9148	4000	>80	1565x235x105
52628	Beta 235 LED 762x45 DALI UGR VS L1265	92	12606	4000	>80	1265x235x105
52629	Beta 235 LED 762x55 DALI UGR VS L1565	112	15757	4000	>80	1565x235x105

Beta 235 76 VT Wide

960°C | IP66 | 10J | IK09





Code 52769

Wide symmetric lighting distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52856	Beta 235 LED 761x50 AMPIO VT L1265	54	8367	4000	>80	1265x235x105
52772	Beta 235 LED 761x60 AMPIO VT L1565	65	10460	4000	>80	1565x235x105
52853	Beta 235 LED 762x45 AMPIO VT L1265	92	14468	4000	>80	1265x235x105
52769	Beta 235 LED 762x55 AMPIO VT L1565	112	18085	4000	>80	1565x235x105

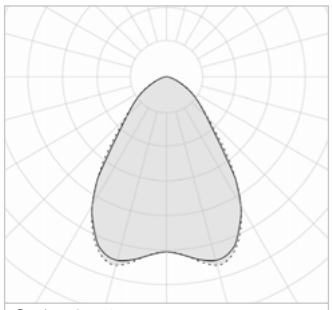
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52814	Beta 235 LED 761x60 DALI AMPIO VT L1565	65	10460	4000	>80	1565x235x105
52895	Beta 235 LED 762x45 DALI AMPIO VT L1265	92	14468	4000	>80	1265x235x105
52811	Beta 235 LED 762x55 DALI AMPIO VT L1565	112	18085	4000	>80	1565x235x105

Beta 235 76 VT Medium

960°C | IP66 | 10J | IK09





Code 52554

Medium symmetric distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52569	Beta 235 LED 761x50 MEDIO VT L1265	54	7889	4000	>80	1265x235x105
52555	Beta 235 LED 761x60 MEDIO VT L1565	65	9861	4000	>80	1565x235x105
52568	Beta 235 LED 762x45 MEDIO VT L1265	92	13710	4000	>80	1265x235x105
52554	Beta 235 LED 762x55 MEDIO VT L1565	112	17138	4000	>80	1565x235x105

DALI electronic wiring 230V-50/60Hz

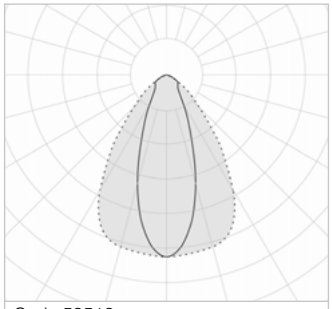
Code	Item	W	lm	K	CRI	L x A x H
52576	Beta 235 LED 761x50 DALI MEDIO VT L1265	54	7889	4000	>80	1265x235x105
52562	Beta 235 LED 761x60 DALI MEDIO VT L1565	65	9861	4000	>80	1565x235x105
52575	Beta 235 LED 762x45 DALI MEDIO VT L1265	92	13710	4000	>80	1265x235x105
52561	Beta 235 LED 762x55 DALI MEDIO VT L1565	112	17138	4000	>80	1565x235x105

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Beta 235 76 VT Concentrated

960°C IP66 10J IK09





Code 52512

Concentrated elliptical distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52513	Beta 235 LED 761x60 CONC VT L1565	65	9792	4000	>80	1565x235x105
52526	Beta 235 LED 762x45 CONC VT L1265	92	13693	4000	>80	1265x235x105
52512	Beta 235 LED 762x55 CONC VT L1565	112	17117	4000	>80	1565x235x105

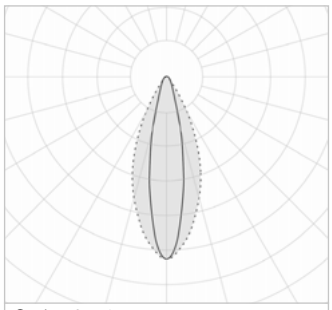
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52520	Beta 235 LED 761x60 DALI CONC VT L1565	65	9792	4000	>80	1565x235x105
52533	Beta 235 LED 762x45 DALI CONC VT L1265	92	13693	4000	>80	1265x235x105
52519	Beta 235 LED 762x55 DALI CONC VT L1565	112	17117	4000	>80	1565x235x105

Beta 235 76 VT Iperconcentrated

960°C IP66 10J IK09





Code 52771

Symmetrical elliptical hyperconcentrated distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52855	Beta 235 LED 762x45 IPERCONC VT L1265	92	13578	4000	>80	1265x235x105
52771	Beta 235 LED 762x55 IPERCONC VT L1565	112	16973	4000	>80	1565x235x105

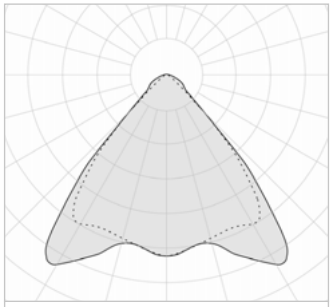
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52897	Beta 235 LED 762x45 DALI IPERCONC VT L1265	92	13578	4000	>80	1265x235x105
52813	Beta 235 LED 762x55 DALI IPERCONC VT L1565	112	16973	4000	>80	1565x235x105

Beta 235 76 VT UGR

960°C | IP66 | 10J | IK09





Code 52631 L<3000 cd/m² 65°

Controlled symmetric distribution.
Average luminance <3000 cd/m² for radial angles >65°.
VT transparent glass, non-combustible, single-piece perimeter frame in galvanised steel.
Methacrylate (PMMA) lenses with external flat surface.

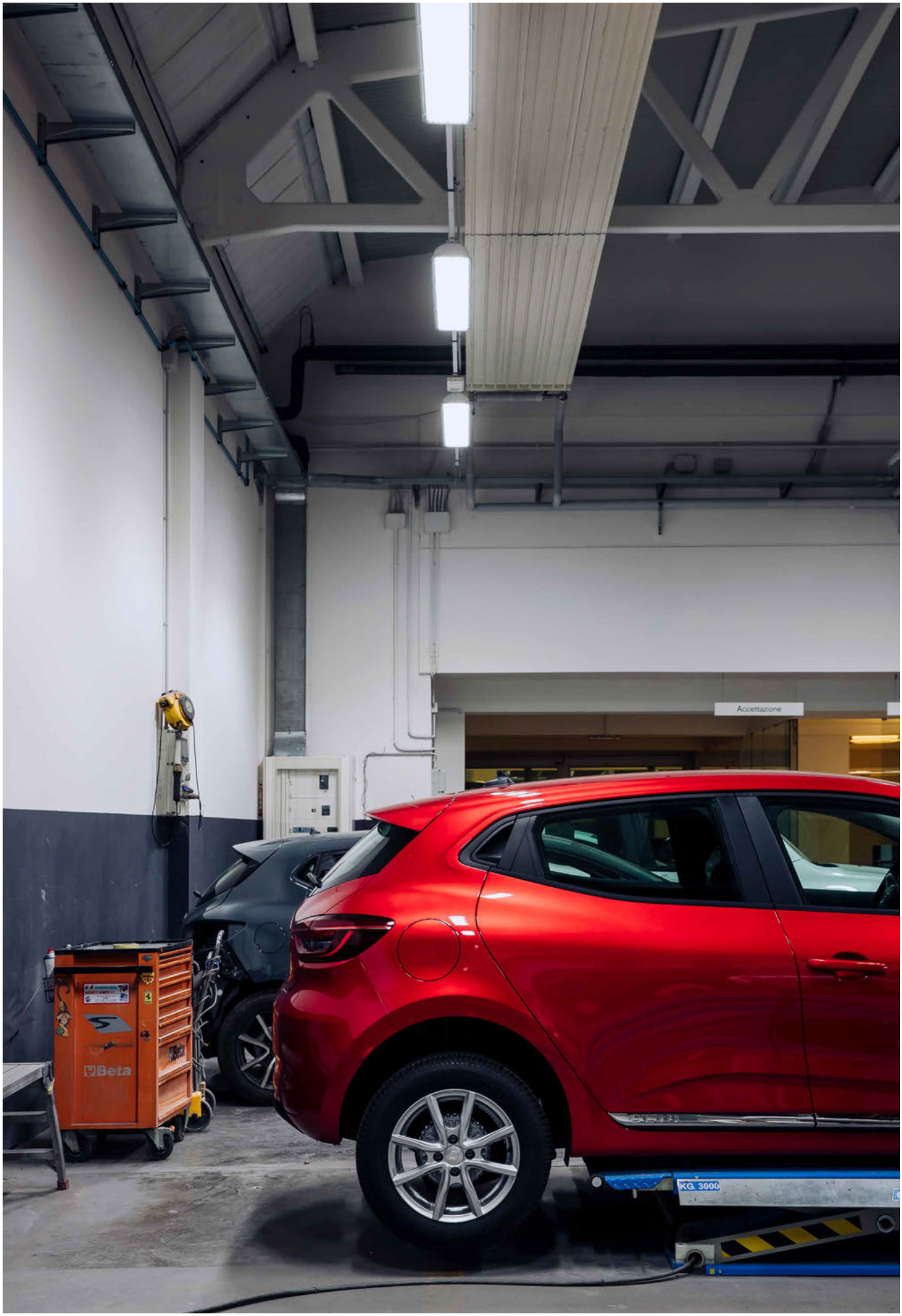
ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52630	Beta 235 LED 761x50 UGR VT L1265	54	8202	4000	>80	1265x235x105
52631	Beta 235 LED 761x60 UGR VT L1565	65	10253	4000	>80	1565x235x105
52632	Beta 235 LED 762x45 UGR VT L1265	92	14253	4000	>80	1265x235x105
52633	Beta 235 LED 762x55 UGR VT L1565	112	17817	4000	>80	1565x235x105

DALI electronic wiring 230V-50/60Hz

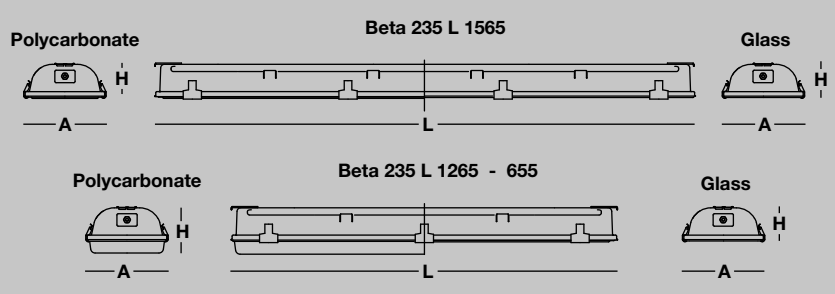
Code	Item	W	lm	K	CRI	L x A x H
52634	Beta 235 LED 761x50 DALI UGR VT L1265	54	8202	4000	>80	1265x235x105
52635	Beta 235 LED 761x60 DALI UGR VT L1565	65	10253	4000	>80	1565x235x105
52636	Beta 235 LED 762x45 DALI UGR VT L1265	92	14253	4000	>80	1265x235x105
52637	Beta 235 LED 762x55 DALI UGR VT L1565	112	17817	4000	>80	1565x235x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**


Accettazione
Beta
KG. 3000

/ Waterproof and corrosion-proof





Carrozzeria Ford Azzurra
Cuneo
Italia/Italy



Beta 235 Stainless Steel

ILLUMINOTECHNICAL

Symmetric distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing in AISI 304 stainless steel, pressed in one single piece.
Oversized gear-tray reflector unit in highly reflective white painted hot-galvanised steel.
Stainless steel snap-lock clips for diffuser mounting (safety n° 4 per fixture).

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection via 3/5 P connector.

INSTALLATION

Ceiling, suspended, on busbar or wall-mounted.
For mounting hooks and brackets see accessories on page 571.

APPLICATIONS

Ambient temperature from -20°C to +45°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Any environments except the ones where the luminaire materials are unsuitable.
Environments requiring safety luminaires, such as prisons, thanks to the clips that can be locked by bolts (on request).
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with laminated glass.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.

PC version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

VT version
On request, HACCP versions.

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

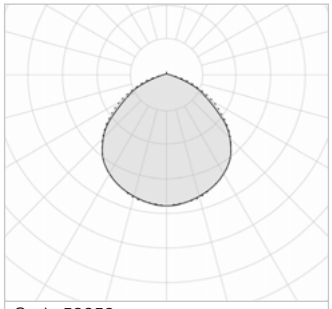
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- laminated glass
- wiring: CLO (page 662), twin-circuit
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- versions with anti-condensation filter
- emergency versions

Beta 235 92 PC Lite

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52658

Symmetric distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52655	Beta 235 LED 921x50 L1265	54	7981	4000	>80	1265x235x135
52656	Beta 235 LED 921x60 L1565	65	10276	4000	>80	1565x235x107
52657	Beta 235 LED 922x40 L1265	80	12738	4000	>80	1265x235x135
52658	Beta 235 LED 922x50 L1565	99	15797	4000	>80	1565x235x107

DALI electronic wiring 230V-50/60Hz

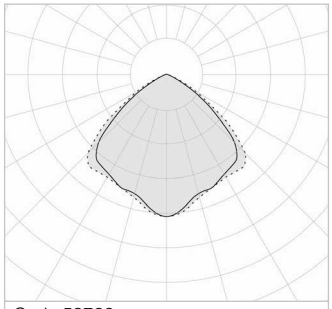
Code	Item	W	lm	K	CRI	L x A x H
52659	Beta 235 LED 921x50 DALI L1265	54	7981	4000	>80	1265x235x135
52660	Beta 235 LED 921x60 DALI L1565	65	10276	4000	>80	1565x235x107
52661	Beta 235 LED 922x40 DALI L1265	80	12738	4000	>80	1265x235x135
52662	Beta 235 LED 922x50 DALI L1565	99	15797	4000	>80	1565x235x107

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 235 92 PC Wide

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52783

Wide symmetric lighting distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L655 and L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52940	Beta 235 LED 921x25 AMPIO L655	27.5	4073	4000	>80	655x235x140
52939	Beta 235 LED 922x15 AMPIO L655	34	5175	4000	>80	655x235x140
52870	Beta 235 LED 921x50 AMPIO L1265	54	8036	4000	>80	1265x235x135
52786	Beta 235 LED 921x60 AMPIO L1565	65	10103	4000	>80	1565x235x107
52867	Beta 235 LED 922x40 AMPIO L1265	80	12843	4000	>80	1265x235x135
52783	Beta 235 LED 922x50 AMPIO L1565	99	15508	4000	>80	1565x235x107

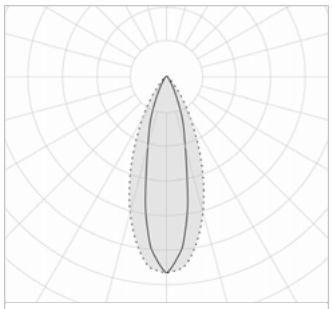
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52828	Beta 235 LED 921x60 DALI AMPIO L1565	65	10103	4000	>80	1565x235x107
52909	Beta 235 LED 922x40 DALI AMPIO L1265	80	12843	4000	>80	1265x235x135
52825	Beta 235 LED 922x50 DALI AMPIO L1565	99	15508	4000	>80	1565x235x107

Beta 235 92 PC Iperconcentrated

850°C | IP65 | 10J | IK09 | 20J | IK10 | HACCP





Code 52785

Symmetrical elliptical hyperconcentrated distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection moulded.
Attention: the diffuser supplied with our L1265 long luminaires is higher than the one which is supplied with our L1565 long versions (please consult dimensions table).
Methacrylate (PMMA) lenses with external flat surface.
L1565: mechanical strength to impacts IK09 (10 joule).
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52869	Beta 235 LED 922x40 IPERCONC L1265	80	11674	4000	>80	1265x235x135
52785	Beta 235 LED 922x50 IPERCONC L1565	99	14552	4000	>80	1565x235x107

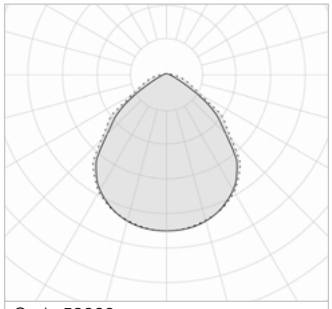
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52911	Beta 235 LED 922x40 DALI IPERCONC L1265	80	11674	4000	>80	1265x235x135
52827	Beta 235 LED 922x50 DALI IPERCONC L1565	99	14552	4000	>80	1565x235x107

Beta 235 93 VS Lite

960°C | IP65 | 10J | IK09





Code 52666

Symmetric distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in stainless steel.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52663	Beta 235 LED 931x50 VS L1265	54	7419	4000	>80	1265x235x105
52664	Beta 235 LED 931x60 VS L1565	65	9275	4000	>80	1565x235x105
52665	Beta 235 LED 932x40 VS L1265	80	11539	4000	>80	1265x235x105
52666	Beta 235 LED 932x50 VS L1565	99	13902	4000	>80	1565x235x105

DALI electronic wiring 230V-50/60Hz

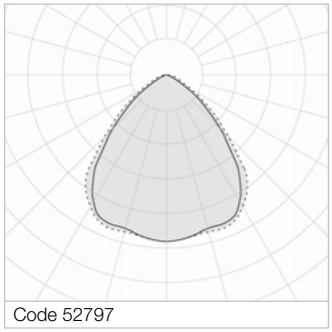
Code	Item	W	lm	K	CRI	L x A x H
52667	Beta 235 LED 931x50 DALI VS L1265	54	7419	4000	>80	1265x235x105
52668	Beta 235 LED 931x60 DALI VS L1565	65	9275	4000	>80	1565x235x105
52669	Beta 235 LED 932x40 DALI VS L1265	80	11539	4000	>80	1265x235x105
52670	Beta 235 LED 932x50 DALI VS L1565	99	13902	4000	>80	1565x235x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 235 93 VS Wide

960°C | IP65 | 10J | IK09





Code 52797

Wide symmetric lighting distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in stainless steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52946	Beta 235 LED 931x25 AMPIO VS L655	27.5	3728	4000	>80	655x235x110
52945	Beta 235 LED 932x15 AMPIO VS L655	34	4613	4000	>80	655x235x110
52884	Beta 235 LED 931x50 AMPIO VS L1265	54	7355	4000	>80	1265x235x105
52800	Beta 235 LED 931x60 AMPIO VS L1565	65	9194	4000	>80	1565x235x105
52881	Beta 235 LED 932x40 AMPIO VS L1265	80	11449	4000	>80	1265x235x105
52797	Beta 235 LED 932x50 AMPIO VS L1565	99	13793	4000	>80	1565x235x105

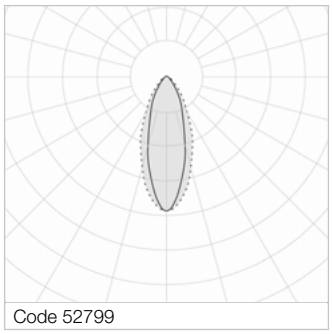
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52842	Beta 235 LED 931x60 DALI AMPIO VS L1565	65	9194	4000	>80	1565x235x105
52923	Beta 235 LED 932x40 DALI AMPIO VS L1265	80	11449	4000	>80	1265x235x105
52839	Beta 235 LED 932x50 DALI AMPIO VS L1565	99	13793	4000	>80	1565x235x105

Beta 235 93 VS Iperconcentrated

960°C | IP65 | 10J | IK09





Code 52799

Symmetrical elliptical hyperconcentrated distribution.
VS moulded anti-glare glass, non-combustible, single-piece perimeter frame in stainless steel.
Methacrylate (PMMA) lenses with external flat surface.
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52883	Beta 235 LED 932x40 IPERCONC VS L1265	80	10985	4000	>80	1265x235x105
52799	Beta 235 LED 932x50 IPERCONC VS L1565	99	13234	4000	>80	1565x235x105

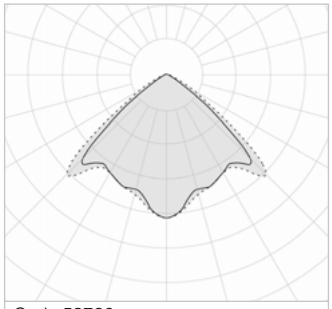
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52925	Beta 235 LED 932x40 DALI IPERCONC VS L1265	80	10985	4000	>80	1265x235x105
52841	Beta 235 LED 932x50 DALI IPERCONC VS L1565	99	13234	4000	>80	1565x235x105

Beta 235 93 VT Wide

960°C | IP65 | 10J | IK09





Code 52790

Wide symmetric lighting distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in stainless steel.
Methacrylate (PMMA) lenses with external flat surface.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52877	Beta 235 LED 931x50 AMPIO VT L1265	54	8229	4000	>80	1265x235x105
52793	Beta 235 LED 931x60 AMPIO VT L1565	65	10287	4000	>80	1565x235x105
52874	Beta 235 LED 932x40 AMPIO VT L1265	80	12933	4000	>80	1265x235x105
52790	Beta 235 LED 932x50 AMPIO VT L1565	99	15581	4000	>80	1565x235x105

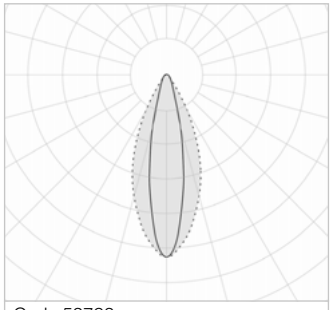
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52835	Beta 235 LED 931x60 DALI AMPIO VT L1565	65	10287	4000	>80	1565x235x105
52916	Beta 235 LED 932x40 DALI AMPIO VT L1265	80	12933	4000	>80	1265x235x105
52832	Beta 235 LED 932x50 DALI AMPIO VT L1565	99	15581	4000	>80	1565x235x105

Beta 235 93 VT Iperconcentrated

960°C | IP65 | 10J | IK09





Code 52792

Symmetrical elliptical hyperconcentrated distribution.
VT transparent glass, non-combustible, single-piece perimeter frame in stainless steel.
Methacrylate (PMMA) lenses with external flat surface.
Recommended minimum installation height: 4 metres from the ground.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52876	Beta 235 LED 932x40 IPERCONC VT L1265	80	12139	4000	>80	1265x235x105
52792	Beta 235 LED 932x50 IPERCONC VT L1565	99	14624	4000	>80	1565x235x105

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
52918	Beta 235 LED 932x40 DALI IPERCONC VT L1265	80	12139	4000	>80	1265x235x105
52834	Beta 235 LED 932x50 DALI IPERCONC VT L1565	99	14624	4000	>80	1565x235x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta 235 | Accessories



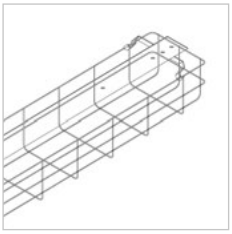
Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



Code	Item
A0653	Pair of fixing carab.for chain instal.

Snap hooks clips for chain suspension, galvanised steel.



Code	Item
A0457	Wireguard 280x1330 3F Linda/3F Beta
A0458	Wireguard 280x1630 3F Linda/3F Beta

Wire-guard for applications in dry environments, against shocks coming from any directions, galvanised steel rod Ø 5 mm.
Only for luminaires fixed without hooks.



Code	Item
A0324	Pair fixed brack. for ceiling Beta 235

Pair of mounting brackets and hooks for ceiling mounting, with nuts and bolts for fastening the luminaire, everything in stainless steel.
Accessory always required for ceiling mounted installation.



Code	Item
A0835	Pair brack.+hooks for wall

Pair of mounting brackets and hooks for wall-mounting, with nuts and bolts for luminaire fastening, everything in stainless steel.



Code	Item
A0836	Pair of galv.hooks for susp.- Beta 235
A0837	Pair of stain.steel hooks susp.-Beta 235

Pair of steel hooks for suspended installation, with nuts and bolts for luminaire fastening.
In case of chain suspension installation, ALWAYS use one of the following codes: A0653.



Code	Item
A0838	Pair of S-hooks for chain - Beta 235

Pair of hooks in galvanised steel for suspended installation, with nuts and bolts for luminaire fastening.

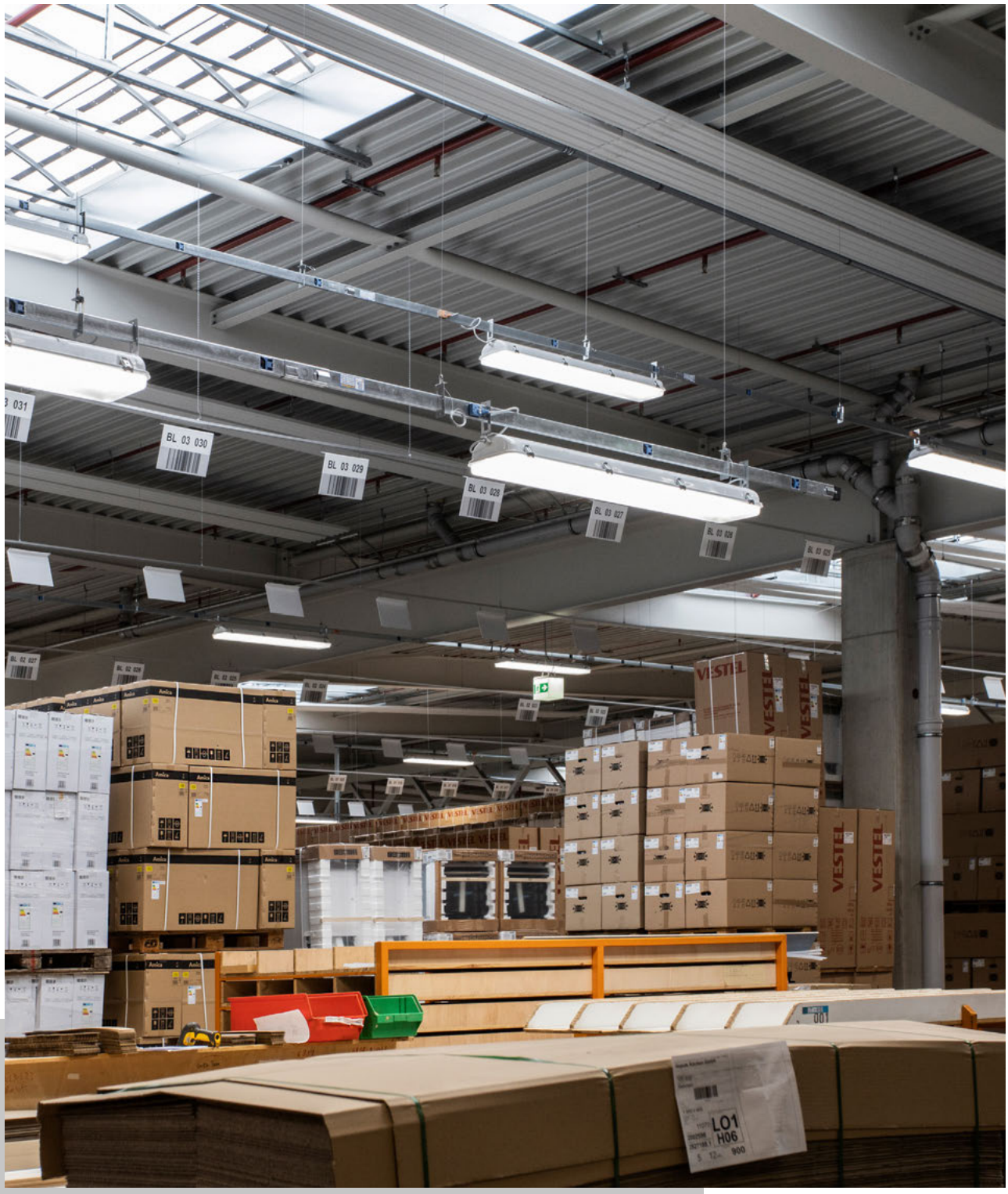


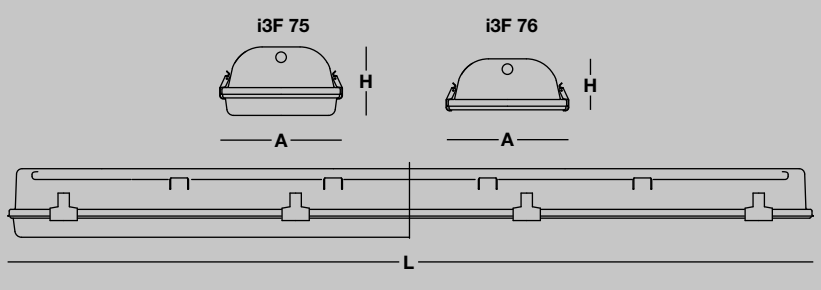
Code	Item
A0325	Mounting kit on busbar - Beta 235

Safety screw for locking to busbar.


Borghi
Borghi
EPAL

/ Waterproof and corrosion-proof





Impuls Küchen
Brilon
Deutschland/Germany



Beta i3F

ILLUMINOTECHNICAL

Wide or concentrated direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Single-piece housing in pressed steel, powder-coated in white epoxy-polyester.
Oversized flux recuperator in specular aluminium, with titanium-magnesium surface treatment, non-iridescent.
Gear-tray unit in hot-galvanised steel, painted in white polyester, fixed to the housing by means of "Ribloc" rapid devices in galvanised steel, hinged opening.
Stainless steel screen fixing clips.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Entry for power-supply cable at one end cap, through M20x1,5 self-extinguishing nylon cable gland.

INSTALLATION

Ceiling, suspended, on busbar or wall-mounted.
For mounting hooks and brackets see accessories on page 579.

APPLICATIONS

Ambient temperature from -20°C to +35°C.
Dry, dusty indoor environments, subject to occasional water splashes.
Industrial environments, warehouses, environments requiring safety luminaires, such as prisons, thanks to the clips that can be locked by bolts (on request).
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with laminated glass.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

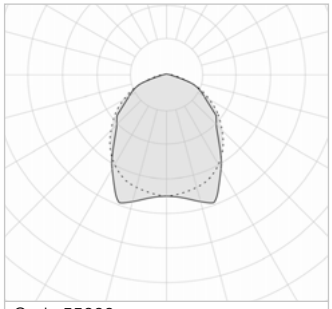
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- laminated glass
- wiring: dimmable, CLO (page 662), twin-circuit, class II
- safety snap-lock clips
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- body in painted aluminium or stainless steel
- emergency versions

Beta i3F 75 PC Wide

EP | D | 850°C | IP65 | 20J | IK10 | Driver/LED SELV | HACCP





Code 55600

Wide distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection molded, sealing gasket, hinged opening.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
55596	i3F LED 752x12W AMPIO L655	28	3955	4000	>80	655x235x140
55598	i3F LED 752x24W AMPIO L1265	54	7471	4000	>80	1265x235x135
55600	i3F LED 752x30W AMPIO L1565	66	9715	4000	>80	1565x235x135

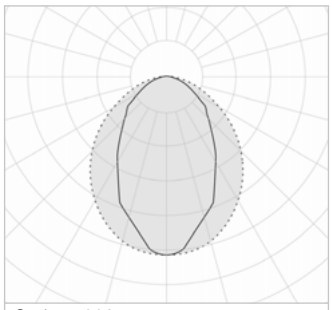
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
55607	i3F LED 752x12W EP AMPIO L655	29	3955	4000	>80	655x235x140
55609	i3F LED 752x24W EP AMPIO L1265	55	7471	4000	>80	1265x235x135
55611	i3F LED 752x30W EP AMPIO L1565	67	9715	4000	>80	1565x235x135

Beta i3F 75 PC Concentrated

EP | D | 850°C | IP65 | 20J | IK10 | Driver/LED SELV | HACCP





Code 55006

Concentrated elliptical distribution.
Polycarbonate screen etched internally, V2 self-extinguishing, UV stabilised, injection molded, sealing gasket, hinged opening.
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
55006	i3F LED 752x30W CONC L1565	66	9597	4000	>80	1565x235x135

EP maintained emergency wiring, 1hr duration with 24hrs recharge

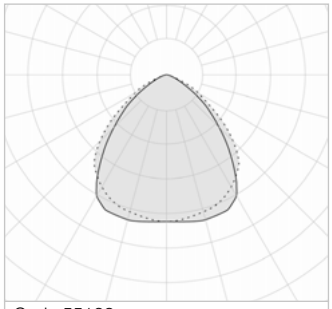
Code	Item	W	lm	K	CRI	L x A x H
55017	i3F LED 752x30W EP CONC L1565	67	9597	4000	>80	1565x235x135

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta i3F 76 VS Wide

EP | D | 960°C | IP65 | 10J | IK09 | Driver/LED SELV





Code 55138

Wide distribution.
VS molded antiglare glass, non-combustible, monobloc perimetrical frame in galvanised steel, with sealing gasket, hinged opening.
On request, HACCP versions.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
55134	i3F LED 762x12W AMPIO VS L655	28	3591	4000	>80	655x235x110
55136	i3F LED 762x24W AMPIO VS L1265	54	6783	4000	>80	1265x235x105
55138	i3F LED 762x30W AMPIO VS L1565	66	8820	4000	>80	1565x235x105

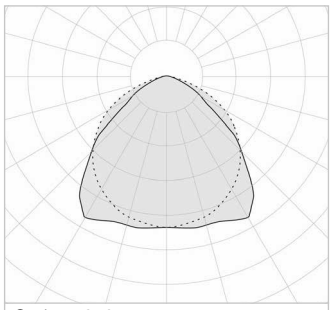
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
55145	i3F LED 762x12W EP AMPIO VS L655	29	3591	4000	>80	655x235x110
55147	i3F LED 762x24W EP AMPIO VS L1265	55	6783	4000	>80	1265x235x105
55149	i3F LED 762x30W EP AMPIO VS L1565	67	8820	4000	>80	1565x235x105

Beta i3F 76 VT Wide

EP | D | 960°C | IP65 | 10J | IK09 | Driver/LED SELV





Code 55072

Wide distribution.
VT transparent glass, non-combustible, monobloc perimetrical frame in galvanised steel, with sealing gasket, hinged opening.
On request, HACCP versions.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
55072	i3F LED 762x30W AMPIO VT L1565	66	9769	4000	>80	1565x235x105

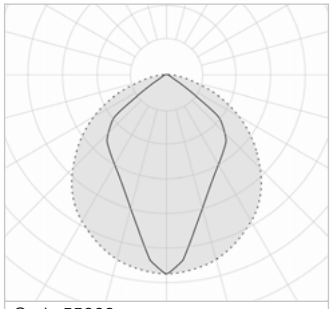
EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
55083	i3F LED 762x30W EP AMPIO VT L1565	67	9769	4000	>80	1565x235x105

Beta i3F 76 VT Concentrated

CE | SAFER FLICKER | EP | D | 960°C | IP65 | 10J | IK09 | Driver/LED SELV





Code 55666

Concentrated elliptical distribution.
VT transparent glass, non-combustible, monobloc perimetrical frame in galvanised steel, with sealing gasket, hinged opening.
On request, HACCP versions.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
55666	i3F LED 762x30W CONC VT L1565	66	9823	4000	>80	1565x235x105

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
55677	i3F LED 762x30W EP CONC VT L1565	67	9823	4000	>80	1565x235x105

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Beta i3F | Accessories



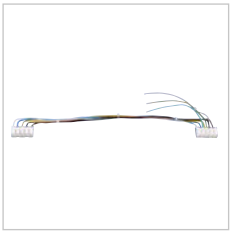
Code	Item
A0503	15 CD pair of bracket/hooks A3F

Pair of mounting brackets and hooks for wall-mounting, with nuts and bolts for luminaire fastening, everything in stainless steel.



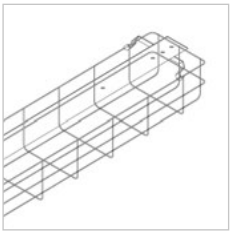
Code	Item
A0500	13 DH pair susp.galv.steel hooks i3F
A0501	13 HC pair susp.stain.steel hooks A3F

Pair of steel hooks for suspended installation, with nuts and bolts for luminaire fastening.
In case of chain suspension installation, ALWAYS use one of the following codes: A0653.



Code	Item
A0508	20 TKA (casc. conn. line i3F/A3F 1265)
A0509	20 ZFE (casc. conn. line i3F/A3F 1565)

5-pole cascade connection line, stiff cable H07 V2-U, HT 90°C, 1.5 mm², terminal blocks with connection capacity 2x2.5 mm².



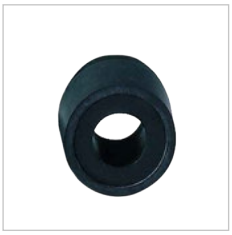
Code	Item
A0457	Wireguard 280x1330 3F Linda/3F Beta
A0458	Wireguard 280x1630 3F Linda/3F Beta

Wire-guard for applications in dry environments, against shocks coming from any directions, galvanised steel rod Ø 5 mm.
Only for luminaires fixed without hooks.



Code	Item
A0187	Anti-condensation cable gland

Anti-condensation diffuser cable gland.
Recommended for installations in environments with temperature sudden changes or subject to condensation.



Code	Item
A0521	Reducing sealing ring diam.8mm

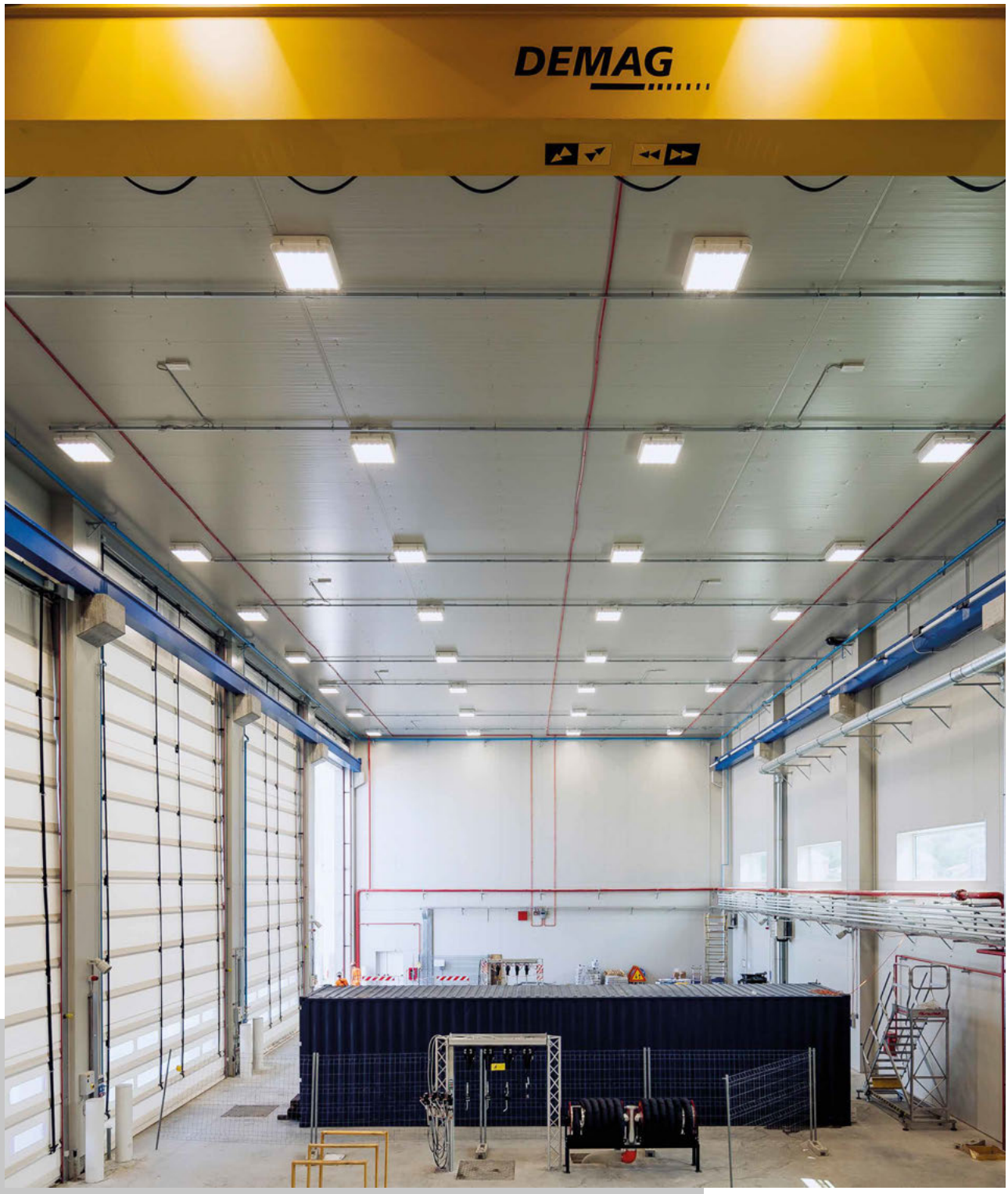
Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



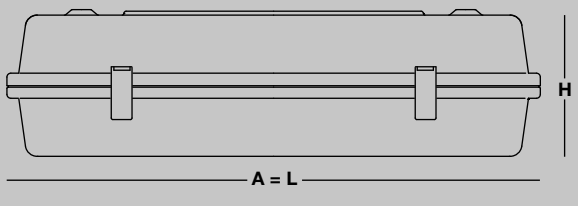
Code	Item
A0653	Pair of fixing carab.for chain instal.

Snap hooks clips for chain suspension, galvanised steel.

/ Waterproof and corrosion-proof



Porto di Savona
Savona
Italia/Italy





3F Cub

ILLUMINOTECHNICAL

Wide symmetric distribution.
Lifetime (L70/B20): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Housing with double casing in pressed aluminium, powder-coated in white epoxy-polyester, hinged opening.
Quick connection in polycarbonate M20x1.5 cable gland for access to the terminal block.
Ecologic anti-aging injected sealing gaskets.
Stainless steel clips.
Total flow recuperator in specular aluminium, with superficial titanium-magnesium treatment, non-iridescent.
Fixing bracket.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Quick connection.

INSTALLATION

Suspension mounted on a bus bar or with a chain attached to the ceiling.
For brackets see accessories on page 584.

APPLICATIONS

Environments: commercial, industrial, sports, stores, sports halls, gymnasiums.
Environments in which it is necessary a total protection against falling fragments (eg environments with foodstuffs or machines with moving parts or with extreme temperature changes), use luminaires with laminated glass.
Tempered glass is not immune to falling fragments from harmless and caused by shocks or exceptionally derived from the tempering process.

100W version
Ambient temperature from -20°C to +45°C.

150W version
Ambient temperature from -20°C to +40°C.

SP version
Suitable product for food production plants (HACCP), IFS (Food Version 6), BRC (GSFS Food Version 7).

LIGHT MANAGEMENT

The DALI products can be controlled with 3F Easy Dim (page 630) or 3F Smart Dimming technology (page 640).

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

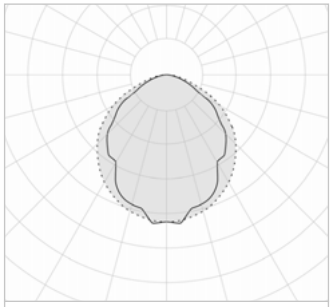
ON REQUEST

- different colour rendering indices and colour temperatures
- concentrated distribution
- laminated glass
- wiring: single-circuit, CLO (page 662)
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- double quick connection
- HACCP versions
- emergency versions

3F Cub VT

960°C | IP64 | 20J | IK10





Code 56333

Transparent glass VT tempered, non-combustible.

ON/OFF electronic wiring 230V-50/60Hz, twin-circuit

Code	Item	W	lm	K	CRI	L x A x H
56330	3F CUB LED 100W CR VT	108	15195	4000	>80	680x680x187
56333	3F CUB LED 150W CR VT	159	22588	4000	>80	680x680x187

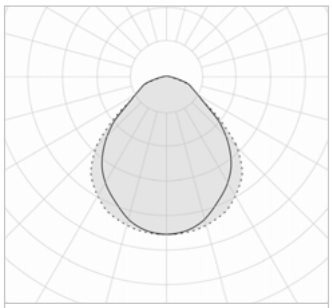
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
56332	3F CUB LED 100W DALI CR VT	108	15195	4000	>80	680x680x187
56335	3F CUB LED 150W DALI CR VT	159	22588	4000	>80	680x680x187

3F Cub SP

650°C | IP64 | 5J | IK08





Code 56347

SP transparent methacrylate (PMMA) diffuser, prismatic outside, antiglare.

ON/OFF electronic wiring 230V-50/60Hz, twin-circuit

Code	Item	W	lm	K	CRI	L x A x H
56344	3F CUB LED 100W CR SP	108	14323	4000	>80	680x680x187
56347	3F CUB LED 150W CR SP	159	21176	4000	>80	680x680x187

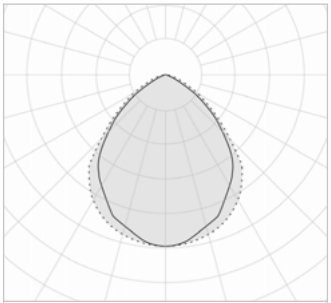
DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
56346	3F CUB LED 100W DALI CR SP	108	14323	4000	>80	680x680x187
56349	3F CUB LED 150W DALI CR SP	159	21176	4000	>80	680x680x187

3F Cub VS

960°C | IP64 | 20J | IK10





Code 56340

VS moulded glass, anti-glare, tempered, non-combustible.

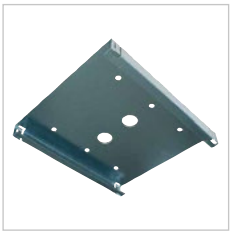
ON/OFF electronic wiring 230V-50/60Hz, twin-circuit

Code	Item	W	lm	K	CRI	L x A x H
56337	3F CUB LED 100W CR VS	108	13981	4000	>80	680x680x187
56340	3F CUB LED 150W CR VS	159	20740	4000	>80	680x680x187

DALI electronic wiring 230V-50/60Hz

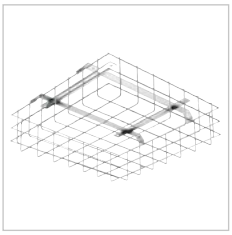
Code	Item	W	lm	K	CRI	L x A x H
56339	3F CUB LED 100W DALI CR VS	108	13981	4000	>80	680x680x187
56342	3F CUB LED 150W DALI CR VS	159	20740	4000	>80	680x680x187

3F Cub | Accessories



Code	Item
A0213	Ceiling-mounted bracket

Ceiling-mounted bracket in hot-galvanised steel.



Code	Item
A0210	Wireguard 3F Cub

Wire-guard for indoor dry applications, with double fastening (wire-guard and luminaire), for shocks coming from any directions, not transmitting the shocks to the luminaire but to the ceiling; in galvanised steel rod Ø 5 mm. To install it, ceiling-mounted bracket code A0213 is always necessary.



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.



/ Waterproof and corrosion-proof



Fischer Italia
Padova
Italia/Italy



Retrofit Beta A3F-i3F

ILLUMINOTECHNICAL

Wide or concentrated direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Gear-tray in hot galvanised steel, painted in white polyester, to be fixed to the body by rapid devices "Ribloc".

2x40W version
Methacrylate (PMMA) lenses with external flat surface.
For installations prior to 2010, the hinge opening is lost.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Retrofit.
Correct installation of the retrofit LED kit, compliant with EN 60598-1 and CE marked, must be only performed by qualified personnel to ensure compliance with the national installation standards.

NOTES

Evaluate the use of moulded anti-glare glass according to the application.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

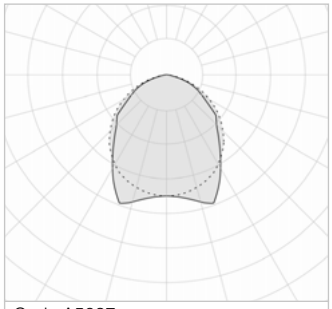
ON REQUEST

- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- retrofit Kit for luminaires of length 655mm (1-2x18W), power 1x36W - 1x58W, for Beta Stainless A3F 92-93, for Beta Ice 90
- different power levels, colour rendering indices and colour temperatures
- wiring: dimmable, CLO (page 662), twin-circuit
- version with asymmetric lighting distribution
- wide flux recuperator to increase luminous flux by 5%
- emergency versions

Kit LED Retrofit for polycarbonate diffuser

CE | SAFER FLICKER | D | 650°C | 850°C | Driver/LED SELV





Code A5027

Wide or concentrated symmetric lighting distribution.
Flow recuperator in specular aluminium, with superficial titanium-magnesium treatment, non-iridescent (only for 2x22W CONCENTRATED version).
Internal transparent methacrylate (PMMA) lenses (only for 2x40W version).
Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded, with smooth outer surface, sealing gasket.
The high output versions are NOT SELV.
40W: glow-wire test resistance 650°C.

Version without recuperator - Driver/LED SELV - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5057	Kit LED i3F 75,A3F 90-92 L1265 2x18W +PC	40	5774	4000	>80	1265x235x135
A5027	Kit LED I3F 75, A3F 90, A3F 92-L1565 - 2X22W+PC	49	6996	4000	>80	1565x235x135
A5026	KIT LED i3F 75, A3F 90-L1565 - 2x30W+PC	66	9133	4000	>80	1565x235x135

Version with CONCENTRATED recuperator - Driver/LED SELV - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5013	Kit LED I3F75,A3F 90,A3F 92-L1565-2X22W CONC+PC	49	7351	4000	>80	1565x235x135

High output version with WIDE lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5215	Kit LED i3F 75,A3F 90 - L1565 - L 2x40W AMPIO + PC	74	11519	4000	>80	1565x235x135

High output version with CONCENTRATED lenses - ON/OFF electronic wiring 230V-50/60Hz

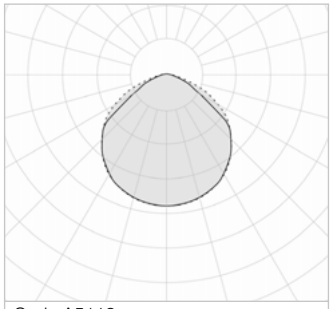
Code	Item	W	lm	K	CRI	L x A x H
A5217	Kit LED i3F 75,A3F 90 - L1565 - L 2x40W CONC + PC	74	11124	4000	>80	1565x235x135

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Kit LED Retrofit for glass diffuser

650°C 850°C Driver/LED SELV





Code A5118

Wide or concentrated symmetric lighting distribution.
Flow recuperator in specular aluminium, with superficial titanium-magnesium treatment, non-iridescent (only for 2x22W CONCENTRATED version).
Internal transparent methacrylate (PMMA) lenses (only for 2x40W version).
Glass diffuser is NOT included in the kit.
The high output versions are NOT SELV.
40W: glow-wire test resistance 650°C.

Version without recuperator - Driver/LED SELV - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5148	KIT LED i3F 76,A3F 91,A3F 93-L1265-2x18W	40	5383	4000	>80	1265x235x105
A5118	Kit LED I3F 76, A3F 91, A3F 93 - L1565-2X22W	49	6938	4000	>80	1565x235x135
A5117	KIT LED i3F 76, A3F 91 - L1565-2x30W	66	9058	4000	>80	1565x235x105

Version with CONCENTRATED recuperator - Driver/LED SELV - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5104	Kit LED I3F 76, A3F 91, A3F 93-L1565-2X22W CONC	49	7525	4000	>80	1565x235x135

High output version with WIDE lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5210	Kit LED i3F 76,A3F 91 - L1565 - L 2x40W AMPIO	74	11397	4000	>80	1565x235x105

High output version with CONCENTRATED lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5212	Kit LED i3F 76,A3F 91 - L1565 - L 2x40W CONC	74	11260	4000	>80	1565x235x105

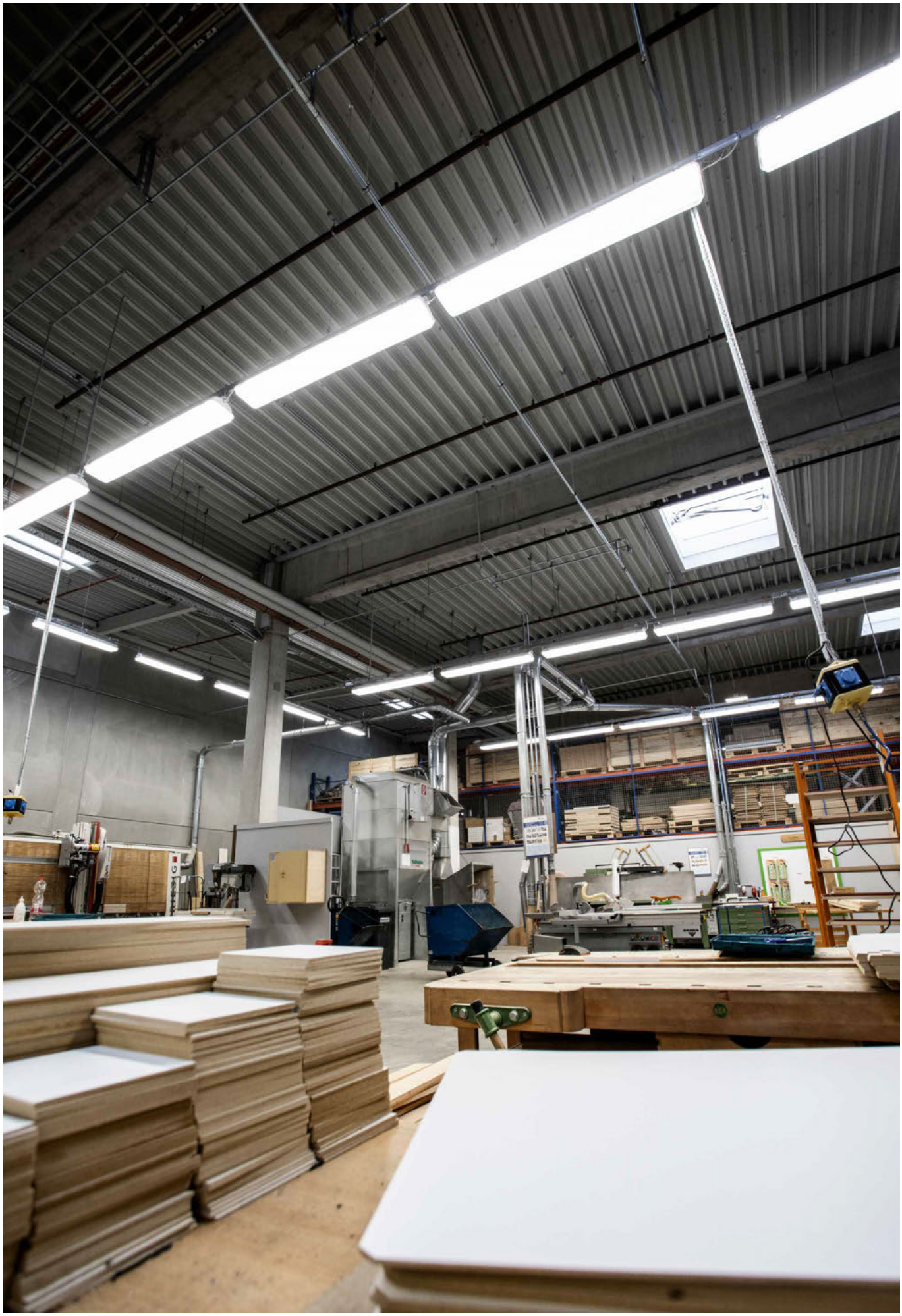
Retrofit Beta A3F-i3F | Accessories



960°C | 10J | IK09

Code	Item
A5184	Moulded glass Beta 2x i3F 76 - L1565
A5185	Moulded glass Beta 2x i3F 76 - L1265

Moulded anti-glare glass for retrofit LED kit, non-combustible, tempered, mounted and locked by a galvanised steel mono-block perimetrical frame with a sealing gasket. For installations prior to 2010, the hinge opening is lost. On request: versions with stainless steel frame for Beta 2x A3F91 A3F93.



