

Luminaires Catalogue

International Edition 2010/2011



GE
Lighting

Luminaires Catalogue











International Edition 2010/2011











GE imagination at work

Pictograms

Application

	PARKING AREA
	SEAWALKS
	WALKWAYS
	RESIDENTIAL AREAS
	GARDENS
	STREETS
	INDUSTRIAL AREAS
	ROUNDABOUTS
	SQUARES
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GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this catalogue are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted by law. All lamp drawings are a guide, if further technical details are required please contact your nearest sales office.

General conditions of sale

GE Lighting products are supplied according to GE's General Conditions of Sale. If you require a copy of these conditions please contact your nearest GE Lighting sales office.

Prices

A price list is available from all GE Lighting sales offices.

www.gelighting.com/eu

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This is GE... It begins with the best ideas in class and leads to quality products with proven demand, for which GE can offer long term services. We build client relationships with our customers to spark off ideas for new innovations.

imagination at work

GE has always been a company that stands for progress. For more than 130 years we have been able to tell stories about GE innovations. GE's new imagination at work approach is about GE people, their curiosity, relentless drive, hard work and willingness to take risks – combined with a foundation of limitless imagination – that makes anything possible. It's a legacy of progress that began with our founder, Thomas Edison, and one that will continue through the 21st century. At GE, what we imagine, we can make happen.

Our company began with the invention of the world's first affordable incandescent lamp. A century later, GE is still bringing light to your world. We are developing new lighting technologies such as ceramic metal halide and light-emitting diodes that operate with more efficiency, less cost and less environmental impact than ever before. We provide solutions for commercial, industrial and residential use in more than 100 countries, bringing to market new technologies that help customers and consumers meet pressing environmental challenges, whilst delivering a comfortable lighting environment for both work and domestic settings.



As a Worldwide Partner of the Olympic Games, GE is the exclusive provider of a wide range of innovative products and services that are integral to the successful Games.

Solutions for sustainable cities

LED luminaires



LED Area Lighter



LED Cove



LED Duna



LED Display Case



LED Iberia



Tetra AL10



Our heritage, our future

We believe that better technology is the answer to our customers' environmental challenges. We are confident that we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison. Throughout our 130-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by searching and developing next generation clean technologies. Our goal is to be a leader in bringing clean energy, air and improved quality of life to the world's citizens. GE Lighting has combined its luminaire and LED expertise to bring unmatched product quality and reliability together in an integrated approach. With a full understanding of customers' needs, we have developed an advanced and effective system.

Outdoor applications

Site, area and general lighting utilising advanced LED optical systems providing uniformity, improved vertical light distribution, reduced both off-site and on-site glare and effective security light levels.

Indoor applications

Flexible LED solutions offer unlimited design possibilities. GE LED systems provide function and improved aesthetics, easier installation, less frequent maintenance and consistent performance in lighting designs. Robust, long-life systems allow maximum performance in a variety of indoor applications.

Choosing the right fitting

Highways, streets, industrial areas, commercial and residential environments areas – GE has carefully selected a range of lamps and luminaires that offer specific benefits, depending upon what lighting effects you require.

Outdoor lighting

Designing a lighting scheme for a stretch of road is by no means as simple as it may first appear. There are guidelines that advise on the required brightness levels, and widely available information on the energy efficiency of different lighting types. Given the huge public investment involved, one of the main requirements for traffic lighting is the highest illuminance for the least cost, so high efficacy, long-life sources are the standard. For safety and security reasons, outdoor lighting must also create highly uniform lighting on the road surface, with minimum glare.

In addition, cities and towns are becoming 24 hour venues with ongoing activity, day or night. In order to facilitate this 24/7 operation we need light; but the lighting solution needs to provide more than just functional illumination. It also needs to be aesthetically pleasing both during daylight hours and whilst in operation.

With all these requirements in mind GE Lighting manufactures a comprehensive range of outdoor lighting fittings. The range provides lighting solutions for secondary residential roads, through to highways and motorways and decorative amenity lighting fittings to help create a more pleasing environment.



Indoor lighting

For industrial and commercial environments, the use of appropriate illumination systems is essential for profitable growth, greater safety in the workplace, improved productivity and reduced error and reject rates. The design of the “most appropriate illumination system” is not limited to easily quantifiable aspects (energy savings, efficacy, etc.), but must also pay heed to qualitative aspects, such as visual comfort and the appearance of the installation.



Quality and technology

Top quality techniques and advanced technology for best results

GE Lighting constantly works on new technology and new top quality products. Registered licensed international institutions support GE in the testing process. Every year the Company invests significant capital for in-house research and development to meet customers' needs and expectations. From the planning to the final product, GE Lighting tests safety, performance and quality in its laboratories. Tests are in accordance with domestic and international laws and laboratory equipment is chosen to provide complete reliability of results.

Certifications

Products and systems in accordance with high quality standards

UNI EN ISO 9001

From 1997 GE Lighting's quality system is certified to UNI EN ISO 9001.

ISO 14001

In June 2000 GE Lighting was awarded ISO 14001 Certificate: another acknowledgment of our quality standards.



All GE Lighting products carry CE mark: an EU declaration of conformity that allows free circulation in the European market. Applicable Directives to lighting fittings are: Low Voltage Directive 2006/95/EC (amended by Directive 93/68/EEC) and Electromagnetic Compliance (EMC) Directive 2004/108/EC (amended by Directive 93/68/EEC, Directive 92/31/EEC and Directive 91/263/EEC).



Most of our lighting fittings and their components have been granted free circulation by ENEC Mark Licence (European Norms Electrical Certification). ENEC is the European certification mark of conformity to the standards EN for the luminaires and their components instituted within Cenelec by 20 European organizations of electric certification for the mutual acknowledgement of a single mark. On the side of the ENEC Mark is specified the country that issued the certification. The ENEC mark is based on the application of the following principles:

- The manufacturer must have a firm quality system certified UNI EN ISO 9001.
- The product is inspected during production.
- The product is submitted for final approval.



Lighting design

GE & DIALux

DIALux: the free and complete software developed by DIAL for professional light planning is open to luminaires of all manufacturers. A software by planners for planners. Used by over 350,000 light planners and designers worldwide. Create your virtual worlds simply and intuitively with DIALux. Document your results in breathtaking, photorealistic visualizations. Delight your customers with daylight and artificial light scenarios through which they can glide with wild camera runs. Rely on the CAD data of other architecture programs and re-export your files easily. Or use any 3D models from the Internet – it's child's play.

While you plan creatively, DIALux determines the energy your light solution requires and supports you in complying with the respective national and international regulations.

DIALux is continuously being developed by a team of 20. You can plan in DIALux with the luminaires of the world's leading manufacturers and therefore have the greatest possible freedom in the design process. DIALux is free of charge and can be downloaded from the DIALux website in many languages.

The benefits at a glance:

- Simple, effective and professional light planning
- Latest luminaire data of the world's leading manufacturers
- Latest state of the art software always available
- Energy evaluation at the drop of a hat



ON-Street

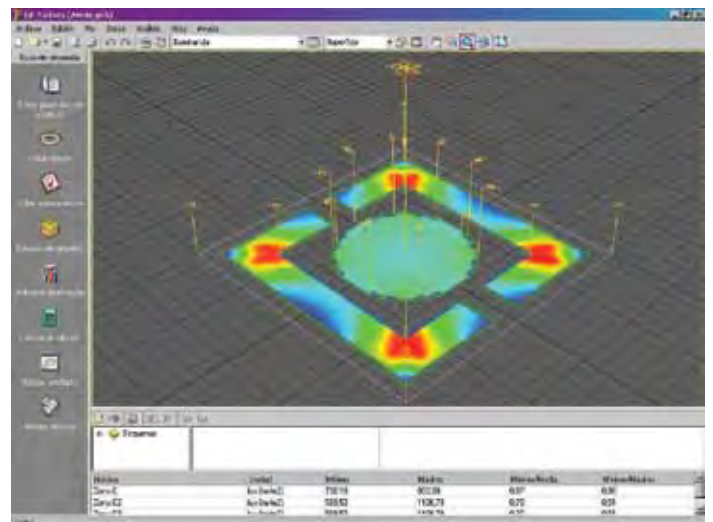
ON-Street is a new, sophisticated lighting calculation program from GE Lighting. Designed to run on Windows 98 or above, it offers straightforward calculations of all kinds of outdoor lighting applications.

The program is quick and simple to use and is adapted to all kinds of users, given that it is highly intuitive and includes video tutorials to ease the learning curve, while also allowing complex calculations to be effected by more advanced users (architectural offices, engineering firms, etc.).

The screen for selecting luminaires allows users to compare different products and set up luminaire classifications on the basis of one or more parameters they choose: type of luminaire, type of lamp, power, etc.

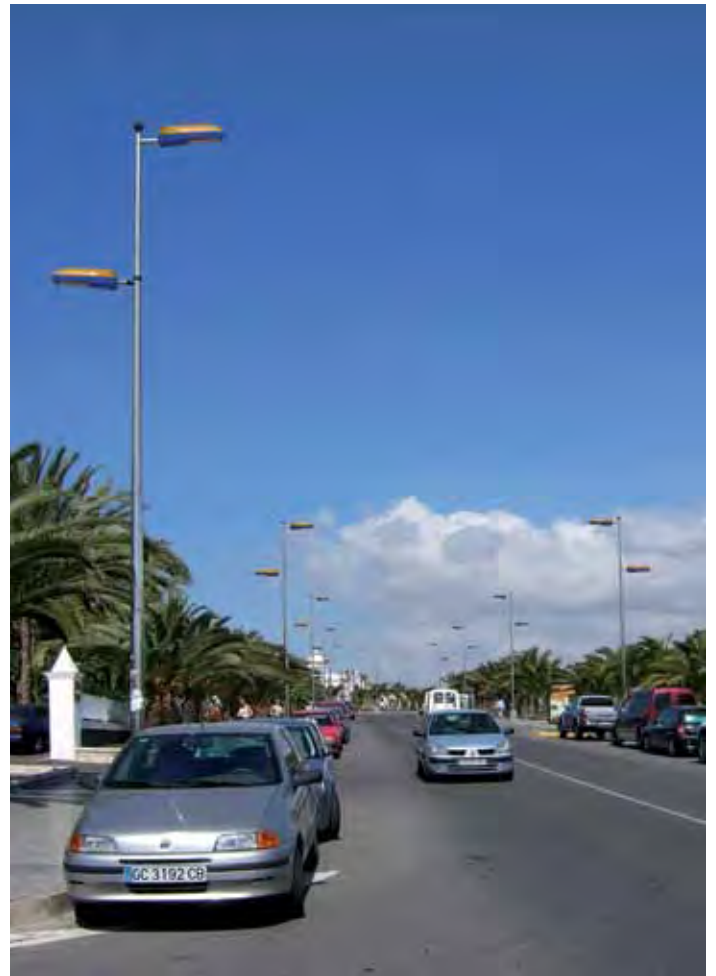
The ON-Street program, outcome of advanced software development work, offers a 3D view of the area under study, as well as the results obtained, throughout the whole calculation process. The program also allows for the importation of DXF drawing files, to be used as the basis for the calculation of lighting needs.

The program, apart from incorporating numerous pre-defined distributions, allows users to add an unlimited number of their own distributions for the same area of calculation. In line with international lighting recommendations, the ON-Street program allows road lighting calculations to be made in accordance with the CIE 30 or CIE 140 standard, with the additional option of calculating for an irregular arrangement of lighting points as defined by the user. A new feature incorporated into this program is a module that permits the calculation of lighting at simple roundabouts, with the possibility of locating the luminaires both around the outside and within the roundabout.



Points of light

The major undertakings of this century have profoundly modified the appearance of our cities – their architecture, urban furniture and street lighting are all integrated within one space and designed to increase the quality of life in our urban environments. On the other hand, we are currently witnessing a process of suburban expansion that is causing a sharp increase in motorised transport, particularly with regard to the use of private vehicles, and this is leading, in turn, to new and more intense demands in relation to road safety issues. Architects and industrial designers seek solutions for urban integration and we, at GE, are striving to reach a consensus on the most suitable lighting and its integration within diverse urban scenarios and spaces, offering customised decorative lighting solutions through the use of advanced infographic modelling techniques. The vast selection of luminaires in the Iberia range – together with the Syra, Duna, Iris, Euro, etc. – combined with our technical and aesthetic response to the demands of our clients, provide an infinite number of possibilities to local councils and architects.



High efficiency systems

We believe that better technology is the answer to our customer's environmental challenges. Our goal is to be a leader in bringing clean energy and improved quality of light to the world's citizens. Our research and development is supported by these three pillars: systems with high optical efficiency, systems with high energy efficiency & systems based on new technology such as LED.

Systems based on new technology such as LED



Systems with high optical efficiency

Systems with high energy efficiency

Systems based on new technology such as LED

These systems provide up to 60% energy savings, longer life and significantly improved light level uniformity compared with traditional HID lamp sources and optical systems.

The increase in both vertical and horizontal uniformity, combined with the high chromatic reproduction contributed by LED technology (white light), facilitates face recognition and visual comfort.



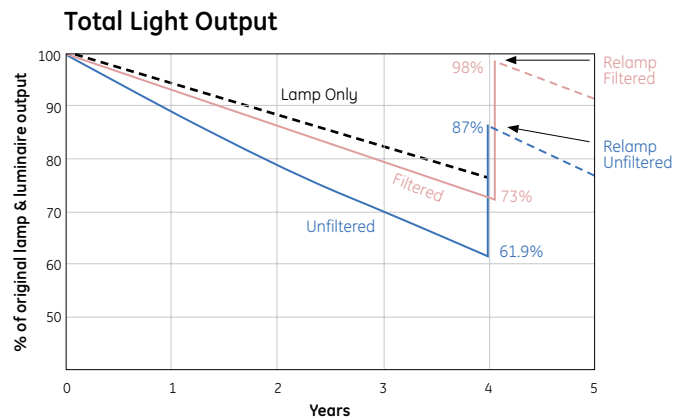
Systems with high optical efficiency

Thanks to the optimum design of the reflectors and the use of high purity aluminum in our luminaires, GE can guarantee high photometric performance, minimizing lighting emission towards the upper hemisphere.

Providing the ideal solution for each application's demand. The result is a lighting efficiency higher than 90%.

Activated charcoal filter: benefits for optical filtering system

A light, thin film of accumulated dirt can cause a significant loss in light output. Contaminants which affect light control and reduce efficiency, besides dirt particles of varying sizes, are vapours and gases which either corrode the optical control surfaces or deposit films that are subsequently baked on by the lamp heat. Not only does the filtered luminaire deliver more light at the end of a four year period (73% more), but at the time of re-lamping and cleaning the unit is nearly restored to its original condition. The non-filtered luminaire can only recover 87% of its original light output.



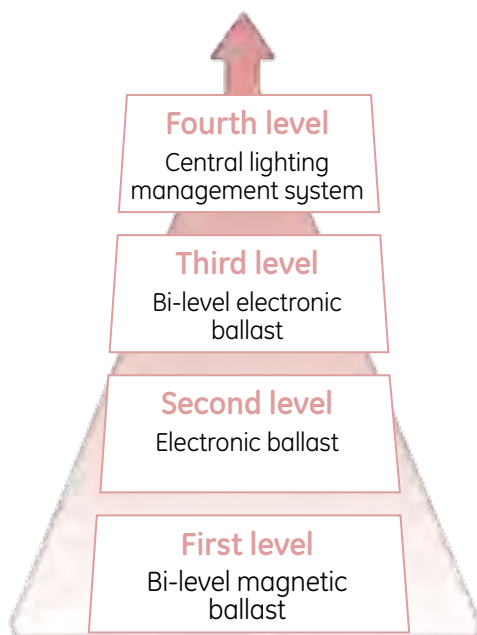
Systems with high energy efficiency

System efficiency is affected both by the lamp and the gear used for its operation. GE's lamps offer reduction of energy consumption whilst providing all the advantages of quality lighting.

	LPW	CRI [Ra]	Rated Life [h]
HID			
Ceramic Metal Halide	76-105	80-90	10,000-24,000
Quartz Metal Halide	60-100	65-93	2,000-20,000
High Pressure Sodium	66-192	22-25	12,000-55,000
Mercury	19-52	40-52	8,000-20,000
Fluorescent			
T5	33-95	51-80+	5,000-25,000
T8	37-93	51-93	7,500-24,000
Compact fluorescent			
Biax™ lamps	53-82	82	8,000-20,000

The switch from magnetic to electronic ballast provides energy savings of 10%. These high frequency ballasts reduce lumen degradations caused by lamp wall blackening, allowing an extension of the lamp life, reducing relamping period and associated maintenance expenses.

The next step of further energy savings is the use of bi-level electronic ballasts: the luminance reduction at night when user frequency is lower, can be achieved either with or without a control line. This solution provides fully automatic control gear that will change over to night-time power reduction at the appropriate time, day after day, depending on the time of year.



GE Lighting offer can be adapted to any Lighting Management system.

Satisfied citizens

- Detection of possible failures in advance, before causing inconveniences to the citizens.
- Improved safety for pedestrian and car circulation.

Savings on electricity costs

- 10% saving as a result of using electronic ballast.
- 15% wall blackening prevention.
- Up to 40% reduction by dimming down light during night time and adjusting light to the exact amount needed.

Savings on maintenance

- Maximize performance of the lighting installation and ensure that the maximum number of street lights are working at any given time.
- Identify lamp on/off/ end of lamp life issues.
- Extend maintenance periods through exact knowledge about the status of every lamp.
- Create maintenance routines which include lamp replacement prior to failure avoiding the need for unnecessary bulk lamp changes.
- Immediate information about network status.

Consideration for environment

- Optimization of obtrusive light by dimming light levels at night.

Advanced light sources

LED solutions

At GE, we have an outstanding track record in designing and building award winning LED solutions. Our world-class engineers combine the best available components with innovative optical, electrical and thermal designs to create LED lamps and systems that are optimized for superior performance.

Infusion™ LED Module

It is a fully replaceable light source that incorporates energy efficient, long life LED technology for traditional fixtures. This is the first generation of GE Lighting's new family of replaceable modules designed for the indoor space.



Full range of retrofit LED lamps

GE's LED retrofit reflector lamp solutions offer substantial opportunities to reduce energy consumption and maintenance costs in applications where directional, high quality light is required. The range consists of GU10, R50, R63 and PAR30 lamps.



GE Lighting's LED Decor range delivers incandescent-like sparkling and diffuse light effects combined with energy efficiency. Available in clear and frosted finishes, the range encompasses candle, spherical, globe and miniature GLS shapes that can fit all existing fixtures with E14, E27 and B22 sockets.

ConstantColor™ CMH Ultra

GE Lighting's latest generation of ConstantColor™ CMH Ultra 35W and 70W lamps with G12 and G8.5 bases, and 35W Supermini and MR16 lamps have been specifically designed with retail users in mind. This new range delivers improved lumen maintenance and enhanced quality of light while still retaining market leading long life of 15,000 hours. CMH Ultra is the ultimate solution when specifying new store builds or re-lamping existing store fixtures.



GE offers a comprehensive range of lamps. For detailed information please refer to our Spectrum lamps catalogue.

ConstantColor™ CMH StreetWise

GE Lighting's new ceramic metal halide lamps for street lighting offer installations with high efficiency, safe and comfortable lights. The new CMH StreetWise lamps offer a high quality white light alternative for mercury, HPS and standard CMH solutions for outdoor applications.



