

LIGHTING

INDUSTRY

ATEX

INFRASTRUCTURE

MARINE

CATALOGUE
2025 -2026

Palazzoli

Let's be inspired

Lighting catalogue

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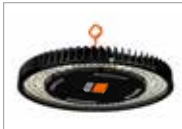
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A solution for any and every field

Palazzoli stands out for its ability to offer tailor-made solutions for every sector, with reliable products designed for complex and highly specialized environments.



Industry



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Ideal solutions for extreme and demanding environments.

- HIGH TEMPERATURES up to **+70 °C**
- LOW TEMPERATURES up to **-40 °C**
- STEEL PLANTS
- SPORTS FACILITIES AND LARGE AREAS
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Certified solutions for high-risk explosive environments.

- MINES AND TUNNEL EXCAVATIONS group **IM2**
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Infrastructure



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Solutions suitable for the smart and safe management of public spaces.

- ROADS
- MOTORWAYS
- TUNNELS
- ROUNDABOUTS
- CYCLE PATHS
- SQUARES AND CAR PARKS



Marine



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Corrosion-resistant solutions, even in extreme marine conditions.

- TECHNICAL ROOMS
- KITCHENS AND PANTRIES
- EXTERNAL AREAS ON BOARD
- CRUISE SHIPS
- FERRIES
- MILITARY VESSELS
- CARGO SHIPS
- OFFSHORE PLATFORMS

1904 the birth

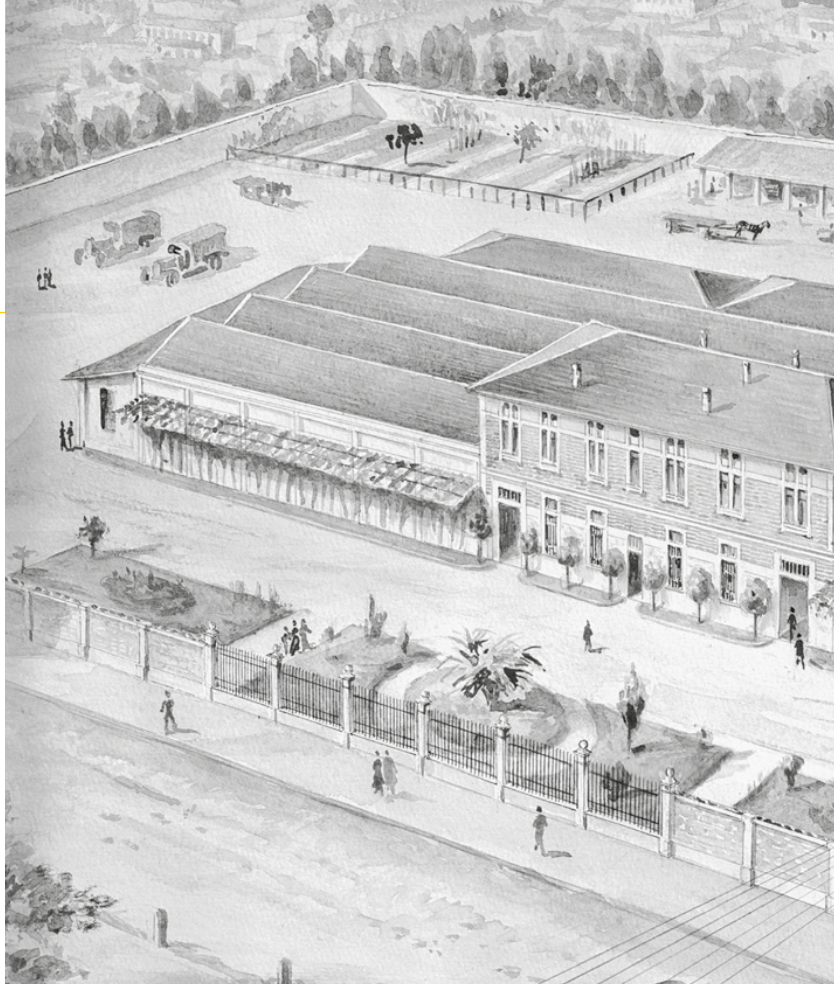
Growing up in a territory of ancient industrial history, for more than a century, Palazzoli has helped to carry forward, with its commitment and profusion of energy, the pride of Italian entrepreneurship. A shrewd and far-sighted interpreter of the changes that society, in particular the industrial sector, was gradually undergoing, it has made its contribution especially in sectors that present the most difficult challenges and require increasingly specific skills.

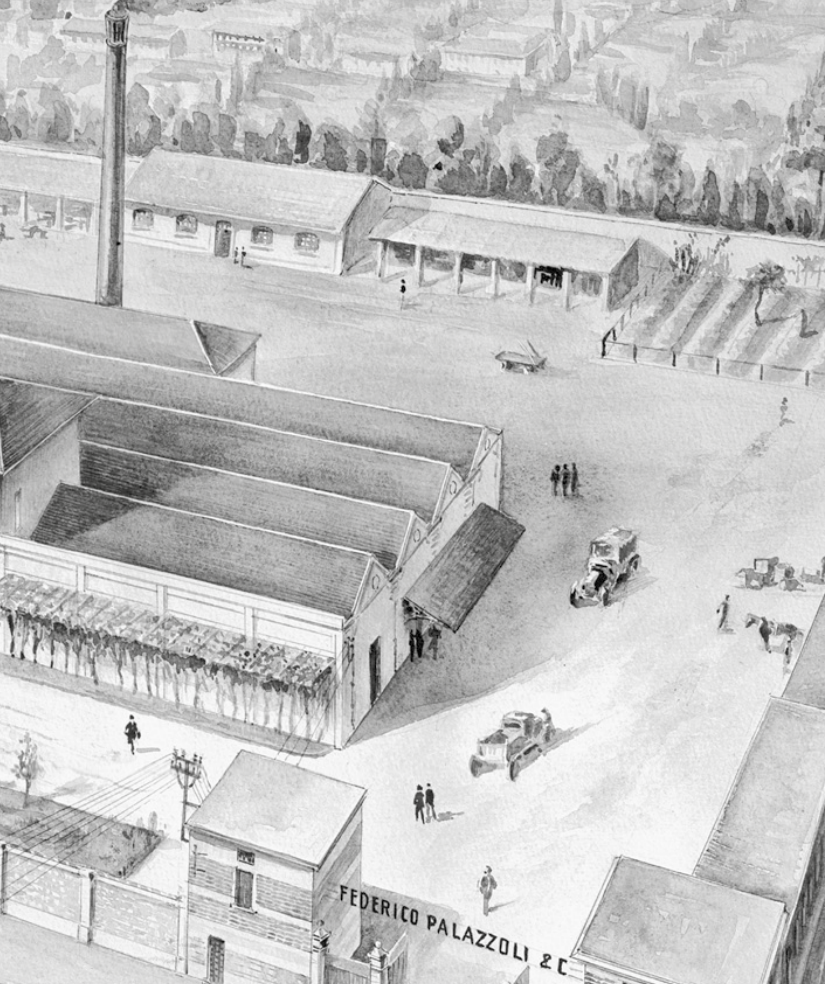
The relationship with the Italian Navy, which was consolidated with the First World War, represents for Palazzoli a training ground for the use of the most advanced technologies and ensures the Brescia-based company a unique wealth of knowledge and the first field of challenge with the international giants of the sector.

With more than a century of history and a marked industrial tradition behind it, Palazzoli today presents itself as a solid and highly reliable company, recognized by the market for the high performance of its products and appreciated by individual customers for the quality of the services offered.

Today the company boasts a photometric laboratory that allows it to test the performance of its devices in a very short time.

The company, thanks to its in-depth knowledge of materials, is able to offer solutions suitable for every environment and for this reason it produces in multiple variants, ranging from thermoplastic to thermosetting, aluminium, stainless steel and brass.





This without neglecting its attention to social issues, the community of workers and more generally the link to the territory, themes to which the company has always given particular importance. Already in 1924 in the Palazzoli turning department, women worked on the drill and lathe alongside men.

The social sensitivity of the company's top management is revealed, for example, with the donation in 1966 to the Municipality of Brescia of the Villa Palazzoli with all the dependencies and the adjacent Ronco with the aim of using them as a retirement home for teachers and state employees.

Today, the company is proud to have achieved and exceeded the objectives of the Kyoto 2020 protocol.



For customer satisfaction, the protection and respect of employees and the territory, Palazzoli uses a quality management system according to the international standard UNI EN ISO 9001 and an environmental management system, certified according to the international standard UNI EN ISO 14001.

Palazzoli also focuses on human capital. This is what the ISO 45001-certified occupational health and safety management system is dedicated to.



DESIGN
PLUS



Palazzoli

Corporate sustainability strategy

Palazzoli S.p.A. has embarked on a sustainability path that aligns its activities with the objectives of the UN 2030 Agenda and the European climate objectives. In 2023, the company conducted its first analysis of the Organization and Product Carbon Footprint for the year 2022, with the aim of reducing emissions into the atmosphere. The Sustainability Report is updated every year.

Palazzoli's approach is not limited to the environmental sphere; the company is developing an action plan to improve sustainability performance in the social and governance fields. This plan provides for the implementation of activities and the definition of short, medium and long-term objectives, with particular attention to people and the strategic direction of the company.



The UN 2030 agenda and the sustainable development goals

Palazzoli's sustainability report refers to the Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda. The SDGs represent a common sustainable development plan signed by the governments of the 193 UN member countries in 2015, with a deadline set for 2030.

In this report, Palazzoli has chosen to report the reference SDGs for each issue addressed, thus identifying the company's contribution to the global path towards sustainability.



Energy and energy efficiency

Palazzoli is committed to ensuring respect for and protection of the environment, in accordance with its UNI EN ISO 14001 certified environmental management system. In 2022, the company began monitoring greenhouse gas (GHG) emissions related to its business perimeter and introduced resource-efficient interventions. This included the development of a sustainability project aimed at improving environmental performance in the short, medium and long term

Environmental Highlights

56%

Electrical energy demand covered by the photovoltaic system



73%

Waste destined for recovery



49%

Water treated and re-introduced in the environment on drawn water



130.000 €

Invested in environmental protection



Reduction of emissions

In 2022, Palazzoli implemented the product carbon footprint according to the ISO 14067 standard and supplied electricity from renewable sources, accompanied by a Guarantee of Origin. In addition, the company eliminated three natural gas burners, thus reducing direct emissions, and set specific targets for reducing greenhouse gas (GHG) emissions.



Sustainability report

Discover Palazzoli's commitment to environmental, social and governance sustainability



The strength of Palazzoli



Customer focused operations

Drawing up a detailed analysis of the market and technical aspects as the basic objectives of the project, before starting with a new work plan.

Smart engineering

A mechanical or electrical system that works well is a good project, and to realise it in the simplest and most reliable way is the goal of Palazzoli's technicians.



Top manufacture

The careful selection of materials, the attention and expertise in manufacturing, the structured process checks, are the factors that differentiate the Palazzoli factory in Brescia.



Service excellence

Timely deliveries, installation advice, testing and guaranteed operation over time set Palazzoli apart in the lighting market.

Quality and safety

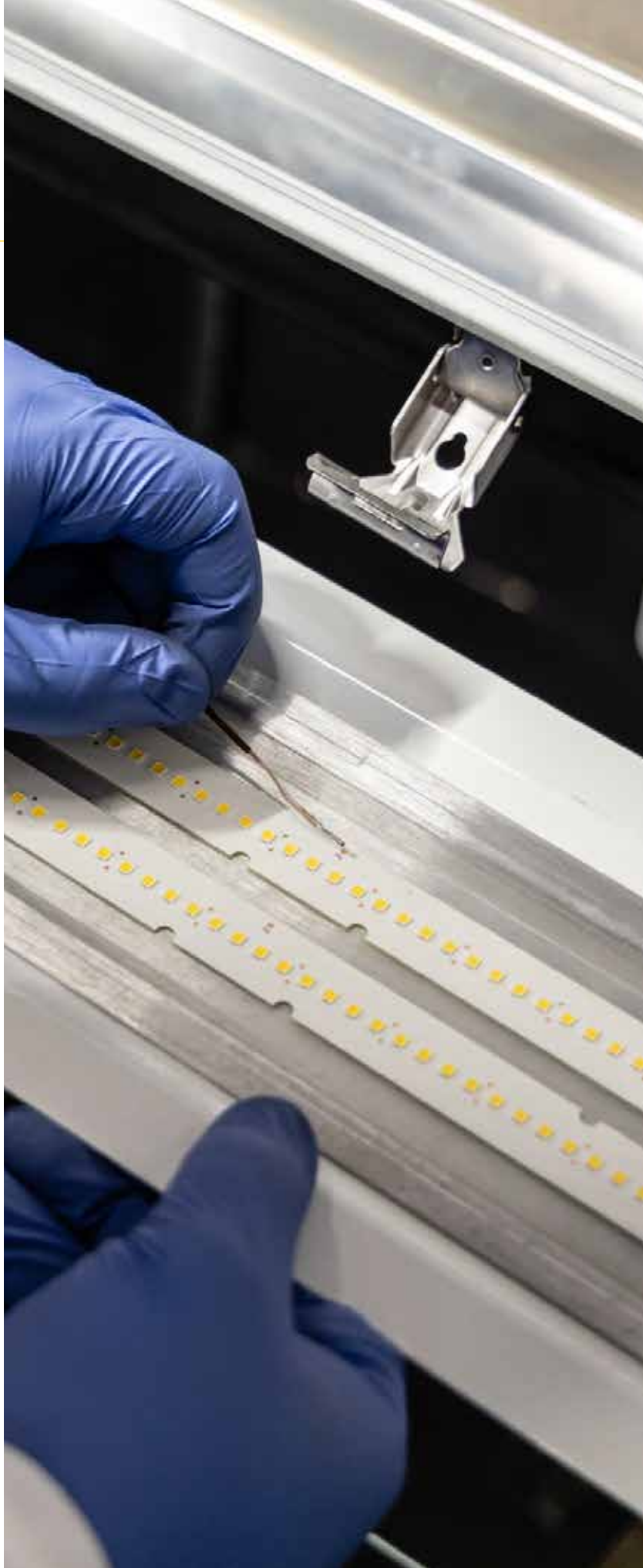
Palazzoli has its own in-house laboratory to carry out all kinds of tests and measurements. Equipped and compliant with European regulatory standards, the laboratory performs durability, temperature, humidity, water tightness and mechanical shock protection tests.

In line with the company's philosophy of providing the best possible customer support in the various application areas, whenever - due to design requirements - changes need to be made to the product, the laboratory technicians work alongside the technical department by carrying out all the tests necessary to guarantee the maximum quality of the solution and customer satisfaction.

In addition, Palazzoli uses the "BURN-IN" test before delivery to check that the finished light fixture is working properly.

This testing technique is used to check that all LEDs are switched on correctly and to identify any cases of "infant mortality" of electronic components and lenses. It involves a prolonged switch-on of the light fixture under various normal operating conditions.

The purpose of this test is to detect: cold soldering problems on LED boards, early faults on electronic components, lens fixing anomalies and inadequately gasketed seals.



Resistance to shock Test

These are performance tests that aim to determine the degree of resistance of light fixtures to external mechanical impact sources.

These tests are performed in accordance with EN 62262 and IEC/TR 62696.



Duration Test

This is a safety test aimed at verifying the resistance of light fixtures to cyclic heating and cooling typical of the conditions of use over time.

The test takes place in an environment with variable and constantly monitored air conditioning.



Resistance to water and dust Test

These are safety tests to check the protection rating of the light fixture housings against the penetration of water and dust.

These tests are carried out in accordance with EN 60598-1 using the test equipment described in EN 60529 standards.



Resistance to corrosion Test

Paints and other types of protective surface treatments are tested to determine their resistance to corrosion by ageing in neutral salt spray according to ISO 9227 and EN 60068-2-11 standards.





Light intensity measurement tests

The performance, emitted luminous flux (Φ [lm]), efficiency (η [lm/W]) and luminous intensity distribution, are accurately measured by a mirror goniophotometer in accordance with EN 13032-1, UNI 13032-4, IESNA LM79.

The chamber in which these measurements are carried out is air-conditioned at a temperature of $+25 \pm 1^\circ\text{C}$ and with air speed $< 0.1 \text{ m/s}$; the measuring instrumentation is equipped with a datalogger with 12 thermocouples that allows monitoring the internal temperatures of the luminaire during photometric measurements.



Continuous evolution

Through simulations, prototyping and performance checks of the optics, the activity of improving the performance of the LED luminaires is continuous. Reflection optics with glare control by means of discrete surfaces were tested in the photometric laboratory.

Palazzoli is a member of DIALux, ASSIL and OxyTech. Our affiliation with these renowned organizations testifies to our ongoing commitment to excellence in the lighting industry. By collaborating with DIALux, ASSIL and OxyTech, we ensure that our products and solutions meet the highest standards of quality and innovation, offering our customers the best technologies available on the market.

Palazzoli has one of the few
goniophotometers in Italy,
with which it is possible to
test standard products and
equipment dedicated to special
projects





In a dedicated area of the plant, the assembly and wiring operations of the light units inside the luminaires are carried out. The lenses, mounted on the boards with an automated process, are designed to achieve an optimal distribution of the light flux.

Painting department

Palazzoli has always been a company specialized in the production of luminaires for particularly aggressive environments, in which the operating conditions are severe and extreme. For this reason, the company has long invested in surface finishing processes to ensure the best protection and excellent corrosion resistance.

Palazzoli designs and manufactures in Italy

Palazzoli designs and manufactures luminaires for the Industrial, ATEX, Infrastructure and Marine sectors using multiple materials. Aluminium alloy bodies are treated against corrosion through a process of passivation and painting. AISI 304 stainless steel bodies are intended for the Industrial and ATEX sectors, while AISI316L stainless steel bodies are intended for the Infrastructural and Marine sectors. The diffusers are made of tempered glass or polycarbonate, with HACCP certification for those intended for the food sector.





Inside, a sector dedicated to the painting of products has been created, structured on different phases, in which each finishing process is controlled and verified in every step. Through fluorozirconation processes, which precede powder coating, the company is able to provide products with high quality standards, resistant to corrosion and abrasion.

Certified Quality

The pursuit of the highest quality objectives has distinguished Palazzoli over the years, a company that has always been careful to offer the consumer the best guarantees in terms of design criteria, production processes, safety and product durability. All luminaires are made in Italy and certified, depending on the application, by ENEC, ATEX, IECex, DNV, INMETRO and QL (LEDs certified for photobiological risk).



Warehouse and distribution

From the production plant, the luminaires are transferred to the warehouse with AGV (Automated Guided Vehicle) vehicles, autonomous vehicles that help to significantly reduce accessory costs.

In addition, in order to streamline logistics and increase the level of service, Palazzoli has equipped itself with a warehouse of 50,000 cubic meters, fully automated, which has drastically reduced the preparation, packaging, and shipping times for each order it handles.

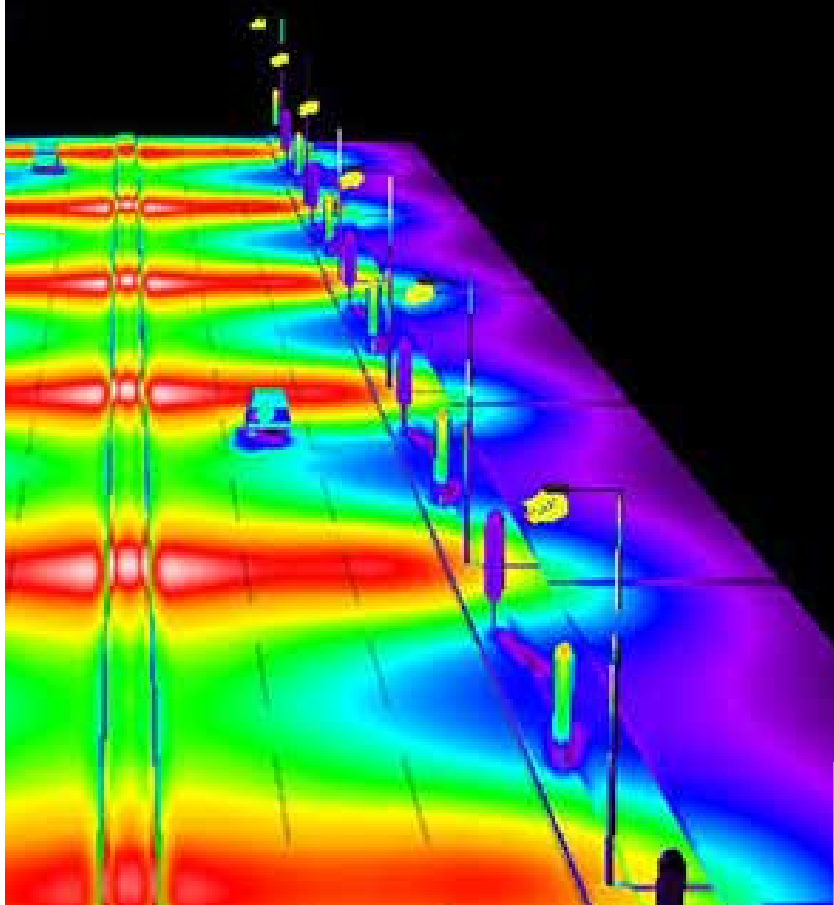
50,000 cubic metres of warehouse space, fully automated to improve services offered by Palazzoli every day



Customer Services

Designing

The technical office is constantly at the designer's side to identify the solutions that best meet the specifications and peculiarities of each project. Professional figures specialized in the lighting field carry out a support activity for the designer, supporting them from the early stages of the project, until its complete realization.



Installation and testing

Attention to the customer makes Palazzoli irreplaceable as it is able to create high quality industrialised products and tailor-made solutions. Even during the construction phase of a plant, when it is necessary to verify the work on site, the company provides specialized technicians to assist the customer during the installation and testing phases of the products, in order to guarantee their perfect implementation.

Energy savings

The luminous efficacy of Palazzoli LED devices is high in the face of reduced consumption and a considerable reduction in CO₂ emissions. With the same level of lighting, with our technology achieves energy savings of up to 70% compared to traditional technologies.

Product warranty

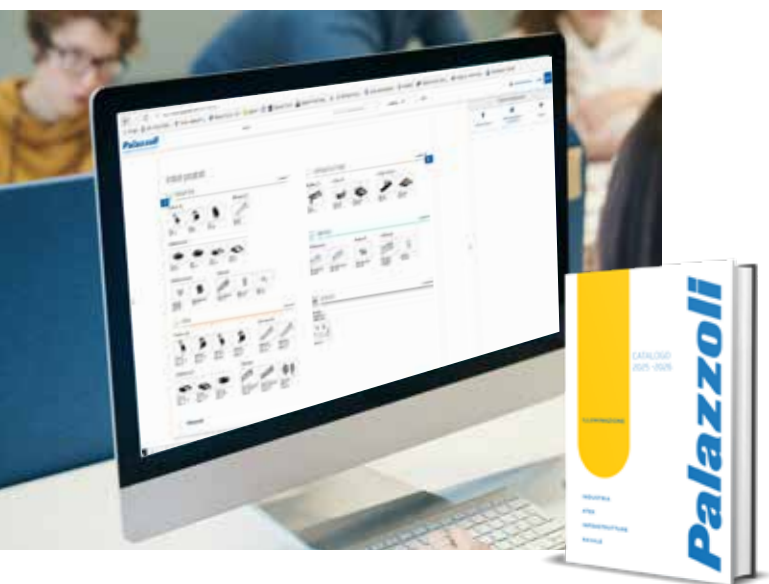
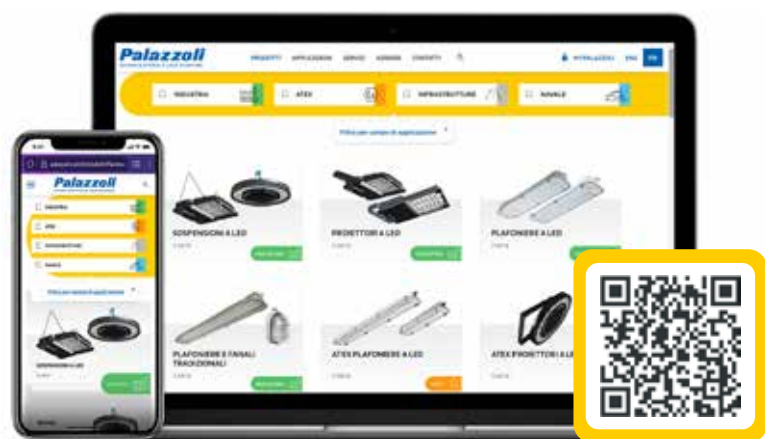
Palazzoli is able to guarantee up to 7 years of warranty on all products, upon specific request.

7 YEARS WARRANTY
Up to 7 years on all LED products

Online Electronic Catalogue

An online electronic catalogue is available on the Palazzoli website, always updated with the latest product news. Thanks to an intuitive interface, you can easily navigate to find the ideal solution, filtering your search by sector or type of device. For each product code, the catalogue allows you to download technical data sheets, certificates, dimensional drawings and photometric curves, ensuring complete support for design choices.

Scan the QR CODE to directly access the online electronic catalogue and discover all the features.



Catalogue Lighting Composer

The Palazzoli website also offers Catalogue Lighting Composer, an innovative software designed to create detailed technical documents using the pages of the Lighting Catalogue. With a few clicks, it is possible to generate an orderly, professional technical file in digital format, perfect for describing design choices in detail. Thanks to Catalogue Lighting Composer, the technical specifications of the products are always updated, guaranteeing maximum reliability.

Educational videos

This educational project is dedicated to Designers and Installers interested in Lighting Technology, with a particular focus on the fundamental properties of light, control systems for energy savings, and the best examples of lighting projects. These videos, designed to be concise and easy to understand, provide a comprehensive overview of the following key topics:

- Luminous flux
- Luminous efficacy
- Illuminance
- Photobiological risk and glare
- Color temperature and Color Rendering Index
- Workplace lighting
- Emergency lighting
- Luminous intensity
- Luminance
- Control systems and energy saving



Scan the QR CODE to access the educational videos directly.



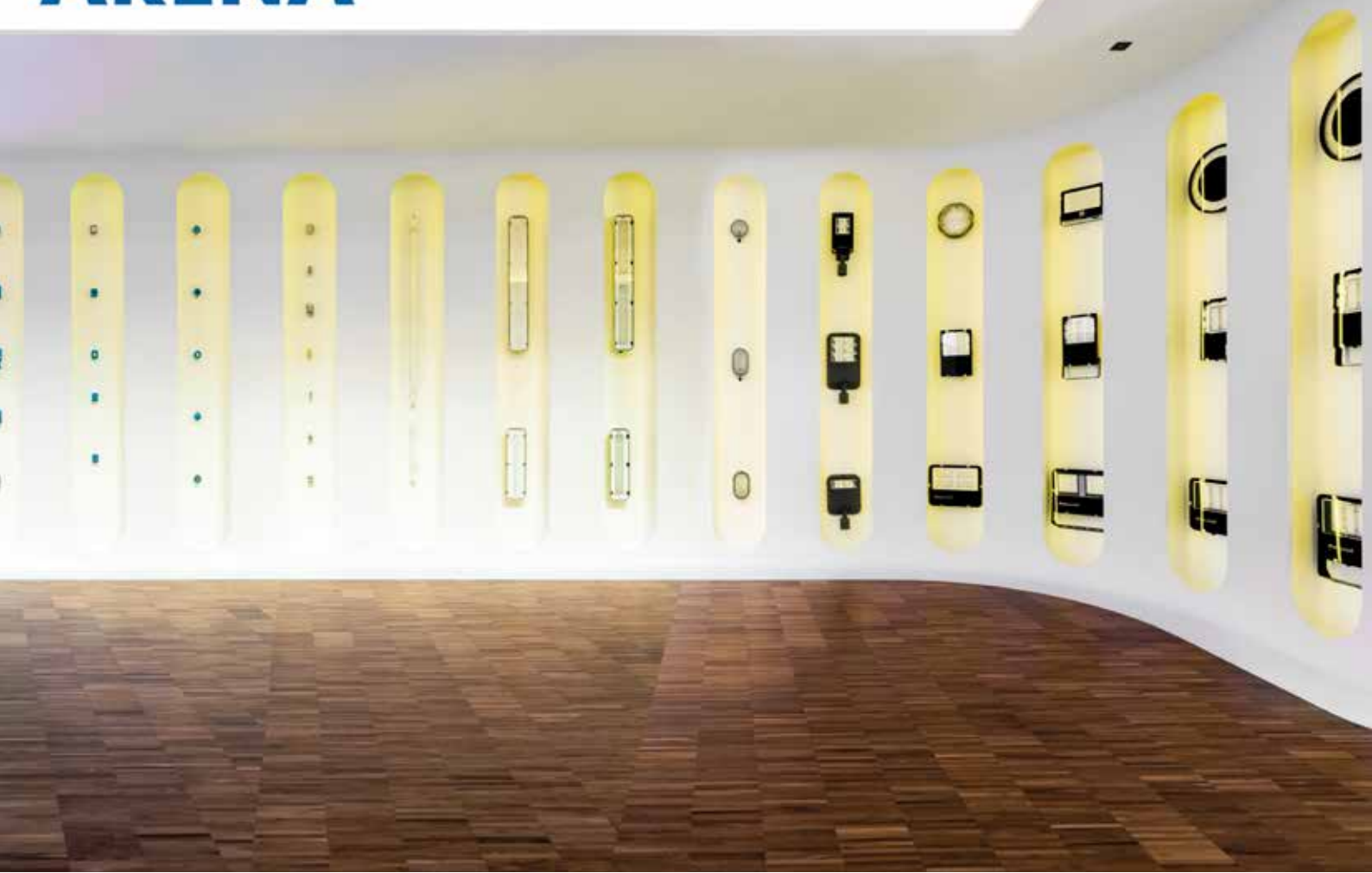
Arena Room

Palazzoli Arena is a new area designed for the advanced testing of Palazzoli solutions dedicated to electrification and lighting in the Industrial, ATEX, Infrastructure and Marine sectors.

This innovative space is a strategic project, combining cutting-edge technologies with unique experiences designed for Palazzoli guests.

An essential point of reference for professionals in the sector, who find the Palazzoli Arena an ideal place to discover, share and innovate.

ARENA



With a capacity of 200 people, the Palazzoli Arena is a prestigious stage for conferences, events and demonstrations aimed at Commercial Partners, Installers, Designers and Students interested in the world of electrification and lighting.

TIGUA



reddot design award

Series

A range of floodlights designed to provide the best solutions in the road, motorway, tunnel, gallery and parking areas.

The body is made of die-cast aluminium alloy EN44300 with very low copper content, with anti-corrosion treatment for maximum resistance even in harsh environments.

The rear cooling fins are designed to best dissipate heat and ensure an optimal operating temperature. The wide variety of optical solutions available allows you to solve any lighting problem and create customized solutions.

Luminaires with a DALI power supply can be used with the wireless or IMPERIUM cable control system.

The luminaires can be supplied on request with radio-wave remote control modules.

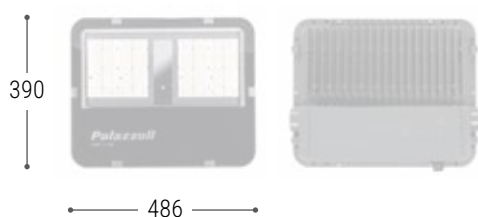
It is also possible to provide a solution for the complete radio remote control system, ensuring efficient and flexible management for every need.



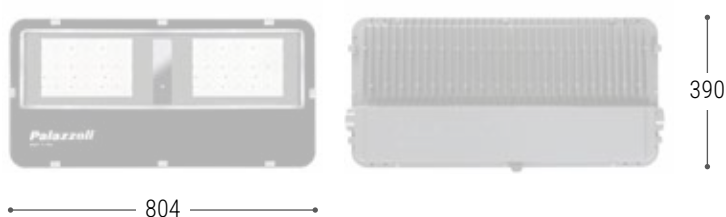
TIGUA S



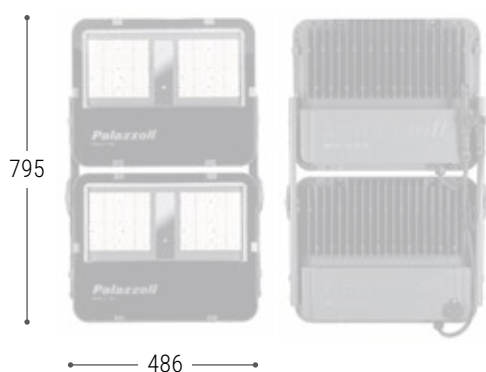
XTIGUA M



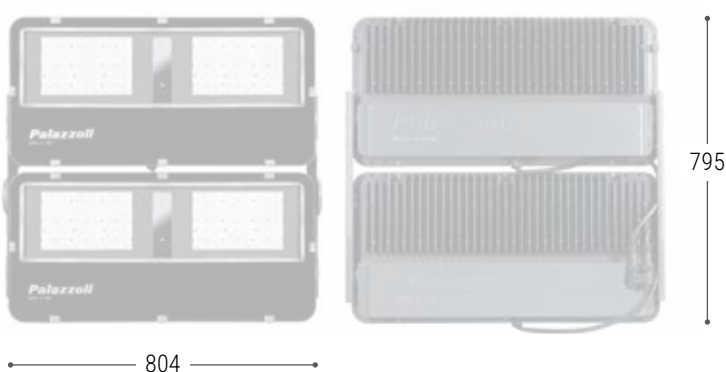
XTIGUA L



XTIGUA XL



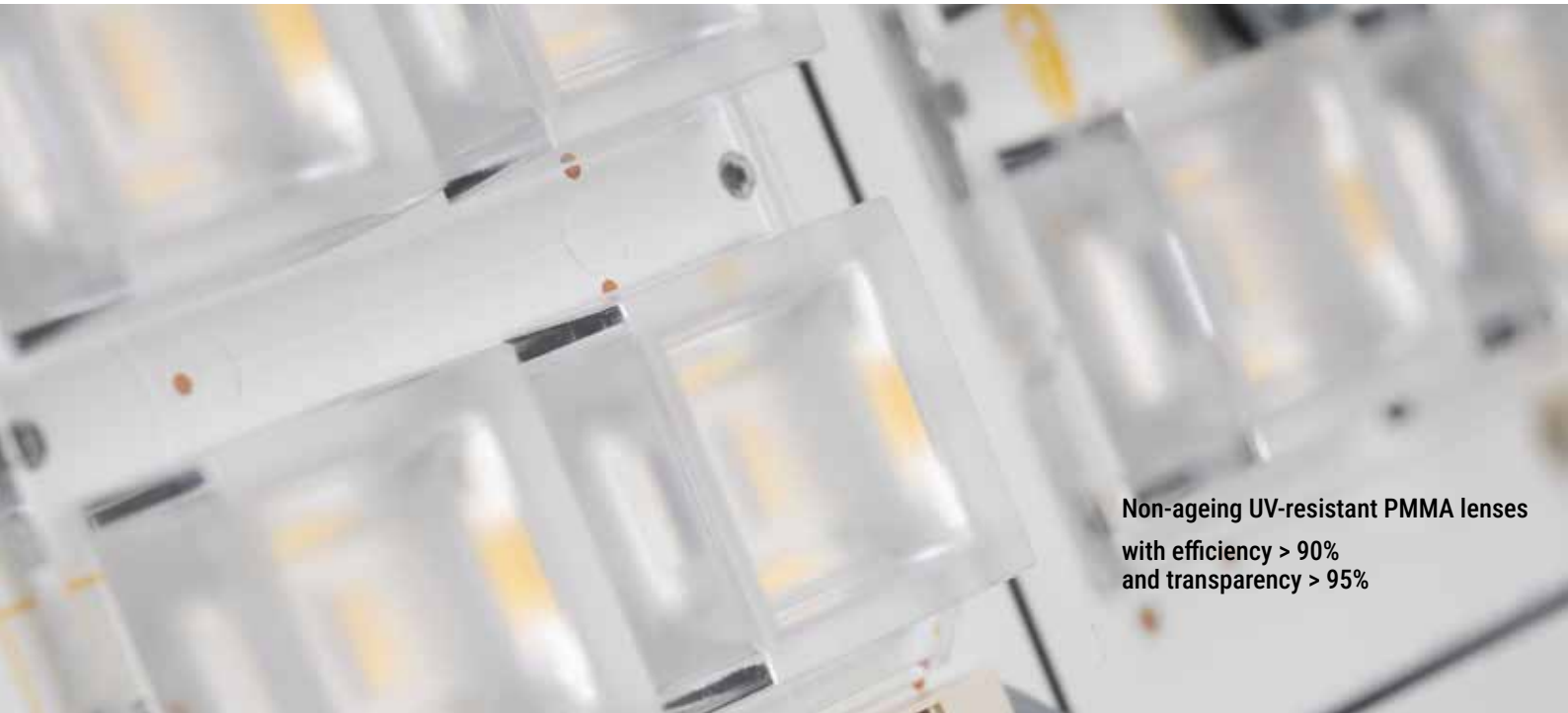
XTIGUA XXL



Range

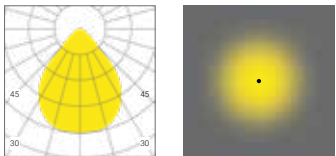
	TIGUA floodlights   → Page 96	TIGUA pendant light fixtures   → Page 146	TIGUA-T54 floodlights   → Page 260
Nominal flux	from 7776 lm to 30004 lm	from 11575 lm to 27750 lm	from 5964 lm to 20184 lm
Output flux	from 6480 lm to 24252 lm	from 8593 lm to 22100 lm	from 4970 lm to 16820 lm
Power	up to 188 W	up to 182 W	up to 116 W
Efficacy	up to 145 lm/W	up to 121 lm/W	up to 145 lm/W
Control systems	on - off	dimmable 1 - 10 V DALI	dimmable 1 - 10 V
Versions	standard high temperature (+60° C)	standard emergency high temperature (+60° C) HACCP food	standard
Optics	symmetrical 81° extra wide beam symmetrical 36° narrow beam asymmetrical 23° extra wide beam asymmetrical 50° extra wide beam asymmetrical 43° narrow beam asymmetrical 55° narrow beam roadway 65° wide beam	symmetrical 81° extra wide beam symmetrical 55° medium beam symmetrical 36° narrow beam elliptical 95° x 41°	PS3 symmetrical axial and symmetrical transversal beam RS1 counterbeam axial 52° and symmetrical transversal beam

	TIGUA-EX floodlights   → Page 176	TIGUA-EX floodlights   → Page 182	TIGUA-EX pendant light fixtures   → Page 202
Nominal flux	from 6980 lm to 19850 lm	from 7600 lm to 21600 lm	from 6980 lm to 19850 lm
Output flux	from 5808 lm to 16560 lm	from 6312 lm to 18000 lm	from 5808 lm to 16560 lm
Power	up to 141 W	up to 141 W	up to 141 W
Efficacy	up to 131 lm/W	up to 142 lm/W	up to 131 lm/W
Control systems	DALI	DALI	DALI
Versions	II 2G - 2D very high temperature (+70° C)	II 3G - 2D	II 2G - 2D very high temperature (+70° C)
Optics	symmetrical 81° extra wide beam asymmetrical 50° extra wide beam	symmetrical 81° extra wide beam asymmetrical 23° extra wide beam	symmetrical 81° extra wide beam

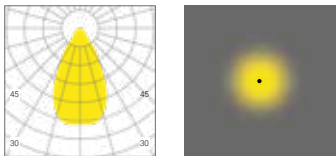


Non-ageing UV-resistant PMMA lenses
with efficiency > 90%
and transparency > 95%

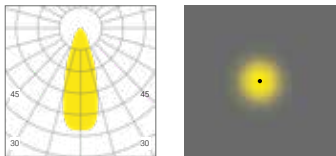
Optics



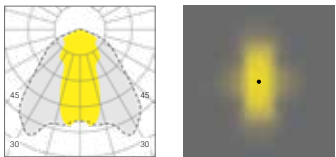
Symmetrical 81° extra wide beam



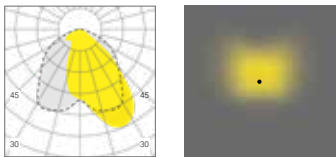
Symmetric medium 55°



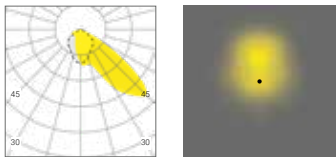
Symmetrical 36° narrow beam



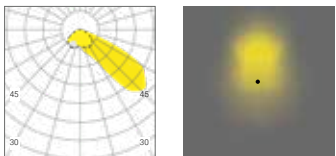
Elliptical 95° x 41°



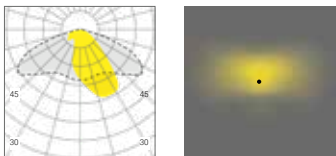
Asymmetrical 23° extra wide beam



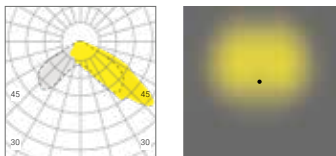
Asymmetrical 43° narrow beam



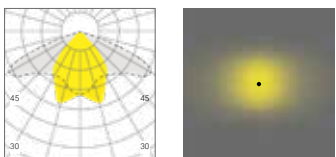
Asymmetrical 55° narrow beam



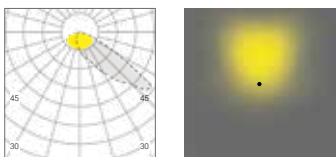
Roadway 65° wide beam



Asymmetrical 50° extra wide beam



PS3 symmetrical axial
and symmetrical transversal beam



RS1 counterbeam axial 52°
and symmetrical transversal beam



It is possible to provide a remote-controlled product on request through:

- ZHAGA node
- NEMA node
- internal node
- external node in separate box.

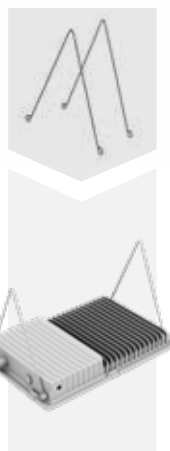
It is also possible to provide a solution for the complete radio remote control system for flexible and efficient plant management.

Fastening system

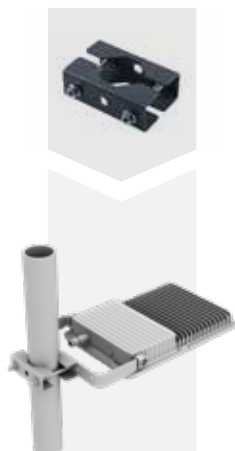
ADJUSTABLE
BRACKET



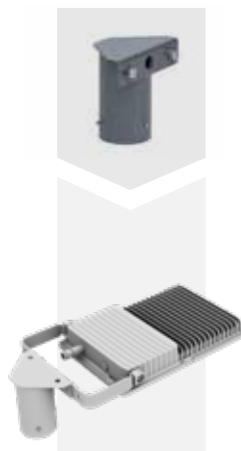
PENDANT
MOUNTING



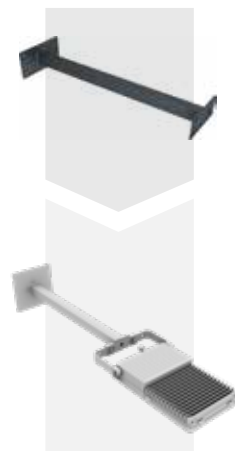
POLE-MOUNTED



POLE -TOP

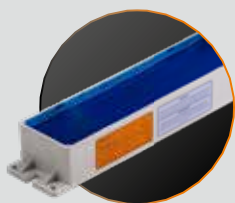


OVERHANGING
BRACKET

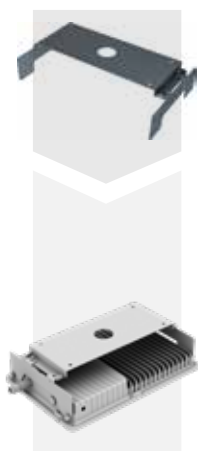


Body-integrated power supply
with direct connection to the connector
to speed up the wiring.

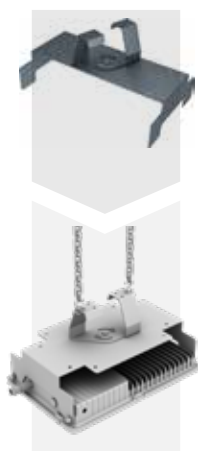
In the ATEX version
the inlet is via cable gland; the power
supply is resin-coated and certified
for environments at risk of explosion.



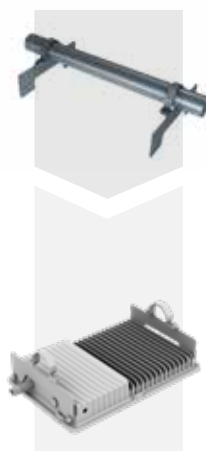
CEILING
MOUNTING



ADJUSTABLE
PENDANT MOUNTING



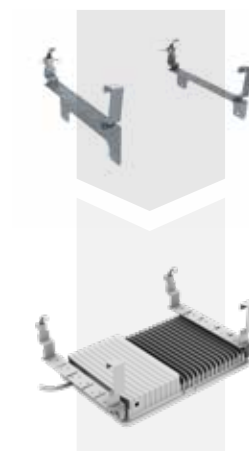
HORIZONTAL
POLE



CATENARY
WIRE



CABLE
TRAY



XTIGUA



reddot design award

Series

Range of floodlights suitable for providing solutions where light fluxes and high power are required: optimum response in road, sports and parking areas.

The body is made of die-cast aluminium alloy EN44300 with very low copper content, with anti-corrosion treatment for maximum resistance even in harsh environments.

The rear cooling fins are designed to best dissipate heat and ensure an optimal operating temperature.

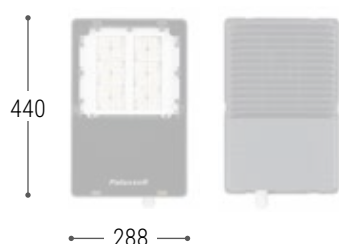
The wide variety of optical solutions available allows you to solve any lighting problem and create customized solutions.

Luminaires with a DALI power supply can be used with the wireless or IMPERIUM cable control system.

The luminaires can be supplied on request with radio-wave remote control modules. It is also possible to provide a solution for the complete radio remote control system, ensuring efficient and flexible management for every need.



TIGUA S



XTIGUA M



XTIGUA L



XTIGUA XL



XTIGUA XXL



Range

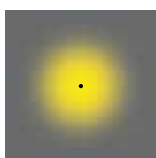
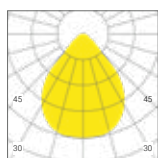
	XTIGUA floodlights   → Page 102	XTIGUA pendant light fixtures   → Page 152	XTIGUA-T54 floodlights   → Page 262
Nominal flux	from 27900 lm to 151694 lm	from 27009 lm to 57000 lm	from 25900 lm to 69078 lm
Output flux	from 23300 lm to 126412 lm	from 21580 lm to 48800 lm	from 21584 lm to 57565 lm
Power	up to 884 W	up to 400 W	up to 397 W
Efficacy	up to 161 lm/W	up to 130 lm/W	up to 145 lm/W
Control systems	DALI	DALI	Dimmable 1-10 V
Versions	standard high temperature (+55° C) very high temperature (+70° C)	standard high temperature (+55° C) very high temperature (+70° C)	standard
Optics	symmetrical 81° extra wide beam symmetrical 36° narrow beam asymmetrical 23° extra wide beam asymmetrical 50° extra wide beam asymmetrical 43° narrow beam asymmetrical 55° narrow beam	symmetrical 81° extra wide beam symmetrical 55° medium beam symmetrical 36° narrow beam	PS3 symmetrical axial and symmetrical transversal beam RS1 counterbeam axial 52° and symmetrical transversal beam

	XTIGUA-EX floodlights   → Page 179	XTIGUA-EX floodlights   → Page 184	XTIGUA-EX pendant light fixtures   → Page 205
Nominal flux	from 20900 lm to 39800 lm	from 23600 lm to 44300 lm	from 20900 lm to 39800 lm
Output flux	from 17365 lm to 33120 lm	from 19630 lm to 36864 lm	from 17365 lm to 33120 lm
Power	up to 285 W	up to 285 W	up to 285 W
Efficacy	up to 128 lm/W	up to 145 lm/W	up to 128 lm/W
Control systems	DALI	DALI	DALI
Versions	II 2G - 2D very high temperature (+70° C)	II 3G - 2D	II 2G - 2D very high temperature (+70° C)
Optics	symmetrical 81° extra wide beam asymmetrical 50° extra wide beam	symmetrical 81° extra wide beam asymmetrical 23° extra wide beam	symmetrical 81° extra wide beam

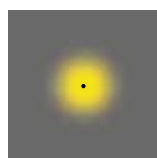
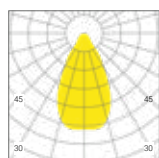


**Non-ageing UV-resistant PMMA lenses
with efficiency > 90%
and transparency > 95%**

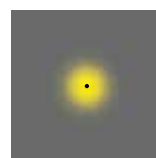
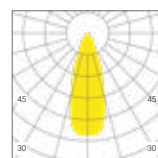
Optics



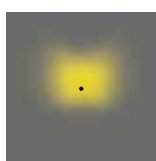
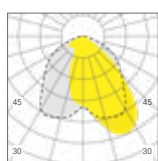
Symmetrical 81° extra wide beam



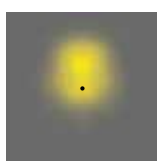
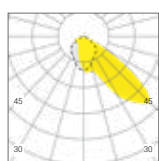
Symmetric medium 55°



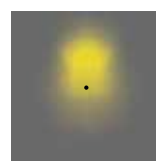
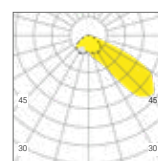
Symmetrical 36° narrow beam



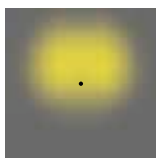
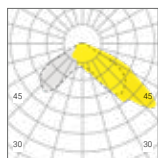
Asymmetrical 23° extra wide beam



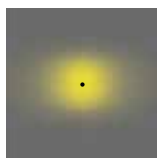
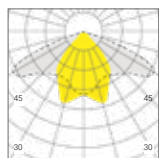
Asymmetrical 43° narrow beam



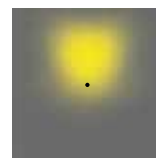
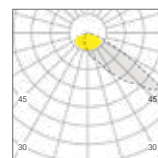
Asymmetrical 55° narrow beam



Asymmetrical 50° extra wide beam



PS3 symmetrical axial
and symmetrical transversal beam



RS1 counterbeam axial 52°
and symmetrical transversal beam

It is possible to provide a remote-controlled product on request through:

- ZHAGA node
- NEMA node
- internal node
- external node in separate box.

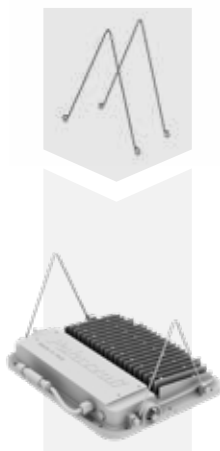
It is also possible to provide a solution for the complete radio remote control system for flexible and efficient plant management.

Fastening system

ADJUSTABLE
BRACKET



PENDANT
MOUNTING



CROSSBEAM

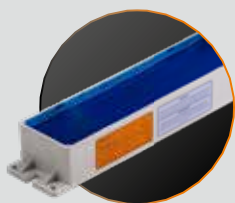


POLE -TOP

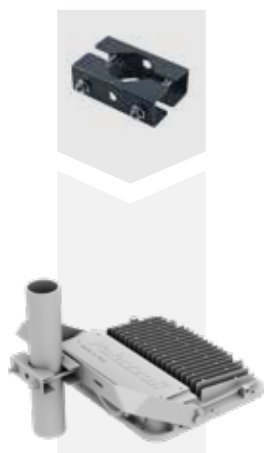


Body-integrated power supply with direct connection to the connector to speed up the wiring.

In the ATEX version the inlet is via cable gland; the power supply is resin-coated and certified for environments at risk of explosion.



POLE-MOUNTED



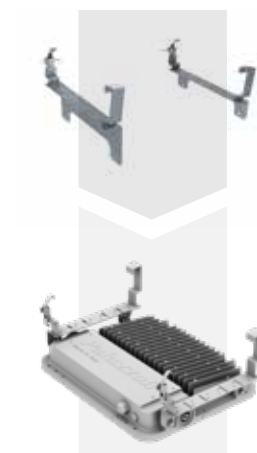
CEILING MOUNTING



ADJUSTABLE PENDANT MOUNTING



CABLE TRAY



DARWIN



Series

Range of floodlights created to provide the best solutions on light towers in sports, road and parking areas.

The body is made of die-cast aluminium alloy for the best resistance even in harsh environments.

Extra-clear flat glass diffuser of 4 mm thick, tempered, resistant to shocks and UV rays.

The compact and modular solution allows you to reach solutions with high luminous flux, up to 195000 lm, with an efficacy of 162 lm/W.

The range of asymmetric and symmetric optics allows you to create solutions with excellent illumination of the underlying areas. The driver is protected from the elements and UV rays thanks to a casing that protects it and can be remotely controlled on request. HT versions are available in the range that guarantee operation even with room temperature up to +70°C.

The solution is compatible with the DALI protocol and can be integrated into control systems for the management of the luminaire.