/ Waterproof and corrosion-proof



Bon Prix
Valdengo (BI)
Italia/Italy



Retrofit Beta 430

ILLUMINOTECHNICAL

Wide or concentrated direct distribution.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Gear-tray unit hot-galvanised steel, painted in white polyester.
Methacrylate (PMMA) lenses with external flat surface.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
Twin-circuit.

INSTALLATION

Retrofit.
Correct installation of the retrofit LED kit, compliant with EN 60598-1 and CE marked, must be only performed by qualified personnel to ensure compliance with the national installation standards.

NOTES

Evaluate the use of moulded anti-glare glass according to the application.

WARNING

Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.

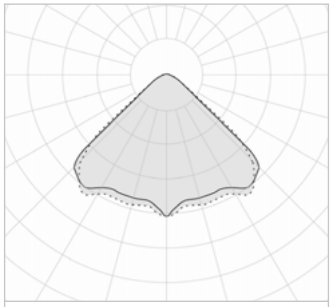
ON REQUEST

- different powers
- wiring: CLO (page 662), dimmable
- linear LED modules, with special protection against aggressive chemically-volatile substances, for standard LED technology
- emergency versions

Kit LED Retrofit Beta 430 2X

650°C





Code A5308

Wide or concentrated symmetric lighting distribution.
Transparent methacrylate (PMMA) lenses.
To replace the 4x49W T5 Amalgam or the 4x58W T8 version.

Version with WIDE lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5308	Kit LED Beta 430 - L1551- 2X65W AMPIO	120	19205	4000	>80	1551x430x159

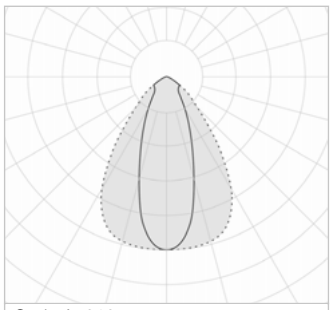
Version with CONCENTRATED lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5309	Kit LED Beta 430 - L1551- 2X65W CONC	120	18071	4000	>80	1551x430x159

Kit LED Retrofit Beta 430 3X

650°C





Code A5312

Wide or concentrated symmetric lighting distribution.
Transparent methacrylate (PMMA) lenses.
To replace the 4x80W - 6x49W T5 Amalgam version.

Version with WIDE lenses - ON/OFF electronic wiring 230V-50/60Hz

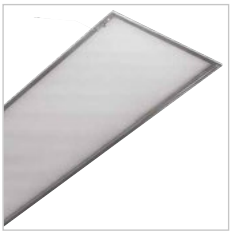
Code	Item	W	lm	K	CRI	L x A x H
A5311	Kit LED Beta 430 - L1551- 3X65W AMPIO	173	28294	4000	>80	1551x430x159

Version with CONCENTRATED lenses - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5312	Kit LED Beta 430 - L1551- 3X65W CONC	173	27524	4000	>80	1551x430x159

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

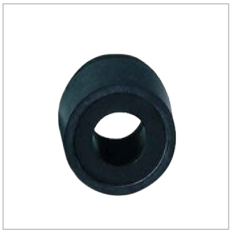
Retrofit Beta 430 | Accessories



Code	Item
A5322	Moulded glass with frame Beta 430-L1551

Moulded anti-glare glass for retrofit LED kit, non-combustible, tempered, mounted and locked by a galvanised steel mono-block perimetrical frame with a sealing gasket. For installations prior to 2010, the hinge opening is lost.

5J IK08



Code	Item
A0521	Reducing sealing ring diam.8mm

Reducing sealing ring, dedicated to the use of cables with an external diameter of up to 8 mm.

/ Waterproof and corrosion-proof



Pratic
Fagagna (UD)
Italia/Italy



Retrofit 3F Cub IP64

ILLUMINOTECHNICAL

Wide symmetric distribution.
Lifetime (L70/B20): 100000 h. (tq+25°C)
Lifetime (L70/B10): 50000 h. (tq+40°C)
Photobiological safety RG0 (page 16).

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Aluminium gear-tray unit.
Tamper-proof closures (2 pieces) to replace the two existing ones.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.
The luminaires with EP permanent emergency wiring on board comply with EN 60598-2-22 standard, high risk areas excluded.
Single-circuit wiring.

INSTALLATION

Retrofit.
Correct installation of the retrofit LED kit, compliant with EN 60598-1 and CE marked, inside the 3F Filippi - 3F Cub Fluorescent luminaires must be only performed by qualified personnel to ensure compliance with the national installation standards.

NOTES

Evaluate the use of moulded anti-glare glass according to the application.

WARNING

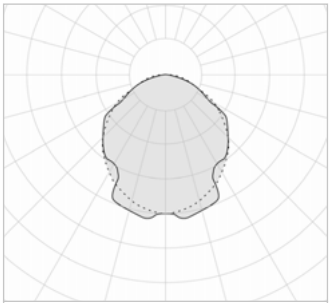
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.
In order to maintain the degree of protection of the device and for the purposes of validity of the guarantee of the new retrofit kits, it is imperative:

- follow the safety and operating instructions described in the installation instructions
- the use of the two self-drilling screws supplied (one for each driver), will perform the dual function of drilling the body and fixing the driver, while maintaining the fixture's degree of protection
- the replacement of existing tamper-proof closures with new ones
- clean the screen glass to improve efficiency

Kit LED Retrofit 3F Cub IP64

960°C





Code A5224

To replace the 4x55W IP64 version.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5223	Kit LED 3F Cub - 100W/840	108	12988	4000	>80	680x680x187
A5224	Kit LED 3F Cub - 150W/840	159	19764	4000	>80	680x680x187

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
A5225	Kit LED 3F Cub - 100W/840 EP	109	12988	4000	>80	680x680x187
A5226	Kit LED 3F Cub - 150W/840 EP	160	19764	4000	>80	680x680x187

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5227	Kit LED 3F Cub - 100W/840 DALI	108	12988	4000	>80	680x680x187
A5228	Kit LED 3F Cub - 150W/840 DALI	159	19764	4000	>80	680x680x187

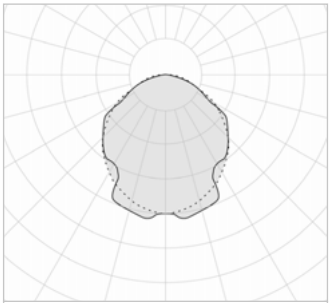
DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
A5229	Kit LED 3F Cub - 100W/840 DALI EP	109	12988	4000	>80	680x680x187
A5230	Kit LED 3F Cub - 150W/840 DALI EP	160	19764	4000	>80	680x680x187

Kit LED Retrofit 3F Cub IP64 CR

960°C





Code A5232

To replace the 4x55W IP64 CR version.

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5231	Kit LED 3F Cub CR - 100W/840	108	12988	4000	>80	680x680x187
A5232	Kit LED 3F Cub CR - 150W/840	159	19764	4000	>80	680x680x187

EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
A5233	Kit LED 3F Cub CR - 100W/840 EP	109	12988	4000	>80	680x680x187
A5234	Kit LED 3F Cub CR - 150W/840 EP	160	19764	4000	>80	680x680x187

DALI electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5235	Kit LED 3F Cub CR - 100W/840 DALI	108	12988	4000	>80	680x680x187
A5236	Kit LED 3F Cub CR - 150W/840 DALI	159	19764	4000	>80	680x680x187

DALI - EP maintained emergency wiring, 1hr duration with 24hrs recharge

Code	Item	W	lm	K	CRI	L x A x H
A5237	Kit LED 3F Cub CR - 100W/840 DALI EP	109	12988	4000	>80	680x680x187
A5238	Kit LED 3F Cub CR - 150W/840 DALI EP	160	19764	4000	>80	680x680x187

NEW

/ Waterproof and corrosion-proof



Erre Esse Porsche
Torino
Italia/Italy



Retrofit 3F Linda

ILLUMINOTECHNICAL

Controlled symmetric distribution.

SOURCE

Linear LED modules.
Colour initial tolerance (MacAdam): SDCM 3.

MECHANICAL

Gear-holder reflector in hot-dip galvanised steel, painted with white polyester base.

ELECTRICAL

In compliance with EN 60598-1.
Compliance with the EN 60598-2-22 standard for power supply from a centralised CPSS emergency system must be verified in the technical data sheets of each individual device on our website.

INSTALLATION

Retrofit.
Correct installation of the retrofit LED kit, compliant with EN 60598-1 and CE marked, inside the 3F Filippi - 3F Linda Fluorescent luminaires must be only performed by qualified personnel to ensure compliance with the national installation standards.

ACCESSORIES

Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.

WARNING

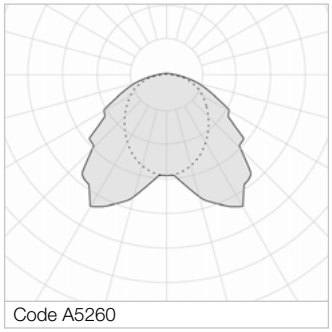
Fixture not suitable for cold stores with an ambient temperature <0°C and/or relative humidity >85%.
If the luminaire being retrofitted has a transparent prismatic screen, it must be replaced with the new photo-etched screen, available as an accessory.
Attention: to maintain the degree of protection of the device and for the purposes of validity of the guarantee of the new retrofit kits, it is imperative to replace the old cable guides (on the body of the device) with the new ones supplied.

ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- emergency versions

Kit LED Retrofit 3F Linda 1X





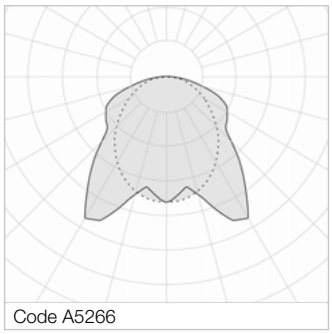
Code A5260

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5260 NEW	Kit LED 3F Linda - L660 - 1x6W (2pcs)	7.5	1029	4000	>80	660x100x100
A5261 NEW	Kit LED 3F Linda - L660 - 1x12W (2pcs)	14	2033	4000	>80	660x100x100
A5262 NEW	Kit LED 3F Linda - L1270 - 1x18W (2pcs)	20	2967	4000	>80	1270x100x100
A5263 NEW	Kit LED 3F Linda - L1270 - 1x24W (2pcs)	28	4065	4000	>80	1270x100x100
A5264 NEW	Kit LED 3F Linda - L1570 - 1x22W (2pcs)	25	3955	4000	>80	1570x100x100
A5265 NEW	Kit LED 3F Linda - L1570 - 1x30W (2pcs)	33.5	5180	4000	>80	1570x100x100

Kit LED Retrofit 3F Linda 2X





Code A5266

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
A5266 NEW	Kit LED 3F Linda - L660 - 2x6W (2pcs)	14	2002	4000	>80	660x160x100
A5267 NEW	Kit LED 3F Linda - L660 - 2x12W (2pcs)	28	3955	4000	>80	660x160x100
A5268 NEW	Kit LED 3F Linda - L1270 - 2x18W (2pcs)	40	6048	4000	>80	1270x160x100
A5269 NEW	Kit LED 3F Linda - L1270 - 2x24W (2pcs)	54.5	7911	4000	>80	1270x160x100
A5270 NEW	Kit LED 3F Linda - L1570 - 2x22W (2pcs)	49	7557	4000	>80	1570x160x100
A5271 NEW	Kit LED 3F Linda - L1570 - 2x30W (2pcs)	66	9715	4000	>80	1570x160x100

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

Retrofit 3F Linda | Accessories



Code	Item
A5243 NEW	Photo-etched diffuser Linda 1x L660 (3pcs)
A5244 NEW	Photo-etched diffuser Linda 1x L1270 (3pcs)
A5245 NEW	Photo-etched diffuser Linda 1x L1570 (3pcs)
A5246 NEW	Photo-etched diffuser Linda 2x L660 (3pcs)
A5247 NEW	Photo-etched diffuser Linda 2x L1270 (3pcs)
A5248 NEW	Photo-etched diffuser Linda 2x L1570 (3pcs)

Diffuser in self-extinguishing V2 polycarbonate, photo-engraved interior, UV stabilised, injection moulded with smooth outer surface.

/ catalogue

_Outdoor

/ 3F Filippi



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3F Manta
Page 616



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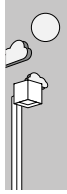
3F 66
Page 622



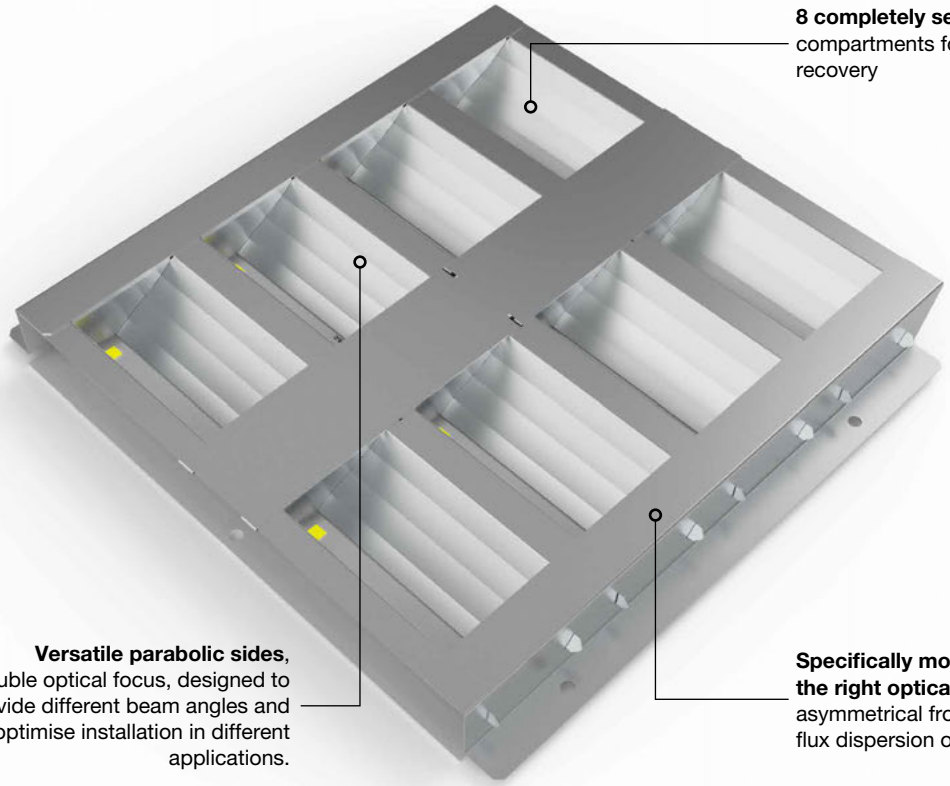
/ 3F Manta

3F Manta was created to bring the outstanding lighting technology that our company has been offering for over 60 years inside production facilities, retail areas, and architectural spaces outdoors.

Thanks to the intense activity in its research laboratories, 3F Filippi is launching its first lighting fixture for outdoor work areas, a cutting edge solution dedicated to lighting private areas where vehicles and pedestrians pass through such as parking lots, perimeter areas of production facilities, loading/ unloading docks, and other areas that refer to regulation EN 12464-2 “Lighting of outdoor work areas”.



3F Manta
GAB Tamagnini
Reggio Emilia, Italy



All-round optics.

For 3F Manta we developed an **ad hoc multifaceted optics**, with total luminous flux recovery cells, entirely made of semi-specular high reflection aluminium with titanium and magnesium surface treatment, without iridescence and luminous contrasts.

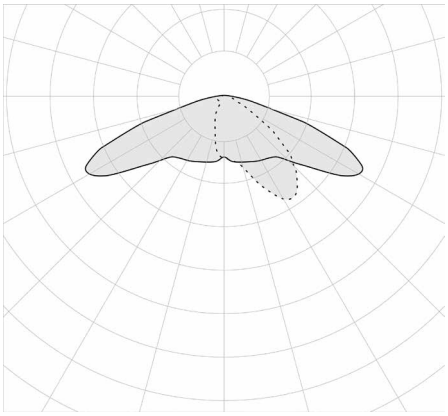
The aluminium allows the optical performance to be maintained over time, even in the most severe weather conditions, unlike chrome elements.

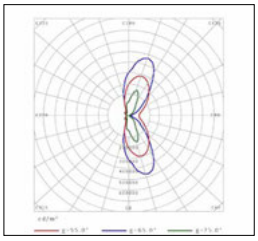
In designing and creating 3F Manta, special attention was paid to the light distribution, which is perfectly controlled and guarantee the **cancellation of light pollution** (in compliance with current standards).

The distributions, with three different optics, are designed for lighting large spaces, meeting the depth or width requirements.

Wide



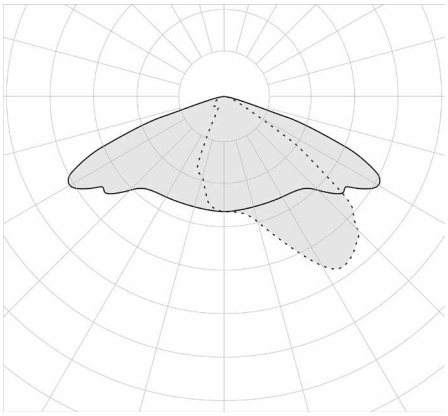


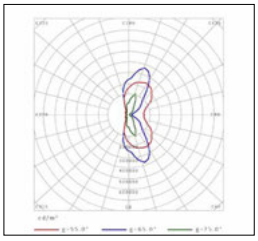


Asymmetric Optic Front 30° - Side 60°
Asymmetric distribution with wide bilateral emission.

Medium



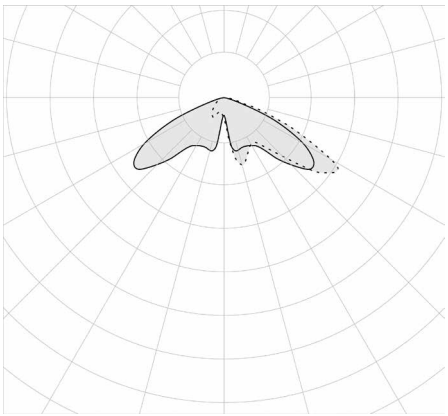


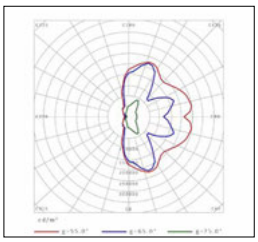


Asymmetric Optic Front 40° - Side 60°
Asymmetric distribution with medium bilateral emission.

Front

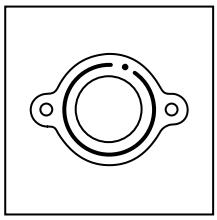






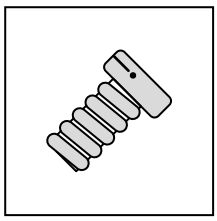
Asymmetric Optic Front 50° - Side 50°
Asymmetric distribution with wide bilateral and front emission.



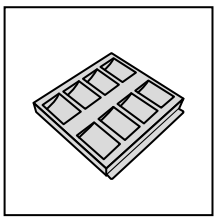


Gasket in polyurethane
The watertight seal and IP66 protection rating are also guaranteed by the gaskets made of polyurethane, which is particularly resistant to weather and pollution.

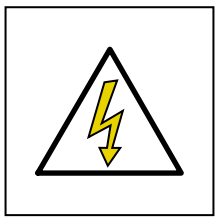
Nema Socket - Ready (Zhaga Book 18)
The upper part of the fixture is made ready for the installation of devices created for the creation of Smart Lighting solutions (sensors, wireless antennas, video cameras, etc.).



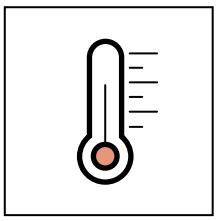
Stainless Steel hardware
They prevent oxidation over time and are also used inside the body, allowing easy access even in severe weather conditions.



Aluminium optics
They allow the photometric performance to remain constant over time.



SPD System
The SPD (Surge Protective Device) technology ensures adequate protection against atmospheric or electrical surges.



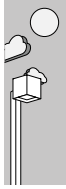
NTC System
The LED module is equipped with a thermistor to prevent exceeding the expected operating temperatures.

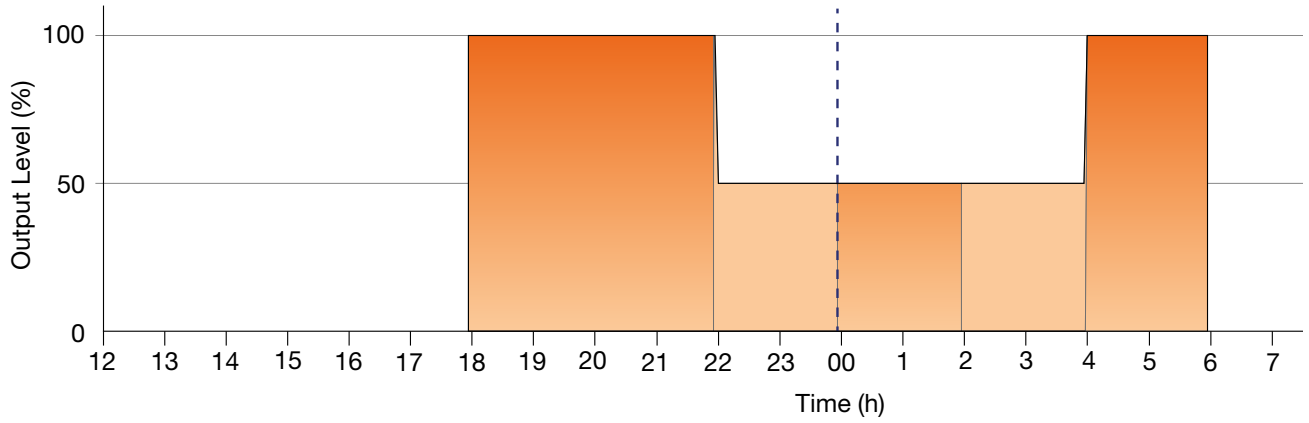
Cutting-edge technologies.

3F Manta is made with top quality components to ensure excellent performance in every aspect.

The cutting-edge technology also make 3F Manta a reliable technical solution that maintains its performance over time.

Since 1952 we have been working to facilitate the work of planners and installers, even through very strict tests that we perform in our CTFs Level 2 certified laboratories under the supervision of a recognised Third Party: 3F Manta followed strict internal protocols to minimise any faults over the longest possible period of time.





Work well at **night.**

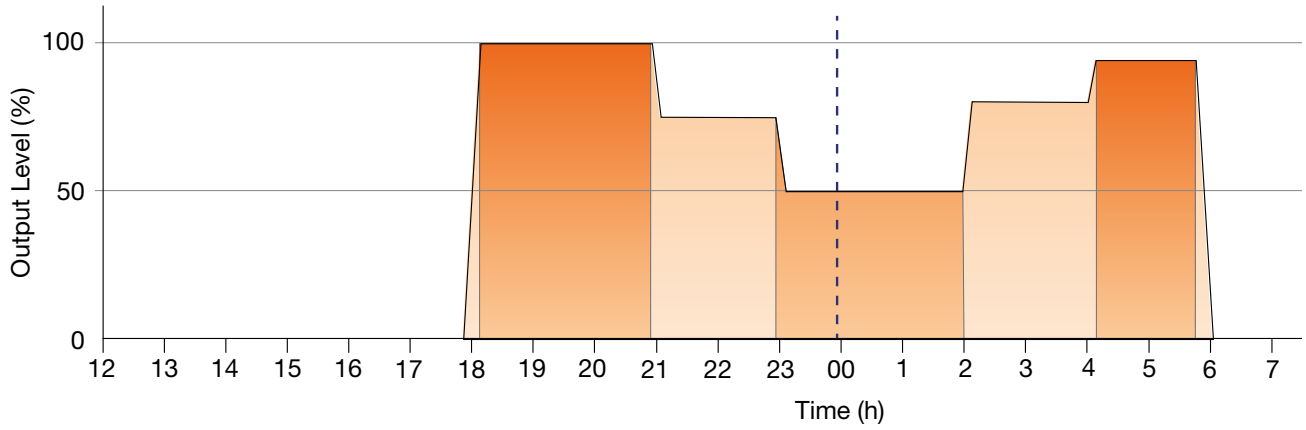
In order to further increase **energy savings** when lighting outdoor areas (and others), when the light does not need to be operating at full power, the “virtual midnight” system allows the creation of a stand-alone control of the fixtures without the need for an external control infrastructure or any change to the existing system.

It consists of activating a multi-level power reduction on the luminaire through a self-learning process that, based on previous times when switched on or off, determines the hypothetical “virtual midnight” between when it was switched on (sunset) and off (sunrise).

“Virtual midnight” is the reference point for applying the reduction of the output power according to the selected profile.

The default setting regulates it on two power levels: 100% and 50%.

Above:
A microprocessor calculates the reduction time starting from “virtual midnight”. The default setting calls for 2 hours before and 4 hours after “virtual midnight” as follows:



The system allows the implementation of customised adjustment profiles (optionals to be requested specifically during the order process), which allow even greater control flexibility.

In fact, it is possible to:

1. Set the output levels in an interval between 10% and 100%, with 1% increases divided over 5 different time intervals.

2. Create the passage from one adjustment level to the next by means of a fade with a programmed duration.

3. Switch the light on and off through a fade. This function allows further energy savings during the twilight stages.

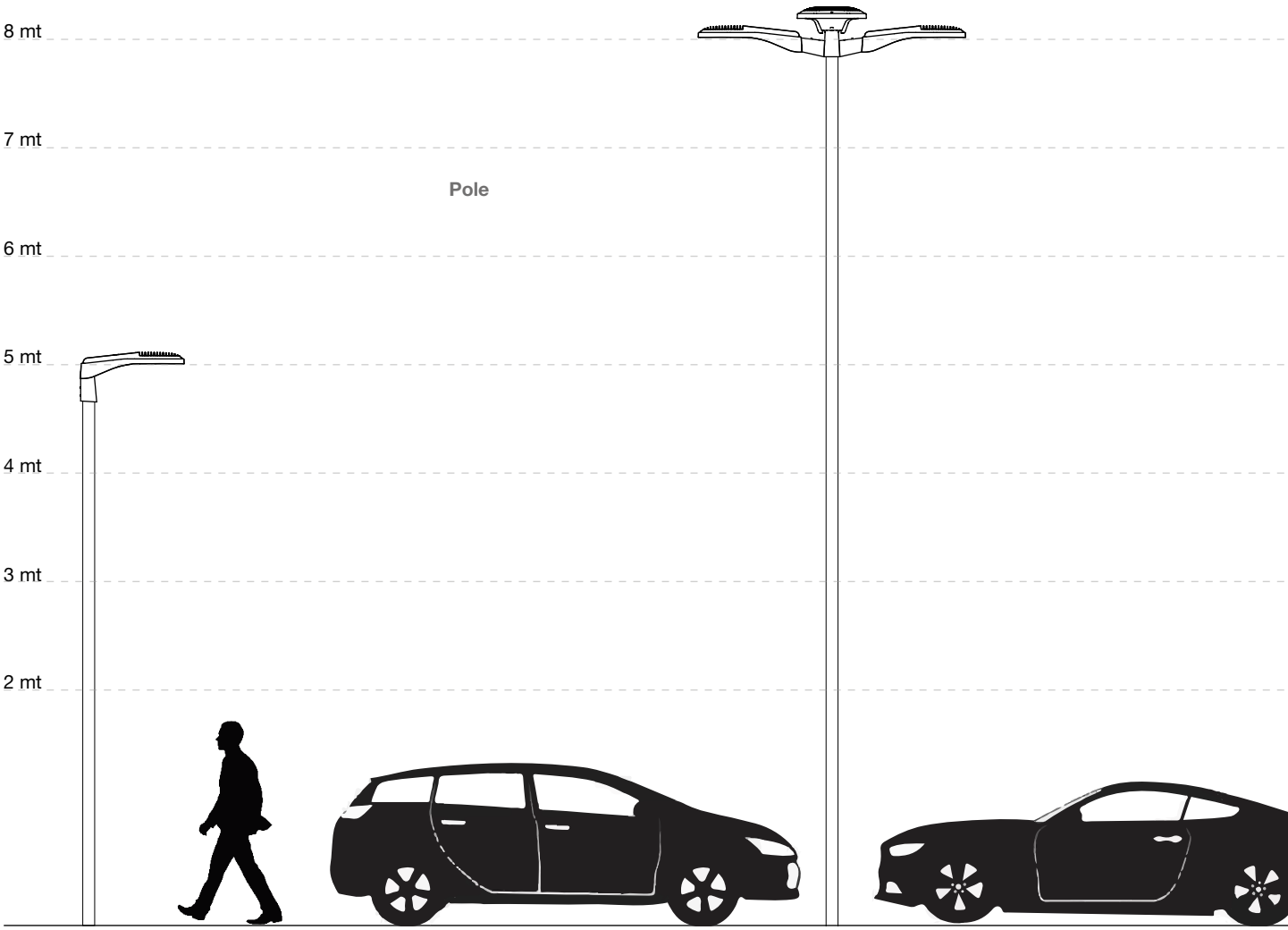
4. Activate an adjustments that also takes into account the sunrise and sunset in the location described by the geographic coordinates in order to further optimise the power reduction periods.

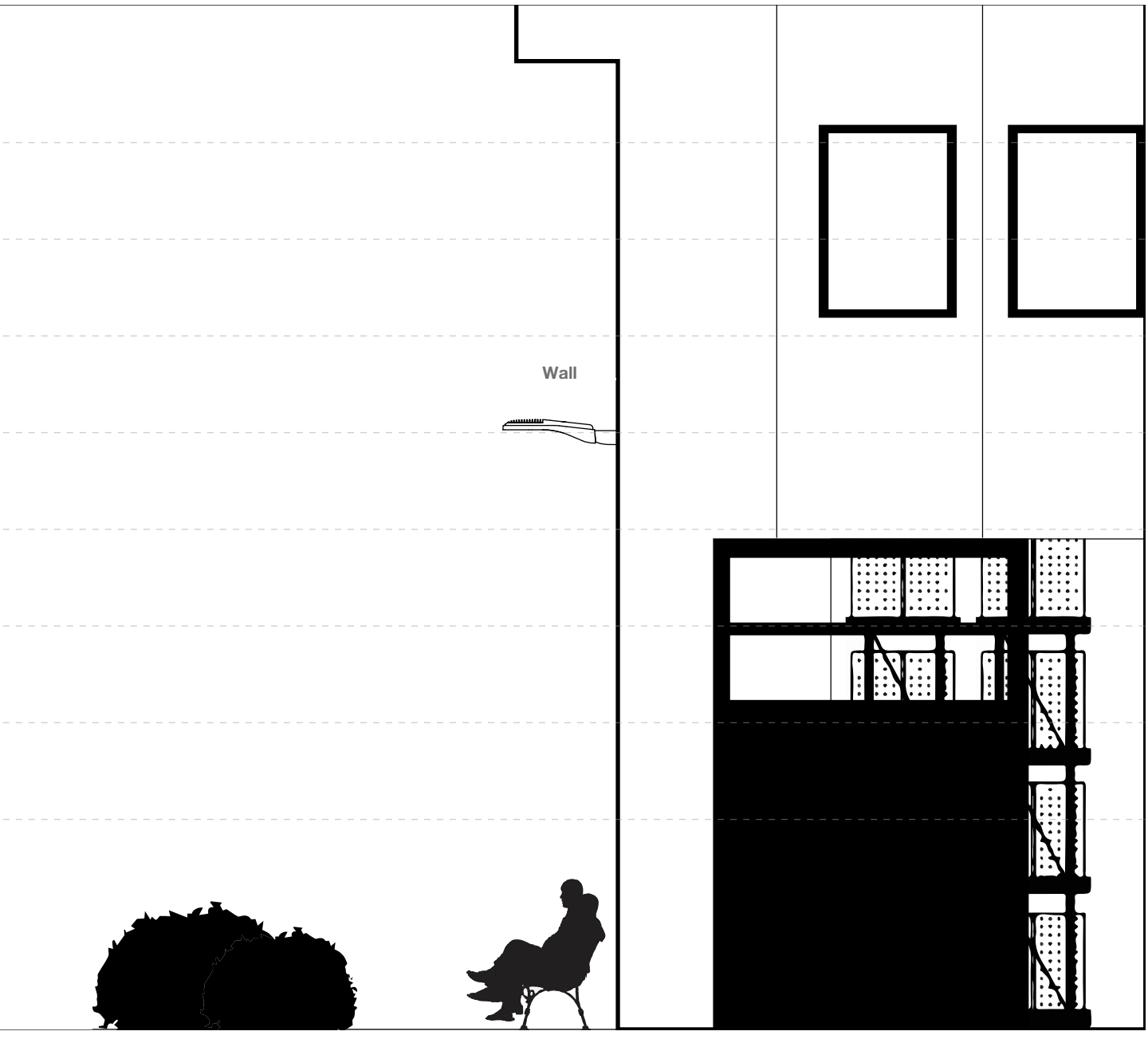
Above:
The graph below shows an example of a programming profiles that summarizes the possibilities described in points 1, 2, and 3.

Range

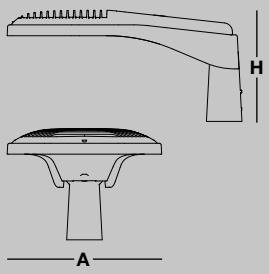
3F Manta

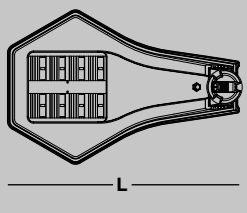
	W	lm	LED	Wiring	Distribution	L x B x H
3F Manta Wide	34,5 - 149	5115 - 15642	/730 /830	ON/OFF	Wide	660 x 440 x 166
3F Manta Medium	34,5 - 195	5087 - 20116	/730 /830	ON/OFF	Medium	660 x 440 x 166
3F Manta Front	34,5 - 141	4578 - 14226	/730 /830	ON/OFF	Frontal	660 x 440 x 166




Wall







GAB Tamagnini
Reggio Emilia
Italia/Italy



3F Manta

ILLUMINOTECHNICAL

Asymmetric distribution with frontal, wide or medium bilateral.
No higher ULOR emission.
Lifetime (L80/B10): 100000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

Squared LED module with special protection against aggressive chemically-volatile substances, for standard LED technology.
Colour initial tolerance (MacAdam): SDCM 5.

MECHANICAL

Aerodynamically-shaped die-cast aluminium double-shell body for low wind resistance (frontal: 0.0446 m^2; lateral: 0.0505 m^2), equipped with fins to optimize the cooling of the internal components.
Shell closure using stainless steel screws on stainless steel bushings, with hinged opening for easy access to the wiring compartment, equipped with system against accidental closure.
Polyester powder coating with degreasing pre-treatment and phosphate layer deposit on the metal, UV stabilised, corrosion resistant, anthracite colour, salt spray resistance ISO 9227 >1000 h.
Parabolic cellular optics with total recovery, entirely made of semi-specular high reflection aluminium with titanium and magnesium surface treatment, to maintain optical performance over time.
Polyurethane foam seals, ecological, anti-aging, installed using a continuous automatic process with no joints.
VT extra transparent tempered glass diffuser, 4 mm thick, non-combustible.
Stainless steel internal and external screws.

ELECTRICAL

In compliance with EN 60598-1, EN 60598-2-3.
Flicker: <10%.
Safety break switch to shut off the power supply when opening the device.
Insulation voltage 6kV via Sourge Protector.
SPD type 2+3 (combined) device to protect against voltage surges up to 10 kV in common and differential mode.
Thermal protection of the LED module via NTC sensor (Negative Temperature Coefficient).
M20x1.5 IP68 nylon cable gland for feeding input (cables with an min-max diameter 6-13mm).
Pressure compensating valve with anti-condensation effect.

INSTALLATION

Pole or wall mounted using always necessary accessories (see on page 621).

APPLICATIONS

Ambient temperature from -30°C to +45°C.
Outdoor environments, general lighting, work and roadway lighting, transit areas and building perimeters, parking lots, trade fairs.
Control of light pollution, in accordance with the legislative requirements in force.

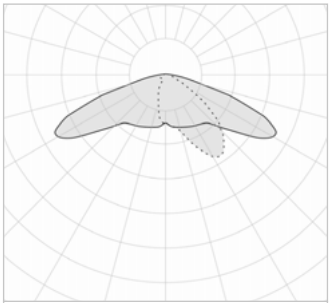
ON REQUEST

- different power levels, colour rendering indices and colour temperatures
- wiring: DALI, CLO (page 662), D1-10V, Wireless
- Customised Virtual Midnight up to 5 independent intervals / levels
- watertight socket / plug connectors

3F Manta Wide

960°C | IP66 | 5J | IK08





Code 7003

Asymmetric distribution with wide bilateral.
This model is available in two different Protection Classes against electric shock (page 999).

Class I - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
7400	3F Manta AN 30/730 WIDE	34.5	5115	3000	>70	660x440x166
7001	3F Manta AN 50/730 WIDE	53	6950	3000	>70	660x440x166
7002	3F Manta AN 75/730 WIDE	78	9717	3000	>70	660x440x166
7003	3F Manta AN 100/730 WIDE	103	13101	3000	>70	660x440x166
7004	3F Manta AN 135/730 WIDE	149	17458	3000	>70	660x440x166
7401	3F Manta AN 30/830 WIDE	34.5	4572	3000	>80	660x440x166
7022	3F Manta AN 50/830 WIDE	53	6227	3000	>80	660x440x166
7023	3F Manta AN 75/830 WIDE	78	8707	3000	>80	660x440x166
7024	3F Manta AN 100/830 WIDE	103	11738	3000	>80	660x440x166
7025	3F Manta AN 135/830 WIDE	149	15642	3000	>80	660x440x166

Class II - ON/OFF electronic wiring 230V-50/60Hz

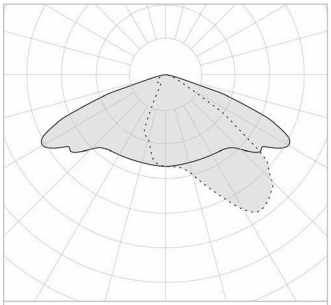
Code	Item	W	lm	K	CRI	L x A x H
7402	3F Manta AN 30/730 II WIDE	34.5	5115	3000	>70	660x440x166
7026	3F Manta AN 50/730 II WIDE	53	6950	3000	>70	660x440x166
7027	3F Manta AN 75/730 II WIDE	78	9717	3000	>70	660x440x166
7028	3F Manta AN 100/730 II WIDE	103	13101	3000	>70	660x440x166
7029	3F Manta AN 135/730 II WIDE	149	17458	3000	>70	660x440x166
7403	3F Manta AN 30/830 II WIDE	34.5	4572	3000	>80	660x440x166
7030	3F Manta AN 50/830 II WIDE	53	6227	3000	>80	660x440x166
7031	3F Manta AN 75/830 II WIDE	78	8707	3000	>80	660x440x166
7032	3F Manta AN 100/830 II WIDE	103	11738	3000	>80	660x440x166
7033	3F Manta AN 135/830 II WIDE	149	15642	3000	>80	660x440x166

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**

3F Manta Medium

960°C | IP66 | 5J | IK08





Code 7011

Asymmetric distribution with medium bilateral.
This model is available in two different Protection Classes against electric shock (page 999).

Class I - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
7404	3F Manta AN 30/730 MEDIUM	34.5	5087	3000	>70	660x440x166
7009	3F Manta AN 50/730 MEDIUM	53	6912	3000	>70	660x440x166
7010	3F Manta AN 75/730 MEDIUM	78	9663	3000	>70	660x440x166
7011	3F Manta AN 100/730 MEDIUM	103	13028	3000	>70	660x440x166
7012	3F Manta AN 135/730 MEDIUM	149	17360	3000	>70	660x440x166
7020	3F Manta AN 185/730 MEDIUM	195	22451	3000	>70	660x440x166
7405	3F Manta AN 30/830 MEDIUM	34.5	4547	3000	>80	660x440x166
7035	3F Manta AN 50/830 MEDIUM	53	6193	3000	>80	660x440x166
7036	3F Manta AN 75/830 MEDIUM	78	8658	3000	>80	660x440x166
7037	3F Manta AN 100/830 MEDIUM	103	11673	3000	>80	660x440x166
7038	3F Manta AN 135/830 MEDIUM	149	15555	3000	>80	660x440x166
7039	3F Manta AN 185/830 MEDIUM	195	20116	3000	>80	660x440x166

Class II - ON/OFF electronic wiring 230V-50/60Hz

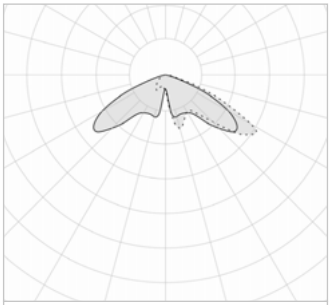
Code	Item	W	lm	K	CRI	L x A x H
7406	3F Manta AN 30/730 II MEDIUM	34.5	5087	3000	>70	660x440x166
7040	3F Manta AN 50/730 II MEDIUM	53	6912	3000	>70	660x440x166
7041	3F Manta AN 75/730 II MEDIUM	78	9663	3000	>70	660x440x166
7042	3F Manta AN 100/730 II MEDIUM	103	13028	3000	>70	660x440x166
7043	3F Manta AN 135/730 II MEDIUM	149	17360	3000	>70	660x440x166
7044	3F Manta AN 185/730 II MEDIUM	195	22451	3000	>70	660x440x166
7407	3F Manta AN 30/830 II MEDIUM	34.5	4547	3000	>80	660x440x166
7045	3F Manta AN 50/830 II MEDIUM	53	6193	3000	>80	660x440x166
7046	3F Manta AN 75/830 II MEDIUM	78	8658	3000	>80	660x440x166
7047	3F Manta AN 100/830 II MEDIUM	103	11673	3000	>80	660x440x166
7048	3F Manta AN 135/830 II MEDIUM	149	15555	3000	>80	660x440x166
7049	3F Manta AN 185/830 II MEDIUM	195	20116	3000	>80	660x440x166



3F Manta Front

960°C | IP66 | 5J | IK08





Code 7051

Asymmetric distribution with deep bilateral.
This model is available in two different Protection Classes against electric shock (page 999).

Class I - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
7408	3F Manta AN 30/730 FRONT	34.5	4578	3000	>70	660x440x166
7051	3F Manta AN 50/730 FRONT	51	7242	3000	>70	660x440x166
7052	3F Manta AN 75/730 FRONT	76	10266	3000	>70	660x440x166
7053	3F Manta AN 100/730 FRONT	105	12830	3000	>70	660x440x166
7054	3F Manta AN 135/730 FRONT	141	15913	3000	>70	660x440x166
7409	3F Manta AN 30/830 FRONT	34.5	4092	3000	>80	660x440x166
7055	3F Manta AN 50/830 FRONT	51	6474	3000	>80	660x440x166
7056	3F Manta AN 75/830 FRONT	76	9177	3000	>80	660x440x166
7057	3F Manta AN 100/830 FRONT	105	11969	3000	>80	660x440x166
7058	3F Manta AN 135/830 FRONT	141	14226	3000	>80	660x440x166

Class II - ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
7410	3F Manta AN 30/730 II FRONT	34.5	4578	3000	>70	660x440x166
7059	3F Manta AN 50/730 II FRONT	51	7242	3000	>70	660x440x166
7060	3F Manta AN 75/730 II FRONT	76	10266	3000	>70	660x440x166
7061	3F Manta AN 100/730 II FRONT	105	12830	3000	>70	660x440x166
7062	3F Manta AN 135/730 II FRONT	141	15913	3000	>70	660x440x166
7411	3F Manta AN 30/830 II FRONT	34.5	4092	3000	>80	660x440x166
7063	3F Manta AN 50/830 II FRONT	51	6474	3000	>80	660x440x166
7064	3F Manta AN 75/830 II FRONT	76	9177	3000	>80	660x440x166
7065	3F Manta AN 100/830 II FRONT	105	11969	3000	>80	660x440x166
7066	3F Manta AN 135/830 II FRONT	141	14226	3000	>80	660x440x166

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
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3F Manta | Accessories



Code	Item
A0439	Pole mounting diameter 60mm
A0440	Pole mounting diameter 76mm

Pole mount in die-cast aluminium with the same paint treatment as the body (for Ø 60 mm and Ø 76 mm poles) equipped with special teeth for adjusting the inclination on the head of the device by ± 20° with an adjustment pitch of 5°. Possibility of installing on vertical pole (pole head) and horizontal pole (arm). Mounting on the device using the supplied stainless steel screws on self-locking stainless steel nuts.
Not suitable for fixing on fibreglass pole.



Code	Item
A0441	Reducer from 76 mm to 60 mm

Reducer in galvanised steel, suitable for poles with a diameter of 76 mm.
To install this accessory, it is always necessary to use the pole connection code A0439.



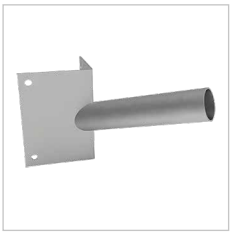
Code	Item
A01480	Fixed position wall bracket

Galvanised steel bracket for fixing on flat facades. 3 mm thick and 200 mm long arm. Powder coated polyester paint, anthracite colour. This bracket DOES NOT allow adjustment of the inclination of the product.
Options on request: painting in different RAL colour.



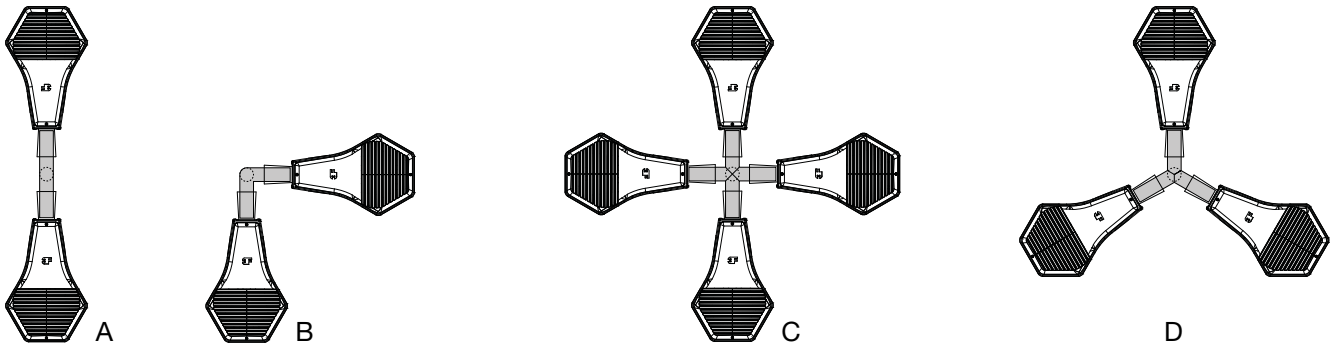
Code	Item
A01479	Wall bracket 15° diam 60mm

Galvanised steel bracket for fixing on flat facades. Arm length 250 mm, diameter 60 mm, inclination of 15°. This bracket allows adjustment of the inclination of the product.
To install this accessory, it is always necessary to use the pole connection code A0439. Options on request: painting in RAL colours / 500 mm outreach / horizontal pole.



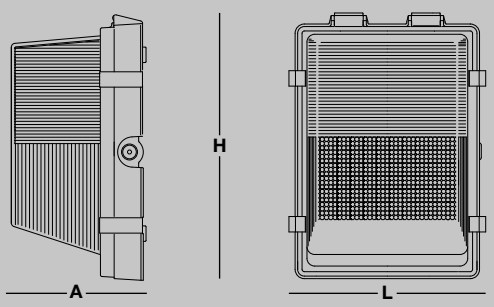
Code	Item
A01481	Corner wall bracket 15° diam 60mm

Galvanised steel bracket for fixing on the corner between facades. Arm length 250 mm, diameter 60 mm, inclination of 15°. This bracket allows adjustment of the inclination of the product.
To install this accessory, it is always necessary to use the pole connection code A0439. Options on request: painting in RAL colours / 500 mm outreach / horizontal pole.



If you require more information, do not hesitate to contact our Sales Network or our Technical Offices.





3F Filippi
Pianoro (BO)
Italia/Italy



3F 66

ILLUMINOTECHNICAL

Downward bilateral distribution.
Lifetime (L70/B10): 50000 h. (tq+25°C)
Photobiological safety RG0 (page 16).

SOURCE

LED modules.
Colour initial tolerance (MacAdam): SDCM 4.

MECHANICAL

Self-extinguishing V2 polycarbonate housing, injection moulded, RAL 7035 grey.
Flow recuperator in specular aluminium with superficial titanium-magnesium treatment, non-iridescent.
Transparent methacrylate (PMMA) diffuser, injection moulded, with smooth outer surface and differentiated prismatic inner surface.
Sealing gaskets between housing and diffuser in ecological anti-aging EPDM.
Diffuser safety seal with 4 latches attaching it to the housing, in stainless steel.

ELECTRICAL

In compliance with EN 60598-1.
Double insulated cables.
Line entry at rear through rubber seal or at side after drilling.
Class II.

APPLICATIONS

Wall mounting, particularly suitable for outdoor lighting of civil and industrial buildings, porticos, underpasses and walkways.
Downwards bilateral controlled distribution allows to optimise the perimeter lighting uniformity of buildings.
Control of light pollution, in accordance with the legislative requirements in force.

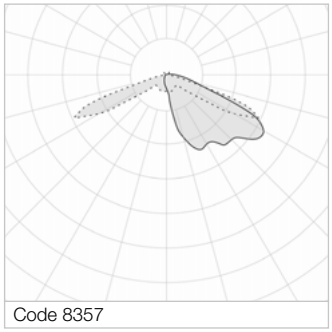
ON REQUEST

- different powers or colour temperatures
- emergency versions

3F 66

650°C | IP65 | 5J | IK08 | Classe II | Driver/LED SELV



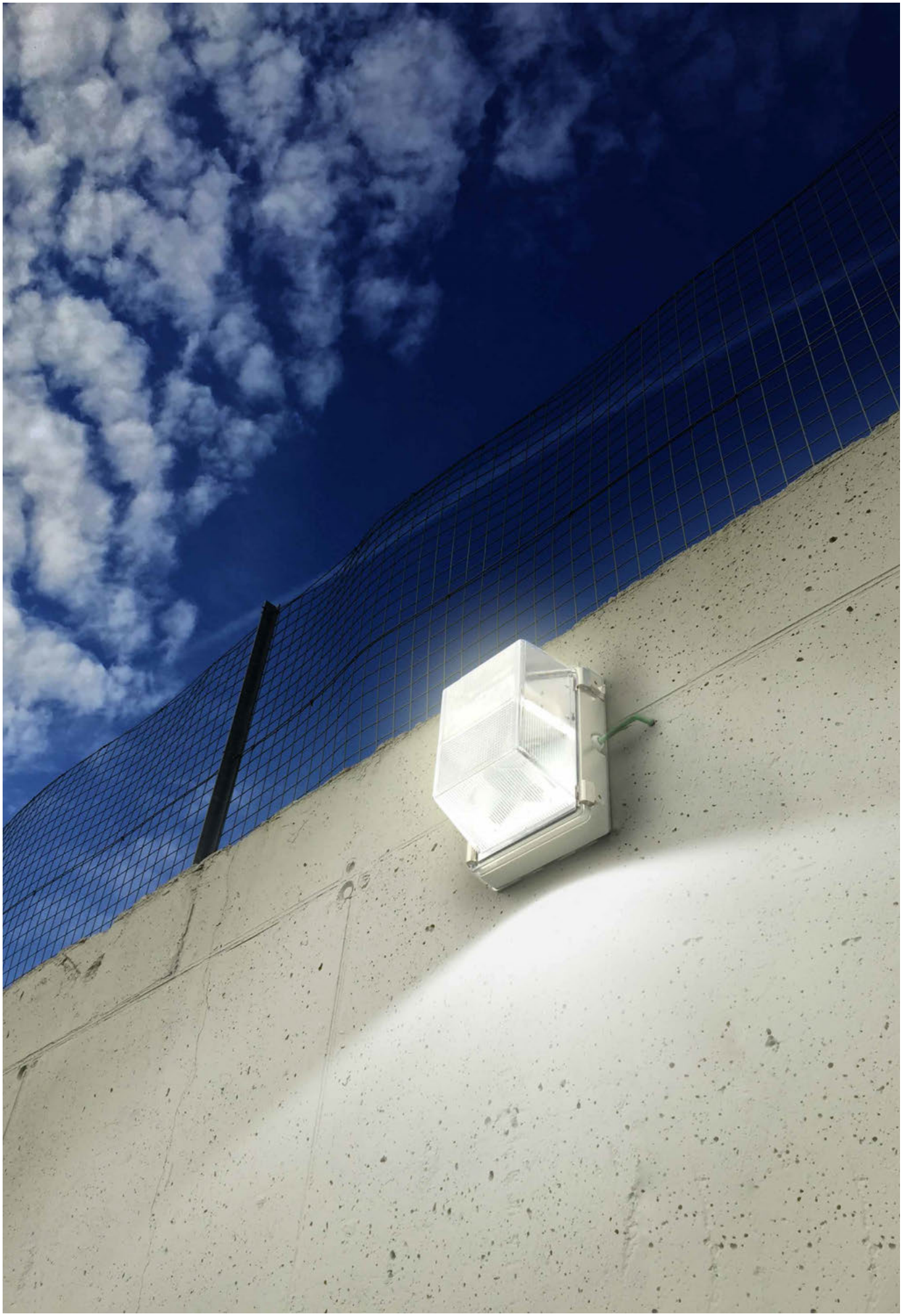


Code 8357

ON/OFF electronic wiring 230V-50/60Hz

Code	Item	W	lm	K	CRI	L x A x H
8357	3F 66 1 LED 6 II	9	774	4000	>80	255x176x344
8358	3F 66 2 LED 12 II	15	1530	4000	>80	255x176x344

Performances are measured and certified by our CTFs stage 2 Photometric Laboratory (more information on page 12).
Datasheets, product updates and specifications on our website: **www.3f-filippi.com**



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/ Light Management

3F Smart Lighting. Good for you, excellent for the environment.

3F Filippi is always at the forefront when it comes to proposing quality and comfortable lighting while respecting the energy impact and the environment, proposing lighting management systems in accordance with the UNI EN 15232 standard, which introduces a division into 4 energy efficiency classes for the control functions of technical installations in buildings.

3F Filippi uses the following tools to improve everyday life in the workspace:

- 3F Easy Dim
- 3F Smart Dimming
- 3F Sensor (BT)
- 3F DALI Sensor
- 3F HCL for TW fixtures
- 3F CLO
- 3F & Casambi
- 3F & KNX
- 3F Wireless

The implementation costs of these solutions are largely absorbed by the **simplification** of the electrical wiring and installation: the **reduction** in the number of conductors required, conduits, power and control panels means that the payback time of the investment is drastically reduced.

Note:
Our sales and technical departments are at your disposal to support you in choosing the best available solutions, which can also be tailor-made for your application.