Lucalox™ XO

GE Lucalox™ High Pressure Sodium lamps for street lighting and industrial applications offer outstanding efficacy, extremely long life and reliability to meet increasing performance expectations and new regulations in these market segments.



GE's Watt-Miser™ range



This high-quality fluorescent range is ideal for office, retail, property management, commercial and industrial applications where lighting is a significant part of your energy costs and hence very significant energy savings can be made. The range consists of T5 Watt-Miser™, T8 Watt-Miser™ and 2D Watt-Miser™ lamps.

GE's LongLast™ range

These lamps provide a way to achieve great savings by providing extra long life and lower maintenance costs. They are suited to all retail, domestic, office and other commercial environments and are the natural choice for all fluorescent lighting applications. The range consists of T5 LongLast™, T8 LongLast™ and CFL Biax™ LongLast™ lamps.



Coming soon

Floodlight LED

Floodlight LED has been developed to meet a variety of lighting needs across three different applications: architectural, floodlighting and signage. An extremely flexible and versatile LED solution, this new launch from GE Lighting ensures an excellent quality of light - targeted where required - and a long system life of 50,000 hours.

Product features:

- 5 different lighting distributions
- 3000, 4000, 6000K colour temperatures
- 50,000 hour life time
- 95W maximum system consumption



Tunnel LED

Tunnel LED Luminaire is specifically designed for lighting tunnels and underpasses. This new LED luminaire helps to create a safe environment for traffic with white light for improved visibility and comfort - as well as an outstanding six years/24 hours a day operation from the same light source.

Product features:

- Better uniformity on the ground
- Three optical options: symmetric & asymmetric distributions
- White light (5700K CRI 70)
- Low power density (W/m²) and long life resulting in reduced maintenance = excellent payback
- For ceiling and side wall mounting
- Dimming compatible



Road LED



Best in Class Award

The new LED Road luminaire features an advanced LED optical system that provides improved horizontal and vertical uniformity, reduced glare and improved lighting control compared with traditional metal halide lighting systems. It provides a 15 to 30 percent reduction in system energy consumption and an estimated service life of more than 10 years (50,000-hour rated life), reducing maintenance frequency and need.

Product features:

- High efficiency to meet rigorous photometric requirements
- System rating 50,000 hours to reduce maintenance
- White light with desirable colour temperature 5700K and 4000K with CRI 70 for visual comfort
- Remote monitoring and control enabled

Odyssey Size 2



HID roadway luminaire up to 250 W for main roads, side roads and amenity areas.

Product features:

- Complete Odyssey range for wattages up to 250W
- Double IP 66 to minimise maintenance and lower operation costs
- Optimised optics for maximum spacing
- Vertical and horizontal mounting for flexible and easy installation
- Electronic and dimmable ballasts for greater energy savings

LED Garage Light

LED Garage Light is specifically designed for applications such as parking decks with low mounting heights. Utilizes high brightness LED's, with a typical CRI of 70 at 6000K. Available with eight different mounting options providing a versatile product to meet almost any field installation condition.



Product features:

- Better uniformity on the ground.
- Reflector made with highly reflective material to improve lumen output.
- Polycarbonate lens to protect against vandalism.
- White light (6000K CRI 70).
- For ceiling installation.

NEW TECHNOLOGY

LED Outdoor



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LED Indoor



LED COVE
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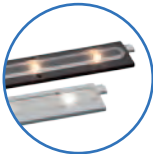
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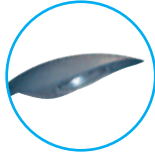
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OUTDOOR DECORATIVE

Road Lighting



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Street Decorative



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INDOOR DECORATIVE

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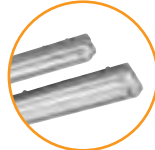


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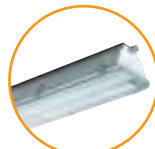
Water Proof



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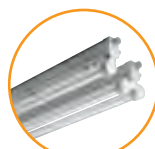
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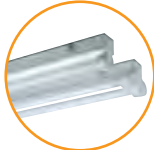


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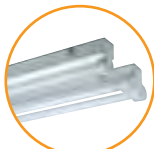
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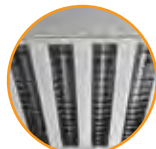
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Residential Lighting



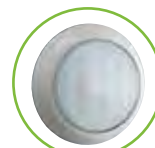
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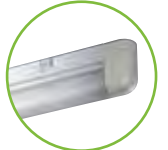
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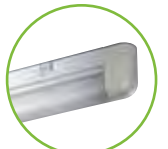
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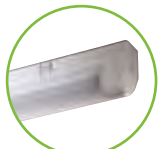
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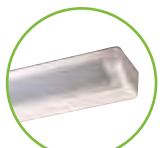
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NEW TECHNOLOGY





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LED AREA LIGHTER



RAL 9011 IP65 IP44 23-26 KG



Application

Site, area and general lighting utilizing advanced LED optical system providing high uniformity, improved vertical light distribution, reduced both off site & on site glare and effective security light levels.

Technical specification

A classic, aesthetic and futuristic luminaire, combining strength, reliability and incorporating all the features of a new generation fitting. Optimum photometric performance using LED technology, minimizes light emission towards the upper hemisphere and a high degree of protection.

Structure and material

- Die cast aluminium housing. Slim architectural design incorporates a heat sink directly into the unit ensuring maximum heat transfer.
- Corrosion resistant polyester powder painted.
- Standard colour: black. RAL and custom colours available.

Electrical and gear compartment

The control gear is situated in an independently mounted compartment in the optical assembly.

Optics

Optical assembly hermetically sealed providing IP65.

Thanks to the advanced LED optical systems the fixture provide high uniformity and improved vertical light distribution:

- Type III: asymmetric distribution (street type) – 132W system consumption
 - Type IV: asymmetric distribution – 94W system consumption
 - Type V: symmetric distribution – 210W system consumption
- CRI >70, CCT 5700 Kelvin.

Maintenance

50,000 hours rated LED life, L85 for low maintenance.

Installation

- Side entry mounting to 60mm diameter poles.
- Mounting arm for round pole (89 to 115mm diameter) with easy-connect terminal board.



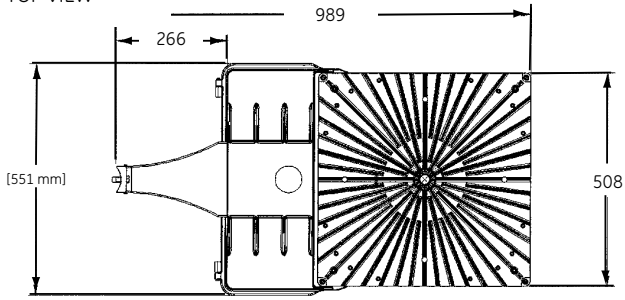
Recognized Winner



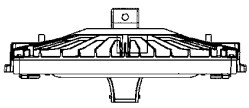
Dimensions (mm)

ARM MOUNT – ROUND POLE ONLY

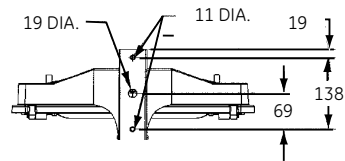
TOP VIEW



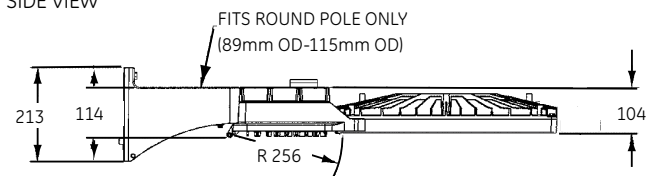
FRONT VIEW



BRACKET VIEW

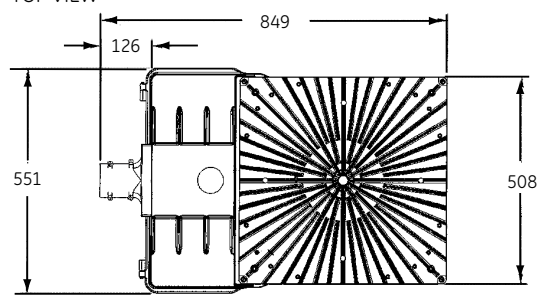


SIDE VIEW

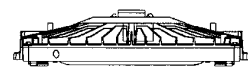


POLE MOUNT

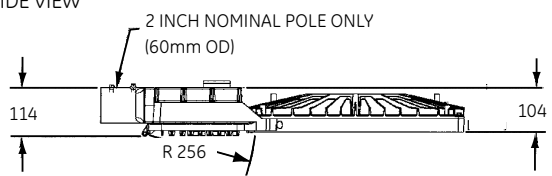
TOP VIEW



FRONT VIEW



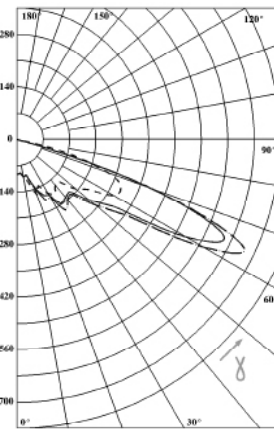
SIDE VIEW



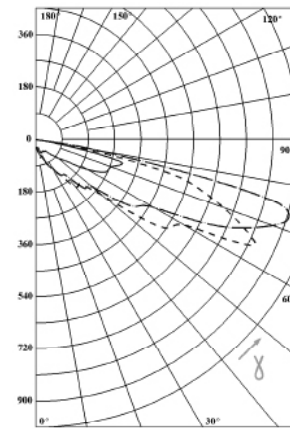
Photometric data

- Type III: asymmetric distribution (street type).
- Type IV: asymmetric distribution.
- Type V: symmetric distribution.

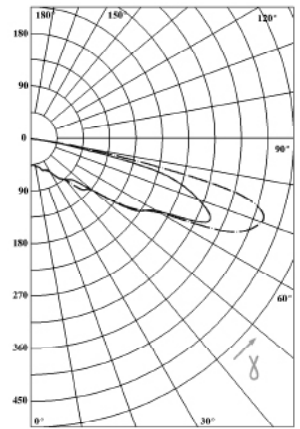
- Longitudinal ———
- Transverse - - - - -
- Principal - · - · - ·



Distribution Type III



Distribution Type IV



Distribution Type V

LED Area Lighter

CEI 34.21 /EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK09
 Optic IP65 – Control gear IP44
 Luminaire supplied complete with LED

Wattage [W]	Product description	Optics	Product code
210	EVOL SYMS5/N SP254 R9011	Type V	75698
132	EVOL ASYW3/F SP254 R9011	Type III	75699
94	EVOL ASYF4/F SP254 R9011	Type IV	75700

Mounting: with a mounting arm for round pole with easy connect terminal board SP254.

LED Area Lighter

CEI 34.21 /EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK09
 Optic IP65 – Control gear IP44
 Luminaire supplied complete with LED

Wattage [W]	Product description	Optics	Product code
210	EVOL SYMS5/N AT60 R9011	Type V	75701
94	EVOL ASYF4/F AT60 R9011	Type IV	75702
132	EVOL ASYW3/F AT60 R9011	Type III	75703

Mounting: side entry mounting for 60 mm diameter pole.



OXIDON GREY

IP65

IP44

IK10

10.6 KG



Application

Due to the different options and versatility, it is suitable for all architectural and urban environments, also for regular roadway lighting.

Technical specification

Iberia LED is a decorative LED luminaire. In wattages up to 90W, it is available with symmetrical and asymmetrical distributions. The flexibility of the different options that are available means it is suitable for all applications in amenity lighting, pedestrian lighting and squares.

Structure and material

Elliptical die-cast aluminium housing fixed to the central ring with three screws for a perfect fixing and sealing and a hinged die-cast aluminium door that supports the optical assembly. Standard colour oxidon grey.

Fixing system that provides multiple configurations (see accessories section).

Electrical and gear compartment

Placed into the elliptical housing and isolated from the environment with a protection degree IP44.

The driver support board is manufactured in galvanized sheet, mounted into the central ring.

Electronic elements are mounted on this board.

Optics

Optical assembly hermetically sealed providing IP65.

Due to the advanced LED optical systems, the fixture provides high uniformity and improved vertical light distribution.

- Type III: asymmetric distribution (street type) – 90W system consumption
 - Type IV: asymmetric distribution – 63W system consumption
 - Type V: symmetric distribution – 90W system consumption
- CRI 70, CCT 4100 and 5700 Kelvin.

Maintenance

50,000 hours rated LED life, L85 for low maintenance.

Accessories/options

- Post-top mounting on Ø60 or 76mm column, available in single, double or triple.
- Side-entry mounting on Ø60mm bracket.
- Wall mounting.

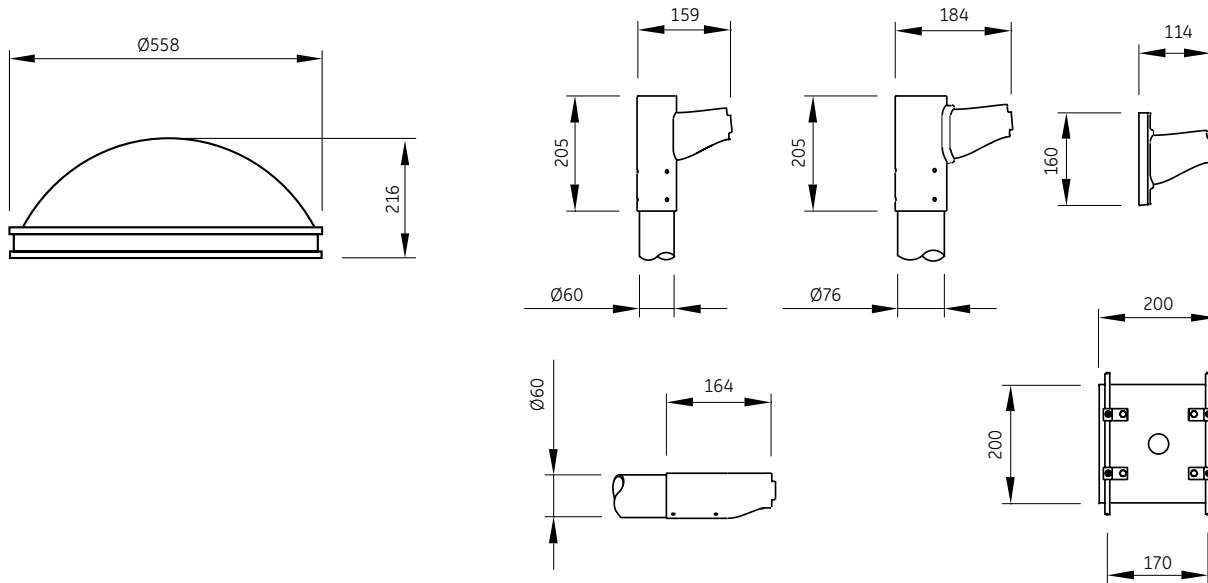


Recognized Winner

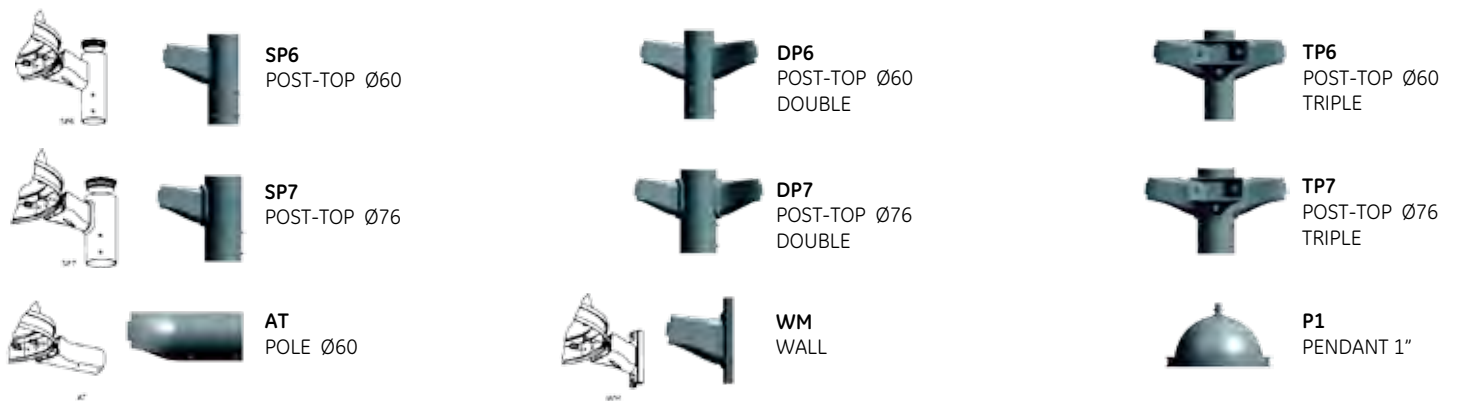


See page 48 for other Iberia lighting solutions

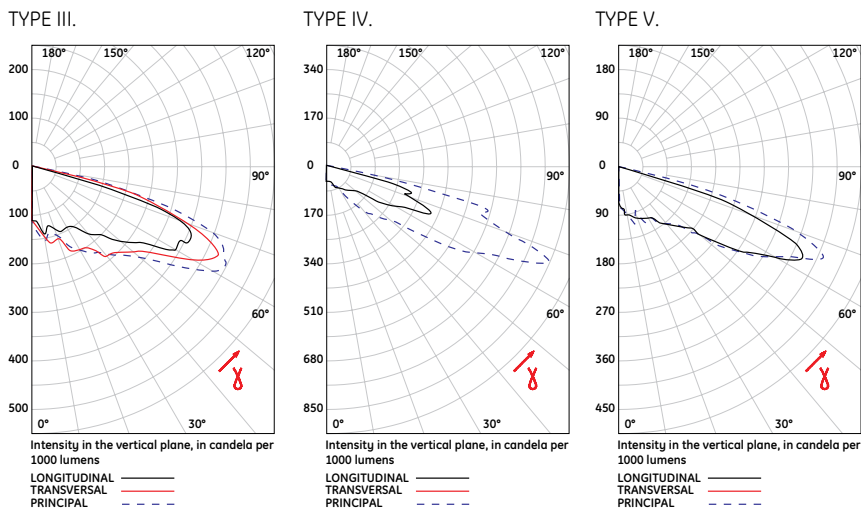
Dimensions (mm)



Mounting device



Photometric data

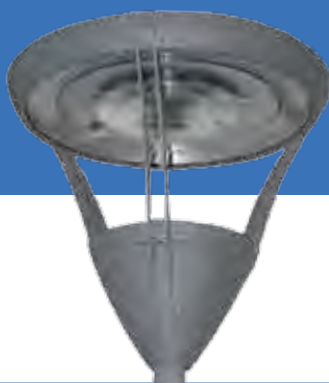


IBERIA LED

CEI 34.21 / EN 60598-1, IEC 60 - 230V 50Hz - Class I - IK10/08
 Optic IP65 - Control gear IP44
 Luminaire supplied complete with LED

Wattage (W)	Product description	Product code
90	IBERIA/E/LED ASY3/41 GRIS 150 SABLE	78106
63	IBERIA/E/LED ASY4/41 GRIS 150 SABLE	78112
90	IBERIA/E/LED SYM5/41 GRIS 150 SABLE	78107

Product codes for 5700K types to be advised



OXIDON GREY

IP65

IP65

IK10

12-17 KG



Application

Perfect combination between aesthetics and functionality, makes the luminaire ideal for efficient lighting of residential areas, parks and gardens, commercial centres, pedestrian walkways, squares, etc.