DARWIN 1 module



DARWIN 2 modules



DARWIN 3 modules



Range

DARWIN 1 MODULE
floodlights

→ Page 115

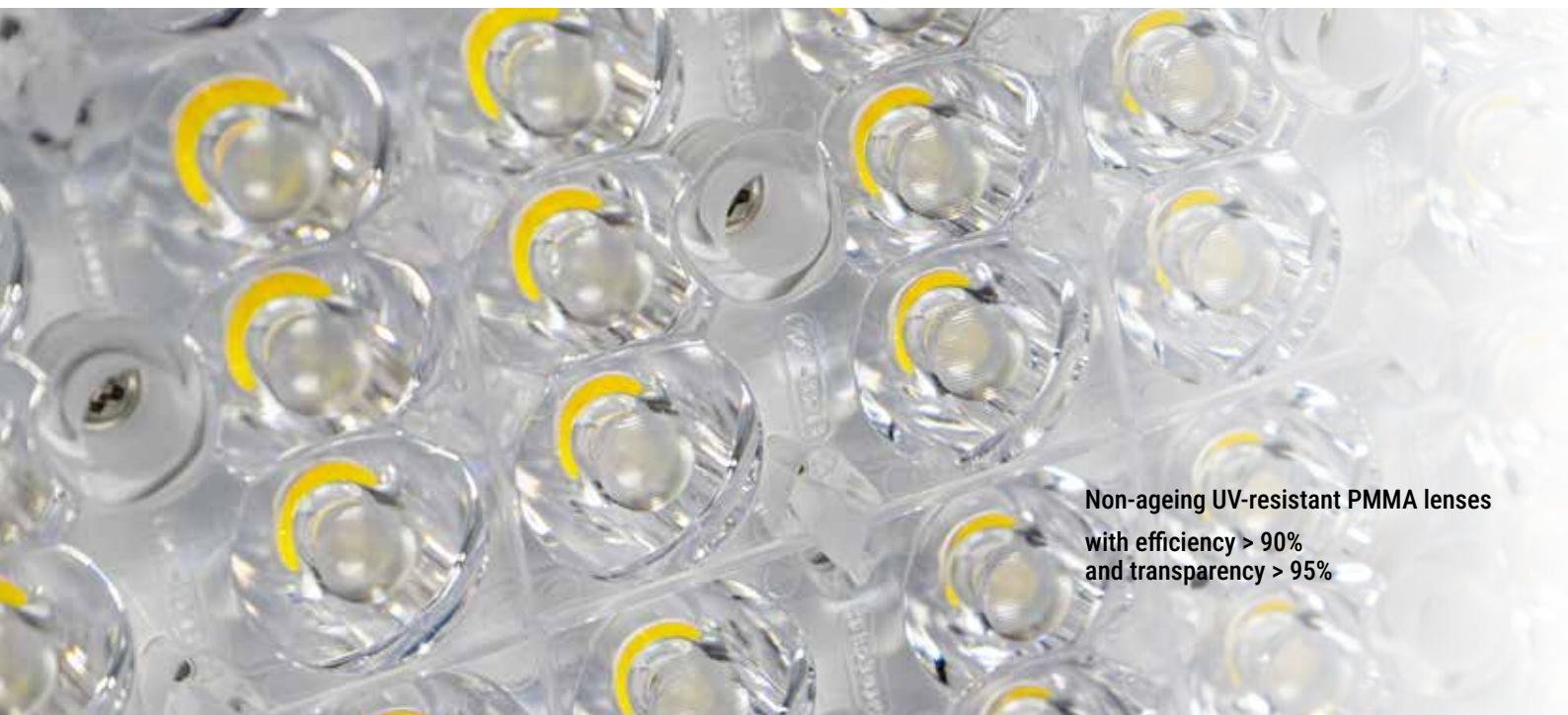
DARWIN 2 MODULES
floodlights

→ Page 117

DARWIN 3 MODULES
floodlights

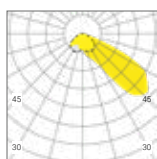
→ Page 119

Nominal flux	from 72000 lm to 77760 lm	from 144000 lm to 155520 lm	from 216000 lm to 233280 lm
Output flux	from 60000 lm to 64800 lm	from 120000 lm to 129600 lm	from 180000 lm to 194400 lm
Power	400 W	800 W	1200 W
Efficacy	up to 162 lm/W	up to 162 lm/W	up to 162 lm/W
Control systems	DALI	DALI	DALI
Versions	standard	standard very high temperature (+70° C)	standard very high temperature (+70° C)
Optics	asymmetrical 50° narrow beam asymmetrical 50° extra wide beam symmetrical 30° narrow beam symmetrical 18° narrow beam	asymmetrical 50° narrow beam asymmetrical 50° extra wide beam symmetrical 30° narrow beam symmetrical 18° narrow beam	asymmetrical 50° narrow beam asymmetrical 50° extra wide beam symmetrical 30° narrow beam symmetrical 18° narrow beam

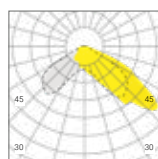
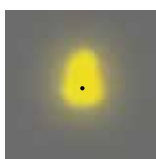


Non-ageing UV-resistant PMMA lenses
with efficiency > 90%
and transparency > 95%

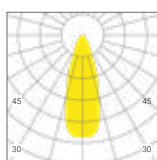
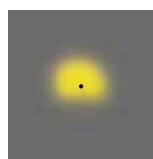
Optics



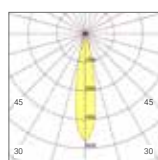
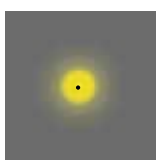
Asymmetrical 50° narrow beam



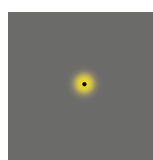
Asymmetrical 50° extra wide beam



Symmetrical 30° narrow beam



Symmetrical 18° narrow beam



Fastening system

ADJUSTABLE BRACKET



CROSSBEAM



META



reddot design award

Series

META is a family of lighting fixtures whose lighting and mechanical characteristics are designed for industrial, commercial sports and food environments, both indoors and outdoors, as well as in environments at risk of explosion provided for by the ATEX Directive 2014/34/EU.

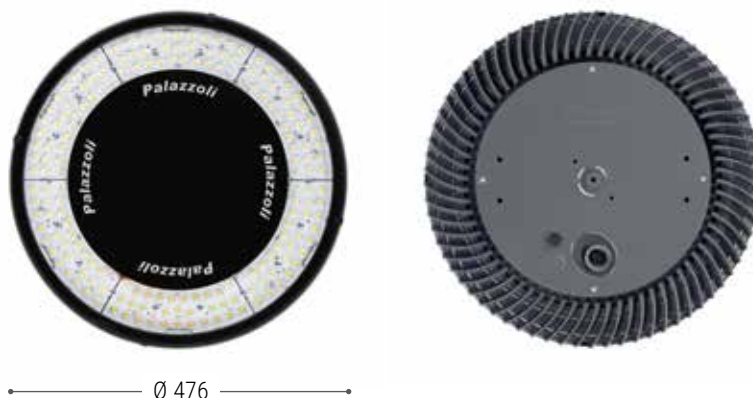
The body is made of die-cast aluminium and thanks to the subsequent anti-corrosion treatment can be installed in any type of environment. Finished with anti-scratch powder coating, the luminaire has a glass or polycarbonate diffuser, the former guarantees maximum resistance in aggressive environments in the presence of chemicals, while the latter makes it suitable for use in HACCP-compliant food environments. Thanks to rotosymmetric photometry, the devices are easy to install and always aligned, significantly reducing assembly times.

Luminaires with a DALI power supply can be used with the wireless or IMPERIUM cable control system.

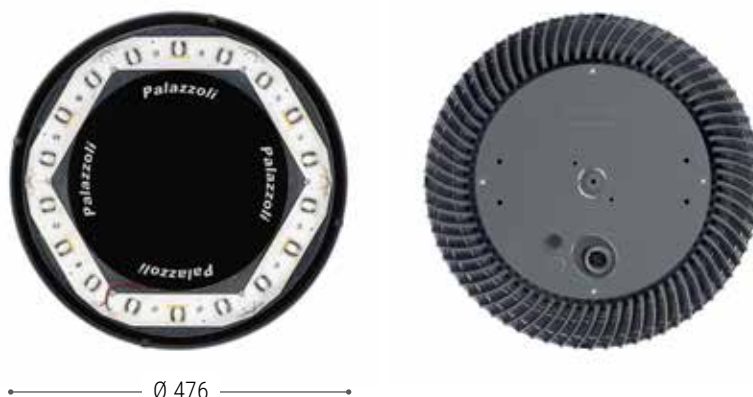
The luminaires can be supplied on request with radio-wave remote control modules. It is also possible to provide a solution for the complete radio remote control system, ensuring efficient and flexible management for every need.



META150



META



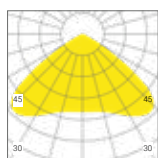
Range

	META floodlights	META150 pendant light fixtures	META pendant light fixtures
	  → Page 124	  → Page 139	  → Page 142
Nominal flux	from 13230 lm to 26460 lm	from 12700 lm to 37000 lm	from 10187 lm to 26460 lm
Output flux	from 9193 lm to 18387 lm	from 10600 lm to 30883 lm	from 8140 lm to 21659 lm
Power	up to 199 W	up to 215 W	up to 199 W
Efficacy	up to 93 lm/W	up to 151 lm/W	up to 110 lm/W
Control systems	dimnable 1-10 V	DALI	dimnable 1-10 V
Versions	standard	standard high temperature (+60° C) high efficiency HACCP food	standard emergency high temperature (+55° C)
Optics	asymmetrical 50° narrow beam	symmetrical 90° comfort extra wide beam symmetrical 75° medium beam	symmetrical 110° extra wide beam symmetrical 41° narrow beam elliptical 92° x 20° beam

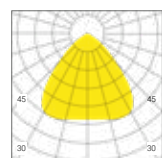
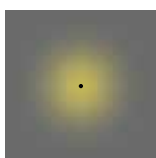
	META150-EX pendant light fixtures
	  → Page 208
Nominal flux	from 10296 lm to 24200 lm
Output flux	from 8580 lm to 19832 lm
Power	up to 134 W
Efficacy	up to 148 lm/W
Control systems	on - off DALI
Versions	II 3G - 2D
Optics	symmetrical 90° comfort extra wide beam symmetrical 75° medium beam

Non-ageing UV-resistant PMMA lenses
with efficiency > 90%
and transparency > 95%

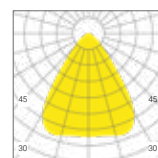
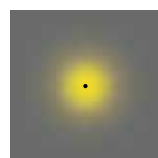
Optics



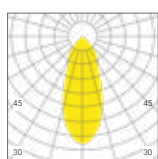
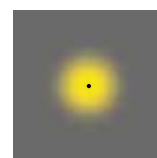
Symmetrical 110° extra wide beam



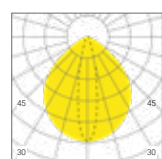
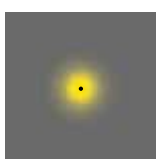
Symmetrical 90° comfort extra wide



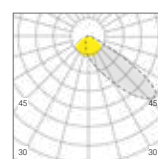
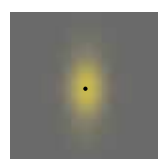
Symmetrical 75° medium beam



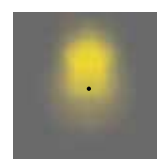
Symmetrical 41° narrow beam

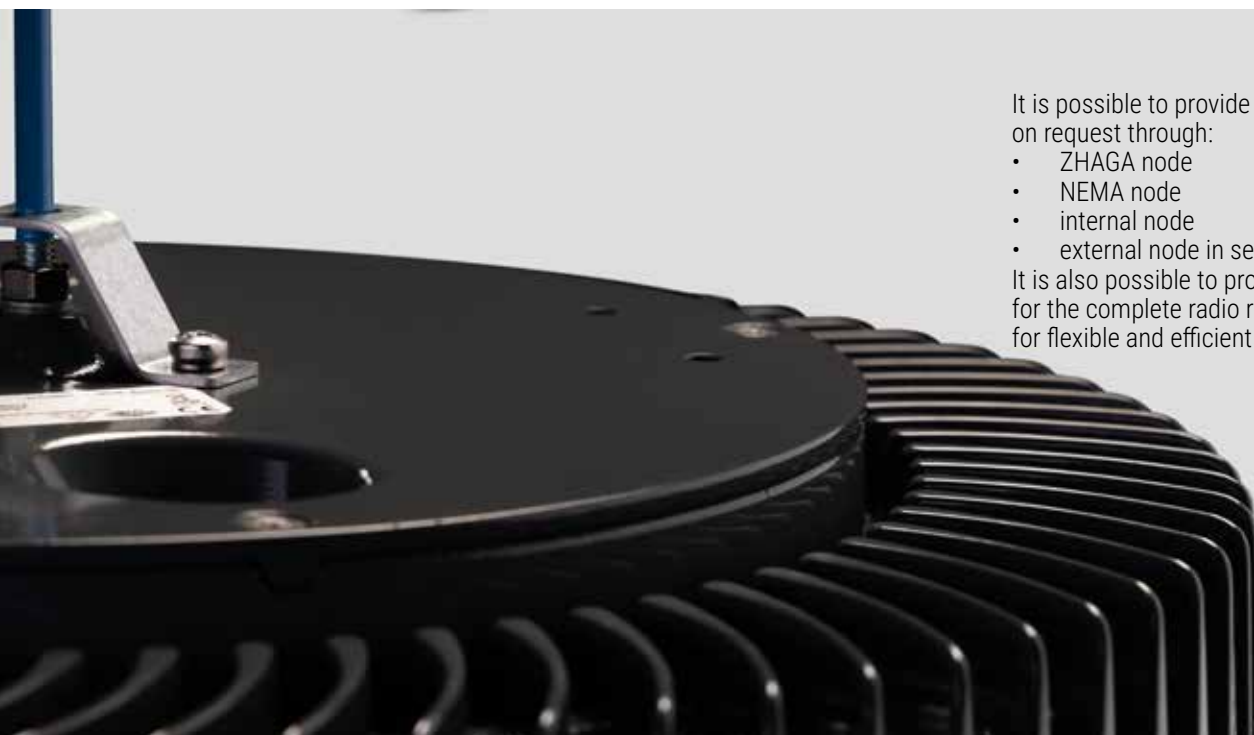


Elliptical 92° x 20° beam



Asymmetrical 50° narrow beam





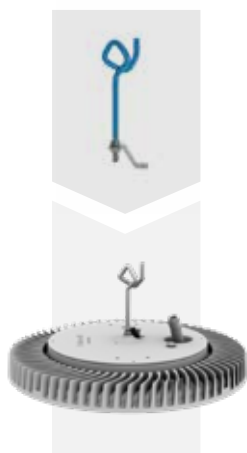
It is possible to provide a remote-controlled product on request through:

- ZHAGA node
- NEMA node
- internal node
- external node in separate box.

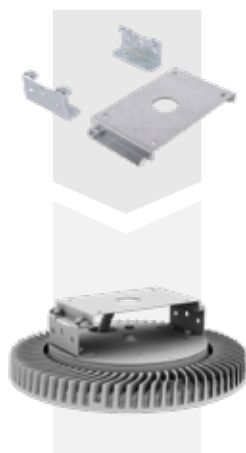
It is also possible to provide a solution for the complete radio remote control system for flexible and efficient plant management.

Fastening system

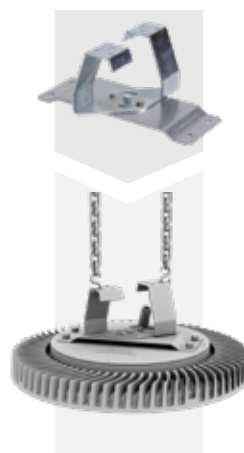
PENDANT
MOUNTING



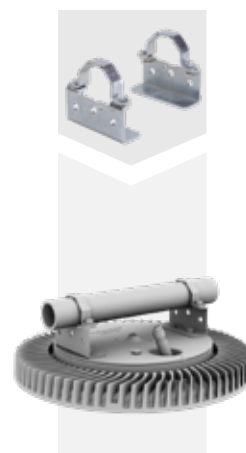
CEILING
MOUNTING



ADJUSTABLE
PENDANT MOUNTING

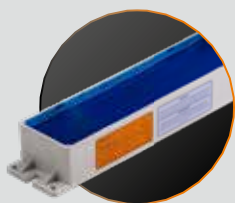


HORIZONTAL
POLE



Body-integrated power supply with direct connection to the connector to speed up the wiring.

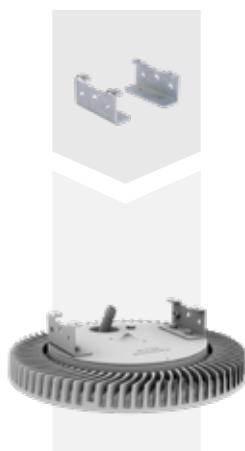
In the ATEX version the inlet is via cable gland; the power supply is resin-coated and certified for environments at risk of explosion.



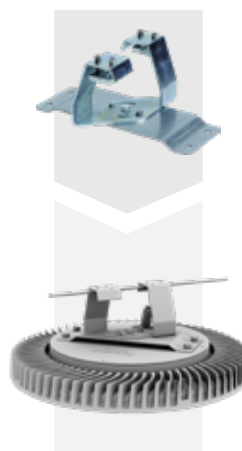
ADJUSTABLE
BRACKET



DOUBLE
CHAIN



CATENARY
WIRE



POLE-TOP



YUMA



Series



A range of floodlights designed to offer the best solutions in the industrial and marine sectors. The body is made of stainless steel to ensure strength and durability even in aggressive marine environments. The diffuser is made of 4 mm thick extra-clear flat glass, tempered to withstand shocks and UV rays.

The YUMA range allows you to obtain light intensities of up to 24000 lumens, with an efficacy of up to 130 lm/W.

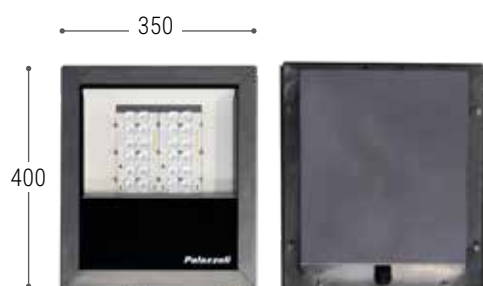
Asymmetric and symmetric optics allow you to design optimal lighting for the areas below the product.

The driver inside is protected from the elements, saline atmosphere and UV rays. In the industrial version, floodlights are available for outdoor lighting in coastal areas and pendant mounting to illuminate indoor environments at risk of severe corrosion. In the range dedicated to the marine sector, the floodlights adopt specific technical solutions such as AISI 316L painted stainless steel to allow the installation of the product in outdoor areas on board cruise ships in constant contact with the saline atmosphere.

The connection of industrial products takes place through a quick connector while in the marine sector there is a dedicated solution with a junction box.

YUMA is compatible with the DALI protocol and can be integrated into control systems for managing the luminaire.

YUMA M



YUMA L



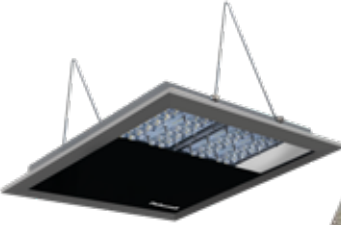
YUMA-NAVE S



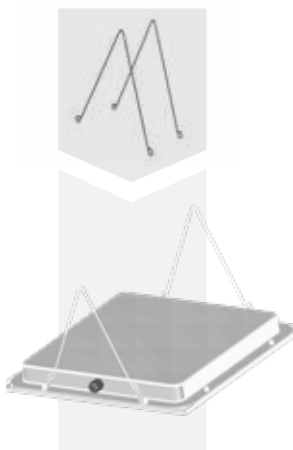
YUMA-NAVE M



Range

	YUMA M SIZE floodlights	YUMA L SIZE floodlights	YUMA L SIZE pendant light fixtures	YUMA-NAVE S SIZE floodlights	YUMA-NAVE M SIZE floodlights
					
	 → Page 127	 → Page 128	 → Page 156	 → Page 279	 → Page 281
Nominal flow	from 11544 lm to 15288 lm	from 23088 lm to 30576 lm	from 23088 lm to 30576 lm	from 3840 lm to 7350 lm	from 11100 lm to 14700 lm
Output flow	from 9620 lm to 12740 lm	from 19240 lm to 25480 lm	from 19240 lm to 25480 lm	from 3200 lm to 6125 lm	from 9250 lm to 12250 lm
Power	up to 98 W	up to 196 W	up to 196 W	up to 49 W	up to 98 W
Efficacy	130 lm/W	130 lm/W	130 lm/W	up to 128 lm/W	125 lm/W
Control Systems	on - off	on - off	DALI	on - off	on - off
Versions	standard	standard	standard	standard	standard
Optics	asymmetrical 23° extra wide beam asymmetrical 50° extra wide beam asymmetrical 55° narrow beam	asymmetrical 23° extra wide beam asymmetrical 50° extra wide beam asymmetrical 55° narrow beam	symmetrical 81° extra wide beam symmetrical 55° medium beam symmetrical 36° narrow beam elliptical 95° x 41° beam	symmetrical 81° extra wide beam symmetrical 55° medium beam symmetrical 36° narrow beam symmetrical 15° narrow beam	symmetrical 81° extra wide beam symmetrical 55° medium beam symmetrical 36° narrow beam symmetrical 15° narrow beam

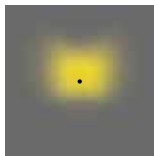
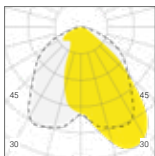
Fastening system

ADJUSTABLE
BRACKETPENDANT
MOUNTING

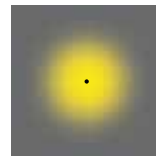
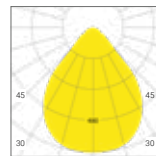


**Non-ageing UV-resistant PMMA lenses
with efficiency > 90%
and transparency > 95%**

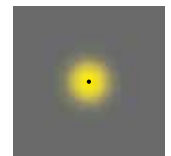
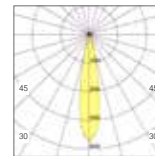
Optics



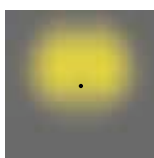
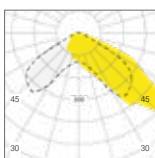
Asymmetrical 23° extra wide beam



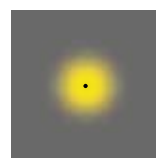
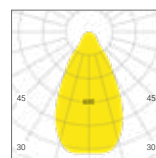
Symmetrical 81° extra wide beam



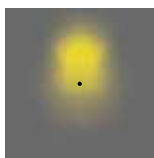
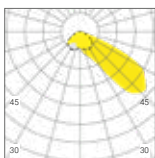
Symmetrical 15° narrow beam



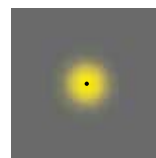
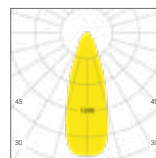
Asymmetrical 50° extra wide beam



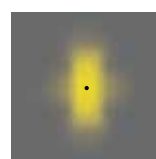
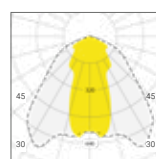
Symmetrical 55° medium beam



Asymmetrical 55° narrow beam



Symmetrical 36° narrow beam



Elliptical 95° x 41° beam

RINO



Series

Series of light fixtures designed for use in industrial, ATEX and marine environments, such as the food, chemical, mining industries, places with cutting oils and on board cruise ships. The light fixtures meet the highest quality standards, guaranteeing superior reliability and performance thanks to the construction of the body in a single cold-drawn piece and the high photometric performance.

The AISI 304 stainless steel body is suitable for use in heavy environments, at risk of explosion, in motorway tunnels and in ATEX contexts. For the marine sector with a saline atmosphere, versions with a painted galvanized steel or AISI 316L stainless steel body are available.

The special anti-aging elastomer reinforced gasket and stainless steel fixing hooks guarantee IP66 protection throughout the series. The range ensures excellent resistance to vibration thanks to the blind fixing pins and the pre-assembled anti-vibration system.

The 650 mm light fixtures with polycarbonate diffuser are equipped with the QUICK-BLOCK quick coupling system, for greater ease of installation and maintenance. There is also a new specific version for kitchens and pantries on board ships, designed to meet the special needs of these environments. Luminaries with a DALI power supply can be used with the wireless or IMPERIUM cable control system.



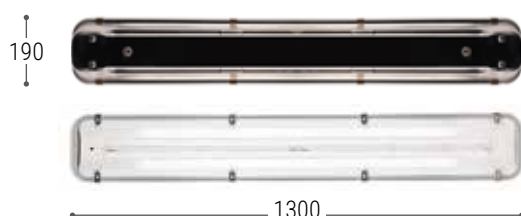
RINO 650 mm



RINO 690 mm



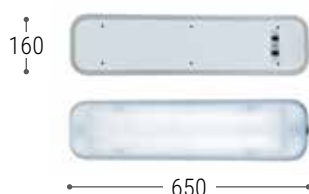
RINO 1300 mm



RINO-T54 650 mm



RINO-COOK 650 mm



RINO-NAVE 460 mm



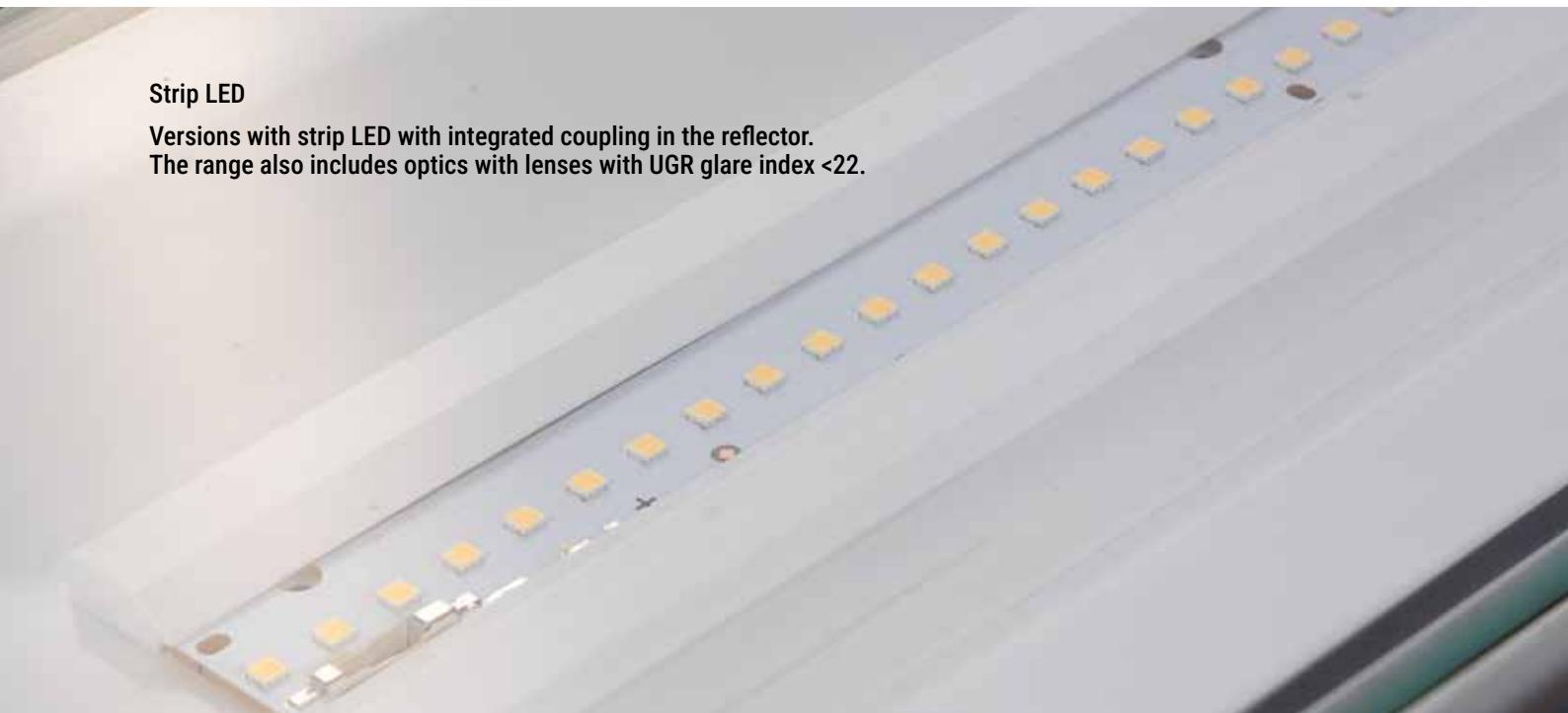
Range

	RINO light fixtures   → Page 130	RINO-EX M2 ATEX light fixtures   → Page 188	RINO-EX ATEX light fixtures   → Page 192
Nominal flux	from 4100 lm to 16750 lm	from 4080 lm to 14800 lm	from 4100 lm to 12260 lm
Output flux	from 3562 lm to 15020 lm	from 3400 lm to 12353 lm	from 3562 lm to 10050 lm
Power	up to 83 W	up to 86 W	up to 75 W
Efficacy	up to 181 lm/W	up to 148 lm/W	up to 137 lm/W
Control systems	on - off DALI	on - off DALI	on - off
Versions	standard emergency very high temperature (+65° C) high efficiency HACCP food	I M2 II 2G 2D emergency	3G - 2D emergency
Optics	symmetrical 110° extra wide beam symmetrical 88° comfort extra wide beam symmetrical 30°x 90° narrow beam	symmetrical 110° extra wide beam	symmetrical 110° extra wide beam symmetrical 88° comfort extra wide beam symmetrical 30° x 90° narrow beam

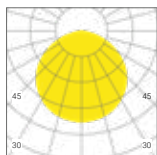
	RINO-T54 light fixtures   → Page 266	RINO-NAVE light fixtures   → Page 283	RINO-COOK light fixtures   → Page 286
Nominal flux	from 4353 lm to 7200 lm	from 2640 lm to 5760 lm	from 2880 lm to 5760 lm
Output flux	from 3628 lm to 6000 lm	from 2200 lm to 4800 lm	from 2400 lm to 4800 lm
Power	up to 45 W	up to 40 W	up to 40 W
Efficacy	up to 145 lm/W	up to 120 lm/W	120 lm/W
Control systems	dimnable 1-10 V	on - off	on - off
Versions	permanent	standard emergency	standard emergency
Optics	PA5 symmetrical axial and asymmetrical transversal beam	symmetrical 110° extra wide beam	symmetrical 110° extra wide beam

Strip LED

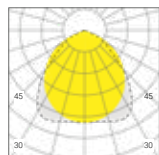
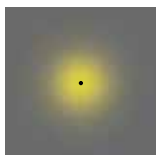
Versions with strip LED with integrated coupling in the reflector.
The range also includes optics with lenses with UGR glare index <22.



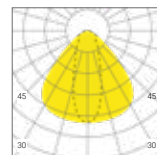
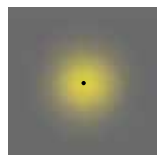
Optics



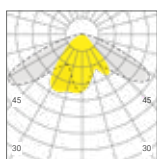
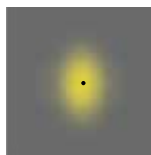
Symmetrical 110° extra wide beam



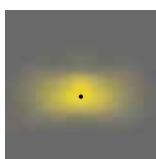
Symmetrical 88° comfort extra wide beam



Symmetrical 30°x 90° narrow beam



PA5 symmetrical axial
and asymmetrical transversal beam





RINO: Innovation and practicality

Palazzoli is proud to present one of its most recent technological innovations in the marine lighting sector: QUICK BLOCK, the patented system for quick coupling and release of the diffuser. This solution has been designed to simplify installation and maintenance operations, while ensuring high performance and durability, even in difficult environments such as kitchens, galleys, pantries and warehouses.

Technical characteristics of RINO light fixtures

- RINO-NAVE 650, light fixture for installation on board ship
- RINO COOK, light fixture for installation in marine kitchens, pantries and cold rooms
- RINO 650 with polycarbonate diffuser, light fixture for installation in industrial environments such as food industries.

The light fixtures are made with the highest quality materials to withstand the extreme conditions typical of marine and industrial environments. The body has high corrosion resistance and can be made of 316L stainless steel, 304 stainless steel or painted galvanized steel. The diffuser is made of transparent multi-lens polycarbonate, a robust and impact-resistant material. The entire system is protected by an IP66/IP67 degree of protection, which ensures total impermeability and the possibility of exposure in humid environments without compromising its operation.

In the marine light fixture, among other important technical features we find:

- White paint RAL9016, which guarantees a smooth and easy to clean surface
- Brass cable gland for a secure and durable connection.



QUICK BLOCK the innovative quick coupling system

The real novelty lies in the patented quick-coupling system for the diffuser, specifically designed to reduce installation times and simplify maintenance operations. Thanks to the ergonomic side buttons integrated into the diffuser, it can be removed and hooked to the light fixture body with a simple gesture, without the use of tools such as screwdrivers. This snap-on system eliminates the need for screws or other elements that could accumulate dirt or slow down operations, thus ensuring greater hygiene, a fundamental aspect in the context of kitchens and food environments. Opening takes place safely as the light fixture is equipped with a disconnecter.

All 650-size light fixtures with polycarbonate diffuser benefit from the innovative QUICK BLOCK quick coupling system, which allows to securely hook the diffuser to the base in less than 1 second without neglecting safety and waterproofing.

The QUICK BLOCK is composed of internal lever mechanisms in corrosion-resistant technopolymer.

The design of the prismatic polycarbonate diffuser and the side buttons is inspired by the concentric circles that form when a stone is thrown into the water.





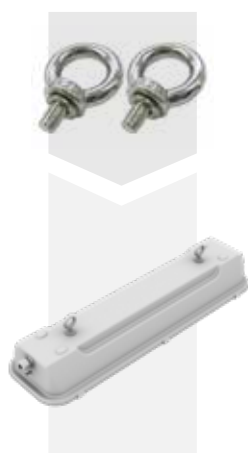
It is possible to provide a remote-controlled product on request through:

- internal node
- external node in separate box

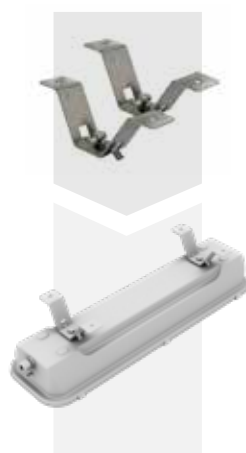
A solution for the complete radio remote control system for flexible and efficient plant management is also provided.

Fastening system

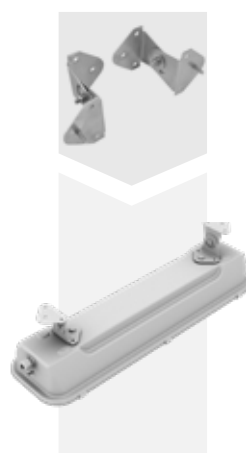
PENDANT
MOUNTING



CEILING
MOUNTING



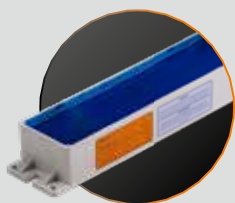
WALL - MOUNTED



HORIZONTAL
POLE



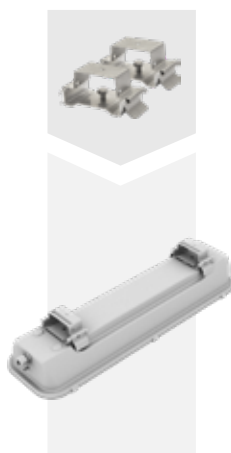
AC-DC power supply integrated in the body with direct connection to the connector to speed up the wiring.
 Driver adapter has low ripple < 3% and high Working Efficiency
 It is equipped with thermal protection against short circuit, overload and overvoltage.
 In the ATEX version, the input is via cable gland; the power supply is resin-coated and certified for environments at risk of explosion.



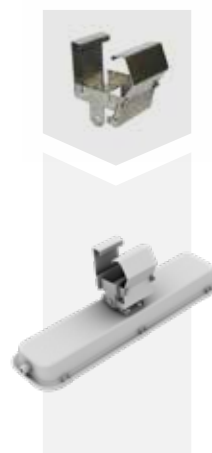
CEILING
MOUNTING



QUICK CEILING
ATTACHMENT



QUICK COUPLING
TO CABLE TRAY



FLIGHT



Series

New luminaires for street, tunnel and industrial lighting with body made of die-cast aluminium alloy EN44300 with very low copper content, treated with anti-corrosion to ensure maximum resistance even in harsh environments.

Electronic unit with proprietary LED modules, equipped with short-circuit, overvoltage and overtemperature protections.

The FLIGHT range also includes the novelty of the industrial floodlight, ideal for large operating areas, thus expanding the application possibilities. It is available with 99.9% pure aluminium reflectors or PMMA lenses with >95% transparency, offering a wide range of optics suitable for every need.

Extra-clear 4mm tempered, shock and UV resistant flat glass diffuser. Universal adjustable fastening system for pole head and arm, suitable for poles from 42 mm to 76 mm for the road version. The tunnel version can be accessorized with brackets for quick coupling to the cable tray, while the industrial floodlight is equipped with a bracket for wall installation.

FLIGHT uses white light LEDs with colour temperature from 2200K to 5700K and reaches an efficacy of 165 lm/W.

On request, it can be equipped with NEMA or ZHAGA socket, allowing the monitoring and centralized management of public lighting with wireless control and IoT integration. The tunnel VERSION can be controlled with radio wave, Power-Line Communication or DALI systems.



FLIGHT S floodlights



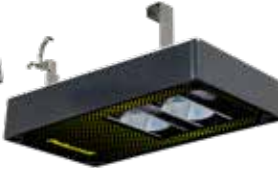
FLIGHT S - M street lighting

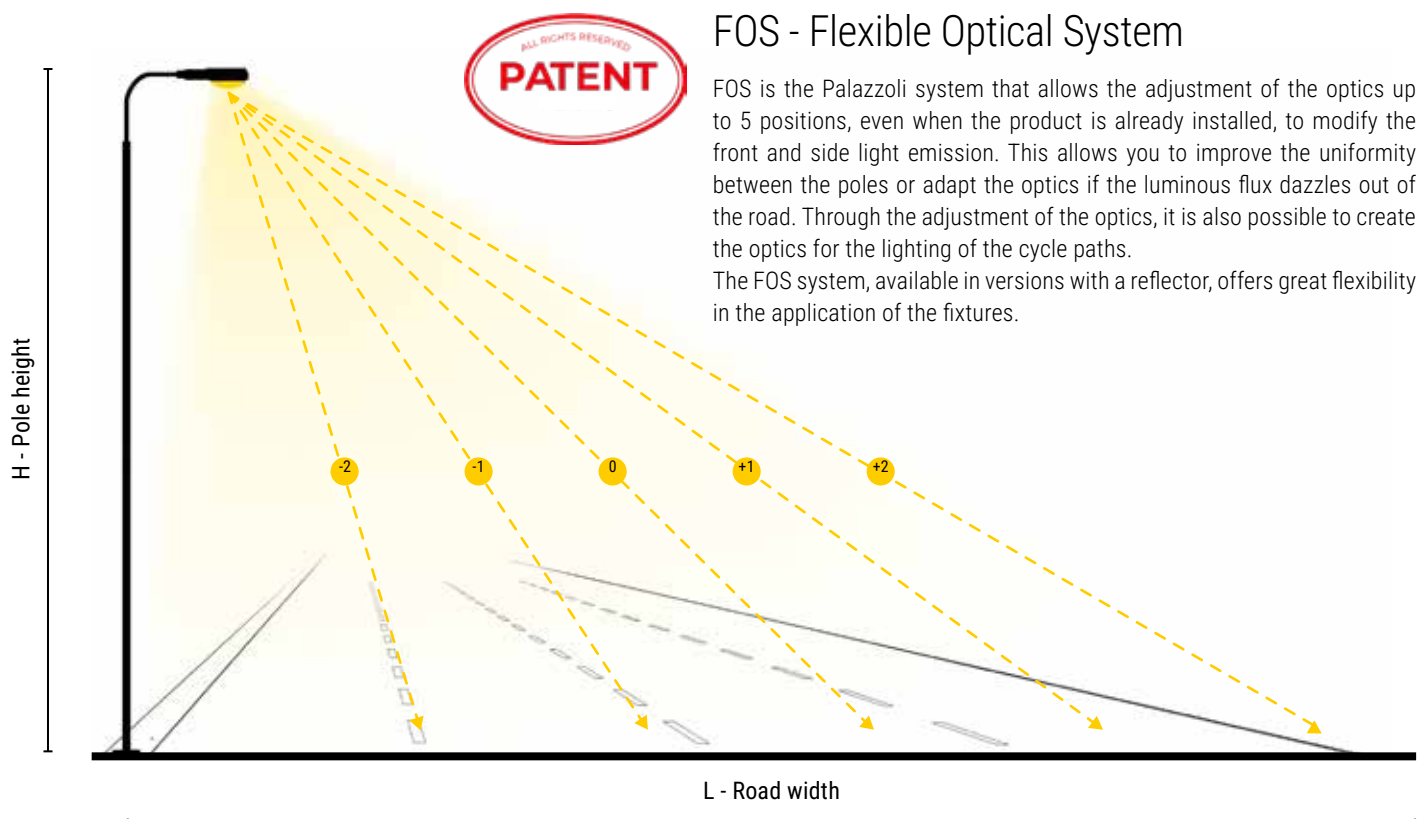


FLIGHT T-54 S - M tunnel light fixtures

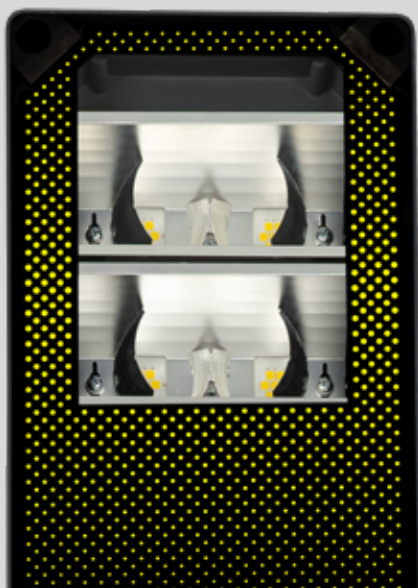


Range

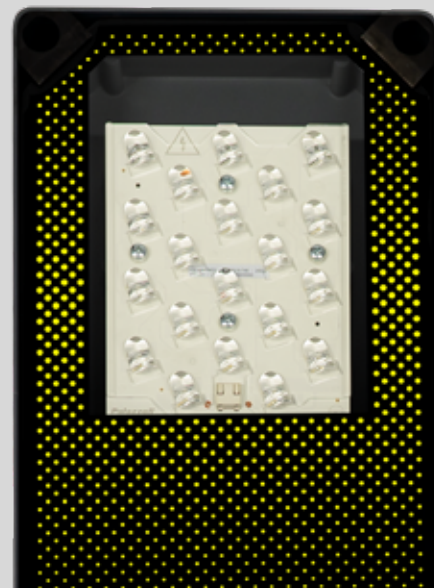
	FLIGHT S SIZE floodlights	FLIGHT S SIZE roadway lighting systems	FLIGHT M SIZE roadway lighting systems	FLIGHT-T54 S SIZE tunnel light fixtures	FLIGHT-T54 M SIZE tunnel light fixtures
					
	 → Page 122	 → Page 220	 → Page 227	 → Page 257	 → Page 258
Nominal flux	from 6300 lm to 12444 lm	from 2726 lm to 12044 lm	from 13000 lm to 361362 lm	from 5520 lm to 12044 lm	from 17820 lm to 35112 lm
Output flux	from 5250 lm to 10370 lm	from 2272 lm to 10037 lm	from 10900 lm to 30110 lm	from 4600 lm to 10037 lm	from 14850 lm to 29260 lm
Power	up to 61 W	up to 66 W	up to 197 W	up to 66 W	up to 220 W
Efficacy	up to 180 lm/W	up to 165 lm/W	up to 166 lm/W	up to 165 lm/W	up to 135 lm/W
Control systems	on - off (dimmable on request using different standards)	on - off (dimmable on request using different standards)	on - off (dimmable on request using different standards)	on - off (dimmable on request using different standards)	on - off (dimmable on request using different standards)
Versions	standard	standard high temperature (+55° C)	standard high temperature (+55° C)	standard	standard
Optics	roadway 65° wide beam large areas 60° extra wide beam symmetrical 120° extra wide beam	STR-ST roadway narrow beam STR-AM roadway wide beam cycle lane beam left crosswalks beam right crosswalks beam roadway 45° wide beam roadway 45° wide beam large areas 60° extra wide beam	STR-ST roadway narrow beam STR-AM roadway wide beam left crosswalks beam right crosswalks beam roadway 45° wide beam roadway 45° wide beam large areas 60° extra wide beam	PA5 permanent asymmetrical beam STR-ST permanent asymmetrical beam STR-AM permanent asymmetrical beam	reinforcement asymmetrical 50° extra wide beam reinforcement asymmetrical 55° narrow beam reinforcement symmetrical 65° beam



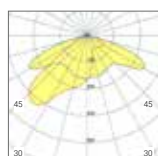
FLIGHT range
with aluminium reflectors
99.9% pure
with silver PVD coating.



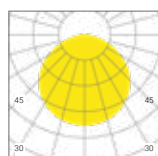
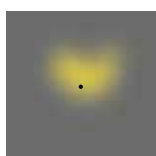
FLIGHT range with non-ageing
UV-resistant PMMA lenses
with efficiency >90%
and transparency >95%.



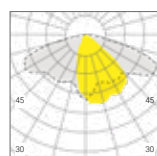
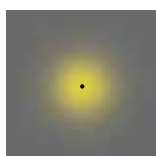
Optics



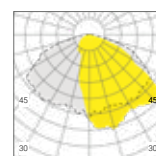
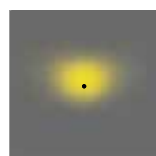
Roadway 65° wide beam



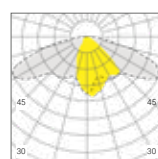
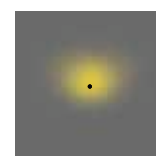
Symmetrical 120° extra wide beam



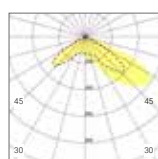
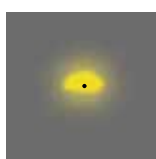
STR-ST roadway narrow beam



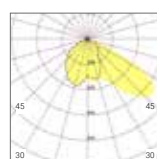
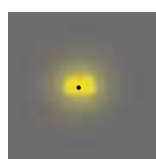
STR-AM roadway wide beam



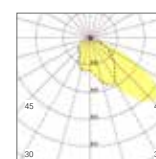
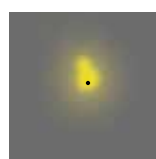
Cycle lane beam



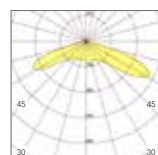
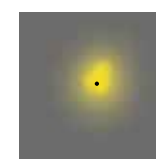
Large areas 60° extra wide beam



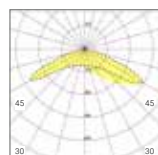
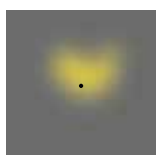
Left crosswalks beam



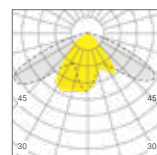
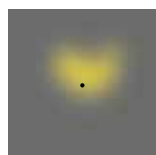
Right crosswalks beam



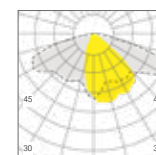
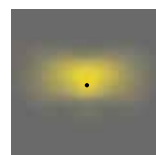
Roadway 45° wide beam



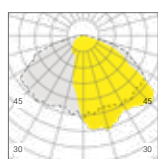
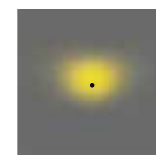
Roadway 65° wide beam



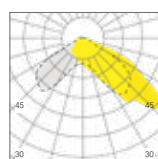
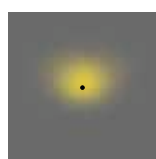
PA5 permanent asymmetrical beam



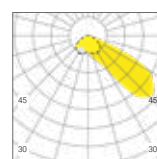
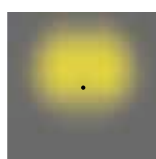
STR-ST permanent asymmetrical beam



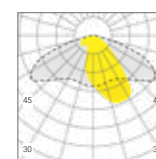
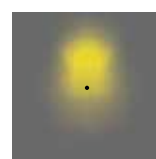
STR-AM permanent asymmetrical beam



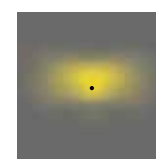
Reinforcement asymmetrical 50°
extra wide beam

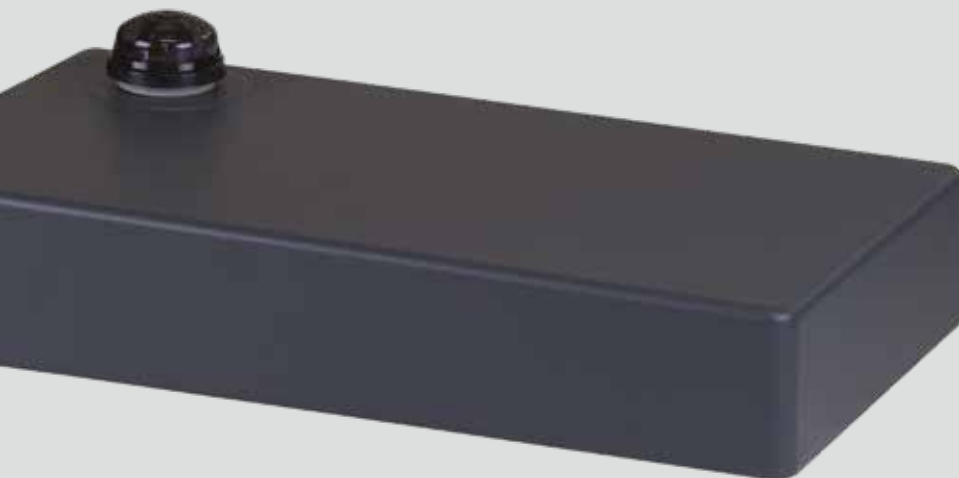


Reinforcement asymmetrical 55°
narrow beam



Reinforcement symmetrical 65° beam





It is possible to provide a remote-controlled product on request through:

- ZHAGA node
- NEMA node
- internal node
- external node in separate box.

It is also possible to provide a solution for the complete radio remote control system for flexible and efficient plant management.

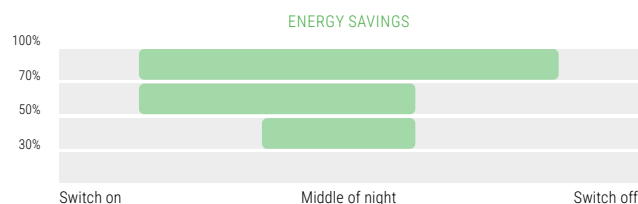
Ready for smart cities

FLIGHT can be equipped with adjustment-based controls with in-product timers and wireless systems for integration into the IoT world. These systems allow you to monitor and manage public lighting in real time, reduce operating costs and dynamically program light levels. Two different connection solutions for light management devices can be integrated on the body of the luminaire: the ZHAGA socket and the NEMA socket.

ZHAGA Socket (ZHAGA Book 18): a standardized waterproof socket, supplied with very low voltage through the Dali driver inside the luminaire. It is designed to handle modern wireless remote management systems. UV resistant materials and impact toughness complete the features of this reliable connector.

NEMA Socket (ANSI C136.41): a powered waterproof socket, positioned on the lid of the luminaire to facilitate maintenance without the need to access the internal electrical parts. It is ideal for installing traditional brightness sensors and is available with 5 or 7 poles: 3 for the electrical connection and the remaining 2 or 4 for transmitting signals with 1/10V or DALI protocol.

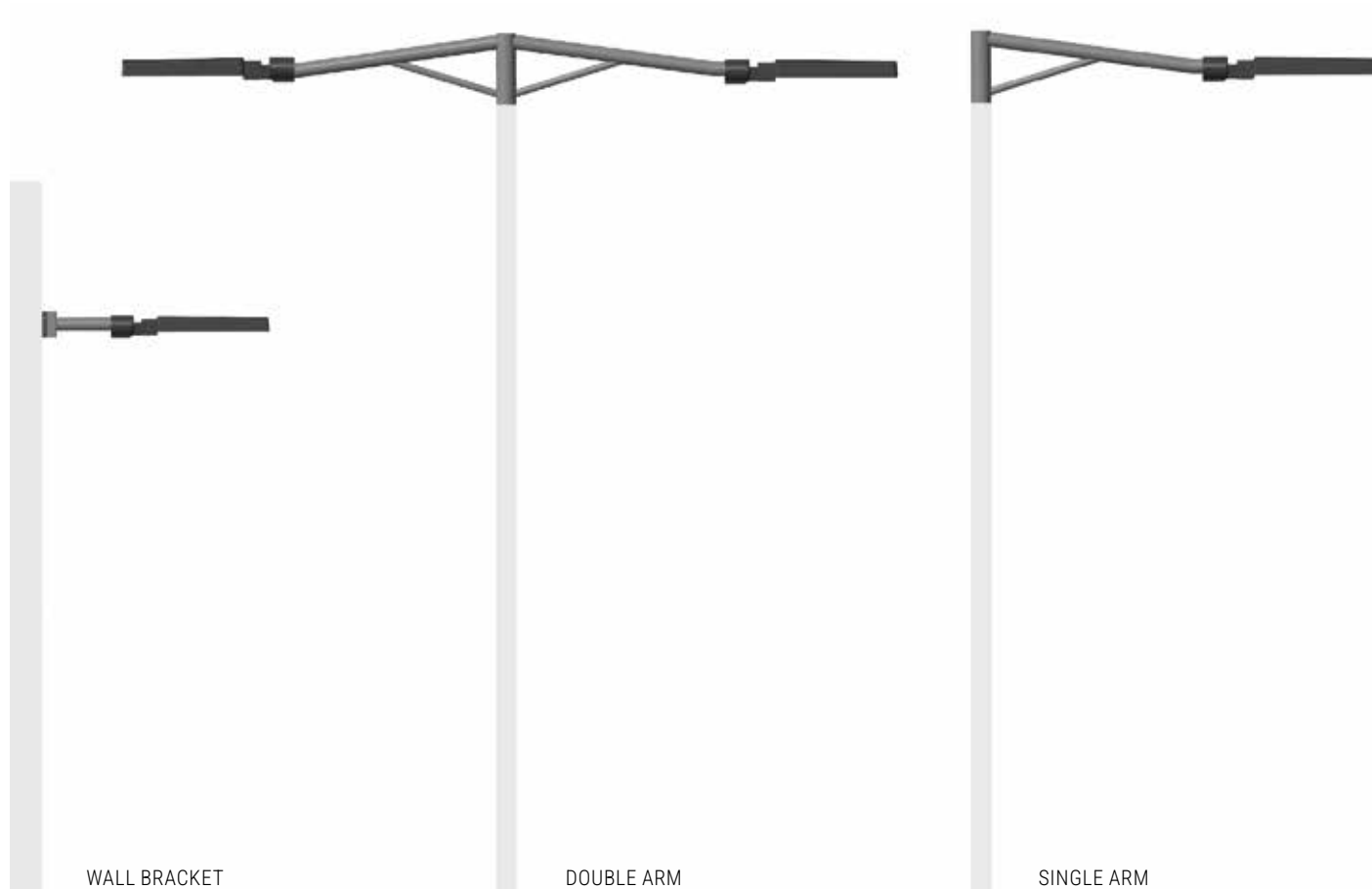
These solutions can be completed with remote control nodes that can be installed on the ZHAGA socket, on the NEMA socket, inside the luminaire or in an external box. Remote-controlled products can be integrated into Palazzoli's IMPERIUM Smart City system, designed for the intelligent management of street and tunnel lighting.



Electronic unit with proprietary LED modules, power supply integrated in the body with direct connection to speed up wiring. The tunnel version comes with cable and plug.



Fastening system



WALL BRACKET

DOUBLE ARM

SINGLE ARM

FIT 55



Series

New street luminaires composed of a die-cast aluminium enclosure. Electronic unit with proprietary LED modules, equipped with disconnecter, short-circuit, overvoltage and overtemperature protections. The disconnecter guarantees safe maintenance even without disconnecting the power supply.

Optical group consisting of reflectors in 99.9% pure aluminium to offer a very high photometric efficiency unalterable over time and perfect glare control.