/ 3F Easy Dim

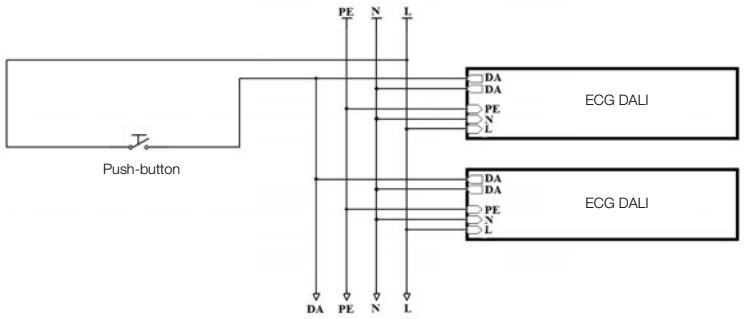
SAVINGS in your hands.

CHARACTERISTICS
3F Easy Dim technology lets you regulate luminous flux in an easy, low-cost and customisable manner. In terms of the system, it is composed of a commercially available push-button (up to 6 ballasts) and a DALI repeater/ interface (to manage more than 6 DALI drivers). This mode allows you to perform the following functions:
- Turning the luminaire **ON/OFF**.
- **Manual regulation of the lumiaire's luminous flux** on the basis of specific requirements.

ADVANTAGES
The advantage of this technology is that it gives the user the possibility to customise the quantity of light present in the environment depending on taste and requirements, while using genuinely low-cost components. The control provided is manual, and as such savings will depend on how it is managed.

SAVINGS
- **Installation phase**: up to 6 ballasts with PUSH DIM function, controlled via a commercially available push-button (environments without interference). Between 7 and 64 ballasts requires a DALI repeater.
- **Use**: if the luminous flux output is below 100%, power consumption of the luminaire is significantly reduced.

Up to 6 ballasts



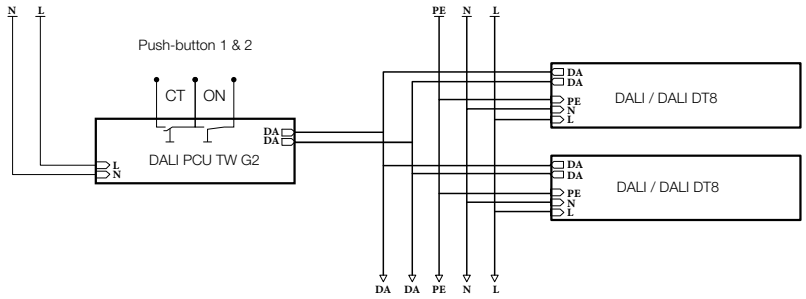
Results obtainable
- **Manually turning the luminaire** ON/OFF.
- **Manual regulation of the luminaire's luminous flux** on the basis of user requirements.

Compatible luminaires
Any luminaire from the 3F Filippi range, as long as it is equipped with DALI PUSH DIM ballast.

Components required
- 1 commercial push-button.

Note:
in environments where there is signal interference present, and with dimmer wire lengths of over 20 metres, the installation of a DALI repeater is advisable.

Up to 25 ballasts

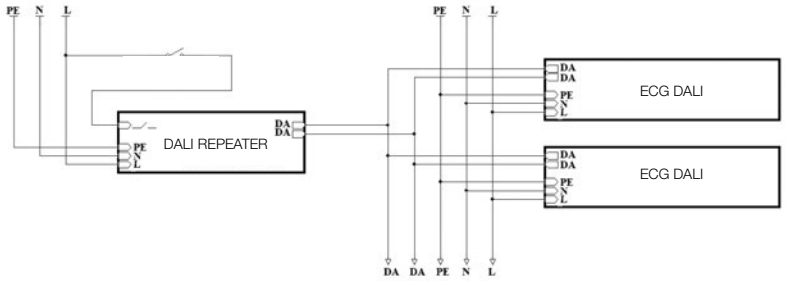


Results obtainable
- **Manually turning the luminaire** ON/OFF.
- **Manual regulation of the luminaire's luminous flux** on the basis of user requirements.
- **Manual adjustment of luminaire colour** according to user requirements (for DALI DT8 drivers only).

Compatible luminaires
Any luminaire from the 3F Filippi range, as long as it is equipped with DALI or DALI DT8 ballast.

Components required
- 1 commercial push-button for flux control and/or 1 button for colour control (DALI DT8 driver only).
- 1 DALI PCU fixture.

Up to 64 ballasts



Results obtainable
- **Manually turning the luminaire** ON/OFF.
- **Manual regulation of the luminaire's luminous flux** on the basis of user requirements.

Compatible luminaires
Any luminaire from the 3F Filippi range, as long as it is equipped with DALI ballast.

Components required
- 1 commercial push-button.
- 1 DALI repeater.

3F Easy Dim | Accessories



Code	Item
A3008	DALI ext - Repeater

Signal Repeater for expansion of DALI systems (64 drivers 300 metres of line), size 189x30x21 mm, integrated installation into the device or into the Box (cod. A3010).

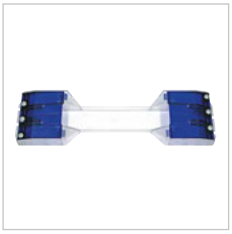
CE IP20



Code	Item
A3009	DALI DIN - Repeater

Signal Repeater for expansion of DALI systems (64 drivers 300 metres of line), size 96x72x62 mm, DIN rail mounting.

CE IP20



Code	Item
A3010	DALI - Box for repeater

Box mounted housing DALI Repeater ext (cod. A3008), size 261x71x27 mm.



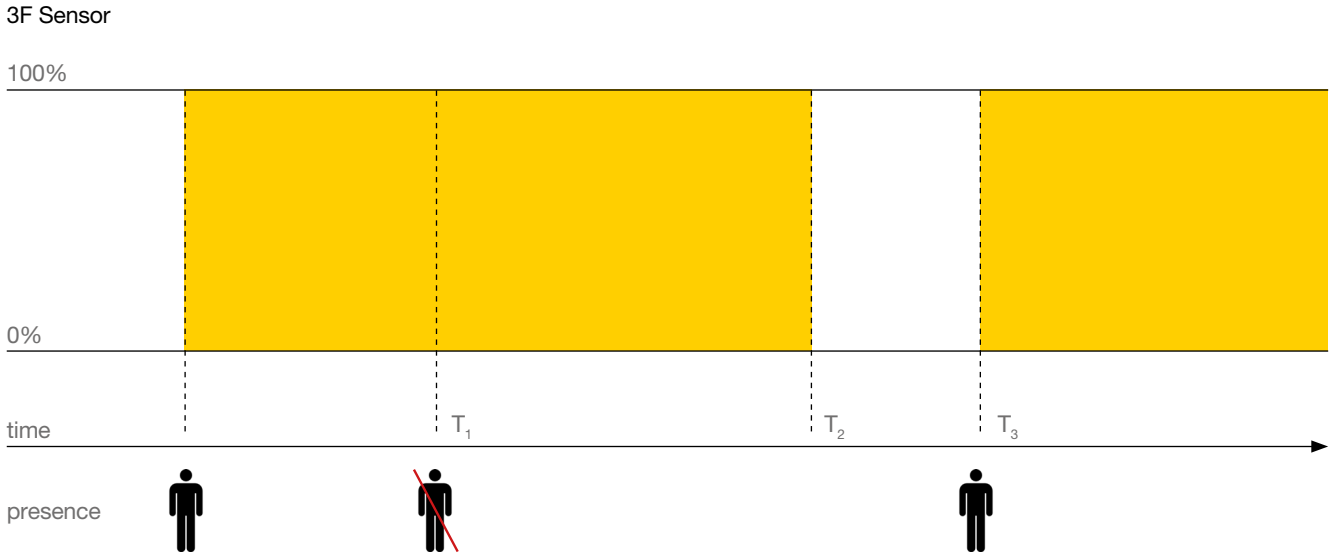
Code	Item
A3064	DALI PCU TW G2 - push button interface

DALI-2 control panel for recessed installation, dimensions 48x49x22 mm, allows to regulate the flow power on/off of a up to a maximum of 25 DALI or DALI DT8 drivers (max 300 m in a line) with just one commercial button (normally open).

CE IP20



/ 3F Sensor



Legend:

T_1 --> T_2 - switch-off delay - **default 10s**

T_2 --> T_3 - period of zero luminous flux

A **SMALL** revolution. Great advantages.

CHARACTERISTICS

Sensor technology allows you to make savings and manage your lighting systems in an easy, low-cost and customisable manner without investing significant capital in costly systems.
What we have done is extremely simple: we have incorporated an ON/OFF high-frequency (HF) 5.8GHz radar movement sensor inside the luminaire.

ADVANTAGES

The advantages of this technology create significant savings for the end customer:

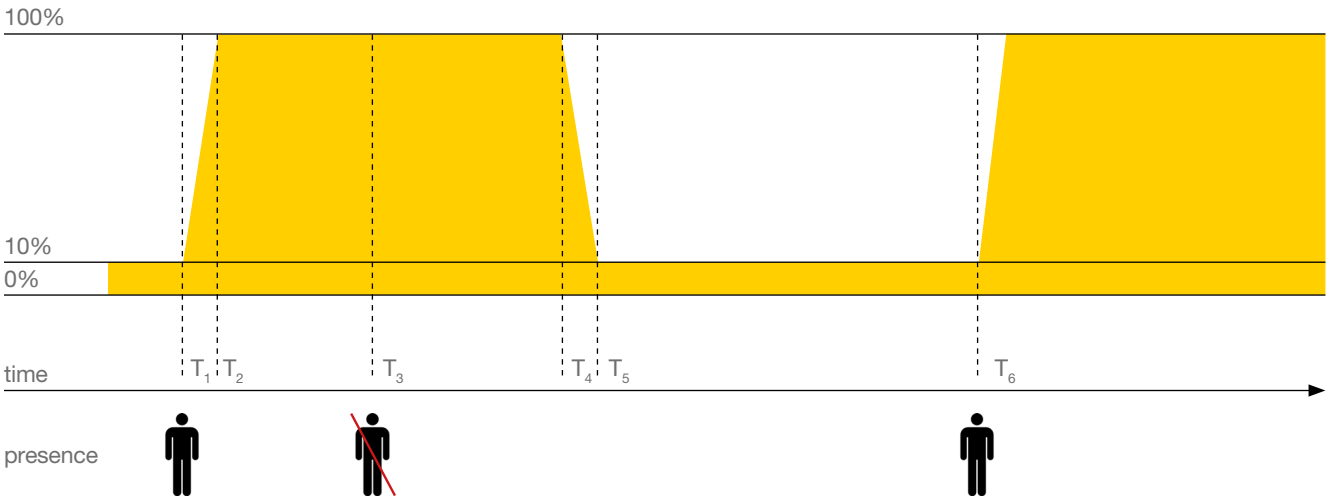
- **Time savings during installation**: no sensor network required.
- **Cost savings**: fewer materials and reduced calibration times.
- **Ease of installation**: existing installations are not modified. Simply connect the devices to the mains.
- **Customisation of brightness levels**: each unit is independent of the others.

SAVINGS

For the customer the benefits are tangible:

- **Installation**: no expenditure on electrical equipment.
- **Independence and precision**: each luminaire manages itself.
- **Simplicity**: no loss of time when adjusting the system.
- **Integration with existing installations**: no expenditure on adapting installations.

3F Sensor CF



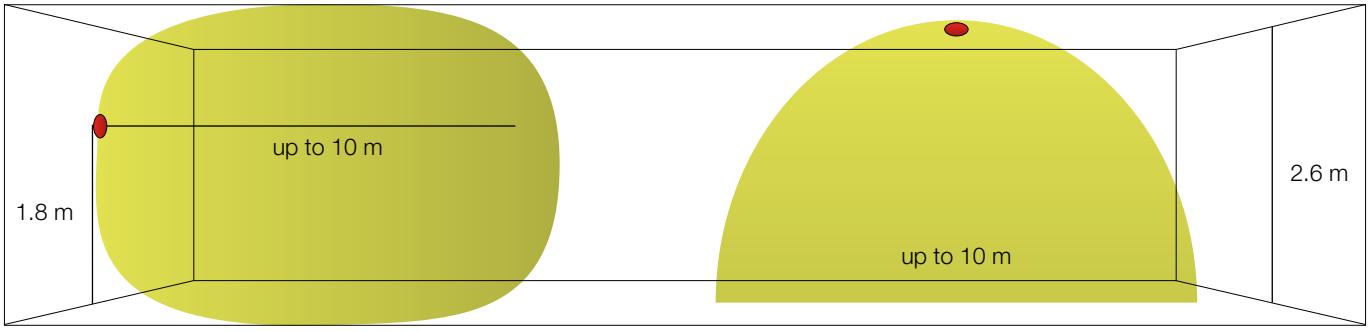
Legend:

T_1 --> T_2 - luminous flux increase time

T_3 --> T_4 - switch-off delay - **default 10s**

T_4 --> T_5 - luminous flux decrease time

T_5 --> T_6 - luminous flux reduced 10%



Luminaire wall installation

Installation Ceiling luminaires

Note:
RADAR technology goes beyond glass, wood and plasterboard, therefore for the correct functioning of the luminaire, the sensor detection field (see instruction sheet) must be adjusted according to the type of installation/room.

Versions	**Sensor**	**Corridor Sensor Function**
Standard position (no movement)	Luminaire off	Kept on at 10% power
Automatic	Via ON/OFF high-frequency (HF) 5.8GHz radar movement sensor	
Mounting height	Wall installation at max 2.7 metres - Ceiling installation at max 4 metres	
Twilight function	Daylight / 300 lux / 150 lux / Twilight / Night / Programmable mode **(default setting “daylight”)**	
Switch-off delay	From 10 seconds to 30 minutes **(default setting 10s)**	
Sensitivity/detection field	20% - 30% - 50% - 75% - 100% **(default setting 75%)**	

/ 3F Sensor Bluetooth



CHARACTERISTICS

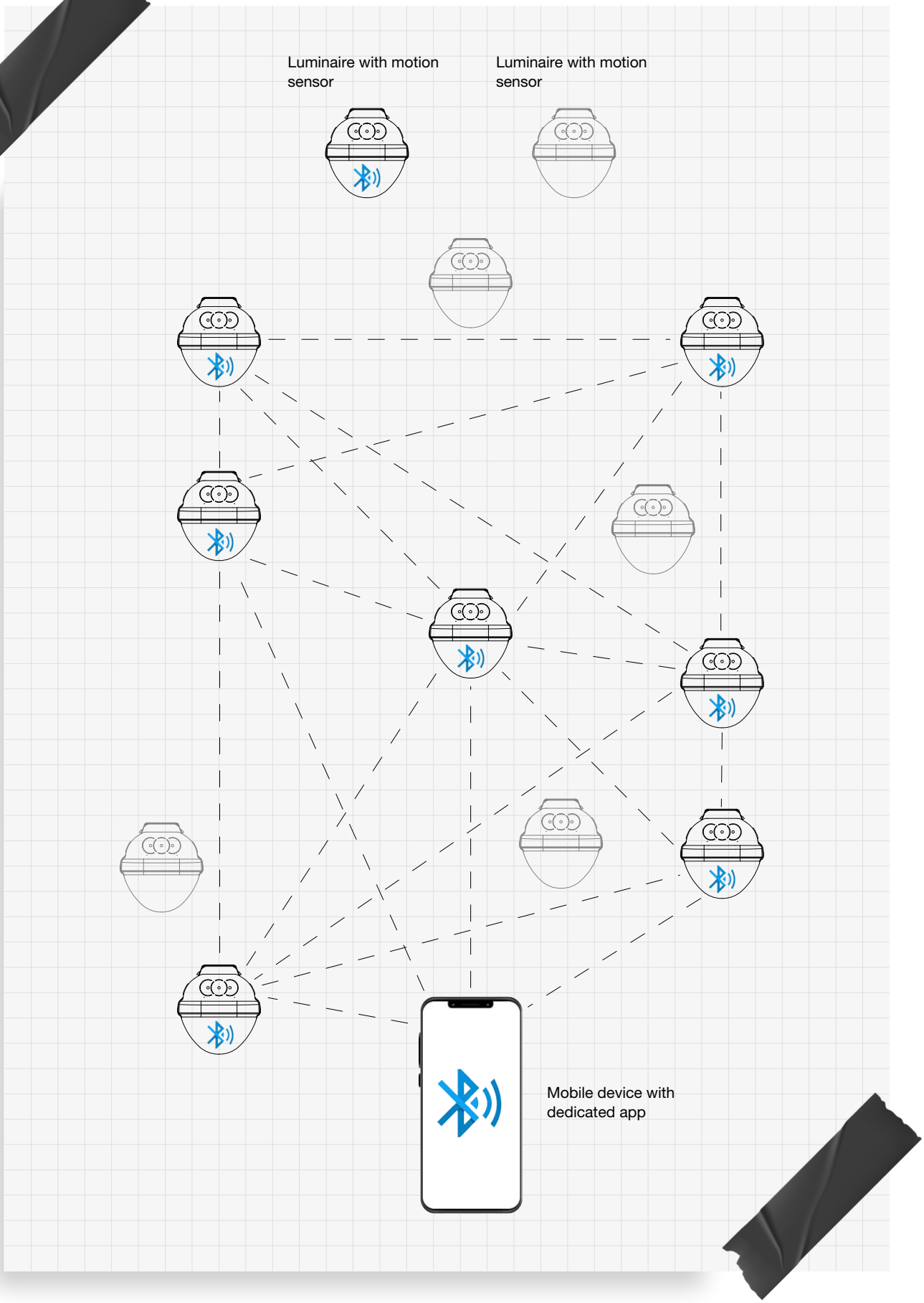
We have integrated a high frequency DALI radar motion detector (HF) 5.8GHz inside the 3F Linda Sensor DALI-BLE that operates Bluetooth with other DALI-BLE fixtures.
The onboard sensor makes it possible to regulate individual or groups of fixtures or profiles for a complete installation.
The distance between the fixtures can be up to 20 m for indoor installations. Fixtures with 3F Sensor Bluetooth technology can be managed in the following way:

- Individually - every fixture turns on/off according to movement and adjusts according to programmed behaviour on the APP.
- Master-Slave configuration --- using the APP it is possible to create groups of fixtures to manage each area.

ADVANTAGES

It is not necessary to modify the existing electrical system, you just need to connect the fixtures to the power grid, saving on installation time.
3F Sensor DALI-BLE technology unlike 3F Sensor allows for:
Bluetooth communication between fixtures.
The creation of groups of fixtures without any other physical connections.
Different function profiles that can be easily programmed by the end user using an APP on a Tablet or Smartphone (available for iOS and Android) for example:

- Sensitivity 10 ... 100%.
- Hold time 5 seconds ... 60 minutes.
- Daylight sensor 1 Lux ... 500 Lux; teach in.
- DIM level 0 ... 100%.
- Program Mode On / Off, Permanent, Corridor.
- Soft-Dim: active / inactive.



IMPORTANT:
RADAR technology goes beyond glass, wood and plasterboard; therefore for the correct functioning of the luminaire, the sensor detection field (see instruction sheet) must be adjusted according to the type of installation/room.

/ 3F DALI Sensor



CHARACTERISTICS

Luminaires with 3F DALI Sensor technology are equipped with a DALI brightness and presence sensor which allows the luminous flux to be switched on/off and regulated automatically on the basis of the natural light (to exclude the presence detection, accessory A3047 and the BEG APP are required).

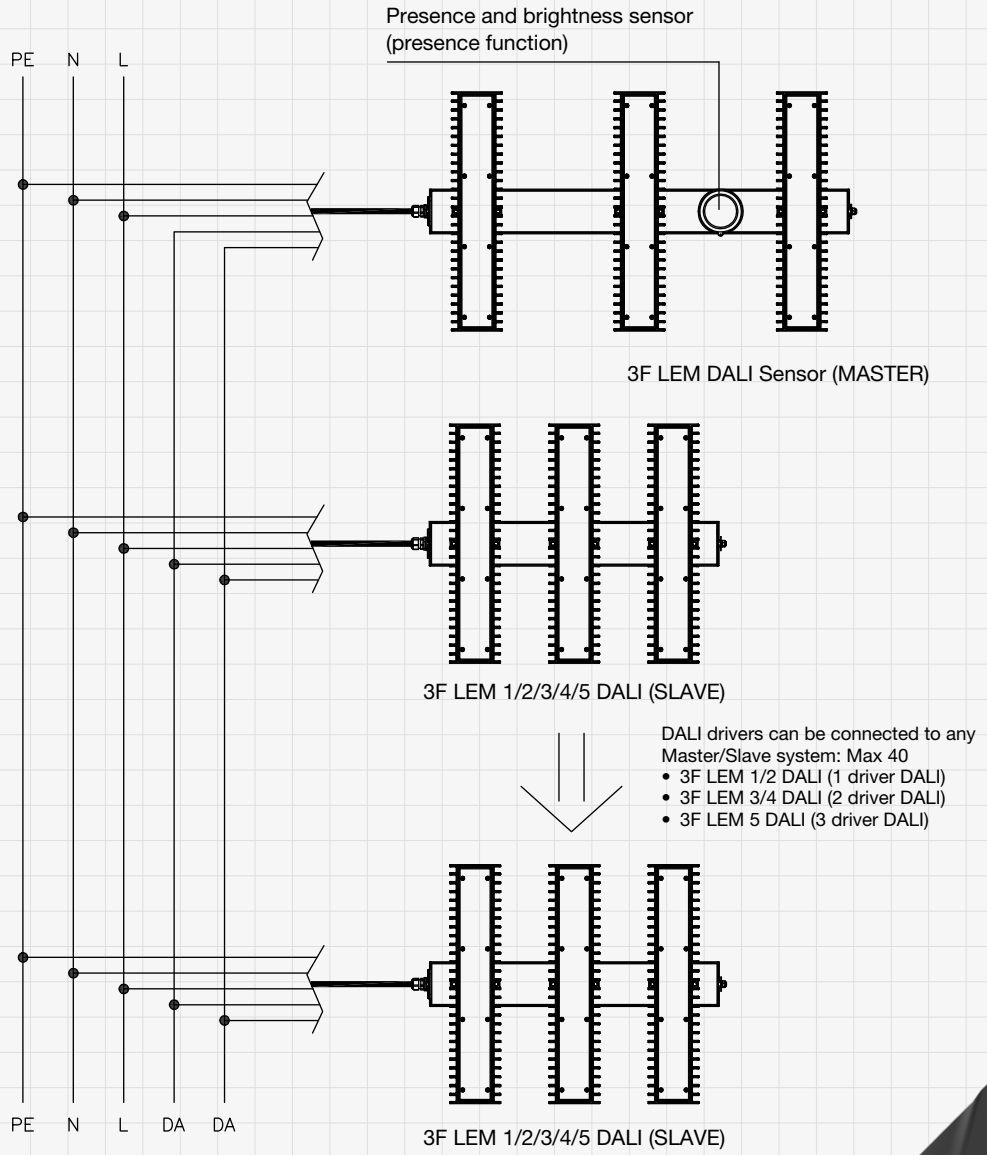
Luminaires with 3F DALI Sensor technology can be installed in the two following ways:

Individually - each luminaire switches on/off and regulates its flow independently with respect to the other luminaires, and it is therefore no longer necessary to create or modify existing electrical systems, only to connect the luminaires to the mains supply, thus reducinginstallation times.

Master - Slave configuration – each 3F DALI Sensor luminaire can be connected to other standard 3F dimmable DALI luminaires by following the method given in the application examples. In this case, switching on/off and regulation of the luminous flux will be managed in zones/groups of luminaires, saving on the number of sensors in the field.

In both solutions, the initial programming of the sensor can be performed simply and conveniently with the use of the DALI IR programmer (code A3020) or the BLE IR adapter for Smartphones (code A3047).
For technical specifications and for further information, see the details in the “**3F Smart Dimming accessories**” chapter, or contact our technical department.

Typical application example for 3F LEM DALI Sensor:
Connection diagram for broadcast operation, between the 3F Travetta LED DALI LS luminaire (with integrated DALI presence and brightness sensor - MASTER function) and 3F Travetta LED DALI luminaires (equipped with DALI drivers - SLAVE function).
Allows the level of lighting to be kept constant between all connected luminaires, on the basis of the natural light, as well as centralised on/off commands when motion is detected and with the twilight threshold set. (to exclude the presence detection, accessory A3047 and the BEG APP are required).



IMPORTANT:
the DALI line of the MASTER luminaires cannot be connected to buttons! If you require manual regulation, contact our technical department.

/ 3F Smart Dimming



CHARACTERISTICS
Smart Dimming technology allows you to make savings and manage your lighting systems in an easy, low-cost and customisable manner without investing significant capital in costly systems.
Products in this range have functions such as:

- Turning on and automatically regulating the luminaire **on the basis of the chosen level of brightness**.
- Luminaire switching **on the basis of presence** of persons in the radius of operation of the luminaire (the detection area can be extended using slave sensors).
- **Manual regulation and ON/OFF** via accessory remote controls or push-buttons.

ADVANTAGES
The advantages of this technology offer significant energy savings for the end customer, calculated as being up to 80% compared to an on-off solution with combined sensors for light and presence regulation. It is also possible to create made-to-measure lighting based on the requirements of the environment and the light level required.

SAVINGS
The advantages are real and tangible in these aspects for the end customer:

- **Quick, simple installation.**
- **Energy savings.**
- **Reduced time to see return on investment.**

Installation Reference - Office / Open space

Up to 50 drivers/ballasts - Installation height up to 4 metres

Results obtainable

- **Manual ON/OFF/regulation** of the luminaire via optional remote control or push-button.
- **Automatic regulation of the luminaire's light flow** depending on the amount of natural light and/or presence of personnel.
- Extension of the presence detection area through the use of slave sensors.

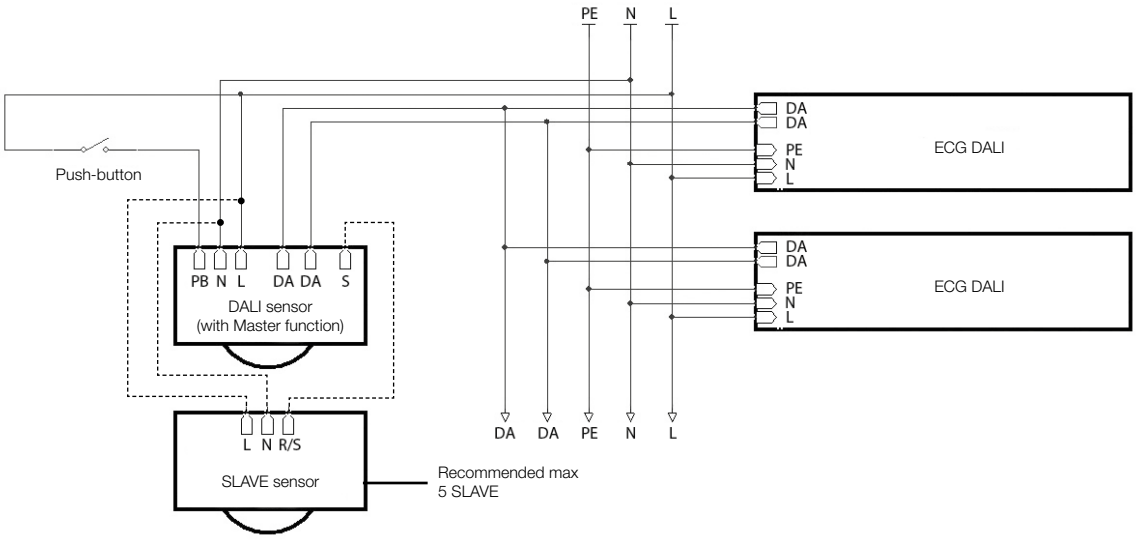
Compatible luminaires

Any luminaire from the 3F Filippi range, as long as it is equipped with DALI ballast.
On request, can also be implemented with 1-10V components (drivers and sensors).

Components required

- 1 commercially available push-button (optional).
- Luminaire with DALI driver.
- 1 DALI Sensor A (recessed) or DALI ext Sensor A (ceiling mount).
- IR adaptor for Smartphones (optional).
- DALI BLE IR programmer (optional).
- DALI IR remote control (optional).
- 1 Sensor A SLAVE or 1 Sensor A SLAVE-ext (optional for extending the presence detection area).

Wiring diagram



Note: to deactivate presence sensing, accessory A3047 and the BEG APP are required.

/ 3F Smart Dimming

Installation Reference - Industrial / Gymnasiums

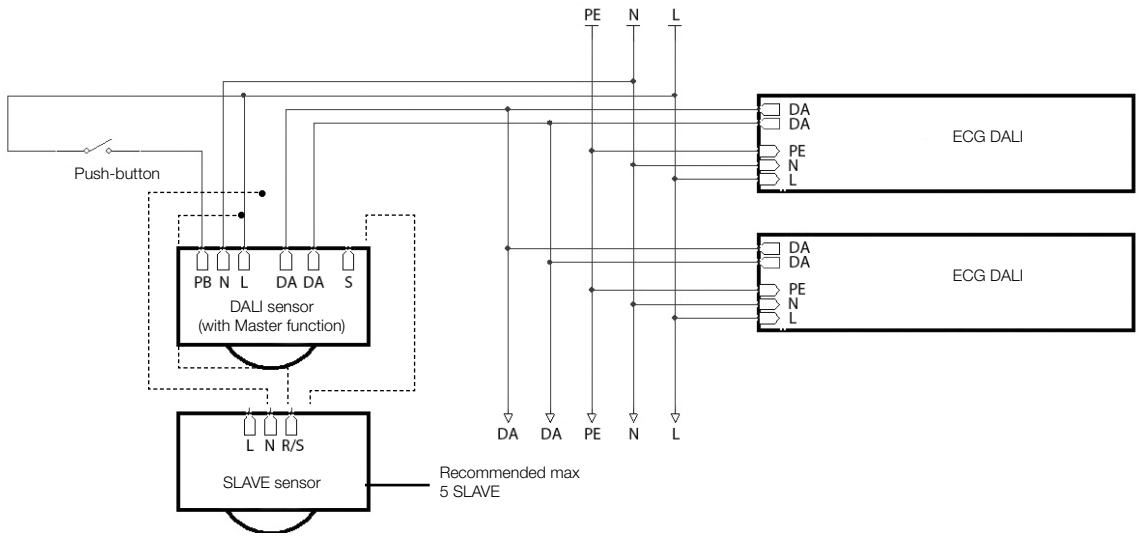
Up to 50 ballasts - Installation height between 4 and 9 metres

Results obtainable
- **Manual ON/OFF/regulation** of the luminaire via optional remote control or push-button.
- **Automatic regulation of the luminaire's light flow** depending on the amount of natural light and/or presence of personnel.
- Extension of the presence detection area through the use of slave sensors.

Compatible luminaires
Any luminaire from the 3F Filippi range, as long as it is equipped with DALI ballast.
On request, can also be implemented with 1-10V components (drivers and sensors).

Components required
- 1 commercially available push-button (optional).
- Luminaire with DALI driver.
- 1 DALI Sensor B (recessed) or DALI ext Sensor B (ceiling mount).
- IR adaptor for Smartphones (optional).
- DALI BLE IR programmer (optional).
- DALI IR remote control (optional).
- 1 Sensor B SLAVE or 1 Sensor B SLAVE-ext (optional for extending the presence detection area).

Wiring diagram



N.b.: to deactivate presence sensing, accessory A3047 and the BEG APP are required.

Installation Reference - School classroom

Up to 50 ballasts

Results obtainable

- **Manual ON/OFF/regulation** of the luminaire via optional remote control or push-button.
- **Automatic regulation of the luminous flux** of the luminaires in a differentiated manner depending on the natural light present in two different areas: the sensor measures the brightness at two points (for example, near the window and in the darkest area of the classroom), and adjusts the fluxes of the luminaires lighting those areas as a consequence.
- Extension of the presence detection area through the use of slave sensors.

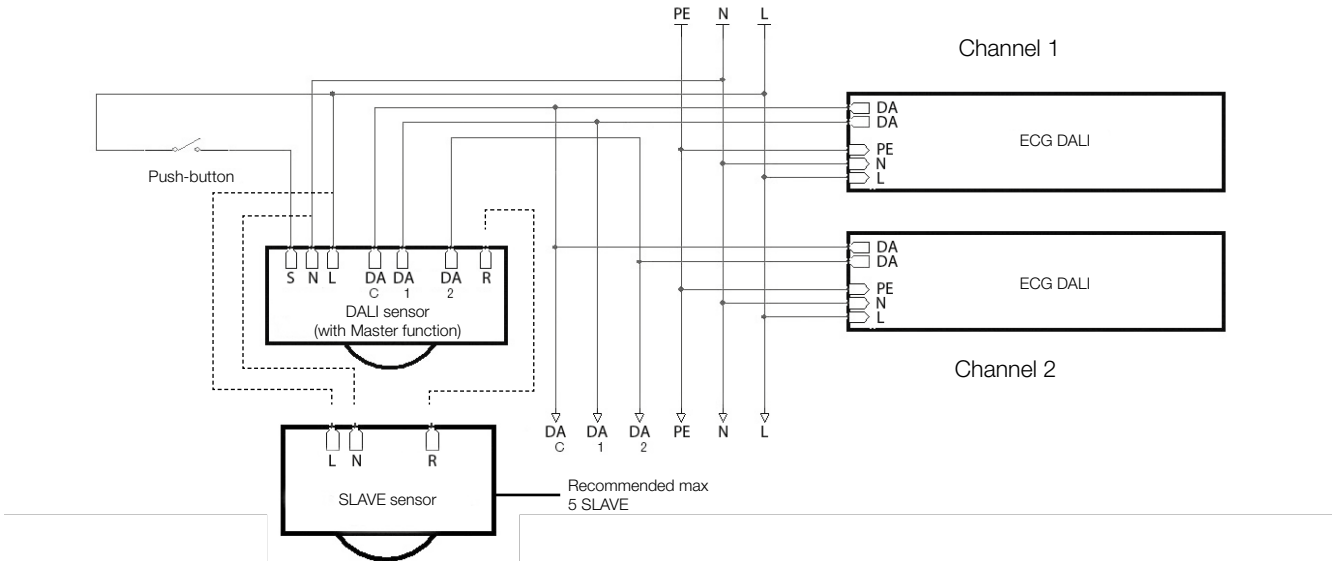
Compatible luminaires

Any luminaire from the 3F Filippi range, as long as it is equipped with DALI ballast.
On request, can also be implemented with 1-10V components (drivers and sensors).

Components required

- 1 commercially available push-button (optional).
- Luminaire with DALI driver.
- 1 Dual-DALI Sensor B.
- IR adaptor for Smartphones (optional).
- DALI BLE IR programmer (optional).
- DALI IR remote control (optional).
- 1 Sensor B SLAVE or 1 Sensor B SLAVE-ext (optional for extending the presence detection area).

Wiring diagram

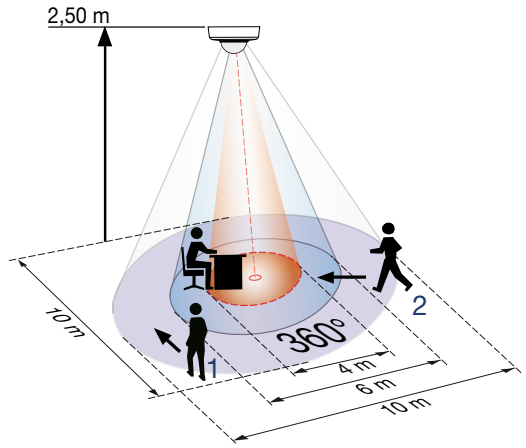


N.b.: to deactivate presence sensing, accessory A3047 and the BEG APP are required.

/ 3F Smart Dimming

Detection field

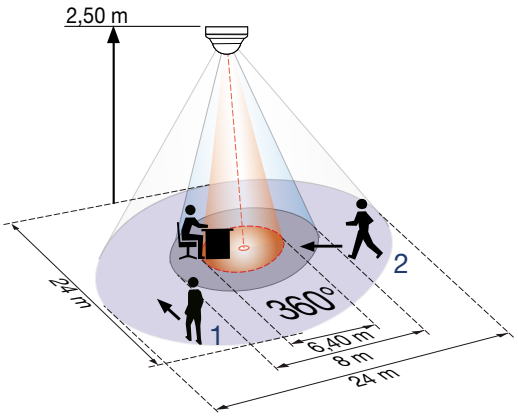
Sensor A DALI, Sensor A ON/OFF, Sensor A SLAVE



1 Approaching transversely
2 Approaching front-on
Sedentary activity

Range of action (circular detection area) with T=18°			
Mounting height	Fixed position	Transverse movement	Approaching the detector front-on
2.00 m	r=1.60	r=4.00	r=2.50
2.50 m	r=2.40	r=5.00	r=3.00
3.00 m	-	r=6.00	r=3.70
3.50 m	-	r=7.00	r=4.30
4.00 m	-	r=8.00	r=4.80
4.50 m		r=9.00	r=5.40
5.00 m	-	r=10.00 m	r=6.00

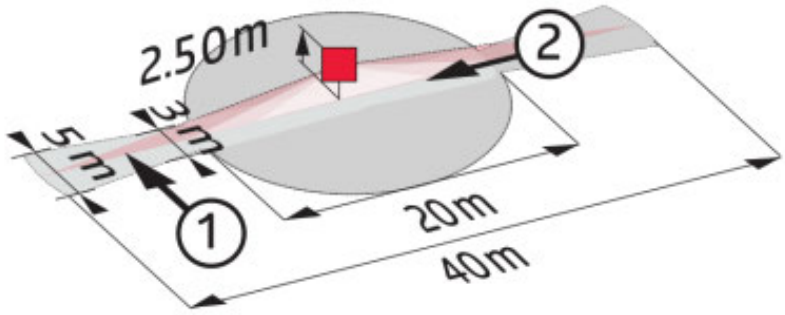
Sensor B DALI, Sensor B ON/OFF, Sensor B SLAVE, Sensor B Dual



1 Approaching transversely
2 Approaching front-on
Sedentary activity

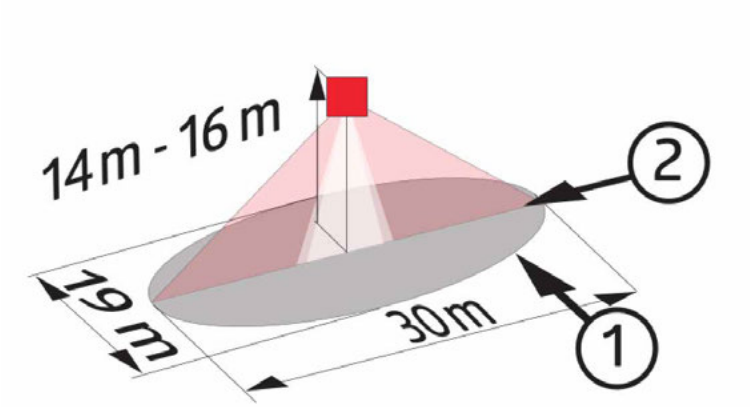
Range of action (circular detection area) with T=18°			
Mounting height	Fixed position	Transverse movement	Approaching the detector front-on
2.00 m	r=2.60	r=8.50	r=3.20
2.50 m	r=3.20	r=12.00	r=4.00
3.00 m	r=3.80	r=14.50	r=4.80
3.50 m	r=4.50	r=17.00	r=5.50
4.00 m	-	r=19.50	r=6.80
4.50 m	-	r=22.00	r=7.20
5.00 m	-	r=24.00 m	r=8.00
10.00 m	-	r=24.00 m	r=8.00

Sensor Corr, Sensor Corr Slave



1 Approaching the detector diagonally
2 Approaching the detector front-on

Sensore B GH



h	L	B
5.0 m	26.0 m	18.0 m
6.0 m	26.0 m	18.0 m
7.0 m	28.0 m	19.0 m
8.0 m	28.0 m	19.0 m
9.0 - 16.0 m	30.0 m	19.0 m

1 Approaching the detector diagonally
2 Approaching the detector front-on

3F Smart Dimming | Accessories

Type A sensors (H max = 5mt)



Code	Item
A3013	A on/off - Sensor

Presence detector On/Off, recessed, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, circular detection area Ø 10 m, with Master function. Integrated twilight sensor. IP20 protection degree.
On request: programming with remote control code A3023 or with smartphone via accessory code A3047.

CE IP20



Code	Item
A3014	A on/off-ext - Sensor

Presence detector On/Off, ceiling mounted, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, circular detection area Ø 10 m, with Master function. Integrated twilight sensor. IP20/IP54 rated (exposed part).
On request: programming with remote control code A3023 or with smartphone via accessory code A3047. On request: IP54 cap code A3024, to obtain total IP54 rating.

CE IP20 IP54



Code	Item
A3039	A DALI-2 - Sensor

Presence detector On/Off, recessed, with one DALI-2 interface, can be controlled remotely, circular detection area Ø 10 m, with Master function. Integrated light sensor for automatic constant light control. Drive up to 40 DALI drivers. IP20 protection degree.
On request: programming/regulation with remote control code A3020 and A3021 or with Smartphone via accessory code A3047.

CE IP20



Code	Item
A3040	IP54 ceiling base for A DALI-2 sensor

IP54 base for ceiling installation of A DALI-2 Sensor.

CE IP54



Code	Item
A3025	A SLAVE - Sensor

Recessed Slave presence detector, compatible with sensors with Master function, such as Sensor A DALI-2 and Sensor A on/off, circular detection area Ø 10 m. IP20 protection degree.

CE IP20

Type A sensors (H max = 5mt)



Code	Item
A3026	A SLAVE-ext - Sensor

Ceiling mounted Slave presence detector, compatible with sensors with Master function, such as Sensor A DALI-2 and Sensor A on/off, circular detection area Ø 10 m. IP20/IP54 rated (exposed part).
On request: IP54 cap code A3024, to obtain total IP54 rating.

CE IP20 IP54

Type B sensors (H max = 10mt)



Code	Item
A3018	B on/off - Sensor

Presence detector On/Off, recessed, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, circular detection area Ø 24 m, with Master function. Integrated twilight sensor. IP20 protection degree.
On request: programming with remote control code A3023 or with smartphone via accessory code A3047.

CE IP20



Code	Item
A3019	B on/off-ext - Sensor

Presence detector On/Off, ceiling mounted, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, circular detection area Ø 24 m, with Master function. Integrated twilight sensor. IP20/IP54 rated (exposed part).
On request: IP54 cap code A3024, to obtain total IP54 rating. On request: programming with remote control code A3023 or with smartphone via accessory code A3047.

CE IP20 IP54



Code	Item
A3041	B DALI-2 - Sensor

Presence detector On/Off, recessed, with one DALI-2 interface, can be controlled remotely, circular detection area Ø 24 m, with Master function. Integrated light sensor for automatic constant light control. Drive up to 40 DALI drivers. IP20 protection degree.
On request: programming/regulation with remote control code A3020 and A3021 or with Smartphone via accessory code A3047.

CE IP20



Code	Item
A3042	IP54 ceiling base for B DALI-2 sensor

IP54 base for ceiling installation of B DALI-2 Sensor.

CE IP54

Type B sensors (H max = 10mt)



Code	Item
A3027	B SLAVE - Sensor

Recessed Slave presence detector, compatible with sensors with Master function, such as Sensor B DALI-2 and Sensor B on/off, circular detection area Ø 24 m. IP20 protection degree.

IP20



Code	Item
A3028	B SLAVE-ext - Sensor

Ceiling mounted Slave presence detector, compatible with sensors with Master function, such as Sensor B DALI-2 and Sensor B on/off, circular detection area Ø 24 m. IP54 protection degree.

IP54



Code	Item
A3015	B Dual-DALI - Sensor

Presence detector, recessed, with two DALI interfaces, can be controlled remotely, circular detection area Ø 24 m, with Master function. Two integrated light sensors for automatic constant light control. Drive up to 50 digital electronic drivers for each channel. IP20 protection degree.
On request: programming/regulation with remote control code A3020 and A3021 or with Smartphone via accessory code A3047.

IP20

Type B GH sensors (H max = 16mt)



Code	Item
A3043	DALI-2 Sensor - Type B - GH

Presence detector with one DALI-2 interface, ceiling mounted, for mounting at great heights, transverse detection area Ø 30 m, with Master function. Maximum installation height 16 m. Telescopic external light sensor for precise light measurement in a single application. Integrated twilight sensor. IP54 protection degree.
On request: programming with remote control code A3038 or with smartphone via accessory code A3047.

IP54



Code	Item
A3038	IR DALI GH - Programmer

IR remote control for programmer, compatible with DALI sensors (incompatible with On-Off and Slave sensors), especially for long distances.

Type Corr sensors



IP20

Code	Item
A3029	Corridor on/off - Sensor

Presence detector On/Off, recessed, special for corridors, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, detection area tangential Ø 40 m, frontal Ø 20 m, with Master function. Maximum installation height 2.70 m. Integrated twilight sensor. IP20 protection degree.
On request: programming with remote control code A3023 or with smartphone via accessory code A3047.



IP54

Code	Item
A3030	Corridor on/off-ext - Sensor

Presence detector On/Off, ceiling mounted, special for corridors, single channel (normally open, potential free) with a maximum load of 2 kW (with power factor 0.9), can be controlled remotely, detection area tangential Ø 40 m, frontal Ø 20 m, with Master function. Maximum installation height 2.70 m. Integrated twilight sensor. IP54 protection degree.
On request: programming with remote control code A3023 or with smartphone via accessory code A3047.



Code	Item
A3044	Corridor det. lens for B DALI-2 sensor

Corridors detection area lens for B DALI-2 recessed and/or surface mounted sensors.



IP20

Code	Item
A3033	Corridor SLAVE - Sensor

Recessed Slave presence detector, special for corridors, compatible with sensors with Master function, such as Sensor Corr DALI and Sensor Corr on/off, tangential detection area Ø 40 m, frontal Ø 20 m. IP20 protection degree. Maximum installation height 2.70 m.



IP54

Code	Item
A3034	Corridor SLAVE-ext - Sensor

Ceiling mounted Slave presence detector, special for corridors, compatible with sensors with Master function, such as DALI Corr sensor and Corr sensor on/off, tangential detection area Ø 40 m, frontal Ø 20 m. IP54 protection degree. Maximum installation height 2.70 m.

Cap for ceiling mounted sensors



Code	Item
A3024	IP54 White fixing

Cap for ceiling mounted sensors, to obtain IP54 rating (total) for H 15 mm. Compatible with the following sensors:
- Sensor A on/off ext code A3014
- Sensor B on/off ext code A3019
- Sensor A SLAVE ext code A3026

CE IP54

Sensor programmers



Code	Item
A3020	IR DALI - Programmer

IR remote control for programmer, compatible with DALI sensors (incompatible with On-Off and Slave sensors).

CE



Code	Item
A3021	IR DALI - Remote controller

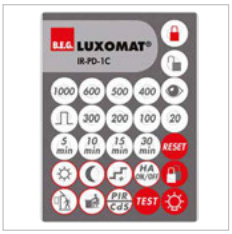
IR remote control for user, compatible with DALI sensors (incompatible with On-Off and Slave sensors).

CE



Code	Item
A3047 NEW	BLE-IR - Adapter for Smartphone

BLE-IR adapter for Smartphones, compatible with all programmable sensors. Free App available for Android and iOS devices.



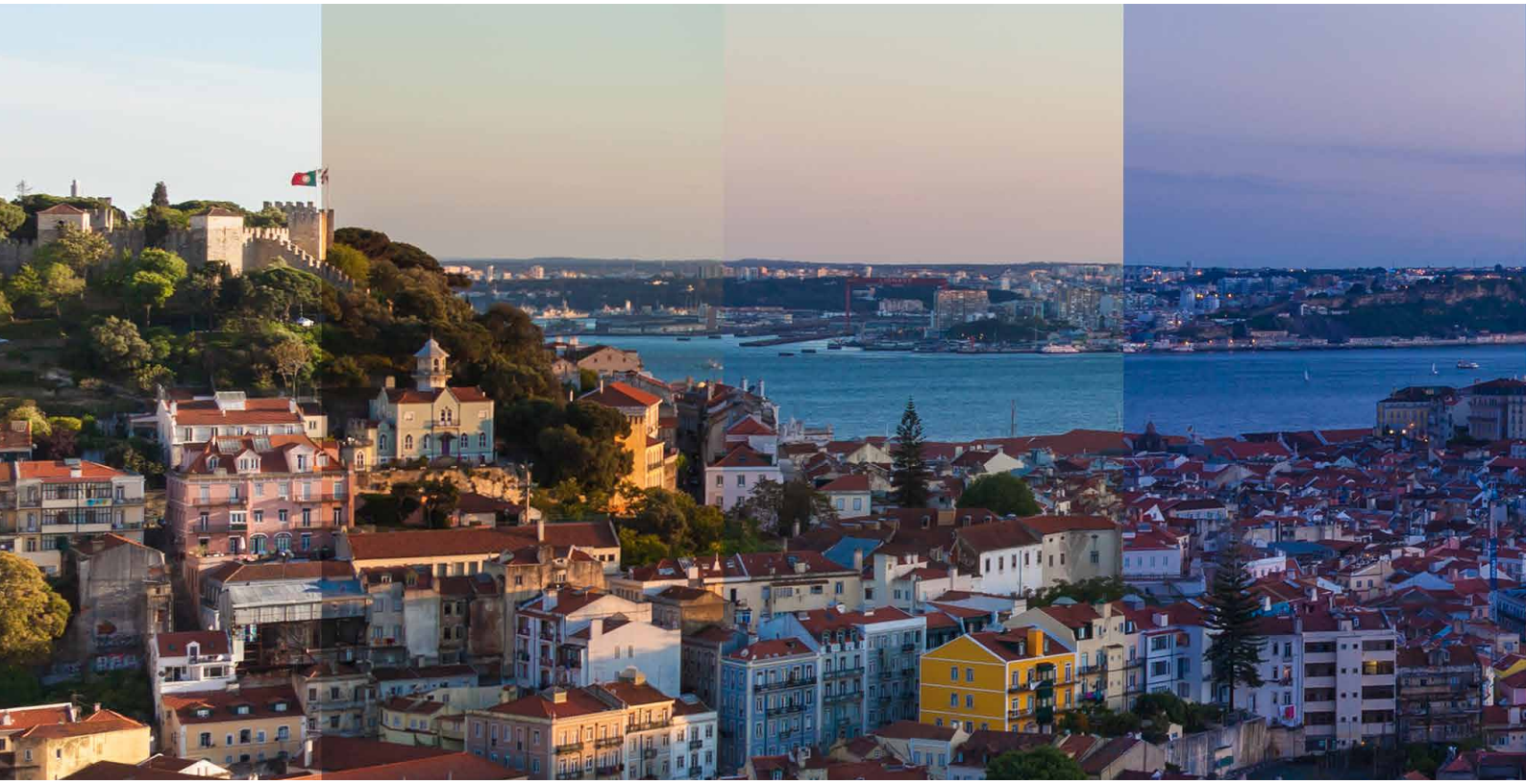
Code	Item
A3023	IR on/off - Programmer

IR remote control for programming on/off sensors incompatible with DALI and Slave sensors).

CE



/ 3F HCL
for Tunable White fixtures



Colour **TEMPERATURE** variation.

The new standard EN 12464-1:2021 elaborates on the importance of lighting concepts in the workplace and the impact lighting has on circadian rhythms and moods leading to improved performance and well-being of people.

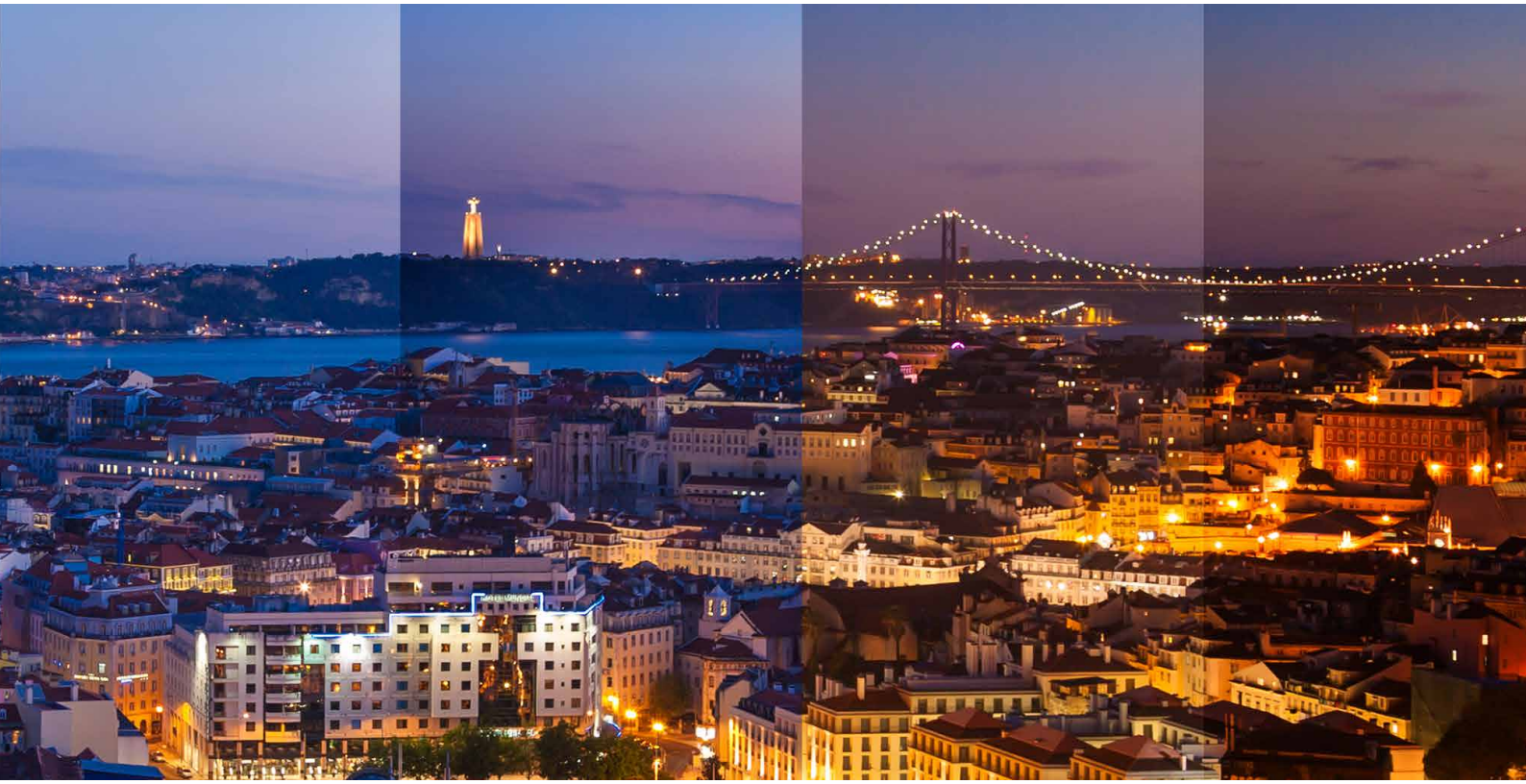
Natural light is one of the most important sensory stimuli for our body, and it also has an enormous effect on our mental and emotional state. For this reason, HCL luminaires have been designed to replicate natural light, taking the following requirements into consideration:

- Dynamism of light over time.
- Dynamism of colour temperature over time.
- Symmetrical light diffusion.
- Freedom of use for each individual.