Technical specification

Duna LED is a decorative luminaire of truncated cone design using LED technology up to 90W with symmetrical and asymmetrical distribution.

Structure and material

- Base: die cast aluminium. Pole mounting device includes a PG-13.5 cable gland for a perfect seal.
- Body: die cast aluminium, with three decorative arms and two rings. Standard colour: grey oxidon.
- Upper housing: one-piece spun aluminium.

Electrical and gear compartment

The control gear is mounted on an removable universal tray. The luminaire includes a supply terminal board with electrical disconnection system once the fixture is opened. Isolated from the environment with a protection degree IP65.

Optics

Optical assembly hermetically sealed providing IP65. Thanks to the advance LED optical systems, the fixture provides high uniformity and improved vertical light distribution.

- Type III: asymmetric distribution (street type) – 90W system consumption
 - Type IV: asymmetric distribution – 63W system consumption
 - Type V: symmetric distribution – 90W system consumption
- CRI 65, CCT 4100 and 5700 Kelvin.

Maintenance

50.000 hours rated LED life, L85 for low maintenance.

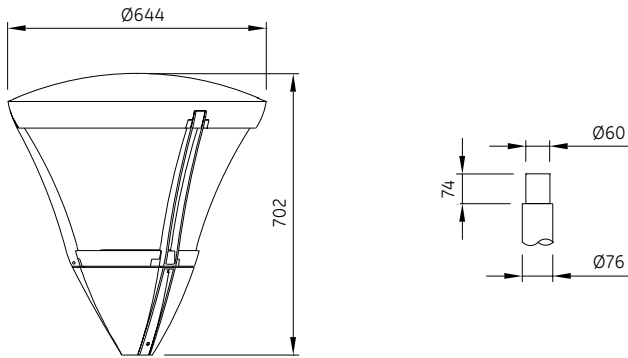
Installation

Post-top mounting for 60mm diameter poles.



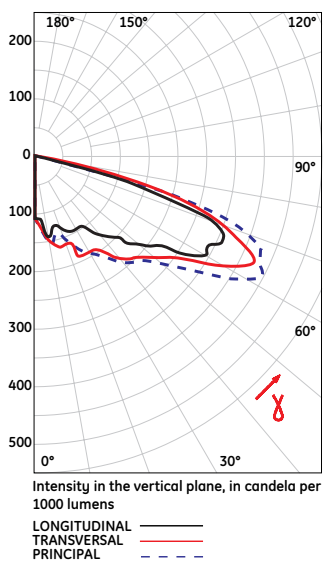
See page 56 for other
Duna lighting solutions

Dimensions (mm)

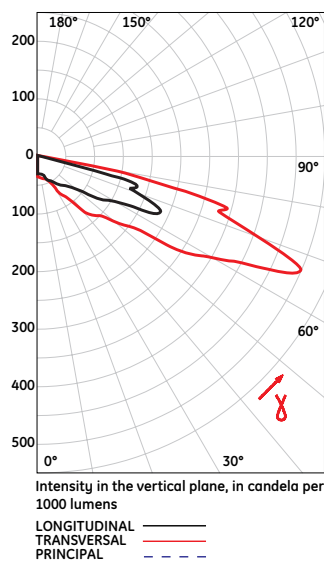


Photometric data

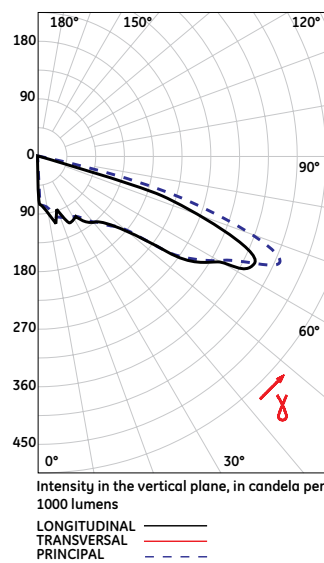
TYPE III



TYPE IV.



TYPE V



DUNA LED

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10
 Optic IP65 – Control gear IP65
 Luminaire supplied complete with LED

Wattage (W)

Optics

Post-top mounting for 60mm diameter poles

90	Type III	ASYMMETRIC DISTRIBUTION (STREET TYPE)
63	Type IV	ASYMMETRIC DISTRIBUTION
90	Type V	SYMMETRIC DISTRIBUTION



Application

The GE LED Cove Lighting System is specially designed for illumination of high maintenance linear coves in hotels, offices, casinos, cornice areas (indoor use only). Each LED fixture consumes 6.5 watts only and delivers quality white light at outstanding efficiency – up to 49 lumens per watt. The system is powered directly from line voltage thanks to its integral electronics.

Technical specification

Structure and material

Easy-to-use mounting tracks and fewer system components allow for quick and simple on-site assembly. The 30cm fixture lengths allow lighting around curves and corners, then obstacles can be worked around using convenient jumper cables. The wire harness on each end of the fixture is robust and flexible enough to enable more than a 90° angle between fixtures. Advanced thermal management design optimises efficiency, performance and life.

Electrical

The Class II power supply integrated into each fixture enables up to 330 units to be run from a single main outlet.

Integrated technology eliminates the need for remote mounting power supplies. Hard usage 16-gauge wire with quick-connect plugs eliminates complex wiring and enables long runs.

GE LED Cove can be dimmed when used with electronic low voltage (ELV) reverse phase control dimmer. No additional components are required.

Optical distribution

System design delivers uniform light and eliminates shadows. LED Cove emits light through a 120° forward distribution.

Cut-to-fit mounting tracks available in 0°, 15° or 30° angles securely lock fixtures into place to provide straight and accurate illumination in the cove.

- CRI 70, CCT 2700 & 3000K,
- CRI 77, CCT 4100K

Maintenance

LED system life of 50,000 hours (LM70).

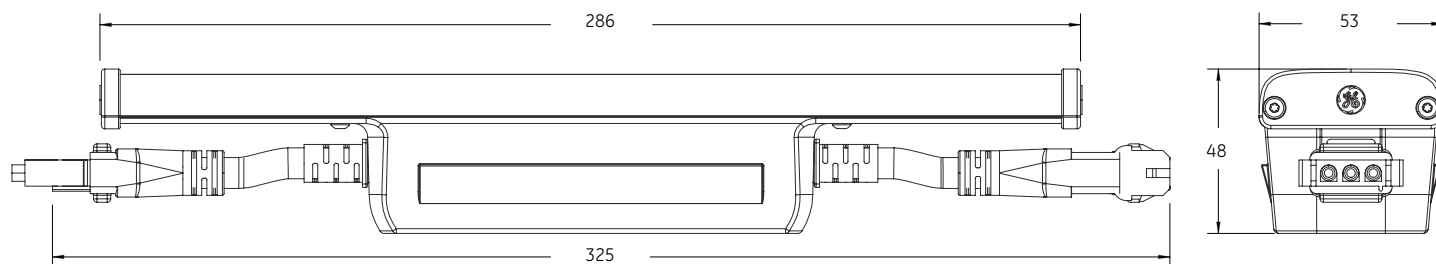
Accessories

- 3 and 12m leader cables to connect first fixture to a power outlet
- 1m jumper cable to manage around corners
- 1.2m mounting track in 0°, 15° & 30° angles

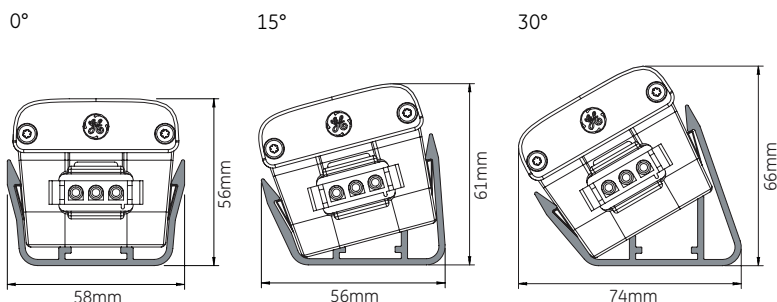
Why choose LED Cove?

- Reduced energy costs
- Decreased maintenance costs
- Lowered installation costs
- Dimmable system
- GE reliability

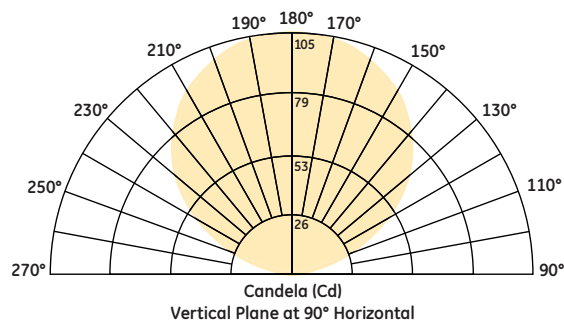
Dimensions (mm)



Mounting tracks



Photometric data



IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>

Cove Lighting System – LED fixtures

Product code	Product description	Wattage [W]	Volts [V]	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Length [mm]	Pack qty
73100	LC12/727/240V	6.5	220-240	290	2700	70	50,000	325	10
73101	LC12/730/240V	6.5	220-240	300	3000	70	50,000	325	10
73826	LC12/741/240V	6.5	220-240	320	4100	77	50,000	325	10

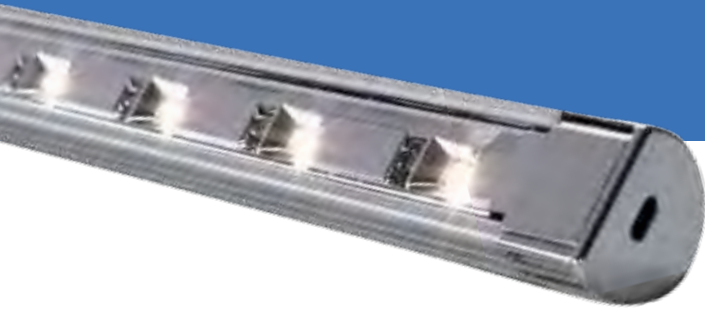
Cove Lighting System – Mounting track

Product code	Product description	Track Angle [°]	Length [mm]	Pack qty
73105	LC-MT48/0	0	1219	25
73106	LC-MT48/15	15	1219	25
73107	LC-MT48/30	30	1219	25

Cove Lighting System – Jumper Cable (JC) & Leader Cable (LC)

Product code	Product description	Length [mm]	Pack qty
73616	LC-JC/1m/CE	1,000	1
73617	LC-LC/12m/CE	12,000	1
73618	LC-LC/3m/CE	3,000	1

LED DISPLAY CASE



ALUMINIZED IP50 IP52 IK04 <1 KG



Application

This lighting system is the first custom-designed LED product for retail display case applications. It has been created to achieve dramatic lighting effects in glass cases without having to accept large power loads. The sparkling light provided by patented GE optics enables valuable merchandise to stand out whilst the high level of light in the case attracts customers from afar. Ideal for jewellers, department stores, museums.

Features

Structure and material

Every lightbar is made from sleek anodized aluminium which provides an attractive finish to 'blend' with the display case. Recessed and unobtrusive design protect LEDs from damage and eliminates need for protective lens. Unique finned design keeps case contents and surface cool while providing thermal management without the need for fans. Lightbars are available in 8 different lengths and 2 colour temperatures. Sizes increase in small increments, enabling a closer edge-to-edge fit.

Optical distribution

Display Case system uses multiple LED sources combined with unique reflector optics. It delivers outstanding uniformity and sparkle effects throughout the case unlike traditional lighting technologies which create undesirable shadows, light spillage and glare.

Electrical

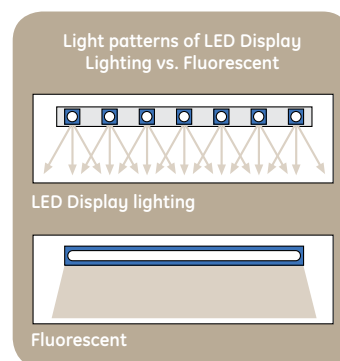
Low-voltage 12VDC design reduces complex wiring and simplifies installation – saving time and labour expenses. One power supply unit supports up to 2.4 linear metres of light fixtures, and maximum remote mounting distance is 0.9 m.

Maintenance

LED system life of 50,000 hours (LM70).

Accessories

Multiple mounting scenarios provide flexibility when designing the lightbar into case structure. Lightbars can be installed at 45 degrees in the corner of the case without affecting light distribution and quality. The mounting clips range is compatible with various installation methods. For instance, it allows retrofit onto some existing glass cases which use drop tubes.



IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>

Dimensions (mm)

TOP VIEW



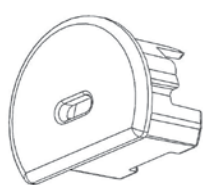
SIDE VIEW



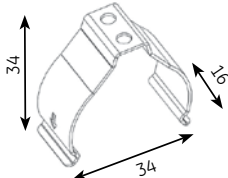
Product description	Dimension [mm]		
	Length (L)	Width (W)	Depth (D)
LB24/35K & LB24/42K	564	33	25
LB30/35K & LB30/42K	716	33	25
LB36/35K & LB36/42K	869	33	25
LB42/35K & LB42/42K	1021	33	25
LB48/35K & LB48/42K	1173	33	25
LB54/35K & LB54/42K	1326	33	25
LB60/35K & LB60/42K	1478	33	25
LB72/35K & LB72/42K	1783	33	25

Accessories

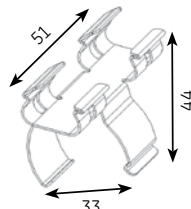
FINISHING COVER



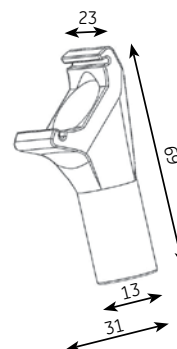
MOUNT CLIP (STAND ALONE)



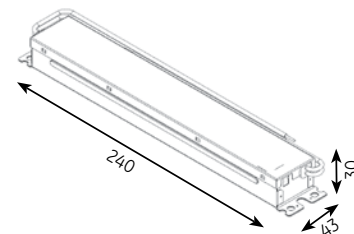
MOUNT CLIP (INTEGRATED)



DROP TUBE MOUNT



LED DRIVER



Display Case System – LED lights, CCT 3500K

Product code	Product description	System wattage* [W]	Illuminance (Ave, Lux)**	CCT [K]***	Life [L70, h]	Pack qty
74217	LB24/35K	17.3	1500	3500	50000	1
74218	LB30/35K	21.6	1500	3500	50000	1
74219	LB36/35K	25.9	1500	3500	50000	1
74220	LB42/35K	30.2	1500	3500	50000	1
74221	LB48/35K	34.6	1500	3500	50000	1
74222	LB54/35K	38.9	1500	3500	50000	1
74223	LB60/35K	43.2	1500	3500	50000	1
74224	LB72/35K	51.8	1500	3500	50000	1

Display Case System – LED lights, CCT 4200K

Product code	Product description	System wattage* [W]	Illuminance (Ave, Lux)**	CCT [K]***	Life [L70, h]	Pack qty
74225	LB24/42K	17.3	1500	4200	50000	1
74226	LB30/42K	21.6	1500	4200	50000	1
74227	LB36/42K	25.9	1500	4200	50000	1
74228	LB42/42K	30.2	1500	4200	50000	1
74229	LB48/42K	34.6	1500	4200	50000	1
74230	LB54/42K	38.9	1500	4200	50000	1
74231	LB60/42K	43.2	1500	4200	50000	1
74232	LB72/42K	51.8	1500	4200	50000	1

* Typical system power consumption including driver losses, when driven by recommended GE power supply – product code 74601

** Average lux on horizontal surface in 51x152cm glass case with mirror back at 30cm vertically from light source and with light source mounted 2.5cm from front edge

*** Colour temperature (CCT) +/-5%

Accessories

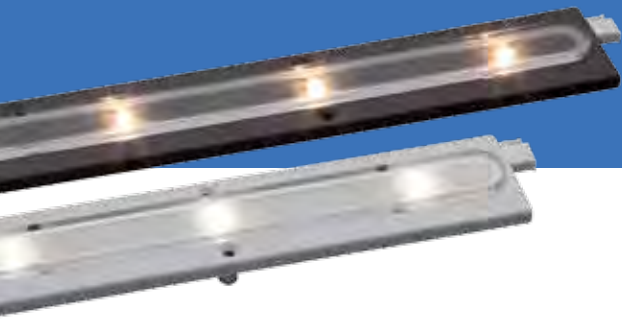
Product code	Product description	Item	Dimensions (Height x Width x Depth) [mm]	Pack qty
74241	LB-WIRE-END (BEAUTY COVER)	Finishing Cover	25x33x3*	20
74243	LB-CLIP	Mount Clip (Standalone)	34x34x16	20
74244	LB-EXT-CLIP	Mount Clip (Integrated)	44x33x51	20
74245	LB-TUBE-MOUNT	Drop Tube Mount	69x23x31	20

* Visible length when inserted into end cap

LED Driver

Product code	Product description	Input Volts [V]	Wattage [W]	Output Voltage [VDC]	Pack qty
74601	GE060/G/V12T1-A	220-240	60	12	1

LED TETRA AL10



Application

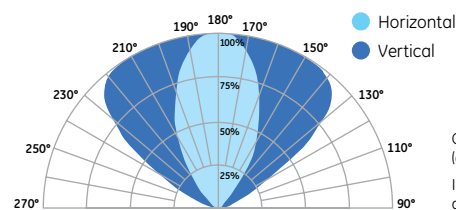
This linear LED system combines versatility with superb quality of light. High colour rendering (93 CRI) and stable colour temperatures enables it to meet the high standards of the lighting industry. Replacing fluorescent technology in a variety of retail and architectural applications, this slim and modular fixture offers multiple lengths, beam angles and mounting angles - making it easy to incorporate into a wide array of applications.

Backed by a reputation for reliability in the LED market, this robust and low-voltage system is rated to last 50,000 hours - reducing material and labour expenses associated with fluorescent relamping. Combined with reduced energy consumption - up to 40% compared to T5 fluorescent - Tetra AL10 lowers significantly operating costs. Ideal for cove, retail under shelf, under cabinet, accent and task lighting.

Features

- Slimline and low weight
- High colour rendering
- Multiple colour temperatures (warm & neutral)
- High light levels
- Low energy consumption
- Two fixture length & two body colours that can be combined
- Multiple beam and viewing angles
- Long rated life of 50,000 hours (LM70)
- Low-voltage 12VDC system
- Fully dimmable: 0-10V
- No UV or IR light emitted
- Contains no lead, mercury or glass - RoHS compliant

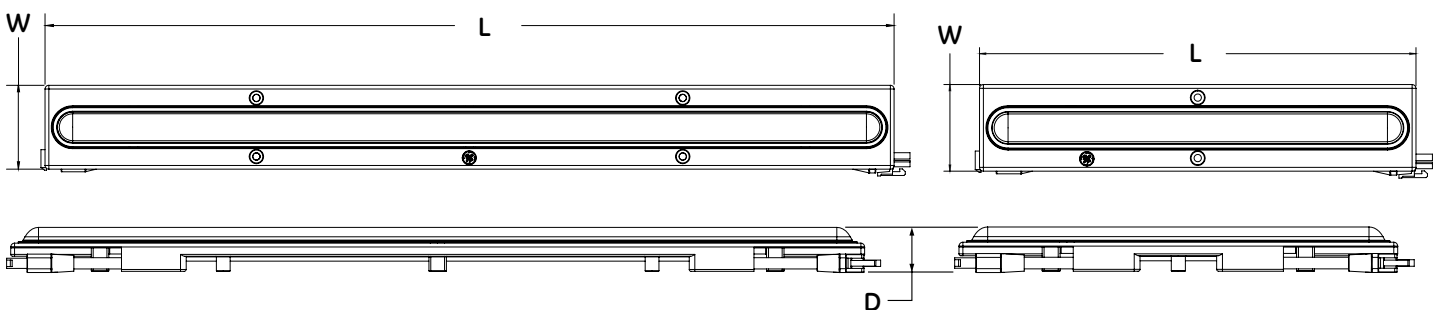
Photometric Data



Candela (Cd) for 60° Clear lens version (datasheet extract).