FIT 55 allows the best lighting for the different areas of circulation thanks to its STR-AM and STR-ST reflectors.

Extra-clear 4 mm thick tempered, resistant to shocks and UV rays flat glass diffuser. Lid free of fins with removable plate snap from the body without tools. Universal adjustable fastening system for head pole and arm, suitable for poles from min 42 mm to max 76 mm.

FIT 55 uses white light LEDs with colour temperature from 2200K to 5700K and reaches an efficacy of 166 lm/W.

FIT 55 complies with zone 1 (zone highly protected against light pollution) and is therefore suitable for illumination even in the vicinity of astronomical observatories.

Upon request, FIT 55 can be equipped or prepared for the installation of NEMA or ZHAGA socket, for central control management of public lighting through wireless control that will allow integration with the IoT world.



FIT 55 S



FIT 55 M



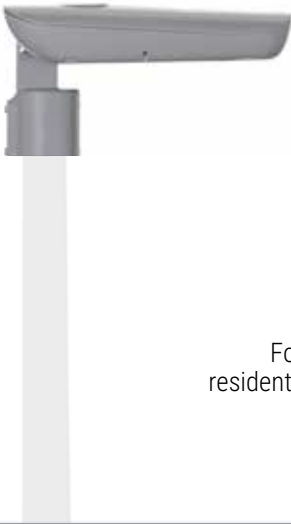
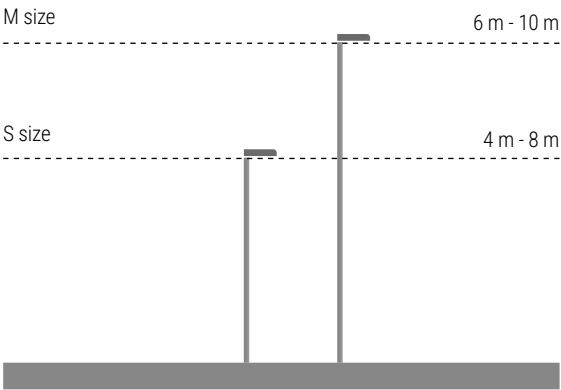
Range

FIT 55
roadway lighting systems



→ Page 232

Nominal flux	from 3386 lm to 35899 lm
Output flux	from 2822 lm to 29916 lm
Power	up to 209 W
Efficacy	up to 166 lm/W
Control systems	on - off virtual midnight
Versions	standard high temperature (+55° C)
Optics	STR-ST roadway narrow beam adjustable in 5 positions STR-AM roadway wide beam adjustable in 3 positions



FIT 55 S SIZE

Up to 85 W
Up to 12000 lm
No. 8 optics
For secondary roads, roundabouts,
residential roads, cycle paths, pedestrian
crossings, parkings.



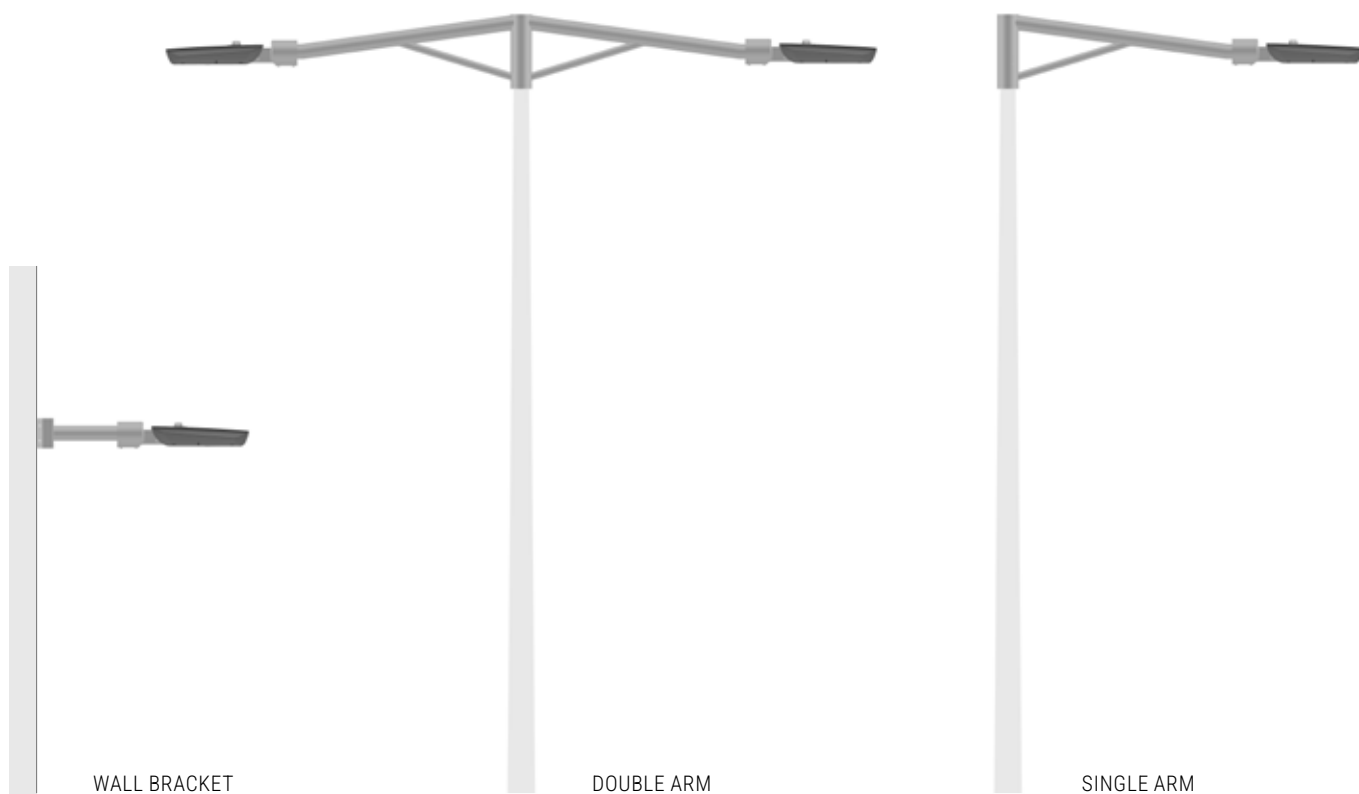
FIT 55 M SIZE

Up to 209 W
Up to 30000 lm
No. 8 optics
For main roads, freeways
and highways.

99.9% pure aluminium reflectors with silver PVD coating to offer high photometric efficiency unalterable over time and perfect glare control.



Fastening system

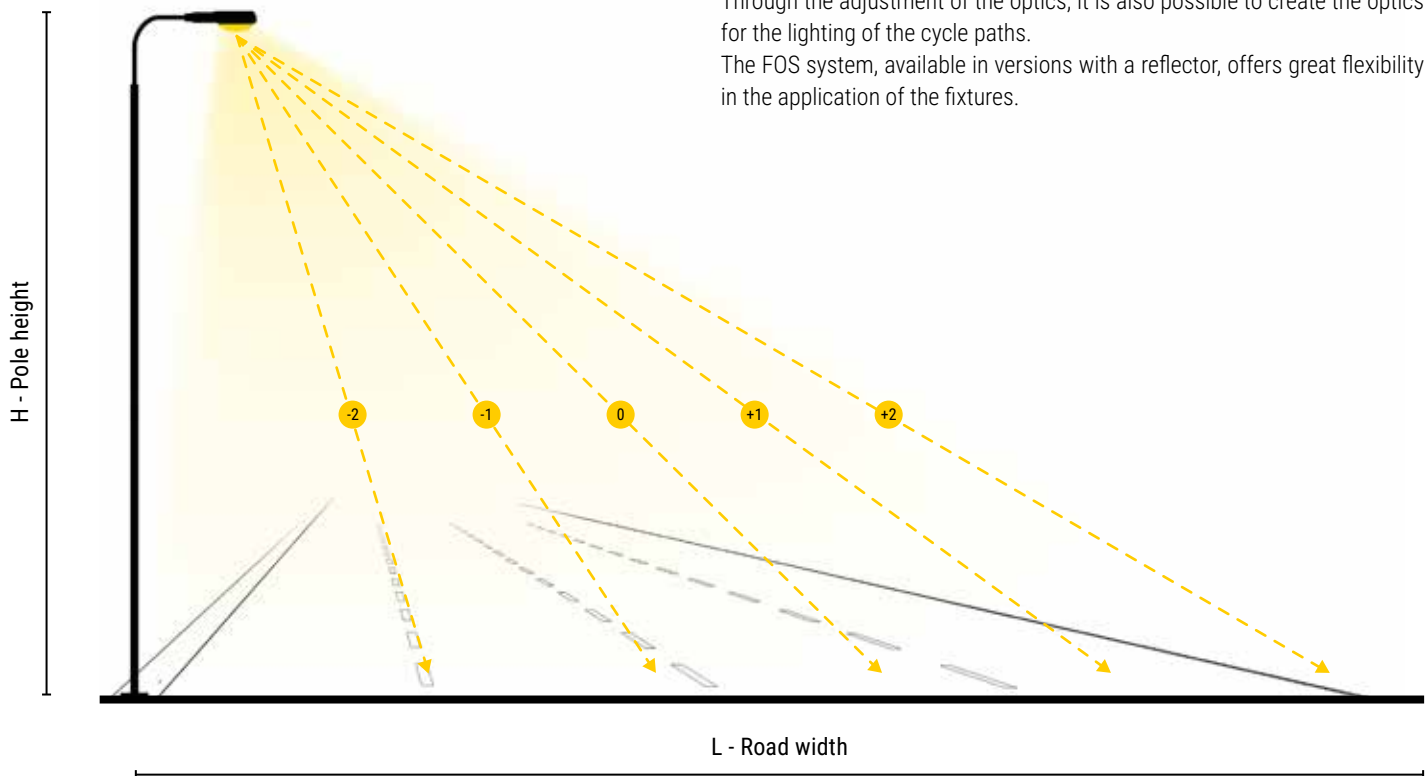


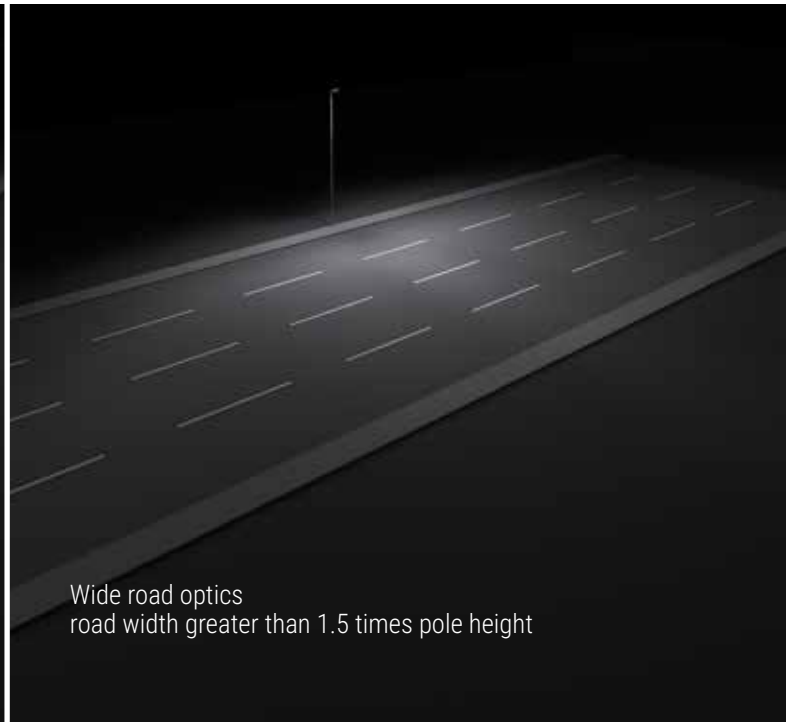
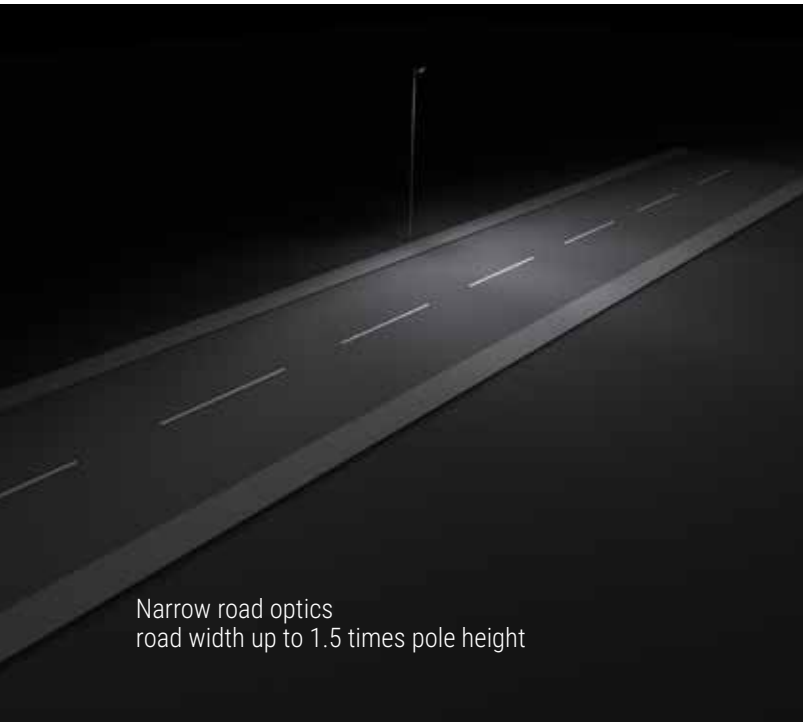


FOS - Flexible Optical System

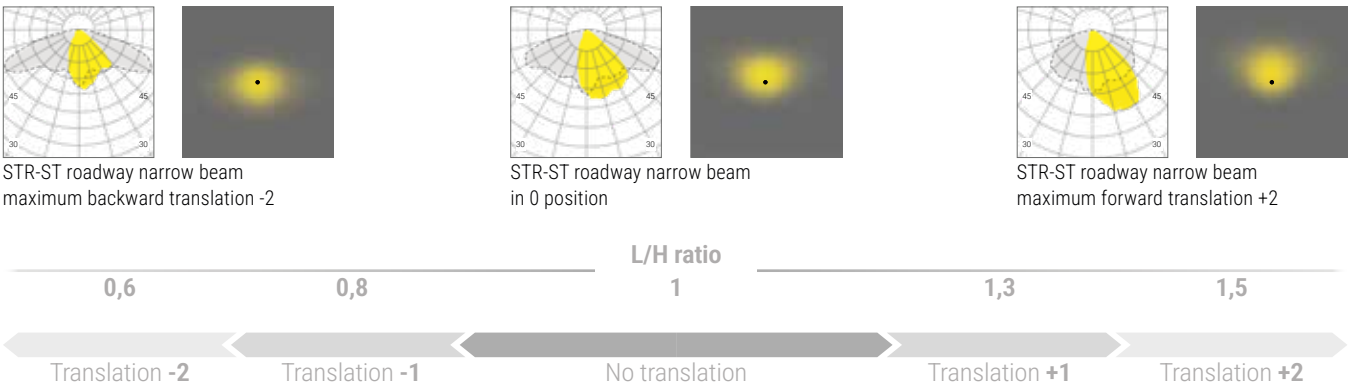
FOS is the Palazzoli system that allows the adjustment of the optics up to 5 positions, even when the product is already installed, to modify the front and side light emission. This allows you to improve the uniformity between the poles or adapt the optics if the luminous flux dazzles out of the road. Through the adjustment of the optics, it is also possible to create the optics for the lighting of the cycle paths.

The FOS system, available in versions with a reflector, offers great flexibility in the application of the fixtures.

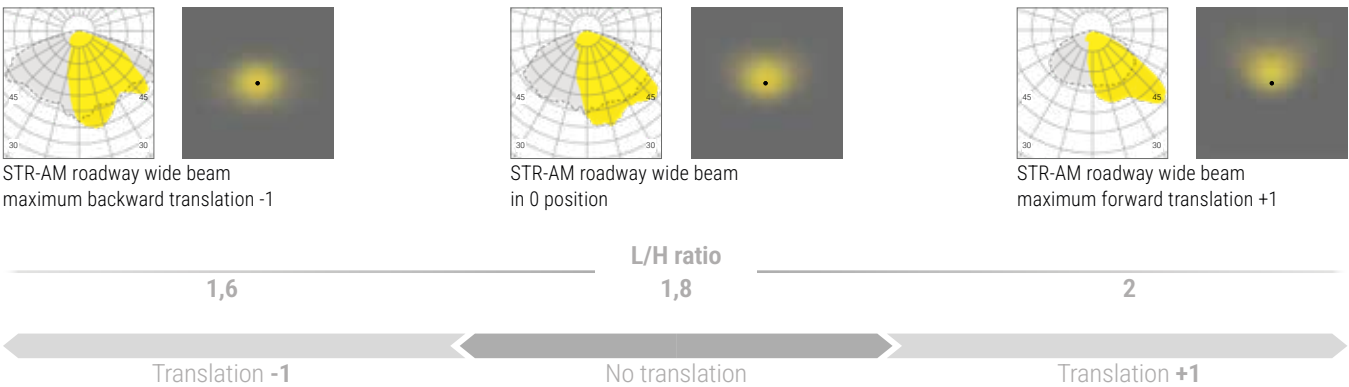




Narrow Road Optic



Wide road optic





It is possible to provide a remote-controlled product on request through:

- ZHAGA node
- NEMA node
- internal node
- external node in separate box.

It is also possible to provide a solution for the complete radio remote control system for flexible and efficient plant management.

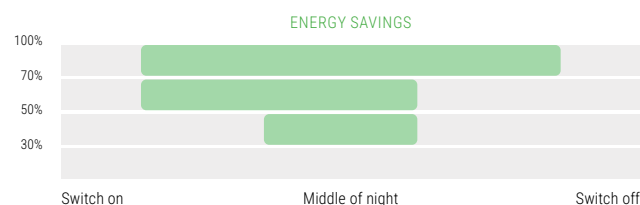
Ready for smart cities

In addition to the luminous flux dimming solution based on adjustments with timer inside the product, FIT 55 can be equipped with wireless controls for integration into the IoT world. These allow you to monitor and manage public lighting in real time, reduce operating costs and dynamically program light levels. Two connection solutions for light management devices can be integrated on the body of the luminaire: the ZHAGA socket and the NEMA socket.

ZHAGA socket (ZHAGA book 18): a standardized waterproof socket, supplied with very low voltage through the DALI2 driver inside the luminaire. It is ideal for modern wireless remote management systems. The resistance to UV rays and impacts guarantees reliability and durability even in difficult conditions.

NEMA Socket (ANSI C136.41): a powered waterproof socket, positioned on the lid of the luminaire to simplify maintenance by avoiding access to internal electrical parts. It is designed for the installation of traditional brightness sensors and is available with 5 or 7 poles: 3 for the electrical connection and the remaining 2 or 4 to transmit signals with 1/10V or DALI protocol.

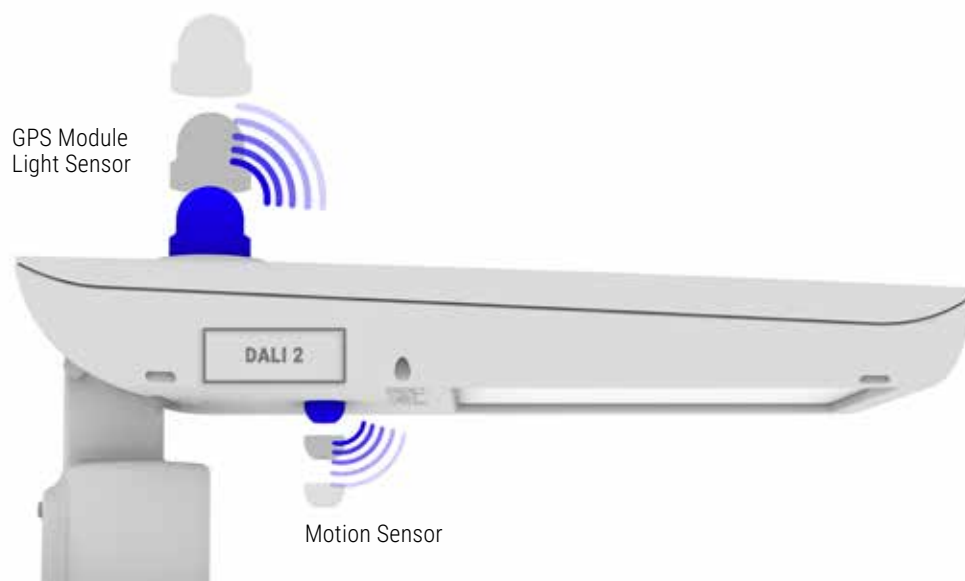
These solutions can be completed with remote control nodes that can be installed on the ZHAGA socket, on the NEMA socket, inside the luminaire or in an external box. Remote-controlled products can be integrated into Palazzoli's IMPERIUM Smart City system, designed for the intelligent management of street and tunnel lighting.



Electronic unit with proprietary LED modules, equipped with disconnecter, short circuit protections, overvoltages and overtemperature. The disconnecter guarantees safe maintenance even without disconnecting the power supply.



A solution with additional Zhaga Book18 socket at the bottom of the luminaire is also available to power a motion sensor.



FIT URBAN



Series

Palazzoli's URBAN FIT LED luminaire is an advanced solution for urban and street lighting, designed to ensure high performance and durability. The body is made of die-cast aluminium alloy EN44300, characterized by a very low copper content, which guarantees excellent corrosion resistance even in difficult and hostile environments.

Thanks to a high quality anti-corrosion treatment, FIT URBAN ensures a long service life, reducing maintenance costs.

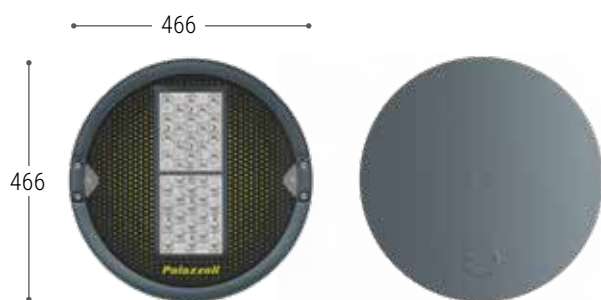
The luminaire is equipped with an electronic unit with proprietary LED modules, short-circuit, overvoltage and overtemperature protections, offering maximum operational safety. The range of lenses available for FIT URBAN is wide and flexible: 99.9% pure aluminium reflectors or PMMA lenses with a degree of transparency greater than 95% are available. This flexibility allows installation in a wide range of urban contexts, always guaranteeing maximum lighting efficiency.

The 4 mm thick extra-clear tempered glass diffuser, resistant to shocks and UV rays, helps protect internal components and maintain optical efficiency over time.

FIT URBAN is equipped with a universal and adjustable fastening system, suitable for installations on a head pole, arm, tensioned or pendant mounting. FIT URBAN LEDs offer a range of colour temperatures ranging from 2200K to 5700K, guaranteeing a luminous efficacy of up to 170 lm/W. On request, it can be set up with NEMA or ZHAGA sockets for remote monitoring and smart management of public lighting, integrating with the most advanced IoT solutions.



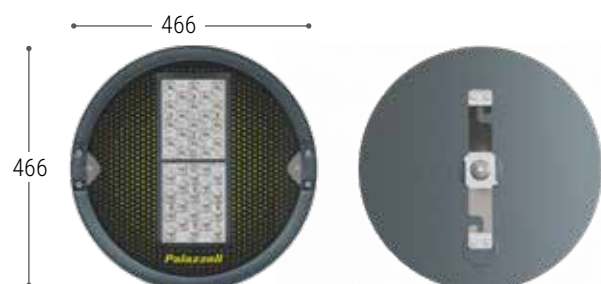
FIT URBAN pole - top



FIT URBAN with arm



FIT URBAN catenary wire

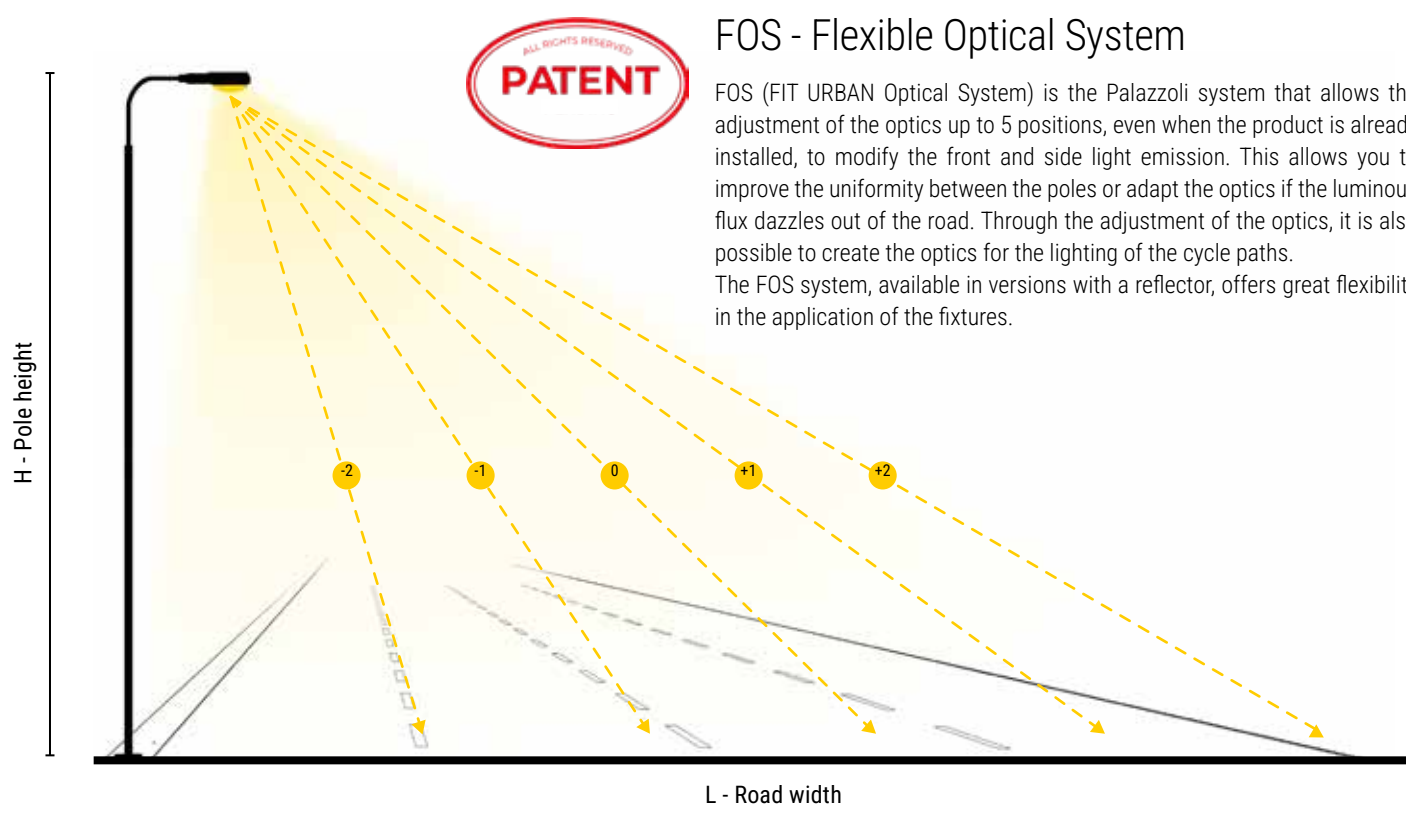


FIT URBAN pendant mounting



Range

	FIT URBAN pole - top	FIT URBAN with arm	FIT URBAN catenary wire	FIT URBAN pendant mounting
	  → Page 246	  → Page 250	  → Page 251	  → Page 253
Nominal flux	from 3000 lm to 19488 lm	from 3000 lm to 19488 lm	from 8700 lm to 19488 lm	from 3000 lm to 19500 lm
Output flux	from 2500 lm to 17787 lm	from 2500 lm to 16240 lm	from 7236 lm to 16240 lm	from 2500 lm to 16240 lm
Power	up to 121 W	up to 121 W	up to 121 W	up to 121 W
Efficacy	up to 170 lm/W	up to 156 lm/W	up to 145 lm/W	up to 166 lm/W
Control systems	on - off (dimnable on request using different standards)	on - off (dimnable on request using different standards)	on - off (dimnable on request using different standards)	on - off (dimnable on request using different standards)
Versions	standard high temperature (+60°C)	standard high temperature (+60°C) on request	standard high temperature (+60°C) on request	standard high temperature (+60°C)
Optics	roadway 60° wide beam STR-ST roadway narrow beam cycle lane beam symmetrical 120° beam	roadway 60° wide beam large areas 60° extra wide beam	road centre wide beam road centre narrow beam	roadway 60° wide beam STR-ST roadway narrow beam



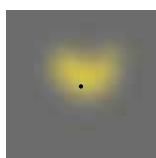
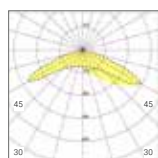
FIT urban range with non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%.



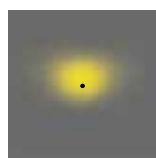
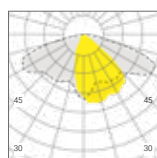
FIT urban range with 99.9% pure aluminium reflectors with silver PVD coating.



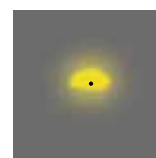
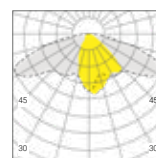
Optics



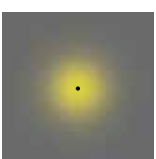
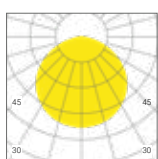
Roadway 60° wide beam



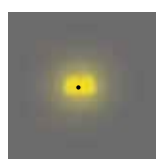
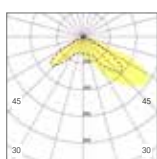
STR-ST roadway narrow beam



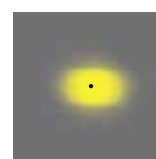
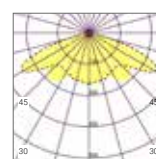
Cycle lane beam



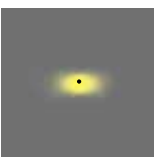
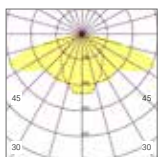
Symmetrical 120° beam



Large areas 60° extra wide beam



Road centre wide beam



Road centre narrow beam



All products of the FIT URBAN series, on request, can be integrated with different solutions for remote control:

- ZHAGA node
- NEMA node
- internal node
- node in an external box.

In addition to this, Palazzoli is able to offer a complete remote control management system for the luminaires, integrating them into a smart city.

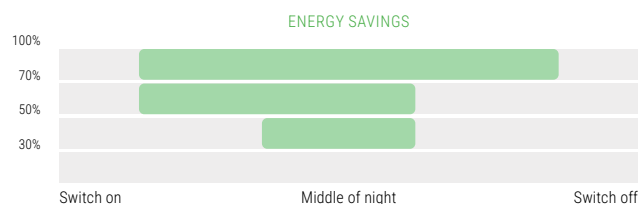
Ready for smart cities

FIT URBAN can be equipped with adjustment-based controls with in-product timers and wireless systems for integration into the IoT world. These allow you to monitor and manage public lighting in real time, reduce operating costs and dynamically program light levels. Two connection solutions for light management devices can be integrated on the body of the luminaire: the ZHAGA socket and the NEMA socket.

ZHAGA Socket (ZHAGA Book 18): a standardized waterproof socket, supplied with very low voltage through the DALI driver inside the luminaire. It is designed for modern wireless remote management systems. Thanks to its UV resistance and robustness, it guarantees reliable operation even in harsh environments.

NEMA Socket (ANSI C136.41): a powered waterproof socket, positioned on the lid of the luminaire to facilitate maintenance without having to access the internal electrical parts. It is designed to install traditional brightness sensors and is available with 5 or 7 poles: 3 for the electrical connection and the remaining 2 or 4 to transmit signals with 1/10V or DALI protocol.

These solutions can be completed with remote control nodes that can be installed on the ZHAGA socket, on the NEMA socket, inside the luminaire or in an external box. Remote-controlled products can be integrated into Palazzoli's IMPERIUM Smart City system for the intelligent management of street and urban lighting.



Electronic unit with proprietary LED modules, integrated power supply in the body with direct connection to speed up the wiring.



Fastening system



POLE - TOP



ARM



PENDANT MOUNTING



CATENARY WIRE

XRINO - T54



Series

Series of floodlights suitable for use in the lighting of motorway tunnels. The floodlights meet the highest quality standards to guarantee superior reliability and performance, such as the construction of the AISI 316L stainless steel body and high photometric performance.

The RINO-T54 series is ideal for permanent lighting inside the tunnels while the XRINO-T54 series has been designed to be able to achieve reinforcement lighting at the mouth of the tunnel. Optics are available with reflectors in 99.9% pure aluminium or with PMMA lenses with >95% transparency; this flexibility allows the range to adapt to the different plant situations of the tunnels. The electronics selected for the internal components guarantee high lighting performance. The extra-clear 4 mm thick flat tempered glass diffuser, in addition to being shock-resistant, guarantees the maintenance of the product's lighting characteristics over time.

The range guarantees excellent vibration resistance thanks to the blind fixing pins and pre-assembled anti-vibration system.

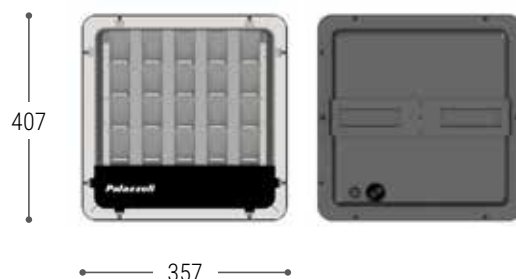
The devices are designed to be managed remotely with the various remote control systems.



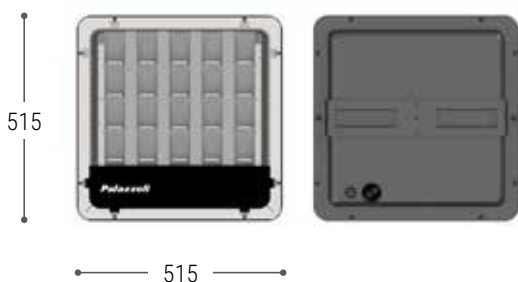
RINO-T54 650 mm



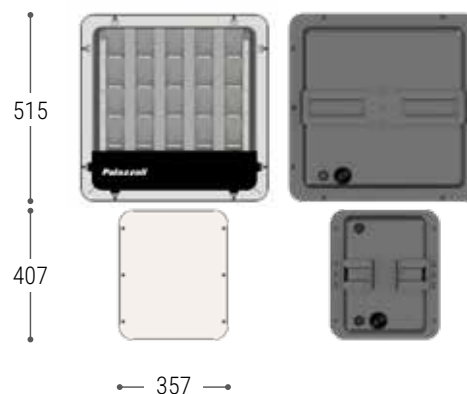
XRINO-T54 - M reinforcement



XRINO-T54 - L reinforcement



XRINO-T54 - XL reinforcement with power supply box



Range

XRINO-T54 M
light fixtures



→ Page 268

XRINO-T54 L
light fixtures



→ Page 269

XRINO-T54 XL
light fixtures



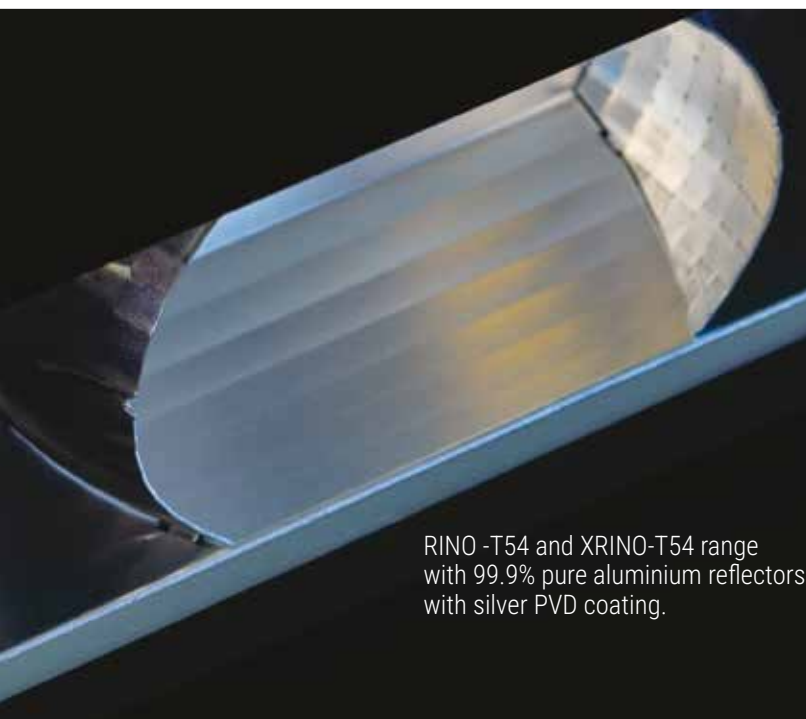
→ Page 270

Nominal flux	from 9655 lm to 11000 lm	from 16800 lm to 33480 lm	from 44100 lm to 70000 lm
Output flux	from 8046 lm to 9152 lm	from 13932 lm to 27900 lm	from 36750 lm to 59202 lm
Power	up to 64 W	up to 186 W	up to 429 W
Efficacy	up to 149 lm/W	up to 162 lm/W	up to 147 lm/W
Control systems	dimnable 1-10 V	dimnable 1-10 V	dimnable 1-10 V
Versions	reinforcement	reinforcement	reinforcement
Optics	RS5 counterbeam axial 55° and symmetrical transversal beam reinforcement asymmetrical 55° narrow beam reinforcement symmetrical 65° beam	RS5 counterbeam axial 55° and symmetrical transversal beam reinforcement asymmetrical 55° narrow beam reinforcement symmetrical 65° beam	RS5 counterbeam axial 55° and symmetrical transversal beam reinforcement asymmetrical 55° narrow beam reinforcement symmetrical 65° beam°

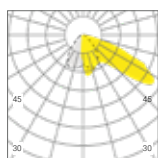
Fastening system

CABLE TRAY QUICK COUPLING

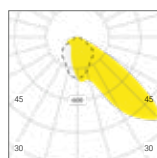




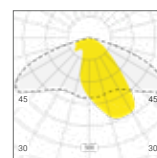
Optics



RS5 counterbeam axial 55°
and symmetrical transversal beam

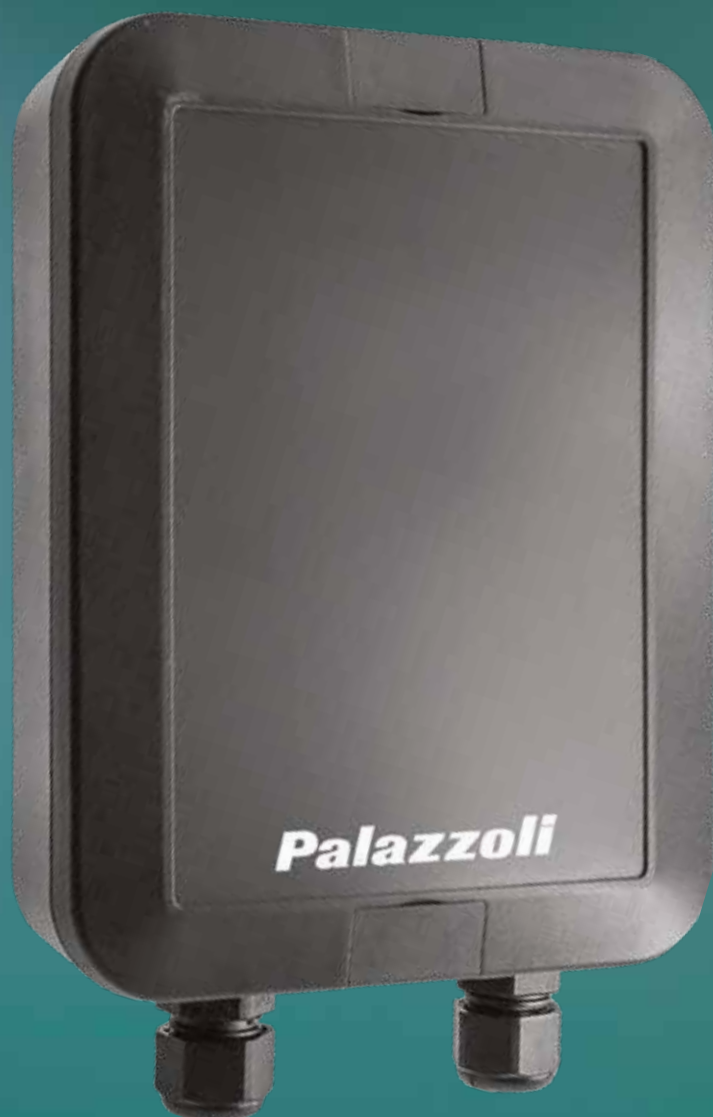


Reinforcement asymmetrical 55° narrow beam



Reinforcement symmetrical 65° beam

IMPERIUM



To turn on the light only when needed
and adjust the brightness intensity according
to the contribution of natural light

Control systems

PALAZZOLI's advanced lighting control solutions for industrial, logistics and infrastructural environments represent a perfect technological innovation to optimize energy consumption, automate management and efficiently monitor lighting systems, both in production contexts and in infrastructures such as roads and tunnels.

Thanks to motion and ambient light sensors, which can be integrated directly into the luminaires or used as stand-alone devices, energy savings of up to 60% of the installed power can be achieved, in addition to the benefits offered by LED technology. PALAZZOLI solutions, based on wireless technology, offer flexible and interconnected management of luminaires and sensors without the need for changes to the existing electrical system. This makes them ideal for upgrades in already operational environments, where extensive structural interventions could be expensive or difficult.

In the infrastructural field, PALAZZOLI solutions for street lighting and tunnels use control systems based on radio waves, which allow intelligent and automated lighting management over long distances without the need for wiring. These systems adjust the luminous intensity in real time according to traffic and climatic conditions, increasing safety and reducing energy consumption.

In road and tunnel systems, radio wave management allows lighting to be synchronized with the flux of vehicles, always guaranteeing optimal visibility.



IMPERIUM DALI WIRED



IMPERIUM wireless



IMPERIUM smart city - road



IMPERIUM smart city - tunnel

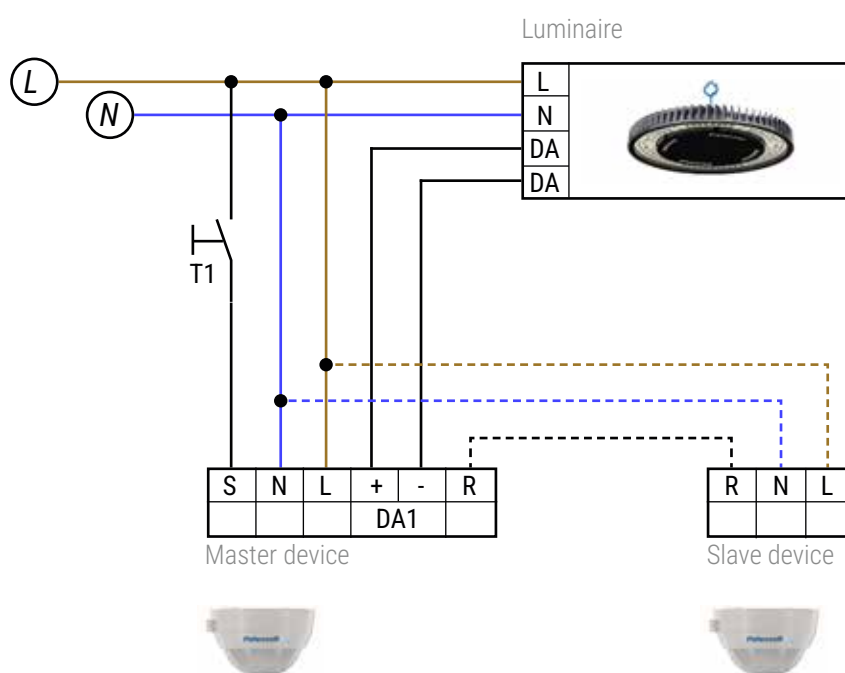


PALAZZOLI solutions offer intelligent and advanced lighting control for every context, industry or infrastructural, in compliance with the latest energy regulations, and allow remote management and monitoring for an efficient, scalable and sustainable system.

IMPERIUM DALI wired → Page 160

IMPERIUM DALI WIRED is a solution that integrates light and motion sensors (deactivable) with luminaires equipped with DALI drivers. The sensors adjust the artificial lighting to maintain the desired level of light on the worktop, adapting to the presence of people (deactivable function) and the contribution of natural light. The lights turn off automatically after 5 minutes if the natural light exceeds the set level and/or no presence is detected within the configured delay time. The control system designed for indoor lighting management.

Architecture of the wired system



Luminaries



The Palazzoli lighting fixtures can be controlled by the sensor.

Sensor



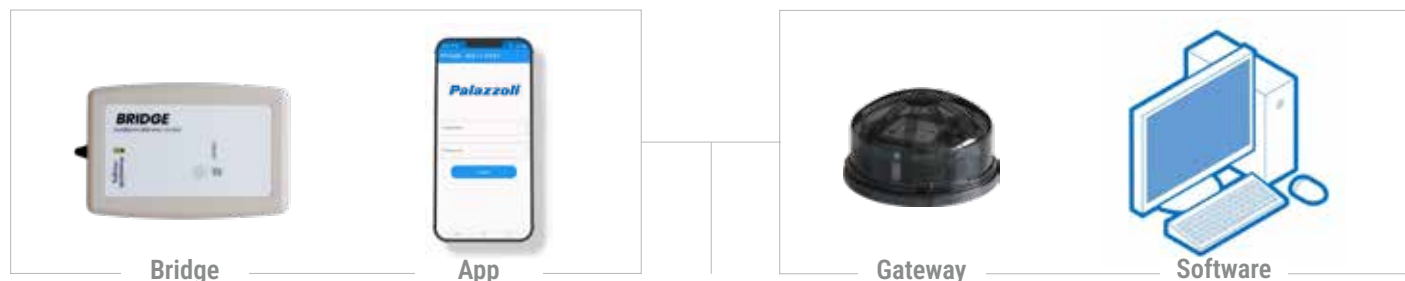
It detects movement and brightness. It communicates with the luminaires.

IMPERIUM Wireless → Page 162

IMPERIUM WIRELESS is an innovative radio wave control system with simultaneous Dual Band (2.4 GHz - 868 MHz) designed for the lighting management in industrial areas.

The system can be supplied by ordering the codes on page 163-164 or custom-made on request.

Central management platform



It communicates with the remote control nodes and allows the end user to manage the system remotely.

Remote control nodes



They are installed internally or externally to the luminaire. They turn on, turn off and dim the lighting fixture. They communicate with the remote control nodes of the same system. They receive commands from the gateway or bridge.

Luminaries



The Palazzoli lighting fixtures can be equipped with remote control nodes and controlled by the central management platform.

Sensors

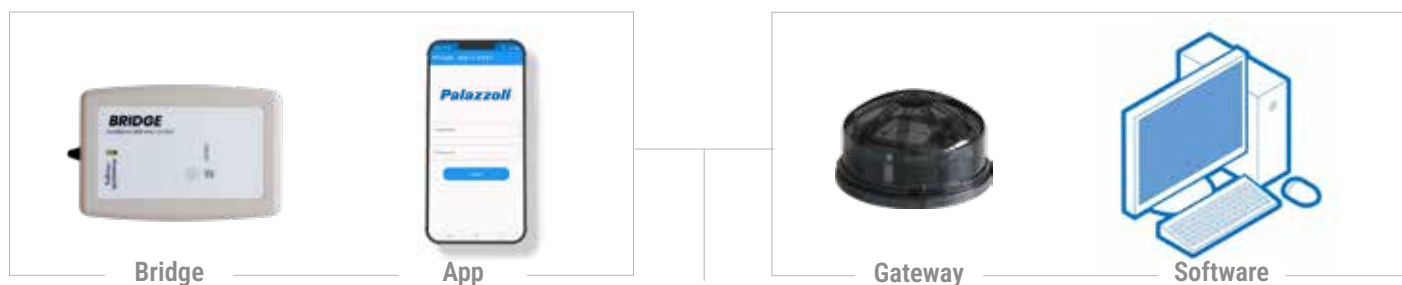


The sensors are remote control nodes with integrated functions for motion and brightness detection. They can be supplied with a stand-alone installation box or supplied on request already mounted on the luminaire.

IMPERIUM Smart City - Road

IMPERIUM Smart City - Road is an innovative radio wave control system with simultaneous Dual Band (2.4 GHz - 868 MHz) designed for the intelligent management of street and urban lighting. This system consists of a central management platform, nodes and sensors and can be customized on request.

Central management platform



They communicate with the remote control nodes and allow the end user to manage the system remotely.

Remote control nodes



They are installed internally or externally to the luminaire. They turn on, turn off and dim the illuminating body. They communicate with the remote control nodes of the same system. They receive commands from the gateway or bridge.

Luminaries



The Palazzoli lighting fixtures can be equipped with remote control nodes and controlled by the central management platform.

Sensors

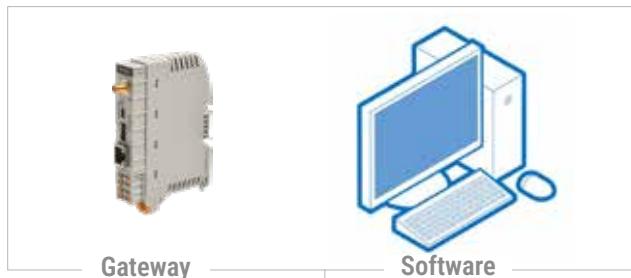


The sensors are remote control nodes with integrated functions for motion and brightness detection. The camera detects traffic and weather conditions. The sensors communicate with the central management platform.

IMPERIUM Smart City - Tunnels

IMPERIUM Smart City - Tunnels is a simultaneous Dual Band (2.4 GHz - 868 MHz) radio wave lighting management system designed for tunnels and road tunnels. This system can be customized on request.

Central management platform



They communicate with the remote control nodes and allow the responsible bodies to manage the plant remotely.

Remote control nodes



They are installed internally or externally to the luminaire. They turn on, turn off and dim the lighting fixture. They communicate with the remote control nodes of the same system. They receive commands from the gateway.

Luminaries



The Palazzoli lighting fixtures can be equipped with remote control nodes and controlled by the central management platform.

Probe



The luminance probe self-centers the tunnel entrance and makes accurate real-time measurements of luminance.





Industry

Industrial plants, storage warehouses, sports and shopping centers, food sectors make up the fields application for which Palazzoli has studied products with high lighting performance, great ease of installation and total absence of maintenance. Thanks to the many mounting accessories available, luminaires can be installed in any environment, both indoors and outdoors.



Steel plants

Sports facilities
and large areas

Food industries



TIGUA page 97



XTIGUA page 103



TIGUA page 97



XTIGUA page 103



RINO page 133



META₁₅₀ page 140



RINO page 131



META₁₅₀ page 140



DARWIN page 115



TIGUA page 147



TIGUA page 147



XTIGUA page 153



Chemical agents

High temperatures

Low temperatures



TIGUA page 97



XTIGUA page 103



TIGUA page 97



XTIGUA page 103



TIGUA page 97



XTIGUA page 103



DARWIN page 115



FLIGHT page 123



DARWIN page 117



RINO page 136



FLIGHT page 123



YUMA page 127



YUMA page 127



RINO page 131



META₁₅₀ page 140



TIGUA page 147



META₁₅₀ page 140



RINO E27 page 167



META₁₅₀ page 140



XTIGUA page 153



XTIGUA page 153



RINO E27 page 167





Floodlights

Steel plants - Sports facilities
and large areas - Food industries
Chemical agents - High temperatures
Low temperatures



TIGUA

from 6480 lm to 24252 lm
Page 96



XTIGUA

from 23300 lm to 126412 lm
Page 102



DARWIN

from 60000 lm to 194400 lm
Page 114



FLIGHT

from 5250 lm to 10370 lm
Page 122



META

from 9193 lm to 18387 lm
Page 124



YUMA

from 9620 lm to 25480 lm
Page 126

TIGUA floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

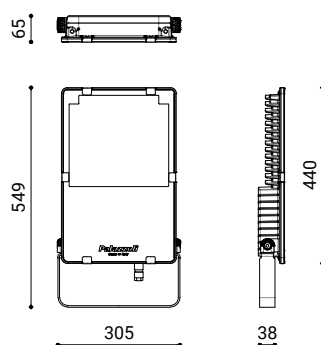
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low-content of copper (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with -135° ... +135° adjustment
Ambient operating temperature	-40 °C - +40 °C -40 °C - +60 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 145 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 60,000h Tq=+60° C (HT version) L90 B10 @ 110,000h Tq=+40° C L90 B10 @ 230,000h Tq=+25° C
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	8 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm

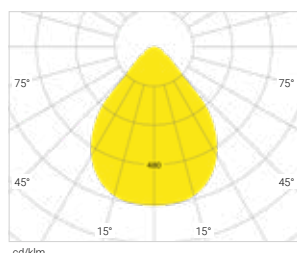
Special versions can be made with a DALI power supply, with radio wave remote control and with colour temperatures from 2100 K (amber) to 6500 K.

TIGUA floodlight

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

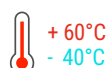
Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

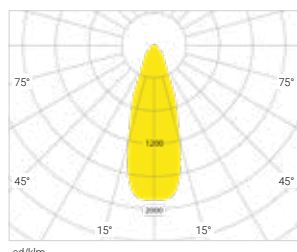


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837011
24	95	15390	12825	Glass	135	On-off	6,50	837012
36	130	20280	16900	Glass	130	On-off	6,50	837013
24	140	23688	19740	Glass	141	On-off	7,00	837024
24	188	30004	24252	Glass	129	On-off	7,00	837025

High temperature



12	48	7776	6480	Glass	135	On-off	6,40	837011HT
24	95	15390	12825	Glass	135	On-off	6,50	837012HT
24	115	20010	16675	Glass	145	On-off	7,00	837025HT
24	126	21470	17892	Glass	142	On-off	7,00	837026HT



Symmetrical 36° narrow beam optics

Included: wall-mounting bracket.