HCL luminaires allow users to change both intensity and temperature of the emitted light, thus improving comfort and increasing the feeling of well-being.

Recent studies (performed by Lighting Europe) have shown that HCL luminaires improve concentration as well as the safety and efficiency of the workplace or training and school environments. For this reason, 3F Filippi has decided to create a series of new luminaires to help people feel better by putting their requirements at the centre of the design, also from a biological point of view.

Note:
If you require more information, do not hesitate to contact our Sales Network or our Technical Offices.



In order to take proper advantage of these luminaires, it is essential that:

- The artificial light follows the cycle of the natural light.
- The management systems can also be manually adjusted, according to each user's sensitivity.
- Right from the lighting design stage, factors such as exposure of the environment to natural light, the users' biological situations and the tasks they must perform are taken into account.
- Always consult a qualified and reliable lighting designer.

HCL technology allows for:

- Control of variation of the white colour temperature (Tunable-white).
- Simulated changing of daylight over the course of the day.
- Modulation of the colour temperature along the Planck curve from 2700K to 6500K.
- Colour rendering index CRI >80.
- Colour tolerance: 3 MacAdam ellipses.
- LED source luminous efficiency - up to 155 lm/W.

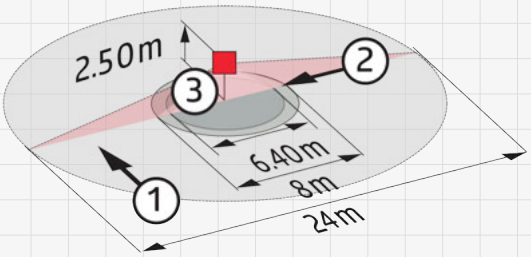
ATTENTION: 2-channel DT8 driver - constant colorimetric on all attenuation levels:
The TW Tunable White fixtures can be regulated using two different systems:
Wired automatic control system.
3F Casambi control system.

Detection scheme

The HCL DT8 presence and light sensors allow the management of a group of Tunable White (TW) devices, up to a maximum of 50 drivers.

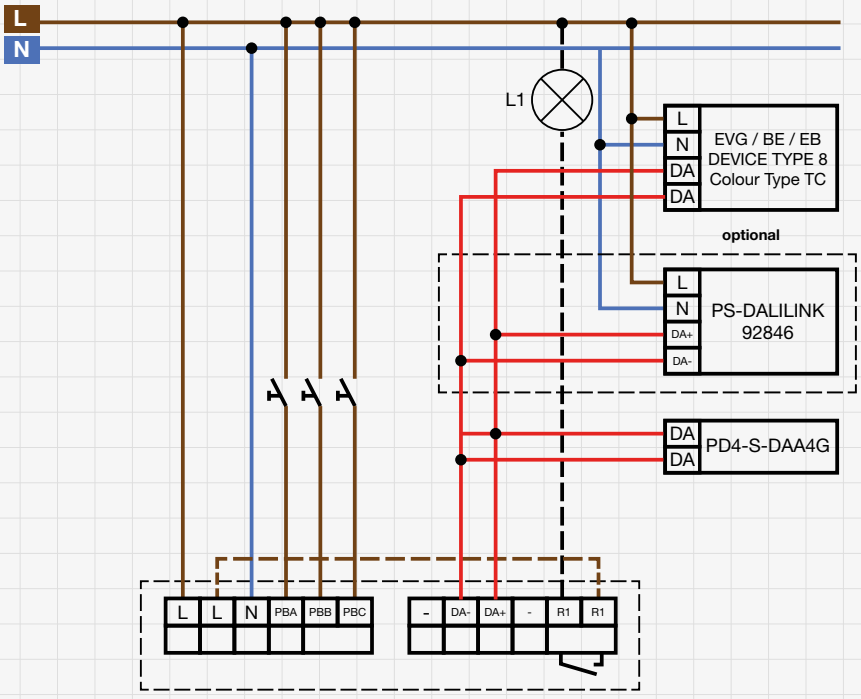
The sensors have the following characteristics:

- Integrated presence detector capable of controlling up to 50 DALI DT8 devices
- Integrated brightness detected for automatic adjustment of the luminous flux of the luminaires, based on the supply of natural light
- Integrated clock for automatically adjusting the color temperature following the circadian rhythm by programming from the free APP
- n. 3 output channels for HCL control of 3 groups of TW devices
- n. 1 DALI output channel
- n. 1 relay output channel (max 300W LED)
- n. 3 NO button inputs: 1 button to adjust the luminous flux of the HCL channel, 1 button for DALI channel control and 1 button for relay channel control



1. Transversal approach to the detector
2. Frontal approach to the detector
3. Fixed position: h 2,5 m

Electrical connection diagram



3F HCL | Accessories



Code	Item
A3045	HCL2 DT8 - Sensor

Recessed presence detector with integrated clock for the management and control of Tunable White (TW) devices, remotely controllable, circular detection area Ø 24 m, equipped with Master function. Integrated light sensor for automatic regulation of constant light n. 3 output channels for HCL control of n. 3 groups of TW appliances, n. 1 DALI output channel, n. 1 relay output channel (max 300 W LED). Drive up to 50 DALI drivers. Maximum installation height 10 m.

CE IP20



Code	Item
A3046	HCL2 DT8-ext - Sensor

Ceiling presence detector with integrated clock for the management and control of Tunable White (TW) devices, remotely controllable, circular detection area Ø 24 m, equipped with Master function. Integrated light sensor for automatic regulation of constant light n. 3 output channels for HCL control of n. 3 groups of TW appliances, n. 1 DALI output channel, n. 1 relay output channel (max 300 W LED). Drive up to 50 DALI drivers. Maximum installation height 10 m.

CE



Code	Item
A3047 NEW	BLE-IR - Adapter for Smartphone

BLE-IR adapter for Smartphones, compatible with all programmable sensors. Free App available for Android and iOS devices.
Mandatory accessory for programming the HCL DT8 sensors.

/ 3F & Casambi

FUNCTIONS

Control Type:
Casambi control can be done using:
- Buttons and switches (manual control).
- App (manual digital control).
- Sensors and timers (automatic digital control).

Grouping:
Different fixtures can be grouped together to be managed all together or individually. Grouping is easy and the same as grouping apps on smart devices.

Scenes:
It is possible to:
- Create lighting scenes for different occasions.
- Manage several fixtures with just one touch to create the perfect atmosphere for specific needs.
- Use the same fixture in different scenes.

Tunable control:
Casambi provides complete colour temperature control for those permitted in the range for LED sources. Just swipe your finger over the icon for the source to change the colour temperature.

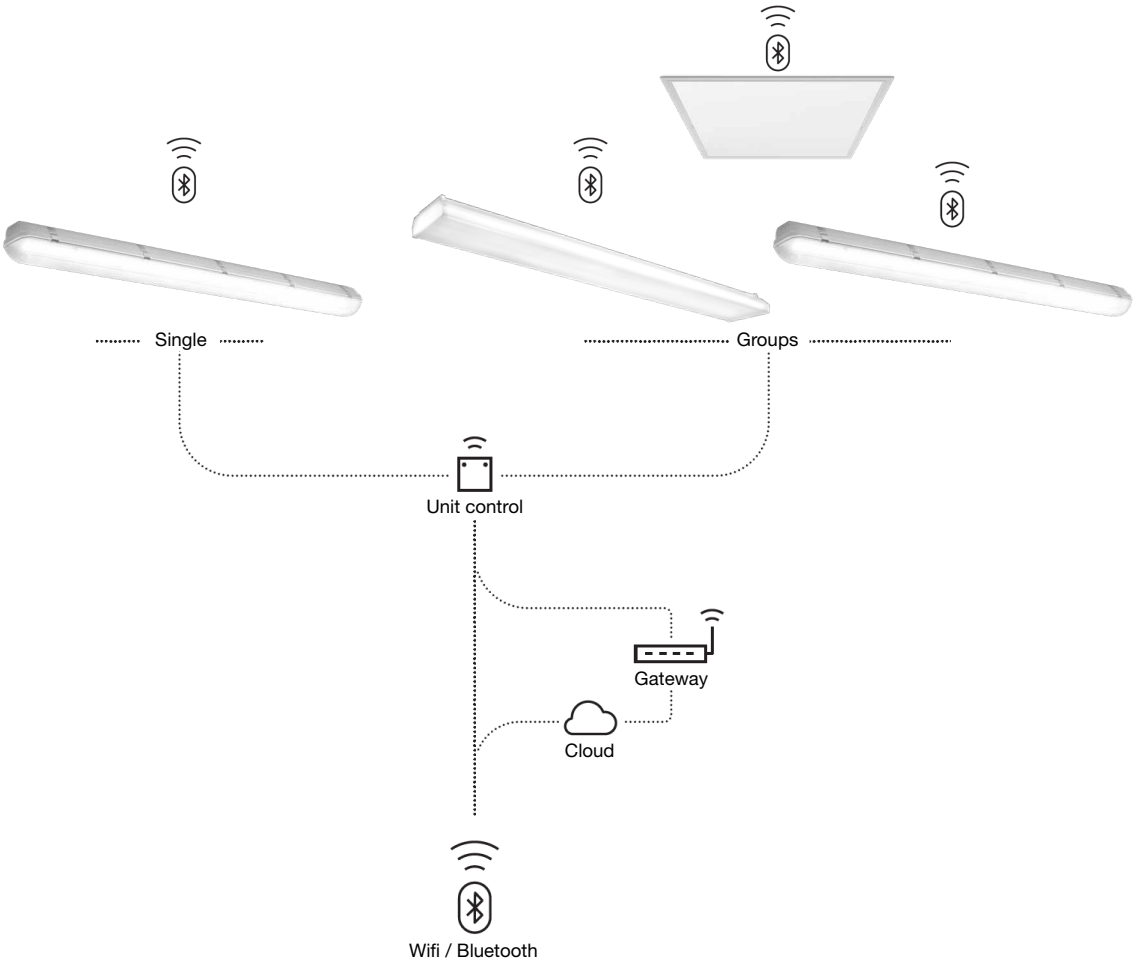
Animation:
It is possible to create dynamic scenes with fades from scene to scene. Animated scenes can be recalled again or repeated as required. It is possible to set both the duration of each scene and fade times between scenes.

Gallery:
The exclusive gallery function makes control intuitive. Taking a photo of an environment or uploading a floor plan on the app it is possible to mark the fixtures and then recall them. Images are saved in a special gallery on the app with the fixtures displayed. Users only have to touch the ones they want to manage.

Gateway:
With the gateway function it is possible to access a Casambi network remotely. Casambi enabled fixtures can be managed and network settings (administration rights required) can be changed. To enable the remote access feature, an iOS or Android device must act as a gateway on the Casambi network.

Adaptable:
The Casambi system is adaptable to both simple as well as more complex projects. It is based on the possibility to create an unlimited number of networks that can be turned on and off.

Calendar:
With the calendar and timer function it is possible to activate and deactivate scenes and animated scenes based on parameters such as: timetables, weekly scheduling, seasonality etc. This makes it possible to meet the needs of different users and the environments to be lit. All Casambi units keep track of time.





INSTALLATION SEQUENCE

1

Choose 3F Filippi fixtures by opting for the 3F Filippi Casambi Ready package or Casambi accessory components.

2

Download the Casambi iOS or Android App depending on the device used.

3

Launch the App: the fixtures in operation will be detected automatically.

4

Create one or two networks depending on the characteristics of the environment.

5

Create groups of devices as needed.

6

Program scenes and/or sequences.

7

Set the level of network sharing.

3F & Casambi | Accessories



IP20

Code	Item
1T5349 NEW	CASAMBI DALI CONTROL UNIT IP20

IP20 wireless control unit with DALI interface. It generates a local DALI-2 bus, enhabling a direct connection to a DALI interface LED driver. The module can only be used in a closed system and must not be connected to an existing DALI network. The module is wireless controlled using a Casambi app for smartphones and tablets using Bluetooth 4.0 technology. The devices automatically create an adaptive, robust, and reliable wireless mesh network, allowing for the easy and efficient management of a high number of fixtures. The control unit is preset to the DALI 1CH profile, maning the device can control a single DALI driver with broadcast commands. In addition to the DALI broadcast, other operating modes are available, such as:

- Button (normally open)
- Control unit 0/1-10V
- Control unit DALI Tunable White DT8
- Presence sensor



IP20

Code	Item
2T0131 NEW	CASAMBI EXTENDER IP20 V.2

IP20 Extender for wireless control of LED driver with dimming DALI (or 1-10V) interface based on Casambi technology. It has a DALI-2 output with the capacity to control up to 40 lighting fixtures. With the addition of a further external BUS DALI power supply it is possible to control up to 64 fixtures. IP20 Extender is preset to the DALI broadcast profile, meaning all the luminaires connected to it are dimmable at the same level. In addition to the DALI broadcast other operating modes are available, such as:

- EXTENDER DALI 8CH
- EXTENDER DALI Tunable White
- EXTENDER 0/1-10V
- EXTENDER DALI 4CH
- EXTENDER DALI DT8 Tunable White



IP67

Code	Item
1E4369 NEW	CASAMBI EXTENDER IP67 V.2

IP67 Extender for wireless control of LED driver with dimming DALI (or 1-10V) interface based on Casambi technology. It has a DALI-2 output with the capacity to control up to 40 lighting fixtures. With the addition of a further external BUS DALI power supply it is possible to control up to 64 fixtures. IP67 Extender is preset to the DALI broadcast profile, meaning all the luminaires connected to it are dimmable at the same level. In addition to the DALI broadcast other operating modes are available, such as:

- EXTENDER DALI 8CH
- EXTENDER DALI Tunable White
- EXTENDER 0/1-10V
- EXTENDER DALI 4CH
- EXTENDER DALI DT8 Tunable White



IP67

Code	Item
1E3048 NEW	CASAMBI DALI CONTROL UNIT IP67

IP67 wireless control unit with DALI interface. It generates a local DALI-2 bus, enhabling a direct connection to a DALI interface LED driver. The module can only be used in a closed system and must not be connected to an existing DALI network. The module is wireless controlled using a Casambi app for smartphones and tablets using Bluetooth 4.0 technology. The devices automatically create an adaptive, robust, and reliable wireless mesh network, allowing for the easy and efficient management of a high number of fixtures. The control unit is preset to the DALI 1CH profile, maning the device can control a single DALI driver with broadcast commands. In addition to the DALI broadcast, other operating modes are available, such as:

- Button (normally open)
- Control unit 0/1-10V
- Control unit DALI Tunable White DT8
- Presence sensor



Code	Item
1T5351 NEW	CASAMBI PHASE CUT CONTROL UNIT IP20

A Wireless Trailing Edge / IGBT dimmer managed using Bluetooth 4.0 technology. It works with LED 230V-AC modules, dimmable LED sources and halogen lamps. It can be installed inside a standard 503 wall switch box, lighting fixtures or ceiling canopies. It can manage systems with a maximum absorption of 150W. The module is wireless controlled using a Casambi app for smartphones and tablets or traditional wall switches. IP20.

CE IP20



Code	Item
1T7944 NEW	CASAMBI DIMMER BLUETOOTH 24V PWM

Wireless Bluetooth Dimmer capable of handling constant voltage loads of 12V or 24V subdivided into 4 channels with PWM output. This dimmer must be connected between the 12V or 24V power supply and the constant voltage LED module. The maximum total current that can be supplied by the control unit is 6A (equivalent to a total of 144W) that can be divided between the 4 outputs. IP20.

CE IP20



Code	Item
1T8173CA NEW	BRIDGE DALI/CASAMBI

Bridge DALI/Casambi: a fixture that allows fixtures equipped with mesh Bluetooth Casambi to interface with a traditional DALI system and to be adjusted by a DALI control unit. Inside the usual DALI circuit it is possible to have a maximum of 64 cabled DALI and Casambi wireless devices. It only works with Casambi Evolution networks. The DALI Bridge is transparent in the DALI system, and therefore does not require an address. There is no need for a power supply given that it is supplied directly by the DALI bus.

CE



Code	Item
1T5350 NEW	CASAMBI WALL SWITCH XPRESS BLK
2T0132 NEW	CASAMBI WALL SWITCH XPRESS WHT

Xpress is a wall mounted wireless user interface; it can be installed wherever the user chooses thanks to battery power with autonomy of 2-3 years providing direct access to all the most important Casambi system control functions. As well as switching the fixtures on and off, Xpress controls dimming, colour temperature change in fixtures equipped with this technology, and control of individual fixtures and lighting scenes or sequence management.

CE

/ 3F & KNX
Building automation



BUILDING management.

CHARACTERISTICS

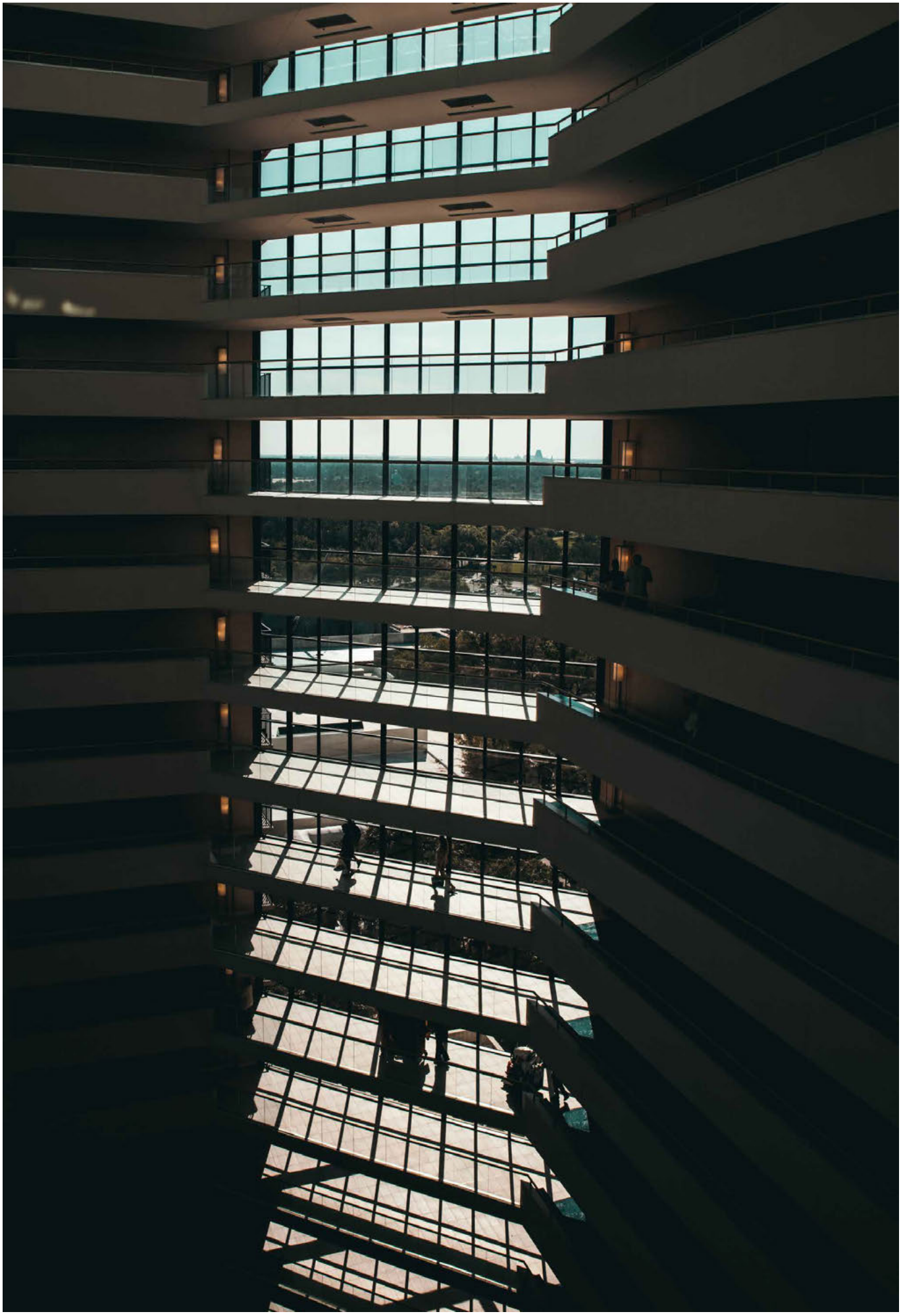
KNX is a worldwide open standard which meets the most important European and international standards and offers automated and decentralised management of technological systems for: commercial, industrial, public and office buildings, schools and many other structures besides.

KNX can be used in all applications and for control functions in buildings: from lighting to blinds, security, HVAC supervision, control of plumbing and alarms, energy management, electricity meters, domestic appliances, audio systems etc.

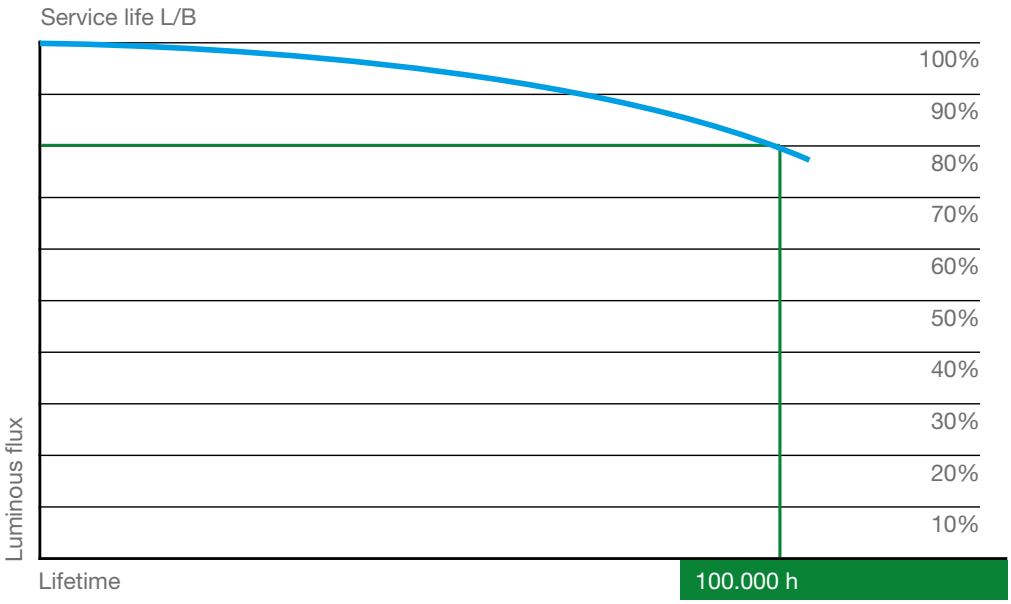
KNX improves comfort and security, as well as providing a strong contribution to energy savings (up to 50% for lighting and heating management) and to reducing environmental impact.
The KNX system can be used both in new and existing buildings.

KNX installations can be easily expanded and adapted to meet new requirements, quickly and with minimal financial investment (for example when new tenants enter a commercial building).

3F Filippi really believes in this standard, and it is for this reason that we offer a range of luminaires equipped with DALI ballasts which are able to interface with KNX systems seamlessly: the connection between the network and the luminaire occurs via gateways which allow information and commands to be transmitted via the LAN network.



/ 3F CLO



TIME passes. Light remains.

INTRODUCTION
The initial luminous flux of light sources diminishes gradually over time.
The percentage of decay of the luminous output referred to the hours of useful operation (50,000 hours) is determined with the parameter “L”. LED sources classified as L85 (*) when they reach 50,000 hours will supply 85% of the initial output.

The task of the lighting designer is to look at all possible systems that can achieve energy savings for the final customer.

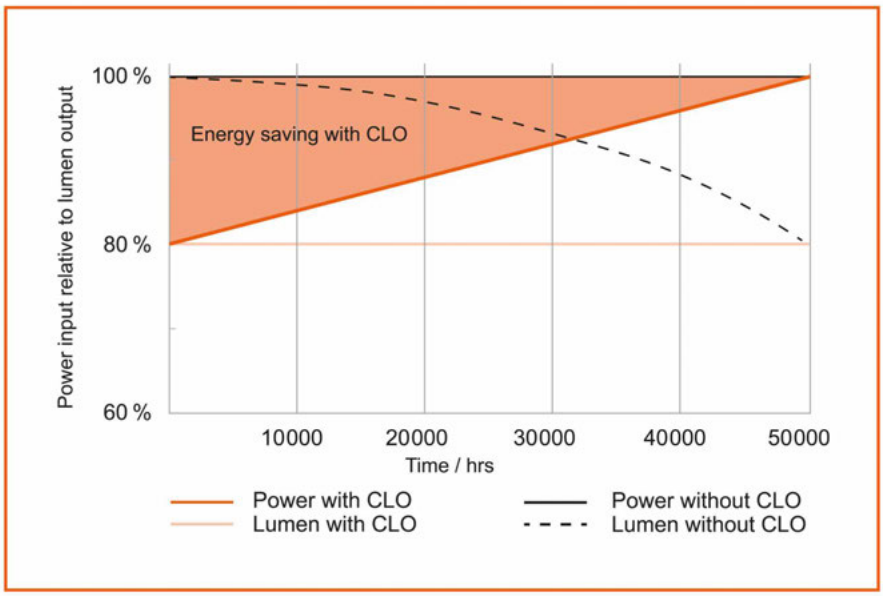
3F Filippi has always worked alongside professionals in the industry to find and transmit knowledge for a greener future.

WHAT IS CLO
CLO is the acronym of Constant Light Output which is a function of the most evolved drivers to allow fixtures to emit constant output, following natural decay of LED source due to ageing.

Fixtures equipped with this function initially emit, and subsequently in a constant way, a luminous output decreased by 15% in consideration of the decay of the light.

At the same time the fixture has a reduced initial energy consumption (on average 15%) and an increasing regular consumption until it reaches the declared 100%.
The datasheets of fixtures equipped with this technology will show the initial Power and the final Power (for normal size electrical system).

Note:
(*) data extrapolated from LM-80 (IES - Illuminating Engineering Society of North America) tests, performed as per standards after 6,000 hours of operation and calculated on the basis of the IESNA TM-21-11 guideline “Projecting Long Term Lumen Maintenance of LED Light Sources”.



THE ADVANTAGES OF CLO

- **Constant L100 luminous output for the entire life of the fixture**.

Thanks to this technology adopted by 3F Filippi, it is no longer necessary to oversize from the first day of use the lighting system (on average 15%) as was done in the past, with an unprovoked energy expenditure.
This makes it possible to design lighting projects with K=1.00 maintenance factors, given that the fixture considers this integrated decay factor right from the first time it is turned on.

- **Energy savings**

The drivers are designed in the Company to feed the LED sources initially at reduced power to then increase gradually over time.
Using the CLO function the energy savings that can be achieved over the life of the fixture is around 10% without any manual or system maintenance. You save simply without realising it.

CLO AND LIGHTING DESIGN

The light fixtures will be constant throughout their entire life.
Drivers with the CLO function are able to compensate for the decay in luminous output of the LED sources and avoid output peaks/ excess power at the beginning of the installation while maintaining the required luminance values constant over time.
Energy consumption will increase over time to reach maximum consumption which would normally occur when first turned on, only after 100,000 operating hours.

Lighting levels required by regulations are ensured from the first to the last day without wasting any energy.
If you require more information, do not hesitate to contact our Sales Network or our Technical Offices.

/ 3F Wireless ZQ







Wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee compatible multisensor.

WIRELESS lighting systems.

3F Filippi fixtures with wireless ZQ technology are equipped with 2.4 GHz **Wireless Mesh Network devices with dual Bluetooth LE/Zigbee 3.0 technology**, which simultaneously allows the connection of mobile devices via Bluetooth LE and the interconnetion of the system nodes thanks to the standard Zigbee protocol 3.0, enabling them to integrate with the entire ecosystem of compatible products, such as home assistants and other devices for home and building automation.

Each device in the Zigbee 3.0 network receives, regenerates and sends the signal again to the subsequent nodes, thus creating a wireless **Mesh Network**.

BENEFITS

3F Wireless ZQ technology is particularly suitable for the retrofit of existing systems without a regulation system.

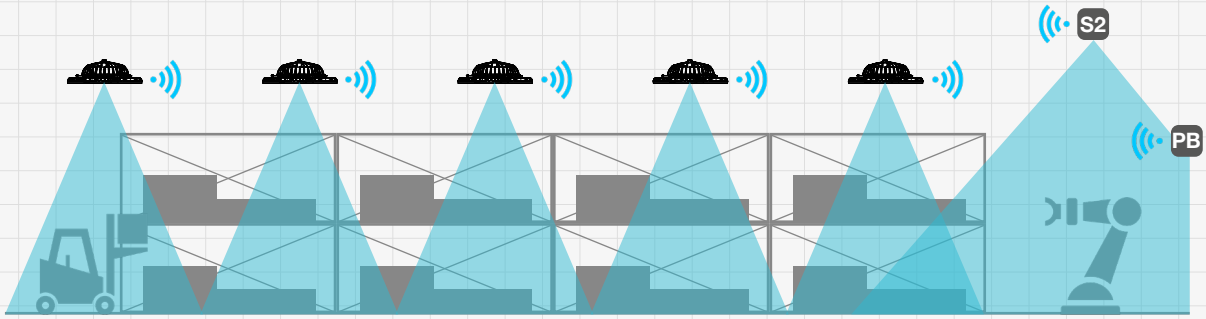
- **IoT Ready**: devices (sensors or nodes) integrated into the luminaires allow the creation of intelligent systems without having to make changes to the existing electrical system (for example the addition of the DALI backbone).
- **Mesh Network**: communication between the devices of the 3F Wireless ZQ system occurs via radio frequency signals with Mesh Network technology (extremely robust and encrypted) which allows the creation of very large systems, overcoming the “limits“ of wired DALI systems.
- **Energy saving**: up to 80% thanks to the automation system.
- **Plug&play**: configurable via App by non-specialised personnel, significantly reducing commissioning times and commision costs.
- **Consumption monitoring**: measurement of energy consumption, also MID certified.
- **Emergency**: centralised diagnostics of the emergency system.
- **Flexibility**: the system can be used in both simple and more complex projects.
- **Cloud Lighting**: devices management on a local network or via Cloud.

Stand-Alone systems

Devices, sensors and contol modules, wired together or wireless connected are configured via App or other simple and intuitive application. Once the setup is completed, the various portions of the system work independently without interacting each other. This architecture allows you to optimise construction and configuration costs of the system.
The control system requires initial programming and commissioning. This service can be carried out directly by the installer/ end customer via the free APP available for Android and iOS. On request we can offer a telephone support service for training the installer or for on-site intervention by a specialist technician.

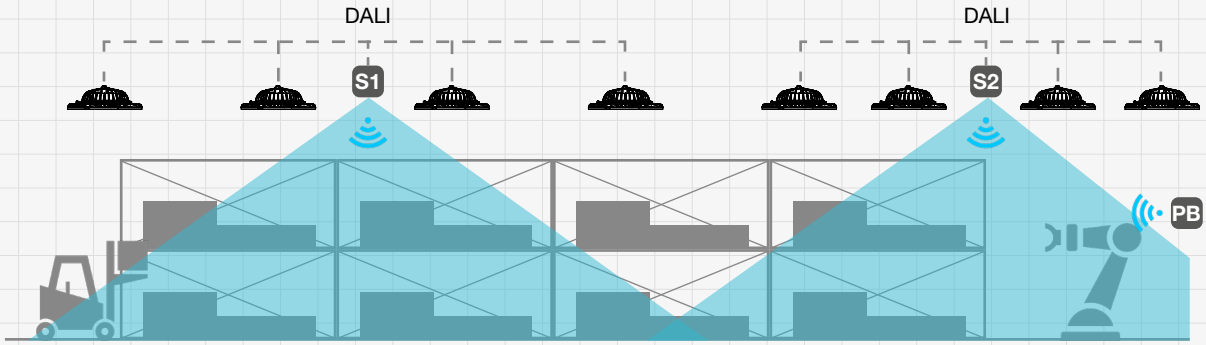
Entirely WIRELESS system

Each device can be equipped with a presence and brightness sensor ensuring complete and total flexibility. During the commisioning phase, via the Light360 app, it will be possible to define the automatisms (groups, scenes, etc.) and the operating logicsof each individual sensor, for example: presence and brightness, brightness only, transmission node only, etc. The system can be integrated by adding stand alone sensors (S2) or manual buttons via the appropriate interface (PB).



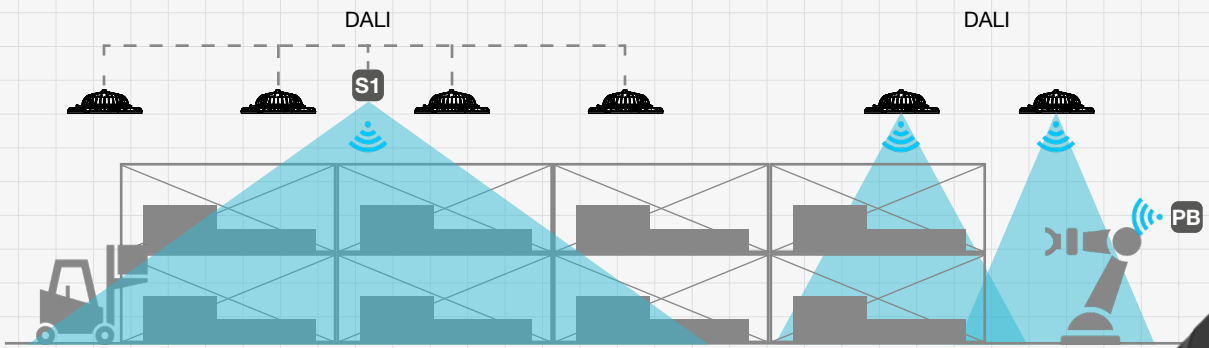
HYBRID system (wireless/wired)

It is possible to optimise construction costs by creating hybrid systems (wireless/wired). Presence and brightness sensors can be installed in the room and control a more or less large group of devices via cable, up to a maximum of 32 drivers. During the commissioning phase, via the Light360 app, it will be possible to define the group operating logics. The system can be integrated, at your discretion, possibly adding stand alone sensors (S2) or manual buttons via the appropriate interface (PB).



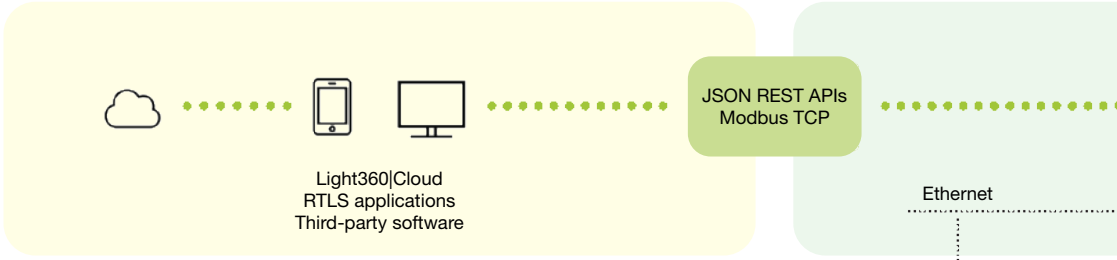
MIXED system

The entirely wireless system and the hybrid system can coexist in the same system/area, maximising the functionality and exploiting the advantages of each individual system.

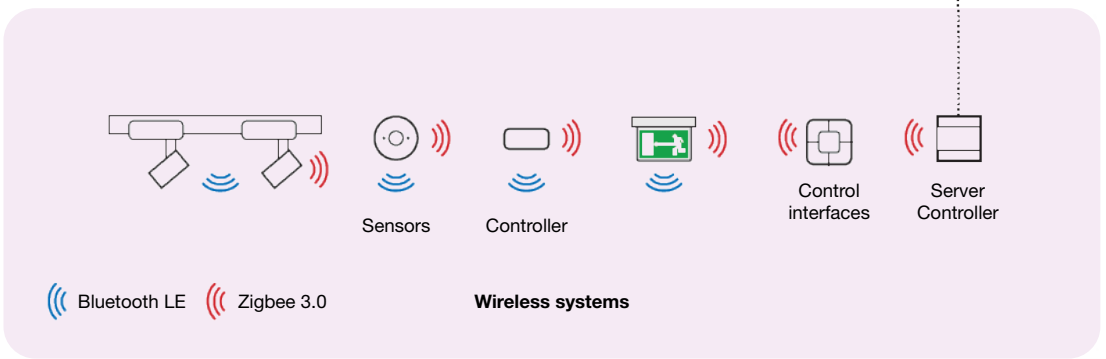


/ 3F Wireless ZQ

Servers and software applications
for the implementation of integrated and centralised systems



Luminaires, controllers and sensors
for the implementation of Stand Alone systems



Configuration App
of ZQ wireless systems



RTLS Applications
for Bluetooth LE tags and beacons

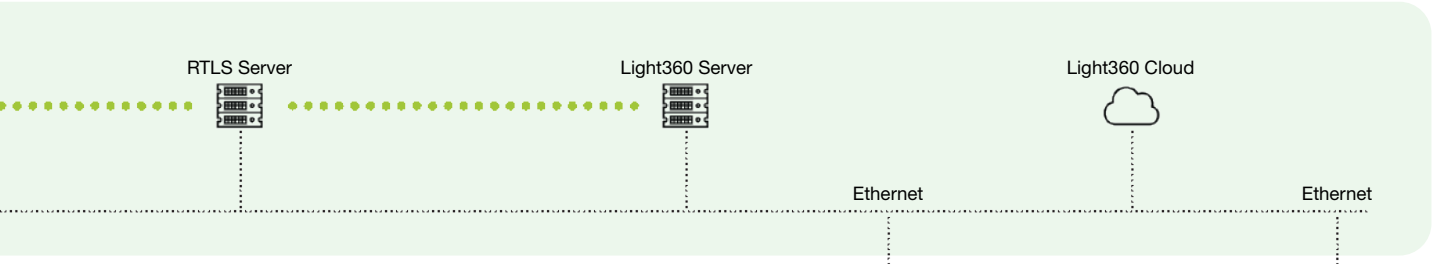


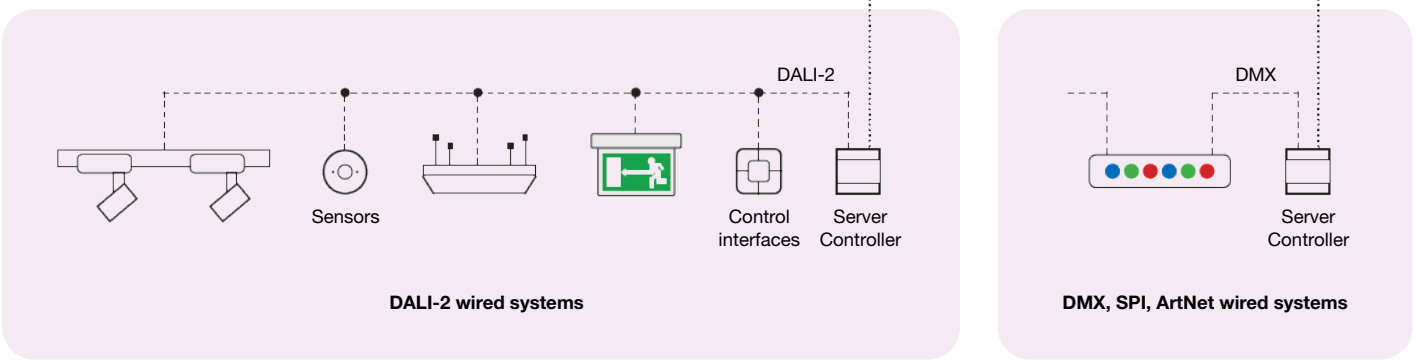
CENTRALISED SYSTEM

The system in Stand Alone mode can be centralised via Ethernet network, in order to obtain synergistic management and supervision via local software applications (on-premises) or in the Cloud.

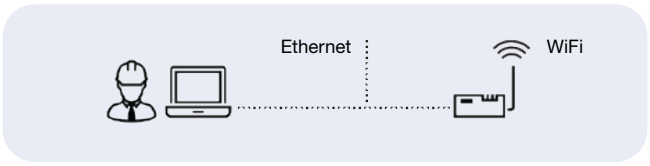
This architecture also allows integration with other Building Automation systems and third-party software applications.

- Energy saving
- Luminous scenography
- Colour management
- Diagnostics of the emergency system
- Supervision and remote maintenance





Configuration Applications
of ZQ wireless systems



CLOUD SUPERVISION

Light360 Cloud is the software that allows you to manage and control the status of the appliances in accordance with the EN50172 standard, obatining a mapping of the space covered by appliances, a diagram of the overheating statuis and an overview of the position of the assets included in the system.
Characteristics:

- Multi-site and multi-user systems
- Custom maps, charts and widgets
- Remote maintenance and diagnostics
- Emergency lighting management
- Energy consumption management

This provides the following advantages:

- Centralised systems management
- Reduction of maintenance costs, especially in case of emergency
- Verification of energy consumption and savings
- IoT sensors
- Check of space occupancy
- Tracking of assets and personnel via RTLS applications
- Integration with other Building Automation systems



Lanes — **80%** energy saving



Warehouses — **65%** energy saving

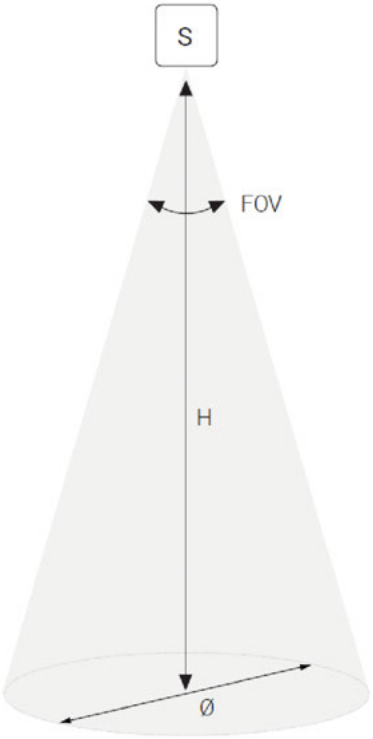


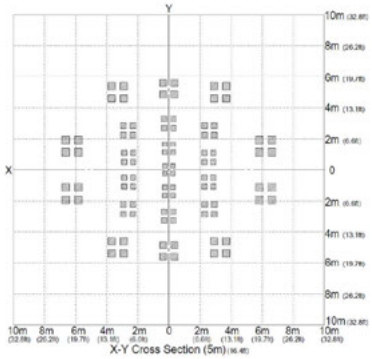
Production areas — **45%** energy saving

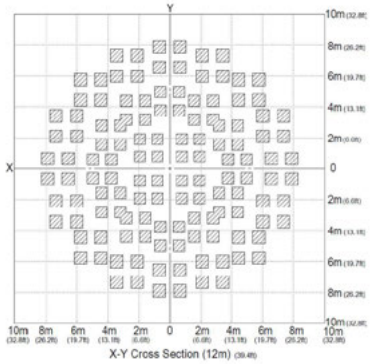
/ 3F Wireless ZQ

Detection field SENSEZQ Industry IP65 - built-in

H	A3102 SENSEZQ-10m built-in **MB ø** FOV 108°	A3106 SENSEZQ-17m built-in **HB ø** FOV 62°
3 m	8,3 m	3,6 m
4 m	11,0 m	4,8 m
5 m	13,8 m	6,0 m
6 m	16,5 m	7,2 m
7 m	19,3 m	8,4 m
8 m	22,0 m	9,6 m
9 m	24,8 m	10,8 m
10 m	27,5 m	12,0 m
11 m		13,2 m
12 m		14,4 m
13 m		15,6 m
14 m		16,8 m
15 m		18,0 m
16 m		19,2 m
17 m		20,4 m

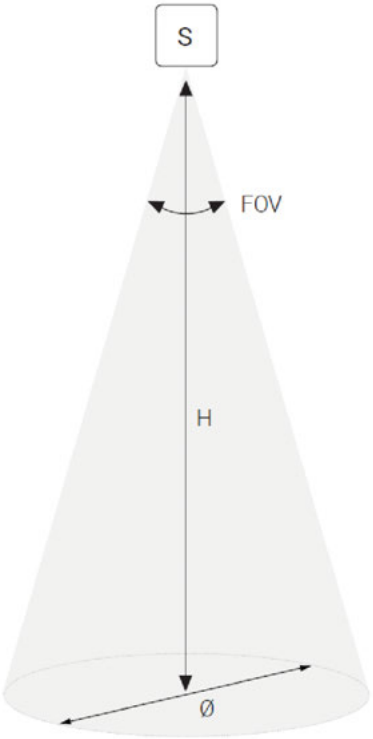


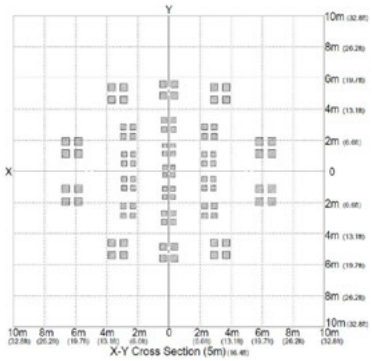


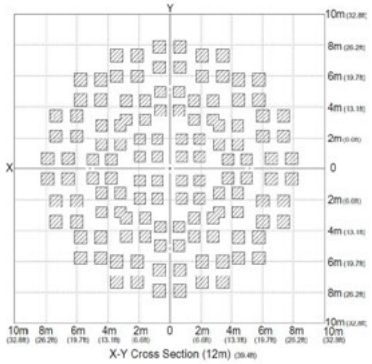


Detection field SENSEZQ Industry IP65 - outside the luminaire

H	A3107 SENSEZQ-10m built-in **MB ø** FOV 108°	A3108 SENSEZQ-17m built-in **HB ø** FOV 62°
3 m	8,3 m	3,6 m
4 m	11,0 m	4,8 m
5 m	13,8 m	6,0 m
6 m	16,5 m	7,2 m
7 m	19,3 m	8,4 m
8 m	22,0 m	9,6 m
9 m	24,8 m	10,8 m
10 m	27,5 m	12,0 m
11 m		13,2 m
12 m		14,4 m
13 m		15,6 m
14 m		16,8 m
15 m		18,0 m
16 m		19,2 m
17 m		20,4 m

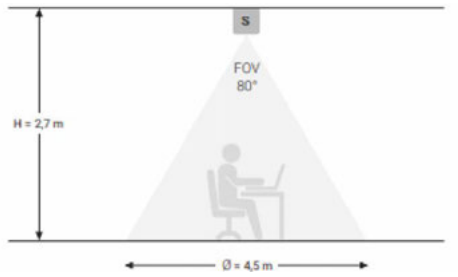




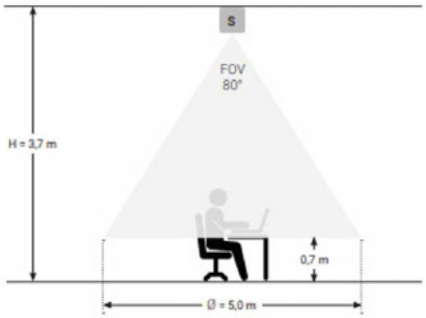


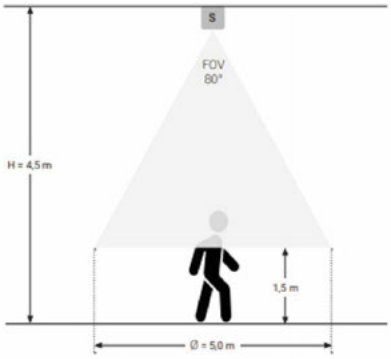
Detection field SENSEZQ Office IP20 - built-in

H	**A3113 SENSEZQ-5m built-in IP20** **ø** FOV 80°
2,7 m	4,5 m
3 m	5,0 m
3,7 m	5,0 m
4,5 m	5,0 m



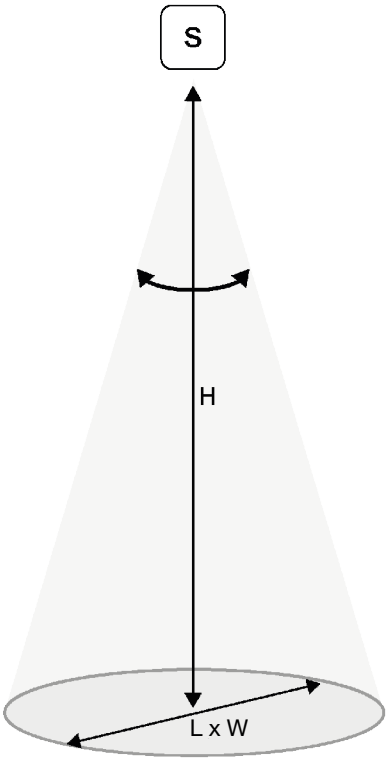






Detection field SENSEZQ Office IP20 - outside the luminaire

H	**A3109 SENSEZQ-5m IP20** **L x W** FOV 82° x 94°
2,5 m	4,3 x 5,4 m
2,7 m	4,7 x 5,8 m
3 m	5,2 x 6,4 m
4 m	7,0 x 8,6 m
5 m	8,7 x 10,7 m



3F Wireless ZQ | Accessories



Code	Item
A3103 NEW	NODEZQ-4 IP20

NODEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee controller, installation outside the indoor luminaire. It controls up to 4 standard DALI and/or D4i drivers in regulation. Integrated antenna. Autosensing supply from 230Vac or from DALI line according to DALI-2 D4i specifications. I/O connector for external sensor.

CE IP20



Code	Item
A3104 NEW	NODEZQ-32 IP20

NODEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee controller, installation outside the indoor luminaire. It controls up to 32 standard DALI drivers in regulation. Integrated antenna. Autosensing supply from 230Vac. I/O connector for external sensor.

CE IP20



Code	Item
A3105 NEW	NODEZQ-4 Zhaga IP66

NODEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee controller, installation incorporated into the outdoor luminaire. It controls up to 4 standard DALI drivers in regulation. Integrated antenna. Zhaga Book 18. Autosensing supply from 24Vdc or from DALI line according to DALI-2 D4i specifications.

CE IP66



Code	Item
A3102 NEW	SENSEMBZQ-10m built-in IP65
A3106 NEW	SENSEHBZQ-17m built-in IP65

SENSEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee presence and brightness multisensor, installation incorporated into the indoor luminaire. It controls up to 4 standard DALI and/or D4i drivers in regulation. Integrated antenna. Maximum installation height 10 m FOV 108° (cod. A3102) and 17 m - FOV 62° (cod. A3106). Autosensing supply from 12..15Vdc or from DALI line according to DALI-2 D4i specifications.

CE IP65



Code	Item
A3107 NEW	SENSEZQ-10m IP52
A3108 NEW	SENSEZQ-17m IP52

SENSEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee presence and brightness multisensor, installation outside the luminaire. It controls up to 32 standard DALI and/or D4i drivers in regulation. Integrated antenna. Maximum installation height 10 m FOV 108° (cod. A3107) and 17 m - FOV 62° (cod. A3108). 5A relay. Power supply 230Vac.

CE IP52



Code	Item
A3109 NEW	SENSEZQ-5m IP20

SENSEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee presence and brightness multisensor, installation outside the luminaire. It controls up to 32 standard DALI drivers in broadcast or addressed mode. Integrated antenna. Maximum installation height 5 m FOV 106°. Power supply 230Vac.

CE IP20



Code	Item
A3113 NEW	SENSEZQ-5m built-in IP20

SENSEZQ wireless Mesh Network 2.4 GHz Bluetooth LE/Zigbee presence and brightness multisensor, installation incorporated into the indoor luminaire. It controls up to 4 standard DALI and/or D4i drivers in regulation. Integrated antenna. Maximum installation height 5 m FOV 80°. Autosensing supply from 12..15Vdc or from DALI line according to DALI-2 D4i specifications.

CE IP20



Code	Item
A3110 NEW	ZQ buttons interface

Mesh Network 2.4 GHz Bluetooth LE/Zigbee 3.0 wireless buttons interface. It controls 4 configurable digital inputs for standard push-buttons and switches. Integrated antenna. Power supply 230Vac.

CE IP20



Code	Item
A3111 NEW	ZQ Ethernet Gateway

Ethernet gateway for 2.4 GHz Zigbee/Bluetooth wireless nodes. RTC and integrated antenna. PoE supply or 12-24Vdc.

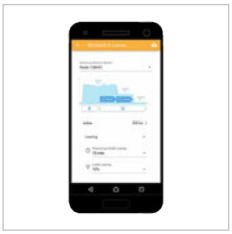
CE IP20



Code	Item
A3112 NEW	ZQ control unit

Control unit for ZQ system management. Ethernet Interfaces, RS232, RS485, USB, I/O. Integrated LTE modem (SIM not included). Astronomical Clock (RTC). Integrated web server and xSETUP application for system configuration. Power supply 10-30Vdc. DIN 6-module box.

CE IP20



Free app for configuration of ZQ devices, available for Apple (iOS) and Android smartphones and tablets. Light360|Setup allows the installation to be split into groups of luminaires and sensors and to set control logics and operating parameters (reference light levels for constant light control, timeout for motion sensor power-off, etc.).



Web-based application for control of installations via Touch Panel. Single Touch device licence.



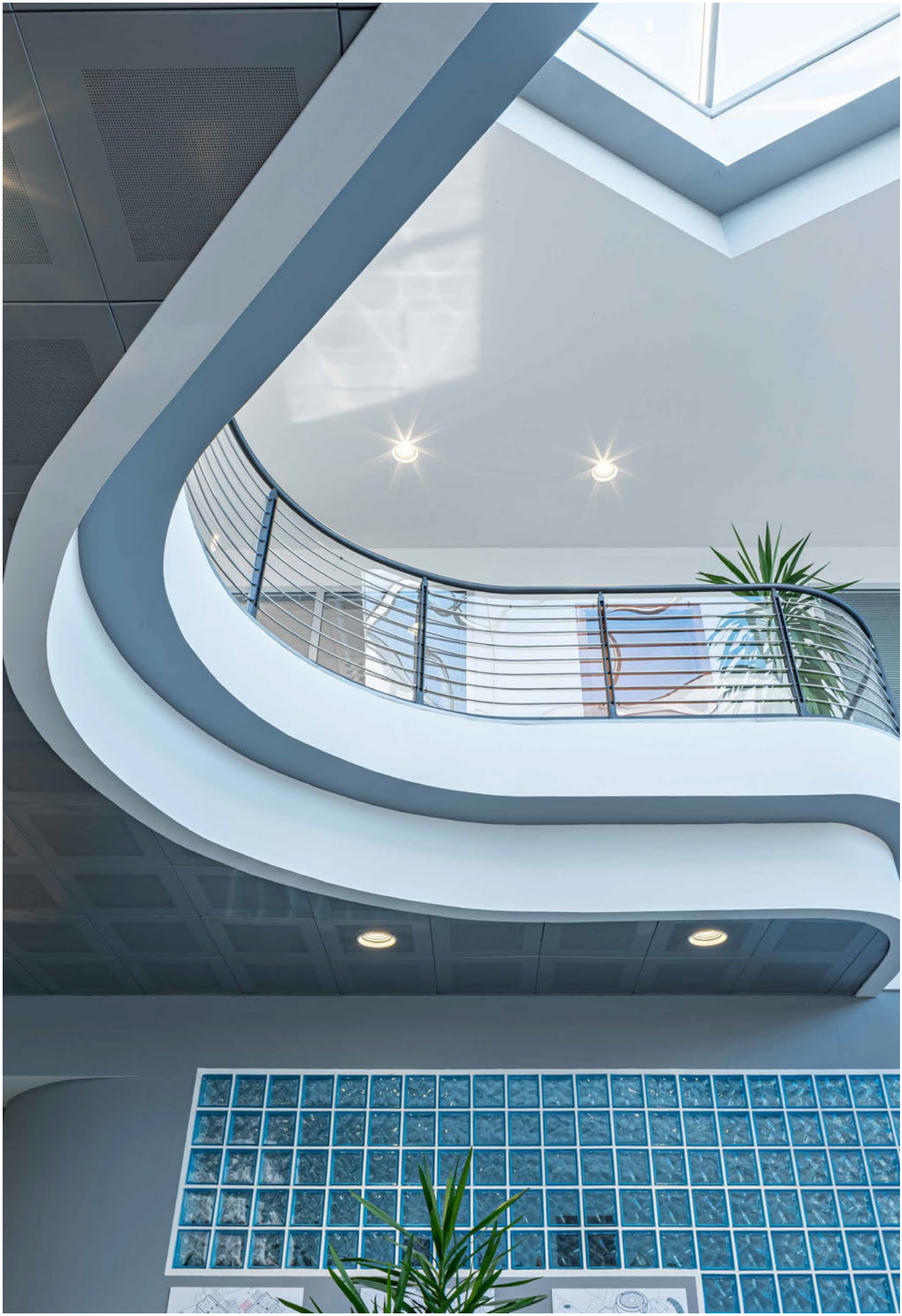
On-premises and cloud software application for centralised control and supervision of lighting installations.