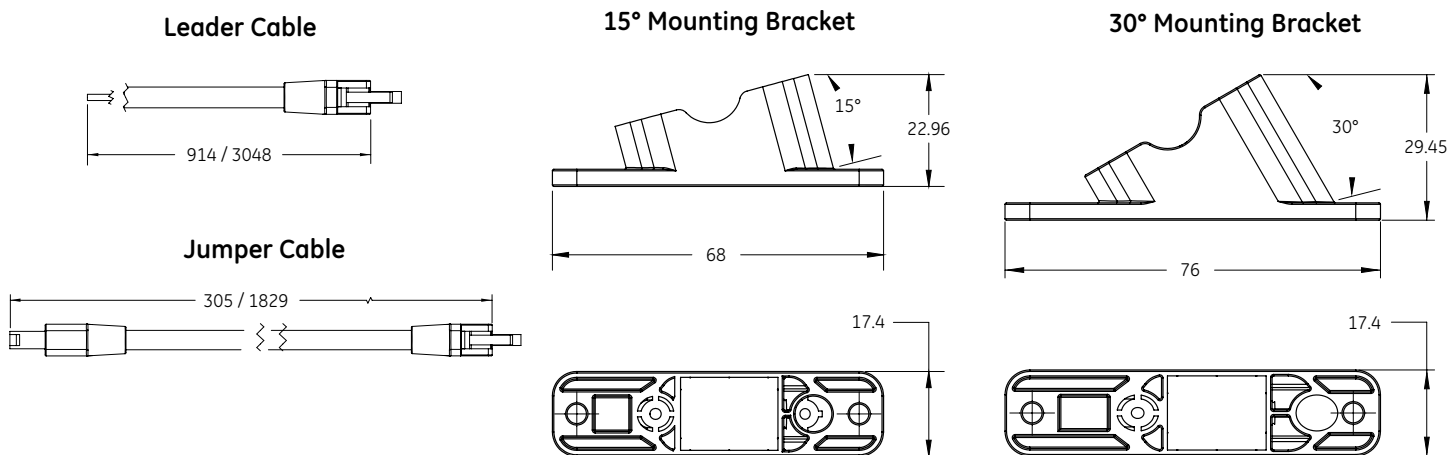
IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>

Dimensions (mm)



Lens Type	460mm dimension [mm]			230mm dimension [mm]		
	Length (L)	Width (W)	Depth (D)	Length (L)	Width (W)	Depth (D)
60° Clear	460	45	23.38	230	45	23.38
90° Clear	460	45	21.81	230	45	21.81
120° Clear	460	45	18.70	230	45	18.70
120° Soft	460	45	23.38	230	45	23.38

Accessories



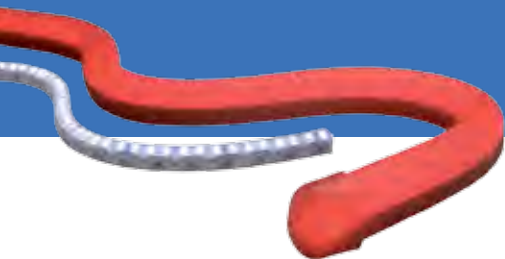
AL10 – LED modules

White Fixture		Grey Fixture		Voltage [V]	CCT [K]	CRI [Ra]	Lens Type	Length [mm]	Lumens per module	Watts per module	Lumens per Watt	Pack Qty
Product Code	Description Code	Product Code	Description Code									
78867	LPL-W18-060C-927	78893	LPL-G18-060C-927	12	2700K	93	60° clear	460	290	6.8	43	10
78855	LPL-W09-060C-927	78881	LPL-G09-060C-927	12	2700K	93	60° clear	230	145	3.4	43	10
78871	LPL-W18-090C-927	78896	LPL-G18-090C-927	12	2700K	93	90° clear	460	290	6.8	43	10
78858	LPL-W09-090C-927	78884	LPL-G09-090C-927	12	2700K	93	90° clear	230	145	3.4	43	10
78874	LPL-W18-120C-927	78899	LPL-G18-120C-927	12	2700K	93	120° clear	460	290	6.8	43	10
78861	LPL-W09-120C-927	78887	LPL-G09-120C-927	12	2700K	93	120° clear	230	145	3.4	43	10
78878	LPL-W18-120D-927	78902	LPL-G18-120D-927	12	2700K	93	120° soft	460	290	6.8	43	10
78864	LPL-W09-120D-927	78890	LPL-G09-120D-927	12	2700K	93	120° soft	230	145	3.4	43	10
78868	LPL-W18-060C-930	78894	LPL-G18-060C-930	12	3000K	93	60° clear	460	300	6.8	44	10
78856	LPL-W09-060C-930	78882	LPL-G09-060C-930	12	3000K	93	60° clear	230	150	3.4	44	10
78872	LPL-W18-090C-930	78897	LPL-G18-090C-930	12	3000K	93	90° clear	460	300	6.8	44	10
78859	LPL-W09-090C-930	78885	LPL-G09-090C-930	12	3000K	93	90° clear	230	150	3.4	44	10
78875	LPL-W18-120C-930	78900	LPL-G18-120C-930	12	3000K	93	120° clear	460	300	6.8	44	10
78862	LPL-W09-120C-930	78888	LPL-G09-120C-930	12	3000K	93	120° clear	230	150	3.4	44	10
78879	LPL-W18-120D-930	78903	LPL-G18-120D-930	12	3000K	93	120° soft	460	300	6.8	44	10
78865	LPL-W09-120D-930	78891	LPL-G09-120D-930	12	3000K	93	120° soft	230	150	3.4	44	10
78870	LPL-W18-060C-940	78895	LPL-G18-060C-940	12	4000K	93	60° clear	460	320	6.8	47	10
78857	LPL-W09-060C-940	78883	LPL-G09-060C-940	12	4000K	93	60° clear	230	160	3.4	47	10
78873	LPL-W18-090C-940	78898	LPL-G18-090C-940	12	4000K	93	90° clear	460	320	6.8	47	10
78860	LPL-W09-090C-940	78886	LPL-G09-090C-940	12	4000K	93	90° clear	230	160	3.4	47	10
78877	LPL-W18-120C-940	78901	LPL-G18-120C-940	12	4000K	93	120° clear	460	320	6.8	47	10
78863	LPL-W09-120C-940	78889	LPL-G09-120C-940	12	4000K	93	120° clear	230	160	3.4	47	10
78880	LPL-W18-120D-940	78904	LPL-G18-120D-940	12	4000K	93	120° soft	460	320	6.8	47	10
78866	LPL-W09-120D-940	78892	LPL-G09-120D-940	12	4000K	93	120° soft	230	160	3.4	47	10

AL10 – Accessories

Product Code	Description Code	Product Description	Quantity
74601	GE060/G/V12T1-A	LED Driver - 12VDC/60W	1/PK
74914	GE020/G/V12T1-B	LED Driver - 12VDC/20W	1/PK
78905	LC-36	Leader Cable - 914mm	5/PK
78906	LC-120	Leader Cable - 3048mm	5/PK
78907	JC-12	Jumper Cable - 305mm	5/PK
78908	JC-72	Jumper Cable - 1829mm	5/PK
78909	MB-W15	Mounting Bracket - White 15° Angle	20/PK
78910	MB-W30	Mounting Bracket - White 30° Angle	20/PK
78911	MB-G15	Mounting Bracket - Grey 15° Angle	20/PK
78912	MB-G30	Mounting Bracket - Grey 30° Angle	20/PK

LED TETRA CONTOUR



Application

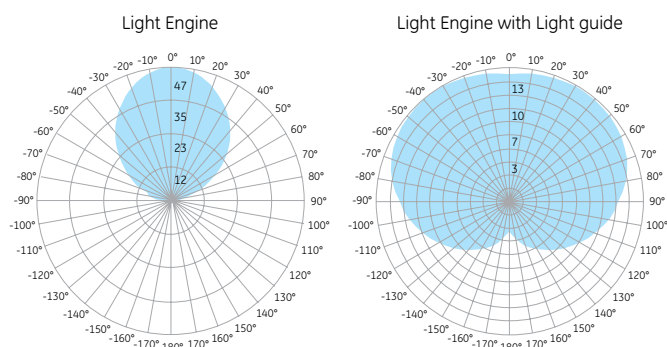
Tetra Contour is comprised of a flexible LED light engine and a rigid, optically diffused light guide that can be heat formed to fit a wide variety of architectural needs. With multiple colours to choose from, designers can mix-n-match components to create bold designs and attractive accent lighting without the typical worries of working with fragile neon glass.

Ideal for border lighting, interior art, cove and accent lighting.

Features

- Up to 40% more energy efficient than neon
- Wide range of stable colour temperatures (warm & white)
- High light levels
- Extra large viewing angle: 330° with light guide (110° without)
- Impact resistant: robust & overmolded design
- Easy installation
- Low voltage 24VDC system
- Contains no lead, mercury or glass - RoHS compliant
- Long rated life of 50,000 hours (LM70)
- High IP rating: IP66 (dry, damp or wet location use)
- Multiple LED light engine colours: white, red, green, blue
- Multiple Light guide colours: white, red, green, blue

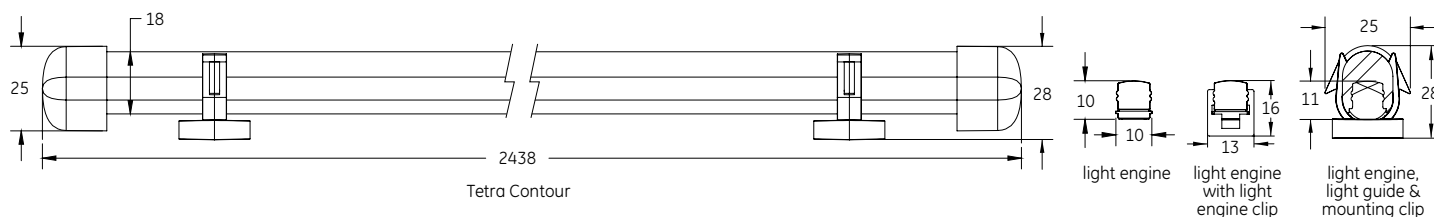
Photometric Data



Candela (Cd) measurements taken at 6500K.

IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>

Dimensions (mm)



Typical dimensions shown are in mm

Contour – LED light engines

Product Code	Description Code	LED Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	Viewing Angle (light engine w/ light guide)	Lumens per metre (light engine)	Lumens per metre (light engine w/light guide)	Watts per metre (light engine)	Watts per metre (system)	Pack Qty*
75481	GERDXNLE1-A	Red	625nm	110	330	194	154	10.63	12.50	12
75484	GEGLXNLE1-A	Green	532nm	110	330	331	180	9.45	11.12	6
75485	GEBLXNLE1-A	Blue	467nm	110	330	75	62	9.45	11.12	6
75487	GEWWXNLE1-27K-A	White	2700K	110	330	351	230	9.45	11.12	6
75488	GEWWXNLE1-30K-A	White	3000K	110	330	384	249	9.45	11.12	6
75489	GEWWXNLE1-35K-A	White	3500K	110	330	410	266	9.45	11.12	6
75490	GEWWXNLE1-40K-A	White	4000K	110	330	430	279	9.45	11.12	6
75493	GEWHXNLE1-50K-A	White	5000K	110	330	512	331	9.45	11.12	6
75486	GEWHXNLE1-65K-A	White	6500K	110	330	472	308	9.45	11.12	6

*Each LED light engine is 2.4 metres length

Contour – Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm ²)	152.4 m/PK
75494	GEXNWB2	Weather Box (Outdoor Use Only)	20/PK
75498	GEXNMCAC	Light Engine Mounting Clip	20/PK
75520	GEXNMC15	Light Guide Mounting Clip	50/PK
75537	GEXNBA	Silicone Bend-Aid (Reuseable)	12/PK
75541	GEXNLG15	Tetra Contour Light Guide (2.44m) - White	12/PK
75532	GEXNLGEC15	Tetra Contour Light Guide End Cap - White	20/PK
75533	GEXNLGC15	Tetra Contour Light Guide Connector - White	20/PK
74917	GE020/G/V24T1-B	LED Driver 24VDC/20W	1/PK
74915	GE080/G/V24T1-A	LED Driver 24VDC/80W	1/PK

To get full list of accessories, please download Contour "Parts Guide" at <http://www.gelighting.com/eu/led/>

Tetra Contour Light Guide



Light Guide End Caps



Supply Wire



Weather Box



Light Guide Connectors



Light Guide Corners



Light Guide Bend-Aid



Mounting Clips



LED TETRA MINIMAX



Application

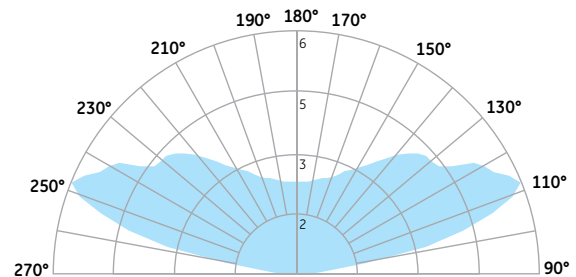
Tetra miniMAX is a low profile LED system that combines high-brightness with OptiLens™, a patent-pending optical lens that distributes brilliant and uniform light in a wide 155 degree angle. Therefore this unique fixture delivers a huge visual punch in small or shallow spaces. With several modules assembled on a flexible string, designers can fulfil a large number of architectural needs.

Ideal for cove, indirect and accent lighting.

Features

- Up to 40% more energy efficient than neon
- 2 LEDs per module
- Wide range of stable colour temperatures (warm & white)
- Ongoing performance with OptiLens™
- Large viewing angle: 155°
- Impact resistant: robust & overmolded design
- Easy to install & easy to handle
- Low voltage 12VDC system
- Contains no lead, mercury or glass - RoHS compliant
- Long rated life of 50,000 hours (LM70)
- Multiple LED modules colours: white, red, green, blue

Photometric Data

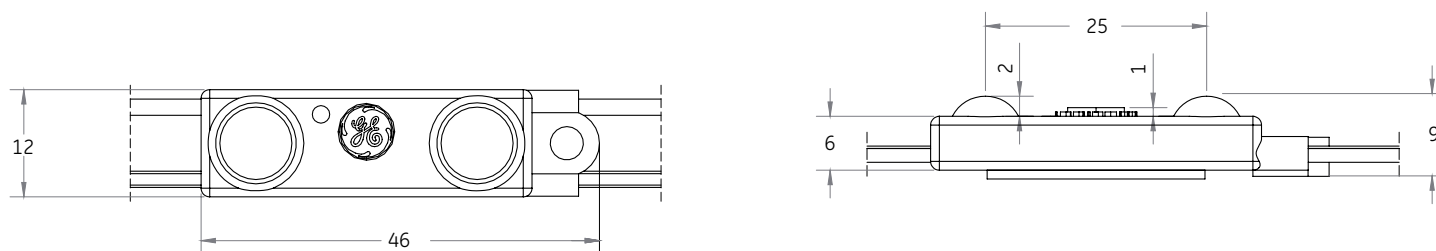


Candela (Cd) measurements taken at 6500K.

IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>



Dimensions (mm)



Typical dimensions shown are in mm

miniMAX – LED strings

Product Code	Description Code	LED Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	LEDs per module	Modules per metre	Lumens per module	Watts/module (Strip)	Watts/Module (System)	Pack Qty*
75596	GERDMMS5-27K-A	Red	626 nm	155	2	~8	10	0.624	0.749	5
75598	GEGLMMS5-27K-A	Green	530 nm	155	2	~8	24	0.624	0.749	5
75597	GEBLMMS5-27K-A	Blue	467nm	155	2	~8	7	0.624	0.749	5
75601	GEWWMMS5-27K-A	White	2700K	155	2	~8	18	0.624	0.749	5
75603	GEWWMMS5-30K-A	White	3000K	155	2	~8	19	0.624	0.749	5
75604	GEWWMMS5-35K-A	White	3500K	155	2	~8	21	0.624	0.749	5
75606	GEWWMMS5-40K-A	White	4000K	155	2	~8	22	0.624	0.749	5
75607	GEWHMMS5-50K-A	White	5000K	155	2	~8	26	0.624	0.749	5
75599	GEWHMMS5-65K-A	White	6500K	155	2	~8	24	0.624	0.749	5

*Each LED string contains 50 modules

miniMAX - Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm ²)	152.4 metres/PK
75608	192160005	22-18 AWG In-line Splice Connector (0.33-0.82 mm ²)	500/PK
74914	GE020/G/V12T1-B	LED Driver 12VDC/20W	1/PK
74601	GE060/G/V12T1-A	LED Driver 12VDC/60W	1/PK



LED TETRA POWERGRID



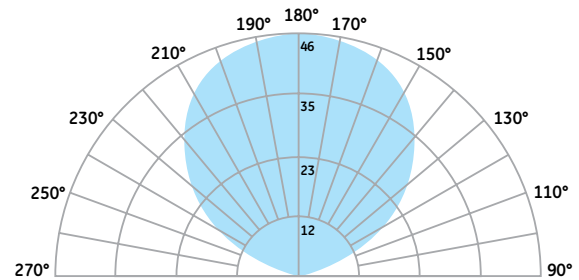
Application

Tetra PowerGrid is a modular, long-life and energy efficient LED system replacing fluorescent for applications that require broad and uniform lighting. With several modules assembled on a robust strip, this GE solution allows high-performance and steady illumination to emphasize various backlit areas. Ideal for backlighting walls, ceilings and under cabinets.