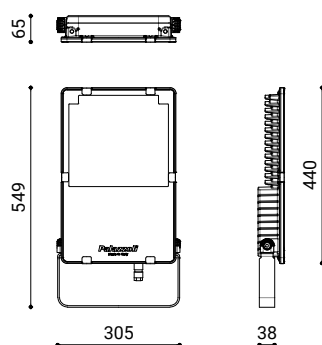
Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



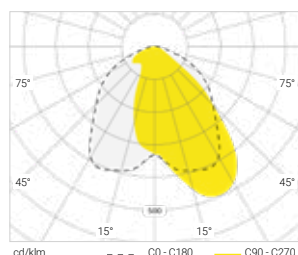
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837111
24	95	15390	12825	Glass	135	On-off	6,50	837112
36	130	20280	16900	Glass	130	On-off	6,50	837113
24	140	23688	19740	Glass	141	On-off	7,00	837124
24	188	30004	24252	Glass	129	On-off	7,00	837125

TIGUA floodlight

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

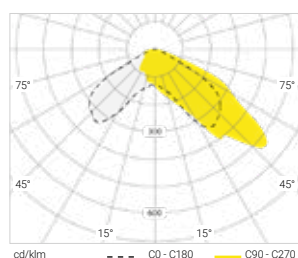


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837211
24	95	15390	12825	Glass	135	On-off	6,20	837212
36	130	20280	16900	Glass	130	On-off	6,20	837213
24	140	23688	19740	Glass	141	On-off	7,00	837224
24	188	30004	24252	Glass	129	On-off	7,10	837225

High temperature



12	48	7776	6480	Glass	135	On-off	6,40	837211HT
24	95	15390	12825	Glass	135	On-off	6,50	837212HT
24	115	20010	16675	Glass	145	On-off	7,10	837225HT
24	126	21470	17892	Glass	142	On-off	7,00	837226HT



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

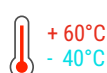
Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



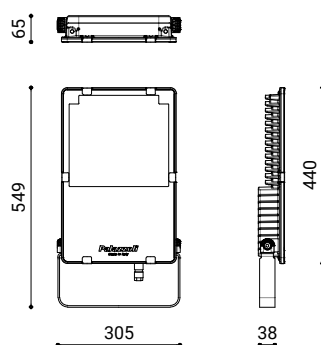
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837711
24	95	15390	12825	Glass	135	On-off	6,50	837712
36	130	20280	16900	Glass	130	On-off	6,50	837713
24	140	23688	19740	Glass	141	On-off	6,90	837724
24	188	30004	24252	Glass	129	On-off	7,10	837725

High temperature



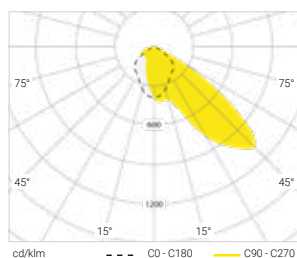
12	48	7776	6480	Glass	135	On-off	6,40	837711HT
24	95	15390	12825	Glass	135	On-off	6,50	837712HT
24	115	20010	16675	Glass	145	On-off	7,10	837725HT
24	126	21470	17892	Glass	142	On-off	7,00	837726HT

TIGUA floodlight

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 43° narrow beam optics

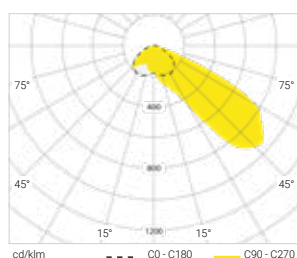
Included: wall-mounting bracket.

Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837311
24	95	15390	12825	Glass	135	On-off	7,80	837312
36	130	20280	16900	Glass	130	On-off	6,50	837313
24	140	23688	19740	Glass	141	On-off	6,90	837324
24	188	30004	24252	Glass	129	On-off	7,10	837325



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



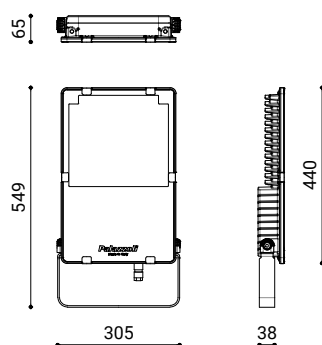
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837511
24	95	15390	12825	Glass	135	On-off	6,50	837512
36	130	20280	16900	Glass	130	On-off	6,50	837513
24	140	23688	19740	Glass	141	On-off	7,00	837524
24	188	30004	24252	Glass	129	On-off	7,00	837525

High temperature



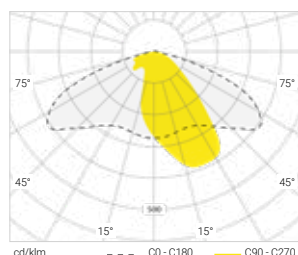
12	48	7776	6480	Glass	135	On-off	6,40	837511HT
24	95	15390	12825	Glass	135	On-off	6,50	837512HT
24	115	20010	16675	Glass	145	On-off	7,00	837525HT
24	126	21470	17892	Glass	142	On-off	7,00	837526HT

TIGUA floodlight

Flicker
<1%Class
I

IP66

IK08



Roadway 65° wide beam optics

Included: wall-mounting bracket.

Power supply with 3P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

On request, the version
with integrated head pole
attachment is available

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	48	7776	6480	Glass	135	On-off	6,40	837411
24	95	15390	12825	Glass	135	On-off	6,50	837412
36	130	20280	16900	Glass	130	On-off	7,20	837413
24	140	23688	19740	Glass	141	On-off	7,00	837424
24	188	30004	24252	Glass	129	On-off	7,00	837425

High temperature



12	48	7776	6480	Glass	135	On-off	6,40	837411HT
24	95	15390	12825	Glass	135	On-off	6,50	837412HT
24	115	20010	16675	Glass	145	On-off	7,00	837425HT
24	126	21470	17892	Glass	142	On-off	7,00	837426HT

Accessories TIGUA floodlight



TIGUA floodlight equipped with **pole-top attachment**

Protective grid



Material:
Galvanized steel

Code: **811911**

Universal attachment for head pole installation
for 60 mm and 76 mm nominal pole diameter



Material:
Painted
galvanized steel

Code: **811908**

Support for arm installation 750 mm projection



Material:
Painted
galvanized steel

Code: **811914**

Kit consisting of collar and counter-plate
for 60 mm and 76 mm nominal pole diameter



Material:
Painted
galvanized steel

Code: **811912**

3 way through-wiring connector
16A 250/400V IP66/IP68



Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power connector consists of 1 input and 2 outputs
and is suitable for making an external input-output connection
to the luminaire. Not suitable for ATEX floodlights.

XTIGUA floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

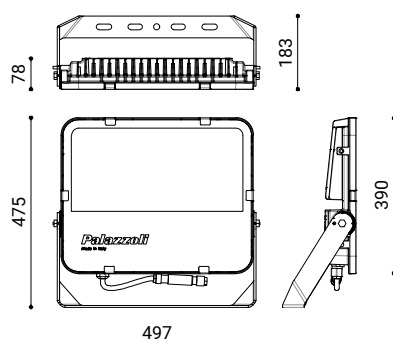
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with -110° ... +110° adjustment
Ambient operating temperature	-40 °C - +35 °C -40 °C - +55 °C (HT version) -40 °C - +70 °C (VHT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 161 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 50,000h Tq=+70° C (VHT version) L90 B10 @ 110,000h Tq=+40° C L90 B10 @ 230,000h Tq=+25° C
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	10 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm

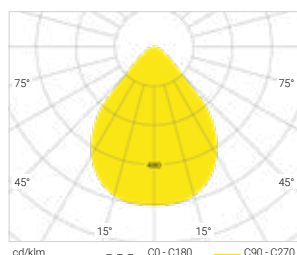
Special versions can be made with radio-wave remote control and with colour temperatures from 2100 K (amber) to 6500 K.

XTIGUA floodlight | M size

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	39931	33276	Glass	141	DALI	9,50	838036DA
48	309	52283	43569	Glass	141	DALI	9,50	838048DA

High temperature

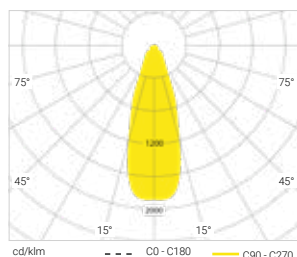


36	161	27900	23300	Glass	144	DALI	9,50	838036HT
48	192	37300	31100	Glass	161	DALI	9,50	838048HT

Very high temperature



36	161	27900	23300	Glass	144	DALI	9,50	838036VHT
48	192	37300	31100	Glass	161	DALI	9,50	838048VHT



Symmetrical 36° narrow beam optics

Included: wall-mounting bracket.

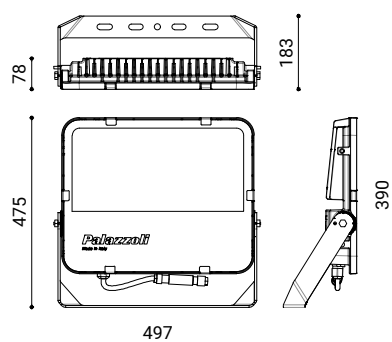
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	39931	33276	Glass	141	DALI	9,50	838136DA
48	309	52283	43569	Glass	141	DALI	9,50	838148DA

XTIGUA floodlight | M size

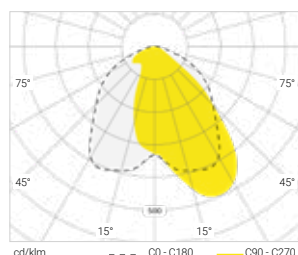


Flicker
<1%

Class
I

IP66

IK08



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



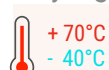
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	40498	33748	Glass	143	DALI	9,50	838236DA
48	309	53024	44187	Glass	143	DALI	9,50	838248DA

High temperature

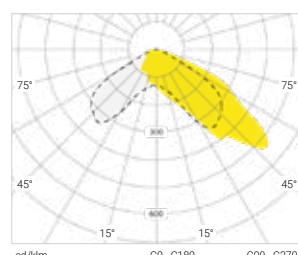


36	161	27900	23300	Glass	144	DALI	9,50	838236HT
48	192	37300	31100	Glass	161	DALI	9,50	838248HT

Very high temperature



36	161	27900	23300	Glass	144	DALI	9,50	838236VHT
48	192	37300	31100	Glass	161	DALI	9,50	838248VHT



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

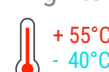
The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	39931	33276	Glass	141	DALI	9,50	838736DA
48	309	52283	43569	Glass	141	DALI	9,50	838748DA

High temperature



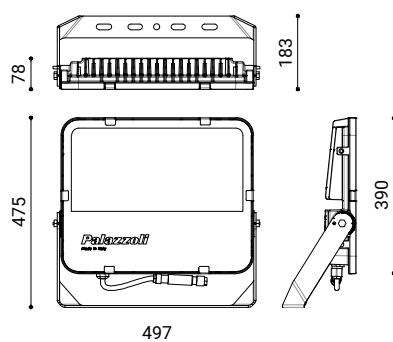
36	161	27900	23300	Glass	144	DALI	9,50	838736HT
48	192	37300	31100	Glass	161	DALI	9,50	838748HT

Very high temperature



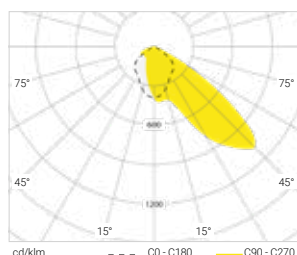
36	161	27900	23300	Glass	144	DALI	9,50	838736VHT
48	192	37300	31100	Glass	161	DALI	9,50	838748VHT

XTIGUA floodlight | M size

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 43° narrow beam optics

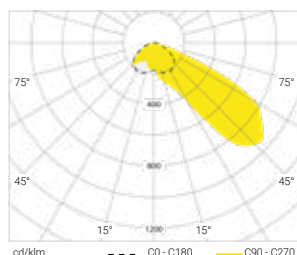
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	39931	33276	Glass	141	DALI	9,50	838336DA
48	309	52283	43569	Glass	141	DALI	9,50	838348DA



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	236	39931	33276	Glass	141	DALI	9,50	838536DA
48	309	52283	43569	Glass	141	DALI	9,50	838548DA

High temperature



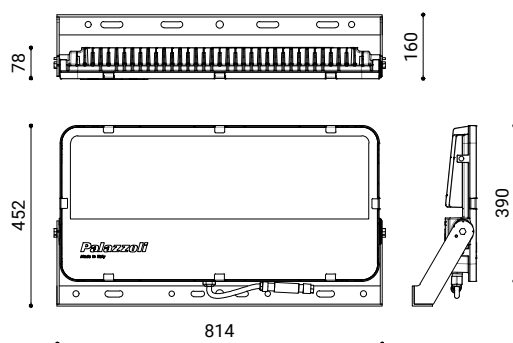
36	161	27900	23300	Glass	144	DALI	9,50	838536HT
48	192	37300	31100	Glass	161	DALI	9,50	838548HT

Very high temperature



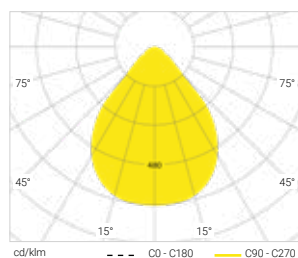
36	161	27900	23300	Glass	144	DALI	9,50	838536VHT
48	192	37300	31100	Glass	161	DALI	9,50	838548VHT

XTIGUA floodlight | L size

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.

 + 35°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	62707	52256	Glass	142	DALI	13,40	838060DA
72	442	75317	62764	Glass	142	DALI	13,40	838072DA

High temperature

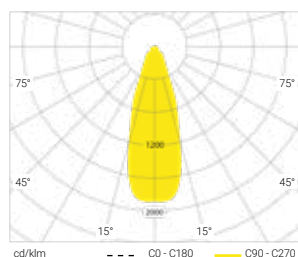
 + 55°C
- 40°C

60	241	46680	38900	Glass	161	DALI	13,40	838060HT
72	290	55900	46600	Glass	160	DALI	13,40	838072HT

Very high temperature

 + 70°C
- 40°C

60	241	46680	38900	Glass	161	DALI	13,40	838060VHT
72	290	55900	46600	Glass	160	DALI	13,40	838072VHT



Symmetrical 36° narrow beam optics

Included: wall-mounting bracket.

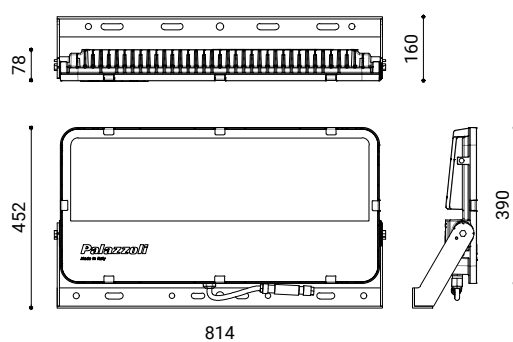
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

 + 35°C
- 40°C

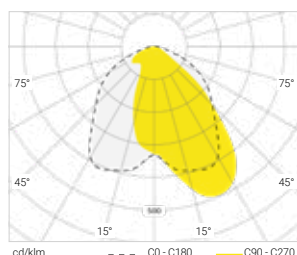
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	62707	52256	Glass	142	DALI	13,40	838160DA
72	442	75317	62764	Glass	142	DALI	13,40	838172DA

XTIGUA floodlight | L size

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	63149	52624	Glass	143	DALI	13,40	838260DA
72	442	75847	63206	Glass	143	DALI	13,40	838272DA

High temperature

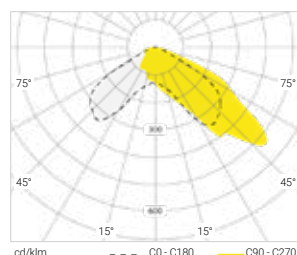


60	241	46680	38900	Glass	161	DALI	13,40	838260HT
72	290	55900	46600	Glass	160	DALI	13,40	838272HT

Very high temperature



60	241	46680	38900	Glass	161	DALI	13,40	838260VHT
72	290	55900	46600	Glass	160	DALI	13,40	838272VHT



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

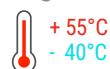
The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	62707	52256	Glass	142	DALI	13,40	838760DA
72	442	75317	62764	Glass	142	DALI	13,40	838772DA

High temperature



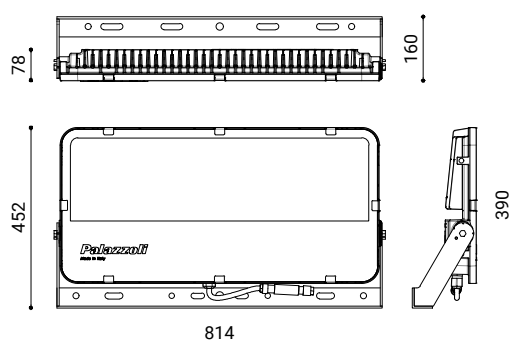
60	241	46680	38900	Glass	161	DALI	13,40	838760HT
72	290	55900	46600	Glass	160	DALI	13,40	838772HT

Very high temperature



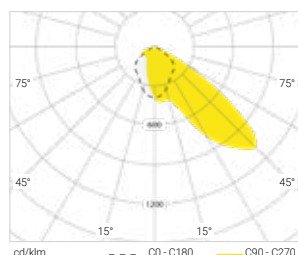
60	241	46680	38900	Glass	161	DALI	13,40	838760VHT
72	290	55900	46600	Glass	160	DALI	13,40	838772VHT

XTIGUA floodlight | L size

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 43° narrow beam optics

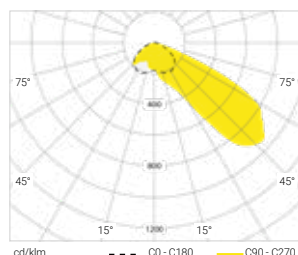
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	62707	52256	Glass	142	DALI	13,40	838360DA
72	442	75317	62764	Glass	142	DALI	13,40	838372DA



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the floodlight and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
60	368	62707	52256	Glass	142	DALI	13,40	838560DA
72	442	75317	62764	Glass	142	DALI	13,40	838572DA

High temperature



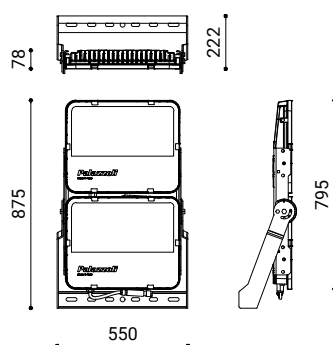
60	241	46680	38900	Glass	161	DALI	13,40	838560HT
72	290	55900	46600	Glass	160	DALI	13,40	838572HT

Very high temperature



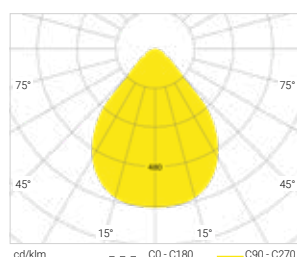
60	241	46680	38900	Glass	161	DALI	13,40	838560VHT
72	290	55900	46600	Glass	160	DALI	13,40	838572VHT

XTIGUA floodlight | XL size

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

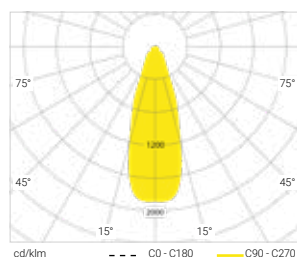
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	104566	87138	Glass	141	DALI	23,20	838096DA



Symmetrical 36° narrow beam optics

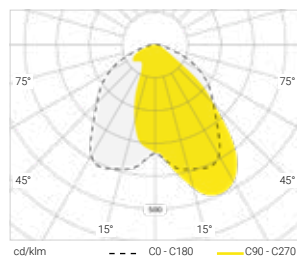
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	104566	87138	Glass	141	DALI	23,20	838196DA



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

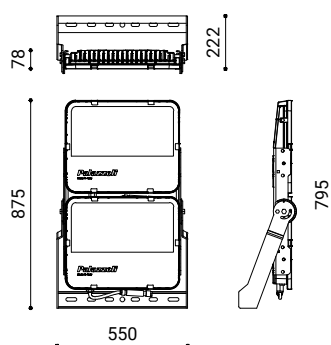
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



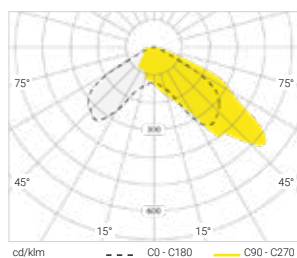
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	106049	88374	Glass	143	DALI	23,20	838296DA

XTIGUA floodlight | XL size

Flicker
<1%Class
I

IP66

IK08

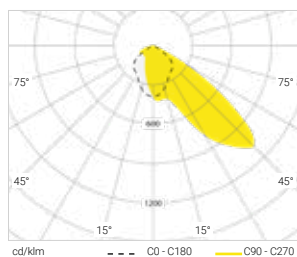


Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	104566	87138	Glass	141	DALI	23,20	838796DA

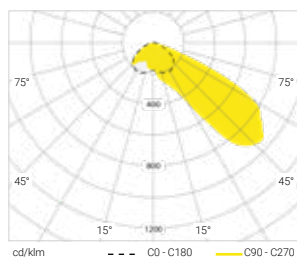


Asymmetrical 43° narrow beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	104566	87138	Glass	141	DALI	23,20	838396DA



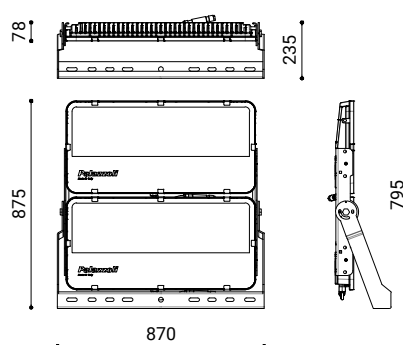
Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



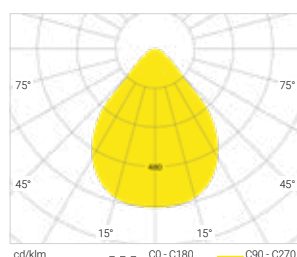
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	618	104566	87138	Glass	141	DALI	23,20	838596DA

XTIGUA floodlight | XXL size

Flicker
<1%Class
I

IP66

IK08

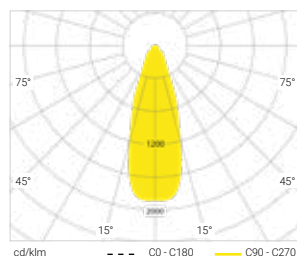


Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	125414	104512	Glass	142	DALI	35,00	838012DA
144	884	150634	125528	Glass	142	DALI	35,00	838014DA

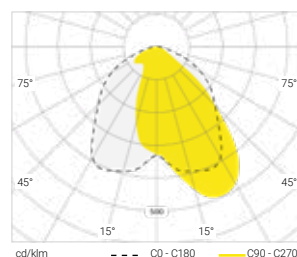


Symmetrical 36° narrow beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	125414	104512	Glass	142	DALI	35,00	838112DA
144	884	150634	125528	Glass	142	DALI	35,00	838114DA



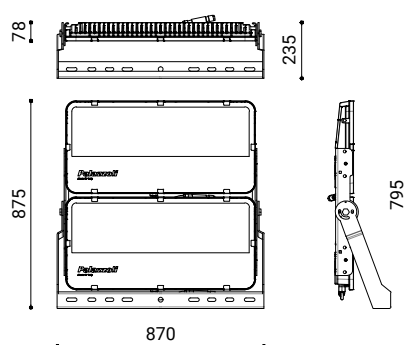
Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.
Power supply with 5Px1.5mm² quick-fit connector and 1.5 mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	126298	105248	Glass	143	DALI	35,00	838212DA
144	884	151694	126412	Glass	143	DALI	35,00	838214DA

XTIGUA floodlight | XXL size

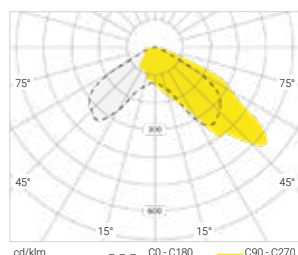


Flicker
<1%

Class
I

IP66

IK08



Asymmetrical 50° extra wide beam optics

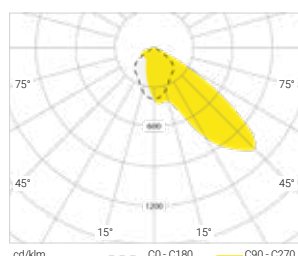
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	125414	125414	Glass	142	DALI	35,00	838712DA
144	884	150634	125528	Glass	142	DALI	35,00	838714DA



Asymmetrical 43° narrow beam optics

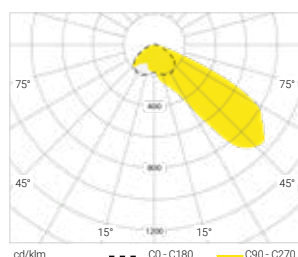
Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	125414	104512	Glass	142	DALI	35,00	838312DA
144	884	150634	125528	Glass	142	DALI	35,00	838314DA



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

Power supply with 5Px1.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



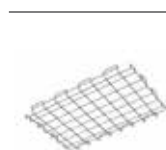
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
120	736	125414	104512	Glass	142	DALI	35,00	838512DA
144	884	150634	125528	Glass	142	DALI	35,00	838514DA

Accessories XTIGUA floodlight



XTIGUA floodlight with **crossbeam for pole-top installation**

Protective grid
for floodlights - M size, XL

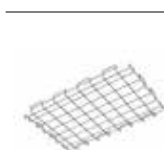


Material:
Galvanized steel

Code: **818992**

Note: for XL and XXL sizes use 2 grids.

Protective grid
for floodlights - L size, XXL



Material:
Galvanized steel

Code: **818993**

Note: for XL and XXL sizes use 2 grids.

Crossbeam for head pole installation for 1 or 2
floodlights



Material:
Painted
galvanized steel

Code: **818990**

Notes: crossbeam suitable for mounting up to 2 floodlights of M, L and XL size.
For XXL size the crossbeam code is 818991.
The crossbeam can be installed on poles from $\varnothing$ 60 to $\varnothing$ 76 mm.

Crossbeam for head pole installation for 2 or 4
floodlights



Material:
Painted
galvanized steel

Code: **818991**

Notes: suitable for mounting up to 2 floodlights of L, XXL size or no. 4 floodlights of M, XL size.
The crossbeam can be installed on poles from $\varnothing$ 60 to $\varnothing$ 76 mm.

3 way through-wiring connector
16A 250/400V IP66/IP68



Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power connector consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire. Not suitable for ATEX floodlights.

DARWIN floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

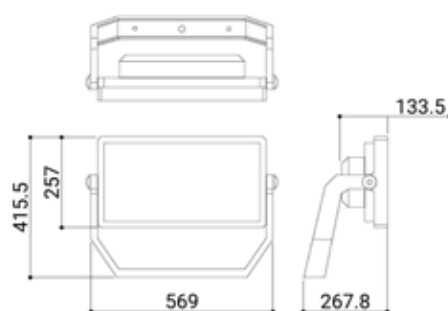
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	"U" bracket with adjustment
Ambient operating temperature	-40 °C - +50 °C (+70 °C HT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 162 lm/W
Colour temperature	4.000 K (on request 5.700 K)
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual Flicker	< 1%
Luminous flux maintenance	L90 B10 @ 50,000h Tq=+70° C (HT version) L90 B10 @ 110,000h Tq=+50 °C L90 B10 @ 210,000h Tq=+25 °C
Insulation class	I
Supply voltage	200-480V 0/50/60 Hz
Surge protection	10 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Power type	Cable H05RN-F 5x1 mm ² length 1 m

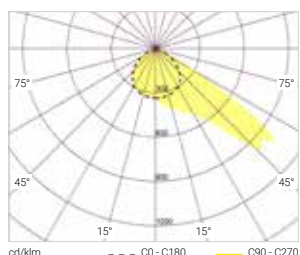
Special versions can be made with radio-wave remote control and with colour temperatures of 5700 K.

DARWIN floodlight | 1 module

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 50° narrow beam optics

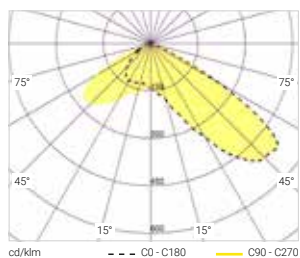
Included: wall-mounting bracket.

Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
216	400	75120	62600	Glass	157	DALI	12,00	835114DA



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

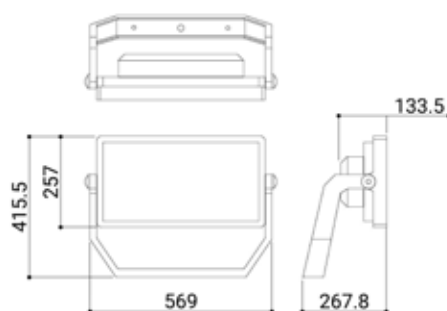
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



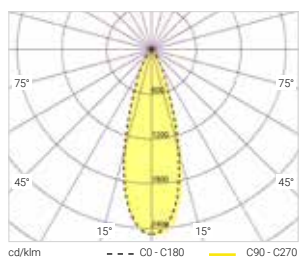
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
216	400	72000	60000	Glass	150	DALI	12,00	835124DA

DARWIN floodlight | 1 module

Flicker
<1%Class
I

IP66

IK08

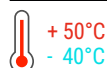


Symmetrical 30° narrow beam optics

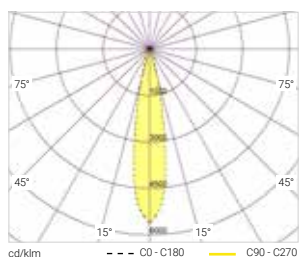
Included: wall-mounting bracket.

Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
216	400	77760	64800	Glass	162	DALI	12,00	835134DA



Symmetrical 18° narrow beam optics

Included: wall-mounting bracket.

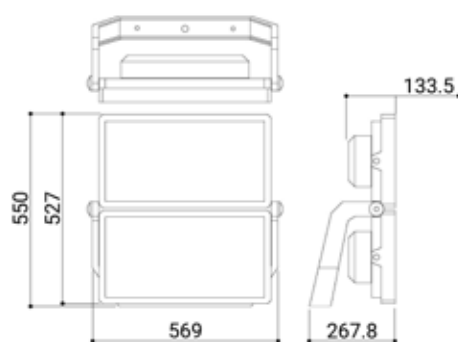
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



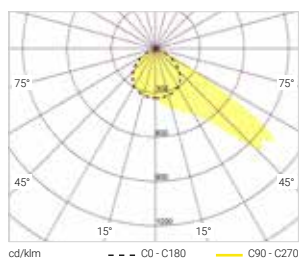
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
216	400	76680	63900	Glass	160	DALI	12,00	835144DA

DARWIN floodlight | 2 modules

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 50° narrow beam optics

Included: wall-mounting bracket.

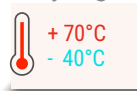
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.

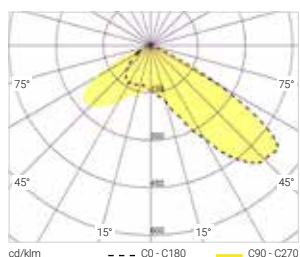


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
432	800	150240	125200	Glass	157	DALI	22,00	835214DA

Very high temperature



432	400	75120	62600	Glass	157	DALI	22,00	835214HT
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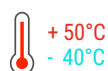


Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

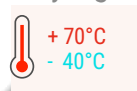
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



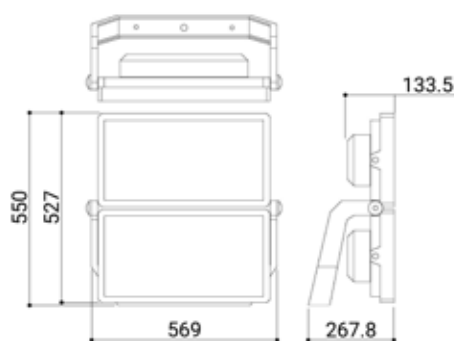
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
432	800	144000	120000	Glass	150	DALI	22,00	835224DA

Very high temperature



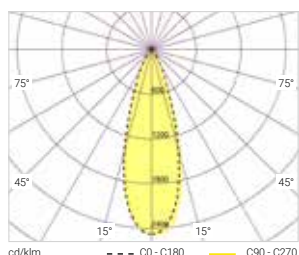
432	400	72000	60000	Glass	150	DALI	22,00	835224HT
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DARWIN floodlight | 2 modules

Flicker
<1%Class
I

IP66

IK08

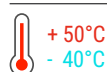


Symmetrical 30° narrow beam optics

Included: wall-mounting bracket.

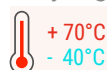
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.

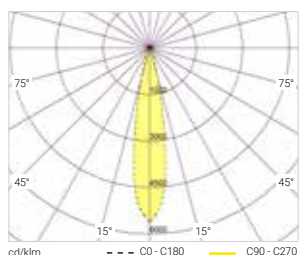


LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
432	800	155520	129600	Glass	162	DALI	22,00	835234DA

Very high temperature



432	400	77760	64800	Glass	162	DALI	22,00	835234HT
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Symmetrical 18° narrow beam optics

Included: wall-mounting bracket.

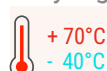
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



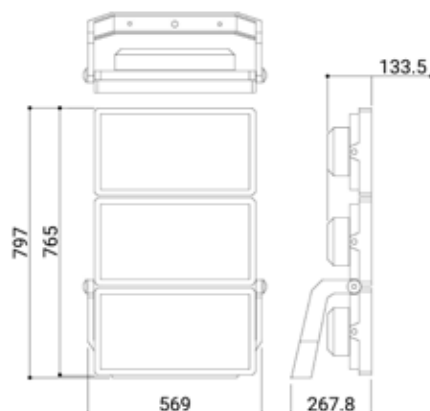
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
432	800	153360	127800	Glass	160	DALI	22,00	835244DA

Very high temperature

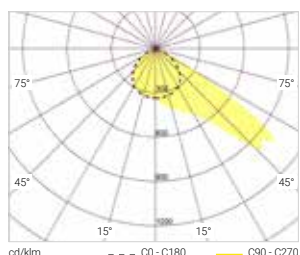


432	400	76680	63900	Glass	160	DALI	22,00	835244HT
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DARWIN floodlight | 3 modules



Flicker <1%	Class I
IP66	IK08

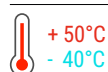


Asymmetrical 50° narrow beam optics

Included: wall-mounting bracket.

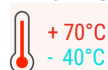
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.

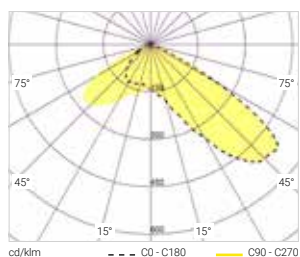


LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
648	1200	225360	187800	Glass	157	DALI	32,00	835314DA

Very high temperature



648	600	112680	93900	Glass	157	DALI	32,00	835314HT
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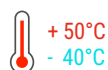


Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

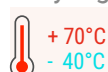
Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



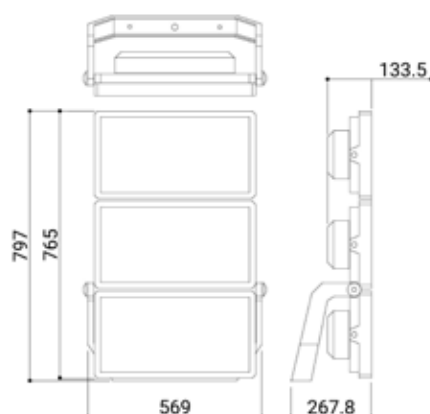
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
648	1200	216000	180000	Glass	150	DALI	32,00	835324DA

Very high temperature



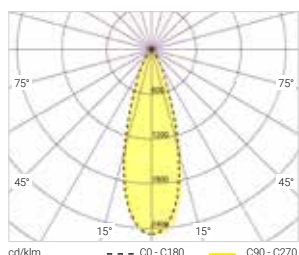
648	600	108000	90000	Glass	150	DALI	32,00	835324HT
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DARWIN floodlight | 3 modules

Flicker
<1%Class
I

IP66

IK08



Symmetrical 30° narrow beam optics

Included: wall-mounting bracket.

Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.

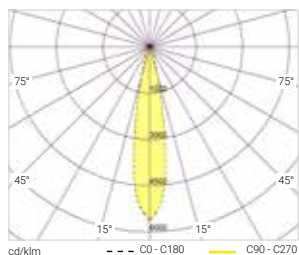
+ 50°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
648	1200	233280	194400	Glass	162	DALI	32,00	835334DA

Very high temperature

+ 70°C
- 40°C

648	600	116640	97200	Glass	162	DALI	32,00	835334HT
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Symmetrical 18° narrow beam optics

Included: wall-mounting bracket.

Power supply with 1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.

+ 50°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
648	1200	230040	191700	Glass	160	DALI	32,00	835344DA

Very high temperature

+ 70°C
- 40°C

648	600	115020	95850	Glass	160	DALI	32,00	835344HT
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Accessories DARWIN floodlight



DARWIN floodlight with **crossbeam for pole-top installation**

Crossbeam for head pole installation for 1 or 2 floodlights



Material:
Painted galvanized
steel

Code: **818990**

Notes: the crossbeam can be installed on poles from $\varnothing$ 60 to $\varnothing$ 76 mm.

Crossbeam for head pole installation for 2 or 4 floodlights



Material:
Painted galvanized
steel

Code: **818991**

Notes: the crossbeam can be installed on poles from $\varnothing$ 60 to $\varnothing$ 76 mm.

FLIGHT floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

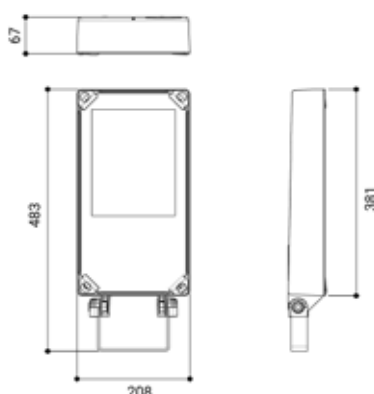
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content EN 44300
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK09 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	"U" bracket with adjustment
Ambient operating temperature	-40 °C - +45 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 180 lm/W
Colour temperature	4.000 K (on request 3.000 K)
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L80 B10 @ 150,000h Tq=+25 °C
Insulation class	II
Supply voltage	220-240V 50/60 Hz
Surge protection	4 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	2x1 mm ² H05RN-F cable length 1 m with 2Px2,5 mm ² connector
Max. conductor cross-section	2,5 mm ²
Inlet cable diameter	9 ÷ 12 mm

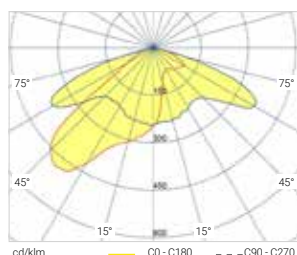
Special versions can be made with a DALI power supply, with radio wave remote control and with colour temperatures from 2100 K (amber) to 6500 K.

FLIGHT floodlight | S size

Flicker
<1%Class
II

IP66

IK09



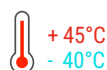
Roadway 65° wide beam optics

Included: wall-mounting bracket.

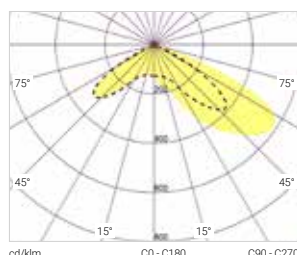
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 1 m.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	35	6300	5250	Glass	150	On-off	5,0	805128
20	46	8060	6716	Glass	146	On-off	5,0	805168
20	61	10395	8662	Glass	142	On-off	5,0	805198



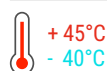
Large areas 60° extra wide beam optics

Included: wall-mounting bracket.

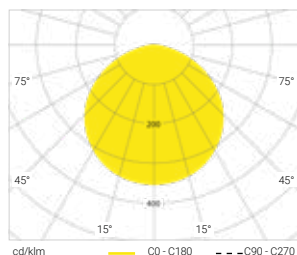
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 1 m.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	35	6300	5250	Glass	150	On-off	5,0	805127
20	46	8060	6716	Glass	146	On-off	5,0	805167
20	61	10395	8662	Glass	142	On-off	5,0	805197



Symmetrical 120° extra wide beam optics

Included: wall-mounting bracket.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 1 m.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	35	7560	6300	Glass	180	On-off	5,0	805129
20	46	9660	8050	Glass	175	On-off	5,0	805169
20	61	12444	10370	Glass	170	On-off	5,0	805199

META floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

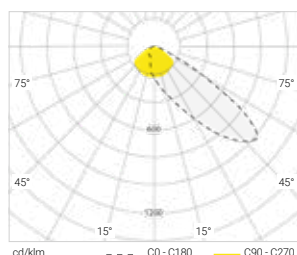
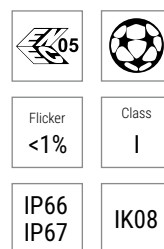
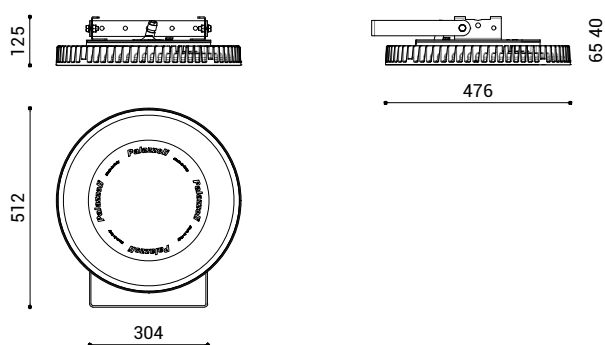
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy EN 46100
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66/IP67 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C4-M / C3-H (ISO 9223)
Mounting system	"U" bracket with adjustment
Ambient operating temperature	-40 °C - +40 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 93 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L80 B20 @ 110,000h Tq=+40 °C
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	10 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm

Special versions can be made with operating temperatures up to +55 °C and colour temperatures from 3000 K to 6500 K.

META floodlight



Asymmetrical 50° narrow beam optics

Included: adjustable bracket for wall mounting or to load-bearing structures (poles, lighting towers).
Power supply with 5P quick connector.
Suitable for lighting outdoor areas and sports facilities.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
9	99	13230	9193	Glass	93	Dimmable 1-10V	10,56	810296
12	133	17640	12258	Glass	92	Dimmable 1-10V	10,67	810226
15	168	22050	15322	Glass	91	Dimmable 1-10V	10,98	810256
18	199	26460	18387	Glass	92	Dimmable 1-10V	11,15	810286

Accessories META floodlight

Protective grid



Material:
Galvanized steel

Code: **810993**

Universal attachment for head pole installation for Ø 60 mm and Ø 76 mm nominal pole



Material:
Painted galvanized steel

Code: **811908**

Kit consisting of collar and plate for Ø 60 mm to Ø 80 mm pole mounting



Material:
Painted galvanized steel

Code: **811912**

3 way through-wiring connector
16A 250/400V IP66/IP68

Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power distributor consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire.

YUMA floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	AISI 316L stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-H (ISO 9223)
Mounting system	"U" bracket with adjustment
Ambient operating temperature	-40 °C - +50 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	130 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 110,000h Tq=+50 °C L90 B10 @ 230,000h Tq=+25 °C
Insulation class	I
Supply voltage	220-240V 50/60 Hz
Surge protection	10 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Inlet cable diameter	7 ÷ 13 mm

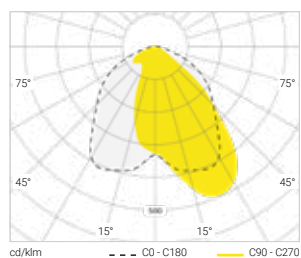
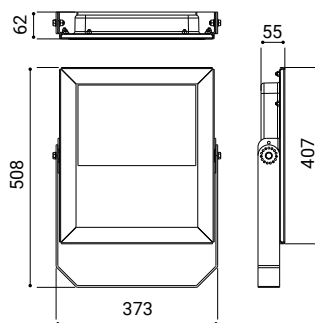
Special versions can be made with symmetric optics, with DALI power supply, with radio wave remote control and with colour temperatures from 2100 K (amber) to 6500 K.

YUMA floodlight | M size

Flicker
<1%Class
I

IP66

IK08

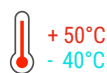


Asymmetrical 23° extra wide beam optics

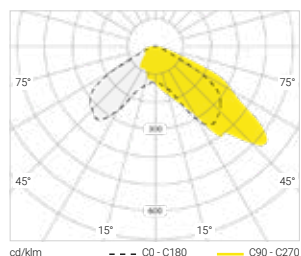
Included: wall-mounting bracket.

Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
24	74	11544	9620	Glass	130	+50	On-off	9,00	807232
24	98	15288	12740	Glass	130	+50	On-off	9,00	807242



Asymmetrical 50° extra wide beam optics

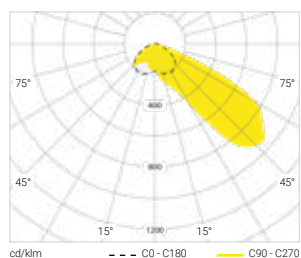
Included: wall-mounting bracket.

Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
24	74	11544	9620	Glass	130	+50	On-off	9,00	807237
24	98	15288	12740	Glass	130	+50	On-off	9,00	807247



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

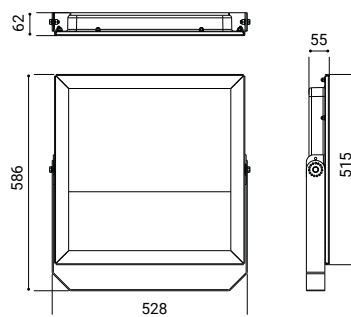
Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



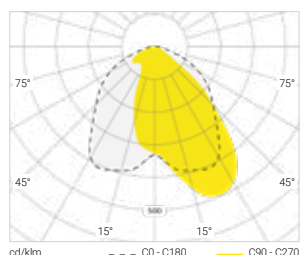
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
24	74	11544	9620	Glass	130	+50	On-off	9,00	807235
24	98	15288	12740	Glass	130	+50	On-off	9,00	807245

YUMA floodlight | L size

Flicker
<1%Class
I

IP66

IK08



Asymmetrical 23° extra wide beam optics

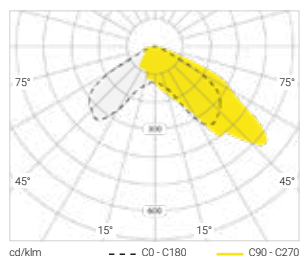
Included: wall-mounting bracket.

Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	On-off	9,00	807352
48	196	30576	25480	Glass	130	+40	On-off	9,00	807362



Asymmetrical 50° extra wide beam optics

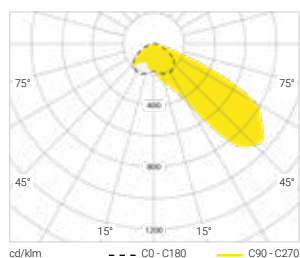
Included: wall-mounting bracket.

Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	On-off	9,00	807357
48	196	30576	25480	Glass	130	+40	On-off	9,00	807367



Asymmetrical 55° narrow beam optics

Included: wall-mounting bracket.

Power supply with 3Px2.5 mm² quick-fit connector and 1.5 mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Temp. max. ambiente (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	On-off	9,00	807355
48	196	30576	25480	Glass	130	+40	On-off	9,00	807365



Ceiling lights and pendants

Steel plants - Sports facilities
and large areas - Food industries
Chemical agents - High temperatures
Low temperatures



RINO

from 3562 lm to 15020 lm
Page 130



META150

from 10600 lm to 30883 lm
Page 139



META

from 8140 lm to 21659 lm
Page 142



TIGUA

from 8593 lm to 22100 lm
Page 146



XTIGUA

from 21580 lm to 48800 lm
Page 152



YUMA

from 19240 lm to 25480 lm
Page 156



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

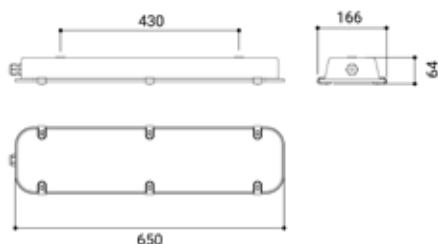
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	AISI 304 stainless steel Painted galvanized steel
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	RAL 9016 (painted galvanized steel version)
Diffuser material	Tempered glass and UV-stabilized polycarbonate
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK09 as per IEC/EN 62262
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223) C5-M / C4-H painted galvanized steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-30 °C - +45 °C 0 °C - +35 °C (emergency versions) -30 °C - +65 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C -30 °C - +50 °C emergency versions)
Actual efficacy of the device	Up to 142 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 3%
Luminous flux maintenance	L80 B10 @ 50,000h Tq=+25 °C Tq=+65 °C (HT version)
Emergency battery life	1h - 3h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	2 kV (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	1,5 mm ²
Entry cable diameter	9 ÷ 12 mm

Special versions can be made by combining materials, optics, power supplies and operating temperatures. Versions with radio wave remote control, through wiring can also be produced, in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K.

RINO | 650 mm

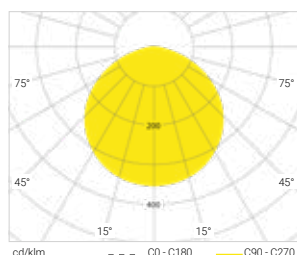
Class
I

IP66

IK09



1 entry on one end

Technopolymer
M20 connector

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply with quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
Stainless steel	48	26	4100	3692	Glass	142	On-off	3,00	822152
	72	40	6440	5640	Glass	141	On-off	3,00	822252



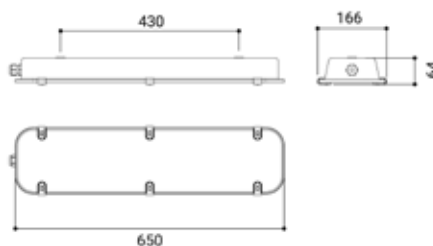
Painted galvanized steel	48	26	4100	3692	Glass	142	On-off	3,00	842152
	72	40	6440	5640	Glass	141	On-off	3,00	842252



Painted galvanized steel Emergency	48	26	4100	3692 (400 in EM)	Glass	142	On-off 1h Emergency	3,00	842150
	72	40	6440	5640 (400 in EM)	Glass	141	On-off 1h Emergency	3,00	842250



RINO | 650 mm

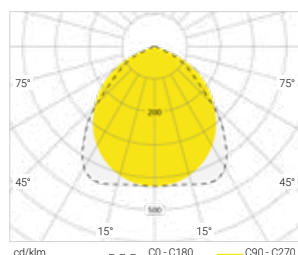
Class
I

IP66

IK09



1 entry on one end

Technopolymer
M20 connector

Symmetrical 88° comfort extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply with quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	26	4100	3562	Glass	137	On-off	3,00	821152
72	40	6440	5400	Glass	135	On-off	3,00	821252

Stainless steel

Stainless steel
Emergency

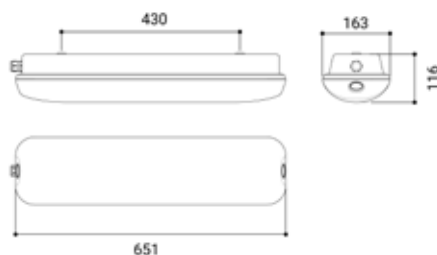
48	26	4100	3562 (400 in EM)	Glass	137	On-off 1h Emergency	3,00	821150
72	40	6440	5400 (400 in EM)	Glass	135	On-off 1h Emergency	3,00	821250
48	26	4100	3562 (400 in EM)	Glass	137	On-off 3h Emergency	3,00	821153
72	40	6440	5400 (400 in EM)	Glass	135	On-off 3h Emergency	3,00	821253

Painted galvanized steel



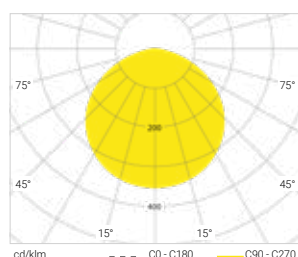
48	26	4100	3562	Glass	137	On-off	3,00	841152
72	40	6440	5400	Glass	135	On-off	3,00	841252

RINO | 650 mm

Class
I

IP66

IK09

QUICK
BLOCK

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply with quick connector. Disconnect to allow safe opening.
The polycarbonate diffuser according to HACCP regulations.
The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
84	26	4368	3640	Polycarbonate	140	On-off	3,00	826152
192	40	6720	5600	Polycarbonate	140	On-off	3,00	826252

Stainless steel

Stainless steel
Emergency

84	26	4368	3640 (400 in EM)	Polycarbonate	140	On-off 1h Emergency	3,00	826150
192	40	6720	5600 (400 in EM)	Polycarbonate	140	On-off 1h Emergency	3,00	826250
84	26	4368	3640 (400 in EM)	Polycarbonate	140	On-off 3h Emergency	3,00	826153
192	40	6720	5600 (400 in EM)	Polycarbonate	140	On-off 3h Emergency	3,00	826253

Painted galvanized steel

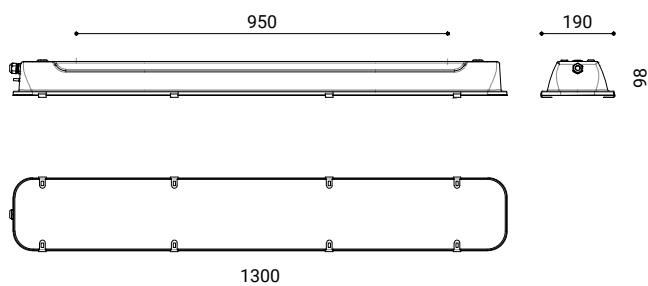


84	26	4368	3640	Polycarbonate	140	On-off	3,00	846152
192	40	6720	5600	Polycarbonate	140	On-off	3,00	846252

Painted galvanized steel
Emergency

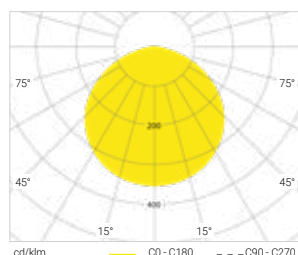
84	26	4368	3640 (400 in EM)	Polycarbonate	140	On-off 1h Emergency	3,00	846150
192	40	6720	5600 (400 in EM)	Polycarbonate	140	On-off 1h Emergency	3,00	846250
84	26	4368	3640 (400 in EM)	Polycarbonate	140	On-off 3h Emergency	3,00	846153
192	40	6720	5600 (400 in EM)	Polycarbonate	140	On-off 3h Emergency	3,00	846253

RINO | 1300 mm

Class
I

IP66

IK09

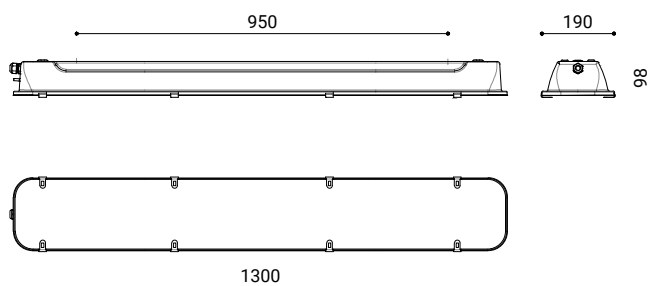
1 entry on one end
Technopolymer
M20 connector

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply with quick connector.
The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
Stainless steel 	96	52	8200	7384	Glass	142	On-off	6,23	822382
	144	63	11000	8946	Glass	142	On-off	6,20	822482
	144	75	12200	10575	Glass	141	On-off	6,20	822582
Stainless steel High efficiency 90,000 h 	384	83	16750	15020	Glass	181	On-off	6,20	822782
Painted galvanized steel 	96	52	8200	7384	Glass	142	On-off	6,33	842382
	144	63	11000	8946	Glass	142	On-off	6,30	842482
	144	75	12200	10575	Glass	141	On-off	6,30	842582
Painted galvanized steel Emergency 	96	52	8200	7384 (940 in EM)	Glass	142	On-off 1h Emergency	6,64	842380
Painted galvanized steel High efficiency 90,000 h 	384	83	16750	15020	Glass	181	On-off	6,30	842782

RINO | 1300 mm

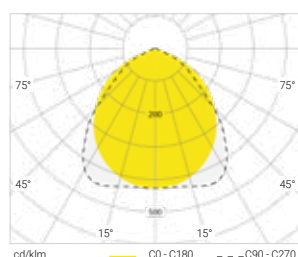
Class
I

IP66

IK09



1 entry on one end

Technopolymer
M20 connector

Symmetrical 88° comfort extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

Power supply with quick connector.