/ Get the best
from 3F Filippi

How to use our products correctly.

- 3F Filippi can only guarantee products exclusively when they are installed according to the installation instructions provided with the luminaires. We therefore recommend you do not install our products in any other way than those indicated. In the event that you have differing requirements, please contact our Sales Network or the 3F Filippi Headquarters to request a technical assessment.
- As with installation, maintenance of 3F Filippi products must also be performed according to the instructions: we therefore recommend keeping these safe so that you can consult them before performing any kind of work on the luminaire.
- 3F Filippi products must only be installed on supports which are not subject to vibrations and mechanical stress – this is critical for their correct operation. In the event that it is not possible to avoid this kind of installation, you are invited to contact our Sales Network or the 3F Filippi Headquarters to request a technical assessment.
- Turning on a luminaire leads to an environmental “load” which is often not justified. Despite 3F Filippi’s commitment to offering our customers the best energy-saving systems, using lighting only when strictly necessary is still the best way to save money and respect the environment.
- Correct and sensible lighting design can help save more money than you might think: 3F Filippi recommends that lighting projects are carried out by professional, reliable designers who can recommend the best solutions both for you and the environment. Lighting should only be used when necessary.
- 3F Filippi strongly believe in reusing raw materials, and for this reason we are constantly optimising our products to make them more environmentally-friendly. For example, we use a high percentage of recycled board in our packaging, and our luminaires are all produced in a single plant powered by solar panels: these simple measures allow us to limit transport and optimise resources. 3F Filippi invites users to do the same by recycling packaging after installation and correctly disposing of luminaires at the end of their life-cycle.



/ Analytical guide

General **CONDITIONS** of sale.

The acceptance of orders is always subject to the following conditions:

- The delivery terms are not binding and due to force majeure, they can be changed at any time without recognizing any damage or requests for penalties.
- Goods are delivered ex-works.
- Samples are always supplied carriage forward and invoiced.
- Goods travel at the customer's risk with any means of shipment, both carriage forward and carriage paid.
- The purchaser may not demand the partial or total cancellation of orders nor indemnification for delays and reductions of supply caused by force majeure.
- The prices in this price list can be changed without prior notice and obligation of prior communication.
- Payments will be valid if made directly to our headquarters.
- VAT is payable by the customer.
- The Court in whose district the seller has its headquarters will have exclusive jurisdiction in the event of any and all disputes.

Articles on request

Articles marked **On Request** are not normally in our warehouse. Where not specified, delivery dates and prices are to be arranged from time to time based on quantity, production availability, and material procurement times.

Because we are constantly improving our products, the luminaires supplied may differ in details, dimensions, equipment, and accessories from the dimensions and illustrations shown in this catalogue. Therefore, quantities, volumes, and indicated weights are not binding.

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
A0052	Wall-mounting brack	1		14.500	45, 65, 88, 113, 117, 331
A0090	Bracket/5-pole terminal block	1		10.000	121
A0160	Inox clips 3F Linda L660 -4pcs	1		7.000	506
A0161	Inox clips 3F Linda L1270 -8pcs	1		8.750	506
A0162	Inox clips 3F Linda L1570 -10pcs	1		9.500	506
A0170	15BS Brackets - L320-L400-L560	1		24.600	185, 223
A0173	15HI Brackets - L320-L350-L450	1		17.250	185, 209, 219
A0174	15DP Brackets - L560	1		29.000	223
A0175	15GF Brackets - L560	1		30.000	223
A0176	15XB Brackets - L560	1		22.500	223
A0177	15ZH Brackets - L320-L350-L560	1		23.000	185, 209, 219, 223
A0179	15LB Brackets - L320-350 met.pan.	1		18.000	186, 209
A0187	Anti-condensation cable gland	1		1.000	233, 238, 507, 579
A0189	Reinf. brack. Lucequadro pan./plast.	1		9.600	270
A0210	Wireguard 3F Cub	1		5.445	584
A0213	Ceiling-mounted bracket	1		8.850	584
A0242	15SS galvanized steel cable coil 100m	1		2.570	411, 544
A0243	15BF galvanized steel cable coil 500m	1		8.700	411, 544
A0305	Pair of suspension brackets	1		10.500	452
A0324	Pair fixed brack. for ceiling Beta 235	1		25.500	571
A0325	Mounting kit on busbar - Beta 235	1		3.500	572
A0434	Safety screw locking Linda - 20 pcs	1		0.320	507
A0435	Safety screw locking Linda - 100 pcs	1		16.000	507
A0439	Pole mounting diameter 60mm	1		1.360	621
A0440	Pole mounting diameter 76mm	1		1.080	621
A0441	Reducer from 76 mm to 60 mm	1		1.210	621
A0447	3F Linda through-line L1570	1		8.750	507
A0449	15 GZI w/brack.+ hooks Linda L300	1		2.600	506
A0450	15 RIT w/bra.+hooks Linda L660-1270-1570	1		2.500	506
A0451	15 MBI w/brack.+ hooks Linda L300	1		4.920	506
A0452	15 FBR w/bra.+hooks Linda L660-1270-1570	1		4.900	506
A0455	Wireguard 180x1330 3F Linda	1		3.235	45, 506
A0456	Wireguard 180x1630 3F Linda	1		3.535	45, 506
A0457	Wireguard 280x1330 3F Linda/3F Beta	1		3.720	506, 571, 579
A0458	Wireguard 280x1630 3F Linda/3F Beta	1		4.125	506, 571, 579
A0462	13 GSI (pair of susp. hooks Linda L300)	1		3.000	506
A0463	13 TRM pair of susp.hooks Linda	1		3.050	506
A0464	26 CSG (pictogram P1 Linda L300)	1		1.500	507
A0465	26 MTH (pictogram P1 Linda L660)	1		2.500	507
A0466	26 DVI (pictogram P2 Linda L300)	1		1.500	507
A0467	26 MVL (pictogram P2 Linda L660)	1		3.000	507
A0468	26 GZM (pictogram P3 Linda L300)	1		1.000	507
A0469	26 PXN (pictogram P3 Linda L660)	1		2.500	507
A0477	Safety wire	1		4.375	177, 185, 209, 233, 238, 265
A0490	Connection to the earth	1		5.000	335
A0500	13 DH pair susp.galv.steel hooks i3F	1		22.000	579
A0501	13 HC pair susp.stain.steel hooks A3F	1		22.000	579
A0503	15 CD pair of bracket/hooks A3F	1		29.000	579
A0508	20 TKA (casc. conn. line i3F/A3F 1265)	1		10.000	579
A0509	20 ZFE (casc. conn. line i3F/A3F 1565)	1		10.000	579
A0521	Reducing sealing ring diam.8mm	1		80.000	233, 238, 462, 507 544, 571, 579, 584, 595
A0537	Pair of flush ceiling mounting brackets	1		7.785	233, 238
A0579	Safety wire with brackets	1		6.250	137, 146, 205, 233, 238
A0620	Spool stain.ste.cab.diam. 1,25mm 100 m	1		1.015	66
A0622	Clamp 1 hole suspension - 100 pcs	1		0.355	66
A0632	Pair of inclin. Ceiling brack. LEM/Rio L	1		1.750	410, 543
A0644	Pair of brackets ceiling Rio C	1		0.480	410
A0651	Pair of rot. brack. support LEM/Rio L	1		4.400	410, 543
A0652	Pair of ceiling brack. LEM/Rio L	1		2.100	410, 543
A0653	Pair of fixing carab.for chain instal.	1		1.000	544, 571, 579

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
A0654	Pair of wall brackets LEM /Rio L	1		2.530	410, 543
A0659	Adjustable clamp 2 holes - 10 pcs	1		0.395	88, 332
A0660	Suspension with adjustment - 1m	1		6.000	45, 87, 452, 506
A0661	Suspension with adjustment - 2 m	1		7.000	45, 87, 452, 506
A0662	Suspension with adjustment - 3 m	1		10.000	45, 87, 452, 506
A0663	Suspension with adjustment - 4 m	1		13.500	45, 87, 452, 506
A0664	Suspension with adjustment - 5 m	1		14.000	45, 87, 452, 506
A0665	Suspension with adjustment - 6 m	1		14.500	45, 87, 452, 506
A0679	5 pole rectangular rose (no cable) WH	1		1.600	45, 66, 88
A0686	596x596 Diagon frame ceiling instal.	1		3.170	177
A0702	Suction cup for Diagon maintenance	1		0.045	177
A0714	Clamp 2 holes susp.- 100 pcs	1		0.515	87, 332, 411, 544
A0716	Coil galv. cable diam. 1.5mm - 100m	1		1.175	87, 332
A0717	Coil galv. cable diam. 1.5mm - 500m	1		7.340	87, 332
A0718	Coil galv. cable diam. 1.5mm - 1000m	1		12.045	87, 332
A0720	Wieland (white plug)	1		5.000	185, 209
A0721	Wago (white plug)	1		5.000	185, 209
A0722	Ensto white plug + adapter	1		5.000	185, 209
A0725	Wieland (black plug)	1		5.000	185, 209
A0726	Wago (black plug)	1		5.000	185, 209
A0727	Ensto black plug + adapter	1		5.000	185, 209
A0728	Cover for food appl. 3F LEM 1	1		0.900	543
A0733	Cov.food appl.single mod.3F LEM(2-3-4-5)	1		0.940	543
A0776	Rotation brack. LEM 1-2/Rio 2L-S	1		1.015	410, 543
A0777	Rotation brack. LEM 2S-3/Rio 3L	1		1.600	410, 543
A0778	Rotation brack. LEM 4/Rio 3LS-4L	1		1.720	410, 543
A0779	Rotation brack. Rio 4LS	1		2.025	410
A0798	621x621 frame + brackets	1		1.650	146, 185, 205, 209, 233
A0801	Electric extension with 5P plug 3F Linux S	1		1.400	336
A0802	Electric extension with 3P plug 3F Linux S	1		1.600	336
A0804	SF 3F Reno 150	1		0.665	265
A0805	SF 3F Reno 200	1		0.755	265
A0806	SM 3F Reno 150	1		1.350	265
A0807	SM 3F Reno 200	1		1.350	265
A0811	Transparent glass with gasket (10pcs)	1		5.120	544
A0812	Moulded glass with gasket (10pcs)	1		5.095	544
A0835	Pair brack.+hooks for wall	1		26.000	452, 571
A0836	Pair of galv.hooks for susp.- Beta 235	1		8.500	571
A0837	Pair of stain.steel hooks susp.-Beta 235	1		10.000	571
A0838	Pair of S-hooks for chain - Beta 235	1		4.500	571
A0858	Bracket for central suspension L870	1		3.970	462
A0859	Bracket for central suspension L1230	1		2.900	462
A0860	Adjustable suspension kit 2m	1		1.800	462
A0861	Pair of brack. ceiling instal. Beta500	1		0.800	462
A0870	White conn. elem. with boss for lum.	1		4.200	65
A0872	White conn.elem. to wall w/boss for lum.	1		3.400	65
A0875	Connecting bracket Travetta	1		9.000	65
A0877	Bracket for T-branch for 3F Travetta	1		14.000	65
A0878	Bracket for X-branch for 3F Travetta	1		11.000	65
A0892	White connect.elem.190x190 3F Travetta	1		10.800	65
A0894	White connect.elem.190x210 3F Travetta	1		8.580	65
A0895	White connect.elem.190x510 3F Travetta	1		7.400	65
A0896	White connect.elem.190x810 3F Travetta	1		17.535	65
A0897	White connect.elem.190x1110 3F Travetta	1		23.660	65
A0941	White con.elem.lum/wall 810 3F Travetta	1		22.800	65
A0942	Wh.conn.elem.lum/wall 1110 3F Travetta	1		31.600	65
A0951	White branch elem. 190x310 3F Travetta	1		8.800	65
A0952	White branches elem. 190x460 3F Travetta	1		5.900	65
A3008	DALI ext - Repeater	1		0.105	632
A3009	DALI DIN - Repeater	1		0.190	632

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
A3010	DALI - Box for repeater	1		0.130	632
A3013	A on/off - Sensor	1		0.250	646
A3014	A on/off-ext - Sensor	1		0.175	646
A3015	B Dual-DALI - Sensor	1		0.280	648
A3018	B on/off - Sensor	1		0.280	647
A3019	B on/off-ext - Sensor	1		0.280	647
A3020	IR DALI - Programmer	1		0.135	545, 650
A3021	IR DALI - Remote controller	1		0.180	544, 650
A3023	IR on/off - Programmer	1		0.100	650
A3024	IP54 White fixing	1		0.200	650
A3025	A SLAVE - Sensor	1		0.325	646
A3026	A SLAVE-ext - Sensor	1		0.300	647
A3027	B SLAVE - Sensor	1		0.300	648
A3028	B SLAVE-ext - Sensor	1		0.315	648
A3029	Corridor on/off - Sensor	1		0.300	649
A3030	Corridor on/off-ext - Sensor	1		0.350	649
A3033	Corridor SLAVE - Sensor	1		0.280	649
A3034	Corridor SLAVE-ext - Sensor	1		0.350	649
A3038	IR DALI GH - Programmer	1		0.095	648
A3039	A DALI-2 - Sensor	1		0.180	646
A3040	IP54 ceiling base for A DALI-2 sensor	1		0.180	646
A3041	B DALI-2 - Sensor	1		0.360	647
A3042	IP54 ceiling base for B DALI-2 sensor	1		0.125	647
A3043	DALI-2 Sensor - Type B - GH	1		0.310	648
A3044	Corridor det. lens for B DALI-2 sensor	1		0.065	649
A3045	HCL2 DT8 - Sensor	1		0.395	655
A3046	HCL2 DT8-ext - Sensor	1		0.490	655
A3047	BLE-IR - Adapter for Smartphone	1		0.260	545, 650, 655
A3064	DALI PCU TW G2 - push button interface	1		0.075	632
A3102	SENSEMBZQ-10m built-in IP65	1		0.240	670
A3103	NODEZQ-4 IP20	1		0.070	670
A3104	NODEZQ-32 IP20	1		0.070	670
A3105	NODEZQ-4 Zhaga IP66	1		0.090	670
A3106	SENSEHBZQ-17m built-in IP65	1		0.240	670
A3107	SENSEZQ-10m IP52	1		0.250	670
A3108	SENSEZQ-17m IP52	1		0.250	670
A3109	SENSEZQ-5m IP20	1		0.150	671
A3110	ZQ buttons interface	1		0.040	671
A3111	ZQ Ethernet Gateway	1		0.160	671
A3112	ZQ control unit	1		0.300	671
A3113	SENSEZQ-5m built-in IP20	1		0.020	671
A4064	Binario 3F A - L1000 - BK	1	0.001	1.020	370
A4065	Binario 3F A - L2000 - BK	1	0.002	2.080	370
A4066	Binario 3F A - L3000 - BK	1	0.003	2.550	370
A4067	Binario 3F A - L4000 - BK	1	0.005	4.140	370
A4070	Binario 3F A - L1000 - WH	1	0.001	1.005	370
A4071	Binario 3F A - L2000 - WH	1	0.002	2.200	370
A4072	Binario 3F A - L3000 - WH	1	0.003	2.550	370
A4073	Binario 3F A - L4000 - WH	1	0.005	4.105	370
A4076	Binario 3F A - L1000 - GR	1		1.100	370
A4077	Binario 3F A - L2000 - GR	1		2.200	370
A4078	Binario 3F A - L3000 - GR	1		2.550	370
A4079	Binario 3F A - L4000 - GR	1		4.400	370
A4166	Power-supply head DX - GR	1		0.105	371
A4168	Flexible connecting element - GR	1		0.210	371
A4169	L-joint - EXT - GR	1		0.200	372
A4170	T-joint - EXT + SX - GR	1		0.300	372
A4171	Cross joint - GR	1		0.390	372
A4172	End cap - GR	1		0.010	371
A4173	PVC closing top - L1000 - GR	1		0.120	372

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
A4174	Power-supply head DX - WH	1		0.105	371
A4176	Flexible connecting element - WH	1		0.395	371
A4177	L-joint - EXT - WH	1		0.330	372
A4178	T-joint - EXT + SX - WH	1		0.330	372
A4179	Cross joint - WH	1		0.390	372
A4180	End cap - WH	1		0.025	371
A4181	PVC closing top - L1000 - WH	1		0.095	372
A4182	Linear connecting element - GR	1		0.050	371
A4183	Steel bracket for ceiling installation	1		0.020	373
A4188	Linear connecting element - WH	1		0.050	371
A4190	Power-supply head SX - GR	1		0.265	371
A4191	L-joint - INT - GR	1		0.200	372
A4192	T-joint - EXT + DX - GR	1		0.300	372
A4193	T-joint - INT + SX - GR	1		0.290	372
A4194	T-joint - INT + DX - GR	1		0.300	372
A4196	Power-supply head SX - WH	1		0.105	371
A4197	L-joint - INT - WH	1		0.335	372
A4198	T-joint - EXT + DX - WH	1		0.330	372
A4199	T-joint - INT + SX - WH	1		0.465	372
A4200	T-joint - INT + DX - WH	1		0.310	372
A4204	Adj. susp. boss + 1.5m bracket	1		0.065	373
A4205	Adj. susp. boss + 3m bracket	1		0.075	373
A4206	Adj. susp. boss + 5m bracket	1		0.095	373
A4209	Power-supply head DX - BK	1		0.255	371
A4211	Flexible connecting element - BK	1		0.210	371
A4212	L-joint - EXT - BK	1		0.255	372
A4213	T-joint - EXT + SX - BK	1		0.310	372
A4214	Cross joint - BK	1		0.390	372
A4215	End cap - BK	1		0.090	371
A4216	PVC closing top - L1000 - BK	1		0.070	372
A4217	Linear connecting element - BK	1		0.130	371
A4218	Power-supply head SX - BK	1		0.120	371
A4219	L-joint - INT - BK	1		0.210	372
A4220	T-joint - EXT + DX - BK	1		0.305	372
A4221	T-joint - INT + SX - BK	1		0.350	372
A4222	T-joint - INT + DX - BK	1		0.350	372
A4225	Rigid support bracket	1		0.050	373
A4226	Middle feed - WH	1		0.445	371
A4227	Middle feed - BK	1		0.445	371
A5013	Kit LED I3F75,A3F 90,A3F 92-L1565-2X22W CONC+PC	1	0.039	3.000	588
A5026	KIT LED i3F 75, A3F 90-L1565 - 2x30W+PC	1	0.039	6.450	588
A5027	Kit LED I3F 75, A3F 90, A3F 92-L1565 - 2X22W+PC	1	0.039	6.380	588
A5057	Kit LED i3F 75,A3F 90-92 L1265 2x18W +PC	1	0.039	5.360	588
A5104	Kit LED I3F 76, A3F 91, A3F 93-L1565-2X22W CONC	1	0.039	2.630	589
A5117	KIT LED i3F 76, A3F 91 - L1565-2x30W	1	0.019	6.105	589
A5118	Kit LED I3F 76, A3F 91, A3F 93 - L1565-2X22W	1	0.019	5.520	589
A5148	KIT LED i3F 76,A3F 91,A3F 93-L1265-2x18W	1	0.019	3.300	589
A5184	Moulded glass Beta 2x i3F 76 - L1565	1		14.070	590
A5185	Moulded glass Beta 2x i3F 76 - L1265	1		11.955	590
A5210	Kit LED i3F 76,A3F 91 - L1565 - L 2x40W AMPIO	1	0.019	7.440	589
A5212	Kit LED i3F 76,A3F 91 - L1565 - L 2x40W CONC	1	0.019	10.695	589
A5215	Kit LED i3F 75,A3F 90 - L1565 - L 2x40W AMPIO + PC	1	0.019	10.310	588
A5217	Kit LED i3F 75,A3F 90 - L1565 - L 2x40W CONC + PC	1	0.019	9.590	588
A5223	Kit LED 3F Cub - 100W/840	1	0.032	3.385	598
A5224	Kit LED 3F Cub - 150W/840	1	0.032	3.635	598
A5225	Kit LED 3F Cub - 100W/840 EP	1	0.032	4.100	598
A5226	Kit LED 3F Cub - 150W/840 EP	1	0.032	4.400	598
A5227	Kit LED 3F Cub - 100W/840 DALI	1	0.032	3.505	598
A5228	Kit LED 3F Cub - 150W/840 DALI	1	0.032	3.685	598
A5229	Kit LED 3F Cub - 100W/840 EP DALI	1	0.032	4.100	598

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
A5230	Kit LED 3F Cub - 150W/840 EP DALI	1	0.032	4.400	598
A5231	Kit LED 3F Cub CR - 100W/840	1	0.032	3.505	599
A5232	Kit LED 3F Cub CR - 150W/840	1	0.032	3.800	599
A5233	Kit LED 3F Cub CR - 100W/840 EP	1	0.032	4.100	599
A5234	Kit LED 3F Cub CR - 150W/840 EP	1	0.032	4.400	599
A5235	Kit LED 3F Cub CR - 100W/840 DALI	1	0.032	3.505	599
A5236	Kit LED 3F Cub CR - 150W/840 DALI	1	0.032	3.800	599
A5237	Kit LED 3F Cub CR - 100W/840 EP DALI	1	0.032	4.100	599
A5238	Kit LED 3F Cub CR - 150W/840 EP DALI	1	0.032	4.400	599
A5243	Photo-etched diffuser Linda 1x L660 (3pcs)	1		2.565	603
A5244	Photo-etched diffuser Linda 1x L1270 (3pcs)	1		4.050	603
A5245	Photo-etched diffuser Linda 1x L1570 (3pcs)	1		5.760	603
A5246	Photo-etched diffuser Linda 2x L660 (3pcs)	1		4.710	603
A5247	Photo-etched diffuser Linda 2x L1270 (3pcs)	1		5.955	603
A5248	Photo-etched diffuser Linda 2x L1570 (3pcs)	1		7.500	603
A5260	Kit LED 3F Linda - L660 - 1x6W (2pcs)	1	0.008	3.300	602
A5261	Kit LED 3F Linda - L660 - 1x12W (2pcs)	1	0.008	3.300	602
A5262	Kit LED 3F Linda - L1270 - 1x18W (2pcs)	1	0.019	4.400	602
A5263	Kit LED 3F Linda - L1270 - 1x24W (2pcs)	1	0.019	4.400	602
A5264	Kit LED 3F Linda - L1570 - 1x22W (2pcs)	1	0.019	5.960	602
A5265	Kit LED 3F Linda - L1570 - 1x30W (2pcs)	1	0.019	5.960	602
A5266	Kit LED 3F Linda - L660 - 2x6W (2pcs)	1	0.013	3.700	602
A5267	Kit LED 3F Linda - L660 - 2x12W (2pcs)	1	0.013	3.700	602
A5268	Kit LED 3F Linda - L1270 - 2x18W (2pcs)	1	0.019	6.500	602
A5269	Kit LED 3F Linda - L1270 - 2x24W (2pcs)	1	0.019	6.500	602
A5270	Kit LED 3F Linda - L1570 - 2x22W (2pcs)	1	0.019	7.400	602
A5271	Kit LED 3F Linda - L1570 - 2x30W (2pcs)	1	0.019	7.400	602
A5308	Kit LED Beta 430 - L1551- 2X65W AMPIO	1	0.067	11.850	594
A5309	Kit LED Beta 430 - L1551- 2X65W CONC	1	0.067	5.500	594
A5311	Kit LED Beta 430 - L1551- 3X65W AMPIO	1	0.067	7.245	594
A5312	Kit LED Beta 430 - L1551- 3X65W CONC	1	0.067	7.060	594
A5322	Moulded glass with frame Beta 430-L1551	1		63.200	595
A01004	Pair of brackets ceiling Rover	1		0.350	432
A01005	Chain suspension kit	1		0.120	432
A01006	Cable gland reducer ø7-9mm for CR 3P	1		0.450	411, 432
A01007	Cable gland reducer ø13-17mm for CR 5P	1		0.550	411, 432
A01023	VT 3F RENO WH 150	1		1.050	264
A01024	VT 3F RENO BK 150	1		0.800	264
A01025	VT 3F RENO WH 200	1		1.550	264
A01026	VT 3F RENO BK 200	1		1.500	264
A01035	VS 3F RENO WH 150	1		1.000	264
A01036	VS 3F RENO BK 150	1		0.825	264
A01037	VS 3F RENO WH 200	1		1.975	264
A01038	VS 3F RENO BK 200	1		1.850	264
A01046	SMP 3F RENO WH 150	1		0.425	264
A01047	SMP 3F RENO BK 150	1		0.500	265
A01048	SMP 3F RENO WH 200	1		1.200	264
A01049	SMP 3F RENO BK 200	1		1.200	265
A01090	WH adapter ring for 220 mm hole	1		1.350	265
A01091	WH adapter ring for 255 mm hole	1		2.800	265
A01092	WH adapter ring for hole 300 mm <9 mm	1		6.950	265
A01093	WH adapter ring for hole 300 mm >9 mm	1		7.500	265
A01314	White rectangular case fixed susp. 0,3m	1		5.500	66
A01315	White rectangular case fixed susp. 0,5m	1		5.250	66
A01317	White rectangular case fixed susp. 1m	1		5.750	66
A01318	White rectangular case adj. susp. 1 m	1		6.750	66
A01321	Wired fixed susp. 5P wh.rect.case 0,3m	1		5.700	66
A01322	Wired fixed susp. 5P wh.rect.case 0,5m	1		8.200	66
A01324	Wired fixed susp. 5P wh.rect.case 1m	1		10.600	66
A01325	Wired adj. susp. 5P wh.rect.case 1 m	1		9.000	66

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		Pcs	m³	Gross weight in kg	
A01368	Travetta B joint closing cap	1		0.900	66
A01479	Wall bracket 15° diam 60mm	1		2.865	621
A01480	Fixed position wall bracket	1		2.755	621
A01481	Corner wall bracket 15° diam 60mm	1		3.125	621
A01485	ZK700-900EL DRIVER ON-OFF DIP-SWITCH	1		0.170	151
A01486	DELT40C-MEL DRIVER DALI DIP-SWITCH	1		0.205	151
A01489	3FLPLAFO604 - 60x60 ceiling frame kit	1		0.850	146
A01490	3FLPLAFO603 - 60x60 ceiling frame kit	1		0.580	151
A01491	3FLPLAFO1203 - 30x120 ceiling frame kit	1		0.900	151
A01492	3FKTLP-SPU - Suspension with adjustment - 2m	1		0.110	151
A01493	3FKTLPW1-MS - Built-in springs	1		0.110	151
A01495	600x600 carter for metal panels	1		1.750	151
A01498	3FLP Kit EP 1h/3h - 12h	1		0.540	151
A02562	Caddy for exposed profiles of 24 mm	1		0.500	87, 332
A20011	3F Linux S NL L3556	1	0.021	7.160	300
A20012	3F Linux S NL L1778	1	0.011	3.470	300
A20017	3F Linux S 5P L3556	1	0.021	8.470	300
A20019	3F Linux S 5P L1778	1	0.011	4.040	300
A20024	3F Linux S 7P L3556	1	0.021	8.840	300
A20026	3F Linux S 7P L1778	1	0.011	4.310	300
A20083	3F Linux L 60 LED BAT L1778	1	0.009	2.700	312
A20084	3F Linux L 50 LED BAT L1778	1	0.009	2.740	312
A20085	3F Linux L 40 LED BAT L1778	1	0.009	2.750	312
A20097	3F Linux L 60 LED DALI BAT L1778	1	0.009	2.780	312
A20098	3F Linux L 50 LED DALI BAT L1778	1	0.009	2.700	312
A20099	3F Linux L 40 LED DALI BAT L1778	1	0.009	2.700	312
A20124	3F Linux L 85 LED AMPIO L1778	1	0.009	2.700	308
A20125	3F Linux L 60 LED AMPIO L1778	1	0.009	2.640	308
A20126	3F Linux L 50 LED AMPIO L1778	1	0.009	2.665	308
A20127	3F Linux L 40 LED AMPIO L1778	1	0.009	2.670	308
A20138	3F Linux L 85 LED DALI AMPIO L1778	1	0.009	2.705	308
A20139	3F Linux L 60 LED DALI AMPIO L1778	1	0.009	2.725	308
A20140	3F Linux L 50 LED DALI AMPIO L1778	1	0.009	2.700	308
A20141	3F Linux L 40 LED DALI AMPIO L1778	1	0.009	2.725	308
A20166	3F Linux L 85 LED CONC L1778	1	0.009	2.635	313
A20167	3F Linux L 60 LED CONC L1778	1	0.009	2.650	313
A20180	3F Linux L 85 LED DALI CONC L1778	1	0.009	2.630	313
A20181	3F Linux L 60 LED DALI CONC L1778	1	0.009	2.635	313
A20335	3F Linux D 2x30 LED L1778	1	0.018	2.870	318
A20336	3F Linux D 2x22 LED L1778	1	0.018	2.780	318
A20349	3F Linux D 2x30 LED DALI L1778	1	0.018	2.795	318
A20350	3F Linux D 2x22 LED DALI L1778	1	0.018	3.000	318
A20424	3F Linux TK L1778	1	0.018	3.520	330
A20428	Closing Top LOW - L1778	1		5.310	334
A20433	Linear connecting element	1		1.700	87, 333
A20434	T-Connecting element 3F Linux	1		1.280	333
A20436	L-Connecting element 3F L Linux	1		0.730	333
A20442	Closing Top HIGH - L1778	1		10.530	333
A20448	Pair of closing end 3F Linux	1		3.500	333
A20450	Slid.invis.brack.w/adj.for susp.3F Linux	1		12.000	331
A20451	Slid.invis.brack.ceiling instal.3F Linux	1		12.000	331
A20452	Stainless steel hook for chain	1		6.000	87, 331
A20453	S-shaped chain hook w/slid.bra. 3F Linux	1		1.200	331
A20454	5-pole socket-plug term.block 3F Linux S	1		6.500	335
A20455	7-pole socket-plug term.block 3F Linux S	1		9.000	335
A20459	5-pole socket-plug L-branch 3F Linux S	1		0.450	335
A20460	7-pole socket-plug L-branch 3F Linux S	1		0.550	335
A20464	5-pole socket-plug T-branch 3F Linux S	1		1.250	335
A20465	7-pole socket-plug T-branch 3F Linux S	1		1.750	335
A20470	Pair of mounting brack. lum. 3F Linux S	1		7.500	334

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		Pcs	m³	Gross weight in kg	
A20474	Safety screw locking slid.bra.3F Linux S	1		2.100	331
A20475	3F Linux Cable Support (10 pcs)	1		0.100	334
A20476	Contact pin for 3F Linux plug (50 pcs.)	1		0.175	336
A20478	Anti-slip term. incli. 3F Linux	1		0.600	88, 333
A20479	Power cable for luminaires 3P-3F Linux	1		1.200	336
A20480	Power cable for luminaires 5P-3F Linux	1		1.500	336
A20485	Suspension without adjustment - 0.5 m	1		3.000	332
A20486	Suspension without adjustment - 1 m	1		3.500	332
A20487	Suspension without adjustment - 2 m	1		4.500	332
A20488	Suspension without adjustment - 3 m	1		6.000	332
A20489	Suspension without adjustment - 4 m	1		6.000	332
A20490	Suspension without adjustment - 5 m	1		9.000	332
A20491	Suspension without adjustment - 6 m	1		8.000	332
A20500	Cen.pow-sup.soc-plug ter-blo.3FLinuxS 5P	1		10.000	335
A20501	Cen.pow-sup.soc-plug ter-blo.3FLinuxS 7P	1		15.000	335
A20504	Pair brack.3F Linda instal.in 3F Linux S	1		8.300	334
A20511	3F Linux DR 2x30 LED L1778	1	0.018	2.885	322
A20512	3F Linux DR 2x22 LED L1778	1	0.018	2.795	322
A20525	3F Linux DR 2x30 LED DALI L1778	1	0.018	2.855	322
A20526	3F Linux DR 2x22 LED DALI L1778	1	0.018	2.860	322
A20595	3F Linux DR 1x30 LED UGR L1778	1	0.018	3.290	322
A20596	3F Linux DR 2x22 LED UGR L1778	1	0.018	3.350	322
A20599	3F Linux DR 1x30 LED DALI UGR L1778	1	0.018	3.320	322
A20600	3F Linux DR 2x22 LED DALI UGR L1778	1	0.018	3.335	322
A20608	3F Linux L 60 LED BAT WD L1778	1	0.009	2.745	313
A20609	3F Linux L 50 LED BAT WD L1778	1	0.009	2.650	313
A20610	3F Linux L 40 LED BAT WD L1778	1	0.009	2.650	313
A20622	3F Linux L 60 LED DALI BAT WD L1778	1	0.009	2.700	313
A20623	3F Linux L 50 LED DALI BAT WD L1778	1	0.009	2.700	313
A20624	3F Linux L 40 LED DALI BAT WD L1778	1	0.009	2.700	313
A20661	3F Linux L 50 LED UGR L1778	1	0.009	2.725	310
A20662	3F Linux L 40 LED UGR L1778	1	0.009	2.690	310
A20664	3F Linux L 50/940 LED UGR L1778	1	0.009	2.725	310
A20665	3F Linux L 40/940 LED UGR L1778	1	0.009	2.740	310
A20667	3F Linux L 50 LED DALI UGR L1778	1	0.009	2.750	310
A20668	3F Linux L 40 LED DALI UGR L1778	1	0.009	2.780	310
A20670	3F Linux L 50/940 LED DALI UGR L1778	1	0.009	2.760	310
A20671	3F Linux L 40/940 LED DALI UGR L1778	1	0.009	2.760	310
A20674	3F Linux DR 2x30 LED AS L1778	1	0.018	3.580	323
A20679	3F Linux DR 2x30 LED DALI AS L1778	1	0.018	3.615	323
A20684	3F Linux L 85 LED IPERCONC L1778	1	0.009	2.650	314
A20685	3F Linux L 60 LED IPERCONC L1778	1	0.009	2.650	314
A20698	3F Linux L 85 LED DALI IPERCONC L1778	1	0.009	2.670	314
A20699	3F Linux L 60 LED DALI IPERCONC L1778	1	0.009	2.645	314
A20723	3F Linux 7P IP54 L3556 System	1	0.021	12.380	304
A20724	3F Linux 7P IP54 L1778 System	1	0.011	6.140	304
A20725	3F Linux 5P IP54 L3556 System	1	0.021	12.500	304
A20726	3F Linux 5P IP54 L1778 System	1	0.011	5.980	304
A20740	IP54 3F Linux End terminal	1		5.500	334
A20741	IP54 3F Linux End terminal with 1 hole	1		6.500	335
A20742	IP54 3F Linux End terminal with 2 holes	1		7.500	335
A20743	IP54 - L1778 Closing Top	1		0.720	334
A20744	3F Linux L 85 LED AS L1778	1	0.009	2.650	311
A20745	3F Linux L 60 LED AS L1778	1	0.009	2.665	311
A20746	3F Linux L 50 LED AS L1778	1	0.009	2.650	311
A20747	3F Linux L 40 LED AS L1778	1	0.009	2.660	311
A20749	3F Linux L 85 LED DALI AS L1778	1	0.009	2.700	311
A20750	3F Linux L 60 LED DALI AS L1778	1	0.009	2.720	311
A20751	3F Linux L 50 LED DALI AS L1778	1	0.009	2.775	311
A20752	3F Linux L 40 LED DALI AS L1778	1	0.009	2.755	311

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		Pcs	m³	Gross weight in kg	
A20754	3F Linux L 85 LED MEDIO L1778	1	0.009	2.550	309
A20755	3F Linux L 60 LED MEDIO L1778	1	0.009	2.545	309
A20756	3F Linux L 50 LED MEDIO L1778	1	0.009	2.525	309
A20757	3F Linux L 40 LED MEDIO L1778	1	0.009	2.650	309
A20759	3F Linux L 85 LED DALI MEDIO L1778	1	0.009	2.575	309
A20760	3F Linux L 60 LED DALI MEDIO L1778	1	0.009	2.565	309
A20761	3F Linux L 50 LED DALI MEDIO L1778	1	0.009	2.700	309
A20762	3F Linux L 40 LED DALI MEDIO L1778	1	0.009	2.565	309
A20766	3F Linux DT 2x15 LED UGR L1778	1	0.018	3.650	326
A20767	3F Linux DT 2x30 LED UGR L1778	1	0.018	3.605	326
A20768	3F Linux DT 2x15 LED DALI UGR L1778	1	0.018	3.715	326
A20769	3F Linux DT 2x30 LED DALI UGR L1778	1	0.018	2.790	326
1775	03F 28W/840 3P SC L1204	1	0.010	2.785	38
1776	03F 35W/840 3P SC L1506	1	0.012	3.435	38
1777	03F 42W/840 3P SC L1787	1	0.014	4.035	38
1778	03F 28W/830 3P SC L1204	1	0.010	2.870	38
1779	03F 35W/830 3P SC L1506	1	0.012	3.395	38
1780	03F 42W/830 3P SC L1787	1	0.014	3.930	38
1781	03F 28W/840 3P CC L1204	1	0.010	2.870	39
1782	03F 35W/840 3P CC L1506	1	0.012	3.485	39
1783	03F 42W/840 3P CC L1787	1	0.014	4.130	39
1784	03F 28W/830 3P CC L1204	1	0.010	2.870	39
1785	03F 35W/830 3P CC L1506	1	0.012	3.485	39
1786	03F 42W/830 3P CC L1787	1	0.014	4.025	39
1787	03F 28W/840 3P EC L1204	1	0.010	2.715	40
1788	03F 35W/840 3P EC L1506	1	0.012	3.350	40
1789	03F 42W/840 3P EC L1787	1	0.014	3.955	40
1790	03F 28W/830 3P EC L1204	1	0.010	2.870	40
1791	03F 35W/830 3P EC L1506	1	0.012	3.355	40
1792	03F 42W/830 3P EC L1787	1	0.014	3.910	40
1811	03F 14W/830 L620	1	0.006	1.445	32
1812	03F 28W/830 L1204	1	0.010	2.760	32
1813	03F 35W/830 L1506	1	0.012	3.315	32
1814	03F 42W/830 L1787	1	0.014	3.855	32
1815	03F 14W/830 DALI L620	1	0.006	1.480	32
1816	03F 28W/830 DALI L1204	1	0.010	2.790	32
1817	03F 35W/830 DALI L1506	1	0.012	3.395	32
1818	03F 42W/830 DALI L1787	1	0.014	3.850	32
1819	03F 28W/830 EP L1204	1	0.010	2.910	33
1820	03F 35W/830 EP L1506	1	0.012	3.560	33
1821	03F 42W/830 EP L1787	1	0.014	6.600	33
1822	03F 28W/830 DALI EP L1204	1	0.010	4.600	33
1823	03F 35W/830 DALI EP L1506	1	0.012	5.500	33
1824	03F 42W/830 DALI EP L1787	1	0.014	6.600	33
1825	03F 14W/830 AS L620	1	0.006	1.550	34
1826	03F 28W/830 AS L1204	1	0.010	2.570	34
1827	03F 35W/830 AS L1506	1	0.012	3.890	34
1828	03F 42W/830 AS L1787	1	0.014	3.665	34
1829	03F HO 18W/830 L620	1	0.006	1.550	35
1830	03F HO 35W/830 L1204	1	0.010	2.700	35
1831	03F HO 44W/830 L1506	1	0.012	3.100	35
1832	03F HO 53W/830 L1787	1	0.014	3.825	35
1833	03F HO 18W/830 DALI L620	1	0.006	1.480	35
1834	03F HO 35W/830 DALI L1204	1	0.010	2.560	35
1835	03F HO 44W/830 DALI L1506	1	0.012	3.395	35
1836	03F HO 53W/830 DALI L1787	1	0.014	3.815	35
1837	03F 28W/830 DALI 5P SC L1204	1	0.010	2.870	38
1838	03F 35W/830 DALI 5P SC L1506	1	0.012	3.560	38
1839	03F 42W/830 DALI 5P SC L1787	1	0.014	3.945	38
1840	03F 28W/830 DALI 5P CC L1204	1	0.010	3.000	39

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		Pcs	m³	Gross weight in kg	
1841	03F 35W/830 DALI 5P CC L1506	1	0.012	3.675	39
1842	03F 42W/830 DALI 5P CC L1787	1	0.014	4.245	39
1843	03F 28W/830 DALI 5P EC L1204	1	0.010	2.815	40
1844	03F 35W/830 DALI 5P EC L1506	1	0.012	3.470	40
1845	03F 42W/830 DALI 5P EC L1787	1	0.014	3.960	40
1855	03F 14W/840 L620	1	0.006	1.550	32
1856	03F 28W/840 L1204	1	0.010	2.570	32
1857	03F 35W/840 L1506	1	0.012	3.100	32
1858	03F 42W/840 L1787	1	0.014	3.665	32
1859	03F 18W/940 L620	1	0.006	1.525	32
1860	03F 35W/940 L1204	1	0.010	2.575	32
1861	03F 44W/940 L1506	1	0.012	3.265	32
1862	03F 53W/940 L1787	1	0.014	3.900	32
1863	03F 14W/840 DALI L620	1	0.006	1.480	32
1864	03F 28W/840 DALI L1204	1	0.010	2.560	32
1865	03F 35W/840 DALI L1506	1	0.012	3.195	32
1866	03F 42W/840 DALI L1787	1	0.014	3.815	32
1867	03F 18W/940 DALI L620	1	0.006	1.635	32
1868	03F 35W/940 DALI L1204	1	0.010	2.610	32
1869	03F 44W/940 DALI L1506	1	0.012	3.095	32
1870	03F 53W/940 DALI L1787	1	0.014	3.905	32
1871	03F 28W/840 EP L1204	1	0.010	2.910	33
1872	03F 35W/840 EP L1506	1	0.012	3.560	33
1873	03F 42W/840 EP L1787	1	0.014	6.600	33
1874	03F 35W/940 EP L1204	1	0.010	4.600	33
1875	03F 44W/940 EP L1506	1	0.012	5.500	33
1876	03F 53W/940 EP L1787	1	0.014	4.105	33
1877	03F 28W/840 DALI EP L1204	1	0.010	4.600	33
1878	03F 35W/840 DALI EP L1506	1	0.012	3.635	33
1879	03F 42W/840 DALI EP L1787	1	0.014	6.600	33
1880	03F 35W/940 DALI EP L1204	1	0.010	4.600	33
1881	03F 44W/940 DALI EP L1506	1	0.012	5.500	33
1882	03F 53W/940 DALI EP L1787	1	0.014	4.185	33
1883	03F 14W/840 AS L620	1	0.013	1.770	34
1884	03F 28W/840 AS L1204	1	0.021	3.810	34
1885	03F 35W/840 AS L1506	1	0.026	3.830	34
1886	03F 42W/840 AS L1787	1	0.027	6.000	34
1887	03F 18W/940 AS L620	1	0.013	2.200	34
1888	03F 35W/940 AS L1204	1	0.021	4.000	34
1889	03F 44W/940 AS L1506	1	0.026	4.900	34
1890	03F 53W/940 AS L1787	1	0.027	6.000	34
1891	03F HO 18W/840 L620	1	0.006	1.550	35
1892	03F HO 35W/840 L1204	1	0.010	2.695	35
1893	03F HO 44W/840 L1506	1	0.012	3.390	35
1894	03F HO 53W/840 L1787	1	0.014	3.840	35
1895	03F HO 18W/840 DALI L620	1	0.006	1.550	35
1896	03F HO 35W/840 DALI L1204	1	0.010	2.760	35
1897	03F HO 44W/840 DALI L1506	1	0.012	3.100	35
1898	03F HO 53W/840 DALI L1787	1	0.014	3.940	35
1905	03F 28W/840 DALI 5P SC L1204	1	0.010	2.885	38
1906	03F 35W/840 DALI 5P SC L1506	1	0.012	3.515	38
1907	03F 42W/840 DALI 5P SC L1787	1	0.014	4.035	38
1912	03F 28W/840 DALI 5P CC L1204	1	0.010	2.990	39
1913	03F 35W/840 DALI 5P CC L1506	1	0.012	3.650	39
1914	03F 42W/840 DALI 5P CC L1787	1	0.014	4.205	39
1918	03F 28W/840 DALI 5P EC L1204	1	0.010	2.840	40
1919	03F 35W/840 DALI 5P EC L1506	1	0.012	3.445	40
1920	03F 42W/840 DALI 5P EC L1787	1	0.014	3.980	40
1930	03F 28W DT8 TW L1204	1	0.010	2.820	44
1931	03F 35W DT8 TW L1506	1	0.012	3.100	44

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		Pcs	m³	Gross weight in kg	
1932	03F 42W DT8 TW L1787	1	0.014	3.990	44
1959	MIRA PAR LED 4x12W IND L675	1	0.014	3.480	120
1960	Mira Par LED 4x12W DALI IND L675	1	0.014	3.580	120
1961	MIRA PAR LED DE 4x12W L675	1	0.014	3.415	120
1963	Mira Par LED DE 4x12W DALI L675	1	0.014	3.405	120
2326	3F Eldorado 29/840 DALI LGS 596	1	0.038	7.055	132
2327	3F Eldorado 39/840 DALI LGS 596	1	0.038	6.000	132
2328	3F Eldorado 29/840 DALI LGS 621	1	0.041	6.000	132
2329	3F Eldorado 39/840 DALI LGS 621	1	0.041	6.000	132
2330	3F Eldorado 29+30/840 DALI LGS+OP 596	1	0.038	6.500	136
2331	3F Eldorado 39+30/840 DALI LGS+OP 596	1	0.038	6.500	136
2332	3F Eldorado 29+30/840 DALI LGS+OP 621	1	0.041	6.500	136
2333	3F Eldorado 39+30/840 DALI LGS+OP 621	1	0.041	6.500	136
5066	3F Linda LED 1x6W L300	1	0.004	0.655	477
5067	3F Linda LED 1x6W LA L300	1	0.006	0.880	477
5068	3F Linda LED 2x6W L300	1	0.006	0.925	477
5069	3F Linda LED 1x6W EP LA L300	1	0.006	1.070	477
5070	3F Linda LED 2x6W EP L300	1	0.006	1.145	477
5071	3F Linda LED 1x6W ENP LA L300	1	0.006	1.020	477
6128	3F C8 WH 30/840 DALI GSP L1480	1	0.015	3.345	48
6130	3F C8 WH DI 30+8/840 DALI GSP L1480	1	0.015	3.565	52
6136	3F C8 BK 30/840 DALI GSP L1480	1	0.015	3.295	48
6138	3F C8 BK DI 30+8/840 DALI GSP L1480	1	0.015	3.645	52
6140	3F C8 WH HO 44/840 DALI GSP L1480	1	0.015	4.500	48
6142	3F C8 WH DI HO 44+8/840 DALI GSP L1480	1	0.015	4.800	52
6148	3F C8 BK HO 44/840 DALI GSP L1480	1	0.015	3.395	48
6150	3F C8 BK DI HO 44+8/840 DALI GSP L1480	1	0.015	3.650	52
7001	3F Manta AN 50/730 WIDE	1	0.048	11.670	618
7002	3F Manta AN 75/730 WIDE	1	0.048	12.190	618
7003	3F Manta AN 100/730 WIDE	1	0.048	12.180	618
7004	3F Manta AN 135/730 WIDE	1	0.048	12.800	618
7009	3F Manta AN 50/730 MEDIUM	1	0.048	11.660	619
7010	3F Manta AN 75/730 MEDIUM	1	0.048	11.980	619
7011	3F Manta AN 100/730 MEDIUM	1	0.048	12.230	619
7012	3F Manta AN 135/730 MEDIUM	1	0.048	12.800	619
7020	3F Manta AN 185/730 MEDIUM	1	0.048	12.415	619
7022	3F Manta AN 50/830 WIDE	1	0.048	11.595	618
7023	3F Manta AN 75/830 WIDE	1	0.048	12.110	618
7024	3F Manta AN 100/830 WIDE	1	0.048	11.955	618
7025	3F Manta AN 135/830 WIDE	1	0.048	12.800	618
7026	3F Manta AN 50/730 II WIDE	1	0.048	11.560	618
7027	3F Manta AN 75/730 II WIDE	1	0.048	12.205	618
7028	3F Manta AN 100/730 II WIDE	1	0.048	12.030	618
7029	3F Manta AN 135/730 II WIDE	1	0.048	11.995	618
7030	3F Manta AN 50/830 II WIDE	1	0.048	11.670	618
7031	3F Manta AN 75/830 II WIDE	1	0.048	12.115	618
7032	3F Manta AN 100/830 II WIDE	1	0.048	12.200	618
7033	3F Manta AN 135/830 II WIDE	1	0.048	12.800	618
7035	3F Manta AN 50/830 MEDIUM	1	0.048	12.800	619
7036	3F Manta AN 75/830 MEDIUM	1	0.048	12.800	619
7037	3F Manta AN 100/830 MEDIUM	1	0.048	12.305	619
7038	3F Manta AN 135/830 MEDIUM	1	0.048	12.800	619
7039	3F Manta AN 185/830 MEDIUM	1	0.048	12.135	619
7040	3F Manta AN 50/730 II MEDIUM	1	0.048	11.695	619
7041	3F Manta AN 75/730 II MEDIUM	1	0.048	12.800	619
7042	3F Manta AN 100/730 II MEDIUM	1	0.048	12.800	619
7043	3F Manta AN 135/730 II MEDIUM	1	0.048	12.800	619
7044	3F Manta AN 185/730 II MEDIUM	1	0.048	12.290	619
7045	3F Manta AN 50/830 II MEDIUM	1	0.048	12.800	619
7046	3F Manta AN 75/830 II MEDIUM	1	0.048	12.800	619

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		Pcs	m³	Gross weight in kg	
7047	3F Manta AN 100/830 II MEDIUM	1	0.048	12.800	619
7048	3F Manta AN 135/830 II MEDIUM	1	0.048	12.800	619
7049	3F Manta AN 185/830 II MEDIUM	1	0.048	12.390	619
7051	3F Manta AN 50/730 FRONT	1	0.048	12.300	620
7052	3F Manta AN 75/730 FRONT	1	0.048	12.800	620
7053	3F Manta AN 100/730 FRONT	1	0.048	12.405	620
7054	3F Manta AN 135/730 FRONT	1	0.048	12.800	620
7055	3F Manta AN 50/830 FRONT	1	0.048	12.800	620
7056	3F Manta AN 75/830 FRONT	1	0.048	12.070	620
7057	3F Manta AN 100/830 FRONT	1	0.048	12.800	620
7058	3F Manta AN 135/830 FRONT	1	0.048	12.800	620
7059	3F Manta AN 50/730 II FRONT	1	0.048	12.800	620
7060	3F Manta AN 75/730 II FRONT	1	0.048	12.800	620
7061	3F Manta AN 100/730 II FRONT	1	0.048	12.800	620
7062	3F Manta AN 135/730 II FRONT	1	0.048	12.800	620
7063	3F Manta AN 50/830 II FRONT	1	0.048	12.800	620
7064	3F Manta AN 75/830 II FRONT	1	0.048	12.800	620
7065	3F Manta AN 100/830 II FRONT	1	0.048	12.800	620
7066	3F Manta AN 135/830 II FRONT	1	0.048	12.800	620
7400	3F Manta AN 30/730 WIDE	1	0.048	11.670	618
7401	3F Manta AN 30/830 WIDE	1	0.048	11.670	618
7402	3F Manta AN 30/730 II WIDE	1	0.048	12.800	618
7403	3F Manta AN 30/830 II WIDE	1	0.048	12.800	618
7404	3F Manta AN 30/730 MEDIUM	1	0.048	11.660	619
7405	3F Manta AN 30/830 MEDIUM	1	0.048	11.660	619
7406	3F Manta AN 30/730 II MEDIUM	1	0.048	12.800	619
7407	3F Manta AN 30/830 II MEDIUM	1	0.048	12.800	619
7408	3F Manta AN 30/730 FRONT	1	0.048	12.300	620
7409	3F Manta AN 30/830 FRONT	1	0.048	12.300	620
7410	3F Manta AN 30/730 II FRONT	1	0.048	12.800	620
7411	3F Manta AN 30/830 II FRONT	1	0.048	12.800	620
8357	3F 66 1 LED 6 II	1	0.015	4.700	624
8358	3F 66 2 LED 12 II	1	0.015	2.425	624
10048	P 250 28W LED LGS 596x596	1	0.023	5.830	116
10049	P 250 28W LED DALI LGS 596x596	1	0.023	5.800	116
10051	P 250 28W LED OP 596x596	1	0.023	5.590	116
10053	P 250 28W LED DALI OP 596x596	1	0.023	5.535	116
10591	3F Zeta DR UGR 2x18 LED L1194	1	0.008	3.500	82
10592	3F Zeta DR UGR 1x24 LED L1194	1	0.008	3.435	82
10593	3F Zeta DR UGR 2x18 LED DALI L1194	1	0.008	3.565	82
10594	3F Zeta DR UGR 1x24 LED DALI L1194	1	0.008	3.500	82
10598	3F Zeta DR UGR 2x9 LED L605	1	0.004	3.000	82
10599	3F Zeta DR UGR 1x12 LED L605	1	0.004	1.830	82
10600	3F Zeta DR UGR 2x9 LED DALI L605	1	0.004	3.000	82
10601	3F Zeta DR UGR 1x12 LED DALI L605	1	0.004	2.800	82
10605	3F Zeta L AS 40 LED L1489	1	0.010	3.595	72
10606	3F Zeta L AS 40 LED DALI L1489	1	0.010	4.000	72
10607	3F Zeta L AS 40 LED EP L1489	1	0.010	4.800	72
10612	3F Zeta DT UGR 2x22 LED L1783	1	0.012	5.640	86
10613	3F Zeta DT UGR 2x15 LED L1489	1	0.010	3.710	86
10614	3F Zeta DT UGR 2x12 LED L1194	1	0.008	3.750	86
10615	3F Zeta DT UGR 2x6 LED L605	1	0.004	2.015	86
10616	3F Zeta DT UGR 2x22 LED DALI L1783	1	0.012	4.800	86
10617	3F Zeta DT UGR 2x15 LED DALI L1489	1	0.010	3.710	86
10618	3F Zeta DT UGR 2x12 LED DALI L1194	1	0.008	3.500	86
10619	3F Zeta DT UGR 2x6 LED DALI L605	1	0.004	3.000	86
10620	3F Zeta DT UGR 2x22 LED EP L1783	1	0.012	5.400	86
10621	3F Zeta DT UGR 2x15 LED EP L1489	1	0.010	4.310	86
10622	3F Zeta DT UGR 2x12 LED EP L1194	1	0.008	3.500	86
10731	3F Travetta LED 1x18W OP L1290	1	0.018	4.485	56