Features

- Up to 64% more energy efficient than fluorescent
- 6 LEDs per module
- Wide range of stable colour temperatures (warm & white)
- High light levels
- Large viewing angle: 120°
- Impact resistant: robust & overmolded design
- Easy to install & easy to handle
- Low voltage 24VDC system
- Contains no lead, mercury or glass - RoHS compliant
- Long rated life of 50,000 hours (LM70)

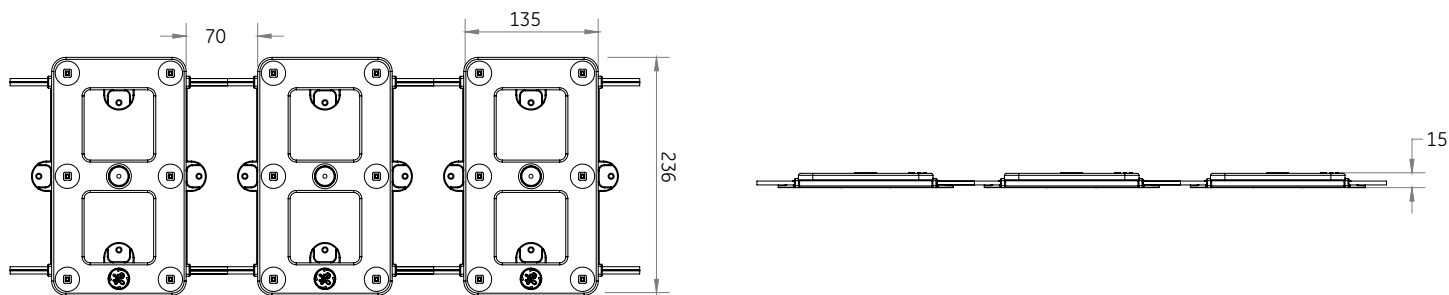
Photometric Data



Candela (Cd) measurements taken at 6500K.

IES and LDT files can be downloaded at <http://www.gelighting.com/eu/led>

Dimensions (mm)



Typical dimensions shown are in mm

PowerGrid – LED strips

Product Code	Description Code	LED Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	LEDs per module	Modules per metre	Lumens per module	Watts/module (Strip)	Watts/Module (System)	Pack Qty*
75547	GEWWPGP6-27K-A	White	2700K	120	6	~5	94	3,6	4,2	1
75548	GEWWPGP6-30K-A	White	3000K	120	6	~5	102	3,6	4,2	1
75549	GEWWPGP6-35K-A	White	3500K	120	6	~5	110	3,6	4,2	1
75550	GEWWPGP6-40K-A	White	4000K	120	6	~5	115	3,6	4,2	1
75551	GEWHPGP6-50K-A	White	5000K	120	6	~5	136	3,6	4,2	1
75552	GEWHPGP6-65K-A	White	6500K	120	6	~5	126	3,6	4,2	1

*Each LED strip contains 21 modules

PowerGrid - Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm ²)	152.4 metres/PK
75545	192160004	18-14 AWG In-line Splice Connector (0.82-2.08 mm ²)	500/PK
75546	GEPGEC1	18 AWG Wire End Caps (0.82 mm ²)	100/PK
74917	GE020/G/V24T1-B	LED Driver 24VDC/20W	1/PK
74915	GE080/G/V24T1-A	LED Driver 24VDC/80W	1/PK

VIO™ LED MR16 MODULE



ALUMINIZED

<1 KG



GE Vio™ LED MR16 Module

GE's award winning Vio™ LED technology is now available in an easy to use modular format that can be used in place of a 50mm halogen MR16 lamp, offering excellent quality of light and substantial energy saving possibilities.

Vio LED Technology

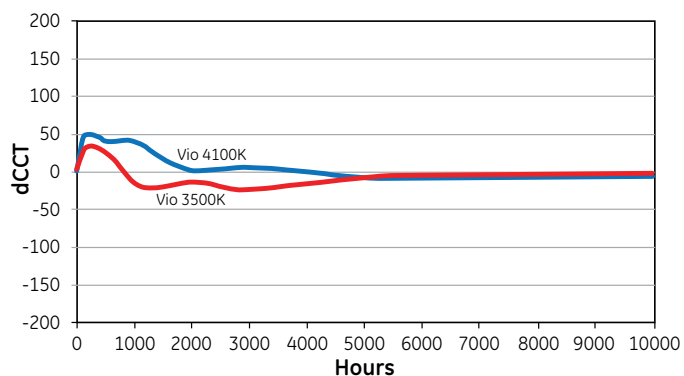
Vio™ LED technology combines efficient 405nm violet chips with GE proprietary multi-phosphors. The result is a very stable, high quality white light with minimal part-to-part colour variation. With a colour shift of less than 75 Kelvin over 50,000 hours, Vio™ LEDs can be used with confidence in general illumination applications.

Features and benefits

- Replaces MR16 lamps in recessed downlight and spotlighting applications
- 3.6 Watts for optimised energy saving
- Runs from 350mA constant current DC supply – compatible with range of LED drivers
- Dimensions smaller than MR16 lamp – same diameter, shallower depth
- Vio quality and stability of light – only available from GE
- 50,000 hours: L70
- High colour rendering index option
- Choice of three colour temperatures
- Attractive 'faceted reflector' appearance similar to halogen

The 7.2W version will complete the range. For more information please contact your local GE Lighting sales office.

Colour stability over life



Vio™ LED MR16 Module

Product Description	Candela (Cd)	Beam Angle	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	Product Code
VIO/G4/MODULE/3.6W/830	240	36	3000	85+	50,000	50	40	10	77476
VIO/G4/MODULE/3.6W/835	250	36	3500	85+	50,000	50	40	10	77477
VIO/G4/MODULE/3.6W/841	270	36	4100	85+	50,000	50	40	10	77481
VIO/G4/MODULE/3.6W/730	280	36	3000	70+	50,000	50	40	10	77499
VIO/G4/MODULE/3.6W/735	310	36	3500	70+	50,000	50	40	10	77502
VIO/G4/MODULE/3.6W/741	325	36	4100	70+	50,000	50	40	10	77503

Vio™ LED MR16 Module - Accessories

Product Description	Pack Qty	Product Code
Connector	10	77526
Vented bezel	10	78999
Non-vented bezel	10	78757
Mounting spring	20	78758

NEW Vio™ Module MR16 downlight kits from GE

GE's Vio™ modules are now available in kit format – with module, driver, cable, bezel and springs packaged in a single box with easy to follow assembly instructions. This enables a high quality LED downlight to be assembled that takes advantage of GE's award winning Vio™ LED technology without the need to order multiple accessories.

Product Description	Candela (Cd)	Beam Angle	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	Product Code
VIO MODULE KIT/3.6W/830	240	36	3000	85+	50,000	50	40	10	79320
VIO MODULE KIT/3.6W/841	270	36	4100	85+	50,000	50	40	10	79321



OUTDOOR DECORATIVE





Road lighting

STELA	40
COROL	42
OLYMPIA	44
BRISA & BRISA MINI	46

Street decorative

IBERIA PREMIUM	48
SYRA	52
DS/SCM RANGE	54

Urban decorative

DUNA PREMIUM	56
HISPALIS	58
VILLA PREMIUM	60
SUPRA-550	62

See also our LED solutions
for street lighting on page 20



FUENLABRADA, MADRID, SPAIN

Application

This luminaire is suitable for many applications such as roadways, ring roads, streets, industrial areas and housing developments.

Technical specification

A classic, aesthetic and futuristic luminaire, combining strength, reliability and incorporating all the features of a new generation fitting: optimum photometric performance, minimized light emission towards the upper hemisphere and a high degree of protection with low maintenance. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (housing and door), both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL9007). Support base suitable for horizontal mounting through $\varnothing 60\text{mm}$ diameter pole. Latch feature included in the lower housing, allowing an easy opening of the luminaire. Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44, comprising:

- The gear support tray is manufactured in galvanized steel and easily removed. Ballast, ignitor and capacitor are mounted on this board.
- The gear tray supports HPS ballast and Metal Halide from 150W to 400W.
- Electrical disconnection from the lamp utilizes a multi-polar switch.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curve tempered glass sealed to the reflector through silicone. The lens is mechanical and thermal shock resistant.
- E40 ceramic lamp holder. Multi-position support allowing lamp adjusting in longitudinal direction for optimal light distribution.
- High purity aluminium reflector in one-piece, finish achieved through anodizing process.
- Aluminium reflector neck. The lamp holder is mounted into the reflector neck through a silicone gasket ensuring an excellent ingress protection.

Maintenance

Tool-less access to the optic block by opening the latch placed into the lower housing.

Easy and quick lamp maintenance by manually removing the lamp holder support from the front of the luminaire.

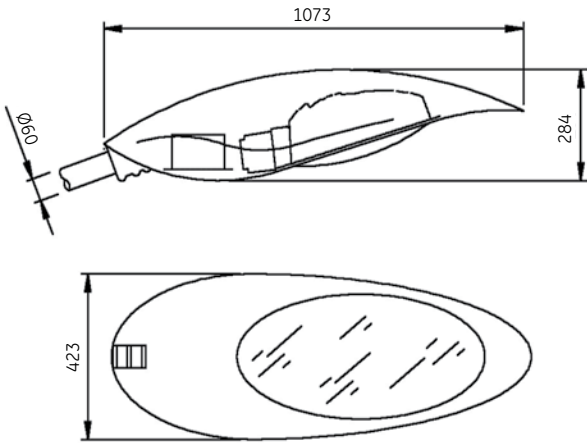
A two-latch mechanism releases the lamp holder from the neck of the reflector.

Accessories/options

Die-cast aluminium tilting mounting device, side entry and post top mounting is $\varnothing 60\text{mm}$, tilt in 5° steps horizontally and vertically.

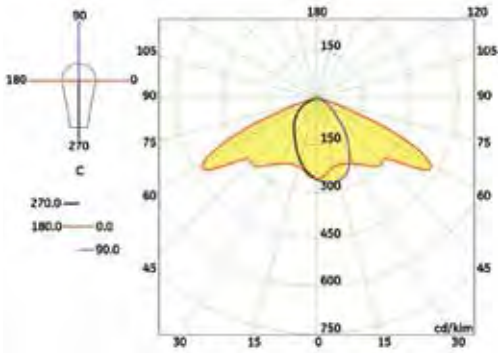
Dimensions (mm)

Structure

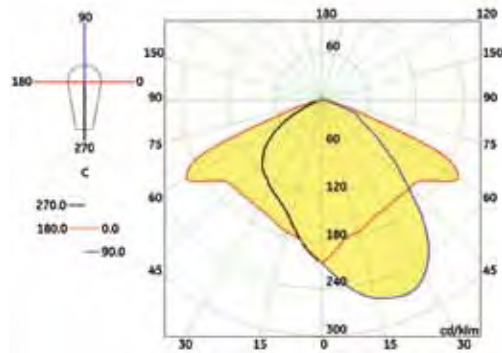


Photometric data

STELA HPS 250W



STELA HPS 400W



FUENLABRADA, MADRID, SPAIN

STELA

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK09
 Optic IP66 – Control gear IP44
 Luminaire supplied without lamp

Description	Lamp	Product code
STELA HPS 250W	LU250/T/40	519813
STELA HPS 400W	LU400/T/40	519814
STELA CMH 250 T U	CMH250/TT/UVC/U/830/E40	519816
STELA CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	519817

Options: RC – Bi power system
 C2 – Class II



RAL 9006

IP66

IP44

IK08

12-15 KG



Application

This luminaire is ideal for efficient lighting of both main roads, side roads, amenity and architectural sites, and industrial areas.

Technical specification

The Corol luminaire offers a modern aesthetic and it provides a unique lighting solution where the lighting level requirements are critical. The high-efficient photometric reflector is easy to maintain thanks to its IP66 optical assembly.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (housing and door), both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL9006).

Support base suitable for horizontal mounting through Ø60mm diameter pole. One unique latch included into the upper housing allowing an easy luminaire opening.

Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44, comprising:

- The ballast support tray is manufactured in galvanized sheet, easily removable. Ballast, ignitor and capacitor are mounted on the tray.
- The gear tray supports HPS ballasts from 150W to 400W and Metal Halide from 150W to 400W.
- Electrical disconnection from the lamp utilizes a multi-polar switch.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curve tempered glass sealed to the reflector through a silicone joint.
- E40 ceramic lamp holder. Multi-position support allowing lamp adjustment in longitudinal direction for optimal light distribution.
- High purity aluminium reflector in one-piece, finish achieved through an anodizing process.
- Plastic reflector neck, high-temperature resistant.
- The lamp holder is mounted into the reflector neck through a silicone gasket ensuring excellent ingress protection.

Maintenance

Tool-less access to the optic block by opening the latch placed into the upper housing.

Easy and quick lamp maintenance by manually removing the lamp holder support from the back of the luminaire.

A "twist and lock" mechanism releases the lamp holder from the neck of the reflector.

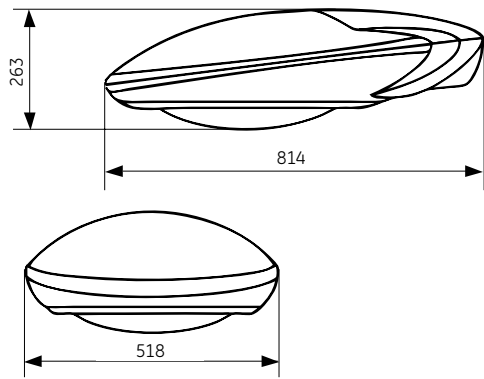
Accessories/options

Class II.

Electronic and bi-power ballast.

Dimensions (mm)

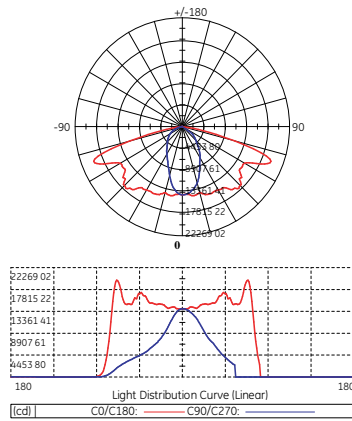
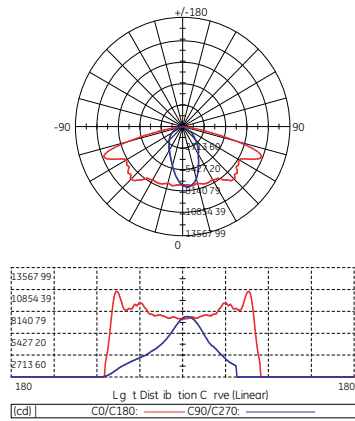
Structure



Photometric data

250W, HPS

400W, HPS



Ordering information

Type	Wattage	Lamp	Options
COR	150 W 250 W 400 W	HPS & MH	RC - Bi Power systems C2 - Class II

HPS - High pressure sodium
MH - Metal halide



RAL 9006

IP66

IP44

IK08

12-15 KG



Application

The luminaire is ideal for efficient lighting of main roads, residential roads, also commercial and industrial areas.

Technical specification

The Olympia luminaire offers a unique classical aesthetic that will suit many modern cities. Olympia is ideally designed to be installed at up to 16m. Operating with lamps up to 400W it provides a lighting solution where the lighting level requirements are demanding, with a highly efficient photometric reflector that's easy to maintain thanks to its IP66 optical assembly.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (housing and door), both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL9006).

Support base suitable for horizontal mounting through Ø54-62mm diameter pole. The spigot can be set in three steps (0°, 2.5°, 5°) when D=Ø 60mm , otherwise only 0° elevation.

Two latches included into the lower housing allow for easy luminaire access. Stainless steel screws.

Electrical and gear compartment

Placed into the upper housing and isolated from the environment with a protection degree IP44, comprising:

- The gear support tray is manufactured in galvanized sheet, easily removable. Ballast, ignitor and capacitor are mounted on this board.
- The gear tray supports HPS ballast from 150W to 400W and Metal Halide from 150W to 400W.
- Electrical disconnection from the lamp utilizes a multi-polar switch.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curve tempered glass sealed to the reflector through silicone.
- E40 ceramic lampholder. Multi-position support allowing lamp adjustment in longitudinal direction for optimal light distribution.
- High purity aluminium reflector in one-piece, finished achieved through a high purity anodizing process.
- Plastic reflector neck, high-temperature resistant. The lamp holder is mounted into the reflector neck through a silicone gasket to ensure an excellent ingress protection.

Maintenance

Tool-less access to the optic block by opening the latches placed into the lower housing.

Easy and quick lamp maintenance by manually removing the lamp holder support from the back of the luminaire.

A two-latch mechanism releases the lamp holder from the reflector neck.

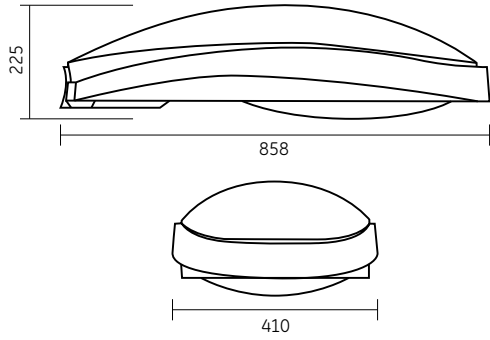
Accessories/options

Class II.

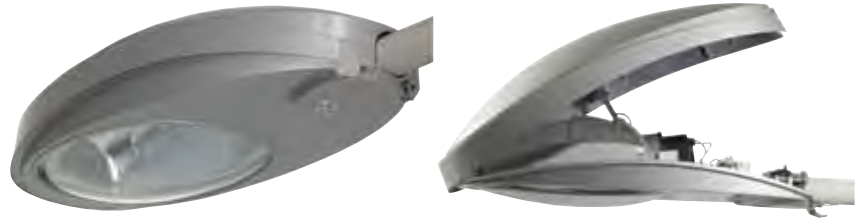
Electronic and bi-power ballast.

Die-cast aluminium tilting mounting device, side entry and post top mounting is Ø60mm, tilt in 5° steps horizontally and vertically.

Dimensions (mm)

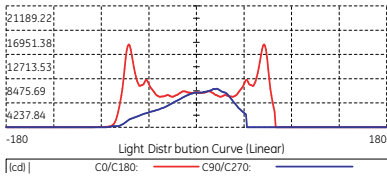
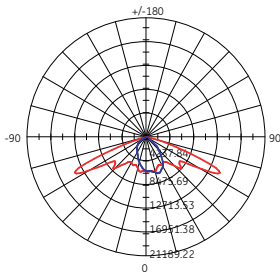


Structure

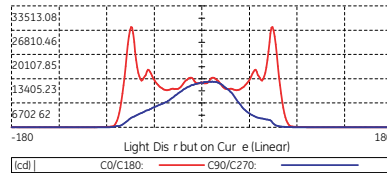
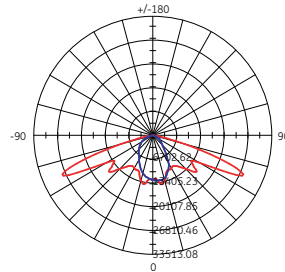


Photometric data

250W, HPS



400W, HPS



Ordering information

Type	Wattage	Lamp	Options
OLY	150 W 250 W 400 W	HPS & MH	RC – Bi Power systems C2 – Class II

HPS – High pressure sodium
MH – Metal halide

BRISA & BRISA MINI



BRISA	RAL 9006	IP66	IP44	IK09	15-20 KG	
BRISA MINI	RAL 9006	IP66	IP44	IK09	9-14 KG	



Application

The luminaire is ideal for efficient lighting of motorways, ring roads, streets, residential areas, industrial areas, footpaths and cycle-ways.

Technical specification

The Brisa and Brisa Mini luminaires are a perfect combination of both aesthetics and functionality, providing design and style to roadway lighting. Modern innovative shape combined with robust design, easy maintenance and the high-efficiency photometric reflector, makes for a superior outdoor lighting solution.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (housing and door) both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL9006).

Support base suitable for horizontal mounting through Ø40-60mm diameter pole for the Brisa luminaire and through Ø50-60mm for the Brisa Mini.

Latch included into the lower housing allowing easy luminaire access.

Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44, comprising:

- The ballast support tray is manufactured in galvanized sheet, easily removable. Ballast, ignitor and capacitor are mounted on the tray.
- The gear tray supports HPS and Metal Halide (MH) ballasts up to 400W and MH up to 250W for the Brisa luminaire and HPS, MH and Mercury Vapor up to 250W for the Brisa Mini.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curve tempered glass sealed to the reflector through silicone.
- E40 ceramic lampholder. Multi-position support allowing lamp adjustment in longitudinal and vertical directions for optimal light distribution.
- High purity aluminium reflector in one-piece, finish achieved through an anodizing process.
- Plastic reflector neck in the Brisa Mini and aluminium reflector for the Brisa, high-temperature resistant. The lamp holder is mounted into the reflector neck through a silicone gasket ensuring excellent ingress protection.

Maintenance

Tool-less access to the optic block by opening the latch placed into the lower housing.

Lamp accessed by removing the lamp holder manually, releasing the two latches that support the lamp holder from the neck of the reflector.

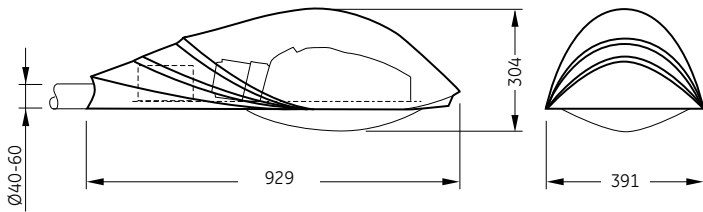
Accessories/options

Die-cast aluminium tilting mounting device, side entry and post top mounting is Ø60mm, tilt in 5° steps horizontally and vertically.

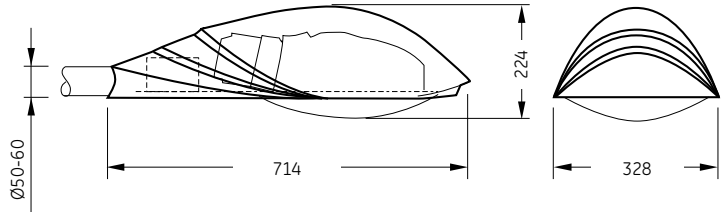
- Electronic version up to 150W
- Bi-level magnetic ballast
- Class II electronic gear

Dimensions (mm)

BRISA

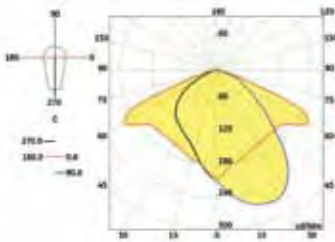


BRISA MINI

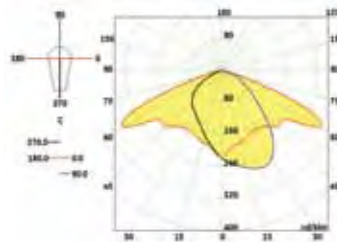


Photometric data

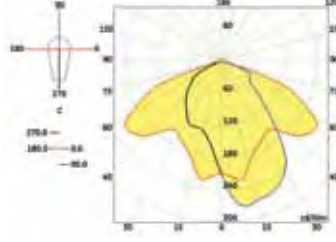
BRISA HPS250



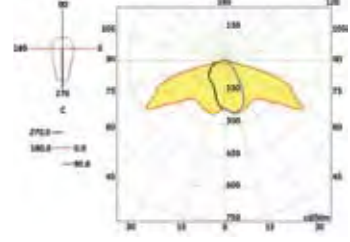
BRISA HPS400



BRISA MINI CMH150



BRISA MINI MH250



SAN CRISTOBAL DE LA LAGUNA TENERIFE, SPAIN

BRISA

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK09
 Optic IP66 – Control gear IP44
 Luminaire supplied without lamp

Description	Lamp	Product code
BRISA HPS 150W	LU150/100/40	87940
BRISA HPS 250W	LU250/T/40	519803
BRISA HPS 400W	LU400/T/40	519804
BRISA CMH 250W T U	CMH250/TT/UVC/U/830/E40	519806
BRISA CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	519807

Options: RC – Bi power system
 C2 – Class II

BRISA MINI

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK09
 Optic IP66 – Control gear IP44
 Luminaire supplied without lamp

Description	Lamp	Product code
BRISA MINI HPS 100W	LU100/100/XO/T/40	519808
BRISA MINI HPS 150W	LU150/100/40	519809
BRISA MINI HPS 250W	LU250/T/40	519810
BRISA MINI CMH 150 T U	CMH150/TT/UVC/830/E40	519811
BRISA MINI CMH 250 T U	CMH250/TT/UVC/U/830/E40	519812

Options: RC – Bi power system
 C2 – Class II
 EB – Electronic Ballast



StreetWise™



IBERIA PREMIUM GREY 150 SABLE IP66 IP44 IK10/08 9-12 KG



PASEO MARÍTIMO SANTOÑA, CANTABRIA, SPAIN

Application

Due to the different options and versatility it is suitable for all architectural and urban environments, also for regular roadway lighting.

Technical specification

The Iberia Premium range is used for outdoor decorative lighting. Thanks to its multiple lens types and shapes and the possibility of providing the support ring and the housing in different colours, it is possible to adapt the luminaire to different environments.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Die-cast aluminium central ring, elliptical die-cast aluminium housing fixed to the central ring with three screws for a perfect fit and seal and a hinged die-cast aluminium door that supports the optical assembly. The door includes two stainless steel screws for tool-less opening. Standard colour oxidon grey for the Iberia and grey 150 sable for Iberia Premium Fitting system that provides multiple configurations (see Accessories section).

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44.

The ballast support board is manufactured in galvanized sheet, mounted into the central ring, easily removable. Ballast, ignitor and capacitor are mounted on this board.

Allowing tubular lamp mountings for HPS and Metal Halide up to 250W and Mercury Vapor up to 125W.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Tempered glass or polycarbonate lens sealed to the door with silicone. The lens is mechanical and thermal shock resistant (IK8-10).
- Faceted aluminium reflector in one-piece, finish achieved through an anodizing process.
- E40 ceramic lamp-holder. Multi-position support allows lamp adjusting in longitudinal and vertical directions for optimal light distribution.
- Plastic reflector neck is high-temperature resistant. The lamp holder is mounted into the reflector neck through a silicone gasket to ensure a continuous seal.

Maintenance

Tool-less access to the ballast by unscrewing two knurled screws placed into the lower housing. Lamp and re-lamping access by removing the lamp holder manually and releasing the two latches.

Accessories/options

Wide range of mounting devices:

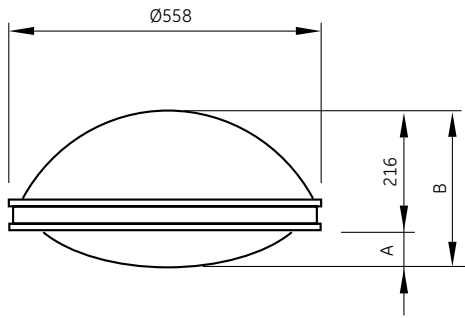
- Vertical tube mounting of Ø60 or 76mm. In easy assembly, single, double or triple.
- Vertical tube mounting of Ø60mm through yoke mounting. Incorporates one-piece yoke of die-cast aluminium with two brackets fitted to the support ring.
- Horizontal tube mounting of Ø60mm.
- Wall mounting.
- Optional Class II electronic gear.
- Electronic version up to 150W.
- Bi-level magnetic ballast.



NEW Iberia LED
See page 20

Dimensions (mm)

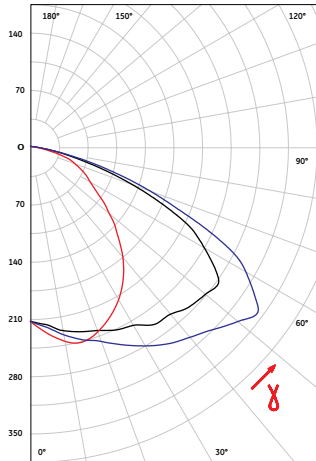
IBERIA PREMIUM



	SM/SC	EM/EC	DC	VC	VT
A (mm)	201	128	67	59	0
B (mm)	417	344	283	275	218

Photometric data

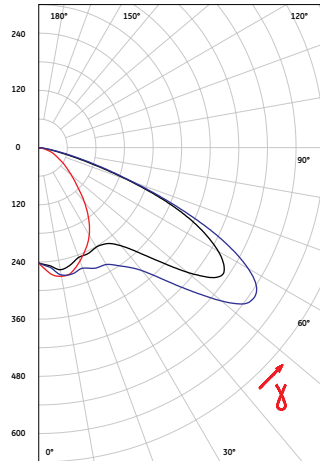
IBERIA/SM/MH125
POS. PORTA. 1A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

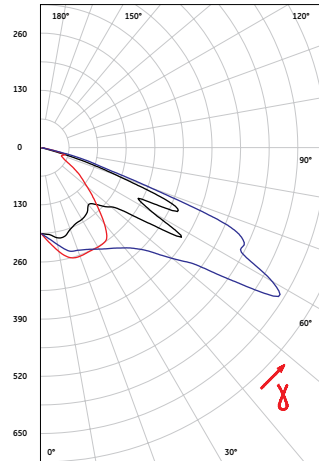
IBERIA/EM/VHPS70
POS. PORTA. 2A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

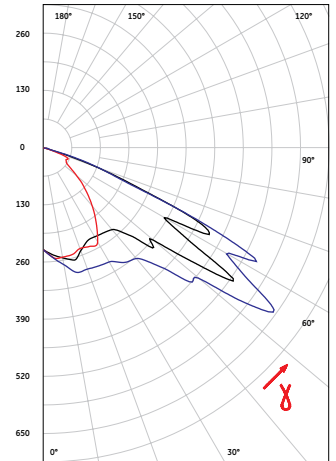
IBERIA/SC/VHPS150
POS. PORTA. 2A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

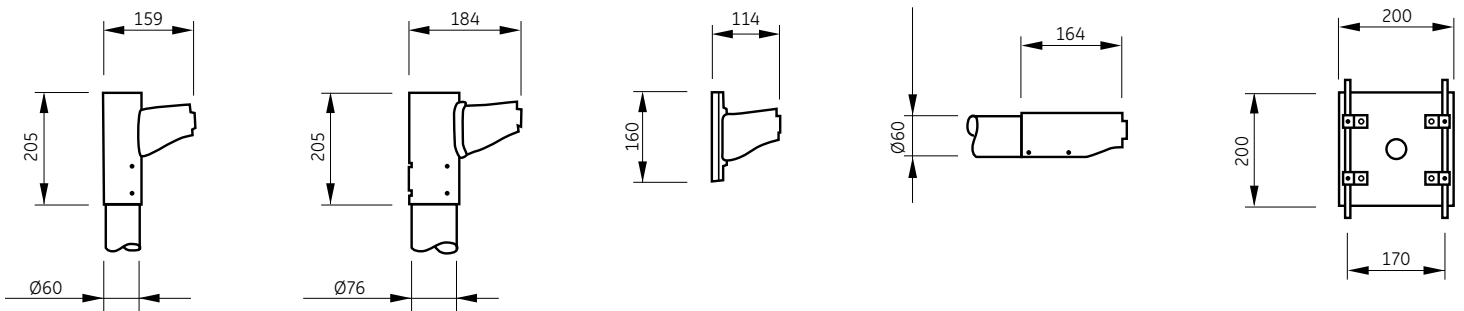
IBERIA/EC/VHPS250
POS. PORTA. 0A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

Dimensions (mm)



Housing

E. ELLIPTICAL



Lens

EC. PREMIUM CLEAR



VT. TEMPERED FLAT GLASS



EM. PREMIUM STIPPLED



VC. CURVED GLASS



Mounting devices



SP6
POST-TOP Ø 60



DP6
POST-TOP Ø 60
DOUBLE



TP6
POST-TOP Ø 60
TRIPLE



SP7
POST-TOP Ø 76



DP7
POST-TOP Ø 76
DOUBLE



TP7
POST-TOP Ø 76
TRIPLE



AT
POLE Ø 60



WM
WALL



P1
PENDANT 1"

IBERIA Premium

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10/08
Optic IP66 – Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Product code
IBERIA PREMIUM VT HPS 70W	LU 70/90/MO/T/E27	519822
IBERIA PREMIUM VT HPS 100W	LU100/100/XO/T/40	519823
IBERIA PREMIUM VT HPS 150W	LU150/100/40	519824
IBERIA PREMIUM VT HPS 250W	LU250/T/40	519825
IBERIA PREMIUM VT CMH150 T U	CMH150/TT/UVC/830/E40	519826
IBERIA PREMIUM VT CMH250 T U	CMH250/TT/UVC/U/830/E40	519827
IBERIA PREMIUM VC HPS 70W	LU 70/90/MO/T/E27	519828
IBERIA PREMIUM VC HPS 100W	LU100/100/XO/T/40	519829
IBERIA PREMIUM VC HPS 150W	LU150/100/40	519830
IBERIA PREMIUM VC HPS 250W	LU250/T/40	519831
IBERIA PREMIUM VC CMH150 T U	CMH150/TT/UVC/830/E40	519832
IBERIA PREMIUM VC CMH250 T U	CMH250/TT/UVC/U/830/E40	519833

Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast

IBERIA Spherical

Description	Lamp	Product code
IBERIA/E/SC HPS 100W	LU100/100/XO/T/40	87973
IBERIA/E/SC HPS 150W	LU150/100/40	87974
IBERIA/E/SC HPS 250W	LU250/T/40	87975
IBERIA/E/SM HPS 100W	LU100/100/XO/T/40	87979
IBERIA/E/SM HPS 150W	LU150/100/40	87980
IBERIA/E/SM HPS 250W	LU250/T/40	87981

IBERIA Accessories

Description	Product code
ACOP SP6 IBERIA PREMIUM	519834
ACOP SP7 IBERIA PREMIUM	519837
ACOP DP6 IBERIA PREMIUM	519835
ACOP DP7 IBERIA PREMIUM	519838
ACOP TP6 IBERIA PREMIUM	519836
ACOP TP7 IBERIA PREMIUM	519839
ACOP AT IBERIA PREMIUM	519840
ACOP WM IBERIA PREMIUM	519841
ACOP CT IBERIA/SYRA	87971
ACOP L IBERIA	87996

AVENIDA DE ENTREVÍAS, MADRID, SPAIN

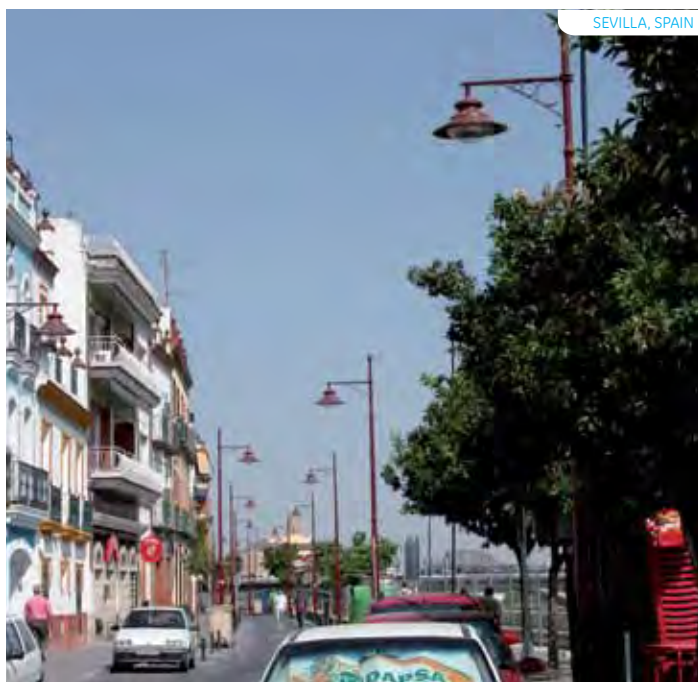


CITY OF SUNDSWALL, SWEDEN





OXIDON GREY IP66 IP44 IK10/08 7-12 KG



SEVILLA, SPAIN



MAJADAHONDA, MADRID, SPAIN

Application

For urban lighting thanks to the attractive design it can be used for all road lighting in city beautification, pedestrian areas and boardwalk.

Technical specification

Syra is a range of luminaires for outdoor decorative lighting available in two sizes (up to 150W and 250W respectively).

Structure and material

Housing in one piece spun aluminum. A die cast aluminum piece in the top of the housing is used for the support of the electrical unit and the mounting device. A hinged door allows access to the optical assembly and the electrical unit without tools.

Standard colour oxidon grey.

Electrical and gear compartment

The control gear is mounted on an easily removable universal tray, with a terminal block for wires up to 4mm². Isolated from the environment with a protection degree IP44.

Works with HPS and Metal Halide lamps up to 150W for the small version and 250W for the large one. Also Mercury Vapor lamps up to 125W.

Optics

Optical assembly hermetically sealed providing IP66. Easy removal.

Comprising:

- Reflector high purity (99,85%) one piece formed aluminum reflector, anodized and sealed. Asymmetric distribution with minimum light emission towards the upper hemisphere.
- Lens: spherical, elliptical or drop lens. Clear or stippled polycarbonate. Optionally tempered flat glass resistant to thermal and mechanical shock.
- E40 ceramic lamp-holder. Multi-position support allowing lamp adjustment in longitudinal and vertical directions for optimal light distribution.

Maintenance

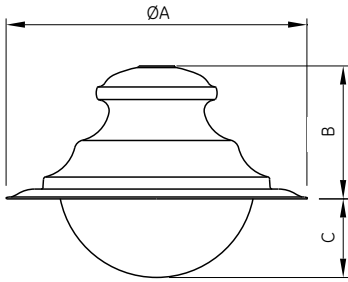
Lampholder without tools, quick, easy and safe.