The polycarbonate diffuser according to HACCP regulations.

The stated flux and power values may be subject to a +/- 7% tolerance.

Stainless steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	7072	Glass	136	On-off	6,24	821382
144	63	11000	8631	Glass	137	On-off	6,35	821482
144	75	12200	9900	Glass	132	On-off	6,20	821582
96	52	8200	7072	Polycarbonate	136	On-off	4,12	826382
144	63	11000	8631	Polycarbonate	137	On-off	4,00	826482
144	75	12200	9900	Polycarbonate	132	On-off	4,00	826582
96	52	8200	7072	Glass	136	DALI	6,20	821382DA
144	55	9547	7518	Glass	137	DALI	6,20	821482DA
144	71	11947	9428	Glass	132	DALI	6,20	821582DA
96	52	8200	7072	Polycarbonate	136	DALI	4,13	826382DA
144	55	9547	7518	Polycarbonate	137	DALI	4,00	826482DA
144	71	11947	9428	Polycarbonate	132	DALI	4,00	826582DA

Stainless steel
High efficiency 90,000 h

384	83	16750	13871	Glass	167	On-off	6,30	821782
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Painted galvanized steel

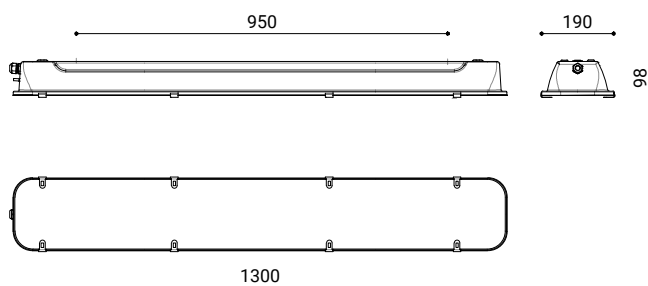


96	52	8200	7072	Glass	136	On-off	6,30	841382
144	63	11000	8631	Glass	137	On-off	6,30	841482
144	75	12200	9900	Glass	132	On-off	6,30	841582
96	52	8200	7072	Polycarbonate	136	On-off	4,10	846382
144	63	11000	8631	Polycarbonate	137	On-off	4,10	846482
144	75	12200	9900	Polycarbonate	132	On-off	2,41	846582

Painted galvanized steel
High efficiency 90,000 h

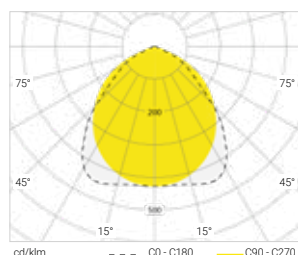
384	83	16750	13871	Glass	167	On-off	6,30	841782
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RINO | 1300 mm

Class
I

IP66

IK09

1 entry on one end
Technopolymer
M20 connector

Symmetrical 88° comfort extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

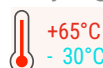
Power supply with quick connector.

The polycarbonate diffuser according to HACCP regulations.

The stated flux and power values may be subject to a +/- 7% tolerance.

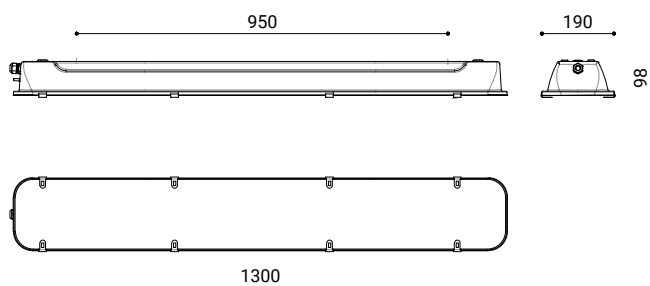
Stainless steel
Emergency

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	7072 (940 in EM)	Glass	136	On-off 1h Emergency	6,58	821380
144	63	11000	8631 (940 in EM)	Glass	137	On-off 1h Emergency	6,63	821480
144	75	12200	9900 (940 in EM)	Glass	132	On-off 1h Emergency	6,50	821580
96	52	8200	7072 (940 in EM)	Glass	136	On-off 3h Emergency	6,70	821383
144	63	11000	8631 (940 in EM)	Glass	137	On-off 3h Emergency	6,70	821483
144	75	12200	9900 (940 in EM)	Glass	132	On-off 3h Emergency	6,70	821583
96	52	8200	7072 (940 in EM)	Polycarbonate	136	On-off 1h Emergency	4,30	826380
144	63	11000	8631 (940 in EM)	Polycarbonate	137	On-off 1h Emergency	4,30	826480
144	75	12200	9900 (940 in EM)	Polycarbonate	132	On-off 1h Emergency	4,30	826580
96	52	8200	7072 (940 in EM)	Polycarbonate	136	On-off 3h Emergency	4,50	826383
144	63	11000	8631 (940 in EM)	Polycarbonate	137	On-off 3h Emergency	4,50	826483
144	75	12200	9900 (940 in EM)	Polycarbonate	132	On-off 3h Emergency	4,50	826583

Stainless steel
Very high temperature

96	33	5738	4700	Glass	142	On-off	4,12	821382HT
144	45	7919	6404	Glass	142	On-off	4,12	821482HT
144	54	8830	7600	Glass	141	On-off	4,12	821582HT
96	33	5738	4700	Polycarbonate	142	On-off	4,00	826382HT
144	45	7919	6404	Polycarbonate	142	On-off	4,14	826482HT
144	54	8830	7600	Polycarbonate	141	On-off	4,32	826582HT

RINO | 1300 mm

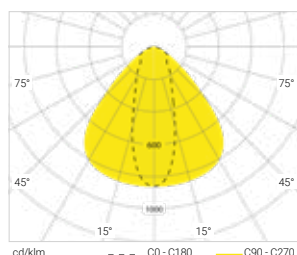
Class
I

IP66

IK09



1 entry on one end

Technopolymer
M20 connector

Symmetrical 30°x 90° narrow beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

Power supply with quick connector.

The polycarbonate diffuser according to HACCP regulations.

The stated flux and power values may be subject to a +/- 7% tolerance.

Stainless steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	6500	Glass	125	On-off	6,56	820382
144	63	11000	8001	Glass	127	On-off	6,29	820482
144	75	12200	9375	Glass	125	On-off	6,20	820582
96	52	8200	6500	Polycarbonate	125	On-off	3,67	825382
144	63	11000	8001	Polycarbonate	127	On-off	4,00	825482
144	75	12200	9375	Polycarbonate	125	On-off	4,00	825582

Painted galvanized steel



96	52	8200	6500	Glass	125	On-off	6,30	840382
144	63	11000	8001	Glass	127	On-off	6,34	840482
144	75	12200	9375	Glass	125	On-off	6,30	840582
96	52	8200	6500	Polycarbonate	125	On-off	4,10	845382
144	63	11000	8001	Polycarbonate	127	On-off	4,10	845482
144	75	12200	9375	Polycarbonate	125	On-off	4,10	845582

Accessories RINO



RINO LED equipped with a **pair of adjustable supports for wall or ceiling mounting**

Pair of adjustable supports for wall or ceiling mounting



Material:
AISI 304
Stainless steel

Code: **820010**

Pairs of "V" supports for ceiling mounting



Material:
AISI 304
Stainless steel

Code: **820017**

Pairs of hooks for pendant mounting



Material:
AISI 304
Stainless steel

Code: **820011**

Adaptation kit for pendant mounting and ceiling



Material:
AISI 304
Stainless steel

Code: **820018**

Pair of collars for installation on pipe for steel light fixtures



Material:
AISI 304
Stainless steel

Code: **820016**

Quick ceiling mounting fastening Kit



Material:
AISI 304
Stainless steel

Code: **820019**

Notes: in case of relamping, the adaptation kit allows you to adjust the mounting hole spacing of the light fixture to those already present in the system.

3 way through-wiring connector
16A 250/400V IP66/IP68



Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power connector consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire.

Retrofit kit for 690 -1300 sizes



Material:
Extra-clear tempered glass

Power (W)	Length (mm)	Nominal flux (lm)	Output flux (lm)	Version	Code
26	690	4100	3562	On - off	821184
52	1300	8200	7072	On - off	821384

Notes: the retrofit kit can only be used in the fluorescent light fixtures of the RINO series.

META150 pendant mounting



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

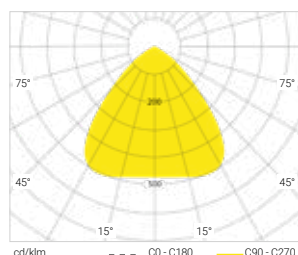
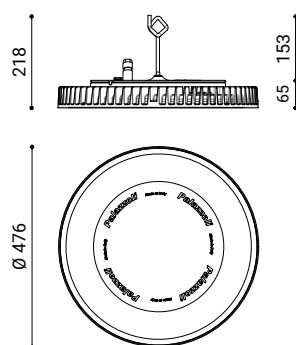
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy (EN 46100)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass or polycarbonate
Protection rating	IP66/IP67 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C4-M / C3-H (ISO 9223)
Mounting system	Quick connection for pendant mounting
Ambient operating temperature	-40 °C - +40 °C -40 °C - +50 °C (HE version) -40 °C - +60 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 151 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Glare index	UGR <22
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 110,000h Tq=+40° C L90 B10 @ 230,000h Tq=+25° C
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	10 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm

Special versions can be made by combining materials, optics and operating temperatures. Products with radio wave remote control, with insulation class II and colour temperatures from 3000 K to 6500 K can be supplied.

META150 pendant mounting



Symmetrical 90° comfort extra wide beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 5 m and 8 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
84	117	19600	16349	Glass	140	DALI	8,59	810630DA
112	156	26100	21798	Glass	140	DALI	8,74	810640DA
140	179	30800	25712	Glass	144	DALI	8,94	810650DA
168	215	37000	30883	Glass	144	DALI	9,31	810660DA

High temperature



84	73	12700	10775	Glass	148	DALI	8,59	810430HT
112	97	16900	14317	Glass	148	DALI	8,74	810440HT
140	112	20300	16912	Glass	151	DALI	8,94	810450HT
168	134	24200	20234	Glass	151	DALI	9,31	810460HT

High Efficiency



84	96	16300	13632	Glass	142	DALI	8,59	810430DA
112	129	21900	18318	Glass	142	DALI	8,74	810440DA
140	151	26600	22197	Glass	147	DALI	8,94	810450DA
168	181	31700	26426	Glass	146	DALI	9,31	810460DA

HACCP Food

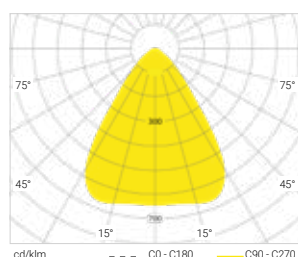
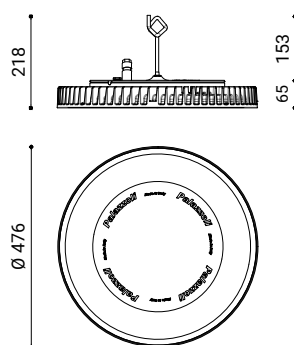


84	117	19600	16349	Polycarbonate	140	DALI	8,59	810432DA
112	156	26100	21798	Polycarbonate	140	DALI	8,74	810442DA
140	179	30800	25712	Polycarbonate	144	DALI	8,94	810452DA
168	215	37000	30883	Polycarbonate	144	DALI	9,31	810462DA

Luminaires designed for operation in centralized emergency lighting systems (Vac/Vdc).

Special versions can be requested with the stand-alone emergency kit page 145.

META150 pendant mounting



Symmetrical 75° medium beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 6 m and 9 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
84	117	19600	16022	Glass	137	DALI	8,59	810631DA
112	156	26100	21362	Glass	137	DALI	8,74	810641DA
140	179	30800	25193	Glass	141	DALI	8,94	810651DA
168	215	37000	30260	Glass	141	DALI	9,31	810661DA

High temperature



84	73	12700	10600	Glass	145	DALI	8,59	810431HT
112	97	16900	14085	Glass	145	DALI	8,74	810441HT
140	112	20300	16576	Glass	148	DALI	8,94	810451HT
168	134	24200	19832	Glass	148	DALI	9,31	810461HT

High efficiency



84	96	16300	13440	Glass	140	DALI	8,59	810431DA
112	129	21900	18060	Glass	140	DALI	8,74	810441DA
140	151	26600	21895	Glass	145	DALI	8,94	810451DA
168	181	31700	26064	Glass	144	DALI	9,31	810461DA

HACCP Food



84	117	19600	16022	Polycarbonate	137	DALI	8,59	810433DA
112	156	26100	21362	Polycarbonate	137	DALI	8,74	810443DA
140	179	30800	25193	Polycarbonate	141	DALI	8,94	810453DA
168	215	37000	30260	Polycarbonate	141	DALI	9,31	810463DA

Luminaires designed for operation in centralized emergency lighting systems (Vac/Vdc).

Special versions can be requested with the stand-alone emergency kit page 145.

META pendant mounting



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

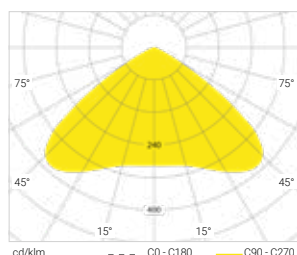
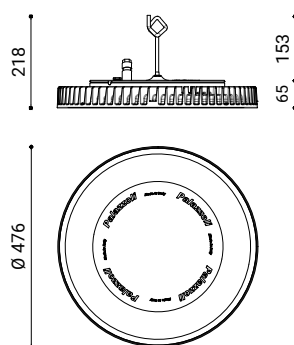
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy (EN 46100)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass or polycarbonate
Protection rating	IP66/IP67 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C4-M / C3-H (ISO 9223)
Mounting system	Quick connection for pendant mounting
Ambient operating temperature	-40 °C - +40 °C -40 °C - +55 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 110 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L80 B20 @ 110,000h Tq=+40 °C Tq= +55 °C (HT version)
Emergency battery life	1h - 3h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	10 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm

Special versions with radio wave remote control can be requested by combining materials, optics and operating temperatures.

META pendant mounting



Symmetrical 110° extra wide beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 4 m and 8 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
9	99	13230	10830	Glass	109	Dimmable 1-10V	8,59	810090
12	133	17640	14439	Glass	109	Dimmable 1-10V	8,74	810020
15	168	22050	18049	Glass	107	Dimmable 1-10V	8,94	810050
18	199	26460	21659	Glass	109	Dimmable 1-10V	9,31	810080

Emergency



to be completed
with the kit on page 145

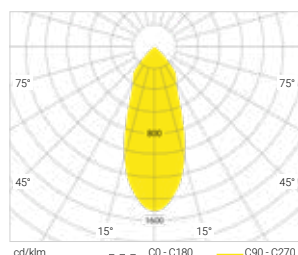
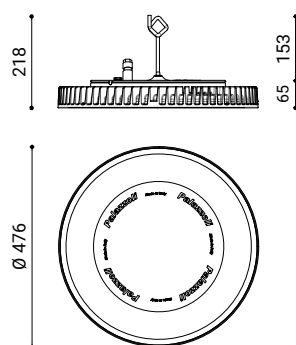
9	99	13230	10830 (770 in EM)	Glass	109	Dimmable 1-10V 1h-3h Emergency	9,24	810190
12	133	17640	14439 (770 in EM)	Glass	109	Dimmable 1-10V 1h-3h Emergency	9,39	810120
15	168	22050	18049 (770 in EM)	Glass	107	Dimmable 1-10V 1h-3h Emergency	0,10	810150
18	199	26460	21659 (770 in EM)	Glass	109	Dimmable 1-10V 1h-3h Emergency	9,96	810180

High temperature



9	76	10187	8339	Glass	110	Dimmable 1-10V	8,59	810090HT
12	102	13583	11118	Glass	109	Dimmable 1-10V	8,74	810020HT
15	128	16979	13898	Glass	108	Dimmable 1-10V	8,94	810050HT
18	153	20374	16677	Glass	109	Dimmable 1-10V	9,31	810080HT

META pendant mounting



Symmetrical 41° narrow beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 6 m and 9 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

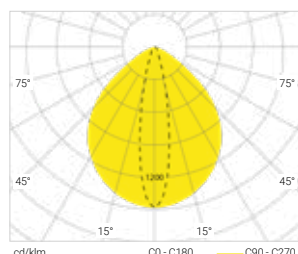


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
9	99	13230	10572	Glass	107	Dimmable 1-10V	8,59	810091
12	133	17640	14096	Glass	106	Dimmable 1-10V	8,74	810021
15	168	22050	17620	Glass	105	Dimmable 1-10V	8,94	810051
18	199	26460	21144	Glass	106	Dimmable 1-10V	9,31	810081

High temperature



9	76	10187	8140	Glass	107	Dimmable 1-10V	8,59	810091HT
12	102	13583	10854	Glass	106	Dimmable 1-10V	8,74	810021HT
15	128	16979	13567	Glass	105	Dimmable 1-10V	8,94	810051HT
18	153	20374	16281	Glass	106	Dimmable 1-10V	9,31	810081HT



Elliptical 92° x 20° beam optics

Included: connection with double chain bracket.

Recommended installation: suitable for installation between the lanes of industrial warehouses.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
9	99	13230	9965	Glass	101	Dimmable 1-10V	8,59	810092
12	133	17640	13287	Glass	100	Dimmable 1-10V	8,74	810022
15	168	22050	16609	Glass	99	Dimmable 1-10V	8,94	810052
18	199	26460	19931	Glass	100	Dimmable 1-10V	9,31	810082

Accessories META150 e META pendant mounting



META150 equipped with **bracket for ceiling mounting**

Adjustable bracket for wall installation
poles and light towers



Material:
Galvanized steel

Code: **810999**

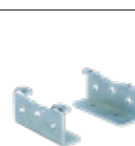
Catenary wire installation bracket
0-90° adjustable



Material:
Galvanized steel

Code: **810994**

Bracket for double chain
and busbar installation



Material:
Galvanized steel

Code: **810997**

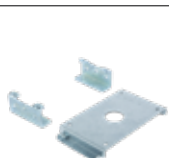
0-90° swivelling attachment
for double chain and busbar installation



Material:
Galvanized steel

Code: **810996**

Bracket for ceiling mounting



Material:
Galvanized steel

Code: **810998**

Bracket for installation with Ø 60 mm pole



Material:
Galvanized steel

Code: **810995**

1h Emergency kit



Material:
Aluminium alloy

Code: **810992**

3h Emergency kit



Material:
Aluminium alloy

Code: **810991**

3 way through-wiring connector
16A 250/400V IP66/IP68



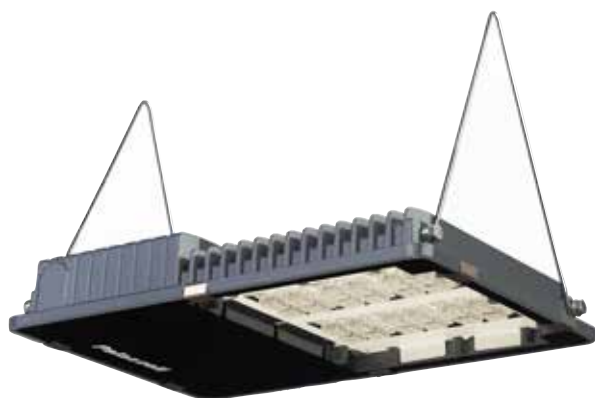
Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Features: 1 M20 entry and 1 exit with connector.
Notes: the interface bracket is designed for double fixed chain connection and quick connection for pendant mounting.
When carrying out post mounting, adjustable mounting, ceiling mounting and adjustable bracket mounting, the emergency kit must be mounted close to the unit (max 1.5 m).

Notes: the power connector consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire.

TIGUA pendant mounting



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

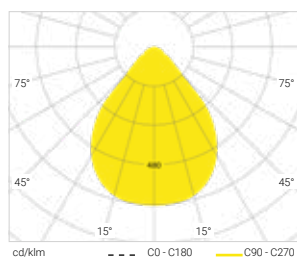
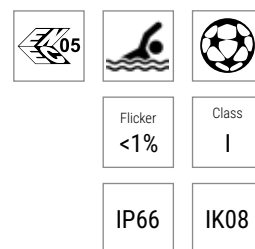
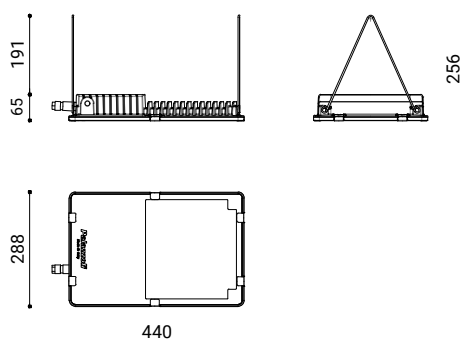
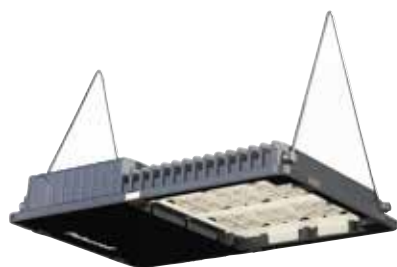
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Die-cast aluminium (aeronautical alloy) EN 44300
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass or polycarbonate
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-40 °C - +40 °C -40 °C - +60 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 122 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L80 B20 @ 120,000h Tq=+40 °C Tq=+60 °C (HT version)
Emergency battery life	1h - 3h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	8 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	1,5 mm ²
Entry cable diameter	9 ÷ 12 mm

Special versions can be made by combining materials, optics and operating temperatures. Products with radio wave remote control, with insulation class II and colour temperatures from 3000 K to 6500 K can be supplied.

TIGUA pendant mounting



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 4 m and 7 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



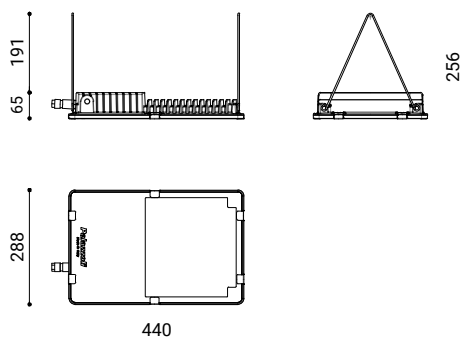
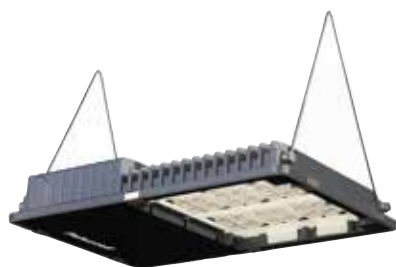
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	99	13875	11944	Glass	121	Dimmable 1-10V	5,86	817312
16	132	18500	15926	Glass	121	Dimmable 1-10V	5,88	817316
20	153	23125	18032	Glass	118	Dimmable 1-10V	6,38	817320
24	182	27750	22100	Glass	121	Dimmable 1-10V	6,50	817324
12	99	13875	11944	Glass	121	DALI	5,78	817312DA
16	132	18500	15926	Glass	121	DALI	5,88	817316DA
20	153	23125	18032	Glass	118	DALI	6,17	817320DA
24	182	27750	22100	Glass	121	DALI	6,44	817324DA

High temperature



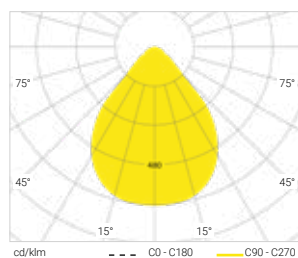
12	74	11575	8593	Glass	116	Dimmable 1-10V	5,86	817312HT
16	94	15434	10990	Glass	117	Dimmable 1-10V	5,88	817316HT
20	112	18135	13292	Glass	119	Dimmable 1-10V	6,38	817320HT
24	133	21761	15746	Glass	118	Dimmable 1-10V	6,73	817324HT

TIGUA pendant mounting

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 4 m and 7 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.

HACCP Food



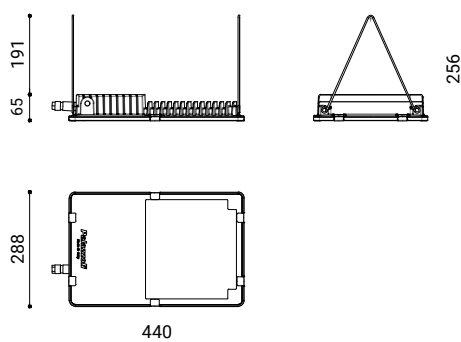
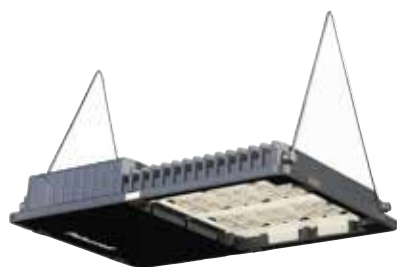
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	99	13875	11944	Polycarbonate	121	Dimmable 1-10V	5,39	817512
16	132	18500	15926	Polycarbonate	121	Dimmable 1-10V	5,88	817516
20	153	23125	18032	Polycarbonate	118	Dimmable 1-10V	5,91	817520
24	182	27750	22100	Polycarbonate	121	Dimmable 1-10V	5,94	817524

Emergency

to be completed with the kit
on page 151

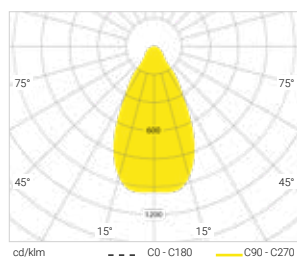
12	99	13875	11944 (995 in EM)	Glass	121	Dimmable 1-10V 1h-3h Emergency	6,16	817313
16	132	18500	15926 (995 in EM)	Glass	121	Dimmable 1-10V 1h-3h Emergency	6,18	817317
20	153	23125	18032 (995 in EM)	Glass	118	Dimmable 1-10V 1h-3h Emergency	6,68	817321
24	182	27750	22100 (995 in EM)	Glass	121	Dimmable 1-10V 1h-3h Emergency	6,73	817325

TIGUA pendant mounting

Flicker
<1%Class
I

IP66

IK08



Symmetrical 55° medium beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 5 m and 8 m.

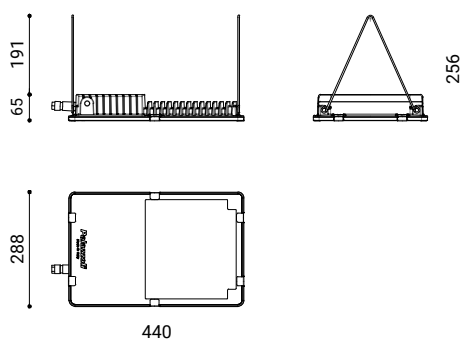
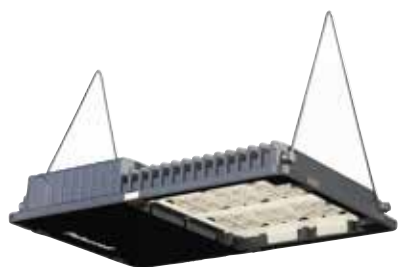
Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



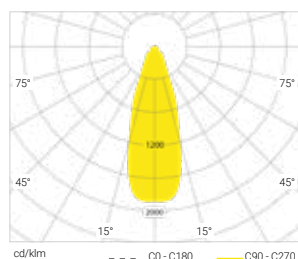
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	99	13875	11218	Glass	113	Dimmable 1-10V	5,86	817362
16	132	18500	14957	Glass	113	Dimmable 1-10V	6,18	817366
20	145	23125	17069	Glass	118	Dimmable 1-10V	6,68	817370
24	170	27750	20208	Glass	119	Dimmable 1-10V	6,73	817374

TIGUA pendant mounting

Flicker
<1%Class
I

IP66

IK08

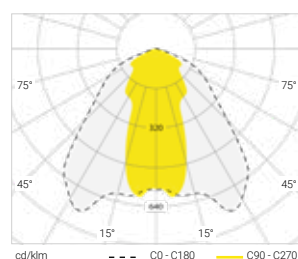


Symmetrical 36° narrow beam optics

Included: double chain and busbar attachment.
Recommended installation height: over 6 m.
Power supply with 5P quick connector.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	99	13875	11123	Glass	112	Dimmable 1-10V	5,81	817412
16	132	18500	14831	Glass	112	Dimmable 1-10V	5,88	817416
20	145	23125	16924	Glass	117	Dimmable 1-10V	6,38	817420
24	170	27750	20034	Glass	118	Dimmable 1-10V	6,73	817424



Elliptical 95° x 41° beam optics

Included: double chain and busbar attachment.
Recommended installation: suitable for installation between the lanes of industrial warehouses.
Power supply with 5P quick connector.
The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	99	13875	11444	Glass	116	Dimmable 1-10V	5,86	817462
16	132	18500	15258	Glass	116	Dimmable 1-10V	5,88	817466
20	153	23125	17418	Glass	114	Dimmable 1-10V	6,38	817470
24	182	27750	20627	Glass	113	Dimmable 1-10V	6,73	817474

Accessories TIGUA pendant mounting



TIGUA pendant mounting equipped with **0 - 90° adjustable attachment for double chain and busbar installation**

0 - 90° adjustable attachment for catenary wire installation



Material:
Galvanized steel

Code: **811921**

0 - 90° adjustable attachment for double chain and busbar installation



Material:
Galvanized steel

Code: **811919**

Kit with bracket for ceiling mounting



Material:
Galvanized steel

Code: **811916**

Set of brackets for diam. 60 mm post installation



Material:
Galvanized steel

Code: **811920**

Bracket for wall installation



Material:
Galvanized steel

Code: **811922**

3-way shunt for input-output connection
16A 250/400V IP66/IP68



Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power connector consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire.

1h Emergency kit



+ 40°C
0°C



Material:
Aluminium alloy

Code: **811923**

3h Emergency kit



+ 40°C
0°C



Material:
Aluminium alloy

Code: **811924**

Features: 1 M20 entry and 1 exit with connector.

Notes: the interface bracket is designed for double fixed chain connection and quick connection for pendant mounting.

When carrying out post mounting, adjustable mounting, ceiling mounting and adjustable bracket mounting, the emergency kit must be mounted close to the unit (max 1.5 m).

XTIGUA pendant mounting



Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Anti-UV non-toxic polyester paint cured in the oven
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-40 °C - +35 °C -40 °C - +55 °C (HT version) -40 °C - +70 °C (VHT version)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 130 lm/W
Colour temperature	4.000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L80 B20 @ 120,000h Tq=+40 °C L80 B20 @ 120,000h Tq=+55 °C (HT version) L80 B20 @ 100,000h Tq=+70 °C (VHT version)
Insulation class	I
Supply voltage	200-240 V 0/50/60 Hz
Surge protection	8 kV common mode 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm



WARRANTY
UP TO 7 YEARS



DIRECTIVES

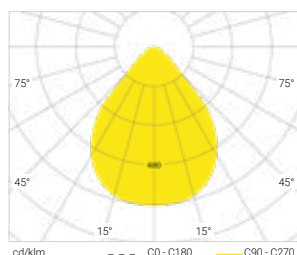
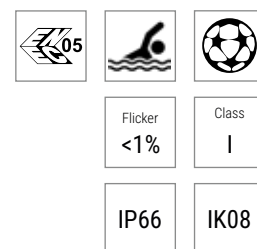
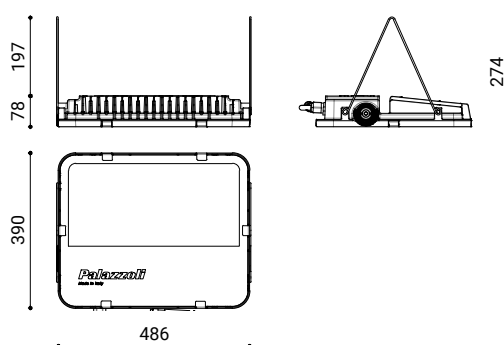
2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Special versions can be made by combining materials, optics and operating temperatures. Products with radio wave remote control, with insulation class II and colour temperatures from 3000 K to 6500 K can be supplied.

XTIGUA pendant mounting | M size



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

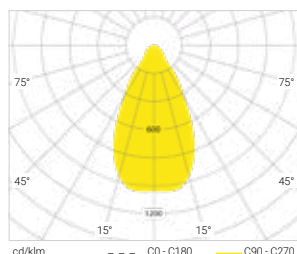
Recommended installation height between 9 m and 15 m.

Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
28	235	33250	28787	Glass	123	DALI	7,50	819328DA
32	270	38000	32940	Glass	122	DALI	7,60	819332DA



Symmetrical 55° medium beam optics

Included: double chain and busbar attachment.

Recommended installation height between 9 m and 15 m.

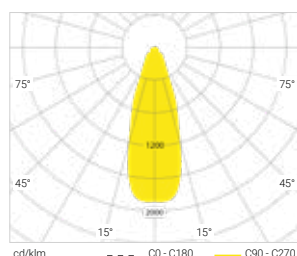
Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

High temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
28	166	27009	21580	Glass	130	DALI	7,50	819428HT
32	189	30867	24532	Glass	130	DALI	7,60	819432HT



Symmetrical 36° narrow beam optics

Included: double chain and busbar attachment. Recommended installation height between 9 m and 15 m.

Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

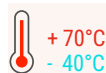
The very high temperature versions are equipped with an external driver, already mounted on the suspension and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.



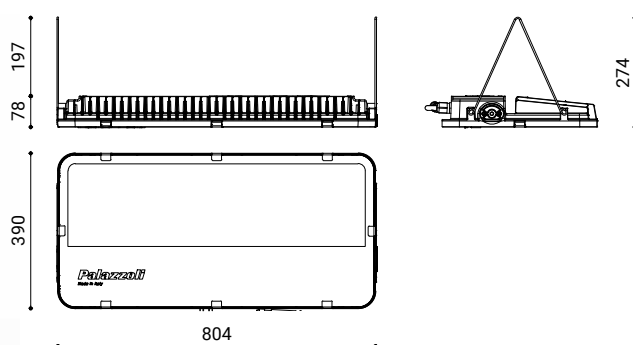
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
28	235	33250	28670	Glass	122	DALI	7,50	819528DA
32	270	38000	32805	Glass	122	DALI	7,60	819532DA

Very high temperature



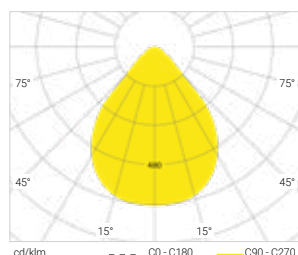
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
28	166	27009	21580	Glass	130	DALI	8,60	819528VHT
32	189	30867	24570	Glass	130	DALI	8,70	819532VHT

XTIGUA pendant mounting | L size

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

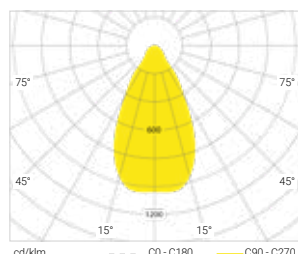
Recommended installation height between 9 m and 15 m.

Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

 + 35°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	336	47500	41160	Glass	123	DALI	12,00	819340DA
48	400	57000	48800	Glass	122	DALI	12,10	819348DA



Symmetrical 55° medium beam optics

Included: double chain and busbar attachment.

Recommended installation height between 9 m and 15 m.

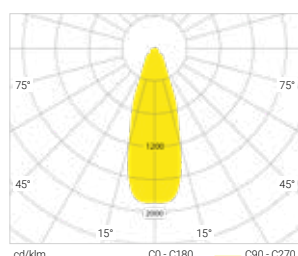
Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

The stated flux and power values may be subject to a +/- 7% tolerance.

 + 55°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	237	38584	30810	Glass	130	DALI	12,00	819440HT
48	284	46301	36579	Glass	129	DALI	12,10	819448HT

High temperature



Symmetrical 36° narrow beam optics

Included: double chain and busbar attachment. Recommended installation height between 9 m and 15 m.

Power supply with 5Px1.5mm² quick-fit connector and 1.5mm² H07RN-F cable.

The very high temperature versions are equipped with an external driver, already mounted on the suspension and wired.

The stated flux and power values may be subject to a +/- 7% tolerance.

 + 35°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	336	47500	40992	Glass	122	DALI	12,00	819540DA
48	400	57000	48600	Glass	122	DALI	12,10	819548DA

Very high temperature

 + 70°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	237	38584	30810	Glass	130	DALI	14,30	819540VHT
48	284	46301	36920	Glass	130	DALI	14,40	819548VHT

Accessories XTIGUA pendant mounting



XTIGUA pendant mounting provided with **kit including a bracket for ceiling mounting - L size**

0 - 90° adjustable attachment for double chain installation - M size



Material:
Galvanized steel

Code: **819994**

0 - 90° adjustable attachment for double chain installation - L size



Material:
Galvanized steel

Code: **819995**

Wall mounting bracket kit - M size



Material:
Galvanized steel

Code: **819998**

Ceiling mounting bracket kit - M size



Material:
Galvanized steel

Code: **819996**

Ceiling mounting bracket kit - L size



Material:
Galvanized steel

Code: **819997**

Wall mounting bracket kit - L size



Material:
Galvanized steel

Code: **819999**

Note: cannot be used on the VHT 70 °C version.

Note: cannot be used on the VHT 70 °C version.

3-way shunt for input-output connection
16A 250/400V IP66/IP68



Poles: 5
Max section (mm²): 2,5
Clamping diameter (mm): 7-13

Code: **818905**

Notes: the power connector consists of 1 input and 2 outputs and is suitable for making an external input-output connection to the luminaire.

YUMA pendant mounting



Body material	AISI 316L stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-40 °C - +45 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	130 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 110,000h Tq=+45 °C
Insulation class	I
Supply voltage	220-240V 50/60 Hz
Surge protection	10 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Quick connector
Max. conductor cross-section	2,5 mm ²
Inlet cable diameter	7 ÷ 13 mm



WARRANTY
UP TO 7 YEARS



DIRECTIVES

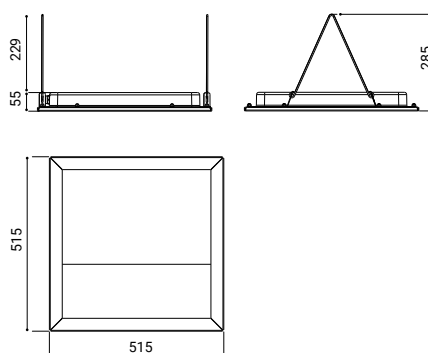
2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

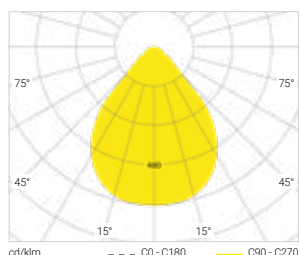
Special versions can be made with colour temperatures ranging from 3000 K to 6500 K.

YUMA pendant mounting | L size

Flicker
<1%Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

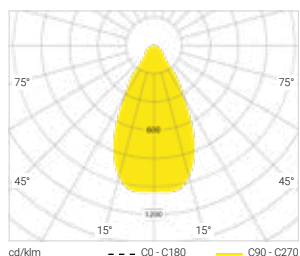
Recommended installation height: between 4 m and 7 m.

Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	DALI	8,50	808350DA
48	196	30576	25480	Glass	130	+40	DALI	8,50	808360DA



Symmetrical 55° medium beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 5 m and 8 m.

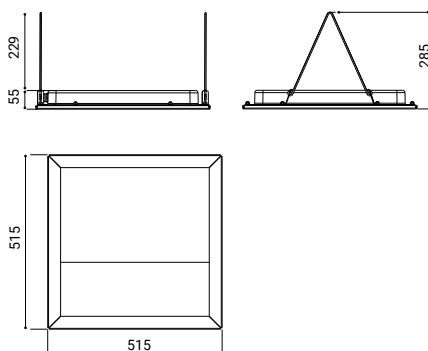
Power supply with 5P quick connector.

The stated flux and power values may be subject to a +/- 7% tolerance.



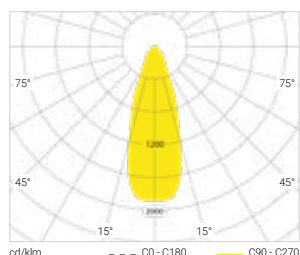
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	DALI	8,50	808356DA
48	196	30576	25480	Glass	130	+40	DALI	8,50	808366DA

YUMA pendant mounting | L size

Flicker
<1%Class
I

IP66

IK08

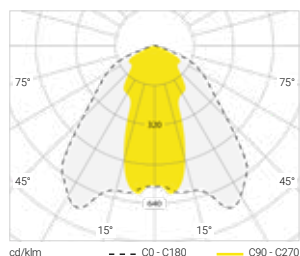


Symmetrical 36° narrow beam optics

Included: double chain and busbar attachment.
Recommended installation height: over 6 m.
Power supply with 5P quick connector.
The stated flux and power values may be subject to a +/- 7% tolerance.

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	DALI	8,50	808351DA
48	196	30576	25480	Glass	130	+40	DALI	8,50	808361DA



Elliptical 95° x 41° beam optics

Included: double chain and busbar attachment.
Recommended installation: suitable for installation between the lanes of industrial warehouses.
Power supply with 5P quick connector.
The stated flux and power values may be subject to a +/- 7% tolerance.

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
48	148	23088	19240	Glass	130	+45	DALI	8,50	808358DA
48	196	30576	25480	Glass	130	+40	DALI	8,50	808368DA



Control systems

For dimmable
DALI luminaires



IMPERIUM
DALI wired

Page 160



IMPERIUM
wireless

Page 162

IMPERIUM DALI wired



DALI SENSOR CODE 836001

Addressable DALI sensor for ceiling mounting for large areas	Power supply 110-240V Vac 50/60Hz
Maximum installation altitude	14 m
Protection rating	IP20
Electrical insulation class	II
Adjustment brightness value of dusk sensor	10 – 2000 lux
Absorbed power	1 W
Detection Area	Vertical 360°
Temperature of operation	-25 °C – +50 °C
Casing material	Polycarbonate
Max.no. of controllable luminaires/sensors	40 META light fixtures 40 TIGUA light fixtures 40 XTIGUA M light fixtures 20 XTIGUA L light fixtures 40 RINO light fixtures



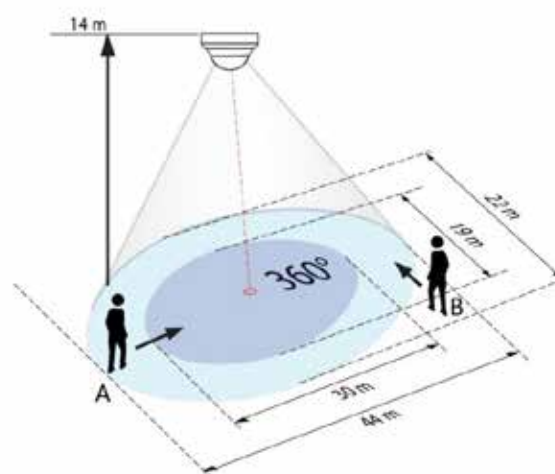
DIRECTIVES

2014/53/EU (RED)
2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55022
EN 50491-2
EN 50491-3
EN 50491-5-1
EN 50491-5-2
EN 50491-5-3
EN 61000-3-2
EN 61000-3-3
EN 62386-101
EN 62386-103
EN 63000

DETECTION FIELD



A: frontal approach to the sensor
B: lateral approach to the sensor

Palazzoli is able to provide brightness and presence sensors with reading heights suitable for different application areas and for different protocols.

IMPERIUM DALI wired



DALI brightness and presence sensor

For the adjustment of artificial lighting according to natural light.

	Interface	Max manageable luminaires No.	Weight (Kg)	Colour	Code
Standard	DALI/DSI	40	0,125	White	836001

+ 50°C
- 25°C



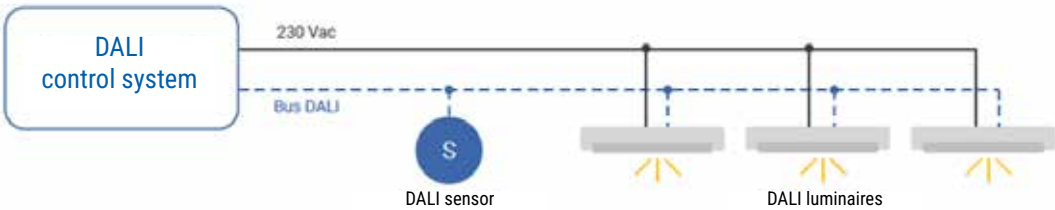
IR remote control

For programming the intervention threshold of the brightness sensors.

	Detector type	Detection	Max distance of reception m	Equipment	Measuring of light	Code
Standard	Movement and natural light	Automatic and semi-automatic	17	Wall support	By test button or auto- matically when the light is for 1 hour less than 50 LUX	836002

+ 50°C
- 25°C

SYSTEM ARCHITECTURE



The DALI sensor constantly measures the brightness value in the environment and compares this value with the value set in the presence detector. If the natural light value is sufficient, the artificial lights will not be switched on. If the natural light value is lower than the set value, the sensor turns on the light and adjusts it until it reaches the set light level. The detector automatically turns off the light after 5min. if the natural light present is higher than the set Lux value and/or if no presence is detected after the set delay time.



SIMULTANEOUS DUAL BAND SYSTEM



DIRECTIVES

2014/53/EU (RED)
2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-11
EN 61547
EN 63000
EN 300 220-2
EN 301 489-1
EN 301 489-3

REMOTE CONTROL NODE



Material	Thermoplastic
Protection rating	IP67
Radio frequency	2,4 GHz - 868 MHz (simultaneous Dual Band)
Optimal communication distance	200 m in Dual Band
No. of manageable drivers	8

REMOTE CONTROL NODE WITH SENSOR



Material	Thermoplastic
Protection rating	IP67
Radio frequency	2,4 GHz - 868 MHz (simultaneous Dual Band)
Optimal communication distance	200 m in Dual Band
No. of manageable drivers	4

INTERFACE FOR DEVICE CONFIGURATION



Material	Thermoplastic
Protection rating	IP67
Radio frequency	2,4 GHz - 868 MHz (simultaneous Dual Band)
Distances of operation from the luminaires	50 m - 2,4 GHz 100 m - 868 MHz from PC/smartphone 10 m
Communication standard	Bluetooth 5.0

Palazzoli is able to provide advice on request for the integration of more complex functions, such as consumption monitoring, access control and implementation in building automation systems and management of situations with obstacles to the transmission of wireless signals.

IMPERIUM Wireless



Remote control node for DALI management

Dual band WSN device for control from one to eight points of light. DALI interface. IEEE 802.15.4 communication at 2.4 GHz and 868 MHz LoRa. Bluetooth 5.0. Power supply 230Vac. 3D accelerometer and relay IP67 outdoor box in thermoplastic material. Including: internal 2.4 GHz and 868 MHz Dual Band patch antenna, wiring and two cable glands.

Radio frequency	Antennas	Power supply	Code
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Standard



2,4 GHz – 868 MHz (simultaneous Dual Band)	Integrated	230 Vac	836201
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Remote control node with motion and brightness sensors

It is a Zhaga D4i certified wireless point-to-point lighting remote control device capable of supporting DALI, DALI-2 and D4i standards. Thanks to the installation of a double PIR (Passive InfraRed) sensor and the Fresnel lens, it is able to capture the radiation in the infrared spectrum radiated by moving bodies and apply the dimming profiles set by the control center or the App.

Radio frequency	Antennas	Power supply	Code
-----------------	----------	--------------	------

Standard



2,4 GHz – 868 MHz (simultaneous Dual Band)	Integrated	220Vac/24Vdc	836202
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Interfaces for devices configuration

It performs the function of "radio – radio" or "cable – radio" interface between a mobile device (a laptop, tablet or smartphone) and the mesh network of nodes installed on the light points of a system (city, street, tunnel, sports facility, indoor, etc.).

Radio frequency	Power supply	Code
2,4 GHz – 868 MHz (simultaneous Dual Band)	rechargeable battery	836203

Standard



Android App License

For managing the main settings of the remote control system: lamp control, node status, CAM, group creation, definition of hourly rules and dimming profile. Used to configure remote-controlled luminaires.

Code
836204SER

SYSTEM ARCHITECTURE





Traditional

Steel plants

Sports facilities and large areas

Food industries

Chemical agents

High temperatures

Low temperatures



RINO
E27, G23

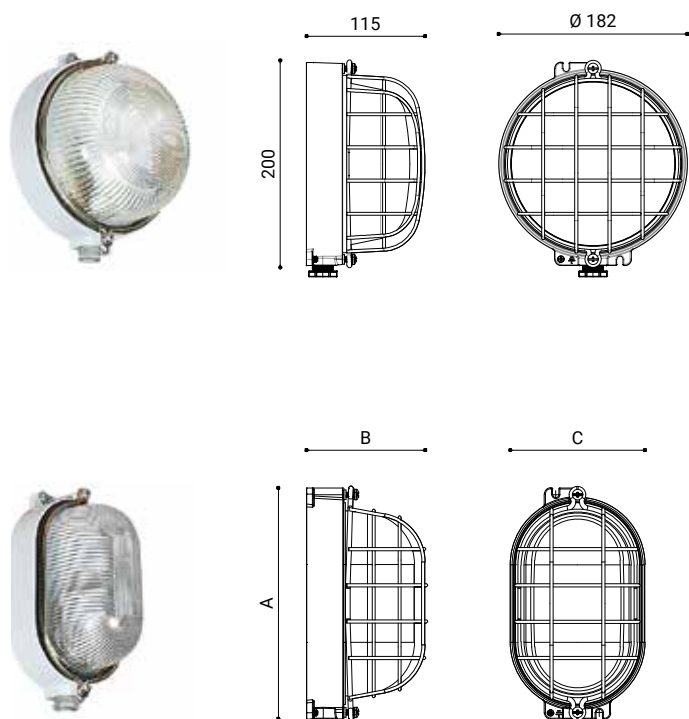
Page 166



RINO
E27

Page 169

RINO light fixtures E27, G23



Size	A (mm)	B (mm)	C (mm)
S	199	119	112
M	226	122	130
L	295	142	170

Body material	Aluminium alloy EN 46100
Surface Treatment	Fluorozirconate passivation
Surface finish	Polymerized non-toxic polyester paint
Colour	RAL 7035
Diffuser material	Tempered prismatic glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK07 as per IEC/EN 62262
Mounting system	Prepared for wall installation
Ambient operating temperature	-40 °C - +70 °C
Ambient storage temperature	-50 °C - +80 °C
Lamp holder type	E27 type in porcelain and G23 type in technopolymer
Insulation class	I
Supply voltage	230V 0/50/60 Hz
Type of power supply	Cable gland M20
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm



DIRECTIVES

2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 60598-1
EN 60598-2-1
EN 63000

RINO light fixtures E27, G23 | Oval



Class

I

IP66

IK07

	Size	Dimensions (mm)	Lamp holder type	Inputs No.	Weight (Kg)	Code
Aluminium alloy	S	199 x 112	E27	1	0,80	831071
	S	199 x 112	E27	2	0,78	831091
	M	226 x 130	E27	1	1,58	831171
	M	226 x 130	E27	2	1,41	831191
	L	295 x 170	E27	1	1,95	831271
	L	295 x 170	E27	2	1,81	831291
	L	295 x 170	G23	1	2,18	831914
With steel protective cage	S	199 x 112	E27	1	0,85	831072
	S	199 x 112	E27	2	0,83	831092
	M	226 x 130	E27	1	1,75	831172
	M	226 x 130	E27	2	1,95	831192
	L	295 x 170	E27	1	1,95	831272
	L	295 x 170	E27	2	1,91	831292
	L	295 x 170	G23	1	2,28	831934
With cast cage	S	199 x 112	E27	1	0,87	831075
	S	199 x 112	E27	2	0,87	831095
	M	226 x 130	E27	1	1,11	831175
	M	226 x 130	E27	2	1,12	831195
	L	295 x 170	E27	1	2,35	831275
	L	295 x 170	E27	2	2,00	831295
	L	295 x 170	G23	1	2,33	831954

RINO light fixtures E27, G23 | Round

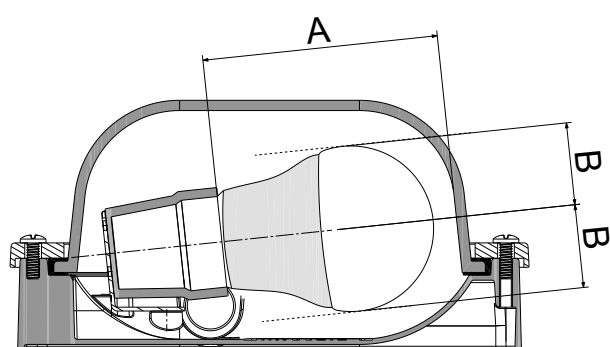
Class
I

IP66

IK07

	Dimensions (mm)	Lamp holder type	Inputs No.	Weight (Kg)	Code
Aluminium alloy	200 x 182	E27	1	0,98	830071
With steel cage	200 x 182	E27	1	1,23	830072

MATCHING LIGHT FIXTURES / BULB	Size	LED (W)	Nominal flux (lm)	
			Warm White 3000K	Neutral White 4000K
	S	8,7	630	640
	M	8,7	940	960
	L	13	1200	1250
	Round	17	1530	1590



	Size	A	B
	S	90	38
	M	110	40
	L	168	43
	Round	90	38

Accessories RINO E27, G23 | Oval and round

Swann type bayonet lamp holder

Material:
BrassCode: **859412**

RINO cylindrical lamp covers E27



E27

Class
I

IP66

IK07



	Inputs No.	Type of installation (mm)	Weight (Kg)	Code
Thermosetting	1	portable	0,97	814052



	Inputs No.	Type of installation (mm)	Weight (Kg)	Code
Aluminium alloy	1	ceiling	0,38	810060
	1	pendant mounting	0,36	812060
	1	90° wall mounting	0,39	811060

Notes: the body codes must be completed with a diffuser of your choice and other accessories among those in the section below.