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		Pcs	m³	Gross weight in kg	
10732	3F Travetta LED 1x22W OP L1590	1	0.022	5.555	56
10734	3F Travetta LED 2x18W OP L1290	1	0.018	4.685	56
10735	3F Travetta LED 2x22W OP L1590	1	0.022	5.660	56
10747	3F Travetta LED DI 2x15W 2MG L1590	1	0.022	5.480	60
10748	3F Travetta LED DI 2x22W 2MG L1590	1	0.022	5.410	60
10758	3F Travetta LED DI 2x15W/940 2MG L1590	1	0.022	5.200	60
10759	3F Travetta LED DI 2x22W/940 2MG L1590	1	0.022	5.410	60
10763	3F TRAV. LED 2X22W DALI DT8 TW 2MG L1590	1	0.022	5.800	64
10775	3F Travetta LED 1x40W OP L2200	1	0.030	7.000	56
10777	3F Travetta LED 2x40W OP L2200	1	0.030	8.365	56
10839	3F Zeta L UGR 40/940 LED L1489	1	0.010	3.665	71
10840	3F Zeta L UGR 30/940 LED L1194	1	0.008	3.040	71
10841	3F Zeta L UGR 40/940 LED DALI L1489	1	0.010	3.795	71
10842	3F Zeta L UGR 30/940 LED DALI L1194	1	0.008	3.500	71
10843	3F Zeta L UGR 40 LED EP L1489	1	0.010	4.235	71
10844	3F Zeta L UGR 30 LED EP L1194	1	0.008	4.300	71
10845	3F Zeta L UGR 40/940 LED EP L1489	1	0.010	4.800	71
10846	3F Zeta L UGR 30/940 LED EP L1194	1	0.008	4.300	71
10856	P 202x24W LED SP IP54 196x1231	1	0.023	5.060	112
10859	P 203x10W LED SP IP54 596x596	1	0.037	5.865	112
10860	P 204x10W LED SP IP54 596x596	1	0.037	6.115	112
10863	3F Zeta L UGR 40 LED L1489	1	0.010	3.760	71
10864	3F Zeta L UGR 30 LED L1194	1	0.008	3.005	71
10866	3F Zeta L UGR 40 LED DALI L1489	1	0.010	3.695	71
10867	3F Zeta L UGR 30 LED DALI L1194	1	0.008	3.145	71
10870	3F Zeta D 1x22 LED L1489	1	0.010	3.600	76
10871	3F Zeta D 1x18 LED L1194	1	0.008	3.010	76
10872	3F Zeta D 1x9 LED L605	1	0.004	1.650	76
10873	3F Zeta D 2x22 LED L1489	1	0.010	3.725	76
10874	3F Zeta D 2x18 LED L1194	1	0.008	3.020	76
10875	3F Zeta D 2x9 LED L605	1	0.004	1.635	76
10877	3F Zeta DR 1x22 LED L1489	1	0.010	3.615	80
10878	3F Zeta DR 1x18 LED L1194	1	0.008	3.055	80
10879	3F Zeta DR 1x9 LED L605	1	0.004	1.630	80
10880	3F Zeta DR 2x22 LED L1489	1	0.010	3.710	80
10881	3F Zeta DR 2x18 LED L1194	1	0.008	3.070	80
10882	3F Zeta DR 2x9 LED L605	1	0.004	1.960	80
10886	3F Zeta DR AS 1x30 LED L1489	1	0.010	4.255	81
10887	3F Zeta DR AS 2x22 LED L1489	1	0.010	4.280	81
10891	3F Zeta L 50 LED L1783	1	0.012	4.210	70
10892	3F Zeta L 40 LED L1489	1	0.010	3.590	70
10893	3F Zeta L 30 LED L1194	1	0.008	3.040	70
10894	3F Zeta L 15 LED L605	1	0.004	2.430	70
10961	3F Zeta D 1x22 LED DALI L1489	1	0.010	4.000	76
10962	3F Zeta D 1x18 LED DALI L1194	1	0.008	3.500	76
10964	3F Zeta D 2x22 LED DALI L1489	1	0.010	3.725	76
10965	3F Zeta D 2x18 LED DALI L1194	1	0.008	3.700	76
10967	3F Zeta DR 1x22 LED DALI L1489	1	0.010	3.615	80
10968	3F Zeta DR 1x18 LED DALI L1194	1	0.008	3.500	80
10970	3F Zeta DR 2x22 LED DALI L1489	1	0.010	3.760	80
10971	3F Zeta DR 2x18 LED DALI L1194	1	0.008	3.700	80
10973	3F Zeta DR AS 1x30 LED DALI L1489	1	0.010	4.500	81
10974	3F Zeta DR AS 2x22 LED DALI L1489	1	0.010	4.325	81
10975	3F Zeta L 50 LED DALI L1783	1	0.012	4.200	70
10976	3F Zeta L 40 LED DALI L1489	1	0.010	3.695	70
10977	3F Zeta L 30 LED DALI L1194	1	0.008	3.025	70
10980	3F Zeta D 1x22 LED EP L1489	1	0.010	4.800	76
10982	3F Zeta D 2x22 LED EP L1489	1	0.010	5.000	76
10984	3F Zeta DR 1x22 LED EP L1489	1	0.010	4.800	80
10986	3F Zeta DR 2x22 LED EP L1489	1	0.010	5.000	80

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		Pcs	m³	Gross weight in kg	
10987	3F Zeta L 50 LED EP L1783	1	0.012	6.000	70
10988	3F Zeta L 40 LED EP L1489	1	0.010	4.800	70
10997	3F Zeta DR UGR 2x22 LED L1783	1	0.012	4.800	82
10998	3F Zeta DR UGR 1x30 LED L1783	1	0.012	4.755	82
10999	3F Zeta DR UGR 2x22 LED DALI L1783	1	0.012	4.935	82
11000	3F Zeta DR UGR 1x30 LED DALI L1783	1	0.012	4.840	82
11001	3F Zeta DR UGR 2x22 LED EP L1783	1	0.012	5.225	82
11002	3F Zeta DR UGR 1x30 LED EP L1783	1	0.012	6.000	82
11003	3F Zeta DR UGR 2x22/940 LED L1783	1	0.012	5.500	82
11004	3F Zeta DR UGR 2x22/940 LED DALI L1783	1	0.012	5.500	82
11026	3F Zeta L UGR 50 LED L1783	1	0.012	5.400	71
11027	3F Zeta L UGR 50/940 LED L1783	1	0.012	5.400	71
11028	3F Zeta L UGR 50 LED DALI L1783	1	0.012	4.310	71
11029	3F Zeta L UGR 50/940 LED DALI L1783	1	0.012	5.400	71
11030	3F Zeta L UGR 50 LED EP L1783	1	0.012	6.000	71
11031	3F Zeta L UGR 50/940 LED EP L1783	1	0.012	6.000	71
11481	3F Travetta LED 1x22W DALI 2MG L1590	1	0.022	5.510	56
11484	3F Travetta LED 2x22W DALI 2MG L1590	1	0.022	5.670	56
11494	3F Travetta LED 1x18W DALI OP L1290	1	0.018	3.800	56
11495	3F Travetta LED 1x22W DALI OP L1590	1	0.022	4.800	56
11497	3F Travetta LED 2x18W DALI OP L1290	1	0.018	4.000	56
11498	3F Travetta LED 2x22W DALI OP L1590	1	0.022	5.000	56
11503	3F Travetta LED DI 2x15W DALI 2MG L1590	1	0.022	5.495	60
11504	3F Travetta LED DI 2x22W DALI 2MG L1590	1	0.022	5.465	60
11511	3F Travetta LED 1x40W DALI OP L2200	1	0.030	7.000	56
11513	3F Travetta LED 2x40W DALI OP L2200	1	0.030	7.500	56
11515	3F Travetta LED 1x30W/940 DALI 2MG L1590	1	0.022	5.510	56
11516	3F Travetta LED 2x22W/940 DALI 2MG L1590	1	0.022	5.670	56
11522	3F Trav. LED DI 2x15W DALI LS 2MG L1590	1	0.022	5.300	60
11523	3F Trav. LED DI 2x22W DALI LS 2MG L1590	1	0.022	5.450	60
11528	3F Travetta LED 1x24W LGS L1290	1	0.018	4.610	57
11530	3F Travetta LED 1x30W LGS L1590	1	0.022	5.570	57
11531	3F Travetta LED 2x18W LGS L1290	1	0.018	4.670	57
11533	3F Travetta LED 2x22W LGS L1590	1	0.022	5.675	57
11537	3F Travetta LED 1x24W DALI LGS L1290	1	0.018	4.585	57
11539	3F Travetta LED 1x30W DALI LGS L1590	1	0.022	5.560	57
11540	3F Travetta LED 2x18W DALI LGS L1290	1	0.018	4.710	57
11542	3F Travetta LED 2x22W DALI LGS L1590	1	0.022	5.740	57
11566	3F Travetta LED 1x24W/940 LGS L1290	1	0.018	3.800	57
11567	3F Travetta LED 1x30W/940 LGS L1590	1	0.022	5.570	57
11568	3F Travetta LED 2x18W/940 LGS L1290	1	0.018	4.000	57
11569	3F Travetta LED 2x22W/940 LGS L1590	1	0.022	5.675	57
11570	3F Travetta LED 1x24W/940 DALI LGS L1290	1	0.018	3.800	57
11571	3F Travetta LED 1x30W/940 DALI LGS L1590	1	0.022	4.800	57
11572	3F Travetta LED 2x18W/940 DALI LGS L1290	1	0.018	4.830	57
11573	3F Travetta LED 2x22W/940 DALI LGS L1590	1	0.022	5.740	57
11596	3F Trav. LED DI 2x15W/940 DALI 2MG L1590	1	0.022	5.495	60
11597	3F Trav. LED DI 2x22W/940 DALI 2MG L1590	1	0.022	5.465	60
11599	3F Travetta LED DI 2x22W LGS L1590	1	0.022	6.000	61
11600	3F Travetta LED DI 2x30W LGS L1590	1	0.022	6.000	61
11602	3F Travetta LED DI 2x22W/940 LGS L1590	1	0.022	6.000	61
11603	3F Travetta LED DI 2x30W/940 LGS L1590	1	0.022	6.000	61
11629	3F Travetta LED DI 2x22W DALI LGS L1590	1	0.022	6.000	61
11630	3F Travetta LED DI 2x30W DALI LGS L1590	1	0.022	6.000	61
11632	3F Trav. LED DI 2x22W/940 DALI LGS L1590	1	0.022	6.000	61
11633	3F Trav. LED DI 2x30W/940 DALI LGS L1590	1	0.022	6.000	61
11656	3F Travetta LED DI 2x18W LGS L1290	1	0.018	4.595	61
11657	3F Travetta LED DI 2x24W LGS L1290	1	0.018	4.655	61
11658	3F Travetta LED DI 2x18W/940 LGS L1290	1	0.018	4.400	61
11659	3F Travetta LED DI 2x24W/940 LGS L1290	1	0.018	4.400	61

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		Pcs	m³	Gross weight in kg	
11660	3F Travetta LED DI 2x18W DALI LGS L1290	1	0.018	4.695	61
11661	3F Travetta LED DI 2x24W DALI LGS L1290	1	0.018	4.400	61
11662	3F Trav. LED DI 2x18W/940 DALI LGS L1290	1	0.018	4.585	61
11663	3F Trav. LED DI 2x24W/940 DALI LGS L1290	1	0.018	4.625	61
12126	3F Diagon P 25W/830 SOFT UGR 596x596	1	0.016	6.875	92
12127	3F Diagon P 25W/830 DALI SOFT UGR 596x596	1	0.016	6.600	92
12128	3F Diagon P 25W/830 EP SOFT UGR 596x596	1	0.016	7.200	92
12130	3F Diagon P 25W/840 SOFT UGR 596x596	1	0.016	6.970	92
12131	3F Diagon P 25W/840 DALI SOFT UGR 596x596	1	0.016	6.950	92
12132	3F Diagon P 25W/840 EP SOFT UGR 596x596	1	0.016	7.200	92
12134	3F Diagon P 39W/930 SOFT UGR 596x596	1	0.016	6.900	92
12135	3F Diagon P 39W/930 DALI SOFT UGR 596x596	1	0.016	6.600	92
12136	3F Diagon P 39W/930 EP SOFT UGR 596x596	1	0.016	7.795	92
12138	3F Diagon P 39W/940 SOFT UGR 596x596	1	0.016	6.865	92
12139	3F Diagon P 39W/940 DALI SOFT UGR 596x596	1	0.016	6.945	92
12140	3F Diagon P 39W/940 EP SOFT UGR 596x596	1	0.016	7.670	92
12142	3F Diagon P 25W DT8 TW SOFT UGR 596x596	1	0.016	7.225	96
21244	L 323x10W LED SP 596x596	1	0.029	4.415	182
21245	L 324x10W LED SP 596x596	1	0.029	4.865	182
21256	L 323x10W LED DALI SP 596x596	1	0.029	5.015	182
21257	L 324x10W LED DALI SP 596x596	1	0.029	4.965	182
21262	L 323x10W LED EP SP 596x596	1	0.029	5.415	182
21263	L 324x10W LED EP SP 596x596	1	0.029	5.020	182
21287	L 322x18W LED SP 296x1196	1	0.037	5.295	183
21290	L 322x18W LED DALI SP 296x1196	1	0.037	5.510	183
21293	L 322x18W LED EP SP 296x1196	1	0.037	5.835	183
21580	L 323x10W LED LGS 596x596	1	0.029	5.190	184
21581	L 324x10W LED LGS 596x596	1	0.029	5.215	184
21586	L 323x10W LED DALI LGS 596x596	1	0.029	5.000	184
21587	L 324x10W LED DALI LGS 596x596	1	0.029	5.230	184
21589	L 323x10W LED EP LGS 596x596	1	0.029	5.900	184
21590	L 324x10W LED EP LGS 596x596	1	0.029	5.795	184
21600	L 322x18W LED LGS 296x1196	1	0.037	5.835	184
21603	L 322x18W LED DALI LGS 296x1196	1	0.037	5.770	184
21606	L 322x18W LED EP LGS 296x1196	1	0.037	5.900	184
21617	L 323x10W LED SP 599x599	1	0.029	4.360	182
21618	L 323x10W/940 LED SP 599x599	1	0.029	4.840	182
21619	L 323x10W LED DALI SP 599x599	1	0.029	4.840	183
21620	L 323x10W/940 LED DALI SP 599x599	1	0.029	4.840	183
21621	L 323x10W LED EP SP 599x599	1	0.029	4.905	183
21622	L 323x10W/940 LED EP SP 599x599	1	0.029	5.415	183
21623	L 324x10W LED LGS 599x599	1	0.029	4.840	184
21624	L 324x10W/940 LED LGS 599x599	1	0.029	4.840	184
21625	L 324x10W LED DALI LGS 599x599	1	0.029	4.925	184
21626	L 324x10W/940 LED DALI LGS 599x599	1	0.029	4.840	184
21627	L 324x10W LED EP LGS 599x599	1	0.029	5.120	184
21628	L 324x10W/940 LED EP LGS 599x599	1	0.029	5.415	184
21856	L 650 28W/840 DALI LGS 596x596	1	0.037	7.500	236
21857	L 650 42W/840 DALI LGS 596x596	1	0.037	7.500	236
21858	L 650 63W/840 DALI LGS 596x596	1	0.037	7.500	236
21859	L 650 28W/840 DALI LGS 599x599	1	0.041	7.015	236
21860	L 650 42W/840 DALI LGS 599x599	1	0.041	7.600	236
21861	L 650 63W/840 DALI LGS 599x599	1	0.041	7.600	236
21862	L 650 28W/840 DALI EP LGS 596x596	1	0.037	8.100	236
21863	L 650 42W/840 DALI EP LGS 596x596	1	0.037	8.100	236
21864	L 650 63W/840 DALI EP LGS 596x596	1	0.037	8.100	236
21865	L 650 28W/840 DALI EP LGS 599x599	1	0.041	8.200	236
21866	L 650 42W/840 DALI EP LGS 599x599	1	0.041	8.200	236
21867	L 650 63W/840 DALI EP LGS 599x599	1	0.041	8.200	236
21868	L 650 35W/940 DALI LGS 596x596	1	0.037	7.500	236

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		Pcs	m³	Gross weight in kg	
21869	L 650 52W/940 DALI LGS 596x596	1	0.037	6.485	236
21870	L 650 75W/940 DALI LGS 596x596	1	0.037	7.500	236
21871	L 650 35W/940 DALI LGS 599x599	1	0.041	7.700	236
21872	L 650 52W/940 DALI LGS 599x599	1	0.041	7.700	236
21873	L 650 75W/940 DALI LGS 599x599	1	0.041	7.700	236
21874	L 650 35W/940 DALI EP LGS 596x596	1	0.037	8.100	236
21875	L 650 52W/940 DALI EP LGS 596x596	1	0.037	8.100	236
21876	L 650 75W/940 DALI EP LGS 596x596	1	0.037	8.100	236
21877	L 650 35W/940 DALI EP LGS 599x599	1	0.041	8.200	236
21878	L 650 52W/940 DALI EP LGS 599x599	1	0.041	8.200	236
21879	L 650 75W/940 DALI EP LGS 599x599	1	0.041	8.200	236
21880	L 650 28W/840 DALI VSS 596x596	1	0.037	10.200	237
21881	L 650 42W/840 DALI VSS 596x596	1	0.037	10.200	237
21882	L 650 63W/840 DALI VSS 596x596	1	0.037	10.200	237
21883	L 650 28W/840 DALI VSS 599x599	1	0.041	10.300	237
21884	L 650 42W/840 DALI VSS 599x599	1	0.041	10.865	237
21885	L 650 63W/840 DALI VSS 599x599	1	0.041	11.085	237
21886	L 650 28W/840 DALI EP VSS 596x596	1	0.037	10.800	237
21887	L 650 42W/840 DALI EP VSS 596x596	1	0.037	11.000	237
21888	L 650 63W/840 DALI EP VSS 596x596	1	0.037	10.800	237
21889	L 650 28W/840 DALI EP VSS 599x599	1	0.041	10.900	237
21890	L 650 42W/840 DALI EP VSS 599x599	1	0.041	10.900	237
21891	L 650 63W/840 DALI EP VSS 599x599	1	0.041	10.900	237
21892	L 650 35W/940 DALI VSS 596x596	1	0.037	10.200	237
21893	L 650 52W/940 DALI VSS 596x596	1	0.037	10.435	237
21894	L 650 75W/940 DALI VSS 596x596	1	0.037	10.200	237
21895	L 650 35W/940 DALI VSS 599x599	1	0.041	10.300	237
21896	L 650 52W/940 DALI VSS 599x599	1	0.041	11.160	237
21897	L 650 75W/940 DALI VSS 599x599	1	0.041	11.175	237
21898	L 650 35W/940 DALI EP VSS 596x596	1	0.037	10.800	237
21899	L 650 52W/940 DALI EP VSS 596x596	1	0.037	10.800	237
21900	L 650 75W/940 DALI EP VSS 596x596	1	0.037	10.800	237
21901	L 650 35W/940 DALI EP VSS 599x599	1	0.041	10.900	237
21902	L 650 52W/940 DALI EP VSS 599x599	1	0.041	10.900	237
21903	L 650 75W/940 DALI EP VSS 599x599	1	0.041	10.900	237
21922	L 490 12W LED DALI GSP 125x625	1	0.013	2.100	218
21923	L 490 24W LED DALI GSP 125x1225	1	0.024	3.000	218
21924	L 490 30W LED DALI GSP 125x1525	1	0.030	3.645	218
21925	L 490 12W LED DALI EP GSP 125x625	1	0.013	2.700	218
21926	L 490 24W LED DALI EP GSP 125x1225	1	0.024	3.600	218
21927	L 490 30W LED DALI EP GSP 125x1525	1	0.030	4.245	218
21934	L 490 12W LED DALI OP 125x625	1	0.013	2.100	218
21935	L 490 24W LED DALI OP 125x1225	1	0.024	3.000	218
21936	L 490 30W LED DALI OP 125x1525	1	0.030	3.645	218
21937	L 490 12W LED DALI EP OP 125x625	1	0.013	2.700	218
21938	L 490 24W LED DALI EP OP 125x1225	1	0.024	3.600	218
21939	L 490 30W LED DALI EP OP 125x1525	1	0.030	4.245	218
22230	3F Six R 85/840 WIDE 596x596	1	0.029	5.280	144
22231	3F Six R 70/840 WIDE 596x596	1	0.029	5.150	144
22232	3F Six R 60/840 WIDE 596x596	1	0.029	5.075	144
22233	3F Six R 85/840 DALI WIDE 596x596	1	0.029	5.440	144
22234	3F Six R 70/840 DALI WIDE 596x596	1	0.029	5.395	144
22235	3F Six R 60/840 DALI WIDE 596x596	1	0.029	5.150	144
22237	3F Six R 85/840 MEDIUM 596x596	1	0.029	5.150	144
22238	3F Six R 70/840 MEDIUM 596x596	1	0.029	5.150	144
22239	3F Six R 60/840 MEDIUM 596x596	1	0.029	5.150	144
22240	3F Six R 85/840 DALI MEDIUM 596x596	1	0.029	5.150	144
22241	3F Six R 70/840 DALI MEDIUM 596x596	1	0.029	5.150	144
22242	3F Six R 60/840 DALI MEDIUM 596x596	1	0.029	5.150	144
22244	3F Six R 40/840 UGR 596x596	1	0.029	5.150	145

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		Pcs	m³	Gross weight in kg	
22245	3F Six R 40/840 DALI UGR 596x596	1	0.029	5.150	145
22701	L 323x10W/940 LED SP 596x596	1	0.029	4.870	182
22702	L 324x10W/940 LED SP 596x596	1	0.029	4.380	182
22703	L 323x10W/940 LED DALI SP 596x596	1	0.029	4.905	182
22704	L 324x10W/940 LED DALI SP 596x596	1	0.029	4.545	182
22705	L 323x10W/940 LED EP SP 596x596	1	0.029	5.900	182
22706	L 324x10W/940 LED EP SP 596x596	1	0.029	6.100	182
22709	L 324x10W/940 LED LGS 596x596	1	0.029	5.320	184
22710	L 324x10W/940 LED DALI LGS 596x596	1	0.029	4.765	184
22711	L 324x10W/940 LED EP LGS 596x596	1	0.029	6.100	184
22716	L 323x10W/940 LED 2S 596x596	1	0.029	4.850	181
22717	L 323x10W/940 LED EP 2S 596x596	1	0.029	5.150	181
22718	L 323x10W/940 LED DALI 2S 596x596	1	0.029	4.725	181
22722	L 323x10W/940 LED 2MG 596x596	1	0.029	4.610	180
22723	L 323x10W/940 LED EP 2MG 596x596	1	0.029	5.150	180
22724	L 323x10W/940 LED DALI 2MG 596x596	1	0.029	4.185	180
22782	L 362x12W LED OCW 296x1196	1	0.014	5.530	214
22783	L 362x12W LED DALI OCW 296x1196	1	0.014	5.625	214
22786	L 362x12W LED OCW 308x1246	1	0.015	6.800	214
22787	L 362x12W LED DALI OCW 308x1246	1	0.015	7.000	214
22790	3FLP6060UGR-830	1	0.014	2.605	150
22791	3FLP6060UGR-840	1	0.014	2.810	150
22792	3FLP6060UGR-930	1	0.014	2.640	150
22793	3FLP6060UGR-940	1	0.014	2.615	150
22794	3FLP30120UGR-940	1	0.015	2.765	150
22796	3FLP30120UGR-840	1	0.015	2.765	150
22821	L 600 28W/840 DALI LGS 596x596	1	0.037	5.805	228
22822	L 600 42W/840 DALI LGS 596x596	1	0.037	5.820	228
22823	L 600 63W/840 DALI LGS 596x596	1	0.037	5.875	228
22824	L 600 28W/840 DALI LGS 599x599	1	0.041	5.600	228
22825	L 600 42W/840 DALI LGS 599x599	1	0.041	5.600	228
22826	L 600 63W/840 DALI LGS 599x599	1	0.041	5.600	228
22827	L 600 28W/840 DALI LGS 621x621	1	0.041	5.700	229
22828	L 600 42W/840 DALI LGS 621x621	1	0.041	5.700	229
22829	L 600 63W/840 DALI LGS 621x621	1	0.041	5.700	229
22830	L 600 28W/840 DALI EP LGS 596x596	1	0.037	6.100	228
22831	L 600 42W/840 DALI EP LGS 596x596	1	0.037	6.100	228
22832	L 600 63W/840 DALI EP LGS 596x596	1	0.037	6.800	228
22833	L 600 28W/840 DALI EP LGS 599x599	1	0.041	6.100	228
22834	L 600 42W/840 DALI EP LGS 599x599	1	0.041	6.100	228
22835	L 600 63W/840 DALI EP LGS 599x599	1	0.041	6.300	228
22836	L 600 28W/840 DALI EP LGS 621x621	1	0.041	6.200	229
22837	L 600 42W/840 DALI EP LGS 621x621	1	0.041	6.200	229
22838	L 600 63W/840 DALI EP LGS 621x621	1	0.041	6.400	229
22839	L 600 35W/940 DALI LGS 596x596	1	0.037	5.600	228
22840	L 600 52W/940 DALI LGS 596x596	1	0.037	5.845	228
22841	L 600 75W/940 DALI LGS 596x596	1	0.037	5.600	228
22842	L 600 35W/940 DALI LGS 599x599	1	0.041	5.865	228
22843	L 600 52W/940 DALI LGS 599x599	1	0.041	5.600	228
22844	L 600 75W/940 DALI LGS 599x599	1	0.041	5.920	228
22845	L 600 35W/940 DALI LGS 621x621	1	0.041	5.700	229
22846	L 600 52W/940 DALI LGS 621x621	1	0.041	5.700	229
22847	L 600 75W/940 DALI LGS 621x621	1	0.041	5.700	229
22848	L 600 35W/940 DALI EP LGS 596x596	1	0.037	6.100	228
22849	L 600 52W/940 DALI EP LGS 596x596	1	0.037	6.100	228
22850	L 600 75W/940 DALI EP LGS 596x596	1	0.037	6.300	228
22851	L 600 35W/940 DALI EP LGS 599x599	1	0.041	5.945	228
22852	L 600 52W/940 DALI EP LGS 599x599	1	0.041	6.100	228
22853	L 600 75W/940 DALI EP LGS 599x599	1	0.041	6.300	228
22854	L 600 35W/940 DALI EP LGS 621x621	1	0.041	6.200	229

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
22855	L 600 52W/940 DALI EP LGS 621x621	1	0.041	6.200	229
22856	L 600 75W/940 DALI EP LGS 621x621	1	0.041	6.400	229
22857	L 600 28W/840 DALI VS 596x596	1	0.037	7.575	230
22858	L 600 42W/840 DALI VS 596x596	1	0.037	7.600	230
22859	L 600 63W/840 DALI VS 596x596	1	0.037	7.600	230
22860	L 600 28W/840 DALI VS 599x599	1	0.041	7.700	230
22861	L 600 42W/840 DALI VS 599x599	1	0.041	7.600	230
22862	L 600 63W/840 DALI VS 599x599	1	0.041	7.600	230
22863	L 600 28W/840 DALI VS 621x621	1	0.041	7.700	231
22864	L 600 42W/840 DALI VS 621x621	1	0.041	7.835	231
22865	L 600 63W/840 DALI VS 621x621	1	0.041	7.700	231
22866	L 600 28W/840 DALI EP VS 596x596	1	0.037	8.100	230
22867	L 600 42W/840 DALI EP VS 596x596	1	0.037	8.100	230
22868	L 600 63W/840 DALI EP VS 596x596	1	0.037	8.300	230
22869	L 600 28W/840 DALI EP VS 599x599	1	0.041	8.100	230
22870	L 600 42W/840 DALI EP VS 599x599	1	0.041	8.100	230
22871	L 600 63W/840 DALI EP VS 599x599	1	0.041	8.300	230
22872	L 600 28W/840 DALI EP VS 621x621	1	0.041	8.200	231
22873	L 600 42W/840 DALI EP VS 621x621	1	0.041	8.200	231
22874	L 600 63W/840 DALI EP VS 621x621	1	0.041	8.400	231
22875	L 600 35W/940 DALI VS 596x596	1	0.037	7.600	230
22876	L 600 52W/940 DALI VS 596x596	1	0.037	7.600	230
22877	L 600 75W/940 DALI VS 596x596	1	0.037	7.600	230
22878	L 600 35W/940 DALI VS 599x599	1	0.041	7.600	230
22879	L 600 52W/940 DALI VS 599x599	1	0.041	7.600	230
22880	L 600 75W/940 DALI VS 599x599	1	0.041	7.735	230
22881	L 600 35W/940 DALI VS 621x621	1	0.041	7.700	231
22882	L 600 52W/940 DALI VS 621x621	1	0.041	7.770	231
22883	L 600 75W/940 DALI VS 621x621	1	0.041	7.700	231
22884	L 600 35W/940 DALI EP VS 596x596	1	0.037	8.100	230
22885	L 600 52W/940 DALI EP VS 596x596	1	0.037	8.100	230
22886	L 600 75W/940 DALI EP VS 596x596	1	0.037	8.300	230
22887	L 600 35W/940 DALI EP VS 599x599	1	0.041	8.100	230
22888	L 600 52W/940 DALI EP VS 599x599	1	0.041	8.100	230
22889	L 600 75W/940 DALI EP VS 599x599	1	0.041	8.300	230
22890	L 600 35W/940 DALI EP VS 621x621	1	0.041	8.200	231
22891	L 600 52W/940 DALI EP VS 621x621	1	0.041	8.200	231
22892	L 600 75W/940 DALI EP VS 621x621	1	0.041	8.400	231
22893	L 600 35W/940 DALI VSS 596x596	1	0.037	7.600	232
22894	L 600 52W/940 DALI VSS 596x596	1	0.037	7.600	232
22895	L 600 75W/940 DALI VSS 596x596	1	0.037	10.175	232
22899	L 600 35W/940 DALI VSS 621x621	1	0.041	7.700	232
22900	L 600 52W/940 DALI VSS 621x621	1	0.041	10.345	232
22901	L 600 75W/940 DALI VSS 621x621	1	0.041	7.700	232
22902	L 600 35W/940 DALI EP VSS 596x596	1	0.037	8.100	232
22903	L 600 52W/940 DALI EP VSS 596x596	1	0.037	8.100	232
22904	L 600 75W/940 DALI EP VSS 596x596	1	0.037	8.300	232
22908	L 600 35W/940 DALI EP VSS 621x621	1	0.041	8.200	232
22909	L 600 52W/940 DALI EP VSS 621x621	1	0.041	8.200	232
22910	L 600 75W/940 DALI EP VSS 621x621	1	0.041	8.400	232
23002	3F Diagon 25W/830 596x596	1	0.014	4.100	164
23006	3F Diagon 25W/830 DALI 596x596	1	0.014	4.070	164
23010	3F Diagon 25W/830 EP 596x596	1	0.014	4.900	164
23024	3F Diagon 19W/840 596x596	1	0.014	4.080	164
23025	3F Diagon 15W/840 596x596	1	0.014	4.075	164
23026	3F Diagon 25W/840 596x596	1	0.014	4.085	164
23027	3F Diagon 39W/840 596x596	1	0.014	4.045	164
23028	3F Diagon 19W/840 DALI 596x596	1	0.014	3.995	164
23029	3F Diagon 15W/840 DALI 596x596	1	0.014	4.040	164
23030	3F Diagon 25W/840 DALI 596x596	1	0.014	4.060	164

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
23031	3F Diagon 39W/840 DALI 596x596	1	0.014	4.075	164
23032	3F Diagon 19W/840 EP 596x596	1	0.014	4.900	164
23033	3F Diagon 15W/840 EP 596x596	1	0.014	4.760	164
23034	3F Diagon 25W/840 EP 596x596	1	0.014	4.900	164
23035	3F Diagon 39W/840 EP 596x596	1	0.014	4.900	164
23098	3F Diagon 25W/930 596x596	1	0.014	4.100	164
23102	3F Diagon 25W/930 DALI 596x596	1	0.014	3.975	164
23106	3F Diagon 25W/930 EP 596x596	1	0.014	4.865	164
23122	3F Diagon 25W/940 596x596	1	0.014	3.980	164
23123	3F Diagon 39W/940 596x596	1	0.014	4.080	164
23126	3F Diagon 25W/940 DALI 596x596	1	0.014	3.955	164
23127	3F Diagon 39W/940 DALI 596x596	1	0.014	4.060	164
23130	3F Diagon 25W/940 EP 596x596	1	0.014	4.835	164
23131	3F Diagon 39W/940 EP 596x596	1	0.014	4.835	164
23386	3F Diagon 25W/830 621x621	1	0.016	4.150	165
23390	3F Diagon 25W/830 DALI 621x621	1	0.016	4.300	165
23394	3F Diagon 25W/830 EP 621x621	1	0.016	5.100	165
23408	3F Diagon 19W/840 621x621	1	0.016	4.300	165
23409	3F Diagon 15W/840 621x621	1	0.016	4.300	165
23410	3F Diagon 25W/840 621x621	1	0.016	4.280	165
23411	3F Diagon 39W/840 621x621	1	0.016	4.300	165
23412	3F Diagon 19W/840 DALI 621x621	1	0.016	4.300	165
23413	3F Diagon 15W/840 DALI 621x621	1	0.016	4.300	165
23414	3F Diagon 25W/840 DALI 621x621	1	0.016	4.300	165
23415	3F Diagon 39W/840 DALI 621x621	1	0.016	4.275	165
23416	3F Diagon 19W/840 EP 621x621	1	0.016	5.100	165
23417	3F Diagon 15W/840 EP 621x621	1	0.016	5.100	165
23418	3F Diagon 25W/840 EP 621x621	1	0.016	5.100	165
23419	3F Diagon 39W/840 EP 621x621	1	0.016	5.100	165
23482	3F Diagon 25W/930 621x621	1	0.016	4.230	165
23486	3F Diagon 25W/930 DALI 621x621	1	0.016	4.285	165
23490	3F Diagon 25W/930 EP 621x621	1	0.016	5.100	165
23506	3F Diagon 25W/940 621x621	1	0.016	4.300	165
23507	3F Diagon 39W/940 621x621	1	0.016	4.300	165
23510	3F Diagon 25W/940 DALI 621x621	1	0.016	4.300	165
23511	3F Diagon 39W/940 DALI 621x621	1	0.016	4.300	165
23514	3F Diagon 25W/940 EP 621x621	1	0.016	5.100	165
23515	3F Diagon 39W/940 EP 621x621	1	0.016	5.100	165
23785	3F Diagon FCL 19W/840 599x599	1	0.037	4.685	174
23786	3F Diagon FCL 25W/840 599x599	1	0.037	4.545	174
23787	3F Diagon FCL 19W/840 DALI 599x599	1	0.037	4.685	174
23788	3F Diagon FCL 25W/840 DALI 599x599	1	0.037	4.550	174
23789	3F Diagon FCL 19W/840 EP 599x599	1	0.037	5.300	174
23790	3F Diagon FCL 25W/840 EP 599x599	1	0.037	5.300	174
23795	3F Diagon FCH 19W/840 599x599	1	0.037	4.785	174
23796	3F Diagon FCH 25W/840 599x599	1	0.037	5.275	174
23797	3F Diagon FCH 19W/840 DALI 599x599	1	0.037	4.840	174
23798	3F Diagon FCH 25W/840 DALI 599x599	1	0.037	4.815	174
23799	3F Diagon FCH 19W/840 EP 599x599	1	0.037	5.300	174
23800	3F Diagon FCH 25W/840 EP 599x599	1	0.037	5.300	174
23812	3F Diagon 25W/840 SOFT UGR 596x596	1	0.014	4.085	166
23813	3F Diagon 25W/840 EP SOFT UGR 596x596	1	0.014	4.900	166
23814	3F Diagon 25W/840 DALI SOFT UGR 596x596	1	0.014	4.100	166
23816	3F Diagon 25W DT8 TW SOFT UGR 596x596	1	0.014	4.105	170
23819	3F Diagon 25W/840 SOFT UGR 621x621	1	0.016	4.230	166
23820	3F Diagon 25W/840 EP SOFT UGR 621x621	1	0.016	5.100	166
23821	3F Diagon 25W/840 DALI SOFT UGR 621x621	1	0.016	4.300	166
23823	3F Diagon 25W DT8 TW SOFT UGR 621x621	1	0.016	4.300	170
23826	3F Diagon 25W/830 SOFT UGR 596x596	1	0.014	3.980	166
23827	3F Diagon 25W/830 EP SOFT UGR 596x596	1	0.014	4.655	166

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
23828	3F Diagon 25W/830 DALI SOFT UGR 596x596	1	0.014	4.105	166
23830	3F Diagon 25W/830 SOFT UGR 621x621	1	0.016	4.265	166
23831	3F Diagon 25W/830 EP SOFT UGR 621x621	1	0.016	5.100	166
23832	3F Diagon 25W/830 DALI SOFT UGR 621x621	1	0.016	4.300	166
23834	3F Diagon 39W/940 SOFT UGR 596x596	1	0.014	4.090	166
23835	3F Diagon 39W/940 EP SOFT UGR 596x596	1	0.014	4.855	166
23836	3F Diagon 39W/940 DALI SOFT UGR 596x596	1	0.014	4.030	166
23838	3F Diagon 39W/940 SOFT UGR 621x621	1	0.016	4.300	166
23839	3F Diagon 39W/940 EP SOFT UGR 621x621	1	0.016	5.100	166
23840	3F Diagon 39W/940 DALI SOFT UGR 621x621	1	0.016	4.300	166
23842	3F Diagon 39W/930 SOFT UGR 596x596	1	0.014	4.100	166
23843	3F Diagon 39W/930 EP SOFT UGR 596x596	1	0.014	4.900	166
23844	3F Diagon 39W/930 DALI SOFT UGR 596x596	1	0.014	3.960	166
23846	3F Diagon 39W/930 SOFT UGR 621x621	1	0.016	4.300	166
23847	3F Diagon 39W/930 EP SOFT UGR 621x621	1	0.016	5.100	166
23848	3F Diagon 39W/930 DALI SOFT UGR 621x621	1	0.016	4.300	166
23853	3F Diagon FP 25W/840 SOFT UGR 599x599	1	0.037	4.500	175
23854	3F Diagon FP 25W/840 EP SOFT UGR 599x599	1	0.037	5.300	175
23855	3F Diagon FP 25W/840 DALI SOFT UGR 599x599	1	0.037	4.665	175
23857	L 340 25W/840 LGS 596x596	1	0.064	4.950	192
23858	L 340 38W/840 LGS 596x596	1	0.064	4.950	192
23859	L 340 45W/840 LGS 596x596	1	0.064	4.950	192
23860	L 340 25W/840 LGS 621x621	1	0.034	5.060	192
23861	L 340 38W/840 LGS 621x621	1	0.034	5.100	192
23862	L 340 45W/840 LGS 621x621	1	0.034	5.355	192
23863	L 340 25W/840 DALI LGS 596x596	1	0.064	4.950	192
23864	L 340 38W/840 DALI LGS 596x596	1	0.064	4.950	192
23865	L 340 45W/840 DALI LGS 596x596	1	0.064	4.950	192
23866	L 340 25W/840 DALI LGS 621x621	1	0.034	5.180	192
23867	L 340 38W/840 DALI LGS 621x621	1	0.034	5.100	192
23868	L 340 45W/840 DALI LGS 621x621	1	0.034	5.100	192
23869	L 340 25W/840 EP LGS 596x596	1	0.064	5.750	192
23870	L 340 38W/840 EP LGS 596x596	1	0.064	5.750	192
23871	L 340 45W/840 EP LGS 596x596	1	0.064	5.750	192
23872	L 340 25W/840 EP LGS 621x621	1	0.034	5.900	193
23873	L 340 38W/840 EP LGS 621x621	1	0.034	5.900	193
23874	L 340 45W/840 EP LGS 621x621	1	0.034	5.900	193
23881	L 340 29W/940 LGS 596x596	1	0.064	4.950	192
23882	L 340 45W/940 LGS 596x596	1	0.064	4.950	192
23883	L 340 29W/940 LGS 621x621	1	0.034	5.100	192
23884	L 340 45W/940 LGS 621x621	1	0.034	5.355	192
23885	L 340 29W/940 DALI LGS 596x596	1	0.064	4.950	192
23886	L 340 45W/940 DALI LGS 596x596	1	0.064	4.950	192
23887	L 340 29W/940 DALI LGS 621x621	1	0.034	5.100	192
23888	L 340 45W/940 DALI LGS 621x621	1	0.034	5.100	192
23889	L 340 29W/940 EP LGS 596x596	1	0.064	5.750	192
23890	L 340 45W/940 EP LGS 596x596	1	0.064	5.750	192
23891	L 340 29W/940 EP LGS 621x621	1	0.034	5.900	193
23892	L 340 45W/940 EP LGS 621x621	1	0.034	5.900	193
23897	L 340 25W/840 VS IP65V 596x596	1	0.064	6.950	196
23898	L 340 38W/840 VS IP65V 596x596	1	0.064	6.950	196
23899	L 340 45W/840 VS IP65V 596x596	1	0.064	6.950	196
23900	L 340 25W/840 VS IP65V 621x621	1	0.034	7.100	196
23901	L 340 38W/840 VS IP65V 621x621	1	0.034	7.100	196
23902	L 340 45W/840 VS IP65V 621x621	1	0.034	7.100	196
23903	L 340 25W/840 DALI VS IP65V 596x596	1	0.064	6.950	196
23904	L 340 38W/840 DALI VS IP65V 596x596	1	0.064	6.950	196
23905	L 340 45W/840 DALI VS IP65V 596x596	1	0.064	6.950	196
23906	L 340 25W/840 DALI VS IP65V 621x621	1	0.034	7.100	196
23907	L 340 38W/840 DALI VS IP65V 621x621	1	0.034	7.100	196

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
23908	L 340 45W/840 DALI VS IP65V 621x621	1	0.034	7.100	196
23909	L 340 25W/840 EP VS IP65V 596x596	1	0.064	7.750	196
23910	L 340 38W/840 EP VS IP65V 596x596	1	0.064	7.750	196
23911	L 340 45W/840 EP VS IP65V 596x596	1	0.064	7.750	196
23912	L 340 25W/840 EP VS IP65V 621x621	1	0.034	7.900	197
23913	L 340 38W/840 EP VS IP65V 621x621	1	0.034	7.900	197
23914	L 340 45W/840 EP VS IP65V 621x621	1	0.034	7.900	197
23921	L 340 29W/940 VS IP65V 596x596	1	0.064	6.950	196
23922	L 340 45W/940 VS IP65V 596x596	1	0.064	6.950	196
23923	L 340 29W/940 VS IP65V 621x621	1	0.034	7.100	196
23924	L 340 45W/940 VS IP65V 621x621	1	0.034	7.100	196
23925	L 340 29W/940 DALI VS IP65V 596x596	1	0.064	6.950	196
23926	L 340 45W/940 DALI VS IP65V 596x596	1	0.064	6.950	196
23927	L 340 29W/940 DALI VS IP65V 621x621	1	0.034	7.100	196
23928	L 340 45W/940 DALI VS IP65V 621x621	1	0.034	7.100	196
23929	L 340 29W/940 EP VS IP65V 596x596	1	0.064	7.750	196
23930	L 340 45W/940 EP VS IP65V 596x596	1	0.064	7.750	196
23931	L 340 29W/940 EP VS IP65V 621x621	1	0.034	7.900	197
23932	L 340 45W/940 EP VS IP65V 621x621	1	0.034	7.900	197
23937	L 343x10W/840 SP 596x596	1	0.064	4.240	200
23938	L 343x10W/840 DALI SP 596x596	1	0.064	4.275	200
23939	L 343x10W/840 EP SP 596x596	1	0.064	4.740	200
23940	L 343x12W/940 SP 596x596	1	0.064	4.400	200
23941	L 343x12W/940 DALI SP 596x596	1	0.064	4.275	200
23942	L 343x12W/940 EP SP 596x596	1	0.064	5.700	200
23953	L 340 25W DALI DT8 TW LGS 596x596	1	0.064	5.100	204
23954	L 340 25W DALI DT8 TW LGS 621x621	1	0.034	5.380	204
23957	L 343x10W/840 SP 621x621	1	0.034	5.050	200
23958	L 343x10W/840 DALI SP 621x621	1	0.034	5.050	200
23959	L 343x10W/840 EP SP 621x621	1	0.034	5.650	200
23960	L 343x12W/940 SP 621x621	1	0.034	5.050	200
23961	L 343x12W/940 DALI SP 621x621	1	0.034	5.050	200
23962	L 343x12W/940 EP SP 621x621	1	0.034	5.650	200
23972	L 340 25W/840 LGS IP65V 596x596	1	0.064	5.000	194
23973	L 340 38W/840 LGS IP65V 596x596	1	0.064	5.000	194
23974	L 340 45W/840 LGS IP65V 596x596	1	0.064	5.000	194
23975	L 340 25W/840 LGS IP65V 621x621	1	0.034	5.250	194
23976	L 340 38W/840 LGS IP65V 621x621	1	0.034	5.100	194
23977	L 340 45W/840 LGS IP65V 621x621	1	0.034	5.445	194
23978	L 340 25W/840 DALI LGS IP65V 596x596	1	0.064	5.000	194
23979	L 340 38W/840 DALI LGS IP65V 596x596	1	0.064	5.000	194
23980	L 340 45W/840 DALI LGS IP65V 596x596	1	0.064	5.000	194
23981	L 340 25W/840 DALI LGS IP65V 621x621	1	0.034	5.100	194
23982	L 340 38W/840 DALI LGS IP65V 621x621	1	0.034	5.100	194
23983	L 340 45W/840 DALI LGS IP65V 621x621	1	0.034	5.100	194
23984	L 340 25W/840 EP LGS IP65V 596x596	1	0.064	5.800	194
23985	L 340 38W/840 EP LGS IP65V 596x596	1	0.064	5.800	194
23986	L 340 45W/840 EP LGS IP65V 596x596	1	0.064	5.800	194
23987	L 340 25W/840 EP LGS IP65V 621x621	1	0.034	5.900	195
23988	L 340 38W/840 EP LGS IP65V 621x621	1	0.034	5.900	195
23989	L 340 45W/840 EP LGS IP65V 621x621	1	0.034	5.900	195
23996	L 340 29W/940 LGS IP65V 596x596	1	0.064	5.000	194
23997	L 340 45W/940 LGS IP65V 596x596	1	0.064	5.000	194
23998	L 340 29W/940 LGS IP65V 621x621	1	0.034	5.100	194
23999	L 340 45W/940 LGS IP65V 621x621	1	0.034	5.100	194
24000	L 340 29W/940 DALI LGS IP65V 596x596	1	0.064	5.000	194
24001	L 340 45W/940 DALI LGS IP65V 596x596	1	0.064	5.000	194
24002	L 340 29W/940 DALI LGS IP65V 621x621	1	0.034	5.100	194
24003	L 340 45W/940 DALI LGS IP65V 621x621	1	0.034	5.100	194
24004	L 340 29W/940 EP LGS IP65V 596x596	1	0.064	5.800	194

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
24005	L 340 45W/940 EP LGS IP65V 596x596	1	0.064	5.800	194
24006	L 340 29W/940 EP LGS IP65V 621x621	1	0.034	5.900	195
24007	L 340 45W/940 EP LGS IP65V 621x621	1	0.034	5.900	195
24048	3F Diagon FP 19W/840 599x599	1	0.037	4.720	175
24049	3F Diagon FP 25W/840 599x599	1	0.037	4.620	175
24050	3F Diagon FP 19W/840 DALI 599x599	1	0.037	4.500	175
24051	3F Diagon FP 25W/840 DALI 599x599	1	0.037	4.615	175
24052	3F Diagon FP 19W/840 EP 599x599	1	0.037	5.300	175
24053	3F Diagon FP 25W/840 EP 599x599	1	0.037	5.300	175
28826	L 323x10W LED 2S 596x596	1	0.029	4.730	181
28828	L 322x18W LED 2S 296x1196	1	0.037	5.155	181
28829	L 323x10W LED EP 2S 596x596	1	0.029	5.250	181
28831	L 322x18W LED EP 2S 296x1196	1	0.037	6.000	181
28838	L 323x10W LED DALI 2S 596x596	1	0.029	4.770	181
28840	L 322x18W LED DALI 2S 296x1196	1	0.037	5.200	181
28844	L 323x10W LED 2MG 596x596	1	0.029	4.710	180
28846	L 322x18W LED 2MG 296x1196	1	0.037	5.485	180
28847	L 323x10W LED EP 2MG 596x596	1	0.029	5.245	180
28849	L 322x18W LED EP 2MG 296x1196	1	0.037	6.000	180
28856	L 323x10W LED DALI 2MG 596x596	1	0.029	4.775	180
28858	L 322x18W LED DALI 2MG 296x1196	1	0.037	5.200	180
30001	3F Reno 100 WH 1000/840 SPOT	1	0.004	0.720	254
30005	3F Reno 100 WH 1000/930 SPOT	1	0.004	0.735	254
30009	3F Reno 100 WH 2000/840 SPOT	1	0.004	0.730	254
30013	3F Reno 100 WH 2000/930 SPOT	1	0.004	0.735	254
30018	3F Reno 100 WH 1000/840 EP SPOT	1	0.004	1.500	254
30022	3F Reno 100 WH 1000/930 EP SPOT	1	0.004	1.500	254
30026	3F Reno 100 WH 2000/840 EP SPOT	1	0.004	1.500	254
30030	3F Reno 100 WH 2000/930 EP SPOT	1	0.004	1.500	254
30035	3F Reno 100 WH 1000/840 DALI SPOT	1	0.004	0.700	254
30039	3F Reno 100 WH 1000/930 DALI SPOT	1	0.004	0.740	254
30043	3F Reno 100 WH 2000/840 DALI SPOT	1	0.004	0.775	254
30047	3F Reno 100 WH 2000/930 DALI SPOT	1	0.004	0.805	254
30069	3F Reno 100 WH 1000/840 WIDE	1	0.004	0.720	250
30073	3F Reno 100 WH 1000/930 WIDE	1	0.004	0.720	250
30077	3F Reno 100 WH 2000/840 WIDE	1	0.004	0.715	250
30081	3F Reno 100 WH 2000/930 WIDE	1	0.004	0.725	250
30086	3F Reno 100 WH 1000/840 EP WIDE	1	0.004	1.260	250
30090	3F Reno 100 WH 1000/930 EP WIDE	1	0.004	1.500	250
30094	3F Reno 100 WH 2000/840 EP WIDE	1	0.004	1.270	250
30098	3F Reno 100 WH 2000/930 EP WIDE	1	0.004	1.500	250
30103	3F Reno 100 WH 1000/840 DALI WIDE	1	0.004	0.720	250
30107	3F Reno 100 WH 1000/930 DALI WIDE	1	0.004	0.765	250
30111	3F Reno 100 WH 2000/840 DALI WIDE	1	0.004	0.765	250
30115	3F Reno 100 WH 2000/930 DALI WIDE	1	0.004	0.775	250
30205	3F Reno 100 WH 1000/840 ELL	1	0.004	0.730	252
30209	3F Reno 100 WH 1000/930 ELL	1	0.004	0.740	252
30213	3F Reno 100 WH 2000/840 ELL	1	0.004	0.745	252
30217	3F Reno 100 WH 2000/930 ELL	1	0.004	0.750	252
30222	3F Reno 100 WH 1000/840 EP ELL	1	0.004	1.500	252
30226	3F Reno 100 WH 1000/930 EP ELL	1	0.004	1.285	252
30230	3F Reno 100 WH 2000/840 EP ELL	1	0.004	1.500	252
30234	3F Reno 100 WH 2000/930 EP ELL	1	0.004	1.500	252
30239	3F Reno 100 WH 1000/840 DALI ELL	1	0.004	0.760	252
30243	3F Reno 100 WH 1000/930 DALI ELL	1	0.004	0.740	252
30247	3F Reno 100 WH 2000/840 DALI ELL	1	0.004	0.770	252
30251	3F Reno 100 WH 2000/930 DALI ELL	1	0.004	0.790	252
30273	3F Reno 150 WH 2000/840 SPOT	1	0.006	0.815	254
30277	3F Reno 150 WH 2000/930 SPOT	1	0.006	0.830	254
30281	3F Reno 150 WH 3000/840 SPOT	1	0.006	1.460	254