Accessories/options

Optional Class II electronic gear

- Electronic version up to 150W
- Bi-level magnetic ballast

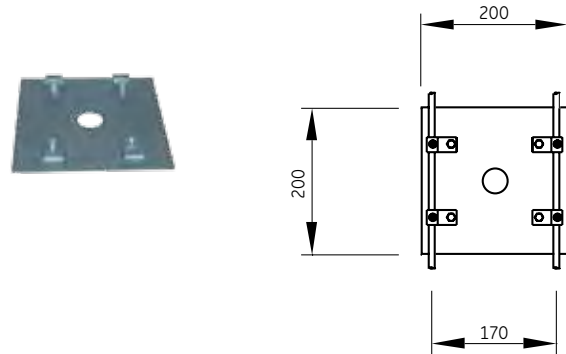
Dimensions (mm)



(mm)	A	B	C				
			SM/SC	EM/EC	DC	VC	VT
SYRA-150	722	319	189	116	54	46	0
SYRA-250	762	372	186	113	51	43	0

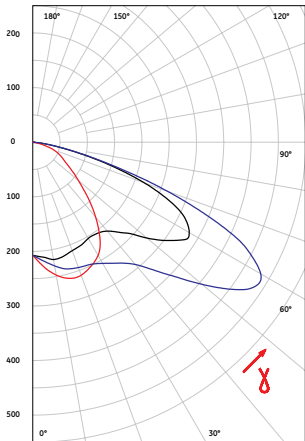
Accessory

CT – MOUNTING PLATE FOR CATENARY



Photometric data

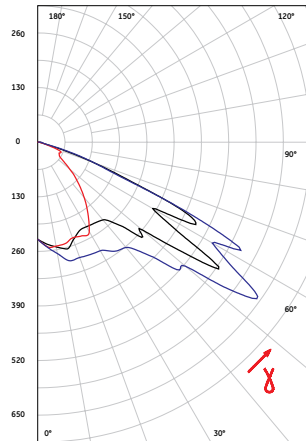
SYRA/EM/VHPS150
POS. PORTA. 2A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL
TRANSVERSAL
PRINCIPAL

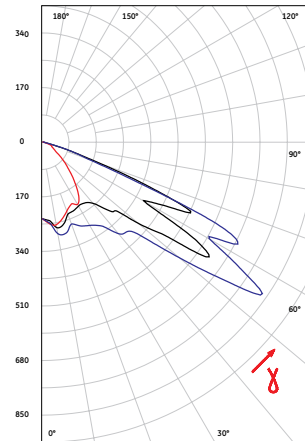
SYRA/VC/VHPS250
POS. PORTA. 0A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL
TRANSVERSAL
PRINCIPAL

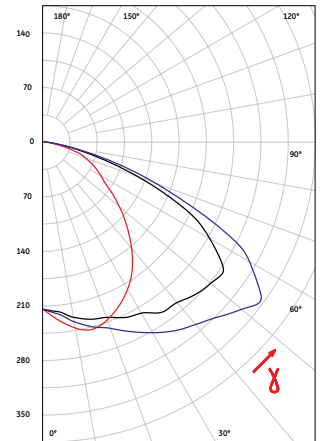
SYRA/EC/VHPS70
POS. PORTA. 2A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL
TRANSVERSAL
PRINCIPAL

SYRA/SC/MH125
POS. PORTA. 1A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL
TRANSVERSAL
PRINCIPAL

SYRA

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10/08
Optic IP66 – Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
SYRA-150 SC HPS 70W	LU 70/90/MO/T/E27	7.50	519842
SYRA-150 SC HPS 100W	LU100/100/XO/T/40	9.00	519843
SYRA-150 SC HPS 150W	LU150/100/40	8.50	519844
SYRA-150 SC CMH 150 T U	CMH150/T/UVC/830/E40	8.50	519845
SYRA-250 SC HPS 250W	LU250/T/40	12.00	519856
SYRA-250 SC CMH 250 T U	CMH250/TT/UVC/U/830/E40	12.50	519857

Lens: SC – spherical clear
Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast

SYRA

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10/08
Optic IP66 – Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
SYRA-150 VT HPS 70W	LU 70/90/MO/T/E27	8.00	519850
SYRA-150 VT HPS 100W	LU100/100/XO/T/40	8.00	519851
SYRA-150 VT HPS 150W	LU150/100/40	8.50	519852
SYRA-150 VT CMH 150 T U	CMH150/T/UVC/830/E40	9.00	519853
SYRA-250 VT HPS 250W	LU250/T/40	13.00	519858
SYRA-250 VT CMH 250 T U	CMH250/TT/UVC/U/830/E40	13.50	519859

Lens: VT – tempered flat glass
Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast

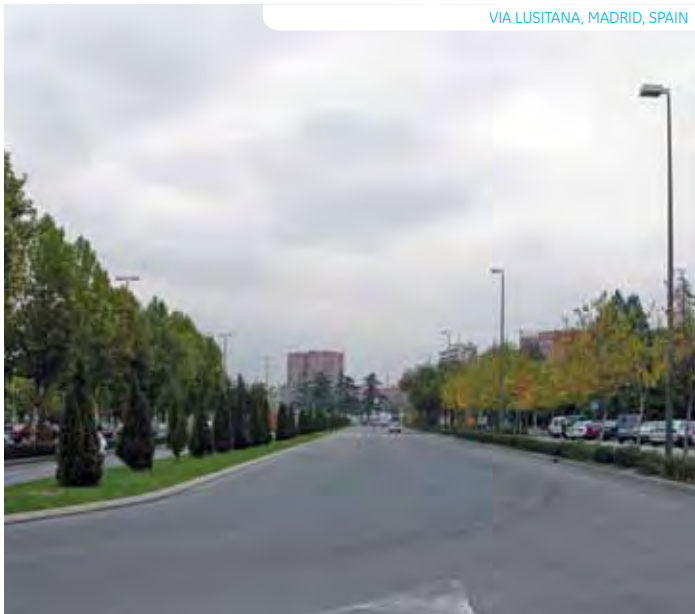
Accessory

Description	Product code
ACOP CT IBERIA/SYRA	87971

DS/SCM RANGE



DS-400	RAL 9011	IP55	IP55	IK08	16-20 KG	⚡
SCM3-175	RAL 9011	IP65	IP44	IK08	11-16 KG	⚡



VIA LUSITANA, MADRID, SPAIN



CAMPO DE LAS NACIONES, MADRID, SPAIN

Applications

The wide range of power and optical options available guarantee the possibility of successfully illuminating large parking areas, public roads, pedestrian streets and roundabouts. The luminaire complies with the most demanding standards regarding the restriction of skyward light emissions. With the FGA reflector, illumination of tennis courts and other sports fields is possible.

Technical specification

Family of area lighting luminaires of rectilinear design, robust construction and highly efficient optical systems with zero light emission towards the upper hemisphere. The different exterior sizes enable them to be employed for mounting at heights of between 4 and 16m while maintaining full uniformity within the chosen urban decorative concept.

Structure and material

Die-cast aluminium housing and door, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Electrical and gear compartment

The control gear is mounted on a removable tray in DS-1000 and DS-400. Isolated from the environment with a protection degree IP55 in DS and IP44 in SCM3.

For HPS and Metal Halide lamps up to 150W (SCM3-175), 750W (DS-400).

Optics

Optical assembly providing IP55 in DS luminaires and IP65 in SCM3. Faceted aluminium reflectors of the following types:

- DS-400, medium throw (CAM), long throw (CAL), symmetrical (SYM) and forward throw (FGA).
- SCM3-175, medium throw (CAM) and symmetrical (SYM) the latter solely for lamps with E27 holder and BD54 lamp.
- Flat tempered glass lens sealed with silicone to the access frame.

Maintenance

Lamp-holder without tools, quick, easy and safe.

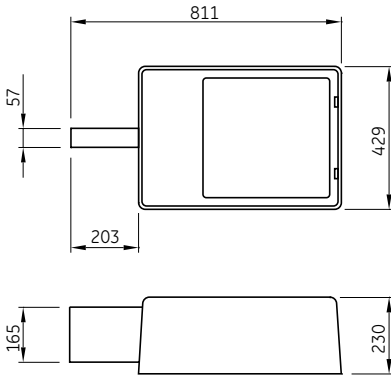
Accessories/options

Optional Class II electronic gear.

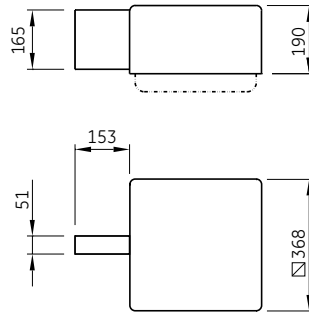
Optional post-top mounting (poles with diameter Ø60mm ending) by means of a decorative cast aluminum yoke.

Dimensions (mm)

DS-400



SCM3-175



DS-400

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK08
 Optic IP55 – Control gear IP55
 Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
DS-400 CAM HPS 150W	LU150/100/40	11.50	519881
DS-400 CAM HPS 250W	LU250/T/40	13.50	519882
DS-400 CAM HPS 400W	LU400/T/40	14.50	519883
DS-400 CAM HPS 600W	LU600/XO/T/40	15.60	519884
DS-400 CAM CMH 250 T U	CMH250/TT/UVC/U/830/E40	13.50	519885
DS-400 CAM CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	14.50	519886
DS-400 CAM AT HPS 150W	LU150/100/40	11.50	519887
DS-400 CAM AT HPS 250W	LU250/T/40	13.50	519888
DS-400 CAM AT HPS 400W	LU400/T/40	14.50	519889
DS-400 CAM AT HPS 600W	LU600/XO/T/40	15.60	519890
DS-400 CAM AT CMH 250 T U	CMH250/TT/UVC/U/830/E40	13.50	519891
DS-400 CAM AT CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	14.50	519892
DS-400 CAM w/o SP HPS 150W	LU150/100/40	11.50	519893
DS-400 CAM w/o SP HPS 250W	LU250/T/40	13.50	519894
DS-400 CAM w/o SP HPS 400W	LU400/T/40	14.50	519895
DS-400 CAM w/o SP HPS 600W	LU600/XO/T/40	15.60	519896
DS-400 CAM w/o SP CMH 250 T U	CMH250/TT/UVC/U/830/E40	13.50	519897
DS-400 CAM w/o SP CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	14.50	519898

Optics: CAM – medium throw
 Mounting: AT – pole Ø60
 SP – post top Ø60; mounting device to be ordered separately
 Options: RC – Bi power system
 C2 – Class II

SCM3-175

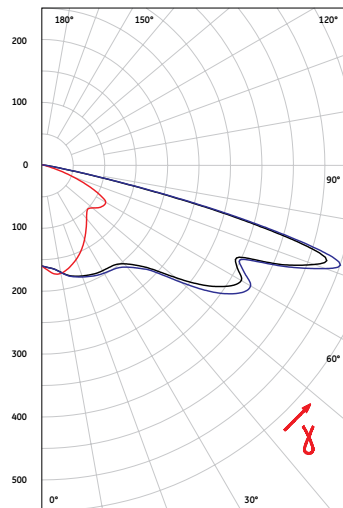
CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK08
 Optic IP65 – Control gear IP44
 Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
SCM3-175 B HPS 70W	LU 70/90/MO/T/E27	8.50	519900
SCM3-175 B HPS 100W	LU100/100/XO/T/40	9.00	519901
SCM3-175 B HPS 150W	LU150/100/40	9.90	519703
SCM3-175 B CMH 150 T U	CMH150/T/UVC/830/E40	9.90	519704
SCM3-175 w/o SP HPS 70W	LU 70/90/MO/T/E27	7.60	519705
SCM3-175 w/o SP HPS 100W	LU100/100/XO/T/40	8.10	519706
SCM3-175 w/o SP HPS 150W	LU150/100/40	9.00	519707
SCM3-175 w/o SP CMH 150 T U	CMH150/T/UVC/830/E40	9.45	519708

Mounting: B – rectangular device 153mm long
 SP – post top Ø60; mounting device to be ordered separately
 Options: RC – Bi power system
 C2 – Class II

Photometric data

DS-400/CAL/VHPS250
 POS. PORTA. OA

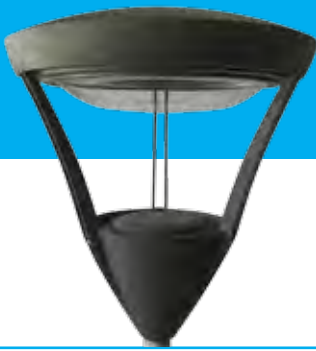


Intensity in the vertical plane, in candela per 1000 lumens
 LONGITUDINAL ———
 TRANSVERSAL ———
 PRINCIPAL ———

Accessory

Description	Product code
SP Mounting device	519904

DUNA PREMIUM



OXIDON LIGHT GREY

IP66

IP66

IK08/09

11-16 KG



PARQUE JUAN CARLOS I, PINTO, MADRID, SPAIN



Application

The three different options available allow all applications in amenity lighting for city beautification.

Technical specification

Duna is a range of luminaires for outdoor decorative lighting, using HPS and Metal Halide lamps.

Luminaire, ballast and lamp are supplied and tested by GE, ensuring continuity of product quality.

Structure and material

Base: die-cast aluminum. Pole mounting device includes a PG-13,5 cable gland for a perfect seal.

Body: die-cast aluminum, with three decorative arms, and two rings.

Supports optical components and electrical gear compartment.

Standard colour: oxidon light grey.

Upper housing: one-piece spun aluminum.

Electrical and gear compartment

The control gear is mounted on an easily removable universal tray. The gear tray support HPS and Metal Halide ballast up to 150W.

The luminaire includes a supply terminal board with electrical disconnection system once the fixture is opened.

Isolated from the environment with a protection degree IP66.

Optical assembly

Optical assembly hermetically sealed providing IP66. Anti-vandal clear polycarbonate lens, together with one of the following configurations:

- AD: direct asymmetric distribution, with a high purity pressed aluminum reflector (99,85%) anodized and sealed. Minimum light emission towards the upper hemisphere.
- AD/VC RD: direct asymmetric distribution without polycarbonate lens, alternative to glass.
- SD: direct symmetric distribution, with a spun aluminum reflector, anodized and sealed.

Maintenance

Relamping without tools once the luminaire is opened. Except in the AD version. Quick, easy and safe.

Installation

Post-top mounting for Ø60mm diameter poles.

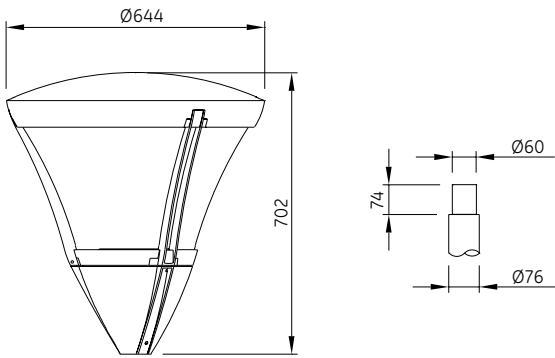
- Electronic version up to 150W
- Bi-level magnetic ballast
- Class II electronic gear



NEW Duna LED

See page 22

Dimensions (mm)



Types

DIRECT SYMMETRIC



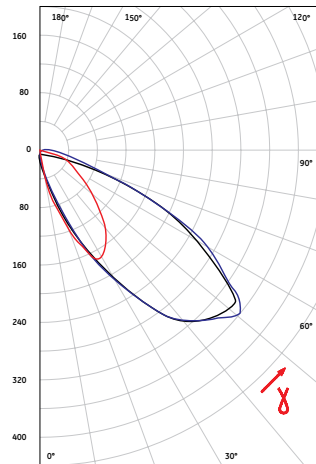
DIRECT ASYMMETRIC



FUENLABRADA, MADRID, SPAIN

Photometric data

DUNA PREMIUM/AD/VT/L/HPS70W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

DUNA PREMIUM

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK08/09
Optic IP66 – Control gear IP66
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
DUNA AD HPS 70W	LU 70/90/MO/T/E27	14.50	519860
DUNA AD HPS 100W	LU100/100/XO/T/40	15.00	519861
DUNA AD HPS 150W	LU150/100/40	16.00	519862
DUNA AD CMH 150 T U	CMH150/T/UVC/830/E40	16.00	519863
DUNA SD HPS 70W	LU 70/90/MO/T/E27	14.50	519864
DUNA SD HPS 100W	LU100/100/XO/T/40	15.00	519865
DUNA SD HPS 150W	LU150/100/40	16.00	519866
DUNA SD CMH 150 T U	CMH150/T/UVC/830/E40	16.00	519867

Optics: AD – direct asymmetrical
SD – direct symmetrical

Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast



RAL 9005

IP66

IP54

IK10

14 KG



ZUMAIÁ, GUIPÚZCOA, SPAIN

Application

Decorative outdoor fitting, ideal for lighting traditional areas in an efficient way.

Technical specification

Classical, aesthetic luminaire, combining strength and reliability and incorporating all the features of a new generation fitting: optimum photometric performance, minimum light emission towards the upper hemisphere, high degree of protection and low maintenance.

Luminaire, ballast and lamp are supplied and tested by GE, ensuring continuity of product quality.

Structure and material

Cast aluminium base with Ø60mm diameter post-top mounting device and cover to simplify the supply installation.

Extruded aluminium arm to feed supply leads to the control gear.

Cast aluminium ring, welded to the arms including the hinge system.

Cast aluminium top housing with crown being sealed for optimum protection of the hinge system.

Integrated stainless steel latch for easy opening without the need of tools.

Electrical and gear compartment

Placed inside the top housing and isolated from the environment with a protection degree IP54.

Metal tray in galvanized steel with anti-corrosion coating. Ballast, ignitor and capacitor are mounted on the tray.

Suitable for tubular lamps, HPS and Metal Halide up to 150W.

Optics

Optical assembly hermetically sealed providing IP66. Comprising:

- Clear polycarbonate lens 3mm thick, UV stabilized.
- Asymmetrical reflector made of high purity aluminium hydro-formed and anodized, providing high efficiency and mounted on an aluminium plate.
- Multi-position support for E27 allowing lamp adjustment in longitudinal and vertical directions for optimal light distribution.
- Silicone sealed.
- Electrical supply entry inside the luminaire via cable gland.

Maintenance

Tool-less access to the control gear by opening the latch on the lower housing.

Lamp re-lamping access by removing the lamp holder manually, releasing the two latches that support the lamp holder to the neck reflector.

Accessories/options

Classical wall mounting bracket made of die cast aluminium with a polyester powder finish and oven cured.

Class II.

Power reduction.

Dimensions (mm)

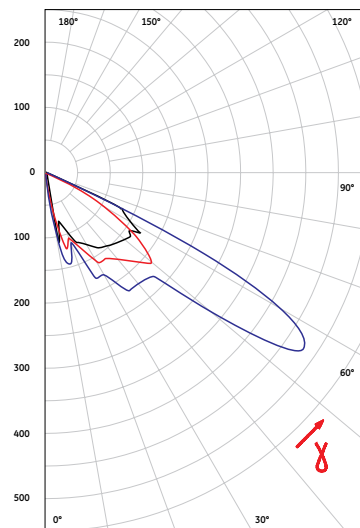


Structure



SEVILLA, SPAIN

Photometric data



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
 TRANSVERSAL ———
 PRINCIPAL ———

HISPALIS

CEI 34.21 /EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10
 Optic IP66 – Control gear IP54
 Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
HISPALIS HPS 70W	LU 70/90/MO/T/E27	13.50	519818
HISPALIS HPS 100W	LU100/100/XO/T/40	14.00	519819
HISPALIS HPS 150W	LU150/100/40	15.00	519820
HISPALIS CMH 150 T U	CMH150/T/UVC/830/E40	15.00	519821

Options: RC – Bi power system
 C2 – Class II

VILLA PREMIUM



RAL 9004

IP66

IP54

IK07

5-8 KG



Application

Decorative outdoor fitting, ideal for lighting traditional areas in an efficient way.

Technical specification

Operating with lamps up to 150W it provides a good lighting solution where aesthetic design and a high-efficiency photometric reflector contribute to enhance historical city centres. Thanks to its IP66 optical assembly and IP54 electric gear compartment, VILLA PREMIUM optimises maintenance costs. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (body and top door), both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL9004).

Support base suitable for vertical mounting through Ø48mm diameter pole. Two designed screws on the upper housing allow an easy luminaire opening and IP compliant closing.

Stainless steel screws.

Electrical and gear compartment

Placed into the upper housing of the body and isolated from the environment with a protection degree IP54, comprising:

- The gear tray is manufactured in painted metal sheet and mounted into the upper housing, easily removable. Ballast, ignitor and capacitor are mounted on this board.
- Supports HPS and Metal Halide ballast from 70W to 150W and Mercury Vapor for 80W.
- Electronic version for HPS and MH 100-150W.
- We recommend tubular lamp. In any other case please contact us.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Flat tempered glass sealed to the reflector through silicone.
- E27 & E40 ceramic lampholder depending on lamp.
- High purity aluminium reflector in one-piece, finish achieved through anodizing process.
- Plastic reflector neck, high-temperature resistant. The lamp holder is mounted into the reflector neck through a spongy silicone gasket for ensuring excellent ingress protection.
- Two side diffusers finish: clear and opal (IK10).