Accessories RINO lights

Junction box for ceiling mounting Ø 62 mm

	Material	Code
	Aluminium alloy	812988

Protective cage

	Material	Code
	Tropicalized galvanized steel wire	819020

Transparent diffuser

	Material	Colour	Code
	Smooth glass	Transparent	850060

Protective cage

	Material	Code
	Stainless steel wire	819022

Coloured diffusers

	Material	Colour	Code
	Polycarbonate	Transparent	819015
		Yellow	819017
		Red	819018
		Green	819019

Reflector

	Material	Code
	Painted galvanized steel	819030

Swann type bayonet lamp holder with fins

	Material	Type	Code
	Brass	B22d 4A 250C	859400





Atex

The company has established experience in extreme environments where flammable materials, oxidizing chemicals, salt solutions, acids and motor and vegetable oils are treated. Palazzoli is the absolute market leader of ATEX products, explosion-proof equipment intended for high-risk environments.

Power plants, chemical industries, oil platforms, military bases and refineries are just a few areas where lighting fixtures must prevent any spark propagation and ensure safe and reliable operation over time.



Explosive environments due to the presence of GAS

Mines
and tunnel excavations

Petrochemical
and pharmaceutical plants

Painting plants



Gruppo I M2



RINO-EX page 189

Zone 1-2



TIGUA-EX page 177

Zone 1-2



RINO-EX page 193

Zone 1-2



TIGUA-EX page 177

Zone 1-2



XTIGUA-EX page 180

Zone 1-2



TIGUA-EX page 203

Zone 1-2



XTIGUA-EX page 206

Zone 1-2



RINO-EX page 193

Zone 2



META150-EX page 209



Explosive environments due to the presence of DUST

Metalworking

Woodworking

Food powders







Floodlights

Petrochemical and pharmaceutical plants
 Painting plants
 Metalworking
 Woodworking
 Food powders



TIGUA-EX
 zone 1, 2, 21, 22

from 5808 lm to 16560 lm
 Page 176



XTIGUA-EX
 zone 1, 2, 21, 22

from 17365 lm to 33120 lm
 Page 179



TIGUA-EX
 zone 2, 21, 22

from 6312 lm to 18000 lm
 Page 182



XTIGUA-EX
 zone 2, 21, 22

from 19630 lm to 36864 lm
 Page 184

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -135° to +135°
Ambient operating temperature	-35 °C - +60 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 131 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

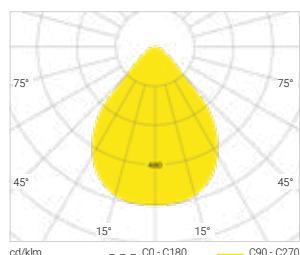
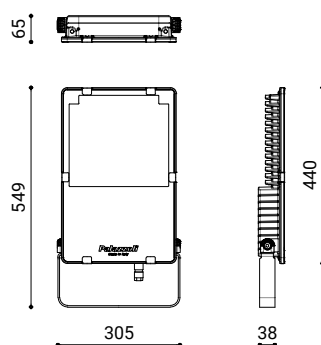
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

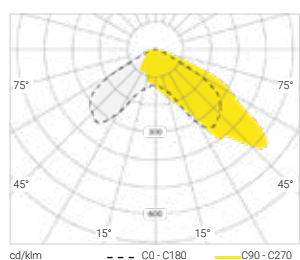
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+60	DALI	6,50	817021EX
12	73	9950	8280	Glass	113	+55	DALI	6,50	817022EX
24	89	13950	11615	Glass	131	+45	DALI	7,10	817023EX
24	141	19850	16560	Glass	117	+40	DALI	7,10	817024EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D



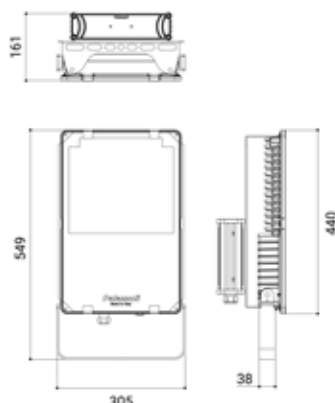
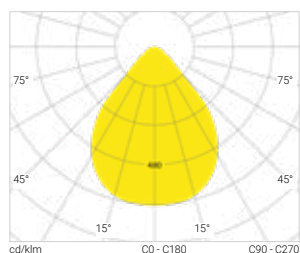
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+60	DALI	6,50	817221EX
12	73	9950	8280	Glass	113	+55	DALI	6,50	817222EX
24	89	13950	11615	Glass	131	+45	DALI	7,10	817223EX
24	141	19850	16560	Glass	117	+40	DALI	7,10	817224EX

TIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Classe
I

IP66

IK08

2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

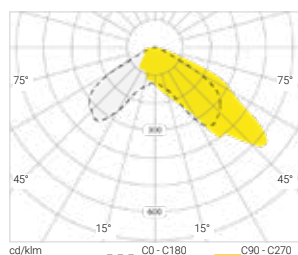
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817041EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817042EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817043EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817044EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817241EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817242EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817243EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817244EX

Accessories TIGUA-EX floodlight on page 101

XTIGUA-EX | Zone 1, 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

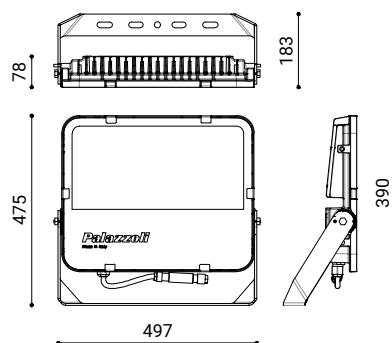
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T5 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -110° to +110°
Ambient operating temperature	-35 °C - +45 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 128 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

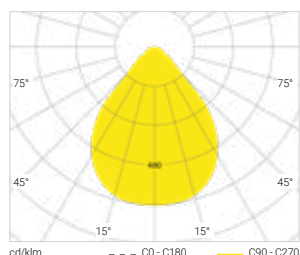
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

XTIGUA-EX | Zone 1, 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

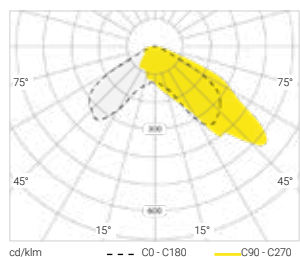
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

+ 45°C
- 35°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+45	DALI	9,00	818021EX
36	214	29800	24840	Glass	116	+40	DALI	9,00	818022EX
48	181	27800	23115	Glass	128	+35	DALI	9,50	818023EX
48	285	39800	33120	Glass	116	+30	DALI	9,50	818024EX



Asymmetrical 50° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

+ 45°C
- 35°C

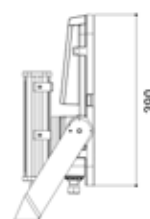
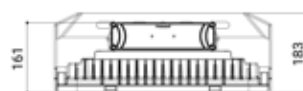
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+45	DALI	9,00	818221EX
36	214	29800	24840	Glass	116	+40	DALI	9,00	818222EX
48	181	27800	23115	Glass	128	+35	DALI	9,50	818223EX
48	285	39800	33120	Glass	116	+30	DALI	9,50	818224EX

XTIGUA-EX | Zona 1, 2, 21, 22 | floodlight

Classe
I

IP66

IK08

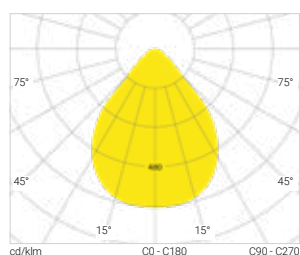
2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

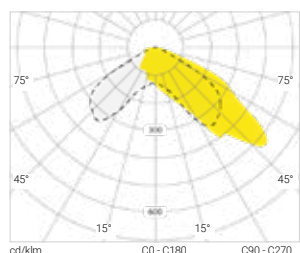


II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818041EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818042EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818044EX



Asymmetrical 50° extra wide beam optics

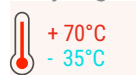
Included: wall-mounting bracket.

Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818241EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818242EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818244EX

Accessories XTIGUA-EX floodlight on page 113

TIGUA-EX | Zone 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -135° to +135°
Ambient operating temperature	-35 °C - +60 °C (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 142 lm/W
Colour temperature	4000 K
Optics features	Anti-aging and UV-resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 60,000 h Tq=+60 °C L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Inlet cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

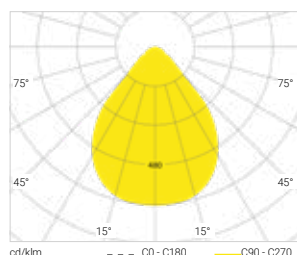
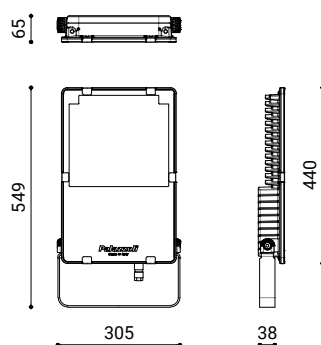
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

TIGUA-EX | Zone 2, 21, 22 | floodlight

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

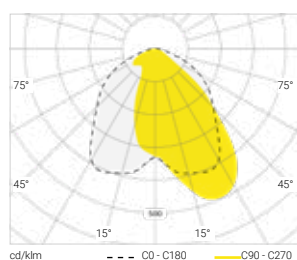
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	7600	6312	Glass	134	+60	DALI	6,50	837021EX
12	73	10800	9000	Glass	123	+55	DALI	6,50	837022EX
24	89	15150	12625	Glass	142	+45	DALI	7,10	837023EX
24	141	21600	18000	Glass	128	+40	DALI	7,10	837024EX



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	7600	6312	Glass	134	+60	DALI	6,50	837221EX
12	73	10800	9000	Glass	123	+55	DALI	6,50	837222EX
24	89	15150	12625	Glass	142	+45	DALI	7,10	837223EX
24	141	21600	18000	Glass	128	+40	DALI	7,10	837224EX

Accessories TIGUA-EX floodlight on page 101

XTIGUA-EX | Zone 2, 21, 22 | floodlight



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	U-bracket with adjustment from -110° to +110°
Ambient operating temperature	-35 °C - +45 °C (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 145 lm/W
Colour temperature	4000 K
Optics features	Anti-aging and UV-resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI ≥ 70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Inlet cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

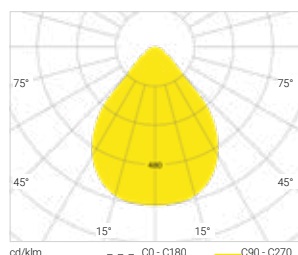
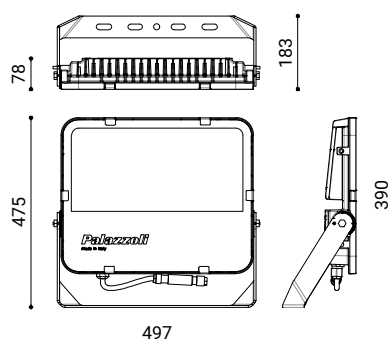
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

XTIGUA-EX | Zone 2, 21, 22 | floodlight

Class
I

IP66

IK08



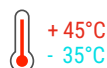
Symmetrical 81° extra wide beam optics

Included: wall-mounting bracket.

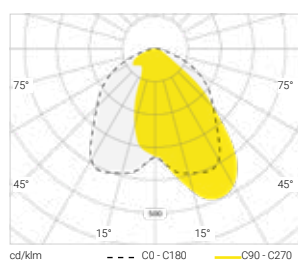
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	23600	19630	Glass	141	+45	DALI	9,00	838021EX
36	214	33200	27648	Glass	129	+40	DALI	9,00	838022EX
48	181	31500	26208	Glass	145	+35	DALI	9,50	838023EX
48	285	44300	36864	Glass	129	+30	DALI	9,50	838024EX



Asymmetrical 23° extra wide beam optics

Included: wall-mounting bracket.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	23600	19630	Glass	141	+45	DALI	9,00	838221EX
36	214	33200	27648	Glass	129	+40	DALI	9,00	838222EX
48	181	31500	26208	Glass	145	+35	DALI	9,50	838223EX
48	285	44300	36864	Glass	129	+30	DALI	9,50	838224EX

Accessories XTIGUA-EX floodlight on page 113





Light fixtures

Mines
Road tunnel excavations
Railway tunnel excavations
Underground areas with firedamp
(grisou) presence

Atex



RINO-EX Group I M2

from 3400 lm to 12353 lm
Page 188

RINO-EX Group I M2



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution Group I	I M2 Ex eb mb I Mb
ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-40 °C - +60 °C 0 °C - +45 °C (emergency versions)
Ambient storage temperature	-40 °C - +75 °C -20 °C - +60 °C (emergency versions)
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging silicon resin and UV resistant with efficiency > 95%
Colour rendering index values	CRI≥80 as per EN 62717
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 40,000 h Tq=+60 °C L80 B10 @ 90,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions) 110-277 Vac / 110-250 Vdc (only DALI version)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M25
Max. conductor cross-section	2,5 mm²
Entry cable diameter	12÷19 mm

Versions in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

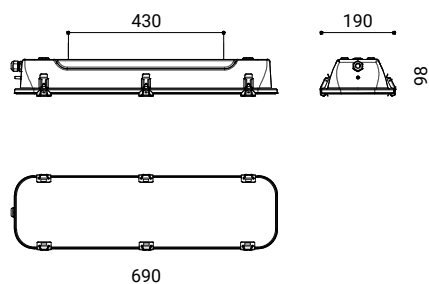
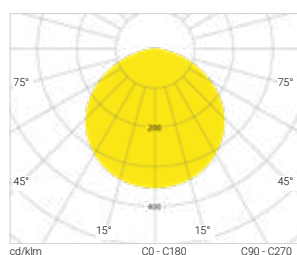
RINO-EX Group I M2 | 690 mm

Classe
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endNickel-plated brass
cable gland M25

Symmetrical 110° extra wide beam optics

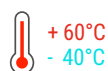
Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 2 M25 cable glands and No. 1 M25 cap in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

I M2
II 2G 2D
Stainless steel



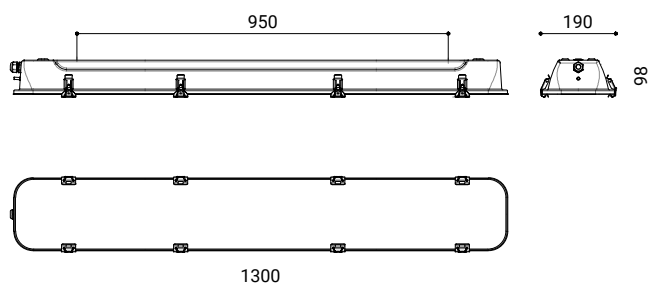
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	24	4080	3400	Glass	148	+60	On-off	4,60	822152EX
192	36	6200	5180	Glass	144	+50	On-off	4,60	822252EX
192	57	9450	7870	Glass	140	+45	On-off	4,60	822352EX
192	71	11550	9623	Glass	136	+35	On-off	4,60	822452EX

I M2
II 2G 2D
Stainless steel
Emergency



192	36	6200	5180 (967 in EM)	Glass	144	+45	On-off 1h Emergency	5,30	822250EX
192	71	11550	9623 (912 in EM)	Glass	136	+35	On-off 1h Emergency	5,30	822450EX
192	36	6200	5180 (420 in EM)	Glass	144	+45	On-off 3h Emergency	5,30	822253EX
192	71	11550	9623 (414 in EM)	Glass	136	+35	On-off 3h Emergency	5,30	822453EX

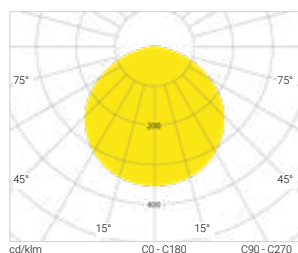
RINO-EX Group I M2 | 1300 mm

Classe
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endNickel-plated brass
cable gland M25

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

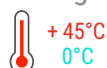
No. 2 M25 cable glands and No. 1 M25 cap in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
IM2	384	86	14800	12353	Glass	144	+45	DALI	7,20 822752EX

II 2G 2D
Stainless steelI M2
II 2G 2D
Stainless steel
Emergency

384	86	14800	12353 (930 in EM)	Glass	144	+45	On-off 1h Emergency	7,80	822750EX
384	86	14800	12353 (400 in EM)	Glass	144	+45	On-off 3h Emergency	7,80	822753EX

Accessories RINO-EX Group I M2 on page 201



Ceiling lights and pendants

Petrochemical and pharmaceutical plants
 Painting plants
 Metalworking
 Woodworking
 Food powders



RINO-EX
 zone 1, 2, 21, 22
 from 3400 lm to 12353 lm
 Page 192



RINO-EX
 zone 2, 21, 22
 from 3562 lm to 10050 lm
 Page 197



TIGUA-EX
 zone 1, 2, 21, 22
 from 5808 lm to 16560 lm
 Page 202



XTIGUA-EX
 zone 1, 2, 21, 22
 from 17365 lm to 33120 lm
 Page 205



META150-EX
 zone 2, 21, 22
 from 8580 lm to 19832 lm
 Page 209

RINO-EX | Zone 1, 2, 21, 22



ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-35 °C - +60 °C (-40 °C on request) 0 °C - +45 °C (emergency versions) -35 °C - +70 °C (very high temperature)
Ambient storage temperature	-40 °C - +75 °C -20 °C - +60 °C (emergency versions)
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging silicon resin and UV resistant with efficiency > 95%
Colour rendering index values	CRI ≥ 80 as per EN 62717
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 50,000 h Tq=+70 °C (very high temperature) L80 B10 @ 90,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions) 110-277 Vac / 110-250 Vdc (only DALI version)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm² 1÷4 mm² (very high temperature)
Entry cable diameter	10÷14 mm 12÷18 mm (very high temperature)



WARRANTY
UP TO 7 YEARS



DIRECTIVES

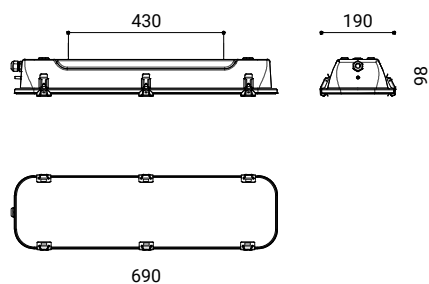
2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Versions in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

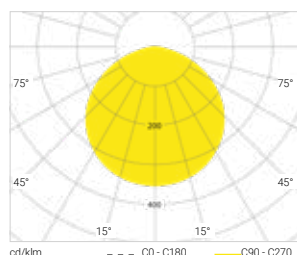
RINO-EX | Zone 1, 2, 21, 22 | 690 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

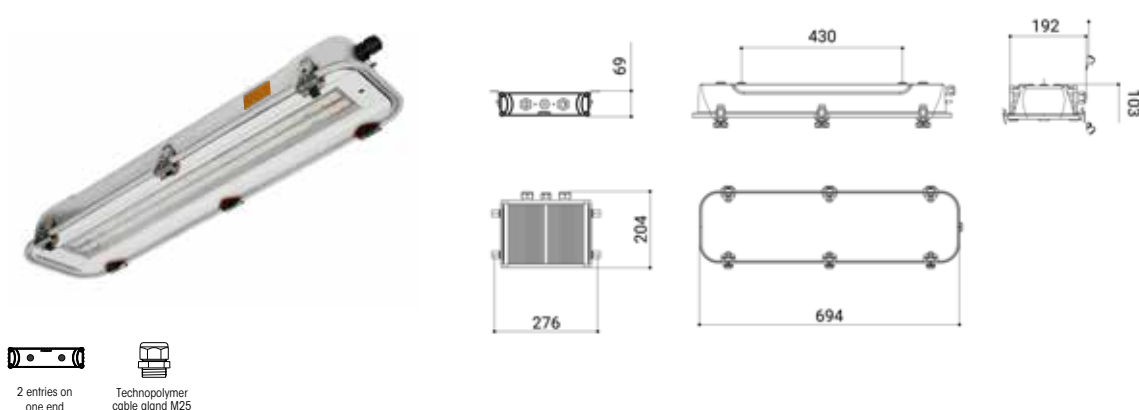
II 2G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	23	4080	3400	Glass	148	+60	On-off	4,60	821172EX
192	36	6200	5180	Glass	144	+50	On-off	4,60	821272EX
192	56	9450	7870	Glass	140	+45	On-off	4,60	821372EX
192	71	11550	9623	Glass	136	+35	On-off	4,60	821472EX

II 2G - 2D
Stainless steel
Emergency

192	36	6200	5180 (967 in EM)	Glass	144	+45	On-off 1h Emergency	5,30	821270EX
192	71	11550	9623 (912 in EM)	Glass	136	+35	On-off 1h Emergency	5,30	821470EX
192	36	6200	5180 (420 in EM)	Glass	144	+45	On-off 3h Emergency	5,30	821273EX
192	71	11550	9623 (414 in EM)	Glass	136	+35	On-off 3h Emergency	5,30	821473EX

RINO-EX | Zone 1, 2, 21, 22 | 690 mm

Class
I

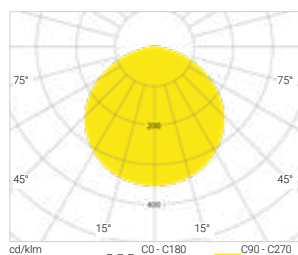
IP65

IP66

IK09

Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply in an external aluminum alloy box, pre-wired with the light fixture and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

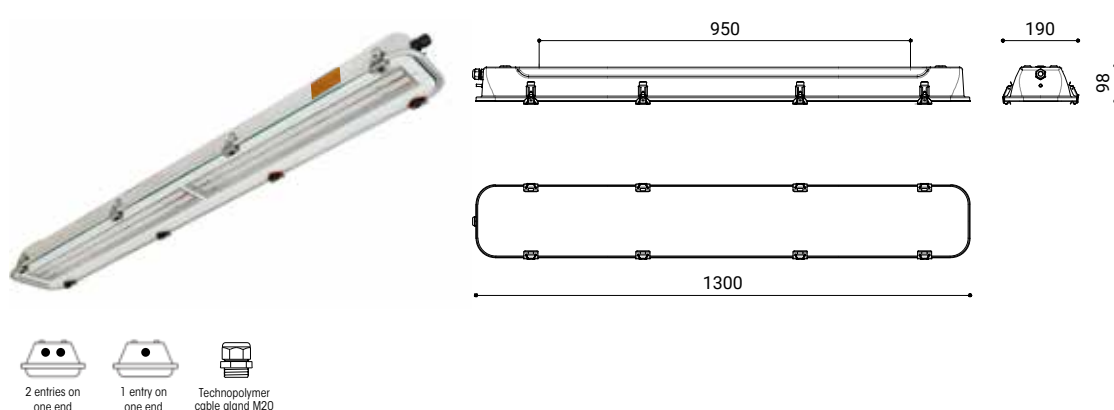


II 2G - 2D
Stainless steel
Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	24	4080	3400	Glass	148	+70	On-off	7,60	821112EX
192	36	6200	5180	Glass	144	+70	On-off	7,60	821212EX
192	57	9450	7870	Glass	140	+70	On-off	7,60	821312EX
192	71	11550	9623	Glass	136	+70	On-off	7,60	821412EX

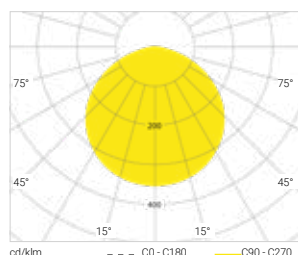
RINO-EX | Zone 1, 2, 21, 22 | 1300 mm

Class
I

IP65

IP66

IK09



Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D
Stainless steel

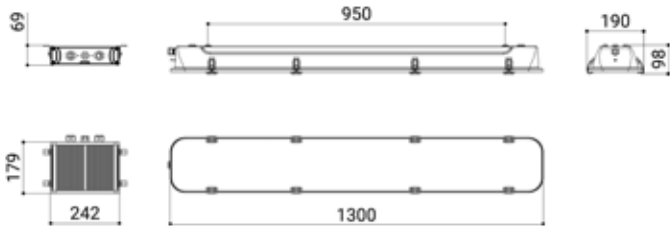
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
192	47	8200	6831	Glass	145	+60	On-off	7,20	821572EX*
192	71	11690	9736	Glass	137	+45	On-off	7,20	821672EX*
384	86	14800	12353	Glass	144	+45	DALI	7,20	821772EX

II 2G - 2D
Stainless steel
Emergency

192	71	11690	9736 (925 in EM)	Glass	137	+45	On-off 1h Emergency	7,80	821670EX*
384	86	14800	12353 (930 in EM)	Glass	144	+45	On-off 1h Emergency	7,80	821770EX
192	71	11690	9736 (420 in EM)	Glass	137	+45	On-off 3h Emergency	7,80	821673EX*
384	86	14800	12353 (400 in EM)	Glass	144	+45	On-off 3h Emergency	7,80	821773EX

* LED modul occupie half of the lenght of the fixture (650 mm respect 1300 mm).

RINO-EX | Zone 1, 2, 21, 22 | 1300 mm



Class
I

IP65

IP66

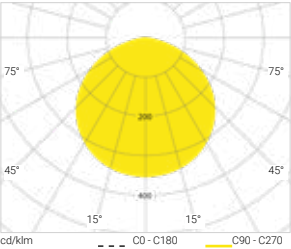
IK09



2 entries on
one end



Technopolymer
cable gland M25



Symmetrical 110° extra wide beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.
Power supply in an external aluminum alloy box, pre-wired with the light fixture and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D
Stainless steel
Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
384	86	14800	12353	Glass	144	+70	DALI	10,20	821712EX

Accessories RINO-EX on page 201

RINO-EX | Zone 2, 21, 22



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

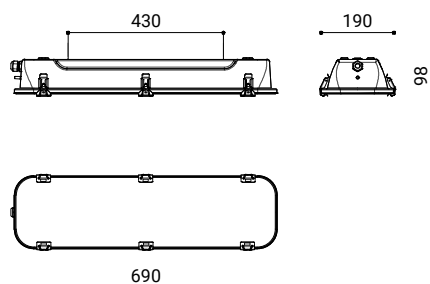
PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 3G - Ex ec mc IIC T6/T5/T4 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	AISI 304 stainless steel Painted galvanized steel
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	RAL 9016
Diffuser material	Extra-clear tempered glass
Protection rating	IP65 as per IEC 60079-0 IP66 as per IEC 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Pair of AISI 304 stainless steel eyebolts
Ambient operating temperature	-35 °C - +55 °C (-40°C on request) 0 °C - +45 °C (emergency versions)
Ambient storage temperature	-40 °C - +70 °C -30 °C - +50 °C (emergency versions)
Actual efficacy of the device	Up to 137 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency > 90% and transparency >95%
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L80 B10 @ 50,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (on-off versions) 220-240 Vac (emergency versions)
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Entry cable diameter	10÷14 mm

Special versions can be made by combining materials and optics. Versions with room temperature up to -40°C and +60°C ; in AISI 316L stainless steel and with colour temperatures from 3000 K to 6500 K can also be produced.

RINO-EX | Zone 2, 21, 22 | 690 mm

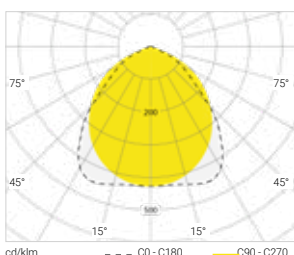


Class
I

IP65

IP66

IK09



Symmetrical 88° comfort beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	26	4100	3562	Glass	137	On-off	4,58	821192EX
72	38	6133	5130	Glass	135	On-off	4,62	821292EX

II 3G - 2D
Stainless steel
Emergency

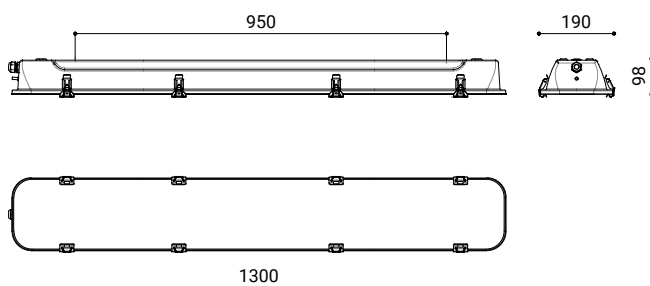
48	26	4100	3562 (589 in EM)	Glass	589	On-off 1h Emergency	5,26	821190EX
72	38	6133	5130 (1082 in EM)	Glass	1082	On-off 1h Emergency	5,30	821290EX
48	26	4100	3562 (347 in EM)	Glass	347	On-off 3h Emergency	3,90	821193EX
72	38	6133	5130 (446 in EM)	Glass	446	On-off 3h Emergency	3,90	821293EX

II 3G - 2D
Painted galvanized steel

48	26	4100	3562	Glass	137	On-off	4,96	841192EX
72	38	6133	5130	Glass	135	On-off	4,62	841292EX



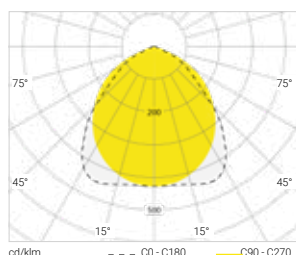
RINOLED-EX | Zone 2, 21, 22 | 1300 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 88° comfort beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	7072	Glass	136	On-off	7,23	821392EX
144	75	12260	10050	Glass	134	On-off	6,27	821492EX

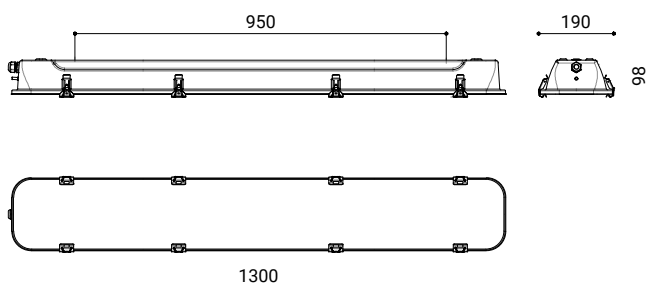
II 3G - 2D
Stainless steel
Emergency

96	52	8200	7072 (1054 in EM)	Glass	1054	On-off 1h Emergency	7,76	821390EX
144	75	12260	10050 (996 in EM)	Glass	996	On-off 1h Emergency	6,58	821490EX
96	52	8200	7072 (427 in EM)	Glass	427	On-off 3h Emergency	8,54	821393EX
144	75	12260	10050 (419 in EM)	Glass	419	On-off 3h Emergency	6,70	821493EX

II 3G - 2D
Painted galvanized steel

96	52	8200	7072	Glass	136	On-off	6,37	841392EX
144	75	12260	10050	Glass	134	On-off	7,96	841492EX

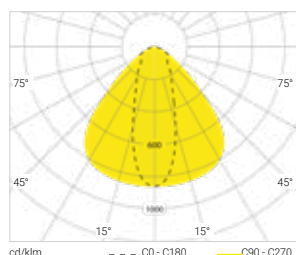
RINO-EX | Zone 2, 21, 22 | 1300 mm

Class
I

IP65

IP66

IK09

2 entries on
one end1 entry on
one endTechnopolymer
cable gland M20

Symmetrical 30° x 90° narrow beam optics

Included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

No. 1 M20 cable gland and No. 2 M20 caps in technopolymer.

The light fixture is designed for through wiring.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D
Stainless steel

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
96	52	8200	6500	Glass	125	On-off	6,20	820392EX
144	75	12260	9525	Glass	127	On-off	7,76	820492EX

+ 55°C
- 35°CII 3G - 2D
Painted galvanized steel

96	52	8200	6500	Glass	125	On-off	6,30	840392EX
144	75	12260	9525	Glass	127	On-off	6,30	840492EX

+ 55°C
- 35°C



Accessories RINO-EX



RINO-EX equipped with **hooks for pendant mounting**

Pair of swivel mounts for wall or ceiling mounting



Material:
AISI 304
Stainless steel

Code: **820010**

Pairs of "V" supports for ceiling mounting



Material:
AISI 304
Stainless steel

Code: **820017**

Pairs of hooks for pendant mounting



Material:
AISI 304
Stainless steel

Code: **820011**

Adaptation kit for pendant mounting and ceiling



Material:
AISI 304
Stainless steel

Code: **820018**

Pair of collars for tube installation



Material:
AISI 304
Stainless steel

Code: **820016**

Quick ceiling mounting fastening Kit



Material:
AISI 304
Stainless steel

Code: **820019**

Notes: in case of relamping, the adaptation kit allows you to adjust the mounting hole spacing of the light fixture to those already present in the system.

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



ATEX Gas execution	II 2G - Ex eb mb IIC T6/T5/T4 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 75/T 85/T 95 °C Db
Body material	Aluminium alloy with low-content of copper (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-35 °C - +60 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 131 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	110-277 Vac / 110-250 Vdc (<95W) 160-277 Vac / 160-250 Vdc (>95W) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm ² 1÷4 mm ² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

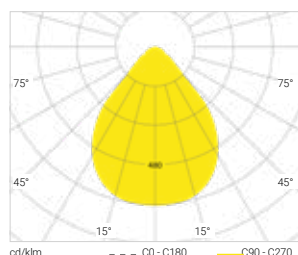
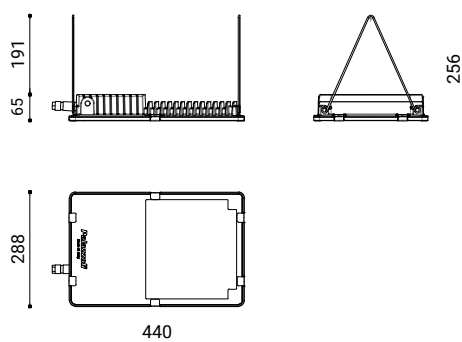
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 4 m and 7 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+60	DALI	6,50	817031EX
12	73	9950	8280	Glass	113	+55	DALI	6,50	817032EX
24	89	13950	11615	Glass	131	+45	DALI	7,10	817033EX
24	141	19850	16560	Glass	117	+40	DALI	7,10	817034EX

Accessories TIGUA-EX pendant mounting

0 - 90° adjustable attachment for tensioned installation



Material:
Galvanized steel

Code: **811921**

0 - 90° adjustable attachment for double chain and busbar installation



Material:
Galvanized steel

Code: **811919**

Kit with bracket for ceiling mounting



Material:
Galvanized steel

Code: **811916**

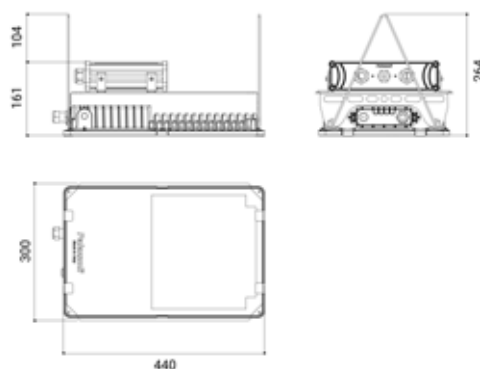
Set of brackets for post installation Ø 60 mm



Material:
Galvanized steel

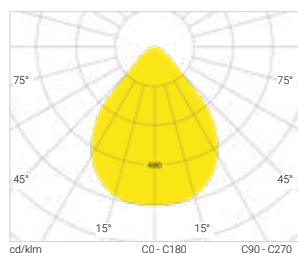
Code: **811920**

TIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

IK08

2 entries on
one endTechnopolymer
cable gland M25

Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment. Recommended installation height: between 4 m and 7 m.
Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D Very high temperature



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
12	47	6980	5808	Glass	124	+70	DALI	9,50	817051EX
12	73	9950	8280	Glass	113	+70	DALI	9,50	817052EX
24	89	13950	11615	Glass	131	+70	DALI	10,10	817053EX
24	141	19850	16560	Glass	117	+60	DALI	10,10	817054EX

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

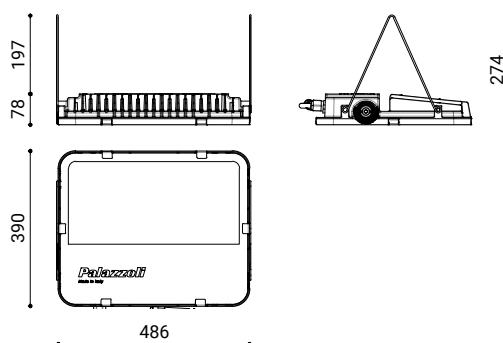
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

ATEX Gas execution	II 2G - Ex eb mb IIC T5 Gb
ATEX Dust execution	II 2D - Ex tb IIIC T 85 °C Db
Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pendant mounting
Ambient operating temperature	-35 °C - +45 °C -35 °C - +70 °C (very high temperature) (-40 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 128 lm/W
Colour temperature	4000 K
Optics features	UV-stabilized polycarbonate lens sealed on the LED module with silicon resin
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 100,000 h Tq=+70 °C (very high temperature) L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	160-277 Vac / 160-250 Vdc 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20 Spring terminals and cable glands M25 (very high temperature)
Max. conductor cross-section	2,5 mm ² 1÷4 mm ² (very high temperature)
Inlet cable diameter	10÷14 mm 12÷18 mm (very high temperature)

Versions with colour temperatures from 3000 K to 6500 K and ambient temperatures up to -40 °C can also be produced.

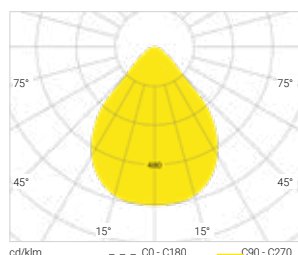
TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment.

Recommended installation height: between 9 m and 15 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

+ 45°C
- 35°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+45	DALI	9,00	818031EX
36	214	29800	24840	Glass	116	+40	DALI	9,00	818032EX
48	181	27800	23115	Glass	128	+35	DALI	9,50	818033EX
48	285	39800	33120	Glass	116	+30	DALI	9,50	818034EX

Accessories TIGUA-EX pendant mounting

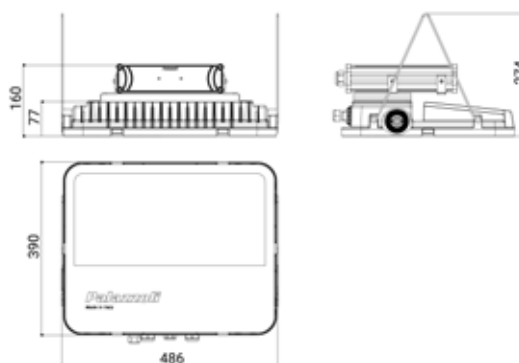
0 - 90° adjustable attachment for double chain installation - M size

Material:
Galvanized steelCode: **819994**

Ceiling mounting bracket kit - M size

Material:
Galvanized steelCode: **819996**

XTIGUA-EX | Zone 1, 2, 21, 22 | pendant mounting



2 entries on
one end



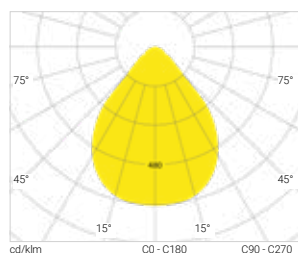
Technopolymer
cable gland M25



Class
I

IP66

IK08



Symmetrical 81° extra wide beam optics

Included: double chain and busbar attachment. Recommended installation height: between 9 m and 15 m.
Power supply in an external aluminium alloy box, pre-wired with the projector and prepared for an enter/exit solution with No. 1 M25 cable gland and No. 1 M25 cap in technopolymer.
The stated flux and power values may be subject to a +/- 7% tolerance.

II 2G - 2D

Very high temperature



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
36	139	20900	17365	Glass	125	+70	DALI	14,00	818051EX
36	214	29800	24840	Glass	116	+60	DALI	14,00	818052EX
48	285	39800	33120	Glass	116	+60	DALI	14,50	818054EX

META150-EX | Zone 2, 21, 22 | pendant mounting



ATEX Gas execution	II 3G - Ex ec mc IIC T6/T5 Gc
ATEX Dust execution	II 2D - Ex tb IIIC T 65/T 75/T 85 °C Db
Body material	Aluminium alloy EN 46100
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Black RAL 9005
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	7J (body) 4J (glass)
Corrosion class	C4-M / C3-H (ISO 9223)
Mounting system	Quick connection for pendant mounting
Ambient operating temperature	-35 °C ÷ +50 °C (-40 °C; +50 °C on request)
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4000 K
Optics features	Anti-aging UV-resistant polycarbonate lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI≥80 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<4%
Luminous flux maintenance	L90 B10 @ 110,000 h Tq=+40 °C L90 B10 @ 230,000 h Tq=+25 °C
Insulation class	I
Supply voltage	220-240 Vac / 180-240 Vdc (84 LED) 110-277 Vac / 110-250 Vdc (112 LED) 160-277 Vac / 160-250 Vdc (140-168 LED) 0/50/60 Hz
Surge protection	8 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	>0,95
Type of power supply	Spring terminals and cable glands M20
Max. conductor cross-section	2,5 mm²
Entry cable diameter	10÷14 mm

Versions with colour temperatures from 3000 K to 6500 K and with ambient temperature up to -40°C and +50°C can also be produced.

TAISBOX-EX series junction boxes certified for zones 1, 2, 21, 22 are available on request, complete with cable glands and clamps for entering cables with larger diameters and/or for entering/exiting solutions.



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

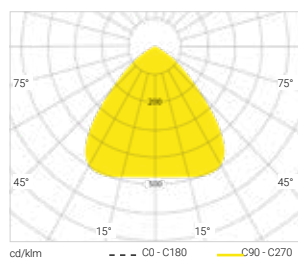
EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

META150-EX | Zone 2, 21, 22 | pendant mounting

Class
I

IP66

IK08



Symmetrical 90° comfort beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 5 m and 8 m.

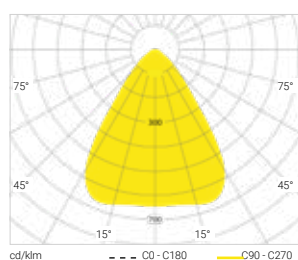
No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
84	60	10296	8748	Glass	146	+50	On-off	8,60	810430EX
112	97	17227	14356	Glass	148	+40	DALI	8,74	810440EX
140	112	20300	16576	Glass	148	+40	DALI	8,94	810450EX
168	134	24200	19832	Glass	148	+40	DALI	9,31	810460EX



Symmetrical 75° medium beam optics

Included: quick connection for pendant mounting.

Recommended installation height: between 5 m and 8 m.

No. 1 M20 cable gland in technopolymer.

The stated flux and power values may be subject to a +/- 7% tolerance.

II 3G - 2D



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Max. ambient temp. (°C)	Version	Weight (Kg)	Code
84	60	10296	8580	Glass	143	+50	On-off	8,60	810431EX
112	97	17227	14065	Glass	145	+40	DALI	8,74	810441EX
140	112	20300	16352	Glass	146	+40	DALI	8,94	810451EX
168	134	24200	19564	Glass	144	+40	DALI	9,31	810461EX



Accessories META150-EX pendant mounting



META150-EX equipped with **bracket for ceiling mounting**

Adjustable bracket for wall, pole and light tower mounting



Material:
Galvanized steel

Code: **810999**

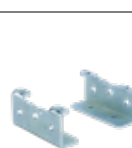
0-90° adjustable catenary wire installation bracket



Material:
Galvanized steel

Code: **810994**

Bracket for double chain and busbar installation



Material:
Galvanized steel

Code: **810997**

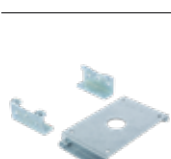
0-90° swivel attachment for double chain and busbar installation



Material:
Galvanized steel

Code: **810996**

Ceiling mounting bracket



Material:
Galvanized steel

Code: **810998**

Bracket for post installation Ø 60 mm



Material:
Galvanized steel

Code: **810995**



Traditional

Painting plants

Metalworking

Woodworking

Food powders

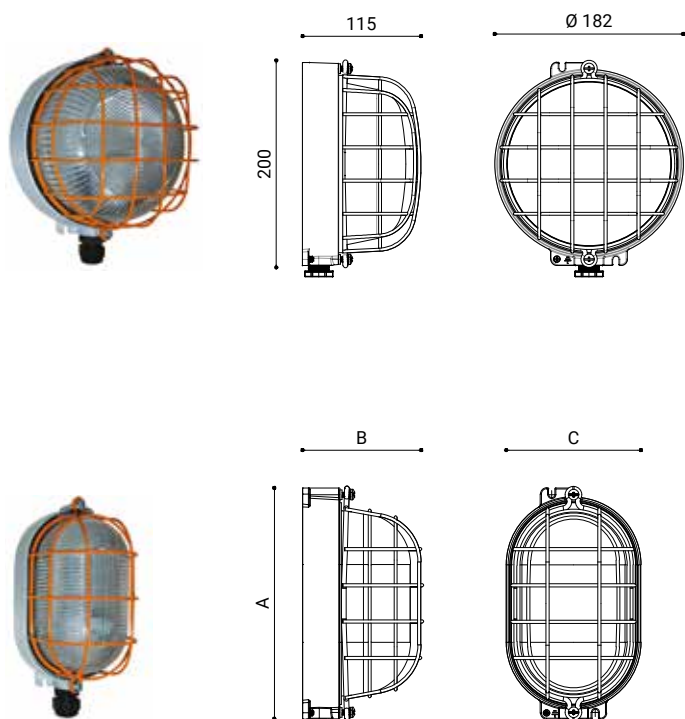
Atex



RINO-EX
E27
zone 22

Page 212

RINO-EX E27 | Zone 22



P max (W)	A (mm)	B (mm)	C (mm)
18	199	119	112
28	226	122	130
53	295	142	170

ATEX Dust execution	II 3D - Ex tc IIIC T 75 °C Dc
Body material	Aluminium alloy
Surface treatment	Fluorozirconate passivation
Diffuser material	Tempered prismatic glass
Protection rating	IP65 as per IEC 60079-0 and 60598-1
Impact resistance	IK07 as per IEC 62262
Mounting system	Prepared for wall installation
Ambient operating temperature	-20 °C - +40 °C
Ambient storage temperature	-40 °C - +70 °C
Lamp holder type	E27 porcelain
Insulation class	I
Supply voltage	230V 50/60Hz
Type of power supply	Spring clamps and cable glands M20
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	10÷14 mm



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (RAEE)

PRODUCT STANDARDS

EN 60079-0
EN 60079-31
EN 60598-1
EN 60598-2-1
EN 63000

RINO-EX E27 | Zone 22



E27

IP65

II 3D
Aluminium alloy

Power (W)	Lamp holder	Inputs No.	Version	Weight (Kg)	Code
18	E27	1	On - off	0,92	831072EX
28	E27	1	On - off	1,28	831172EX
53	E27	1	On - off	2,23	831272EX

II 3D
Aluminium alloy

Power (W)	Lamp holder	Inputs No.	Version	Weight (Kg)	Code
28	E27	1	On - off	0,94	830072EX





Infrastructure

Excellent lighting performance, high mechanical standards and product reliability are the basis of the success of Palazzoli's lighting solutions for roads and tunnels. Thanks to the wide variety of optical solutions developed, which allow for maximum versatility and customised solutions, the company can meet any need, whatever the road cross-sections or installation heights of roads and motorways, roundabouts, junctions and car parks.

The use of the latest LED technology gives the system economic and technical advantages.



Roads

Motorways

Tunnels



FLIGHT page 220



FIT 55 page 232



FLIGHT page 220



FIT 55 page 232



FLIGHT-T54 page 256



TIGUA-T54 page 260



FIT URBAN page 245



XTIGUA-T54 page 262



RINO-T54 page 266



XRINO-T54 page 268



Roundabouts

Cycle paths

Squares and car parks



FLIGHT page 220



FIT 55 page 232



FLIGHT page 220



FIT 55 page 232



FLIGHT page 220



FIT 55 page 232



FIT URBAN page 245



FIT URBAN page 245





Road

Roads

Motorways

Roundabouts

Cycle paths

Squares and car parks



FLIGHT

from 2272 lm to 30110 lm
Page 220



FIT 55

from 2822 lm to 29916 lm
Page 232



FIT URBAN

from 2500 lm to 17787 lm
Page 245

FLIGHT



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

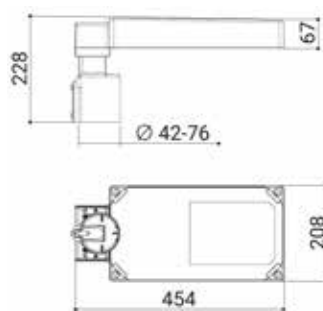
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content (EN44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK09 as per IEC 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pole mount 42÷76 mm Head pole - 5°÷ +20° Arm -20°÷+5°
Ambient operating temperature	-40 °C - +45 °C -40 °C - +55 °C (HT version)
Ambient storage temperature	-40°C - +70°C
Wind-exposed surface	S size side 0,03 m² - front 0,13 m² M size side 0,04 m² - front 0,18 m²
Actual efficacy of the device	Up to 165 lm/W
Colour temperature	4000 K - 3000 K
Optics features	High efficiency reflector in aluminium 99.9% Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI≥70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B10 @ 90,000 h Tq=+55 °C (HT version) L80 B10 @ 150,000 h Tq=+25 °C
Insulation class	II
Supply voltage	200-240V 50-60Hz
Surge protection	10 kV common mode and differential mode as per EN61000-4-5
Power factor	>0,95
Type of power supply	2x1 mm² H05RN-F cable length 70 cm with 2Px2,5 mm² connector
Max. conductor cross-section	2,5 mm²
Entry cable diameter	7÷13 mm

Special versions with virtual midnight, NEMA and ZHAGA sockets can be made.

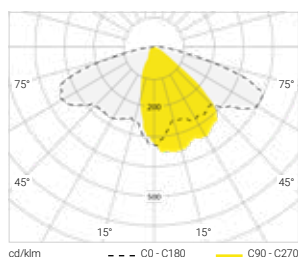
FLIGHT | S size

Flicker
<1%Class
II

IP66

IK09

FOS



STR-ST roadway narrow beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.

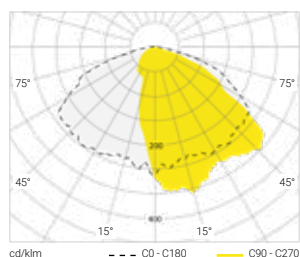
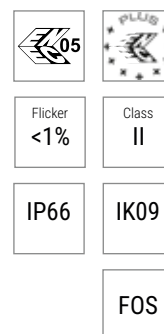
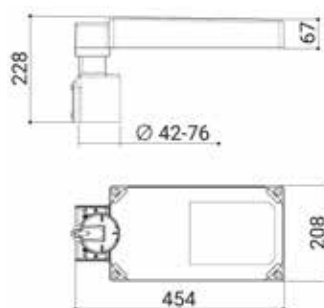
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K 	14	14	2726	2272	Glass	162	On-off	5,00	804131
	14	38	6790	5658	Glass	149	On-off	5,00	804191
	28	28	5520	4600	Glass	165	On-off	5,00	804231
	28	53	9786	8155	Glass	154	On-off	5,00	804271
	28	66	12044	10037	Glass	152	On-off	5,00	804281
High temperature 4000 K 	28	29	5753	4794	Glass	165	On-off	4,50	804211HT
	28	38	7315	6096	Glass	161	On-off	4,50	804221HT
	28	45	8446	7038	Glass	155	On-off	4,50	804231HT
	28	55	10196	8497	Glass	153	On-off	4,50	804241HT
3000 K 	14	38	6427	5356	Glass	141	On-off	5,00	803191
	28	53	9781	8151	Glass	154	On-off	5,00	803271
	28	66	11178	9315	Glass	141	On-off	5,00	803281

FLIGHT | S size



STR-AM roadway wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

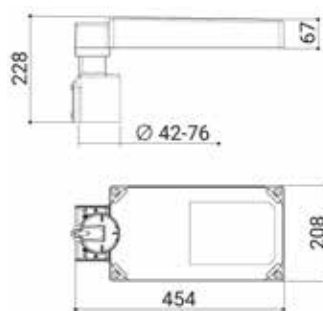
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K + 45°C - 40°C	14	14	2726	2272	Glass	162	On-off	5,00	804130
	14	38	6790	5658	Glass	149	On-off	5,00	804190
	28	28	5520	4600	Glass	165	On-off	5,00	804230
	28	53	9786	8155	Glass	154	On-off	5,00	804270
	28	66	12044	10037	Glass	152	On-off	5,00	804280
High temperature 4000 K + 55°C - 40°C	28	29	5753	4794	Glass	165	On-off	4,50	804210HT
	28	38	7315	6096	Glass	161	On-off	4,50	804220HT
	28	45	8446	7038	Glass	155	On-off	4,50	804230HT
	28	55	10196	8497	Glass	153	On-off	4,50	804240HT
3000 K + 45°C - 40°C	14	38	6427	5356	Glass	141	On-off	5,00	803190
	28	53	9781	8151	Glass	154	On-off	5,00	803270
	28	66	11178	9315	Glass	141	On-off	5,00	803280

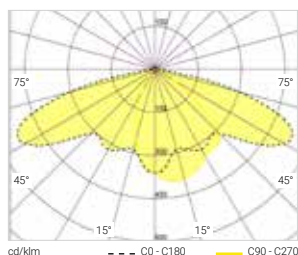
FLIGHT | S size

Flicker
<1%Class
II

IP66

IK09

FOS



Cycle lane beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.

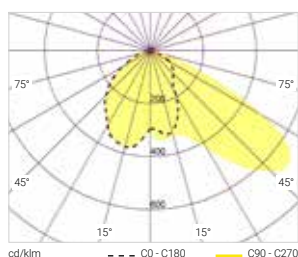
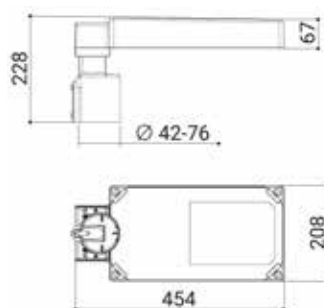
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K 	14	16	2854	2378	Glass	149	On-off	5,00	804142
	28	28	6022	4600	Glass	164	On-off	5,00	804242
3000 K 	14	16	2795	2329	Glass	146	On-off	5,00	803142
	28	28	5904	4300	Glass	154	On-off	5,00	803242

FLIGHT | S size



Left crosswalks beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

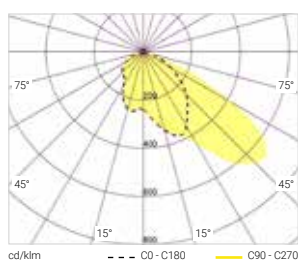
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K  + 45°C - 40°C	20	29	5150	4292	Glass	148	On-off	5,00	804113
	20	58	9744	8120	Glass	140	On-off	5,00	804123

3000 K  + 45°C - 40°C	20	58	8700	7250	Glass	125	On-off	5,00	803123
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Right crosswalks beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

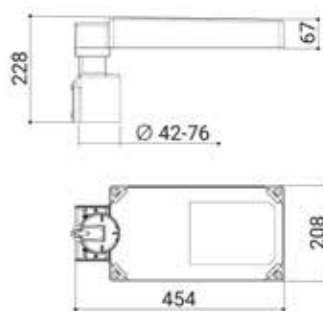
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K  + 45°C - 40°C	20	29	5150	4292	Glass	148	On-off	5,00	804114
	20	58	9744	8120	Glass	140	On-off	5,00	804124

3000 K  + 45°C - 40°C	20	58	8700	7250	Glass	125	On-off	5,00	803124
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FLIGHT | S size

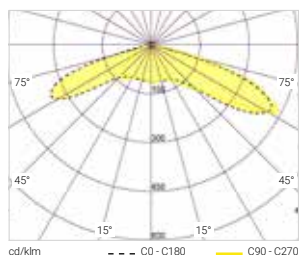


Flicker
<1%

Class
II

IP66

IK09



Roadway 45° wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

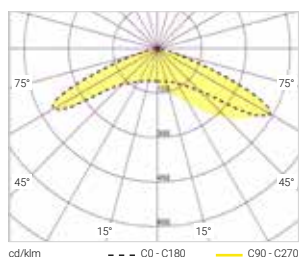
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code	
4000 K	20	29	5150	4292	Glass	148	On-off	5,00	804115
+ 45°C - 40°C	20	58	9744	8120	Glass	140	On-off	5,00	804125



3000 K	20	58	8700	7250	Glass	125	On-off	5,00	803125
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Roadway 60° wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.