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
30285	3F Reno 150 WH 3000/930 SPOT	1	0.006	1.485	254
30290	3F Reno 150 WH 2000/840 EP SPOT	1	0.006	1.600	254
30294	3F Reno 150 WH 2000/930 EP SPOT	1	0.006	1.600	254
30298	3F Reno 150 WH 3000/840 EP SPOT	1	0.006	2.100	254
30302	3F Reno 150 WH 3000/930 EP SPOT	1	0.006	2.100	254
30307	3F Reno 150 WH 2000/840 DALI SPOT	1	0.006	0.840	254
30311	3F Reno 150 WH 2000/930 DALI SPOT	1	0.006	0.870	254
30315	3F Reno 150 WH 3000/840 DALI SPOT	1	0.006	1.300	254
30319	3F Reno 150 WH 3000/930 DALI SPOT	1	0.006	1.300	254
30341	3F Reno 150 WH 2000/840 WIDE	1	0.006	0.800	250
30345	3F Reno 150 WH 2000/930 WIDE	1	0.006	0.810	250
30349	3F Reno 150 WH 3000/840 WIDE	1	0.006	1.450	250
30353	3F Reno 150 WH 3000/930 WIDE	1	0.006	1.455	250
30358	3F Reno 150 WH 2000/840 EP WIDE	1	0.006	1.300	250
30362	3F Reno 150 WH 2000/930 EP WIDE	1	0.006	1.350	250
30366	3F Reno 150 WH 3000/840 EP WIDE	1	0.006	2.000	250
30370	3F Reno 150 WH 3000/930 EP WIDE	1	0.006	2.100	250
30375	3F Reno 150 WH 2000/840 DALI WIDE	1	0.006	0.840	250
30379	3F Reno 150 WH 2000/930 DALI WIDE	1	0.006	0.850	250
30383	3F Reno 150 WH 3000/840 DALI WIDE	1	0.006	1.500	250
30387	3F Reno 150 WH 3000/930 DALI WIDE	1	0.006	1.510	250
30408	3F Reno 150 WH 1500/840 UGR	1	0.006	0.825	256
30409	3F Reno 150 WH 2000/840 UGR	1	0.006	0.895	256
30419	3F Reno 150 WH 1500/840 EP UGR	1	0.006	1.375	256
30420	3F Reno 150 WH 2000/840 EP UGR	1	0.006	1.600	256
30430	3F Reno 150 WH 1500/840 DALI UGR	1	0.006	0.830	256
30431	3F Reno 150 WH 2000/840 DALI UGR	1	0.006	0.865	256
30453	3F Reno 150 WH 2000/840 ELL	1	0.006	0.810	252
30457	3F Reno 150 WH 2000/930 ELL	1	0.006	0.825	252
30461	3F Reno 150 WH 3000/840 ELL	1	0.006	1.460	252
30465	3F Reno 150 WH 3000/930 ELL	1	0.006	1.480	252
30470	3F Reno 150 WH 2000/840 EP ELL	1	0.006	1.370	252
30474	3F Reno 150 WH 2000/930 EP ELL	1	0.006	1.600	252
30478	3F Reno 150 WH 3000/840 EP ELL	1	0.006	2.100	252
30482	3F Reno 150 WH 3000/930 EP ELL	1	0.006	2.100	252
30487	3F Reno 150 WH 2000/840 DALI ELL	1	0.006	0.800	252
30491	3F Reno 150 WH 2000/930 DALI ELL	1	0.006	0.800	252
30495	3F Reno 150 WH 3000/840 DALI ELL	1	0.006	1.520	252
30499	3F Reno 150 WH 3000/930 DALI ELL	1	0.006	1.530	252
30521	3F Reno 200 WH 2000/840 SPOT	1	0.011	0.975	255
30525	3F Reno 200 WH 2000/930 SPOT	1	0.011	0.975	255
30529	3F Reno 200 WH 3000/840 SPOT	1	0.011	1.500	255
30533	3F Reno 200 WH 3000/930 SPOT	1	0.011	1.500	255
30537	3F Reno 200 WH 4000/840 SPOT	1	0.011	1.630	255
30541	3F Reno 200 WH 4000/930 SPOT	1	0.011	1.635	255
30546	3F Reno 200 WH 2000/840 EP SPOT	1	0.011	1.900	255
30550	3F Reno 200 WH 2000/930 EP SPOT	1	0.011	1.900	255
30554	3F Reno 200 WH 3000/840 EP SPOT	1	0.011	2.300	255
30558	3F Reno 200 WH 3000/930 EP SPOT	1	0.011	2.300	255
30562	3F Reno 200 WH 4000/840 EP SPOT	1	0.011	2.300	255
30566	3F Reno 200 WH 4000/930 EP SPOT	1	0.011	2.300	255
30571	3F Reno 200 WH 2000/840 DALI SPOT	1	0.011	1.000	255
30575	3F Reno 200 WH 2000/930 DALI SPOT	1	0.011	1.100	255
30579	3F Reno 200 WH 3000/840 DALI SPOT	1	0.011	1.500	255
30583	3F Reno 200 WH 3000/930 DALI SPOT	1	0.011	1.500	255
30587	3F Reno 200 WH 4000/840 DALI SPOT	1	0.011	1.655	255
30591	3F Reno 200 WH 4000/930 DALI SPOT	1	0.011	1.620	255
30621	3F Reno 200 WH 2000/840 WIDE	1	0.011	0.960	251
30625	3F Reno 200 WH 2000/930 WIDE	1	0.011	0.970	251
30629	3F Reno 200 WH 3000/840 WIDE	1	0.011	1.590	251

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
30633	3F Reno 200 WH 3000/930 WIDE	1	0.011	1.605	251
30637	3F Reno 200 WH 4000/840 WIDE	1	0.011	1.615	251
30641	3F Reno 200 WH 4000/930 WIDE	1	0.011	1.605	251
30646	3F Reno 200 WH 2000/840 EP WIDE	1	0.011	1.435	251
30650	3F Reno 200 WH 2000/930 EP WIDE	1	0.011	1.515	251
30654	3F Reno 200 WH 3000/840 EP WIDE	1	0.011	2.150	251
30658	3F Reno 200 WH 3000/930 EP WIDE	1	0.011	2.300	251
30662	3F Reno 200 WH 4000/840 EP WIDE	1	0.011	2.130	251
30666	3F Reno 200 WH 4000/930 EP WIDE	1	0.011	2.300	251
30671	3F Reno 200 WH 2000/840 DALI WIDE	1	0.011	1.055	251
30675	3F Reno 200 WH 2000/930 DALI WIDE	1	0.011	1.000	251
30679	3F Reno 200 WH 3000/840 DALI WIDE	1	0.011	1.655	251
30683	3F Reno 200 WH 3000/930 DALI WIDE	1	0.011	1.655	251
30687	3F Reno 200 WH 4000/840 DALI WIDE	1	0.011	1.670	251
30691	3F Reno 200 WH 4000/930 DALI WIDE	1	0.011	1.685	251
30721	3F Reno 200 WH 2000/840 UGR	1	0.011	0.970	256
30725	3F Reno 200 WH 2000/930 UGR	1	0.011	0.980	256
30726	3F Reno 200 WH 3000/840 UGR	1	0.011	1.620	256
30730	3F Reno 200 WH 2500/930 UGR	1	0.011	1.625	256
30737	3F Reno 200 WH 2000/840 EP UGR	1	0.011	1.900	256
30741	3F Reno 200 WH 2000/930 EP UGR	1	0.011	1.520	256
30742	3F Reno 200 WH 3000/840 EP UGR	1	0.011	2.105	256
30746	3F Reno 200 WH 2500/930 EP UGR	1	0.011	2.300	256
30753	3F Reno 200 WH 2000/840 DALI UGR	1	0.011	1.010	256
30757	3F Reno 200 WH 2000/930 DALI UGR	1	0.011	1.085	256
30758	3F Reno 200 WH 3000/840 DALI UGR	1	0.011	1.670	256
30762	3F Reno 200 WH 2500/930 DALI UGR	1	0.011	1.710	256
30785	3F Reno 200 WH 2000/840 ELL	1	0.011	0.970	253
30789	3F Reno 200 WH 2000/930 ELL	1	0.011	0.960	253
30793	3F Reno 200 WH 3000/840 ELL	1	0.011	1.500	253
30797	3F Reno 200 WH 3000/930 ELL	1	0.011	1.620	253
30801	3F Reno 200 WH 4000/840 ELL	1	0.011	1.610	253
30805	3F Reno 200 WH 4000/930 ELL	1	0.011	1.630	253
30810	3F Reno 200 WH 2000/840 EP ELL	1	0.011	1.900	253
30814	3F Reno 200 WH 2000/930 EP ELL	1	0.011	1.900	253
30818	3F Reno 200 WH 3000/840 EP ELL	1	0.011	2.300	253
30822	3F Reno 200 WH 3000/930 EP ELL	1	0.011	2.300	253
30826	3F Reno 200 WH 4000/840 EP ELL	1	0.011	2.300	253
30830	3F Reno 200 WH 4000/930 EP ELL	1	0.011	2.300	253
30835	3F Reno 200 WH 2000/840 DALI ELL	1	0.011	1.010	253
30839	3F Reno 200 WH 2000/930 DALI ELL	1	0.011	1.100	253
30843	3F Reno 200 WH 3000/840 DALI ELL	1	0.011	1.500	253
30847	3F Reno 200 WH 3000/930 DALI ELL	1	0.011	1.500	253
30851	3F Reno 200 WH 4000/840 DALI ELL	1	0.011	1.670	253
30855	3F Reno 200 WH 4000/930 DALI ELL	1	0.011	1.500	253
30893	3F Reno 100 BK 2000/840 SPOT	1	0.004	0.735	262
30897	3F Reno 100 BK 2000/930 SPOT	1	0.004	0.750	262
30927	3F Reno 100 BK 2000/840 DALI SPOT	1	0.004	0.700	262
30931	3F Reno 100 BK 2000/930 DALI SPOT	1	0.004	0.840	262
30961	3F Reno 100 BK 2000/840 WIDE	1	0.004	0.725	260
30965	3F Reno 100 BK 2000/930 WIDE	1	0.004	0.730	260
30995	3F Reno 100 BK 2000/840 DALI WIDE	1	0.004	0.765	260
30999	3F Reno 100 BK 2000/930 DALI WIDE	1	0.004	0.775	260
31097	3F Reno 100 BK 2000/840 ELL	1	0.004	0.730	261
31101	3F Reno 100 BK 2000/930 ELL	1	0.004	0.750	261
31131	3F Reno 100 BK 2000/840 DALI ELL	1	0.004	0.700	261
31135	3F Reno 100 BK 2000/930 DALI ELL	1	0.004	0.700	261
31165	3F Reno 150 BK 3000/840 SPOT	1	0.006	1.300	262
31169	3F Reno 150 BK 3000/930 SPOT	1	0.006	1.300	262
31199	3F Reno 150 BK 3000/840 DALI SPOT	1	0.006	1.300	262

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		Pcs	m³	Gross weight in kg	
31203	3F Reno 150 BK 3000/930 DALI SPOT	1	0.006	1.510	262
31233	3F Reno 150 BK 3000/840 WIDE	1	0.006	1.445	260
31237	3F Reno 150 BK 3000/930 WIDE	1	0.006	1.475	260
31267	3F Reno 150 BK 3000/840 DALI WIDE	1	0.006	1.500	260
31271	3F Reno 150 BK 3000/930 DALI WIDE	1	0.006	1.510	260
31293	3F Reno 150 BK 2000/840 UGR	1	0.006	0.810	263
31315	3F Reno 150 BK 2000/840 DALI UGR	1	0.006	0.860	263
31345	3F Reno 150 BK 3000/840 ELL	1	0.006	1.450	261
31349	3F Reno 150 BK 3000/930 ELL	1	0.006	1.485	261
31379	3F Reno 150 BK 3000/840 DALI ELL	1	0.006	1.300	261
31383	3F Reno 150 BK 3000/930 DALI ELL	1	0.006	1.485	261
31421	3F Reno 200 BK 4000/840 SPOT	1	0.011	1.300	262
31425	3F Reno 200 BK 4000/930 SPOT	1	0.011	1.300	262
31471	3F Reno 200 BK 4000/840 DALI SPOT	1	0.011	1.675	262
31475	3F Reno 200 BK 4000/930 DALI SPOT	1	0.011	1.300	262
31521	3F Reno 200 BK 4000/840 WIDE	1	0.011	1.620	260
31525	3F Reno 200 BK 4000/930 WIDE	1	0.011	1.615	260
31571	3F Reno 200 BK 4000/840 DALI WIDE	1	0.011	1.705	260
31575	3F Reno 200 BK 4000/930 DALI WIDE	1	0.011	1.715	260
31610	3F Reno 200 BK 3000/840 UGR	1	0.011	1.605	263
31614	3F Reno 200 BK 2500/930 UGR	1	0.011	1.615	263
31642	3F Reno 200 BK 3000/840 DALI UGR	1	0.011	1.680	263
31646	3F Reno 200 BK 2500/930 DALI UGR	1	0.011	1.500	263
31685	3F Reno 200 BK 4000/840 ELL	1	0.011	1.500	261
31689	3F Reno 200 BK 4000/930 ELL	1	0.011	1.610	261
31735	3F Reno 200 BK 4000/840 DALI ELL	1	0.011	1.665	261
31739	3F Reno 200 BK 4000/930 DALI ELL	1	0.011	1.500	261
34229	3F Petra OP 300 12W LED	1	0.013	1.105	100
34230	3F Petra OP 300 12W LED DALI	1	0.013	1.105	100
34231	3F Petra OP 300 12W LED EP	1	0.013	1.510	100
34233	3F Petra OP 300 12W LED Sensor	1	0.013	1.185	104
34234	3F Petra OP 300 12W/940 LED	1	0.013	1.105	100
34235	3F Petra OP 300 12W/940 LED DALI	1	0.013	1.105	100
34236	3F Petra OP 300 12W/940 LED EP	1	0.013	1.500	100
34330	3F Petra OP 380 22W LED	1	0.022	1.770	100
34331	3F Petra OP 380 22W LED DALI	1	0.022	1.770	100
34332	3F Petra OP 380 22W LED EP	1	0.022	2.245	100
34334	3F Petra OP 380 22W LED Sensor	1	0.022	1.875	104
34335	3F Petra OP 380 22W/940 LED	1	0.022	1.770	100
34336	3F Petra OP 380 22W/940 LED DALI	1	0.022	1.770	100
34337	3F Petra OP 380 22W/940 LED EP	1	0.022	2.245	100
34407	3F Petra OP 620 50W LED	1	0.055	4.790	100
34408	3F Petra OP 620 50W LED DALI	1	0.055	4.790	100
34409	3F Petra OP 620 50W LED EP	1	0.055	5.170	100
34411	3F Petra OP 620 50W LED SO	1	0.055	5.855	108
36575	Lucequadro LED 2000 VS	1	0.008	2.310	268
36576	Lucequadro LED 2000 EP VS	1	0.013	3.400	268
36578	Lucequadro LED 3000 VS	1	0.008	2.335	268
36579	Lucequadro LED 3000 EP VS	1	0.013	3.400	268
36581	Lucequadro LED 2000 VOP	1	0.008	2.320	268
36582	Lucequadro LED 2000 EP VOP	1	0.013	3.400	268
36584	Lucequadro LED 3000 VOP	1	0.008	2.350	268
36585	Lucequadro LED 3000 EP VOP	1	0.013	3.400	268
36587	Lucequadro LED 2000 SOP	1	0.008	2.015	269
36588	Lucequadro LED 2000 EP SOP	1	0.013	3.200	269
36590	Lucequadro LED 3000 SOP	1	0.008	2.040	269
36591	Lucequadro LED 3000 EP SOP	1	0.013	3.200	269
45561	03F TK 14W/840 L620	1	0.013	1.615	276
45562	03F TK 28W/840 L1204	1	0.021	2.960	276
45563	03F TK 35W/840 L1506	1	0.026	3.540	276

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		Pcs	m³	Gross weight in kg	
45564	03F TK 42W/840 L1787	1	0.027	3.975	276
45565	03F TK 18W/940 L620	1	0.013	1.710	276
45566	03F TK 35W/940 L1204	1	0.021	2.975	276
45567	03F TK 44W/940 L1506	1	0.026	3.525	276
45568	03F TK 53W/940 L1787	1	0.027	4.120	276
45569	03F TK 14W/840 DALI L620	1	0.013	1.710	276
45570	03F TK 28W/840 DALI L1204	1	0.021	2.975	276
45571	03F TK 35W/840 DALI L1506	1	0.026	3.585	276
45572	03F TK 42W/840 DALI L1787	1	0.027	4.030	276
45573	03F TK 18W/940 DALI L620	1	0.013	1.710	276
45574	03F TK 35W/940 DALI L1204	1	0.021	2.970	276
45575	03F TK 44W/940 DALI L1506	1	0.026	3.525	276
45576	03F TK 53W/940 DALI L1787	1	0.027	4.120	276
47124	3F Zeta TK L 50 AMPIO L1783	1	0.018	4.335	280
47132	3F Zeta TK L 30 AMPIO L1194	1	0.012	3.165	280
47136	3F Zeta TK L 15 AMPIO L605	1	0.007	1.890	280
47140	3F Zeta TK L 50 DALI AMPIO L1783	1	0.018	6.100	280
47148	3F Zeta TK L 30 DALI AMPIO L1194	1	0.012	3.095	280
47152	3F Zeta TK L 15 DALI AMPIO L605	1	0.007	2.900	280
47167	3F Zeta TK DR UGR 1x24/940 L1194	1	0.012	3.405	284
47168	3F Zeta TK DR UGR 1x30/940 L1783	1	0.018	4.835	284
47169	3F Zeta TK DR UGR 1x24/940 DALI L1194	1	0.012	3.730	284
47170	3F Zeta TK DR UGR 1x30/940 DALI L1783	1	0.018	5.060	284
47175	3F Zeta TK DT UGR 2x18/840 L1194	1	0.012	3.730	288
47178	3F Zeta TK DT UGR 2x22/840 L1489	1	0.008	5.025	288
47179	3F Zeta TK DT UGR 2x30/840 L1783	1	0.008	5.160	288
47180	3F Zeta TK DT UGR 2x18/840 DALI L1194	1	0.018	3.750	288
47181	3F Zeta TK DT UGR 2x22/840 DALI L1489	1	0.008	4.030	288
47182	3F Zeta TK DT UGR 2x30/840 DALI L1783	1	0.008	5.180	288
47534	3F Emilio TK LED 3000/840 DALI	1	0.004	0.915	362
47535	3F Emilio TK LED 3000/830 DALI	1	0.004	0.900	362
47536	3F Emilio TK LED 2000/930 DALI	1	0.004	0.930	362
47551	3F Emilio TK LED 3000/840	1	0.004	0.915	362
47552	3F Emilio TK LED 4000/840	1	0.004	0.910	362
47555	3F Emilio TK LED 3000/830	1	0.004	0.925	362
47556	3F Emilio TK LED 2000/MEAT	1	0.004	0.935	363
47559	3F Emilio TK LED 3000/827	1	0.004	0.925	362
47561	3F Emilio TK LED 3000/940	1	0.004	0.915	362
47562	3F Emilio TK LED 2000/930	1	0.004	0.910	362
47563	3F Emilio TK LED 3000/930	1	0.004	0.915	362
47566	3F Emilio TK LED 4000/830	1	0.004	0.925	362
47572	3F Emilio TK LED 2000/BREAD	1	0.004	0.920	363
47574	3F Emilio TK LED 2500/CRISP	1	0.004	0.900	363
47576	3F Emilio TK BK LED 3000/840	1	0.004	0.915	362
47577	3F Emilio TK BK LED 4000/840	1	0.004	0.900	362
47580	3F Emilio TK BK LED 3000/830	1	0.004	0.910	362
47581	3F Emilio TK BK LED 2000/MEAT	1	0.004	0.930	363
47584	3F Emilio TK BK LED 3000/827	1	0.004	0.900	362
47586	3F Emilio TK BK LED 3000/940	1	0.004	0.935	362
47587	3F Emilio TK BK LED 2000/930	1	0.004	0.945	362
47588	3F Emilio TK BK LED 3000/930	1	0.004	0.925	362
47591	3F Emilio TK BK LED 4000/830	1	0.004	0.900	362
47597	3F Emilio TK BK LED 2000/BREAD	1	0.004	0.900	363
47599	3F Emilio TK BK LED 2500/CRISP	1	0.004	0.900	363
47607	3F Emilio TK LED 3000/840 ELL	1	0.004	0.900	363
47608	3F Emilio TK LED 4000/840 ELL	1	0.004	0.935	363
47611	3F Emilio TK LED 3000/830 ELL	1	0.004	0.920	363
47612	3F Emilio TK LED 2000/MEAT ELL	1	0.004	0.935	364
47615	3F Emilio TK LED 3000/827 ELL	1	0.004	0.900	363
47617	3F Emilio TK LED 3000/940 ELL	1	0.004	0.925	363

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		Pcs	m³	Gross weight in kg	
47618	3F Emilio TK LED 2000/930 ELL	1	0.004	0.925	363
47619	3F Emilio TK LED 3000/930 ELL	1	0.004	0.935	363
47622	3F Emilio TK LED 4000/830 ELL	1	0.004	0.935	363
47628	3F Emilio TK LED 2000/BREAD ELL	1	0.004	0.935	364
47630	3F Emilio TK LED 2500/CRISP ELL	1	0.004	0.900	364
47640	3F Emilio TK LED 3000/840 IPER	1	0.004	0.900	364
47641	3F Emilio TK LED 4000/840 IPER	1	0.004	0.900	364
47644	3F Emilio TK LED 3000/830 IPER	1	0.004	0.900	364
47645	3F Emilio TK LED 4000/830 IPER	1	0.004	0.900	364
47648	3F Emilio TK LED 3000/827 IPER	1	0.004	0.900	364
47652	3F Emilio TK LED 3000/940 IPER	1	0.004	0.900	364
47654	3F Emilio TK LED 2000/930 IPER	1	0.004	0.900	364
47655	3F Emilio TK LED 3000/930 IPER	1	0.004	0.900	364
47657	3F Emilio TK LED 2000/MEAT IPER	1	0.004	0.900	365
47660	3F Emilio TK LED 2000/BREAD IPER	1	0.004	0.900	365
47664	3F Emilio TK LED 2500/CRISP IPER	1	0.004	0.900	365
47668	3F Emilio TK BK LED 3000/840 IPER	1	0.004	0.900	364
47669	3F Emilio TK BK LED 4000/840 IPER	1	0.004	0.900	364
47672	3F Emilio TK BK LED 3000/830 IPER	1	0.004	0.900	364
47673	3F Emilio TK BK LED 4000/830 IPER	1	0.004	0.900	364
47676	3F Emilio TK BK LED 3000/827 IPER	1	0.004	0.900	364
47680	3F Emilio TK BK LED 3000/940 IPER	1	0.004	0.900	364
47682	3F Emilio TK BK LED 2000/930 IPER	1	0.004	0.900	364
47683	3F Emilio TK BK LED 3000/930 IPER	1	0.004	0.900	364
47685	3F Emilio TK BK LED 2000/MEAT IPER	1	0.004	0.900	365
47688	3F Emilio TK BK LED 2000/BREAD IPER	1	0.004	0.900	365
47692	3F Emilio TK BK LED 2500/CRISP IPER	1	0.004	0.900	365
47698	3F Six WH 85/840 WIDE 307x378	1	0.017	3.585	352
47699	3F Six WH 70/840 WIDE 307x378	1	0.017	3.535	352
47700	3F Six WH 60/840 WIDE 307x378	1	0.017	3.400	352
47701	3F Six WH 85/840 DALI WIDE 307x378	1	0.017	3.660	352
47702	3F Six WH 70/840 DALI WIDE 307x378	1	0.017	3.400	352
47703	3F Six WH 60/840 DALI WIDE 307x378	1	0.017	3.505	352
47705	3F Six WH 85/840 MEDIUM 307x378	1	0.017	3.400	352
47706	3F Six WH 70/840 MEDIUM 307x378	1	0.017	3.400	352
47707	3F Six WH 60/840 MEDIUM 307x378	1	0.017	3.400	352
47708	3F Six WH 85/840 DALI MEDIUM 307x378	1	0.017	3.445	352
47709	3F Six WH 70/840 DALI MEDIUM 307x378	1	0.017	3.400	352
47710	3F Six WH 60/840 DALI MEDIUM 307x378	1	0.017	3.400	352
47712	3F Six WH 40/840 UGR 307x378	1	0.017	3.400	353
47713	3F Six WH 40/840 DALI UGR 307x378	1	0.017	3.470	353
47720	3F Six TK WH 60/840 WIDE 307x378	1	0.017	3.505	346
47721	3F Six TK WH 50/840 WIDE 307x378	1	0.017	3.530	346
47722	3F Six TK WH 40/840 WIDE 307x378	1	0.017	3.510	346
47723	3F Six TK WH 60/840 DALI WIDE 307x378	1	0.017	3.600	346
47724	3F Six TK WH 50/840 DALI WIDE 307x378	1	0.017	3.555	346
47725	3F Six TK WH 40/840 DALI WIDE 307x378	1	0.017	3.615	346
47727	3F Six TK WH 60/840 MEDIUM 307x378	1	0.017	3.310	347
47728	3F Six TK WH 50/840 MEDIUM 307x378	1	0.017	3.600	347
47729	3F Six TK WH 40/840 MEDIUM 307x378	1	0.017	3.600	347
47730	3F Six TK WH 60/840 DALI MEDIUM 307x378	1	0.017	3.600	347
47731	3F Six TK WH 50/840 DALI MEDIUM 307x378	1	0.017	3.600	347
47732	3F Six TK WH 40/840 DALI MEDIUM 307x378	1	0.017	3.600	347
47734	3F Six TK WH 40/840 UGR 307x378	1	0.017	3.520	348
47735	3F Six TK WH 40/840 DALI UGR 307x378	1	0.017	3.600	348
47740	3F Six TK WH 60/840 WIDE 190x602	1	0.017	3.600	346
47741	3F Six TK WH 50/840 WIDE 190x602	1	0.017	3.600	346
47742	3F Six TK WH 40/840 WIDE 190x602	1	0.017	3.420	346
47743	3F Six TK WH 60/840 DALI WIDE 190x602	1	0.017	3.600	346
47744	3F Six TK WH 50/840 DALI WIDE 190x602	1	0.017	3.600	346

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
47745	3F Six TK WH 40/840 DALI WIDE 190x602	1	0.017	3.600	346
47747	3F Six TK WH 60/840 BAT 190x602	1	0.017	3.600	347
47748	3F Six TK WH 50/840 BAT 190x602	1	0.017	3.600	347
47749	3F Six TK WH 40/840 BAT 190x602	1	0.017	3.600	347
47750	3F Six TK WH 60/840 DALI BAT 190x602	1	0.017	3.600	347
47751	3F Six TK WH 50/840 DALI BAT 190x602	1	0.017	3.600	347
47752	3F Six TK WH 40/840 DALI BAT 190x602	1	0.017	3.600	347
47754	3F Six TK WH 60/840 BAT WD 190x602	1	0.017	3.600	348
47755	3F Six TK WH 50/840 BAT WD 190x602	1	0.017	3.600	348
47756	3F Six TK WH 40/840 BAT WD 190x602	1	0.017	3.600	348
47757	3F Six TK WH 60/840 DALI BAT WD 190x602	1	0.017	3.600	348
47758	3F Six TK WH 50/840 DALI BAT WD 190x602	1	0.017	3.600	348
47759	3F Six TK WH 40/840 DALI BAT WD 190x602	1	0.017	3.600	348
47761	3F Six TK WH 40/840 UGR 190x602	1	0.017	3.600	348
47762	3F Six TK WH 40/840 DALI UGR 190x602	1	0.017	3.600	348
50010	3F Rio HO 2L 15000/840 WIDE	1	0.019	5.400	389
50011	3F Rio HO 3C 23000/840 WIDE	1	0.055	9.200	388
50012	3F Rio HO 3L 23000/840 WIDE	1	0.023	7.050	389
50013	3F Rio HO 4C 31000/840 WIDE	1	0.055	10.500	388
50014	3F Rio HO 4L 31000/840 WIDE	1	0.029	8.200	389
50015	3F Rio HO 5C 38000/840 WIDE	1	0.055	11.700	388
50016	3F Rio HO 6C 46000/840 WIDE	1	0.072	13.950	388
50017	3F Rio HO 7C 53000/840 WIDE	1	0.072	15.150	388
50018	3F Rio HO 8C 61000/840 WIDE	1	0.072	16.450	388
50019	3F Rio HO 2L 15000/865 WIDE	1	0.019	5.400	389
50020	3F Rio HO 3C 23000/865 WIDE	1	0.055	9.200	388
50021	3F Rio HO 3L 23000/865 WIDE	1	0.023	7.050	389
50022	3F Rio HO 4C 31000/865 WIDE	1	0.055	10.500	388
50023	3F Rio HO 4L 31000/865 WIDE	1	0.029	8.200	389
50024	3F Rio HO 5C 38000/865 WIDE	1	0.055	11.700	388
50025	3F Rio HO 6C 46000/865 WIDE	1	0.072	13.950	388
50026	3F Rio HO 7C 53000/865 WIDE	1	0.072	15.150	388
50027	3F Rio HO 8C 61000/865 WIDE	1	0.072	16.450	388
50028	3F Rio HO 2L 15000/840 D2D WIDE	1	0.019	5.500	389
50029	3F Rio HO 3C 23000/840 D2D WIDE	1	0.055	9.350	388
50030	3F Rio HO 3L 23000/840 D2D WIDE	1	0.023	7.150	389
50031	3F Rio HO 4C 31000/840 D2D WIDE	1	0.055	10.600	388
50032	3F Rio HO 4L 31000/840 D2D WIDE	1	0.029	8.300	389
50033	3F Rio HO 5C 38000/840 D2D WIDE	1	0.055	11.800	388
50034	3F Rio HO 6C 46000/840 D2D WIDE	1	0.072	14.050	388
50035	3F Rio HO 7C 53000/840 D2D WIDE	1	0.072	15.250	388
50036	3F Rio HO 8C 61000/840 D2D WIDE	1	0.072	16.550	388
50037	3F Rio HO 2L 15000/865 D2D WIDE	1	0.019	5.500	389
50038	3F Rio HO 3C 23000/865 D2D WIDE	1	0.055	9.350	388
50039	3F Rio HO 3L 23000/865 D2D WIDE	1	0.023	7.150	389
50040	3F Rio HO 4C 31000/865 D2D WIDE	1	0.055	10.600	388
50041	3F Rio HO 4L 31000/865 D2D WIDE	1	0.029	8.300	389
50042	3F Rio HO 5C 38000/865 D2D WIDE	1	0.055	11.800	388
50043	3F Rio HO 6C 46000/865 D2D WIDE	1	0.072	14.050	388
50044	3F Rio HO 7C 53000/865 D2D WIDE	1	0.072	15.250	388
50045	3F Rio HO 8C 61000/865 D2D WIDE	1	0.072	16.550	388
50046	3F Rio HO 2L 15000/840 MEDIUM	1	0.019	5.400	391
50047	3F Rio HO 3C 23000/840 MEDIUM	1	0.055	9.200	390
50048	3F Rio HO 3L 23000/840 MEDIUM	1	0.023	7.050	391
50049	3F Rio HO 4C 31000/840 MEDIUM	1	0.055	10.500	390
50050	3F Rio HO 4L 31000/840 MEDIUM	1	0.029	8.200	391
50051	3F Rio HO 5C 38000/840 MEDIUM	1	0.055	11.700	390
50052	3F Rio HO 6C 46000/840 MEDIUM	1	0.072	13.950	390
50053	3F Rio HO 7C 53000/840 MEDIUM	1	0.072	15.150	390
50054	3F Rio HO 8C 61000/840 MEDIUM	1	0.072	16.450	390

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		Pcs	m³	Gross weight in kg	
50055	3F Rio HO 2L 15000/865 MEDIUM	1	0.019	5.400	391
50056	3F Rio HO 3C 23000/865 MEDIUM	1	0.055	9.200	390
50057	3F Rio HO 3L 23000/865 MEDIUM	1	0.023	7.050	391
50058	3F Rio HO 4C 31000/865 MEDIUM	1	0.055	10.500	390
50059	3F Rio HO 4L 31000/865 MEDIUM	1	0.029	8.200	391
50060	3F Rio HO 5C 38000/865 MEDIUM	1	0.055	11.700	390
50061	3F Rio HO 6C 46000/865 MEDIUM	1	0.072	13.950	390
50062	3F Rio HO 7C 53000/865 MEDIUM	1	0.072	15.150	390
50063	3F Rio HO 8C 61000/865 MEDIUM	1	0.072	16.450	390
50064	3F Rio HO 2L 15000/840 D2D MEDIUM	1	0.019	5.500	391
50065	3F Rio HO 3C 23000/840 D2D MEDIUM	1	0.055	9.350	390
50066	3F Rio HO 3L 23000/840 D2D MEDIUM	1	0.023	7.150	391
50067	3F Rio HO 4C 31000/840 D2D MEDIUM	1	0.055	10.600	390
50068	3F Rio HO 4L 31000/840 D2D MEDIUM	1	0.029	8.300	391
50069	3F Rio HO 5C 38000/840 D2D MEDIUM	1	0.055	11.800	390
50070	3F Rio HO 6C 46000/840 D2D MEDIUM	1	0.072	14.050	390
50071	3F Rio HO 7C 53000/840 D2D MEDIUM	1	0.072	15.250	390
50072	3F Rio HO 8C 61000/840 D2D MEDIUM	1	0.072	16.550	390
50073	3F Rio HO 2L 15000/865 D2D MEDIUM	1	0.019	5.500	391
50074	3F Rio HO 3C 23000/865 D2D MEDIUM	1	0.055	9.350	390
50075	3F Rio HO 3L 23000/865 D2D MEDIUM	1	0.023	7.150	391
50076	3F Rio HO 4C 31000/865 D2D MEDIUM	1	0.055	10.600	390
50077	3F Rio HO 4L 31000/865 D2D MEDIUM	1	0.029	8.300	391
50078	3F Rio HO 5C 38000/865 D2D MEDIUM	1	0.055	11.800	390
50079	3F Rio HO 6C 46000/865 D2D MEDIUM	1	0.072	14.050	390
50080	3F Rio HO 7C 53000/865 D2D MEDIUM	1	0.072	15.250	390
50081	3F Rio HO 8C 61000/865 D2D MEDIUM	1	0.072	16.550	390
50082	3F Rio HO 2L 15000/840 CONC	1	0.019	5.400	393
50083	3F Rio HO 3C 23000/840 CONC	1	0.055	9.200	392
50084	3F Rio HO 3L 23000/840 CONC	1	0.023	7.050	393
50085	3F Rio HO 4C 31000/840 CONC	1	0.055	10.500	392
50086	3F Rio HO 4L 31000/840 CONC	1	0.029	8.200	393
50087	3F Rio HO 5C 38000/840 CONC	1	0.055	11.700	392
50088	3F Rio HO 6C 46000/840 CONC	1	0.072	13.950	392
50089	3F Rio HO 7C 53000/840 CONC	1	0.072	15.150	392
50090	3F Rio HO 8C 61000/840 CONC	1	0.072	16.450	392
50091	3F Rio HO 2L 15000/865 CONC	1	0.019	5.400	393
50092	3F Rio HO 3C 23000/865 CONC	1	0.055	9.200	392
50093	3F Rio HO 3L 23000/865 CONC	1	0.023	7.050	393
50094	3F Rio HO 4C 31000/865 CONC	1	0.055	10.500	392
50095	3F Rio HO 4L 31000/865 CONC	1	0.029	8.200	393
50096	3F Rio HO 5C 38000/865 CONC	1	0.055	11.700	392
50097	3F Rio HO 6C 46000/865 CONC	1	0.072	13.950	392
50098	3F Rio HO 7C 53000/865 CONC	1	0.072	15.150	392
50099	3F Rio HO 8C 61000/865 CONC	1	0.072	16.450	392
50100	3F Rio HO 2L 15000/840 D2D CONC	1	0.019	5.500	393
50101	3F Rio HO 3C 23000/840 D2D CONC	1	0.055	9.350	392
50102	3F Rio HO 3L 23000/840 D2D CONC	1	0.023	7.150	393
50103	3F Rio HO 4C 31000/840 D2D CONC	1	0.055	10.600	392
50104	3F Rio HO 4L 31000/840 D2D CONC	1	0.029	8.300	393
50105	3F Rio HO 5C 38000/840 D2D CONC	1	0.055	11.800	392
50106	3F Rio HO 6C 46000/840 D2D CONC	1	0.072	14.050	392
50107	3F Rio HO 7C 53000/840 D2D CONC	1	0.072	15.250	392
50108	3F Rio HO 8C 61000/840 D2D CONC	1	0.072	16.550	392
50109	3F Rio HO 2L 15000/865 D2D CONC	1	0.019	5.500	393
50110	3F Rio HO 3C 23000/865 D2D CONC	1	0.055	9.350	392
50111	3F Rio HO 3L 23000/865 D2D CONC	1	0.023	7.150	393
50112	3F Rio HO 4C 31000/865 D2D CONC	1	0.055	10.600	392
50113	3F Rio HO 4L 31000/865 D2D CONC	1	0.029	8.300	393
50114	3F Rio HO 5C 38000/865 D2D CONC	1	0.055	11.800	392

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
50115	3F Rio HO 6C 46000/865 D2D CONC	1	0.072	14.050	392
50116	3F Rio HO 7C 53000/865 D2D CONC	1	0.072	15.250	392
50117	3F Rio HO 8C 61000/865 D2D CONC	1	0.072	16.550	392
50136	3F Rio HO 2L 15000/840 SenseHBZQ WIDE	1	0.023	6.550	397
50137	3F Rio HO 3C 23000/840 SenseHBZQ WIDE	1	0.055	9.650	396
50138	3F Rio HO 3L 23000/840 SenseHBZQ WIDE	1	0.029	8.300	397
50139	3F Rio HO 4C 31000/840 SenseHBZQ WIDE	1	0.055	10.900	396
50140	3F Rio HO 4L 31000/840 SenseHBZQ WIDE	1	0.033	9.500	397
50141	3F Rio HO 5C 38000/840 SenseHBZQ WIDE	1	0.055	12.100	396
50142	3F Rio HO 6C 46000/840 SenseHBZQ WIDE	1	0.072	14.350	396
50143	3F Rio HO 7C 53000/840 SenseHBZQ WIDE	1	0.072	15.550	396
50144	3F Rio HO 8C 61000/840 SenseHBZQ WIDE	1	0.072	16.850	396
50145	3F Rio HO 2L 15000/865 SenseHBZQ WIDE	1	0.023	6.550	397
50146	3F Rio HO 3C 23000/865 SenseHBZQ WIDE	1	0.055	9.650	396
50147	3F Rio HO 3L 23000/865 SenseHBZQ WIDE	1	0.029	8.300	397
50148	3F Rio HO 4C 31000/865 SenseHBZQ WIDE	1	0.055	10.900	396
50149	3F Rio HO 4L 31000/865 SenseHBZQ WIDE	1	0.033	9.500	397
50150	3F Rio HO 5C 38000/865 SenseHBZQ WIDE	1	0.055	12.100	396
50151	3F Rio HO 6C 46000/865 SenseHBZQ WIDE	1	0.072	14.350	396
50152	3F Rio HO 7C 53000/865 SenseHBZQ WIDE	1	0.072	15.550	396
50153	3F Rio HO 8C 61000/865 SenseHBZQ WIDE	1	0.072	16.850	396
50172	3F Rio HO 2L 15000/840 SenseHBZQ MEDIUM	1	0.023	6.550	399
50173	3F Rio HO 3C 23000/840 SenseHBZQ MEDIUM	1	0.055	9.650	398
50174	3F Rio HO 3L 23000/840 SenseHBZQ MEDIUM	1	0.029	8.300	399
50175	3F Rio HO 4C 31000/840 SenseHBZQ MEDIUM	1	0.055	10.900	398
50176	3F Rio HO 4L 31000/840 SenseHBZQ MEDIUM	1	0.033	9.500	399
50177	3F Rio HO 5C 38000/840 SenseHBZQ MEDIUM	1	0.055	12.100	398
50178	3F Rio HO 6C 46000/840 SenseHBZQ MEDIUM	1	0.072	14.350	398
50179	3F Rio HO 7C 53000/840 SenseHBZQ MEDIUM	1	0.072	15.550	398
50180	3F Rio HO 8C 61000/840 SenseHBZQ MEDIUM	1	0.072	16.850	398
50181	3F Rio HO 2L 15000/865 SenseHBZQ MEDIUM	1	0.023	6.550	399
50182	3F Rio HO 3C 23000/865 SenseHBZQ MEDIUM	1	0.055	9.650	398
50183	3F Rio HO 3L 23000/865 SenseHBZQ MEDIUM	1	0.029	8.300	399
50184	3F Rio HO 4C 31000/865 SenseHBZQ MEDIUM	1	0.055	10.900	398
50185	3F Rio HO 4L 31000/865 SenseHBZQ MEDIUM	1	0.033	9.500	399
50186	3F Rio HO 5C 38000/865 SenseHBZQ MEDIUM	1	0.055	12.100	398
50187	3F Rio HO 6C 46000/865 SenseHBZQ MEDIUM	1	0.072	14.350	398
50188	3F Rio HO 7C 53000/865 SenseHBZQ MEDIUM	1	0.072	15.550	398
50189	3F Rio HO 8C 61000/865 SenseHBZQ MEDIUM	1	0.072	16.850	398
50208	3F Rio HO 2L 15000/840 SenseHBZQ CONC	1	0.023	6.550	401
50209	3F Rio HO 3C 23000/840 SenseHBZQ CONC	1	0.055	9.650	400
50210	3F Rio HO 3L 23000/840 SenseHBZQ CONC	1	0.029	8.300	401
50211	3F Rio HO 4C 31000/840 SenseHBZQ CONC	1	0.055	10.900	400
50212	3F Rio HO 4L 31000/840 SenseHBZQ CONC	1	0.033	9.500	401
50213	3F Rio HO 5C 38000/840 SenseHBZQ CONC	1	0.055	12.100	400
50214	3F Rio HO 6C 46000/840 SenseHBZQ CONC	1	0.072	14.350	400
50215	3F Rio HO 7C 53000/840 SenseHBZQ CONC	1	0.072	15.550	400
50216	3F Rio HO 8C 61000/840 SenseHBZQ CONC	1	0.072	16.850	400
50217	3F Rio HO 2L 15000/865 SenseHBZQ CONC	1	0.023	6.550	401
50218	3F Rio HO 3C 23000/865 SenseHBZQ CONC	1	0.055	9.650	400
50219	3F Rio HO 3L 23000/865 SenseHBZQ CONC	1	0.029	8.300	401
50220	3F Rio HO 4C 31000/865 SenseHBZQ CONC	1	0.055	10.900	400
50221	3F Rio HO 4L 31000/865 SenseHBZQ CONC	1	0.033	9.500	401
50222	3F Rio HO 5C 38000/865 SenseHBZQ CONC	1	0.055	12.100	400
50223	3F Rio HO 6C 46000/865 SenseHBZQ CONC	1	0.072	14.350	400
50224	3F Rio HO 7C 53000/865 SenseHBZQ CONC	1	0.072	15.550	400
50225	3F Rio HO 8C 61000/865 SenseHBZQ CONC	1	0.072	16.850	400
50227	3F Rio HT 3C 11000/840 WIDE	1	0.055	9.200	404
50232	3F Rio HT 6C 21000/840 WIDE	1	0.072	13.950	404
50245	3F Rio HT 3C 11000/840 MEDIUM	1	0.055	9.200	404

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
50250	3F Rio HT 6C 21000/840 MEDIUM	1	0.072	13.950	404
50300	3F Rio HO 2L 15000/840 SenseMBZQ WIDE	1	0.023	6.550	397
50301	3F Rio HO 3C 23000/840 SenseMBZQ WIDE	1	0.055	9.650	396
50302	3F Rio HO 3L 23000/840 SenseMBZQ WIDE	1	0.029	8.300	397
50303	3F Rio HO 4C 31000/840 SenseMBZQ WIDE	1	0.055	10.900	396
50304	3F Rio HO 4L 31000/840 SenseMBZQ WIDE	1	0.033	9.500	397
50305	3F Rio HO 5C 38000/840 SenseMBZQ WIDE	1	0.055	12.100	396
50306	3F Rio HO 6C 46000/840 SenseMBZQ WIDE	1	0.072	14.350	396
50307	3F Rio HO 7C 53000/840 SenseMBZQ WIDE	1	0.072	15.550	396
50308	3F Rio HO 8C 61000/840 SenseMBZQ WIDE	1	0.072	16.850	396
50309	3F Rio HO 2L 15000/865 SenseMBZQ WIDE	1	0.023	6.550	397
50310	3F Rio HO 3C 23000/865 SenseMBZQ WIDE	1	0.055	9.650	396
50311	3F Rio HO 3L 23000/865 SenseMBZQ WIDE	1	0.029	8.300	397
50312	3F Rio HO 4C 31000/865 SenseMBZQ WIDE	1	0.055	10.900	396
50313	3F Rio HO 4L 31000/865 SenseMBZQ WIDE	1	0.033	9.500	397
50314	3F Rio HO 5C 38000/865 SenseMBZQ WIDE	1	0.055	12.100	396
50315	3F Rio HO 6C 46000/865 SenseMBZQ WIDE	1	0.072	14.350	396
50316	3F Rio HO 7C 53000/865 SenseMBZQ WIDE	1	0.072	15.550	396
50317	3F Rio HO 8C 61000/865 SenseMBZQ WIDE	1	0.072	16.850	396
50318	3F Rio HO 2L 15000/840 SenseMBZQ MEDIUM	1	0.023	6.550	399
50319	3F Rio HO 3C 23000/840 SenseMBZQ MEDIUM	1	0.055	9.650	398
50320	3F Rio HO 3L 23000/840 SenseMBZQ MEDIUM	1	0.029	8.300	399
50321	3F Rio HO 4C 31000/840 SenseMBZQ MEDIUM	1	0.055	10.900	398
50322	3F Rio HO 4L 31000/840 SenseMBZQ MEDIUM	1	0.033	9.500	399
50323	3F Rio HO 5C 38000/840 SenseMBZQ MEDIUM	1	0.055	12.100	398
50324	3F Rio HO 6C 46000/840 SenseMBZQ MEDIUM	1	0.072	14.350	398
50325	3F Rio HO 7C 53000/840 SenseMBZQ MEDIUM	1	0.072	15.550	398
50326	3F Rio HO 8C 61000/840 SenseMBZQ MEDIUM	1	0.072	16.850	398
50327	3F Rio HO 2L 15000/865 SenseMBZQ MEDIUM	1	0.023	6.550	399
50328	3F Rio HO 3C 23000/865 SenseMBZQ MEDIUM	1	0.055	9.650	398
50329	3F Rio HO 3L 23000/865 SenseMBZQ MEDIUM	1	0.029	8.300	399
50330	3F Rio HO 4C 31000/865 SenseMBZQ MEDIUM	1	0.055	10.900	398
50331	3F Rio HO 4L 31000/865 SenseMBZQ MEDIUM	1	0.033	9.500	399
50332	3F Rio HO 5C 38000/865 SenseMBZQ MEDIUM	1	0.055	12.100	398
50333	3F Rio HO 6C 46000/865 SenseMBZQ MEDIUM	1	0.072	14.350	398
50334	3F Rio HO 7C 53000/865 SenseMBZQ MEDIUM	1	0.072	15.550	398
50335	3F Rio HO 8C 61000/865 SenseMBZQ MEDIUM	1	0.072	16.850	398
50336	3F Rio HO 2L 15000/840 SenseMBZQ CONC	1	0.023	6.550	401
50337	3F Rio HO 3C 23000/840 SenseMBZQ CONC	1	0.055	9.650	400
50338	3F Rio HO 3L 23000/840 SenseMBZQ CONC	1	0.029	8.300	401
50339	3F Rio HO 4C 31000/840 SenseMBZQ CONC	1	0.055	10.900	400
50340	3F Rio HO 4L 31000/840 SenseMBZQ CONC	1	0.033	9.500	401
50341	3F Rio HO 5C 38000/840 SenseMBZQ CONC	1	0.055	12.100	400
50342	3F Rio HO 6C 46000/840 SenseMBZQ CONC	1	0.072	14.350	400
50343	3F Rio HO 7C 53000/840 SenseMBZQ CONC	1	0.072	15.550	400
50344	3F Rio HO 8C 61000/840 SenseMBZQ CONC	1	0.072	16.850	400
50345	3F Rio HO 2L 15000/865 SenseMBZQ CONC	1	0.023	6.550	401
50346	3F Rio HO 3C 23000/865 SenseMBZQ CONC	1	0.055	9.650	400
50347	3F Rio HO 3L 23000/865 SenseMBZQ CONC	1	0.029	8.300	401
50348	3F Rio HO 4C 31000/865 SenseMBZQ CONC	1	0.055	10.900	400
50349	3F Rio HO 4L 31000/865 SenseMBZQ CONC	1	0.033	9.500	401
50350	3F Rio HO 5C 38000/865 SenseMBZQ CONC	1	0.055	12.100	400
50351	3F Rio HO 6C 46000/865 SenseMBZQ CONC	1	0.072	14.350	400
50352	3F Rio HO 7C 53000/865 SenseMBZQ CONC	1	0.072	15.550	400
50353	3F Rio HO 8C 61000/865 SenseMBZQ CONC	1	0.072	16.850	400
50355	3F Rio HE 4C 23000/840 WIDE	1	0.055	10.500	408
50356	3F Rio HE 5C 28000/840 WIDE	1	0.055	11.700	408
50357	3F Rio HE 6C 34000/840 WIDE	1	0.072	13.950	408
50358	3F Rio HE 4C 23000/840 D2D WIDE	1	0.055	10.600	408
50359	3F Rio HE 5C 28000/840 D2D WIDE	1	0.055	11.800	408

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		Pcs	m³	Gross weight in kg	
50360	3F Rio HE 6C 34000/840 D2D WIDE	1	0.072	14.050	408
52002	Beta 500 200W/840 SP L870	1	0.054	10.055	460
52003	Beta 500 300W/840 SP L1230	1	0.085	13.335	460
52005	Beta 500 200W/840 DALI SP L870	1	0.054	9.600	460
52006	Beta 500 300W/840 DALI SP L1230	1	0.085	11.500	460
52026	Beta 500 200W/840 CONC SL L870	1	0.054	9.800	461
52027	Beta 500 300W/840 CONC SL L1230	1	0.085	15.255	461
52029	Beta 500 200W/840 DALI CONC SL L870	1	0.054	9.800	461
52030	Beta 500 300W/840 DALI CONC SL L1230	1	0.085	11.700	461
52038	Beta 500 200W/840 CONC VT L870	1	0.054	12.700	461
52039	Beta 500 300W/840 CONC VT L1230	1	0.085	16.500	461
52041	Beta 500 200W/840 DALI CONC VT L870	1	0.054	12.700	461
52042	Beta 500 300W/840 DALI CONC VT L1230	1	0.085	16.500	461
52050	Beta 500 200W/840 VA L870	1	0.054	12.500	460
52051	Beta 500 300W/840 VA L1230	1	0.085	16.300	460
52053	Beta 500 200W/840 DALI VA L870	1	0.054	12.395	460
52054	Beta 500 300W/840 DALI VA L1230	1	0.085	16.300	460
52056	Beta 500 150W/840 SP L870	1	0.054	8.905	460
52057	Beta 500 150W/840 DALI SP L870	1	0.054	8.865	460
52064	Beta 500 150W/840 CONC SL L870	1	0.054	9.600	461
52065	Beta 500 150W/840 DALI CONC SL L870	1	0.054	9.600	461
52068	Beta 500 150W/840 CONC VT L870	1	0.054	12.500	461
52069	Beta 500 150W/840 DALI CONC VT L870	1	0.054	12.500	461
52072	Beta 500 150W/840 VA L870	1	0.054	11.680	460
52073	Beta 500 150W/840 DALI VA L870	1	0.054	12.300	460
52094	3F Tank ICE XT 45W/840 WIDE L1265	1	0.012	4.315	450
52095	3F Tank ICE XT 55W/840 WIDE L1560	1	0.014	4.700	450
52096	3F Tank ICE XT 70W/840 WIDE L1850	1	0.016	5.640	450
52110	3F Tank ICE XT 45W/840 MEDIUM L1265	1	0.012	4.205	450
52111	3F Tank ICE XT 55W/840 MEDIUM L1560	1	0.014	4.700	450
52112	3F Tank ICE XT 70W/840 MEDIUM L1850	1	0.016	5.570	450
52126	3F Tank ICE XT 45W/840 CONC L1265	1	0.012	4.205	451
52127	3F Tank ICE XT 55W/840 CONC L1560	1	0.014	4.700	451
52128	3F Tank ICE XT 70W/840 CONC L1850	1	0.016	5.380	451
52142	3F Tank ICE XT 45W/840 UGR L1265	1	0.012	4.205	451
52143	3F Tank ICE XT 55W/840 UGR L1560	1	0.014	4.985	451
52144	3F Tank ICE XT 70W/840 UGR L1850	1	0.016	5.770	451
52510	Beta 235 LED 752x55 CONC L1565	1	0.039	9.750	555
52511	Beta 235 LED 751x60 CONC L1565	1	0.039	8.490	555
52512	Beta 235 LED 762x55 CONC VT L1565	1	0.039	12.640	561
52513	Beta 235 LED 761x60 CONC VT L1565	1	0.039	12.000	561
52514	Beta 235 LED 762x55 CONC VS L1565	1	0.039	12.425	558
52515	Beta 235 LED 761x60 CONC VS L1565	1	0.039	11.410	558
52517	Beta 235 LED 752x55 DALI CONC L1565	1	0.039	9.200	555
52518	Beta 235 LED 751x60 DALI CONC L1565	1	0.039	8.875	555
52519	Beta 235 LED 762x55 DALI CONC VT L1565	1	0.039	12.900	561
52520	Beta 235 LED 761x60 DALI CONC VT L1565	1	0.039	12.000	561
52521	Beta 235 LED 762x55 DALI CONC VS L1565	1	0.039	12.900	558
52522	Beta 235 LED 761x60 DALI CONC VS L1565	1	0.039	11.195	558
52524	Beta 235 LED 752x45 CONC L1265	1	0.042	7.975	555
52526	Beta 235 LED 762x45 CONC VT L1265	1	0.031	10.500	561
52528	Beta 235 LED 762x45 CONC VS L1265	1	0.031	10.500	558
52531	Beta 235 LED 752x45 DALI CONC L1265	1	0.042	7.900	555
52533	Beta 235 LED 762x45 DALI CONC VT L1265	1	0.031	10.275	561
52535	Beta 235 LED 762x45 DALI CONC VS L1265	1	0.031	10.500	558
52552	Beta 235 LED 752x55 MEDIO L1565	1	0.039	9.625	555
52553	Beta 235 LED 751x60 MEDIO L1565	1	0.039	8.300	555
52554	Beta 235 LED 762x55 MEDIO VT L1565	1	0.039	12.495	560
52555	Beta 235 LED 761x60 MEDIO VT L1565	1	0.039	12.000	560
52556	Beta 235 LED 762x55 MEDIO VS L1565	1	0.039	12.900	558