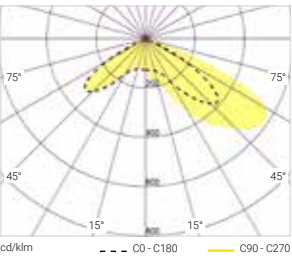
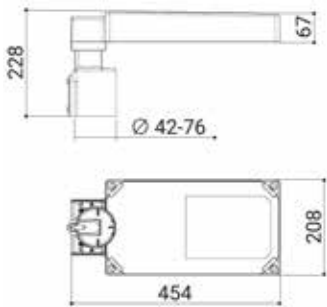
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code	
4000 K	20	29	5150	4292	Glass	148	On-off	5,00	804116
 + 45°C - 40°C	20	58	9744	8120	Glass	140	On-off	5,00	804126



3000 K	20	58	8700	7250	Glass	125	On-off	5,00	803126
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FLIGHT | S size

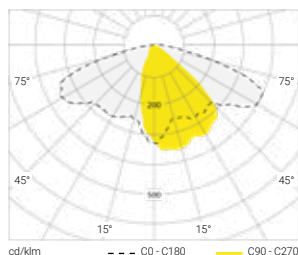
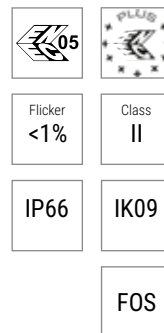
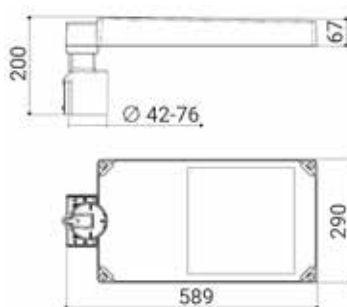


Large areas 60° extra wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
PMMA lenses.
The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K 	20	29	5150	4292	Glass	148	On-off	5,00	804117
	20	58	9744	8120	Glass	140	On-off	5,00	804127
3000 K 	20	58	8700	7250	Glass	125	On-off	5,00	803127

FLIGHT | M size



STR-ST roadway narrow beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	86	16118	13432	Glass	156	On-off	7,50	804371
42	113	20776	17313	Glass	153	On-off	7,50	804391
56	151	27702	23085	Glass	153	On-off	7,50	804491
70	164	30110	25092	Glass	153	On-off	7,50	804581
84	197	36132	30110	Glass	153	On-off	7,50	804681

High temperature 4000 K



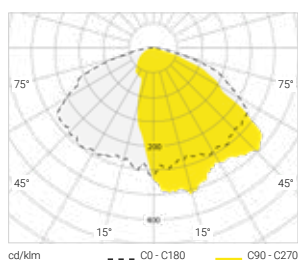
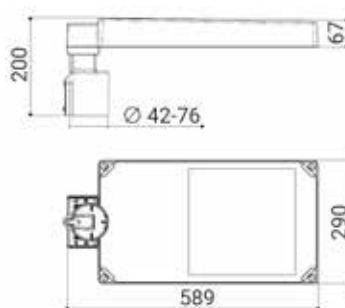
56	65	13000	10900	Glass	166	On-off	7,50	804411HT
56	72	14400	12000	Glass	166	On-off	7,50	804421HT
56	91	17100	14300	Glass	157	On-off	7,50	804431HT
84	93	18600	15500	Glass	165	On-off	7,50	804611HT
84	113	22300	18500	Glass	164	On-off	7,50	804621HT
84	136	25200	21000	Glass	154	On-off	7,50	804631HT

3000 K



42	86	15292	12743	Glass	148	On-off	7,50	803371
42	113	19283	16069	Glass	142	On-off	7,50	803391
56	151	25710	21425	Glass	142	On-off	7,50	803491
70	164	27946	23288	Glass	142	On-off	7,50	803581
84	197	33535	27946	Glass	142	On-off	7,50	803681

FLIGHT | M size



STR-AM roadway wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

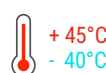


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	86	16118	13432	Glass	156	On-off	7,50	804370
42	113	20776	17313	Glass	153	On-off	7,50	804390
56	151	27702	23085	Glass	153	On-off	7,50	804490
70	164	30110	25092	Glass	153	On-off	7,50	804580
84	197	36132	30110	Glass	153	On-off	7,50	804680

High temperature
4000 K

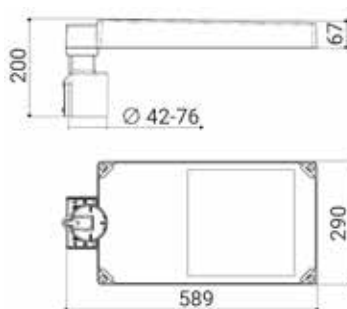
56	65	13000	10900	Glass	166	On-off	7,50	804410HT
56	72	14400	12000	Glass	166	On-off	7,50	804420HT
56	91	17100	14300	Glass	157	On-off	7,50	804430HT
42	93	18600	15500	Glass	165	On-off	7,50	804610HT
42	113	22300	18500	Glass	164	On-off	7,50	804620HT
42	136	25200	21000	Glass	154	On-off	7,50	804630HT

3000 K



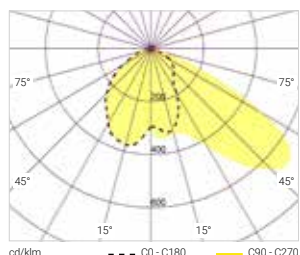
42	86	15292	12743	Glass	148	On-off	7,50	803370
42	113	19283	16069	Glass	142	On-off	7,50	803390
56	151	25710	21425	Glass	142	On-off	7,50	803490
70	164	27946	23288	Glass	142	On-off	7,50	803580
84	197	33535	27946	Glass	142	On-off	7,50	803680

FLIGHT | M size

Flicker
<1%Class
II

IP66

IK09



Left crosswalks beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

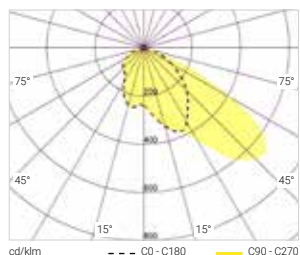


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	82	14742	12285	Glass	150	On-off	7,50	804173
80	117	21341	17784	Glass	152	On-off	7,50	804253
80	164	29484	24570	Glass	150	On-off	7,50	804273

3000 K



40	82	14054	11712	Glass	143	On-off	7,50	803173
80	117	20358	16965	Glass	145	On-off	7,50	803253
80	164	28108	23423	Glass	143	On-off	7,50	803273



Right crosswalks beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



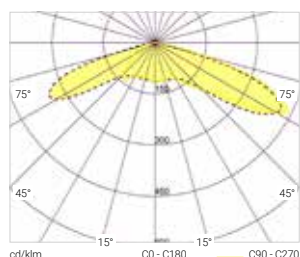
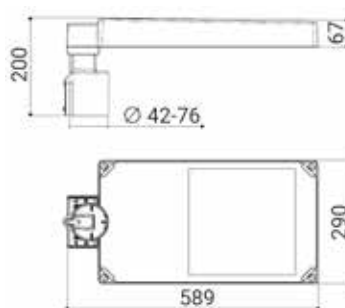
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	82	14742	12285	Glass	150	On-off	7,50	804174
80	117	21341	17784	Glass	152	On-off	7,50	804254
80	164	29484	24570	Glass	150	On-off	7,50	804274

3000 K



40	82	14054	11712	Glass	143	On-off	7,50	803174
80	117	20358	16965	Glass	145	On-off	7,50	803254
80	164	28108	23423	Glass	143	On-off	7,50	803274

FLIGHT | M size



Roadway 45° wide beam optics

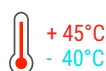
Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

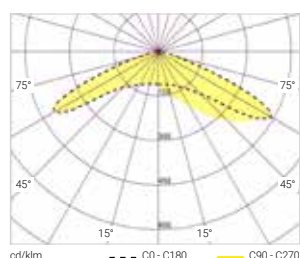


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	82	14742	12285	Glass	150	On-off	7,50	804175
80	117	21341	17784	Glass	152	On-off	7,50	804255
80	164	29484	24570	Glass	150	On-off	7,50	804275

3000 K



40	82	14054	11712	Glass	143	On-off	7,50	803175
80	117	20358	16965	Glass	145	On-off	7,50	803255
80	164	28108	23423	Glass	143	On-off	7,50	803275



Roadway 60° wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



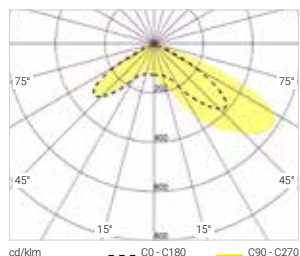
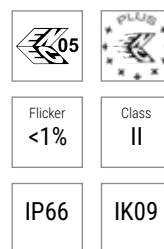
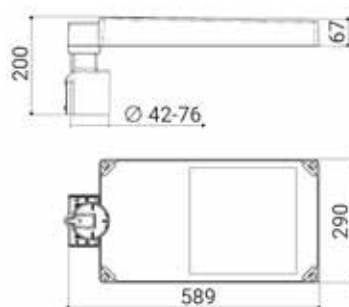
40	82	14742	12285	Glass	150	On-off	7,50	804176
80	117	21341	17784	Glass	152	On-off	7,50	804256
80	164	29484	24570	Glass	150	On-off	7,50	804276

3000 K



40	82	14054	11712	Glass	143	On-off	7,50	803176
80	117	20358	16965	Glass	145	On-off	7,50	803256
80	164	28108	23423	Glass	143	On-off	7,50	803276

FLIGHT | M size



Large areas 60° extra wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4000 K 	40	82	14742	12285	Glass	150	On-off	7,50	804177
	80	117	22464	18720	Glass	160	On-off	7,50	804257
	80	164	31056	25880	Glass	158	On-off	7,50	804277
3000 K 	40	82	14054	11712	Glass	143	On-off	7,50	803177
	80	117	21341	17784	Glass	152	On-off	7,50	803257
	80	164	29484	24570	Glass	150	On-off	7,50	803277

Accessories FLIGHT

Single arm



Material:
Painted galvanized steel

Code: **834901**

Double arm



Material:
Painted galvanized steel

Code: **834902**

Wall Mounting Bracket



Material:
Painted galvanized steel

Code: **834903**

FIT 55



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

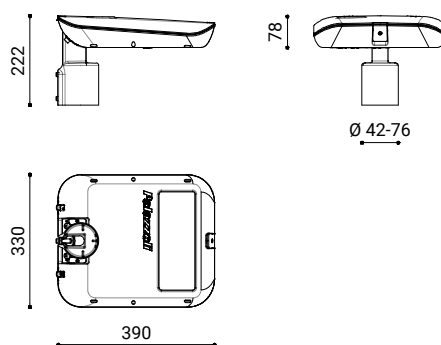
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy (EN46100)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Pole mount 42÷76 mm Head pole - 5°÷ +20° Arm -20°÷+5°
Ambient operating temperature	-40 °C - +40 °C -40 °C - +55 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Wind-exposed surface	S size side 0,03 m² - front 0,13 m² M size side 0,04 m² - front 0,18 m²
Actual efficacy of the device	Up to 166 lm/W
Colour temperature	4000 K - 3000 K
Optics features	High efficiency reflector in aluminium 99.9%
Colour rendering index values	CRI≥70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B10 @ 90,000 h Tq=+55 °C (HT version) L80 B10 @ 150,000 h Tq=+25 °C
Insulation class	II - I
Supply voltage	200-240V 50-60Hz
Surge protection	10 kV common mode and 6 kV differential mode as per EN61000-4-5
Power factor	>0,95
Type of power supply	Cable gland M20 with internal disconnect for connection
Max. conductor cross-section	2,5 mm²
Entry cable diameter	7÷13 mm

Special versions can be made by combining the optics, power supplies and colour temperatures. Versions with NEMA, ZHAGA socket and CRI 80 are also available.

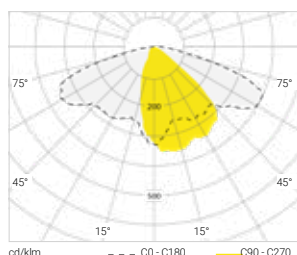
FIT 55 | S size

Flicker
<1%

IP66

IK08

FOS

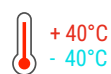


STR-ST roadway narrow beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening.

Aluminium reflector. FOS on page 70.

The stated flux and power values may be subject to a +/- 7% tolerance.

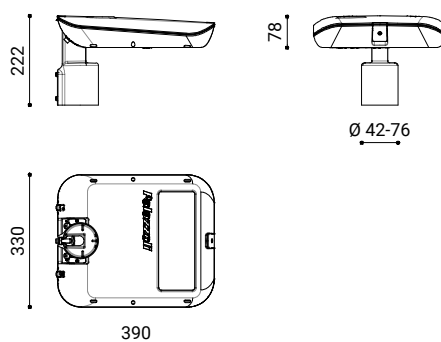
4000 K
Class II

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3386	2822	Glass	166	Virtual midnight	4,50	834111MV
14	34	5983	4986	Glass	147	Virtual midnight	4,50	834121MV
14	54	8693	7244	Glass	134	Virtual midnight	4,50	834131MV
14	17	3386	2822	Glass	166	On-off	4,50	834111
14	34	5983	4986	Glass	147	On-off	4,50	834121
14	54	8693	7244	Glass	134	On-off	4,50	834131
28	37	6906	5755	Glass	156	Virtual midnight	5,00	834211MV
28	69	11966	9972	Glass	145	Virtual midnight	5,00	834221MV
28	86	14520	12100	Glass	141	Virtual midnight	5,00	834231MV
28	37	6906	5755	Glass	156	On-off	5,00	834211
28	69	11966	9972	Glass	145	On-off	5,00	834221
28	86	14520	12100	Glass	141	On-off	5,00	834231

High temperature
4000 K
Class II

28	29	5753	4794	Glass	165	Virtual midnight	4,50	834211HT
28	38	7315	6096	Glass	161	Virtual midnight	4,50	834221HT
28	46	8446	7038	Glass	155	Virtual midnight	4,50	834231HT
28	56	10196	8497	Glass	153	Virtual midnight	4,50	834241HT

FIT 55 | S size

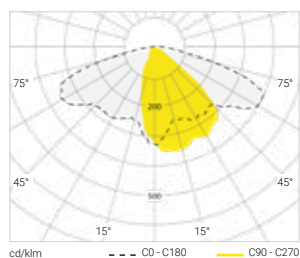


Flicker
<1%

IP66

IK08

FOS

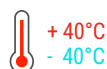


STR-ST roadway narrow beam optics

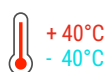
Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening.

Aluminium reflector. FOS on page 70.

The stated flux and power values may be subject to a +/- 7% tolerance.

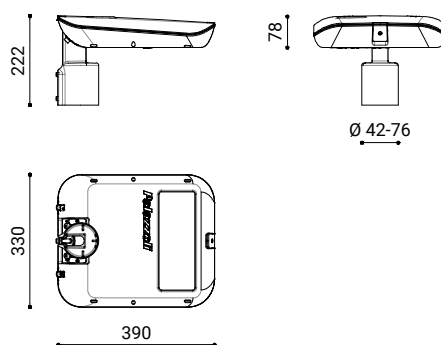
4000 K
Class I

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3386	2822	Glass	166	Virtual midnight	4,50	854111MV
14	35	5983	4986	Glass	142	Virtual midnight	4,50	854121MV
14	54	8693	7244	Glass	134	Virtual midnight	4,50	854131MV
28	37	6906	5755	Glass	156	Virtual midnight	5,00	854211MV
28	69	11966	9972	Glass	145	Virtual midnight	5,00	854221MV
28	86	14520	12100	Glass	141	Virtual midnight	5,00	854231MV

3000 K
Class II

14	34	5342	4452	Glass	131	Virtual midnight	4,50	833121MV
14	54	7764	6470	Glass	122	Virtual midnight	4,50	833131MV
28	69	11248	9373	Glass	136	Virtual midnight	5,00	833221MV
28	86	13644	11370	Glass	132	Virtual midnight	5,00	833231MV

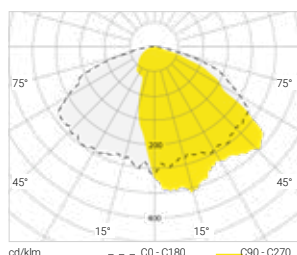
FIT 55 | S size

Flicker
<1%

IP66

IK08

FOS



STR-AM roadway wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening. Aluminium reflector. FOS on page 70.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K
Class II



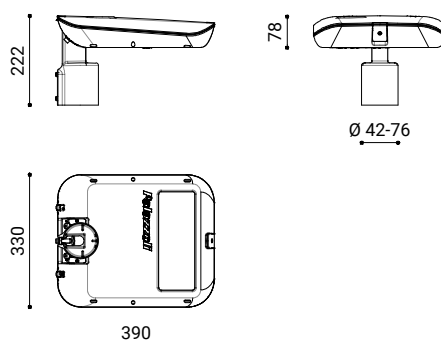
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3386	2822	Glass	166	Virtual midnight	4,50	834110MV
14	34	5983	4986	Glass	147	Virtual midnight	4,50	834120MV
14	54	8693	7244	Glass	134	Virtual midnight	4,50	834130MV
14	17	3386	2822	Glass	166	On-off	4,50	834110
14	34	5983	4986	Glass	147	On-off	4,50	834120
14	54	8693	7244	Glass	134	On-off	4,50	834130
28	37	6906	5755	Glass	156	Virtual midnight	5,00	834210MV
28	69	11966	9972	Glass	145	Virtual midnight	5,00	834220MV
28	86	14520	12100	Glass	141	Virtual midnight	5,00	834230MV
28	37	6906	5755	Glass	156	On-off	5,00	834210
28	69	11966	9972	Glass	145	On-off	5,00	834220
28	86	14520	12100	Glass	141	On-off	5,00	834230

High temperature
4000 K
Class II



28	29	5753	4794	Glass	165	Virtual midnight	4,50	834210HT
28	38	7315	6096	Glass	161	Virtual midnight	4,50	834220HT
28	46	8446	7038	Glass	155	Virtual midnight	4,50	834230HT
28	56	10196	8497	Glass	153	Virtual midnight	4,50	834240HT

FIT 55 | S size

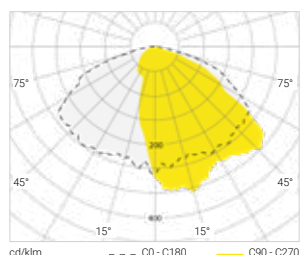


Flicker
<1%

IP66

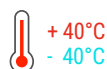
IK08

FOS

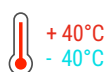


STR-AM roadway wide beam optics

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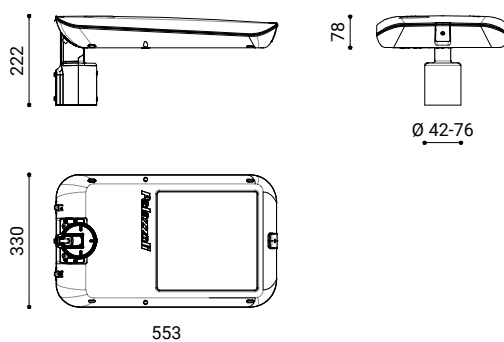
4000 K
Class I

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3386	2822	Glass	166	Virtual midnight	4,50	854110MV
14	34	5983	4986	Glass	147	Virtual midnight	4,50	854120MV
14	54	8693	7244	Glass	134	Virtual midnight	4,50	854130MV
28	37	6906	5755	Glass	156	Virtual midnight	5,00	854210MV
28	69	11966	9972	Glass	145	Virtual midnight	5,00	854220MV
28	86	14520	12100	Glass	141	Virtual midnight	5,00	854230MV

3000 K
Class II

14	34	5342	4452	Glass	131	Virtual midnight	4,50	833120MV
14	54	7764	6470	Glass	122	Virtual midnight	4,50	833130MV
28	69	11248	9373	Glass	136	Virtual midnight	5,00	833220MV
28	86	13644	11370	Glass	132	Virtual midnight	5,00	833230MV

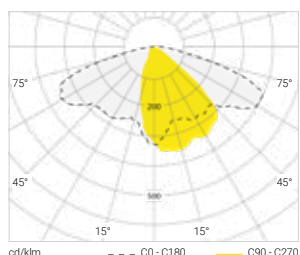
FIT 55 | M size

Flicker
<1%

IP66

IK08

FOS



STR-ST roadway narrow beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening. Aluminium reflector. FOS on page 70.

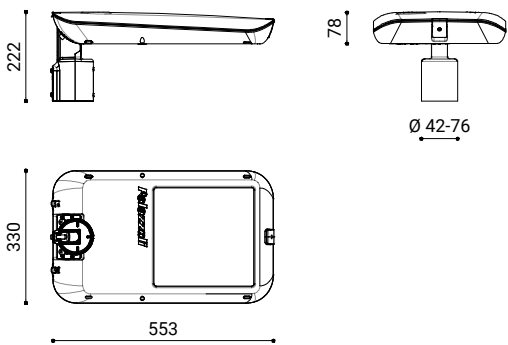
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K
Class II



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	54	10160	8467	Glass	157	Virtual midnight	7,50	834311MV
42	104	17950	14958	Glass	144	Virtual midnight	7,50	834321MV
42	145	24060	20050	Glass	138	Virtual midnight	7,50	834331MV
42	54	10160	8467	Glass	157	On-off	7,50	834311
42	104	17950	14958	Glass	144	On-off	7,50	834321
42	145	24060	20050	Glass	138	On-off	7,50	834331
56	72	13547	11289	Glass	157	Virtual midnight	8,00	834411MV
56	139	23933	19944	Glass	143	Virtual midnight	8,00	834421MV
56	177	29352	24460	Glass	139	Virtual midnight	8,00	834431MV
56	72	13547	11289	Glass	157	On-off	8,00	834411
56	139	23933	19944	Glass	143	On-off	8,00	834421
56	177	29352	24460	Glass	139	On-off	8,00	834431
70	92	16933	14111	Glass	154	Virtual midnight	8,50	834511MV
70	128	23194	19328	Glass	151	Virtual midnight	8,50	834521MV
70	174	29916	24930	Glass	144	Virtual midnight	8,50	834531MV
70	92	16933	14111	Glass	154	On-off	8,50	834511
70	128	23194	19328	Glass	151	On-off	8,50	834521
70	174	29916	24930	Glass	144	On-off	8,50	834531
84	101	18665	15554	Glass	154	Virtual midnight	9,00	834611MV
84	153	28448	23707	Glass	155	Virtual midnight	9,00	834621MV
84	209	35899	29916	Glass	143	Virtual midnight	9,00	834631MV

FIT 55 | M size

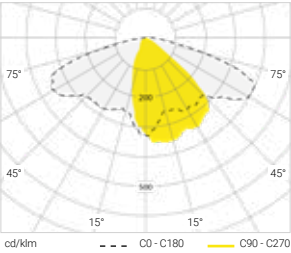


Flicker
<1%

IP66

IK08

FOS



STR-ST roadway narrow beam optics

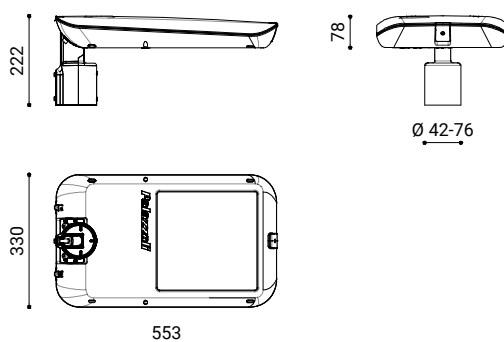
Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application.
Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening.
Aluminium reflector. FOS on page 70.
The stated flux and power values may be subject to a +/- 7% tolerance.

High temperature
4000 K
Class II



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
56	66	12064	10053	Glass	153	Virtual midnight	7,50	834411HT
56	72	13547	11289	Glass	152	Virtual midnight	7,50	834421HT
56	91	16921	14101	Glass	154	Virtual midnight	7,50	834431HT
84	94	17030	14192	Glass	152	Virtual midnight	7,50	834611HT
84	113	20482	17068	Glass	151	Virtual midnight	7,50	834621HT
84	136	25493	21244	Glass	156	Virtual midnight	7,50	834631HT

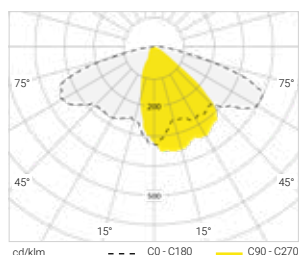
FIT 55 | M size

Flicker
<1%

IP66

IK08

FOS



STR-ST roadway narrow beam optics

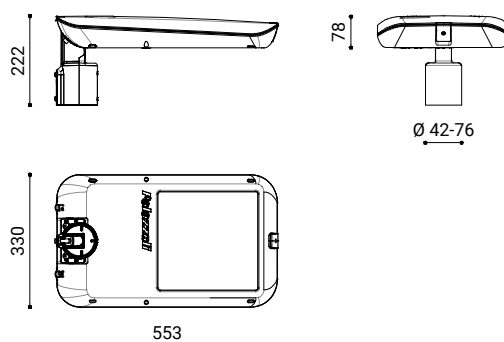
Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnector to allow safe opening. Aluminium reflector. FOS on page 70.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K
Class I

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	54	10160	8467	Glass	157	Virtual midnight	7,50	854311MV
42	104	17950	14958	Glass	144	Virtual midnight	7,50	854321MV
42	145	24060	20050	Glass	138	Virtual midnight	7,50	854331MV
56	72	13547	11289	Glass	157	Virtual midnight	8,00	854411MV
56	139	23933	19944	Glass	143	Virtual midnight	8,00	854421MV
56	177	29352	24460	Glass	139	Virtual midnight	8,00	854431MV
70	91,5	16933	14111	Glass	154	Virtual midnight	8,50	854511MV
70	128	23194	19328	Glass	151	Virtual midnight	8,50	854521MV
70	174	29916	24930	Glass	144	Virtual midnight	8,50	854531MV
84	101	18665	15554	Glass	154	Virtual midnight	9,00	854611MV
84	153	28448	23707	Glass	155	Virtual midnight	9,00	854621MV
84	209	35899	29916	Glass	143	Virtual midnight	9,00	854631MV

FIT 55 | M size

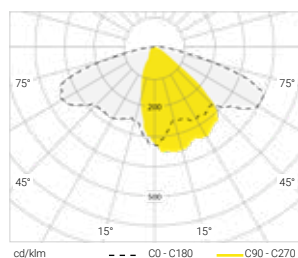


Flicker
<1%

IP66

IK08

FOS



STR-ST roadway narrow beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening.

Aluminium reflector. FOS on page 70.

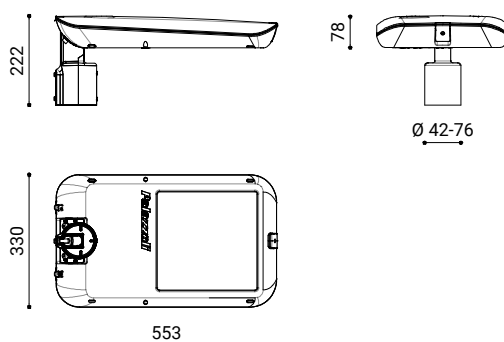
The stated flux and power values may be subject to a +/- 7% tolerance.

3000 K
Class II



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (kg)	Code
42	104	16872	14060	Glass	135	Virtual midnight	7,50	833321MV
42	145	22620	18850	Glass	130	Virtual midnight	7,50	833331MV
56	139	22728	18940	Glass	136	Virtual midnight	8,00	833421MV
56	177	27884	23237	Glass	132	Virtual midnight	8,00	833431MV
70	128	22522	18768	Glass	147	Virtual midnight	8,50	833521MV
70	174	28420	23683	Glass	136	Virtual midnight	8,50	833531MV
84	153	27025	22521	Glass	147	Virtual midnight	9,00	833621MV
84	209	34104	28420	Glass	136	Virtual midnight	9,00	833631MV

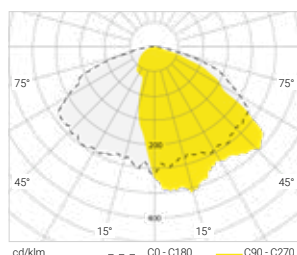
FIT 55 | M size

Flicker
<1%

IP66

IK08

FOS



STR-AM roadway wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnector to allow safe opening. Aluminium reflector. FOS on page 70.

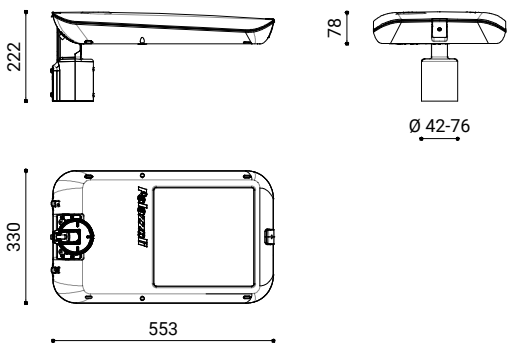
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K
Class II



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	54	10160	8467	Glass	157	Virtual midnight	7,50	834310MV
42	104	17950	14958	Glass	144	Virtual midnight	7,50	834320MV
42	145	24060	20050	Glass	138	Virtual midnight	7,50	834330MV
42	54	10160	8467	Glass	157	On-off	7,50	834310
42	104	17950	14958	Glass	144	On-off	7,50	834320
42	145	24060	20050	Glass	138	On-off	7,50	834330
56	72	13547	11289	Glass	157	Virtual midnight	8,00	834410MV
56	139	23933	19944	Glass	143	Virtual midnight	8,00	834420MV
56	177	29352	24460	Glass	139	Virtual midnight	8,00	834430MV
56	72	13547	11289	Glass	157	On-off	8,00	834410
56	139	23933	19944	Glass	143	On-off	8,00	834420
56	177	29352	24460	Glass	139	On-off	8,00	834430
70	92	16933	14111	Glass	154	Virtual midnight	8,50	834510MV
70	128	23194	19328	Glass	151	Virtual midnight	8,50	834520MV
70	174	29916	24930	Glass	144	Virtual midnight	8,50	834530MV
70	92	16933	14111	Glass	154	On-off	8,50	834510
70	128	23194	19328	Glass	151	On-off	8,50	834520
70	174	29916	24930	Glass	144	On-off	8,50	834530
84	101	18665	15554	Glass	154	Virtual midnight	9,00	834610MV
84	153	28448	23707	Glass	155	Virtual midnight	9,00	834620MV
84	209	35899	29916	Glass	143	Virtual midnight	9,00	834630MV

FIT 55 | M size

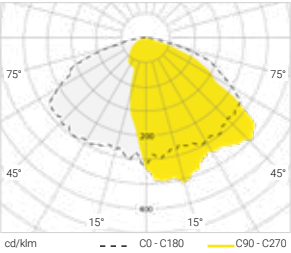


Flicker
<1%

IP66

IK08

FOS



STR-AM roadway wide beam optics

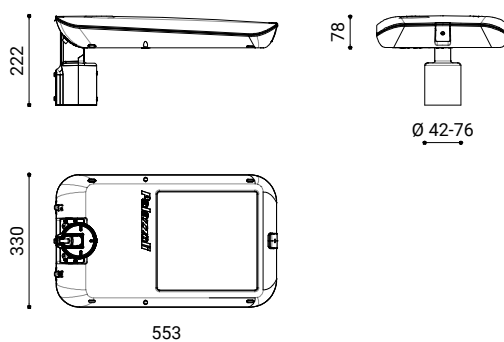
Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening. Aluminium reflector. FOS on page 70. The stated flux and power values may be subject to a +/- 7% tolerance.

High temperature
4000 K
Class II



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
56	66	12064	10053	Glass	153	Virtual midnight	7,50	834410HT
56	72	13547	11289	Glass	152	Virtual midnight	7,50	834420HT
56	91	16921	14101	Glass	154	Virtual midnight	7,50	834430HT
84	94	17030	14192	Glass	152	On-off	7,50	834610HT
84	113	20482	17068	Glass	151	On-off	7,50	834620HT
84	136	25493	21244	Glass	156	On-off	7,50	834630HT

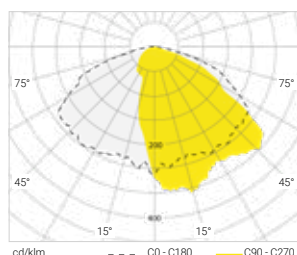
FIT 55 | M size

Flicker
<1%

IP66

IK08

FOS



STR-AM roadway wide beam optics

Included: adjustable pole attachment from -5° to +20° for application at the end of the pole; from -20° to +5° for arm application. Suitable for poles from 42 mm to 76 mm in diameter. Disconnecter to allow safe opening. Aluminium reflector. FOS on page 70.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K
Class I

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
42	54	10160	8467	Glass	157	Virtual midnight	7,50	854310MV
42	104	17950	14958	Glass	144	Virtual midnight	7,50	854320MV
42	145	24060	20050	Glass	138	Virtual midnight	7,50	854330MV
56	72	13547	11289	Glass	157	Virtual midnight	8,00	854410MV
56	139	23933	19944	Glass	143	Virtual midnight	8,00	854420MV
56	177	29352	24460	Glass	139	Virtual midnight	8,00	854430MV
70	91,5	16933	14111	Glass	154	Virtual midnight	8,50	854510MV
70	128	23194	19328	Glass	151	Virtual midnight	8,50	854520MV
70	174	29916	24930	Glass	144	Virtual midnight	8,50	854530MV
84	101	18665	15554	Glass	154	Virtual midnight	9,00	854610MV
84	153	28448	23707	Glass	155	Virtual midnight	9,00	854620MV
84	209	35899	29916	Glass	143	Virtual midnight	9,00	854630MV

3000 K
Class II

42	104	16872	14060	Glass	135	Virtual midnight	7,50	833320MV
42	145	22620	18850	Glass	130	Virtual midnight	7,50	833330MV
56	139	22728	18940	Glass	136	Virtual midnight	8,00	833420MV
56	177	27884	23237	Glass	132	Virtual midnight	8,00	833430MV
70	128	22522	18768	Glass	147	Virtual midnight	8,50	833520MV
70	174	28420	23683	Glass	136	Virtual midnight	8,50	833530MV
84	153	27025	22521	Glass	147	Virtual midnight	9,00	833620MV
84	209	34104	28420	Glass	136	Virtual midnight	9,00	833630MV

Accessories FIT 55



FIT 55 with double arm

Single Arm		Double Arm		Wall Mounting Bracket	
	Material: Painted galvanized steel		Material: Painted galvanized steel		Material: Painted galvanized steel
	Code: 834901		Code: 834902		Code: 834903

FIT URBAN



WARRANTY
UP TO 7 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

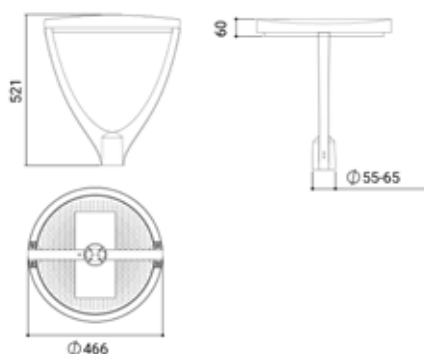
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content (EN44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Head pole - 5° ÷ +20° Arm -20° ÷ +5° Tensioned Pendant mounting
Ambient operating temperature	-40 °C - +45 °C -40 °C - +60 °C (HT version)
Ambient storage temperature	-40 °C - +70 °C
Wind-exposed surface	Head pole side 0,09 m² - front 0,19 m² Arm, catenary wire, pendant mounting side 0,04 m² - front 0,19 m²
Actual efficacy of the device	Up to 170 lm/W
Colour temperature	4000 K - 3000 K
Optics features	High efficiency reflector in aluminium 99.9% non-ageing UV resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 70 as per EN62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B10 @ 90,000 h Tq=+55 °C (HT version) L80 B10 @ 150,000 h Tq=+25 °C
Insulation class	II
Supply voltage	200-240V 50-60Hz
Surge protection	10 kV common mode and differential mode as per EN61000-4-5
Power factor	>0,95
Type of power supply	2x1 mm² H05RN-F cable length 70 cm with 2Px2,5 mm² connector
Max. conductor cross-section	2,5 mm²
Entry cable diameter	7÷13 mm

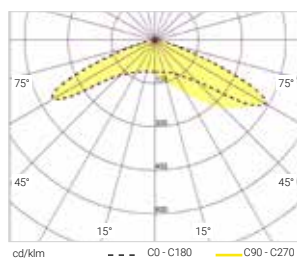
Special versions can be made by combining the optics, power supplies and colour temperatures. Versions with NEMA, ZHAGA socket and CRI 80 are also available.

FIT URBAN pole-top

Flicker
<1%Class
II

IP66

IK08



Roadway 60° wide beam optics

Included: head pole attachment. Suitable for poles with a diameter from 55 mm to 65 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	16	3000	2500	Glass	156	On-off	8,60	864116
20	29	5150	4292	Glass	148	On-off	8,60	864126
20	58	9744	8120	Glass	140	On-off	8,60	864136
40	91	14742	12285	Glass	150	On-off	8,60	864246
40	121	19488	16240	Glass	140	On-off	8,60	864256

High temperature
4000 K+ 60°C
- 40°C

40	30	5016	4180	Glass	140	On-off	8,60	864136HT
40	60	9936	8280	Glass	138	On-off	8,60	864256HT

3000 K

+ 45°C
- 40°C

20	29	4837	4031	Glass	139	On-off	8,60	863126
20	58	9240	7700	Glass	133	On-off	8,60	863136
40	91	14280	11900	Glass	131	On-off	8,60	863246

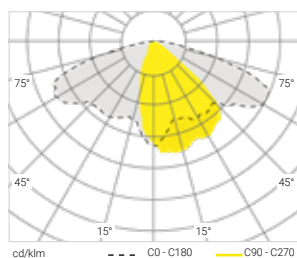
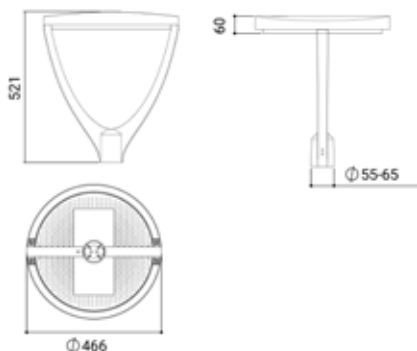
FIT URBAN pole-top

Flicker
<1%Class
II

IP66

IK08

FOS



STR-ST roadway narrow beam optics

Included: head pole attachment. Suitable for poles with a diameter from 55 mm to 65 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
Aluminium reflector. FOS on page 76.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3400	2822	Glass	166	On-off	8,60	864111
14	34	6000	4998	Glass	147	On-off	8,60	864121
14	54	8700	7236	Glass	134	On-off	8,60	864131
28	69	12000	9970	Glass	145	On-off	8,60	864241
28	86	14600	12126	Glass	141	On-off	8,60	864251

High temperature
4000 K

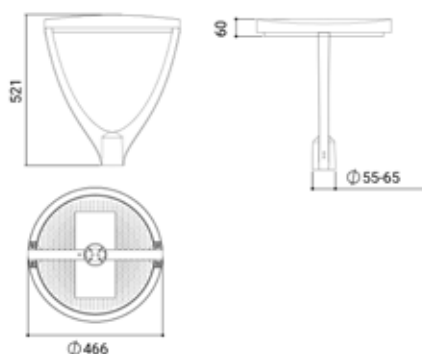
14	22	4200	3498	Glass	159	On-off	8,60	864131HT
28	43	8300	6858	Glass	160	On-off	8,60	864251HT

3000 K



14	54	7980	6642	Glass	123	On-off	8,60	863131
28	69	11300	9384	Glass	136	On-off	8,60	863241
28	86	13800	11438	Glass	133	On-off	8,60	863251

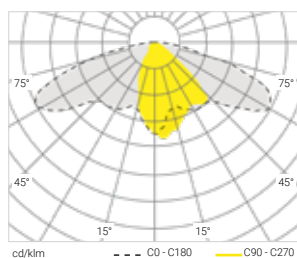
FIT URBAN pole-top

Flicker
<1%Class
II

IP66

IK08

FOS



Cycle lane beam optics

Included: head pole attachment. Suitable for poles with a diameter from 55 mm to 65 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
Aluminium reflector. FOS on page 76.
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3400	2822	Glass	166	On-off	8,60	864112
14	34	6000	4998	Glass	147	On-off	8,60	864122
14	54	8700	7236	Glass	134	On-off	8,60	864132
28	69	12000	9970	Glass	145	On-off	8,60	864242

3000 K



14	17	3120	2590	Glass	152	On-off	8,60	863112
14	34	5500	4590	Glass	135	On-off	8,60	863122
14	54	7980	6642	Glass	123	On-off	8,60	863132
28	69	11300	9384	Glass	136	On-off	8,60	863242

FIT URBAN pole-top

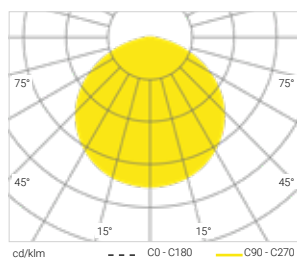
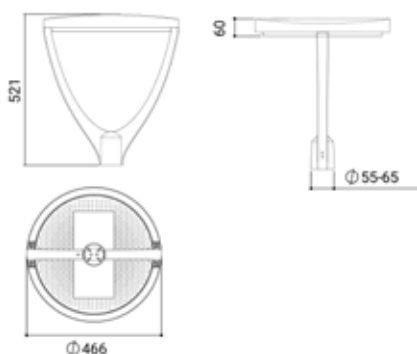


Flicker
<1%

Class
II

IP66

IK08



Symmetrical 120° beam optics

Included: head pole attachment. Suitable for poles with a diameter from 55 mm to 65 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	16	3000	2720	Glass	170	On-off	8,60	864110
20	29	5150	4640	Glass	160	On-off	8,60	864120
20	58	9744	8932	Glass	154	On-off	8,60	864130
40	91	14742	13468	Glass	148	On-off	8,60	864240
40	121	19488	17787	Glass	147	On-off	8,60	864250

High temperature
4000 K

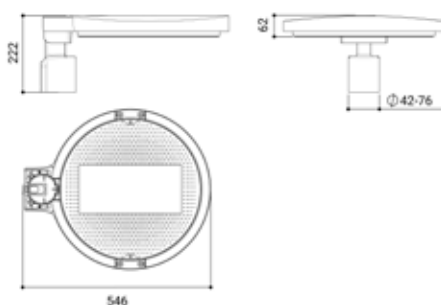
40	30	5016	4620	Glass	154	On-off	8,60	864130HT
40	60	9936	9060	Glass	151	On-off	8,60	864250HT

3000 K



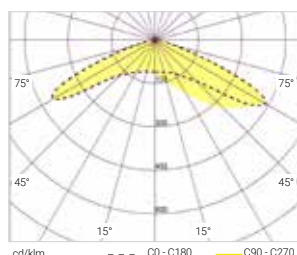
20	29	4837	4408	Glass	152	On-off	8,60	863120
20	58	9240	8468	Glass	146	On-off	8,60	863130
40	91	14280	13104	Glass	144	On-off	8,60	863240

FIT URBAN arm

Flicker
<1%Class
II

IP66

IK08



Roadway 60° wide beam optics

Included: arm fastening. Suitable for poles with a diameter from 42 mm to 76 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

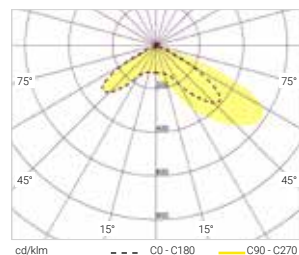
+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	16	3000	2500	Glass	156	On-off	7,80	864116B
20	29	5150	4292	Glass	148	On-off	7,80	864126B
20	58	9744	8120	Glass	140	On-off	7,80	864136B
40	91	14742	12285	Glass	135	On-off	7,80	864246B
40	121	19488	16240	Glass	135	On-off	7,80	864256B

3000 K

+ 45°C
- 40°C

20	29	4837	4031	Glass	139	On-off	7,80	863126B
20	58	9240	7700	Glass	133	On-off	7,80	863136B
40	91	14280	11900	Glass	131	On-off	7,80	863246B



Large areas 60° extra wide beam optics

Included: arm fastening. Suitable for poles with a diameter from 42 mm to 76 mm.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	16	3000	2500	Glass	156	On-off	7,80	864117B
20	29	5150	4292	Glass	148	On-off	7,80	864127B
20	58	9744	8120	Glass	140	On-off	7,80	864137B
40	91	14742	12285	Glass	135	On-off	7,80	864247B
40	121	19488	16240	Glass	135	On-off	7,80	864257B

3000 K

+ 45°C
- 40°C

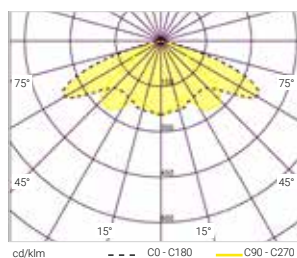
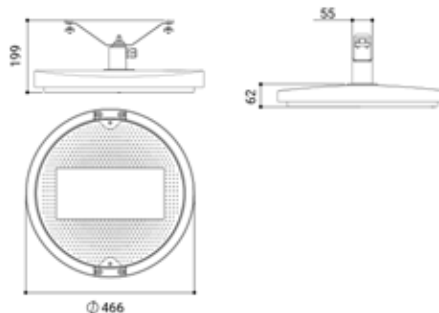
20	29	4837	4031	Glass	139	On-off	7,80	863127B
20	58	9240	7700	Glass	133	On-off	7,80	863137B
40	91	14280	11900	Glass	131	On-off	7,80	863247B

FIT URBAN catenary wire

Flicker
<1%Class
II

IP66

IK08



Road centre wide beam optics

Included: bracket for tensioned installation on cables, steel cables.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
PMMA lenses.
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



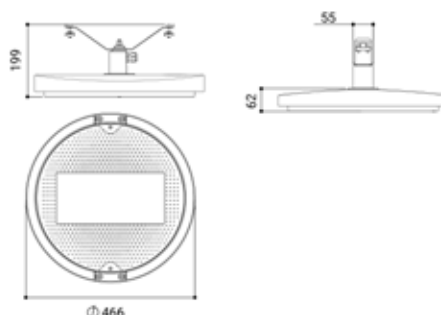
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
40	58	9744	8120	Glass	140	On-off	7,80	864234T
40	91	14742	12285	Glass	135	On-off	7,80	864244T
40	121	19488	16240	Glass	135	On-off	7,80	864254T

3000 K



40	58	9240	7700	Glass	133	On-off	7,80	863234T
40	91	14280	11900	Glass	131	On-off	7,80	863244T

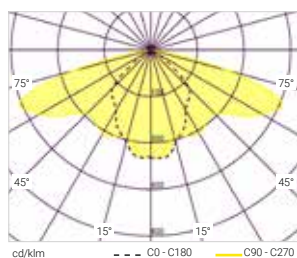
FIT URBAN catenary wire

Flicker
<1%Class
II

IP66

IK08

FOS



Road centre narrow beam optics

Included: bracket for tensioned installation on cables, steel cables.
Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.
Aluminium reflector. FOS on page 76.
The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (kg)	Code
28	54	8700	7236	Glass	134	On-off	7,80	864235T
28	69	12000	9970	Glass	145	On-off	7,80	864245T
28	86	14600	12126	Glass	141	On-off	7,80	864255T

3000 K



28	69	11300	9384	Glass	136	On-off	7,80	863245T
28	86	13800	11438	Glass	133	On-off	7,80	863255T

FIT URBAN pendant mounting

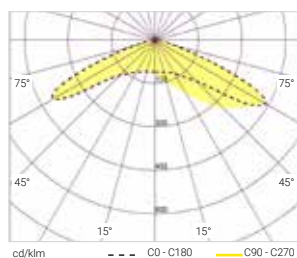
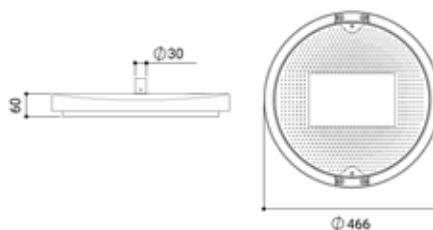


Flicker
<1%

Class
II

IP66

IK08



Roadway 60° wide beam optics

Included: bracket for pendant mounting fastening.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K



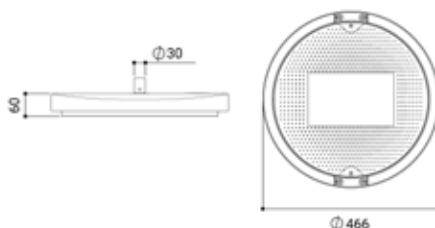
LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
20	16	3000	2500	Glass	156	On-off	7,80	864116S
20	29	5150	4292	Glass	148	On-off	7,80	864126S
20	58	9744	8120	Glass	140	On-off	7,80	864136S
40	91	14742	12285	Glass	135	On-off	7,80	864246S
40	121	19488	16240	Glass	135	On-off	7,80	864256S

3000 K



20	29	4837	4031	Glass	139	On-off	7,80	863126S
20	58	9240	7700	Glass	133	On-off	7,80	863136S
40	91	14280	11900	Glass	131	On-off	7,80	863246S

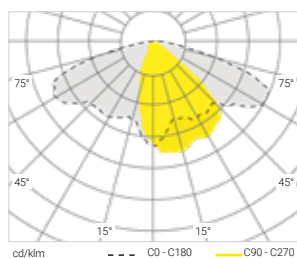
FIT URBAN pendant mounting

Flicker
<1%Class
II

IP66

IK08

FOS



STR-ST roadway narrow beam optics

Included: bracket for pendant mounting fastening.

Power supply with 2Px2.5 mm² connector and 2x1 mm² H05RN-F cable, length 70 cm.

Aluminium reflector. FOS on page 76.

The stated flux and power values may be subject to a +/- 7% tolerance.

4000 K

+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	17	3400	2822	Glass	166	On-off	7,80	864111S
14	34	6000	4998	Glass	147	On-off	7,80	864121S
14	54	8700	7236	Glass	134	On-off	7,80	864131S
28	69	12000	9970,5	Glass	145	On-off	7,80	864241S
28	86	14600	12126	Glass	141	On-off	7,80	864251S

3000 K

+ 45°C
- 40°C

14	54	7980	6642	Glass	123	On-off	7,80	863131S
28	69	11300	9384	Glass	136	On-off	7,80	863241S
28	86	13800	11438	Glass	133	On-off	7,80	863251S



Tunnels

Road and motorway tunnels



FLIGHT-T54

from 4600 lm to 29260 lm
Page 256



TIGUA-T54

from 4970 lm to 16820 lm
Page 260



XTIGUA-T54

from 21584 lm to 57565 lm
Page 262



RINO-T54

from 3628 lm to 6000 lm
Page 266



XRINO-T54

from 8046 lm to 59202 lm
Page 268

FLIGHT-T54



WARRANTY
UP TO 10 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

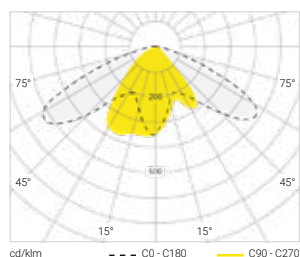
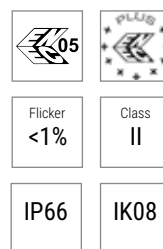
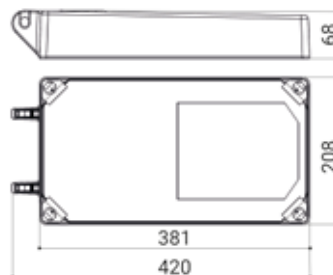
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60079-0 and 60598-1
Impact resistance	IK08 as per IEC 62262
Corrosion class	C5-M / C4-H ISO 9223
Mounting system	Predisposed for cable tray mounting
Ambient operating temperature	-40 °C - +40 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 165 lm/W
Colour temperature	4000 K
Optics features	Size S with high efficiency aluminium reflector 99.9% M size with non-ageing UV resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI≥70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group EN 62471
Residual flicker	<1%
Luminous flux maintenance	L80 B10 @ 150,000 h Tq=+25 °C
Insulation class	II
Supply voltage	220V-240V 50/60Hz
Surge protection	10 kV common mode and differential mode as per EN61000-4-5
Power factor	>0,95
Type of power supply	1.5 mm ² FTG180M16 cable with plug 16A 2P IP67 IEC EN 60309-1/-2

Special versions can be made for remote management of the system.

FLIGHT-T54 | S size

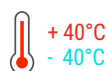


PA5 permanent asymmetrical beam optics

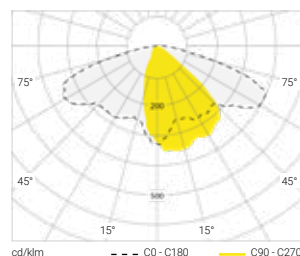
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable. Aluminium reflector.

The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	802192
28	28	5520	4600	Glass	165	On-off	5,00	802232
28	44	8290	6908	Glass	156	On-off	5,00	802252
28	66	12044	10037	Glass	153	On-off	5,00	802282



STR-ST permanent asymmetrical beam optics

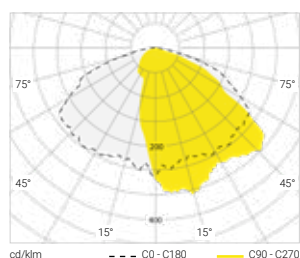
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable. Aluminium reflector. FOS on page 62.

The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	802191
28	28	5520	4600	Glass	165	On-off	5,00	802231
28	44	8290	6908	Glass	156	On-off	5,00	802251
28	66	12044	10037	Glass	153	On-off	5,00	802281

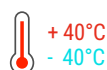


STR-AM permanent asymmetrical beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable. Aluminium reflector. FOS on page 62.