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52557	Beta 235 LED 761x60 MEDIO VS L1565	1	0.039	11.505	558
52559	Beta 235 LED 752x55 DALI MEDIO L1565	1	0.039	9.570	555
52560	Beta 235 LED 751x60 DALI MEDIO L1565	1	0.039	8.300	555
52561	Beta 235 LED 762x55 DALI MEDIO VT L1565	1	0.039	12.900	560
52562	Beta 235 LED 761x60 DALI MEDIO VT L1565	1	0.039	12.000	560
52563	Beta 235 LED 762x55 DALI MEDIO VS L1565	1	0.039	12.900	558
52564	Beta 235 LED 761x60 DALI MEDIO VS L1565	1	0.039	12.000	558
52566	Beta 235 LED 752x45 MEDIO L1265	1	0.042	7.960	555
52567	Beta 235 LED 751x50 MEDIO L1265	1	0.042	7.325	555
52568	Beta 235 LED 762x45 MEDIO VT L1265	1	0.031	10.500	560
52569	Beta 235 LED 761x50 MEDIO VT L1265	1	0.031	9.500	560
52570	Beta 235 LED 762x45 MEDIO VS L1265	1	0.031	10.500	558
52571	Beta 235 LED 761x50 MEDIO VS L1265	1	0.031	9.800	558
52573	Beta 235 LED 752x45 DALI MEDIO L1265	1	0.042	7.900	555
52574	Beta 235 LED 751x50 DALI MEDIO L1265	1	0.042	7.200	555
52575	Beta 235 LED 762x45 DALI MEDIO VT L1265	1	0.031	10.250	560
52576	Beta 235 LED 761x50 DALI MEDIO VT L1265	1	0.031	9.800	560
52577	Beta 235 LED 762x45 DALI MEDIO VS L1265	1	0.031	10.500	558
52578	Beta 235 LED 761x50 DALI MEDIO VS L1265	1	0.031	9.800	558
52614	Beta 235 LED 751x50 UGR L1265	1	0.042	7.405	556
52615	Beta 235 LED 751x60 UGR L1565	1	0.039	8.870	556
52616	Beta 235 LED 752x45 UGR L1265	1	0.042	8.125	556
52617	Beta 235 LED 752x55 UGR L1565	1	0.039	9.815	556
52618	Beta 235 LED 751x50 DALI UGR L1265	1	0.042	7.455	556
52619	Beta 235 LED 751x60 DALI UGR L1565	1	0.039	8.860	556
52620	Beta 235 LED 752x45 DALI UGR L1265	1	0.042	8.125	556
52621	Beta 235 LED 752x55 DALI UGR L1565	1	0.039	9.815	556
52622	Beta 235 LED 761x50 UGR VS L1265	1	0.031	9.710	559
52623	Beta 235 LED 761x60 UGR VS L1565	1	0.039	11.890	559
52624	Beta 235 LED 762x45 UGR VS L1265	1	0.031	10.465	559
52625	Beta 235 LED 762x55 UGR VS L1565	1	0.039	12.565	559
52626	Beta 235 LED 761x50 DALI UGR VS L1265	1	0.031	9.800	559
52627	Beta 235 LED 761x60 DALI UGR VS L1565	1	0.039	11.370	559
52628	Beta 235 LED 762x45 DALI UGR VS L1265	1	0.031	10.390	559
52629	Beta 235 LED 762x55 DALI UGR VS L1565	1	0.039	12.770	559
52630	Beta 235 LED 761x50 UGR VT L1265	1	0.031	9.710	562
52631	Beta 235 LED 761x60 UGR VT L1565	1	0.039	11.805	562
52632	Beta 235 LED 762x45 UGR VT L1265	1	0.031	10.430	562
52633	Beta 235 LED 762x55 UGR VT L1565	1	0.039	12.725	562
52634	Beta 235 LED 761x50 DALI UGR VT L1265	1	0.031	9.800	562
52635	Beta 235 LED 761x60 DALI UGR VT L1565	1	0.039	12.000	562
52636	Beta 235 LED 762x45 DALI UGR VT L1265	1	0.031	10.500	562
52637	Beta 235 LED 762x55 DALI UGR VT L1565	1	0.039	12.530	562
52655	Beta 235 LED 921x50 L1265	1	0.042	6.840	566
52656	Beta 235 LED 921x60 L1565	1	0.053	8.000	566
52657	Beta 235 LED 922x40 L1265	1	0.042	6.700	566
52658	Beta 235 LED 922x50 L1565	1	0.053	8.855	566
52659	Beta 235 LED 921x50 DALI L1265	1	0.042	6.840	566
52660	Beta 235 LED 921x60 DALI L1565	1	0.053	8.300	566
52661	Beta 235 LED 922x40 DALI L1265	1	0.042	7.900	566
52662	Beta 235 LED 922x50 DALI L1565	1	0.053	9.200	566
52663	Beta 235 LED 931x50 VS L1265	1	0.031	8.505	568
52664	Beta 235 LED 931x60 VS L1565	1	0.039	10.540	568
52665	Beta 235 LED 932x40 VS L1265	1	0.031	9.825	568
52666	Beta 235 LED 932x50 VS L1565	1	0.039	11.795	568
52667	Beta 235 LED 931x50 DALI VS L1265	1	0.031	9.080	568
52668	Beta 235 LED 931x60 DALI VS L1565	1	0.039	12.000	568
52669	Beta 235 LED 932x40 DALI VS L1265	1	0.031	10.500	568
52670	Beta 235 LED 932x50 DALI VS L1565	1	0.039	11.860	568
52672	Beta 235 LED 751x90/840 L1265	1	0.042	8.125	554

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52673	Beta 235 LED 751x110/840 L1265	1	0.042	8.125	554
52674	Beta 235 LED 751x90/840 D2D L1265	1	0.042	8.125	554
52675	Beta 235 LED 751x110/840 D2D L1265	1	0.042	8.125	554
52762	Beta 235 LED 752x55 AMPIO L1565	1	0.039	9.815	554
52764	Beta 235 LED 752x55 IPERCONC L1565	1	0.039	9.200	556
52765	Beta 235 LED 751x60 AMPIO L1565	1	0.039	8.870	554
52769	Beta 235 LED 762x55 AMPIO VT L1565	1	0.039	12.725	560
52771	Beta 235 LED 762x55 IPERCONC VT L1565	1	0.039	12.900	561
52772	Beta 235 LED 761x60 AMPIO VT L1565	1	0.039	11.805	560
52776	Beta 235 LED 762x55 AMPIO VS L1565	1	0.039	12.865	557
52778	Beta 235 LED 762x55 IPERCONC VS L1565	1	0.039	12.900	559
52779	Beta 235 LED 761x60 AMPIO VS L1565	1	0.039	11.225	557
52783	Beta 235 LED 922x50 AMPIO L1565	1	0.053	8.855	567
52785	Beta 235 LED 922x50 IPERCONC L1565	1	0.053	9.200	567
52786	Beta 235 LED 921x60 AMPIO L1565	1	0.053	8.000	567
52790	Beta 235 LED 932x50 AMPIO VT L1565	1	0.039	11.905	570
52792	Beta 235 LED 932x50 IPERCONC VT L1565	1	0.039	12.900	570
52793	Beta 235 LED 931x60 AMPIO VT L1565	1	0.039	11.085	570
52797	Beta 235 LED 932x50 AMPIO VS L1565	1	0.039	11.795	569
52799	Beta 235 LED 932x50 IPERCONC VS L1565	1	0.039	12.900	569
52800	Beta 235 LED 931x60 AMPIO VS L1565	1	0.039	10.540	569
52804	Beta 235 LED 752x55 DALI AMPIO L1565	1	0.039	9.730	554
52806	Beta 235 LED 752x55 DALI IPERCONC L1565	1	0.039	9.200	556
52807	Beta 235 LED 751x60 DALI AMPIO L1565	1	0.039	8.860	554
52811	Beta 235 LED 762x55 DALI AMPIO VT L1565	1	0.039	12.530	560
52813	Beta 235 LED 762x55 DALI IPERCONC VT L1565	1	0.039	12.900	561
52814	Beta 235 LED 761x60 DALI AMPIO VT L1565	1	0.039	12.000	560
52818	Beta 235 LED 762x55 DALI AMPIO VS L1565	1	0.039	12.770	557
52820	Beta 235 LED 762x55 DALI IPERCONC VS L1565	1	0.039	12.900	559
52821	Beta 235 LED 761x60 DALI AMPIO VS L1565	1	0.039	11.370	557
52825	Beta 235 LED 922x50 DALI AMPIO L1565	1	0.053	9.070	567
52827	Beta 235 LED 922x50 DALI IPERCONC L1565	1	0.053	9.200	567
52828	Beta 235 LED 921x60 DALI AMPIO L1565	1	0.053	8.300	567
52832	Beta 235 LED 932x50 DALI AMPIO VT L1565	1	0.039	12.020	570
52834	Beta 235 LED 932x50 DALI IPERCONC VT L1565	1	0.039	12.900	570
52835	Beta 235 LED 931x60 DALI AMPIO VT L1565	1	0.039	10.990	570
52839	Beta 235 LED 932x50 DALI AMPIO VS L1565	1	0.039	11.860	569
52841	Beta 235 LED 932x50 DALI IPERCONC VS L1565	1	0.039	12.900	569
52842	Beta 235 LED 931x60 DALI AMPIO VS L1565	1	0.039	12.000	569
52846	Beta 235 LED 752x45 AMPIO L1265	1	0.042	8.125	554
52848	Beta 235 LED 752x45 IPERCONC L1265	1	0.042	8.075	556
52849	Beta 235 LED 751x50 AMPIO L1265	1	0.042	7.405	554
52853	Beta 235 LED 762x45 AMPIO VT L1265	1	0.031	10.430	560
52855	Beta 235 LED 762x45 IPERCONC VT L1265	1	0.031	10.500	561
52856	Beta 235 LED 761x50 AMPIO VT L1265	1	0.031	9.590	560
52860	Beta 235 LED 762x45 AMPIO VS L1265	1	0.031	10.465	557
52862	Beta 235 LED 762x45 IPERCONC VS L1265	1	0.031	10.500	559
52863	Beta 235 LED 761x50 AMPIO VS L1265	1	0.031	9.710	557
52867	Beta 235 LED 922x40 AMPIO L1265	1	0.042	7.595	567
52869	Beta 235 LED 922x40 IPERCONC L1265	1	0.042	7.545	567
52870	Beta 235 LED 921x50 AMPIO L1265	1	0.042	6.840	567
52874	Beta 235 LED 932x40 AMPIO VT L1265	1	0.031	9.870	570
52876	Beta 235 LED 932x40 IPERCONC VT L1265	1	0.031	10.500	570
52877	Beta 235 LED 931x50 AMPIO VT L1265	1	0.031	9.120	570
52881	Beta 235 LED 932x40 AMPIO VS L1265	1	0.031	9.825	569
52883	Beta 235 LED 932x40 IPERCONC VS L1265	1	0.031	10.500	569
52884	Beta 235 LED 931x50 AMPIO VS L1265	1	0.031	9.080	569
52888	Beta 235 LED 752x45 DALI AMPIO L1265	1	0.042	8.125	554
52890	Beta 235 LED 752x45 DALI IPERCONC L1265	1	0.042	7.900	556
52895	Beta 235 LED 762x45 DALI AMPIO VT L1265	1	0.031	10.500	560

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52897	Beta 235 LED 762x45 DALI IPERCONC VT L1265	1	0.031	10.500	561
52902	Beta 235 LED 762x45 DALI AMPIO VS L1265	1	0.031	10.390	557
52904	Beta 235 LED 762x45 DALI IPERCONC VS L1265	1	0.031	10.500	559
52909	Beta 235 LED 922x40 DALI AMPIO L1265	1	0.042	7.900	567
52911	Beta 235 LED 922x40 DALI IPERCONC L1265	1	0.042	7.900	567
52916	Beta 235 LED 932x40 DALI AMPIO VT L1265	1	0.031	10.500	570
52918	Beta 235 LED 932x40 DALI IPERCONC VT L1265	1	0.031	10.500	570
52923	Beta 235 LED 932x40 DALI AMPIO VS L1265	1	0.031	10.500	569
52925	Beta 235 LED 932x40 DALI IPERCONC VS L1265	1	0.031	10.500	569
52930	Beta 235 LED 752x20 AMPIO L655	1	0.021	4.610	554
52931	Beta 235 LED 751x25 AMPIO L655	1	0.021	4.210	554
52936	Beta 235 LED 762x20 AMPIO VS L655	1	0.017	5.915	557
52937	Beta 235 LED 761x25 AMPIO VS L655	1	0.017	5.410	557
52939	Beta 235 LED 922x15 AMPIO L655	1	0.021	4.325	567
52940	Beta 235 LED 921x25 AMPIO L655	1	0.021	3.955	567
52945	Beta 235 LED 932x15 AMPIO VS L655	1	0.017	5.615	569
52946	Beta 235 LED 931x25 AMPIO VS L655	1	0.017	5.240	569
55006	i3F LED 752x30W CONC L1565	1	0.053	7.585	576
55017	i3F LED 752x30W EP CONC L1565	1	0.053	8.500	576
55072	i3F LED 762x30W AMPIO VT L1565	1	0.039	10.370	577
55083	i3F LED 762x30W EP AMPIO VT L1565	1	0.039	11.115	577
55134	i3F LED 762x12W AMPIO VS L655	1	0.017	4.775	577
55136	i3F LED 762x24W AMPIO VS L1265	1	0.031	8.450	577
55138	i3F LED 762x30W AMPIO VS L1565	1	0.039	10.300	577
55145	i3F LED 762x12W EP AMPIO VS L655	1	0.017	5.140	577
55147	i3F LED 762x24W EP AMPIO VS L1265	1	0.031	8.965	577
55149	i3F LED 762x30W EP AMPIO VS L1565	1	0.039	10.865	577
55596	i3F LED 752x12W AMPIO L655	1	0.017	3.470	576
55598	i3F LED 752x24W AMPIO L1265	1	0.042	6.250	576
55600	i3F LED 752x30W AMPIO L1565	1	0.053	7.360	576
55607	i3F LED 752x12W EP AMPIO L655	1	0.017	4.700	576
55609	i3F LED 752x24W EP AMPIO L1265	1	0.042	6.810	576
55611	i3F LED 752x30W EP AMPIO L1565	1	0.053	7.890	576
55666	i3F LED 762x30W CONC VT L1565	1	0.039	10.435	578
55677	i3F LED 762x30W EP CONC VT L1565	1	0.039	11.500	578
56330	3F CUB LED 100W CR VT	1	0.191	24.020	582
56332	3F CUB LED 100W DALI CR VT	1	0.191	24.730	582
56333	3F CUB LED 150W CR VT	1	0.191	24.740	582
56335	3F CUB LED 150W DALI CR VT	1	0.191	25.110	582
56337	3F CUB LED 100W CR VS	1	0.191	24.020	583
56339	3F CUB LED 100W DALI CR VS	1	0.191	24.300	583
56340	3F CUB LED 150W CR VS	1	0.191	24.120	583
56342	3F CUB LED 150W DALI CR VS	1	0.191	24.330	583
56344	3F CUB LED 100W CR SP	1	0.191	20.120	582
56346	3F CUB LED 100W DALI CR SP	1	0.191	20.110	582
56347	3F CUB LED 150W CR SP	1	0.191	20.240	582
56349	3F CUB LED 150W DALI CR SP	1	0.191	20.000	582
56439	3F LEM 1 HO LED 70 CR HRL	1	0.011	6.135	526
56440	3F LEM 2 HO LED 140 CR HRL	1	0.045	10.010	526
56441	3F LEM 3 HO LED 210 CR HRL	1	0.059	14.690	526
56442	3F LEM 1 HO LED 70 DALI CR HRL	1	0.011	6.480	526
56443	3F LEM 2 HO LED 140 DALI CR HRL	1	0.045	10.410	526
56444	3F LEM 3 HO LED 210 DALI CR HRL	1	0.059	15.530	526
56736	3F Tank Rock Lite 2x9W/840 L675	1	0.007	2.555	442
56737	3F Tank Rock Lite 2x18W/840 L1265	1	0.012	3.495	442
56738	3F Tank Rock Lite 2x22W/840 L1560	1	0.014	4.020	442
56739	3F Tank Rock Lite 2x9W/840 DALI L675	1	0.007	2.755	442
56740	3F Tank Rock Lite 2x18W/840 DALI L1265	1	0.012	3.695	442
56741	3F Tank Rock Lite 2x22W/840 DALI L1560	1	0.014	4.250	442
56742	3F Tank Rock Lite 2x9W/865 L675	1	0.007	2.555	442

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
56743	3F Tank Rock Lite 2x18W/865 L1265	1	0.012	3.495	442
56744	3F Tank Rock Lite 2x22W/865 L1560	1	0.014	4.020	442
56745	3F Tank Rock Lite 2x9W/865 DALI L675	1	0.007	2.755	442
56746	3F Tank Rock Lite 2x18W/865 DALI L1265	1	0.012	3.695	442
56747	3F Tank Rock Lite 2x22W/865 DALI L1560	1	0.014	4.250	442
56748	3F Tank Rock 13W/840 WIDE L675	1	0.007	2.815	443
56749	3F Tank Rock 45W/840 WIDE L1265	1	0.012	4.205	443
56750	3F Tank Rock 55W/840 WIDE L1560	1	0.014	4.745	443
56751	3F Tank Rock 70W/840 WIDE L1850	1	0.016	5.420	443
56752	3F Tank Rock 13W/840 DALI WIDE L675	1	0.007	3.015	443
56753	3F Tank Rock 45W/840 DALI WIDE L1265	1	0.012	4.405	443
56754	3F Tank Rock 55W/840 DALI WIDE L1560	1	0.014	4.945	443
56755	3F Tank Rock 70W/840 DALI WIDE L1850	1	0.016	5.620	443
56756	3F Tank Rock 13W/865 WIDE L675	1	0.007	2.815	443
56757	3F Tank Rock 45W/865 WIDE L1265	1	0.012	4.205	443
56758	3F Tank Rock 55W/865 WIDE L1560	1	0.014	4.745	443
56759	3F Tank Rock 70W/865 WIDE L1850	1	0.016	5.420	443
56760	3F Tank Rock 13W/865 DALI WIDE L675	1	0.007	3.015	443
56761	3F Tank Rock 45W/865 DALI WIDE L1265	1	0.012	4.405	443
56762	3F Tank Rock 55W/865 DALI WIDE L1560	1	0.014	4.945	443
56763	3F Tank Rock 70W/865 DALI WIDE L1850	1	0.016	5.620	443
56764	3F Tank Rock 13W/840 MEDIUM L675	1	0.007	2.815	444
56765	3F Tank Rock 45W/840 MEDIUM L1265	1	0.012	4.205	444
56766	3F Tank Rock 55W/840 MEDIUM L1560	1	0.014	4.745	444
56767	3F Tank Rock 70W/840 MEDIUM L1850	1	0.016	5.420	444
56768	3F Tank Rock 13W/840 DALI MEDIUM L675	1	0.007	3.015	444
56769	3F Tank Rock 45W/840 DALI MEDIUM L1265	1	0.012	4.405	444
56770	3F Tank Rock 55W/840 DALI MEDIUM L1560	1	0.014	4.945	444
56771	3F Tank Rock 70W/840 DALI MEDIUM L1850	1	0.016	5.620	444
56772	3F Tank Rock 13W/865 MEDIUM L675	1	0.007	2.815	444
56773	3F Tank Rock 45W/865 MEDIUM L1265	1	0.012	4.205	444
56774	3F Tank Rock 55W/865 MEDIUM L1560	1	0.014	4.745	444
56775	3F Tank Rock 70W/865 MEDIUM L1850	1	0.016	5.420	444
56776	3F Tank Rock 13W/865 DALI MEDIUM L675	1	0.007	3.015	444
56777	3F Tank Rock 45W/865 DALI MEDIUM L1265	1	0.012	4.405	444
56778	3F Tank Rock 55W/865 DALI MEDIUM L1560	1	0.014	4.945	444
56779	3F Tank Rock 70W/865 DALI MEDIUM L1850	1	0.016	5.620	444
56780	3F Tank Rock 13W/840 CONC L675	1	0.007	2.815	445
56781	3F Tank Rock 45W/840 CONC L1265	1	0.012	4.205	445
56782	3F Tank Rock 55W/840 CONC L1560	1	0.014	4.745	445
56783	3F Tank Rock 70W/840 CONC L1850	1	0.016	5.420	445
56784	3F Tank Rock 13W/840 DALI CONC L675	1	0.007	3.015	445
56785	3F Tank Rock 45W/840 DALI CONC L1265	1	0.012	4.405	445
56786	3F Tank Rock 55W/840 DALI CONC L1560	1	0.014	4.945	445
56787	3F Tank Rock 70W/840 DALI CONC L1850	1	0.016	5.620	445
56788	3F Tank Rock 13W/865 CONC L675	1	0.007	2.815	445
56789	3F Tank Rock 45W/865 CONC L1265	1	0.012	4.205	445
56790	3F Tank Rock 55W/865 CONC L1560	1	0.014	4.745	445
56791	3F Tank Rock 70W/865 CONC L1850	1	0.016	5.420	445
56792	3F Tank Rock 13W/865 DALI CONC L675	1	0.007	3.015	445
56793	3F Tank Rock 45W/865 DALI CONC L1265	1	0.012	4.405	445
56794	3F Tank Rock 55W/865 DALI CONC L1560	1	0.014	4.945	445
56795	3F Tank Rock 70W/865 DALI CONC L1850	1	0.016	5.620	445
56796	3F Tank Rock 13W/840 UGR L675	1	0.007	2.815	446
56797	3F Tank Rock 45W/840 UGR L1265	1	0.012	4.205	446
56798	3F Tank Rock 55W/840 UGR L1560	1	0.014	4.745	446
56799	3F Tank Rock 70W/840 UGR L1850	1	0.016	5.420	446
56800	3F Tank Rock 13W/840 DALI UGR L675	1	0.007	3.015	446
56801	3F Tank Rock 45W/840 DALI UGR L1265	1	0.012	4.405	446
56802	3F Tank Rock 55W/840 DALI UGR L1560	1	0.014	4.945	446

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
56803	3F Tank Rock 70W/840 DALI UGR L1850	1	0.016	5.620	446
56804	3F Tank Rock 13W/865 UGR L675	1	0.007	2.815	446
56805	3F Tank Rock 45W/865 UGR L1265	1	0.012	4.205	446
56806	3F Tank Rock 55W/865 UGR L1560	1	0.014	4.745	446
56807	3F Tank Rock 70W/865 UGR L1850	1	0.016	5.420	446
56808	3F Tank Rock 13W/865 DALI UGR L675	1	0.007	3.015	446
56809	3F Tank Rock 45W/865 DALI UGR L1265	1	0.012	4.405	446
56810	3F Tank Rock 55W/865 DALI UGR L1560	1	0.014	4.945	446
56811	3F Tank Rock 70W/865 DALI UGR L1850	1	0.016	5.620	446
57400	3F Rover S 18000/840 WIDE	1	0.023	5.185	424
57401	3F Rover S 25000/840 WIDE	1	0.023	5.185	424
57402	3F Rover D 35000/840 WIDE	1	0.060	10.750	424
57403	3F Rover D 50000/840 WIDE	1	0.060	10.750	424
57404	3F Rover S 18000/865 WIDE	1	0.023	5.185	424
57405	3F Rover S 25000/865 WIDE	1	0.023	5.185	424
57406	3F Rover D 35000/865 WIDE	1	0.060	10.750	424
57407	3F Rover D 50000/865 WIDE	1	0.060	10.750	424
57408	3F Rover S 18000/840 MEDIUM	1	0.023	5.185	425
57409	3F Rover S 25000/840 MEDIUM	1	0.023	5.185	425
57410	3F Rover D 35000/840 MEDIUM	1	0.060	10.750	425
57411	3F Rover D 50000/840 MEDIUM	1	0.060	10.750	425
57412	3F Rover S 18000/865 MEDIUM	1	0.023	5.185	425
57413	3F Rover S 25000/865 MEDIUM	1	0.023	5.185	425
57414	3F Rover D 35000/865 MEDIUM	1	0.060	10.750	425
57415	3F Rover D 50000/865 MEDIUM	1	0.060	10.750	425
57416	3F Rover S 18000/840 CONC	1	0.023	5.185	426
57417	3F Rover S 25000/840 CONC	1	0.023	5.185	426
57418	3F Rover D 35000/840 CONC	1	0.060	10.750	426
57419	3F Rover D 50000/840 CONC	1	0.060	10.750	426
57420	3F Rover S 18000/865 CONC	1	0.023	5.185	426
57421	3F Rover S 25000/865 CONC	1	0.023	5.185	426
57422	3F Rover D 35000/865 CONC	1	0.060	10.750	426
57423	3F Rover D 50000/865 CONC	1	0.060	10.750	426
57424	3F Rover S 18000/840 HRL	1	0.023	5.185	427
57425	3F Rover S 25000/840 HRL	1	0.023	5.185	427
57426	3F Rover D 35000/840 HRL	1	0.060	10.750	427
57427	3F Rover D 50000/840 HRL	1	0.060	10.750	427
57428	3F Rover S 18000/865 HRL	1	0.023	5.185	427
57429	3F Rover S 25000/865 HRL	1	0.023	5.185	427
57430	3F Rover D 35000/865 HRL	1	0.060	10.750	427
57431	3F Rover D 50000/865 HRL	1	0.060	10.750	427
57432	3F Rover S 18000/840 D2D WIDE	1	0.023	5.285	424
57433	3F Rover S 25000/840 D2D WIDE	1	0.023	5.285	424
57434	3F Rover D 35000/840 D2D WIDE	1	0.060	10.850	424
57435	3F Rover D 50000/840 D2D WIDE	1	0.060	10.850	424
57436	3F Rover S 18000/865 D2D WIDE	1	0.023	5.285	424
57437	3F Rover S 25000/865 D2D WIDE	1	0.023	5.285	424
57438	3F Rover D 35000/865 D2D WIDE	1	0.060	10.850	424
57439	3F Rover D 50000/865 D2D WIDE	1	0.060	10.850	424
57440	3F Rover S 18000/840 D2D MEDIUM	1	0.023	5.285	425
57441	3F Rover S 25000/840 D2D MEDIUM	1	0.023	5.285	425
57442	3F Rover D 35000/840 D2D MEDIUM	1	0.060	10.850	425
57443	3F Rover D 50000/840 D2D MEDIUM	1	0.060	10.850	425
57444	3F Rover S 18000/865 D2D MEDIUM	1	0.023	5.285	425
57445	3F Rover S 25000/865 D2D MEDIUM	1	0.023	5.285	425
57446	3F Rover D 35000/865 D2D MEDIUM	1	0.060	10.850	425
57447	3F Rover D 50000/865 D2D MEDIUM	1	0.060	10.850	425
57448	3F Rover S 18000/840 D2D CONC	1	0.023	5.285	426
57449	3F Rover S 25000/840 D2D CONC	1	0.023	5.285	426
57450	3F Rover D 35000/840 D2D CONC	1	0.060	10.850	426

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
57451	3F Rover D 50000/840 D2D CONC	1	0.060	10.850	426
57452	3F Rover S 18000/865 D2D CONC	1	0.023	5.285	426
57453	3F Rover S 25000/865 D2D CONC	1	0.023	5.285	426
57454	3F Rover D 35000/865 D2D CONC	1	0.060	10.850	426
57455	3F Rover D 50000/865 D2D CONC	1	0.060	10.850	426
57456	3F Rover S 18000/840 D2D HRL	1	0.023	5.285	427
57457	3F Rover S 25000/840 D2D HRL	1	0.023	5.285	427
57458	3F Rover D 35000/840 D2D HRL	1	0.060	10.850	427
57459	3F Rover D 50000/840 D2D HRL	1	0.060	10.850	427
57460	3F Rover S 18000/865 D2D HRL	1	0.023	5.285	427
57461	3F Rover S 25000/865 D2D HRL	1	0.023	5.285	427
57462	3F Rover D 35000/865 D2D HRL	1	0.060	10.850	427
57463	3F Rover D 50000/865 D2D HRL	1	0.060	10.850	427
57468	3F Rover S 25000/840 SenseHBZQ WIDE	1	0.023	5.585	430
57469	3F Rover D 50000/840 SenseHBZQ WIDE	1	0.060	11.250	430
57470	3F Rover S 25000/865 SenseHBZQ WIDE	1	0.023	5.585	430
57471	3F Rover D 50000/865 SenseHBZQ WIDE	1	0.060	11.250	430
57476	3F Rover S 25000/840 SenseHBZQ MEDIUM	1	0.023	5.585	430
57477	3F Rover D 50000/840 SenseHBZQ MEDIUM	1	0.060	11.250	430
57478	3F Rover S 25000/865 SenseHBZQ MEDIUM	1	0.023	5.585	430
57479	3F Rover D 50000/865 SenseHBZQ MEDIUM	1	0.060	11.250	430
57484	3F Rover S 25000/840 SenseHBZQ CONC	1	0.023	5.585	431
57485	3F Rover D 50000/840 SenseHBZQ CONC	1	0.060	11.250	431
57486	3F Rover S 25000/865 SenseHBZQ CONC	1	0.023	5.585	431
57487	3F Rover D 50000/865 SenseHBZQ CONC	1	0.060	11.250	431
57492	3F Rover S 25000/840 SenseHBZQ HRL	1	0.023	5.585	431
57493	3F Rover D 50000/840 SenseHBZQ HRL	1	0.060	11.250	431
57494	3F Rover S 25000/865 SenseHBZQ HRL	1	0.023	5.585	431
57495	3F Rover D 50000/865 SenseHBZQ HRL	1	0.060	11.250	431
57496	3F Rover S 25000/840 SenseMBZQ WIDE	1	0.023	5.585	430
57498	3F Rover D 50000/840 SenseMBZQ WIDE	1	0.060	11.250	430
57499	3F Rover S 25000/865 SenseMBZQ WIDE	1	0.023	5.585	430
57500	3F Rover D 50000/865 SenseMBZQ WIDE	1	0.060	11.250	430
57501	3F Rover S 25000/840 SenseMBZQ MEDIUM	1	0.023	5.585	430
57502	3F Rover D 50000/840 SenseMBZQ MEDIUM	1	0.060	11.250	430
57503	3F Rover S 25000/865 SenseMBZQ MEDIUM	1	0.023	5.585	430
57504	3F Rover D 50000/865 SenseMBZQ MEDIUM	1	0.060	11.250	430
57505	3F Rover S 25000/840 SenseMBZQ CONC	1	0.023	5.585	431
57507	3F Rover D 50000/840 SenseMBZQ CONC	1	0.060	11.250	431
57508	3F Rover S 25000/865 SenseMBZQ CONC	1	0.023	5.585	431
57509	3F Rover D 50000/865 SenseMBZQ CONC	1	0.060	11.250	431
57510	3F Rover S 25000/840 SenseMBZQ HRL	1	0.023	5.585	431
57511	3F Rover D 50000/840 SenseMBZQ HRL	1	0.060	11.250	431
57512	3F Rover S 25000/865 SenseMBZQ HRL	1	0.023	5.585	431
57513	3F Rover D 50000/865 SenseMBZQ HRL	1	0.060	11.250	431
57703	3F Linda LED HO 1x50W/840 L1270	1	0.016	2.350	480
57704	3F Linda LED HO 1x62W/840 L1570	1	0.020	2.830	480
57711	3F Linda LED HO 1x50W/840 EP L1270	1	0.016	2.755	480
57712	3F Linda LED HO 1x62W/840 EP L1570	1	0.020	3.310	480
57719	3F Linda LED HO 1x50W/840 DALI L1270	1	0.016	2.360	480
57720	3F Linda LED HO 1x62W/840 DALI L1570	1	0.020	2.845	480
57727	3F Linda LED HO 1x50W/840 DALI EP L1270	1	0.016	2.755	480
57728	3F Linda LED HO 1x62W/840 DALI EP L1570	1	0.020	3.310	480
57733	3F Linda LED HO 2x40W/840 L1570	1	0.030	4.155	480
57734	3F Linda LED HO 2x40W/840 EP L1570	1	0.030	4.500	480
57735	3F Linda LED HO 2x40W/840 DALI L1570	1	0.030	4.155	480
57736	3F Linda LED HO 2x40W/840 DALI EP L1570	1	0.030	4.500	480
57743	3F Linda LED HT 1x18W/840 L1570	1	0.020	2.765	492
57744	3F Linda LED HT 2x13W/840 L1570	1	0.030	3.675	492
57745	3F Linda LED HT 2x18W/840 L1570	1	0.030	3.625	492

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Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
57747	3F Linda LED HT 1x18W/865 L1570	1	0.020	2.765	492
57748	3F Linda LED HT 2x13W/865 L1570	1	0.030	2.765	492
57749	3F Linda LED HT 2x18W/865 L1570	1	0.030	2.765	492
58457	3F Linda LED Ice 1x24W UR95 L1270	1	0.016	2.560	500
58459	3F Linda LED Ice 2x24W UR95 L1270	1	0.024	3.225	500
58461	3F Linda LED Ice 1x30W UR95 L1570	1	0.020	2.975	500
58463	3F Linda LED Ice 2x30W UR95 L1570	1	0.030	3.830	500
58470	3F Linda LED 1x12W ATEX 3D L660	1	0.008	1.265	484
58471	3F Linda LED 2x12W ATEX 3D L660	1	0.013	1.845	484
58472	3F Linda LED 1x24W ATEX 3D L1270	1	0.016	2.330	484
58473	3F Linda LED 2x24W ATEX 3D L1270	1	0.024	3.050	484
58474	3F Linda LED 1x30W ATEX 3D L1570	1	0.020	2.765	484
58475	3F Linda LED 2x30W ATEX 3D L1570	1	0.030	3.760	484
58549	3F Linda LED 1x12W DALI L660	1	0.008	1.280	472
58550	3F Linda LED 2x12W DALI L660	1	0.013	1.820	472
58551	3F Linda LED 1x24W DALI L1270	1	0.016	2.355	472
58552	3F Linda LED 2x24W DALI L1270	1	0.024	3.110	472
58553	3F Linda LED 1x30W DALI L1570	1	0.020	2.890	472
58554	3F Linda LED 2x30W DALI L1570	1	0.030	3.660	472
58561	3F Linda LED 1x12W L660	1	0.008	1.190	472
58563	3F Linda LED 1x6W L660	1	0.008	1.285	472
58567	3F Linda LED 1x12W EP LA L660	1	0.013	2.160	473
58569	3F Linda LED 1x6W EP LA L660	1	0.013	2.225	473
58572	3F Linda LED 2x12W L660	1	0.013	1.845	472
58583	3F Linda LED 1x24W L1270	1	0.016	2.330	472
58584	3F Linda LED 1x24W/865 L1270	1	0.016	2.320	472
58585	3F Linda LED 1x24W/830 L1270	1	0.016	2.365	472
58586	3F Linda LED 1x18W L1270	1	0.016	2.340	472
58589	3F Linda LED 1x24W EP L1270	1	0.016	2.705	473
58590	3F Linda LED 1x24W/865 EP L1270	1	0.016	2.755	473
58591	3F Linda LED 1x24W/830 EP L1270	1	0.016	2.760	473
58592	3F Linda LED 1x18W EP L1270	1	0.016	3.100	473
58594	3F Linda LED 2x24W L1270	1	0.024	3.050	472
58595	3F Linda LED 2x24W/865 L1270	1	0.024	3.025	472
58596	3F Linda LED 2x24W/830 L1270	1	0.024	3.050	472
58597	3F Linda LED 2x18W L1270	1	0.024	3.020	472
58600	3F Linda LED 2x24W EP L1270	1	0.024	3.645	473
58601	3F Linda LED 2x24W/865 EP L1270	1	0.024	3.530	473
58602	3F Linda LED 2x24W/830 EP L1270	1	0.024	3.440	473
58603	3F Linda LED 2x18W EP L1270	1	0.024	3.465	473
58605	3F Linda LED 1x30W L1570	1	0.020	2.820	472
58606	3F Linda LED 1x30W/865 L1570	1	0.020	2.820	472
58607	3F Linda LED 1x30W/830 L1570	1	0.020	2.820	472
58608	3F Linda LED 1x22W L1570	1	0.020	2.940	472
58611	3F Linda LED 1x30W EP L1570	1	0.020	3.200	473
58612	3F Linda LED 1x30W/865 EP L1570	1	0.020	3.310	473
58613	3F Linda LED 1x30W/830 EP L1570	1	0.020	3.210	473
58614	3F Linda LED 1x22W EP L1570	1	0.020	3.090	473
58616	3F Linda LED 2x30W L1570	1	0.030	3.760	472
58617	3F Linda LED 2x30W/865 L1570	1	0.030	3.685	472
58618	3F Linda LED 2x30W/830 L1570	1	0.030	3.670	472
58619	3F Linda LED 2x22W L1570	1	0.030	3.620	472
58623	3F Linda LED 2x30W EP L1570	1	0.030	4.315	473
58624	3F Linda LED 2x30W/865 EP L1570	1	0.030	4.205	473
58625	3F Linda LED 2x30W/830 EP L1570	1	0.030	4.305	473
58626	3F Linda LED 2x22W EP L1570	1	0.030	4.265	473
58630	3F Linda LED 2x24W CONC L1270	1	0.024	3.335	475
58632	3F Linda LED 2x30W CONC L1570	1	0.030	4.065	475
58638	3F Linda LED 1x30W Sensor L1570	1	0.020	2.845	504
58642	3F Linda LED 2x30W Sensor L1570	1	0.030	3.810	504

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
58645	3F Linda LED 1x30W Sensor CF L1570	1	0.020	2.840	504
58649	3F Linda LED 2x30W Sensor CF L1570	1	0.030	3.725	504
58659	3F Linda LED 2x24W AMPIO L1270	1	0.024	3.335	474
58661	3F Linda LED 2x30W AMPIO L1570	1	0.030	4.025	474
58705	3F Linda LED 1x12W ENP LA L660	1	0.013	2.105	473
58713	3F Linda LED 1x24W ENP L1270	1	0.016	2.465	473
58722	3F Linda LED HS 1x24W L1270	1	0.016	2.350	488
58724	3F Linda LED HS 1x30W L1570	1	0.020	2.795	488
58728	3F Linda LED HS 2x24W L1270	1	0.024	3.100	488
58730	3F Linda LED HS 2x30W L1570	1	0.030	3.660	488
58731	3F Linda LED Soft 1x12W L660	1	0.008	1.260	476
58732	3F Linda LED Soft 2x12W L660	1	0.013	1.770	476
58733	3F Linda LED Soft 1x24W L1270	1	0.016	2.345	476
58734	3F Linda LED Soft 1x30W L1570	1	0.020	2.800	476
58735	3F Linda LED Soft 1x24W DALI L1270	1	0.016	2.310	476
58736	3F Linda LED Soft 1x30W DALI L1570	1	0.020	2.840	476
58737	3F Linda LED Soft 2x24W L1270	1	0.024	2.920	476
58738	3F Linda LED Soft 2x24W DALI L1270	1	0.024	3.100	476
58751	3F Linda LED Soft 2x22W L1570	1	0.030	3.670	476
58752	3F Linda LED Soft 2x30W L1570	1	0.030	3.770	476
58753	3F Linda LED Soft 2x22W DALI L1570	1	0.030	3.595	476
58754	3F Linda LED Soft 2x30W DALI L1570	1	0.030	3.765	476
58762	3F Linda LED Basic 1x19W L1270	1	0.016	2.350	475
58763	3F Linda LED Basic 2x19W L1270	1	0.024	3.010	475
58764	3F Linda LED Basic 1x23W L1570	1	0.020	2.650	475
58765	3F Linda LED Basic 2x23W L1570	1	0.030	3.655	475
58766	3F Linda LED Basic ST 2x16W L1270	1	0.016	2.255	475
58767	3F Linda LED Basic ST 2x20W L1570	1	0.020	2.750	475
58786	3F Linda LED 1x24W Sensor DALI-BLE L1270	1	0.016	2.320	505
58787	3F Linda LED 1x30W Sensor DALI-BLE L1570	1	0.020	2.775	505
58788	3F Linda LED 2x24W Sensor DALI-BLE L1270	1	0.024	3.320	505
58789	3F Linda LED 2x30W Sensor DALI-BLE L1570	1	0.030	3.810	505
58852	3F Linda LED Lite TR 1x12W L660	1	0.008	1.255	496
58853	3F Linda LED Lite TR 1x19W L1270	1	0.016	2.310	496
58854	3F Linda LED Lite TR 1x23W L1570	1	0.020	2.780	496
58855	3F Linda LED Lite TR 2x16W L1270	1	0.024	2.760	496
58856	3F Linda LED Lite TR 2x20W L1570	1	0.030	3.230	496
58867	3F Linda LED 1x12W/940 L660	1	0.008	1.265	474
58868	3F Linda LED 2x12W/940 L660	1	0.013	1.845	474
58869	3F Linda LED 1x24W/940 L1270	1	0.016	2.365	474
58870	3F Linda LED 2x24W/940 L1270	1	0.024	3.050	474
58871	3F Linda LED 1x30W/940 L1570	1	0.020	2.765	474
58872	3F Linda LED 2x30W/940 L1570	1	0.030	3.760	474
58873	3F Linda LED 1x12W/940 DALI L660	1	0.008	1.420	474
58874	3F Linda LED 2x12W/940 DALI L660	1	0.013	1.945	474
58875	3F Linda LED 1x24W/940 DALI L1270	1	0.016	2.355	474
58876	3F Linda LED 2x24W/940 DALI L1270	1	0.024	3.110	474
58877	3F Linda LED 1x30W/940 DALI L1570	1	0.020	2.890	474
58878	3F Linda LED 2x30W/940 DALI L1570	1	0.030	3.660	474
58881	3F LEM 1 LED 50 CR AMPIO	1	0.011	6.150	518
58882	3F LEM 2 LED 100 CR AMPIO	1	0.045	10.075	518
58883	3F LEM 3 LED 150 CR AMPIO	1	0.059	14.895	518
58884	3F LEM 4 LED 200 CR AMPIO	1	0.068	18.665	518
58885	3F LEM 1+1 LED 100 CR AMPIO	1	0.021	11.080	518
58886	3F LEM 5 LED 250 CR AMPIO	1	0.081	22.400	518
58887	3F LEM 1 LED 50 CR CONC	1	0.011	6.160	520
58888	3F LEM 2 LED 100 CR CONC	1	0.045	10.040	520
58889	3F LEM 3 LED 150 CR CONC	1	0.059	14.580	520
58890	3F LEM 4 LED 200 CR CONC	1	0.068	18.780	520
58893	3F LEM 2 LED 100 CR MEDIO	1	0.045	10.070	519

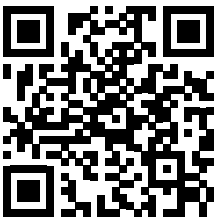
Analytical guide

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
58894	3F LEM 3 LED 150 CR MEDIO	1	0.059	14.575	519
58895	3F LEM 4 LED 200 CR MEDIO	1	0.068	18.000	519
58896	3F LEM 1+1 LED 100 CR MEDIO	1	0.021	10.960	519
58897	3F LEM 5 LED 250 CR MEDIO	1	0.081	23.145	519
58899	3F LEM 1 LED 50 DALI CR AMPIO	1	0.011	6.535	518
58900	3F LEM 2 LED 100 DALI CR AMPIO	1	0.045	10.160	518
58901	3F LEM 3 LED 150 DALI CR AMPIO	1	0.059	14.885	518
58902	3F LEM 4 LED 200 DALI CR AMPIO	1	0.068	18.745	518
58903	3F LEM 1+1 LED 100 DALI CR AMPIO	1	0.021	11.285	518
58904	3F LEM 5 LED 250 DALI CR AMPIO	1	0.081	24.575	518
58905	3F LEM 1 LED 50 DALI CR CONC	1	0.011	6.595	520
58906	3F LEM 2 LED 100 DALI CR CONC	1	0.045	10.085	520
58907	3F LEM 3 LED 150 DALI CR CONC	1	0.059	15.600	520
58908	3F LEM 4 LED 200 DALI CR CONC	1	0.068	18.000	520
58911	3F LEM 2 LED 100 DALI CR MEDIO	1	0.045	10.110	519
58912	3F LEM 3 LED 150 DALI CR MEDIO	1	0.059	15.205	519
58913	3F LEM 4 LED 200 DALI CR MEDIO	1	0.068	18.290	519
58914	3F LEM 1+1 LED 100 DALI CR MEDIO	1	0.021	10.800	519
58915	3F LEM 5 LED 250 DALI CR MEDIO	1	0.081	22.400	519
58953	3F LEM 1 HO LED 70 CR AMPIO	1	0.011	6.240	524
58954	3F LEM 2 HO LED 140 CR AMPIO	1	0.045	10.115	524
58955	3F LEM 3 HO LED 210 CR AMPIO	1	0.059	14.870	524
58956	3F LEM 4 HO LED 280 CR AMPIO	1	0.068	18.685	524
58957	3F LEM 1+1 HO LED 140 CR AMPIO	1	0.021	11.100	524
58958	3F LEM 5 HO LED 350 CR AMPIO	1	0.081	23.445	524
58959	3F LEM 1 HO LED 70 CR CONC	1	0.011	6.135	525
58960	3F LEM 2 HO LED 140 CR CONC	1	0.045	10.010	525
58961	3F LEM 3 HO LED 210 CR CONC	1	0.059	14.690	525
58965	3F LEM 2 HO LED 140 CR MEDIO	1	0.045	10.040	525
58966	3F LEM 3 HO LED 210 CR MEDIO	1	0.059	14.720	525
58967	3F LEM 4 HO LED 280 CR MEDIO	1	0.068	18.600	525
58968	3F LEM 1+1 HO LED 140 CR MEDIO	1	0.021	11.005	525
58969	3F LEM 5 HO LED 350 CR MEDIO	1	0.081	23.155	525
58971	3F LEM 1 HO LED 70 DALI CR AMPIO	1	0.011	7.000	524
58972	3F LEM 2 HO LED 140 DALI CR AMPIO	1	0.045	10.190	524
58973	3F LEM 3 HO LED 210 DALI CR AMPIO	1	0.059	14.925	524
58974	3F LEM 4 HO LED 280 DALI CR AMPIO	1	0.068	18.590	524
58975	3F LEM 1+1 HO LED 140 DALI CR AMPIO	1	0.021	11.100	524
58976	3F LEM 5 HO LED 350 DALI CR AMPIO	1	0.081	23.205	524
58977	3F LEM 1 HO LED 70 DALI CR CONC	1	0.011	6.480	525
58978	3F LEM 2 HO LED 140 DALI CR CONC	1	0.045	10.410	525
58979	3F LEM 3 HO LED 210 DALI CR CONC	1	0.059	15.530	525
58983	3F LEM 2 HO LED 140 DALI CR MEDIO	1	0.045	10.800	525
58984	3F LEM 3 HO LED 210 DALI CR MEDIO	1	0.059	15.165	525
58985	3F LEM 4 HO LED 280 DALI CR MEDIO	1	0.068	19.100	525
58986	3F LEM 1+1 HO LED 140 DALI CR MEDIO	1	0.021	11.100	525
58987	3F LEM 5 HO LED 350 DALI CR MEDIO	1	0.081	23.310	525
59026	3F LEM 2 HT LED 60 CR AMPIO	1	0.045	9.945	534
59027	3F LEM 3 HT LED 90 CR AMPIO	1	0.059	14.365	534
59028	3F LEM 4 HT LED 120 CR AMPIO	1	0.068	18.585	534
59030	3F LEM 5 HT LED 150 CR AMPIO	1	0.081	22.855	534
59032	3F LEM 2 HT LED 60 CR CONC	1	0.045	10.215	535
59033	3F LEM 3 HT LED 90 CR CONC	1	0.059	14.800	535
59034	3F LEM 4 HT LED 120 CR CONC	1	0.068	17.500	535
59039	3F LEM 4 HT LED 120 CR MEDIO	1	0.068	17.500	534
59041	3F LEM 5 HT LED 150 CR MEDIO	1	0.081	22.815	534
59086	3F LEM 2 SPORT LED 100 CR MEDIO	1	0.045	10.600	538
59087	3F LEM 3 SPORT LED 150 CR MEDIO	1	0.059	14.830	538
59088	3F LEM 4 SPORT LED 200 CR MEDIO	1	0.068	18.665	538
59099	3F LEM 2 SPORT LED 100 DALI CR MEDIO	1	0.045	10.600	538

Code	Item	Pack			Page
		Pcs	m³	Gross weight in kg	
59100	3F LEM 3 SPORT LED 150 DALI CR MEDIO	1	0.059	15.700	538
59101	3F LEM 4 SPORT LED 200 DALI CR MEDIO	1	0.068	18.865	538
59125	3F LEM 2 HO SPORT LED 180 CR MEDIO	1	0.045	10.600	542
59126	3F LEM 3 HO SPORT LED 270 CR MEDIO	1	0.059	15.700	542
59138	3F LEM 2 HO SPORT LED 180 DALI CR MEDIO	1	0.045	10.600	542
59139	3F LEM 3 HO SPORT LED 270 DALI CR MEDIO	1	0.059	15.100	542
59157	3F LEM 1 LED 50/865 CR AMPIO	1	0.011	7.000	518
59158	3F LEM 2 LED 100/865 CR AMPIO	1	0.045	10.100	518
59159	3F LEM 3 LED 150/865 CR AMPIO	1	0.059	14.795	518
59160	3F LEM 4 LED 200/865 CR AMPIO	1	0.068	18.480	518
59161	3F LEM 1+1 LED 100/865 CR AMPIO	1	0.021	11.090	518
59164	3F LEM 2 LED 100/865 CR CONC	1	0.045	10.500	520
59165	3F LEM 3 LED 150/865 CR CONC	1	0.059	15.600	520
59166	3F LEM 4 LED 200/865 CR CONC	1	0.068	18.470	520
59253	3F LEM 2 LED 100 DALI Sensor CR AMPIO	1	0.059	13.000	530
59254	3F LEM 3 LED 150 DALI Sensor CR AMPIO	1	0.081	17.100	530
59255	3F LEM 4 LED 200 DALI Sensor CR AMPIO	1	0.081	19.500	530
59259	3F LEM 2 LED 100 DALI Sensor CR CONC	1	0.059	13.000	531
59260	3F LEM 3 LED 150 DALI Sensor CR CONC	1	0.081	17.000	531
59261	3F LEM 4 LED 200 DALI Sensor CR CONC	1	0.081	19.500	531
59265	3F LEM 2 LED 100 DALI Sensor CR MEDIO	1	0.059	13.000	530
59266	3F LEM 3 LED 150 DALI Sensor CR MEDIO	1	0.081	17.000	530
59267	3F LEM 4 LED 200 DALI Sensor CR MEDIO	1	0.081	19.500	530
1E3048	CASAMBI DALI CONTROL UNIT IP67	1		0.230	658
1E4369	CASAMBI EXTENDER IP67 V.2	1		0.600	658
1T5349	CASAMBI DALI CONTROL UNIT IP20	1		0.080	658
1T5350	CASAMBI WALL SWITCH XPRESS BLK	1		0.108	659
1T5351	CASAMBI PHASE CUT CONTROL UNIT IP20	1		0.030	659
1T7944	CASAMBI DIMMER BLUETOOTH 24V PWM	1		0.055	659
260092	L 353x14W LED SP 54V 596x596	1	0.029	5.025	208
260094	L 353x14W LED DALI SP 54V 596x596	1	0.029	4.685	208
270931	L 561x12W LED 2S 221x647	1	0.016	2.725	222
270933	L 561x24W LED 2S 221x1256	1	0.031	5.000	222
270935	L 561x30W LED 2S 221x1556	1	0.039	6.270	222
270937	L 562x12W LED 2S 221x647	1	0.016	2.885	222
270939	L 562x24W LED 2S 221x1256	1	0.031	5.310	222
270941	L 562x30W LED 2S 221x1556	1	0.039	6.160	222
270957	L 561x12W LED SP 221x647	1	0.016	3.015	222
270959	L 561x24W LED SP 221x1256	1	0.031	5.490	222
270961	L 561x30W LED SP 221x1556	1	0.039	7.050	222
270963	L 562x12W LED SP 221x647	1	0.016	3.195	222
270965	L 562x24W LED SP 221x1256	1	0.031	5.670	222
270967	L 562x30W LED SP 221x1556	1	0.039	6.555	222
2T0131	CASAMBI EXTENDER IP20 V.2	1		0.135	658
2T0132	CASAMBI WALL SWITCH XPRESS WHT	1		0.108	659
1T8173CA	BRIDGE DALI/CASAMBI	1		0.030	659



/Commercial Network



/3f-filippi.com

/Legend

/Catalogue sections


Surface luminaires and suspensions


Waterproof and corrosionproof


Recessed luminaires


Outdoor


Systems and track-mounted products


Light Management

/Applications


Industry


Retail


Sport


Offices


Healthcare


Transport


Architecture


Schools

/Symbols


Certification

ICE
Watertight product suitable for installation in cold rooms


Resistance against ball impacts in accordance with DIN 18032-3



ENEC Certified product

650°
Glow wire resistance temperature



Protection against electric shock - Appliance class


Product compliant with IEC TR 61547-1 and IEC TR 63158 standards (“Infopoint” section)

IP20
Overall IP rating


Luminaire suitable for offices

EP
Maintained emergency wiring

IP20
IP23
IP rating of recessed part
IP rating of exposed part



Tunable White

ENP
Non-permanent emergency wiring

ATEX
Product compliant with ATEX regulations (“Infopoint” section)



Safety Extra-Low Voltage Separated power source



Luminaires with electronic wiring and limited surface temperature

5J
IK08
Mechanical strength to impacts

HACCP
Luminaires suitable, from a hygienic point of view, for use in production plants in the food industry (HACCP / IFS / BRC-Standard)

/Colors

WH | White / Matt White

AL | Aluminium

GR | Grey

BK | Black / Matt Black

AN | Anthracite

RD | Red

/Legend

/Acronyms

1x -> 6x Number of sources
2MG specular louvre, high efficiency
2S semi-specular louvre
2US semi-glossy louvre
3AO Matt silver decorative louvre
3DEC White decorative louvre
AB White trim
AMPIO Wide distribution
AS Asymmetric
BAT Batwing distribution - dual asymmetric
BAT WD Batwing distribution - dual asymmetric wide
CLO Constant light output ("Management of light" section)
CONC Concentrated distribution
CR Fast connection
D Curved diffuser
D1-10V Dimmable 1 - 10 volt wiring
DA Twin-circuit
DALI DALI digital dimmable wiring
DALI DT8 DALI dimmable cabling for Tunable White
DE Dual emission
DI Direct – indirect light output
DR Rectangular diffuser
DT Trapezoidal diffuser
DX Right
E Efficiency
ELL Elliptical transparent methacrylate lenses
ENP Non-permanent emergency lighting
EP Permanent emergency lighting
EXT External
FCH Version for metal panels with high structures
FCL Version for metal panels with low structures
FD Fixture suitable FDP or FDO
FDO Flat Diffuser Opal
FDP Flat Diffuser Microprismatic
FP Version for Plasterboard
FRONT Asymmetric distribution with deep bilateral
GSP Glare Screen Prismatic
HCL Human centric lighting (section"Management of light")
HO High Output
HS Hard Skin - high chemical resistant body
HST Glass stabilised via heat soak test
HT High temperature
IND Indirect light output
INT Internal
IPERCONC Iperconcentrated distribution
L Lenses
LA Wide version luminaire
LED Light emitting diode
LGS Flat PMMA, with low luminance microprismatic cover
Lxxxx Appliance length xxxx millimetres
MEDIUM Medium distribution
MEDIO Medium distribution
NL No power line
OCB Optics Control Black - LEED Compliant
OCW Optics Control White - LEED Compliant
OP Opal
P Surface luminaire
PC Polycarbonate
PCD Phase cut dimmable wiring
R Recessed version
RSP Flow recuperator with prismatic screen
RVS Flow recuperator and molded glass
RVSS Flux recuperator and laminated moulded glass
S Structure
Sensor Sensor ("Management of light" section)
Sensor CF Sensor with corridor function ("Management of light" section)
SL Flat smooth diffuser in methacrylate
SMP Flat cover microprismatic
SOP Opal PMMA flat diffuser
SP Flat diffuser, prismatic in methacrylate
SP PC Flat PMMA prismatic cover
SPOT Concentrated distribution
ST Narrow body
SX Left
TK Product installable on Binario 3F
TW Tunable White
UGR Luminance control lens
UR95 Resistent to relative humidity up to 95%
VA Frosted glass
VOP Opal enamelled glass
VS Moulded glass
VSS Laminated moulded glass
VT Transparent glass
WIDE Wide distribution

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Photographers
Beppe Giardino
Fabrizio Carbone
Fabio Lercara
Fiat Chrysler Automobiles
Francesco Rioda
Gabriottifotografi
Ing. Ferrari S.p.A.
Ivan Rossi
Martex S.p.A.
Massimo Spada
Miro Zagnoli
Stefano Anzini

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3F Filippi S.p.A.
Via del Savena 28, Z.I. Piastrella
40065 Pian di Macina, Pianoro (Bologna), Italy
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W www.3F-Filippi.com
M export@3f-filippi.it
T 39 051 652 9611
F +39 051 775 884