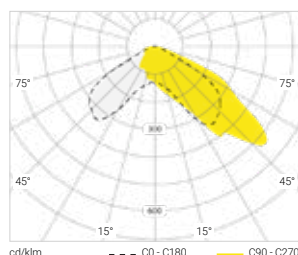
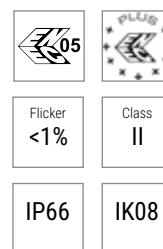
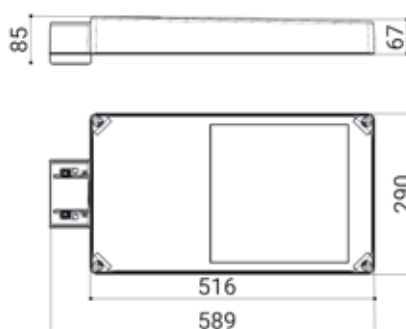
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	802190
28	28	5520	4600	Glass	165	On-off	5,00	802230
28	44	8290	6908	Glass	156	On-off	5,00	802250
28	66	12044	10037	Glass	153	On-off	5,00	802280

FLIGHT-T54 | M size



Reinforcement asymmetrical 50° extra wide beam optics

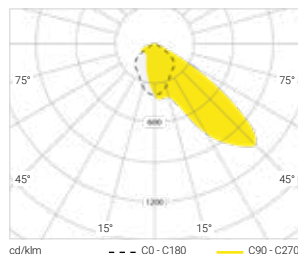
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	110	17820	14850	Glass	135	On-off	7,50	802317
48	146	23652	19710	Glass	135	On-off	7,50	802417
60	183	29426	24522	Glass	134	On-off	7,50	802517
72	220	35112	29260	Glass	133	On-off	7,50	802617



Reinforcement asymmetrical 55° narrow beam optics

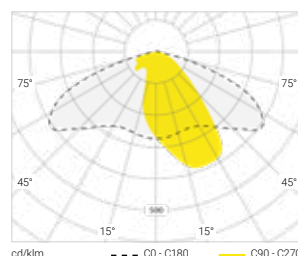
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	110	17820	14850	Glass	135	On-off	7,50	802315
48	146	23652	19710	Glass	135	On-off	7,50	802415
60	183	29426	24522	Glass	134	On-off	7,50	802515
72	220	35112	29260	Glass	133	On-off	7,50	802615



Reinforcement symmetrical 65° beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	110	17820	14850	Glass	135	On-off	7,50	802314
48	146	23652	19710	Glass	135	On-off	7,50	802414
60	183	29426	24522	Glass	134	On-off	7,50	802514
72	220	35112	29260	Glass	133	On-off	7,50	802614

Accessories FLIGHT-T54



FLIGHT- T54 equipped with **support for quick coupling to the cable tray**

Brackets for quick coupling to the cable tray dimensions for S size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	
	200 x 65/70/75/80/100	802900
	300 x 65/70/75/80/100	
Material: AISI 304 stainless steel		

Brackets for quick coupling for transversal adjustment for S size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	802910
	200 x 65/70/75/80/100	802911
	300 x 65/70/75/80/100	802912
Material: AISI 304 stainless steel		

Features: transversal adjustment 5°-10°-15°-20°-25°

Brackets for quick coupling to the cable tray for M size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	802903
	200 x 65/70/75/80/100	802905
	300 x 65/70/75/80/100	802906
Material: AISI 304 stainless steel		

Brackets for quick coupling for 6° axial adjustment for M size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	802913
	200 x 65/70/75/80/100	802914
	300 x 65/70/75/80/100	802915
Material: AISI 304 stainless steel		

Quick coupling brackets for 8° axial adjustment for M size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	802916
	200 x 65/70/75/80/100	802917
	300 x 65/70/75/80/100	802918
Material: AISI 304 stainless steel		

Quick coupling brackets for 10° axial adjustment for M size

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	802919
	200 x 65/70/75/80/100	802920
	300 x 65/70/75/80/100	802921
Material: AISI 304 stainless steel		

TIGUA-T54 and XTIGUA-T54



WARRANTY
UP TO 10 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

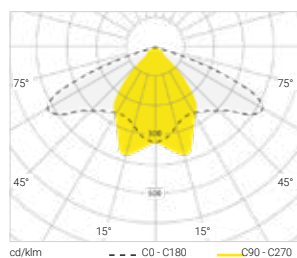
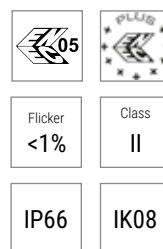
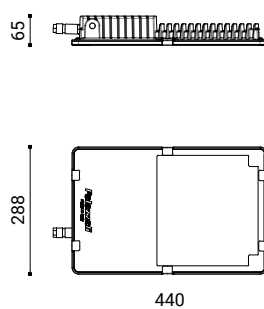
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Aluminium alloy with low copper content (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	Grey RAL 7011
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC 62262
Corrosion class	C5-M / C4-H (ISO 9223)
Mounting system	Predisposed for cable tray mounting
Ambient operating temperature	-40 °C - +45 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 145 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency > 90% and transparency > 95%
Colour rendering index values	CRI≥70 as per EN 62717
Colour consistency	MacAdam 5-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B20 @ 100,000 h Tq=+25 °C
Insulation class	II
Supply voltage	220V-240V 50/60Hz
Surge protection	8 kV common mode and 10kV differential mode as per EN61000-4-5
Power factor	>0,98
Type of power supply	1.5 mm ² FTG180M16 cable with plug 16A 2P IP67 IEC EN 60309-1/-2

Special versions can be made for remote management of the system.

TIGUA-T54

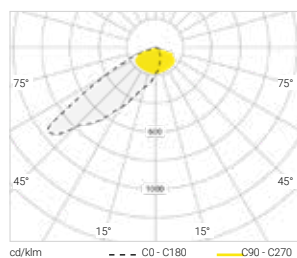


PS3 symmetrical axial and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent
and reinforcement

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4	35	5964	4970	Glass	142	Dimmable 1-10	5,50	811404
6	51	8690	7242	Glass	142	Dimmable 1-10	5,70	811406
8	67	11416	9514	Glass	142	Dimmable 1-10	5,90	811408
12	100	17040	14200	Glass	142	Dimmable 1-10	6,20	811412
14	116	19766	16472	Glass	142	Dimmable 1-10	6,40	811414



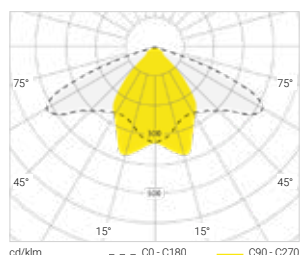
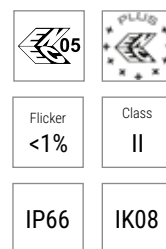
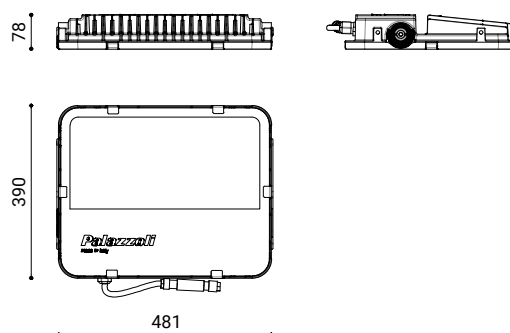
RS1 counterbeam axial 52° and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent
and reinforcement

LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
4	35	6090	5075	Glass	145	Dimmable 1-10	5,50	811504
6	51	8874	7395	Glass	145	Dimmable 1-10	5,70	811506
8	67	11658	9715	Glass	145	Dimmable 1-10	5,90	811508
12	100	17400	14500	Glass	145	Dimmable 1-10	6,20	811512
14	116	20184	16820	Glass	145	Dimmable 1-10	6,40	811514

XTIGUA-T54 | M size



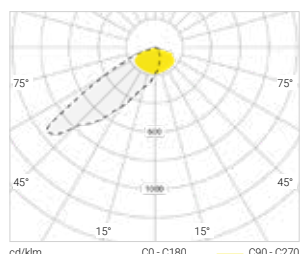
PS3 symmetrical axial and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent
and reinforcement



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
18	152	25900	21584	Glass	142	Dimmable 1-10	7,20	812418
24	203	34591	28826	Glass	142	Dimmable 1-10	7,30	812424
30	253	43111	35926	Glass	142	Dimmable 1-10	7,40	812430



RS1 counterbeam axial 52° and symmetrical transversal beam optics

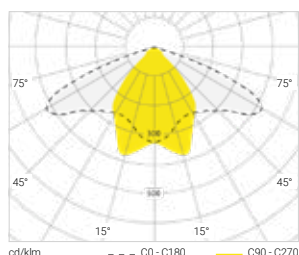
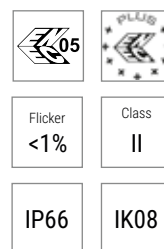
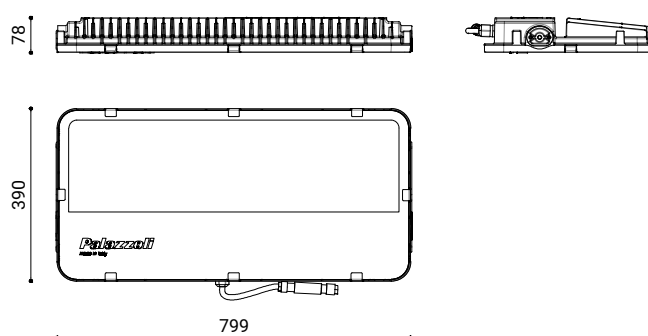
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent
and reinforcement



LED No.	Power (W)	Nominal flux (lm) T _j =25°C	Output flux (lm) T _q =25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
18	152	25900	21584	Glass	142	Dimmable 1-10	7,20	812518
24	203	34591	28826	Glass	142	Dimmable 1-10	7,30	812524
30	253	43111	35926	Glass	142	Dimmable 1-10	7,40	812530

XTIGUA-T54 | L size



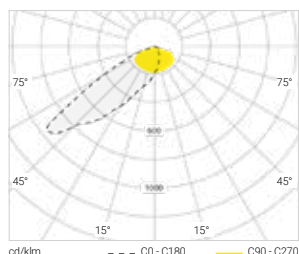
PS3 symmetrical axial and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.
Dimmable version on request.

Permanent
and reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	303	51631	43026	Glass	142	Dimmable 1-10	12,00	812436
42	349	59469	49558	Glass	142	Dimmable 1-10	12,20	812442
48	397	67648	56374	Glass	142	Dimmable 1-10	12,40	812448



RS1 counterbeam axial 52° and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.
Dimmable version on request.

Permanent
and reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
36	303	52722	43935	Glass	145	Dimmable 1-10	12,00	812536
42	349	60726	50605	Glass	145	Dimmable 1-10	12,20	812542
48	397	69078	57565	Glass	145	Dimmable 1-10	12,40	812548

Accessories TIGUA-T54 and XTIGUA-T54



XTIGUA T-54 equipped with support for quick coupling to the cable tray

Pair of quick coupling brackets for S-M-L size

 Material: AISI 304 stainless steel	Cable tray dimensions (LxH)	Code
	100 x 75	811900
	200 x 75	811901
	300 x 75	811902
	100 x 100	811903
	200 x 100	811904
	300 x 100	811905

Pair of quick coupling brackets for S-M-L size

 Material: AISI 304 stainless steel	Cable tray dimensions (LxH)	Code
	100 x 75	811925
	200 x 75	811926
	300 x 75	811927
	100 x 100	811928
	200 x 100	811929
	300 x 100	811930

Features: transversal adjustment 4°-6°-8°-10°-12°-14°-16°-18°-20°.

Pair of screw mount brackets for S-M-L size

 Material: AISI 304 stainless steel	Cable tray dimensions (LxH)	Code
	100 x 75	811906

Pair of adjustable screw mount brackets for S-M-L size

 Material: AISI 304 stainless steel	Cable tray dimensions (LxH)	Code
	100 x 75	811907

Features: transversal adjustment 4°-6°-8°-10°-12°-14°-16°-18°-20°.

Accessories TIGUA-T54 and XTIGUA-T54



Pair of axial adjustment quick coupling brackets for S size



Material:
AISI 304 stainless steel

Axial adjustment	Cable tray dimensions (LxH)	Code
6°	100 x 75	811931
6°	200 x 75	811932
6°	300 x 75	811933
6°	100 x 100	811934
6°	200 x 100	811935
6°	300 x 100	811936
8°	100 x 75	811937
8°	200 x 75	811938
8°	300 x 75	811939
8°	100 x 100	811940
8°	200 x 100	811941
8°	300 x 100	811942
10°	100 x 75	811943
10°	200 x 75	811944
10°	300 x 75	811945
10°	100 x 100	811946
10°	200 x 100	811947
10°	300 x 100	811948

Pair of axial adjustment quick coupling brackets for m size



Material:
AISI 304 stainless steel

Axial adjustment	Cable tray dimensions (LxH)	Code
6°	100 x 75	812931M
6°	200 x 75	812932M
6°	300 x 75	812933M
6°	100 x 100	812934M
6°	200 x 100	812935M
6°	300 x 100	812936M
8°	100 x 75	812937M
8°	200 x 75	812938M
8°	300 x 75	812939M
8°	100 x 100	812940M
8°	200 x 100	812941M
8°	300 x 100	812942M
10°	100 x 75	812943M
10°	200 x 75	812944M
10°	300 x 75	812945M
10°	100 x 100	812946M
10°	200 x 100	812947M
10°	300 x 100	812948M

Pair of axial adjustment quick coupling brackets for L size



Material:
AISI 304 stainless steel

6°	100 x 75	812931L
6°	200 x 75	812932L
6°	300 x 75	812933L
6°	100 x 100	812934L
6°	200 x 100	812935L
6°	300 x 100	812936L
8°	100 x 75	812937L
8°	200 x 75	812938L
8°	300 x 75	812939L
8°	100 x 100	812940L
8°	200 x 100	812941L
8°	300 x 100	812942L
10°	100 x 75	812943L
10°	200 x 75	812944L
10°	300 x 75	812945L
10°	100 x 100	812946L
10°	200 x 100	812947L
10°	300 x 100	812948L

RINO-T54 and XRINO-T54



WARRANTY
UP TO 10 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

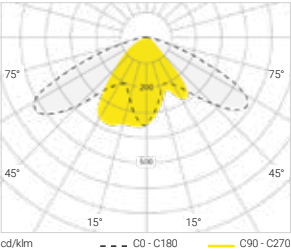
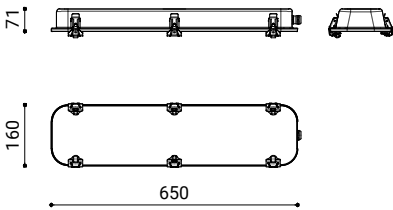
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-3
EN 60598-2-5
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	AISI 316L Stainless Steel
Surface treatment	Natural finishing
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC 62262
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Predisposed for cable tray mounting
Ambient operating temperature	-40 °C - +45 °C
Ambient storage temperature	-30 °C - +70 °C
Actual efficacy of the device	Up to 162 lm/W
Colour temperature	4000 K
Optics features	High-efficiency aluminium reflector 99.9% Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI≥70 as per EN 62717
Colour consistency	MacAdam 4-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B10 @ 240,000 h Tq=+25 °C
Insulation class	II
Supply voltage	220V-240V 50/60Hz
Surge protection	10kV common mode and differential mode as per EN61000-4-5
Type of power supply	1.5 mm² FTG180M16 cable with plug 16A 2P IP67 IEC EN 60309-1/-2

Special versions can be made for remote management of the system.

RINO-T54 | S size



PA5 symmetrical axial and asymmetrical transversal beam optics

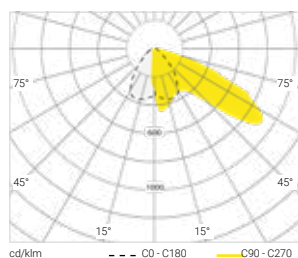
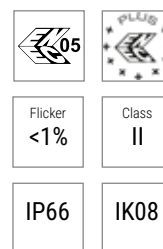
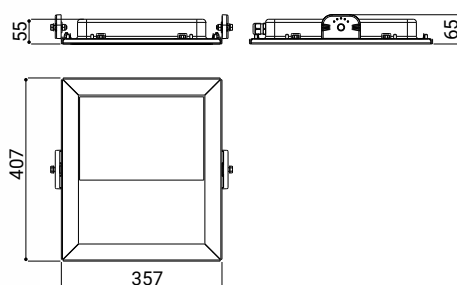
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
14	25	4353	3628	Glass	145	Dimmable 1-10	5,60	829110
14	35	5800	4827	Glass	138	Dimmable 1-10	5,60	829120
14	45	7200	6000	Glass	133	Dimmable 1-10	5,60	829130

XRINO-T54 | M size



RS5 counterbeam axial 55° and symmetrical transversal beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
Aluminium reflector.

The stated flux and power values may be subject to a +/- 7% tolerance.

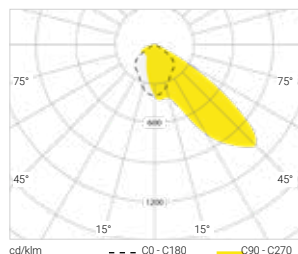
cd/klm --- C0 - C180 --- C90 - C270

Reinforcement



+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	56	9700	8046	Glass	149	Dimmable 1-10	5,80	829211
24	64	11000	9152	Glass	143	Dimmable 1-10	5,80	829221



Reinforcement asymmetrical 55° narrow beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

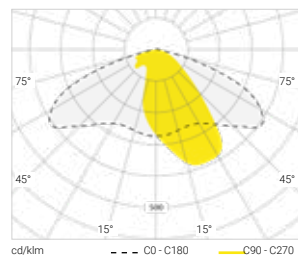
cd/klm --- C0 - C180 --- C90 - C270

Reinforcement



+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	54	9655	8046	Glass	149	Dimmable 1-10	5,80	829215
24	64	10500	9088	Glass	142	Dimmable 1-10	5,80	829225



Reinforcement symmetrical 65° beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

cd/klm --- C0 - C180 --- C90 - C270

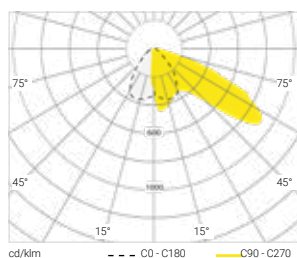
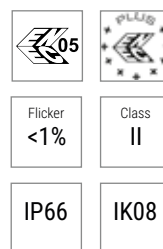
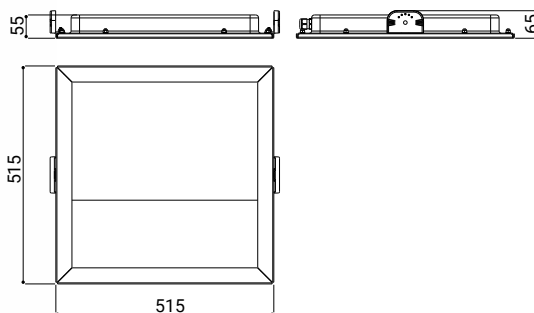
Reinforcement



+ 45°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	54	9655	8046	Glass	149	Dimmable 1-10	5,80	829212
24	64	10500	9088	Glass	142	Dimmable 1-10	5,80	829222

XRINO-T54 | L size



RS5 counterbeam axial 55° and symmetrical transversal beam optics

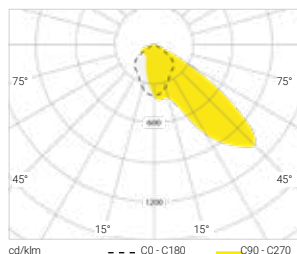
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
Aluminium reflector.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
80	86	16800	13932	Glass	162	Dimmable 1-10	12,5	829311
80	129	23994	19995	Glass	155	Dimmable 1-10	12,5	829321
80	186	33480	27900	Glass	150	Dimmable 1-10	12,5	829331



Reinforcement asymmetrical 55° narrow beam optics

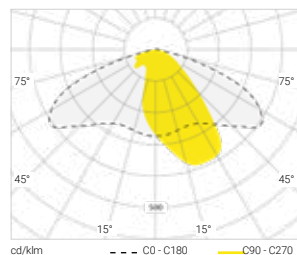
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	143	26000	21164	Glass	148	Dimmable 1-10	12,5	829345
48	186	32364	26970	Glass	145	Dimmable 1-10	12,5	829355



Reinforcement symmetrical 65° beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

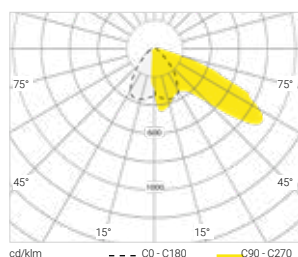
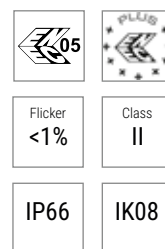
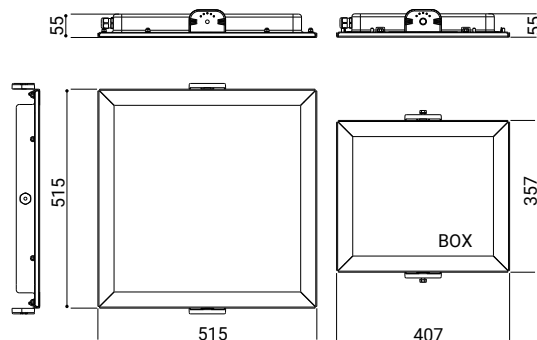
The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	143	26000	21164	Glass	148	Dimmable 1-10	12,5	829342
48	186	32364	26970	Glass	145	Dimmable 1-10	12,5	829352

XRINO-T54 | XL size



RS5 counterbeam axial 55° and symmetrical transversal beam optics

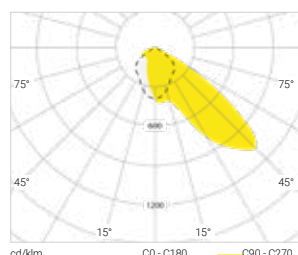
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
Aluminium reflector.

* The codes 829431 and 829441 are equipped with an aluminium heatsink.
The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
160	250	44100	36750	Glass	147	Dimmable 1-10	12,5	829411
160	300	52200	43500	Glass	145	Dimmable 1-10	19	829421
160	357	62118	51765	Glass	145	Dimmable 1-10	19	829431*
160	429	70000	59202	Glass	138	Dimmable 1-10	19	829441*



Reinforcement asymmetrical 55° narrow beam optics

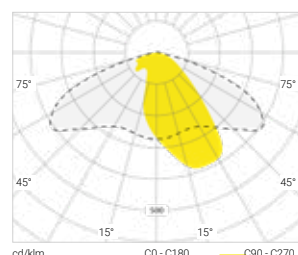
Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	300	48600	40500	Glass	135	Dimmable 1-10	19	829455



Reinforcement symmetrical 65° beam optics

Included: power supply with 16A 2P IP67 IEC EN 60309-1/-2 plug with 1.5 mm² FTG180M16 cable.
PMMA lenses.

The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	300	48600	40500	Glass	135	Dimmable 1-10	19	829452

Accessories RINO-T54 and XRINO-T54



RINO T-54 equipped with **support for quick coupling to the cable tray**

Bracket for quick fixing to the cable tray for S size floodlights

	Cable tray dimensions (LxH)	Code
	100 x 75/100	829001
	200 x 75/100	829002
	300 x 75/100	829003
Material: AISI 316L stainless steel		
Features: transversal adjustment 0°-4°-8°.		

Bracket for quick fixing to the cable tray for M size floodlights

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	829101
	200 x 65/70/75/80/100	829102
	300 x 65/70/75/80/100	829103
Material: AISI 316L stainless steel		
Features: vertical adjustment +/- 30°, axial adjustment 0°-5°-10°.		

Bracket for quick fixing to the cable tray for L size floodlights

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	829201
	200 x 65/70/75/80/100	829202
	300 x 65/70/75/80/100	829203
Material: AISI 316L stainless steel		
Features: vertical adjustment +/- 30°, axial adjustment 0°-5°-10°.		

Bracket for quick fixing to the cable tray for XL size floodlights

	Cable tray dimensions (LxH)	Code
	100 x 65/70/75/80/100	829301
	200 x 65/70/75/80/100	829302
	300 x 65/70/75/80/100	829303
Material: AISI 316L stainless steel		
Features: vertical adjustment +/- 30°, axial adjustment 0°-5°-10°.		





Marine

Thanks to the knowledge acquired in more than one hundred years of experience on military and submarine ships, oil platforms and cruise ships, Palazzoli is now able to offer a range of products whose technology meets all the requirements of the industry. The light fixtures are available in the stainless steel version for exteriors or in galvanized steel for interiors, they are resistant to corrosion thanks to the button fastening that replace the welds and guarantee high performance over time thanks to the materials used.



Technical rooms

Kitchens and pantries

External shipboard areas



YUMA-NAVE page 278



RINO-NAVE page 283



RINO-COOK page 286



YUMA-NAVE page 278



RINO-NAVE page 283



RINO-NAVE 460 page 287



RINO-NAVE page 288



RINO-NAVE 460 page 287



NAVE E27 page 290



NAVE E27 page 290



Cruise ships

Ferries
and offshore platforms

Military and cargo ships



YUMA-NAVE page 278



RINO-NAVE page 283



YUMA-NAVE page 278



RINO-NAVE page 283



YUMA-NAVE page 278



RINO-NAVE page 283



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RINO-NAVE page 288



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RINO-NAVE page 288



RINO-NAVE 460 page 287



RINO-NAVE page 288



NAVE E27 page 290



NAVE E27 page 290



NAVE E27 page 290





Ceiling lights

Technical rooms
Kitchens and Pantries
External shipboard areas
Cruise Ships - Ferries
Military ships - Cargo ships
Offshore platforms



YUMA-NAVE

from 3200 lm to 12250 lm
Page 278



RINO-NAVE

from 2200 lm to 4800 lm
Page 283



RINO-COOK

from 2400 lm to 4800 lm
Page 286



RINO-FANALE

1000 lm
Page 288

YUMA-NAVE



WARRANTY
UP TO 4 YEARS



DIRECTIVES

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

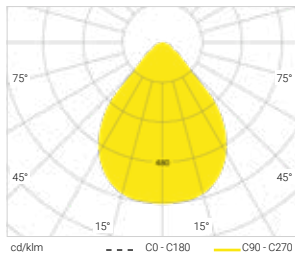
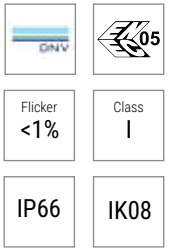
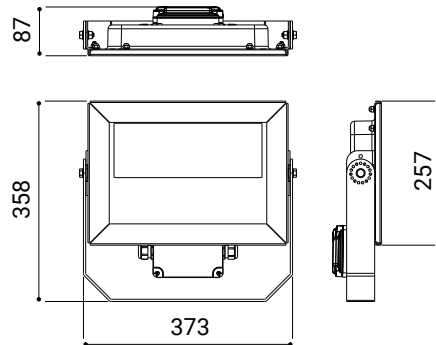
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	AISI 316L stainless steel
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	White RAL 9016
Diffuser material	Extra-clear tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK08 as per IEC/EN 62262
Corrosion class	C5-H (ISO 9223)
Mounting system	"U" bracket with adjustment
Ambient operating temperature	-40 °C - +50 °C
Ambient storage temperature	-40 °C - +70 °C
Actual efficacy of the device	Up to 128 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses with efficiency >90% and transparency >95%
Colour rendering index values	CRI ≥ 90 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0 - Exempt Group (EN 62471)
Residual flicker	< 1%
Luminous flux maintenance	L90 B10 @ 110,000h Tq=+50 °C L90 B10 @ 230,000h Tq=+25 °C
Insulation class	I
Supply voltage	220-240V 50/60 Hz
Surge protection	10 kV common mode and 6 kV differential mode (EN 61000-4-5)
Power factor	≥ 0,95
Type of power supply	Junction box with cable gland M20
Max. conductor cross-section	4 mm ²
Inlet cable diameter	7 ÷ 13 mm

Special versions can be made with asymmetric optics and with colour temperatures from 3000 K to 6500 K.

YUMA-NAVE floodlight | S size



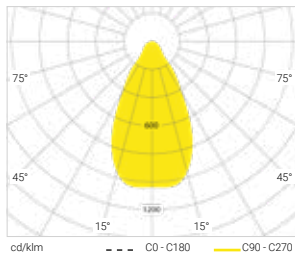
Symmetrical 81° extra wide beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (kg)	Code
12	25	3840	3200	Glass	128	On-off	5,00	809114
12	49	7350	6125	Glass	125	On-off	5,00	809124



Symmetrical 55° medium beam optics

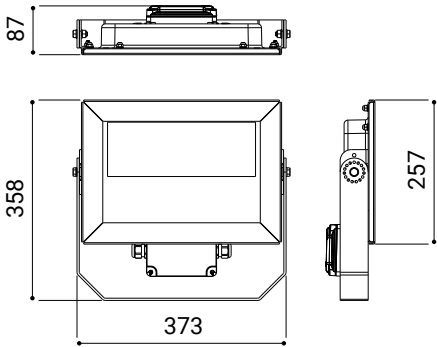
Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel

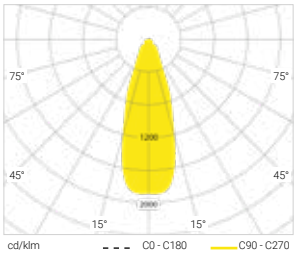


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (kg)	Code
12	25	3840	3200	Glass	128	On-off	5,00	809116
12	49	7350	6125	Glass	125	On-off	5,00	809126

YUMA-NAVE floodlight | S size



Flicker <1%	Class I
IP66	IK08

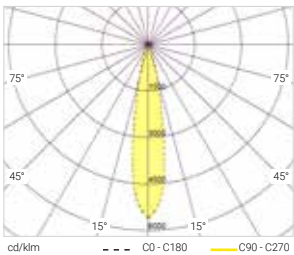


Symmetrical 36° narrow beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	25	3840	3200	Glass	128	On-off	5,00	809111
12	49	7350	6125	Glass	125	On-off	5,00	809121

AISI 316L stainless steel



Symmetrical 15° narrow beam optics

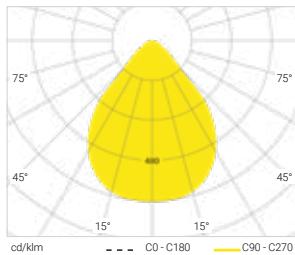
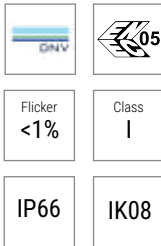
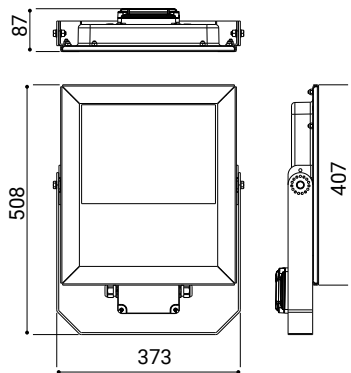
Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
12	25	3840	3200	Glass	128	On-off	5,00	809119
12	49	7350	6125	Glass	125	On-off	5,00	809129

AISI 316L stainless steel



YUMA-NAVE floodlight | M size



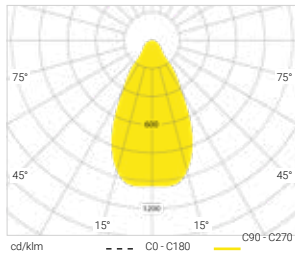
Symmetrical 81° extra wide beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	74	11100	9250	Glass	125	On-off	6,00	809234
24	98	14700	12250	Glass	125	On-off	6,00	809244



Symmetrical 55° medium beam optics

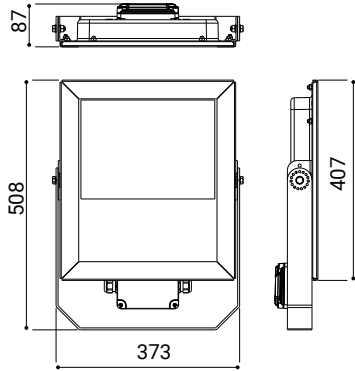
Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	74	11100	9250	Glass	125	On-off	6,00	809236
24	98	14700	12250	Glass	125	On-off	6,00	809246

YUMA-NAVE floodlight | M size

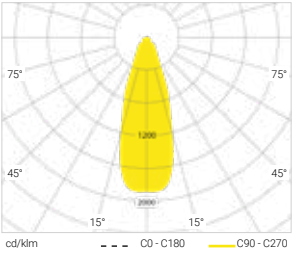


Flicker
<1%

Class
I

IP66

IK08



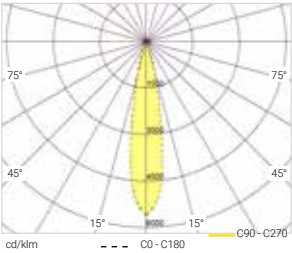
Symmetrical 36° narrow beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel

+ 50°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	74	11100	9250	Glass	125	On-off	6,00	809231
24	98	14700	12250	Glass	125	On-off	6,00	809241



Symmetrical 15° narrow beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

AISI 316L stainless steel

+ 50°C
- 40°C

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
24	74	11100	9250	Glass	125	On-off	6,00	809239
24	98	14700	12250	Glass	125	On-off	6,00	809249

RINO-NAVE



WARRANTY
UP TO 4 YEARS



DIRECTIVES

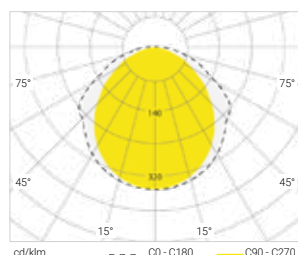
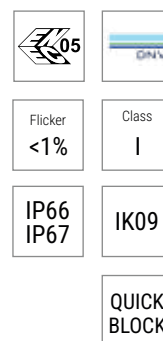
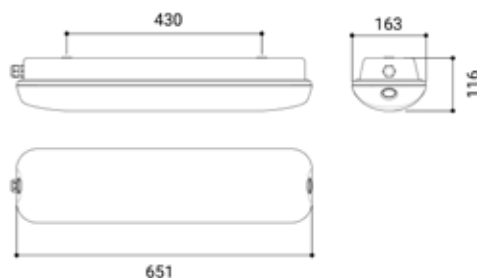
2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	Painted AISI 316L stainless steel Painted galvanized steel
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	RAL 9016
Diffuser material	Transparent and opaline polycarbonate
Protection rating	IP66/IP67 as per IEC 60598-1
Impact resistance	IK09 as per IEC 62262
Corrosion class	C5-H AISI 304 stainless steel (ISO 9223)
Mounting system	Predisposition with No. 2 M8 threaded holes
Ambient operational temperature	-25 °C - +50 °C 0 °C - +35 °C (Emergency versions)
Ambient storage temperature	-40°C - +70°C -30 °C - +50 °C (Emergency versions)
Actual efficacy of the device	Up to 120 lm/W
Colour temperature	4000 K
Optics features	Non-ageing UV-resistant PMMA lenses
Colour rendering index values	CRI≥90 as per EN 62717
Colour consistency	MacAdam 3-step
Photobiological risk	RG0-Exempt Group (EN 62471)
Residual flicker	<1%
Luminous flux maintenance	L80 B20 @ 90,000 h Tq=+25 °C
Emergency battery life	1h - 3h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	220V-240V 0/50/60Hz
Surge protection	2 kV common and differential mode as per EN61000-4-5
Power factor	>0,90
Type of power supply	Spring terminals and cable gland M20
Max. conductor cross-section	2,5 mm²
Inlet cable diameter	7÷15 mm

RINO-NAVE | 650 mm



Symmetrical 110° extra wide beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
No. 2 cable glands and No. 1 nickel-plated brass cap. Disconnecter to allow safe opening.
The stated flux and power values may be subject to a +/- 7% tolerance.

Painted galvanized steel



LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
84	20	2640	2200	Opaline polycarbonate	110	On-off	2,90	841341
192	40	5280	4400	Opaline polycarbonate	110	On-off	3,00	841342
84	20	2880	2400	Transparent polycarbonate	120	On-off	2,90	849341
192	40	5760	4800	Transparent polycarbonate	120	On-off	3,00	849342

Painted galvanized steel
Emergency

84	20	2640	2200 (400 in EM)	Opaline polycarbonate	110	On-off 3h Emergency	3,90	841371
84	20	2880	2400 (400 in EM)	Transparent polycarbonate	120	On-off 3h Emergency	3,90	849371
192	40	5760	4800 (400 in EM)	Transparent polycarbonate	120	On-off 3h Emergency	3,90	849372

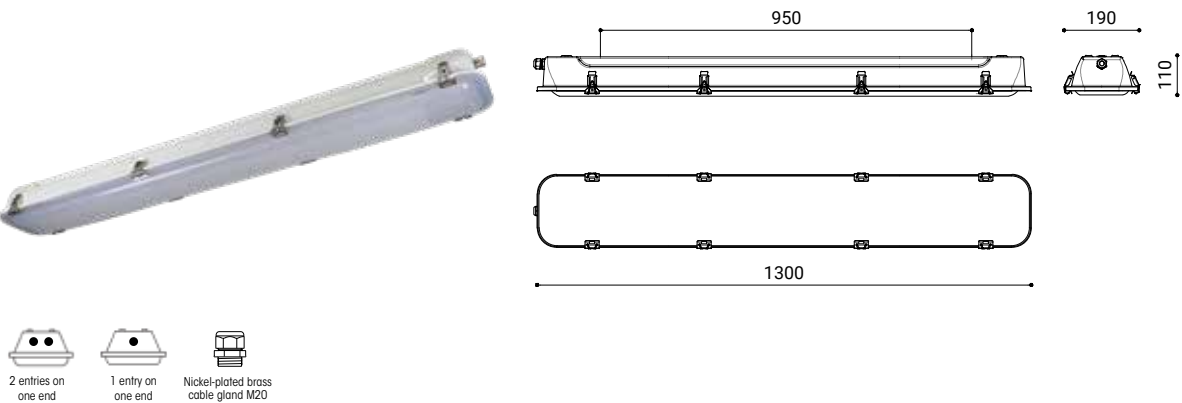
Painted AISI 316L
stainless steel

84	20	2640	2200	Opaline polycarbonate	110	On-off	2,90	878341
192	40	5280	4400	Opaline polycarbonate	110	On-off	3,00	878342

Bulkhead painted
AISI 316L stainless steel

84	20	2640	2200	Opaline polycarbonate	110	On-off	2,90	878841
192	40	5280	4400	Opaline polycarbonate	110	On-off	3,00	878842

RINO-NAVE | 1300 mm

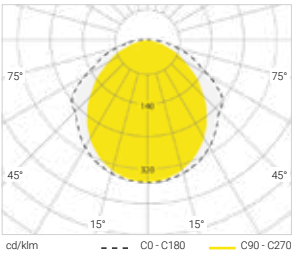


Flicker
<1%

Class
I

IP66
IP67

IK09



Symmetrical 110° extra wide beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
 No. 2 cable glands and No. 1 nickel-plated brass cap.
 The stated flux and power values may be subject to a +/- 7% tolerance.

	LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
Painted galvanized steel 	100	40	4400	3870	Opaline polycarbonate	97	On-off	5,45	841243
	100	40	4400	4244	Transparent polycarbonate	106	On-off	5,45	849243
Painted galvanized steel Emergency 	100	40	4400	3870 (400 in EM)	Opaline polycarbonate	97	On-off 3h Emergency	5,45	841273
	100	40	4400	4244 (400 in EM)	Transparent polycarbonate	106	On-off 3h Emergency	5,45	849273
Painted AISI 316L stainless steel 	100	40	4400	3870	Opaline polycarbonate	97	On-off	5,45	878243

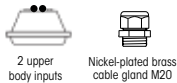
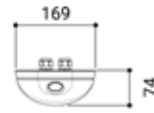
Accessories RINO-NAVE LED

Pair of supports for bulkhead installation

Material:
AISI 316L
stainless steel

Code: **820007**

RINO-COOK | 650 mm



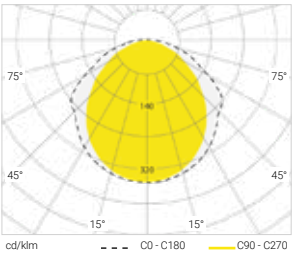
Flicker
<1%

Class
I

IP66
IP67

IK09

**QUICK
BLOCK**



Symmetrical 110° extra wide beam optics

Included: No. 2P+T terminals for input/output of the power supply line.
 No. 2 cable glands and No. 1 nickel-plated brass cap. Disconnecter to allow safe opening.
 The stated flux and power values may be subject to a +/- 7% tolerance.

Painted galvanized steel



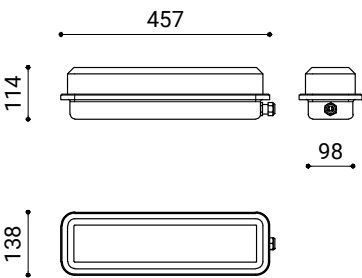
LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
84	20	2880	2400	Opaline polycarbonate	120	On-off	3,00	841641
192	40	5760	4800	Opaline polycarbonate	120	On-off	3,00	841642
84	20	2880	2400	Transparent polycarbonate	120	On-off	3,00	849641
192	40	5760	4800	Transparent polycarbonate	120	On-off	3,00	849642

Painted galvanized steel Emergency

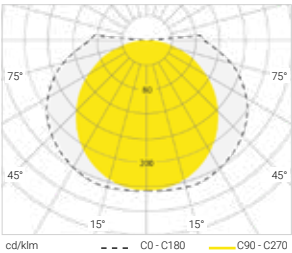


84	20	2880	2400 (400 in EM)	Opaline polycarbonate	120	On-off 3h Emergency	3,00	841671
192	40	5760	4800 (400 in EM)	Opaline polycarbonate	120	On-off 3h Emergency	3,00	841672
84	20	2880	2400 (400 in EM)	Transparent polycarbonate	120	On-off 3h Emergency	3,00	849671
192	40	5760	4800 (400 in EM)	Transparent polycarbonate	120	On-off 3h Emergency	3,00	849672

RINO-NAVE | 460 mm



Flicker <1%	Class I
IP66	IK08



Symmetrical 110° extra wide beam optics

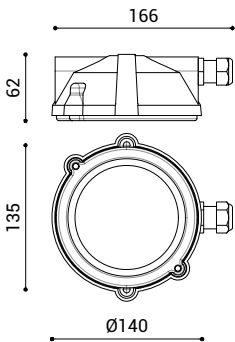
Included: No. 1 cable gland and No. 1 nickel-plated brass cap.
The stated flux and power values may be subject to a +/- 7% tolerance.

Painted galvanized steel

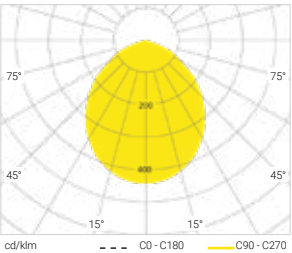


LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
48	21	2646	2205	Opaline polycarbonate	105	On-off	3,00	841040

RINO-NAVE | light fixture



Class I
IP66
IK08



Symmetrical 110° extra wide beam optics

Included: No. 1 connector.
The stated flux and power values may be subject to a +/- 7% tolerance.

LED No.	Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Diffuser	Efficiency (lm/W)	Version	Weight (Kg)	Code
1	10	1200	1000	Glass	100	On-off	2,00	813001

Die-cast aluminium



Accessories RINO-NAVE LIGHT FIXTURE

Wall mounting bracket

	Material: AISI 316L stainless steel
	Code: 813101



Traditional

Cruise Ships

Military Ships

Ferries

Offshore platforms

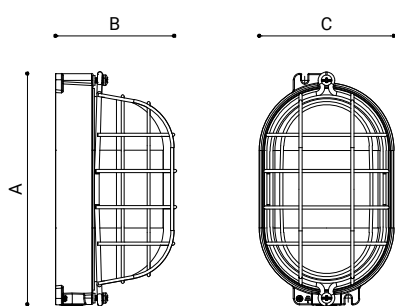
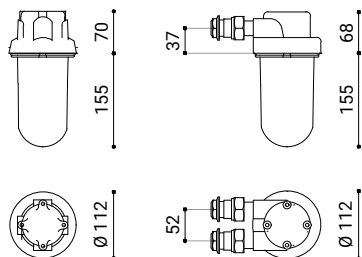
Submarines

Cargo ships



NAVE
E27

Page 290



Size	A (mm)	B (mm)	C (mm)
S	199	119	112
M	226	122	130
L	295	142	170

Body material	Brass
Surface treatment	Fluorozirconate passivation
Surface finish	Hot-polymerized non-toxic polyester paint
Colour	RAL 7035
Diffuser material	Prismatic tempered glass
Protection rating	IP66 as per IEC 60598-1
Impact resistance	IK07 as per IEC 62262
Mounting system	Prepared for wall installation
Ambient operational temperature	-40 °C - +70 °C
Ambient storage temperature	-50 °C - +80 °C
Lamp holder type	Type E27 in porcelain and type G23 in tecnopolymer
Insulation class	I
Supply voltage	230V 0/50/50Hz
Type of power supply	M20 cable gland
Max. conductor cross-section	2,5 mm ²
Entry cable diameter	7 ÷ 13 mm



DIRECTIVES

2014/35/EU (LVD)
2011/65/EU (RoHS)
2012/19/EU (RAEE)
2009/125/EC (ERP)
Reg. EU 2019/2020 (EcoDesign)

PRODUCT STANDARDS

EN 60598-1
EN 60598-2-1
EN 63000

NAVE E27



E27

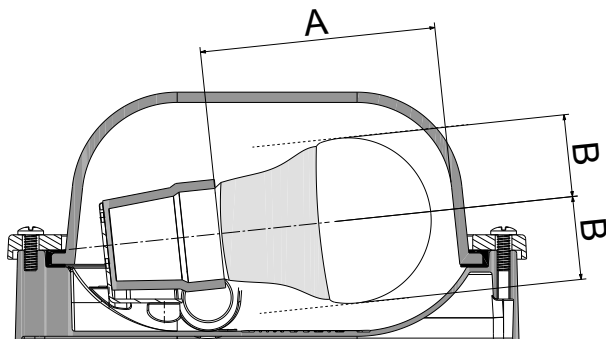
Class
I

IP66

IK07

	Size	Cable glands No.	Diffuser	Version	Weight (Kg)	Code
Brass	S	2	Glass	UNAV 2135	1,10	831089
	M	2	Glass	UNAV 2135	1,20	831189
	L	2	Glass	UNAV 2135	1,35	831289

MATCHING LIGHTS FIXTURES / E27 BULB	Size	LED (W)	Nominal flux (lm)	
			Warm White 3000K	Neutral White 4000K
	S	8,7	630	640
	M	8,7	940	960
	L	13	1200	1250



	Size	A	B
	S	90	38
	M	110	40
	L	168	43

Accessories NAVE E27

Stainless steel wire protective cage for oval light fixtures type UNAV 2135

	Material	Size	Code
	Stainless steel	S	831527
		M	831627
		L	831727

Swann type anti-vibration bayonet lamp holder for oval light fixtures type UNAV 2135

	Material	Light fixture power (W)	Code
	Brass	B22d 4A 250V	859412

NAVE marine light E27



E27

Class
I

IP66

IK07



	No. of cable glands	Diffuser	Version	Weight (Kg)	Code
Painted brass	2 combined bulkhead	Glass	UNAV 2133	2,72	850054



	No. of cable glands	Version	Weight (Kg)	Code
Navy grey painted brass body	2 opposite	UNAV 2133	1,15	850045
	2 combined	UNAV 2134	1,15	815161



	Colour	Diffuser	Version	Weight (Kg)	Code
Diffuser	Transparent	Smooth glass	UNAV 1268	0,43	850060



	Colour	Cable gland	Version	Weight (Kg)	Code
Portable light in thermosetting material	Transparent	M20	UNAV 2137	0,97	814052

Accessories NAVE marine light E27



E27

Class
I

IP66

IK07

Globe holder ring for cylindrical lights type UNAV 2133

	Material	Code
	Nickel-plated brass	850050

Ceiling-mounted bases for cylindrical lights type UNAV 2132, 2122, 2134

	Material	Code
	Tropicalized galvanized steel	850090

Wall-mounted bases for cylindrical lights type UNAV 2132, 2122, 2134

	Material	Code
	Tropicalized galvanized steel	850091

Swann lamp holder with fins

	Material	Code
	Brass	859400

Closing cap complete with gaskets

	Material	Code
	Brass	585490

Protective cage for cylindrical lights type UNAV 2132

	Material	Code
	Stainless steel	819022

Reflectors for cylindrical lights

	Material	Code
	Painted galvanized steel	819030



Spare parts

Traditional luminaires



**DIFFUSERS
GASKETS
LAMP HOLDERS**

Page 295



CERTIFICATIONS

Page 296

SPARE PARTS traditional luminaires



Replacement gaskets for oval light fixtures

	For light fixtures size	Code
	S	831540
	M	831640
	L	831740
Material: Elastomer		

Replacement diffusers for oval light fixtures

	For light fixtures size	Colour	Code
	S	Transparent	831512
	M	Transparent	831612
	L	Transparent	831712
Material: Striped clear glass			

Replacement seals for round light fixtures

	For light fixture	Code
	Round	830540
Material: Elastomer		

Replacement diffuser for round light fixtures

	For light fixture	Colour	Code
	Round	Transparent	830512
Material: Striped clear glass			

Replacement gaskets for RINO series cylindrical lights

	Type fanale	Code
	Cylindrical	819040
	UNAV 2133	850080
Material: Elastomer		

E27 safety lamp holder with bracket, for RINO series cylindrical lights and portable light series ship type UNAV 2137

	Material	Code
	Porcelain	819055

Replacement lamp holder with square for oval and round light fixtures

	Material	Code
	Porcelain	819056

E27 replacement lamp holder for ship series lights type UNAV 2132, 2133 and 2134

	Material	Code
	Porcelain	859180

Replacement globe holder ring for watertight lights with cylindrical diffuser ship series type UNAV 2134

	Material	Code
	Grey brass	819001

BUSINESS CERTIFICATIONS



QUALITY



ENVIRONMENT



SAFETY



QAN



QAR



CTF 2

Palazzoli uses a quality management system to ensure customer satisfaction, the protection and respect of workers and the territory, voluntarily submitted to annual audits by independent third parties to verify full compliance with international standards: ISO 9001 (Quality), ISO 14001 (Environment) and ISO 45001 (Health and Safety at Work).

In the ATEX context, Palazzoli has obtained the "Notification of product quality assurance" from IMQ and the "Quality Assessment Report" (IECEx QAR) for the production of electrical and lighting systems intended for potentially explosive atmospheres.

PRODUCT CERTIFICATIONS



DEKRA



ENEC PLUS



DNV



INMETRO



INTERTEK



IMO

Each Palazzoli's product is designed to guarantee a total protection of those who will use it.

The accredited Palazzoli's Laboratory cooperates constantly with other laboratories and institutional bodies and universities. It also regularly participates in the CEI and UNI Technical Committees.

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833630MV	1	243	834310	1	241	834520	1	241	835244HT	1	118	837211HT	1	98
833631MV	1	240	834310MV	1	241	834520MV	1	241	835314DA	1	119	837212	1	98
834110	1	235	834311	1	237	834521	1	237	835314HT	1	119	837212HT	1	98
834110MV	1	235	834311MV	1	237	834521MV	1	237	835324DA	1	119	837213	1	98
834111	1	233	834320	1	241	834530	1	241	835324HT	1	119	837221EX	1	183
834111MV	1	233	834320MV	1	241	834530MV	1	241	835334DA	1	120	837222EX	1	183
834120	1	235	834321	1	237	834531	1	237	835334HT	1	120	837223EX	1	183
834120MV	1	235	834321MV	1	237	834531MV	1	237	835344DA	1	120	837224	1	98
834121	1	233	834330	1	241	834610MV	1	241	835344HT	1	120	837224EX	1	183
834121MV	1	233	834330MV	1	241	834610HT	1	242	836001	1	161	837225	1	98

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837311	1	99	838021EX	1	185	838248HT	1	104	838736HT	1	104	841671	1	286
837312	1	99	838022EX	1	185	838248VHT	1	104	838736VHT	1	104	841672	1	286
837313	1	99	838023EX	1	185	838260DA	1	107	838748DA	1	104	841782	1	135
837324	1	99	838024EX	1	185	838260HT	1	107	838748HT	1	104	842150	1	131
837325	1	99	838036DA	1	103	838260VHT	1	107	838748VHT	1	104	842152	1	131
837411	1	100	838036HT	1	103	838272DA	1	107	838760DA	1	107	842250	1	131
837411HT	1	100	838036VHT	1	103	838272HT	1	107	838760HT	1	107	842252	1	131
837412	1	100	838048DA	1	103	838272VHT	1	107	838760VHT	1	107	842380	1	134
837412HT	1	100	838048HT	1	103	838296DA	1	109	838772DA	1	107	842382	1	134
837413	1	100	838048VHT	1	103	838312DA	1	112	838772HT	1	107	842482	1	134
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837712HT	1	98	838221EX	1	185	838560VHT	1	108	841371	1	284	849341	1	284
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837726HT	1	98	838236HT	1	104	838712DA	1	112	841582	1	135	849642	1	286

PICTOGRAMS



CE marking. It indicates that a product can move freely within the European Union. Ensures that the product meets the essential safety requirements.



Certification of the luminaires conformity with European EN safety standards.



Advanced certification of luminaires conformity to the European EN standards, guaranteeing superior level of safety, energy efficiency and reliability.



UK Conformity Assessed, identifies that the product has been assessed in accordance with UK regulations following Brexit.



International Electrotechnical Commission for the Certification of luminaires for use in explosive atmospheres, identifies that the product has been certified by an Ex certification body.



Luminaire suitable for installation in environments with potentially explosive atmospheres.



Certification of international compliance by DNV for the installation of equipment in the world of shipping.



Ball impact resistant, suitable for installation in sports halls.



Limited surface temperature, luminaire suitable for installation in environments where there is a risk of thermal effects such as combustion or degradation of materials, but where there is no risk of explosion.



Digital Addressable Lighting Interface. Digital transmission protocol.



The IP code classifies and evaluates the degree of protection provided by housings against the penetration of solids and water.



The IK code is the degree of protection of the luminaires against external mechanical impacts.



The insulation classes are defined by the electrical safety rules and determine the characteristics of protection of the luminaires against electric shock.



Flickering (variation in light intensity over time) perceptible or imperceptible to the human eye.



Colour related temperature.



Luminaire fitted with G13 connection for T8 fluorescent tubes.



Type of screw connection of the light source.



Indicates the possibility to move the position of the optics.



Ambient temperature range within which the correct functioning of the product is guaranteed.



Quick coupling system that allows you to secure the diffuser at the base in less than 1 second.



Indicates the possibility of installation in environments with swimming pools.



To consult the contract terms, scan the QR code.

Palazzoli S.p.A.
single-member company coordinated by LMH S.r.l.

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Always a step ahead
creating a lasting impact

Customer focused operations

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