Maintenance

Direct access to both optic and electrical compartment makes maintenance quick and easy when opening the luminaire.

Quick access to the optic block by opening the upper body.

Fast lamp maintenance: by manually removing the lamp holder support from the front of the luminaire.

A "twist and lock" mechanism releases the lamp holder from the neck reflector.

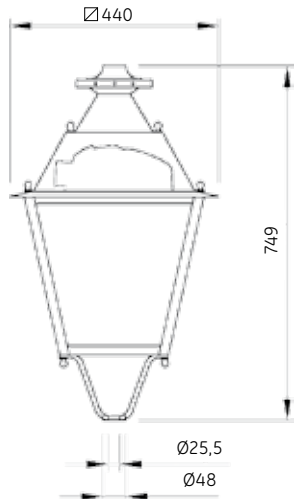
Accessories/options

Class II.

Power reduction.

Electronic version up to 150W.

Dimensions (mm)



Structure



Ordering information

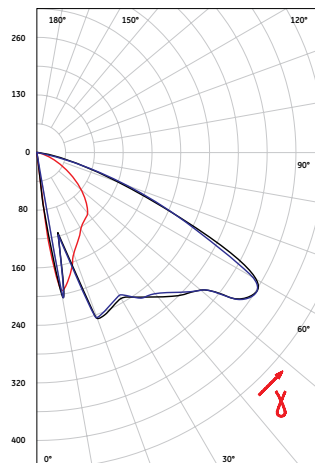
Type	Wattage	Lamp	Options
VILLA P	70 W 100 W 150 W	HPS & MH	RC – Bi Power systems C2 – Class II EB – Electronic ballast

HPS – High pressure sodium
MH – Metal halide



Photometric data

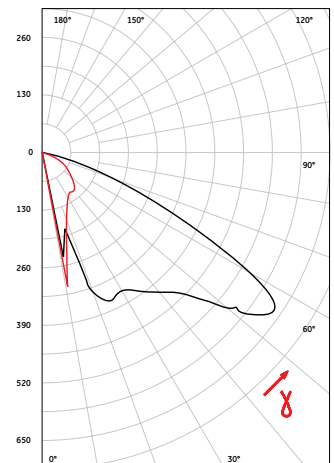
VILLA PREMIUM/VHPS 150W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

VILLA PREMIUM/CMH 100W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

SUPRA-550



RAL 7035

IP55

IP55

IK10

8-13 KG



ALCALÁ DE HENARES, MADRID, SPAIN



ALCORCÓN, MADRID

Application

Best suited for all round city, residential areas, walkways and commercial centres.

Technical specification

The Supra-550 is a spherical luminaire, with integral reflector suited to both road and area lighting, designed in accordance with current requirements for limiting light emissions towards the upper hemisphere.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Die-cast aluminium base, robust and highly decorative, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 7035 grey.

System for mounting on a 48 to Ø60mm diameter column.

Electrical and gear compartment

Control gear fitted to the base gear tray. Degree of protection IP55.

For Mercury Vapor lamps up to 250W, HPS and Metal Halide up to 150W.

Optics

Optical assembly sealed for an IP55 degree of protection, consisting of:

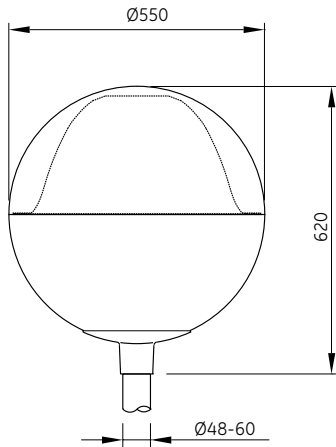
- Spherical prismatic refractor extruded in UV stabilised impact-resistant acrylic or polycarbonate. Comprises two sealed parts and incorporates internal and external prisms for optimum light and glare control.
- Symmetric aluminium reflector joined to the upper body of the refractor. Minimizes light emissions towards the upper hemisphere, increasing useful light at ground level.
- The optical assembly is fixed to the base with a clamp-type pressure system that can be operated from the outside. EPDM rubber gasket between the base and the optical assembly.

Accessories/options

Class II optional.

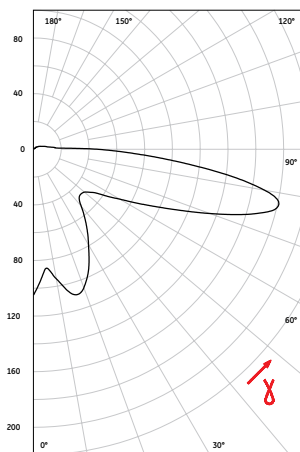
The luminaire can be supplied without the internal reflector.

Dimensions (mm)



Photometric data

SUPRA-550/VHPS100
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

SUPRA-550

CEI 34.21 /EN 60598-1, IEC 60 – 230V 50Hz – Class I – IK10
Optic IP55 – Control gear IP55
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
SUPRA-550 AR BOWL	LU 70/90/MO/T/E27	5.85	519722
SUPRA-550 AR HPS 70W HOUSING	LU70/90/D/27	2.85	519718
SUPRA-550 AR HPS 100W HOUSING	LU100/100/XO/T/40	3.25	519719
SUPRA-550 AR HPS 150W HOUSING	LU150/100/40	4.10	519720
SUPRA-550 AR CMH 150 T U HOUSING	CMH150/T/UVC/830/E40	4.10	519721

Reflector: AR – impact-resistant acrylic

Options: RC – Bi power system
C2 – Class II

OUTDOOR FUNCTIONAL





Road lighting

ODYSSEY	66
EURO 2 & EURO 7	68
LUNALYS	70
LUNA MINI	72
EUROSTREET	74
HMA	76
TPK	78

Tunnel lighting

Tunnel T5	80
V2F	82
PFE-400	84

Circulation lighting

WL-175 & WL-250BR & WM-175	86
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Accent lighting

SBF	88
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Facade lighting

PFE-154	90
PFE-400	92
PFE-1000	94
EUROFLOOD	96
MASTERPAK	98
HALOPAK	100

Sport lighting

EF2000	102
PW	104

See also our LED solutions
for area lighting on page 18

NEW

ODYSSEY



StreetWise™



RAL 7035

IP66

IP66

IK07

10 KG



Application

The luminaire is ideal for efficient lighting of main roads, streets, residential and industrial areas.

Technical specification

The Odyssey luminaire (size 1) is the latest high performing road lighting fitting designed by GE Lighting. Odyssey size 1 operates with lamps of up to 150W, and combines modern functional aesthetics and multiple functionalities to improve ease of installation and maintenance – full IP66. Odyssey size 1 provides a perfect lighting solution where the lighting level requirements are demanding thanks to the high-efficiency photometric reflector and reliable IP66 optical assembly.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material:

Housing in two pieces (housing and door), both in die-cast aluminium with a polyester powder paint finish and oven cured (RAL7035).

Adjustable (+/-15°) support base suitable for horizontal and +15° for vertical mounting through Ø48-60mm diameter pole, with optional accessory for Ø34-42mm diameter pole.

One unique latch included in the lower housing allowing an easy luminaire opening.

Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP66, comprising:

- The ballast support board is manufactured with high temperature resistant polyamide, and is easily removable. Ballast, ignitor and capacitor are mounted on this board.
- The gear tray supports HPS ballast and Metal Halide from 50W to 150W and Mercury Vapor up to 125W.
- Electronic version, power reduction and Class II optional.
- Tubular lamp recommended. For other options, please contact us.
- Electrical disconnection from the lamp with a multi-polar switch.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curved (IK07) or flat (IK08) tempered glass sealed to the reflector through silicone.
- E27 & E40 ceramic lampholder depending on lamp. Multi-position support allowing longitudinal lamp adjustment for optimal light distribution.
- High purity aluminium reflector in one piece, finish achieved through anodizing process.
- Polyamide reflector neck, high-temperature resistant. The lamp holder is mounted into the reflector neck through a spongy silicone gasket to ensure excellent ingress protection.
- Breather.

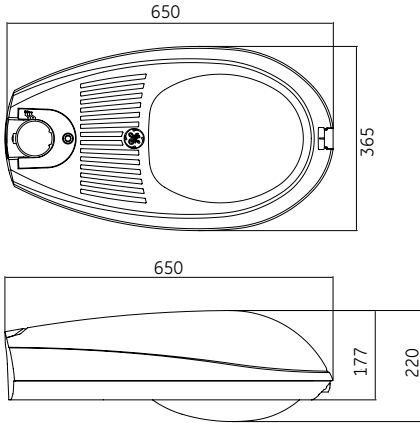
Maintenance

- Automatic electrical disconnection makes maintenance safer when opening the luminaire.
- Tool-less access to the optic block by opening the latch placed into the lower housing.
- Easy and quick lamp maintenance by manually removing the lamp holder support from the front of the luminaire.
- A "twist and lock" mechanism releases the lamp holder from the neck reflector.

Accessories/options

- Class II.
- Electronic ballast.
- Power reduction (RC).
- IP66 optic and IP44 gear compartment version available on request.

Dimensions (mm)

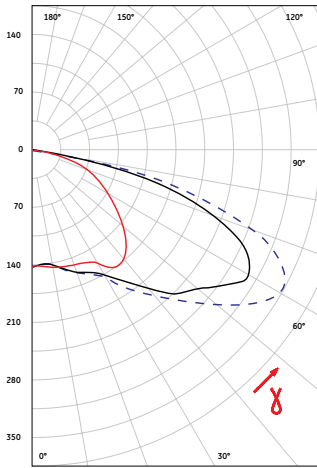


Structure



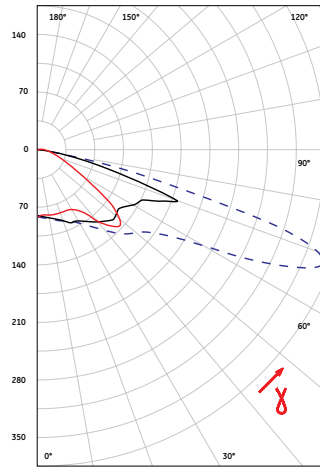
Photometric data

ODYSSEY/CMH 100W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens
 LONGITUDINAL ———
 TRANSVERSAL ———
 PRINCIPAL - - - - -

ODYSSEY/HPS 70W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens
 LONGITUDINAL ———
 TRANSVERSAL ———
 PRINCIPAL - - - - -

ODYSSEY

CEI 34.21 /EN 60598 - 50Hz - Class II - IP66 - IK07
Luminaire supplied without lamp

Description	Lamp	Product code
ODYSSEY HPS 50 LL 230V GE	LU50/85/MO/T/E27	73993
ODYSSEY HPS 70 LL 230V GE	LU 70/90/MO/T/E27	73994
ODYSSEY HPS 100 LL 230V GE	LU100/100/MO/T/40	522528
ODYSSEY HPS 150 LL 230V GE	LU150/100/40	522529
ODYSSEY MH 70 LL 230V GE	CMH70/TT/UVC/830/E27	522530
ODYSSEY MH 100 LL 230V GE	CMH100/TT/UVC/830/E40	522531
ODYSSEY MH 150 LL 230V GE	CMH150/TT/UVC/830/E40	522532
ODYSSEY MH 150 E40 LL 230V GE	CMH150/TT/UVC/830/E40	522534
ODYSSEY HPS 70 LL 230V CL2 GE	LU 70/90/MO/T/E27 1/25	73995
ODYSSEY HPS 100 LL 230V CL2 GE	LU100/100/MO/T/40	73996
ODYSSEY HPS 150 LL 230V CL2 GE	LU150/100/40	73997
ODYSSEY MH 70 LL 230V CL2 GE	CMH70/TT/UVC/830/E27	73998
ODYSSEY MH 100 LL 230V CL2 GE	CMH100/TT/UVC/830/E40	73999
ODYSSEY MH 150 LL 230V CL2 GE	CMH150/TT/UVC/830/E40	74000
ODYSSEY MH 150 E40 LL 230V CL2 GE	CMH150/TT/UVC/830/E40	74001

ODYSSEY

CEI 34.21 /EN 60598 - 50Hz - Class II - IP66 - IK07
Luminaire supplied without lamp

Description	Lamp	Product code
With power reduction (RC)		
ODYSSEY HPS 70 LL 230V RC GE	LU 70/90/MO/T/E27	74002
ODYSSEY HPS 100 LL 230V RC GE	LU100/100/MO/T/40	74003
ODYSSEY HPS 150 LL 230V RC GE	LU150/100/40	74004
With electronic ballast		
ODYSSEY HPS 70 LL 230V EB GE	LU 70/90/MO/T/E27	74005
ODYSSEY HPS 100 LL 230V EB GE	LU100/100/MO/T/40	74006
ODYSSEY HPS 150 LL 230V EB GE	LU150/100/40	74007

EURO 2 & EURO 7



EURO 2 RAL 7035 IP66 IP44 IK09 10-15 KG

EURO 7 RAL 7035 IP66 IP44 IK09 15-20 KG



Application

Is suitable for many applications such as motorways with high-density traffic flow to urban street environments. Parking and general purpose areas.

Technical specification

The Euro is a family of street lighting luminaires that reflects all the latest trends and technological advances in this field. Characterized by the high degree of protection of the optical assembly (IP66) and boasts a system for adjusting the lamp holder into 28 possible geometries, easily modified on site, thus enabling any possible lighting requirement to be achieved. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Two part housing in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming and oven cured at 180°C.

Standard colour: RAL 7035 grey.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44, comprising:

- The ballast support board manufactured in galvanized sheet and mounted into the lower housing, easily removable. Ballast, ignitor and capacitor are mounted on this board. Electrical disconnection from the lamp with a multi-polar switch.
- The gear tray supports HPS and Metal Halide up to 600W in the Euro-7 and up to 250W in the Euro-2.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curved transparent tempered glass.
- Optical assembly with seal between the reflector and the glass. Easily changed.
- Faceted aluminium reflector.
- Polyamide lamp holder, fixture reinforced with glass fibre and resistant to high temperatures.
- Simple device for horizontal and vertical adjustment of the lamp holder position. Multiple photometric distributions.

Maintenance

Top opening for tool-less access to the lamp and control gear.

Lamp replacement without tools.

Installation

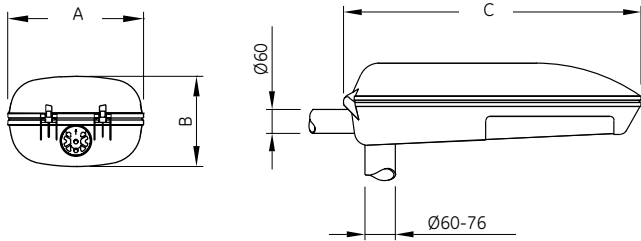
Mounting system easily adaptable to pole or post-top applications, using the same spigot and without the need to specify this beforehand.

Possibility of 0°, 5° & 10° inclination in either of the two mounting options.

Accessories/options

- The luminaire can also incorporate a photoelectric control unit.
- Die-cast aluminium tilting mounting device, side entry and post top mounting is 60mm, tilt in 5° steps horizontally and vertically.
- Euro-7 with IP65 is available as an option.
- Electronic version up to 150W.
- Bi-level magnetic ballast.
- Class II electronic gear.

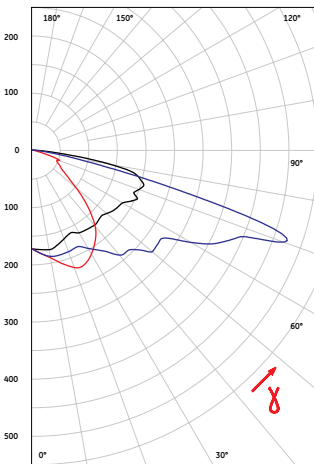
Dimensions (mm)



Type	A (mm)	B (mm)	C (mm)
EURO-7	251	366	855
EURO-2	205	318	743

Photometric data

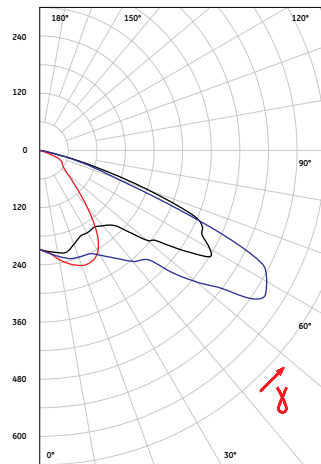
EURO-7/VHPS600
POS. PORTA. 1-C



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

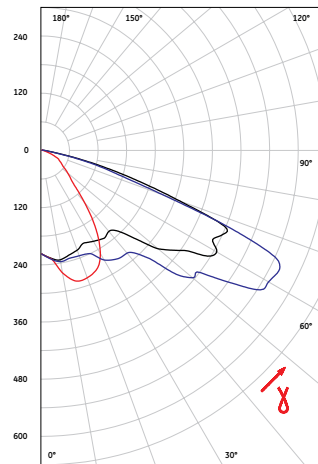
EURO-2/VHPS250
POS. PORTA. 2-A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

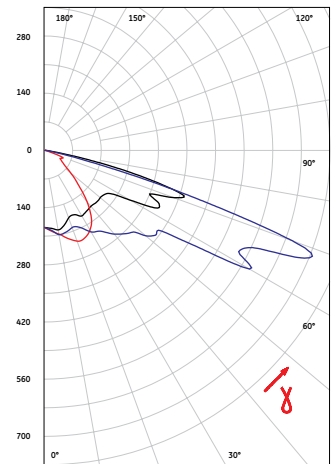
EURO-2/VHPS150
POS. PORTA. 5-A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

EURO-7/VHPS400
POS. PORTA. 2-B



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

EURO-2

CEI 34.21 / EN 60598 - 50Hz - Class I - IK09
Optic IP66 - Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
EURO-2 HPS 50W	LU50/85/MO/T/E27	9.00	519723
EURO-2 HPS 70W	LU 70/90/MO/T/E27	9.00	519724
EURO-2 HPS 70W RC	LU70/90/T12/27	10.00	519730
EURO-2 HPS 100W	LU100/100/XO/T/40	9.45	519725
EURO-2 HPS 100W RC	LU100/100/XO/T/40	10.00	519731
EURO-2 HPS 150W	LU150/100/40	10.80	519726
EURO-2 HPS 150W RC	LU150/100/40	11.70	519732
EURO-2 HPS 250W	LU250/T/40	12.15	519727
EURO-2 HPS 250W RC	LU250/T/40	12.60	519733
EURO-2 CMH 150	CMH150/T/UVC/830/E40	10.80	519728
EURO-2 CMH 250	CMH250/TT/UVC/U/830/E40	12.15	519729

Options: RC - Bi power system
C2 - Class II
EB - Electronic ballast

EURO-7

CEI 34.21 / EN 60598 - 50Hz - Class I - IK09
Optic IP66 - Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
EURO-7 HPS 250W	LU250/T/40	14.40	88027
EURO-7 HPS 250W RC	LU250/T/40	14.85	519740
EURO-7 HPS 400W RC	LU400/T/40	17.55	519741
EURO-7 HPS 400W	LU400/T/40	17.10	88028
EURO-7 HPS 600W	LU600/XO/T/40	18.90	88029
EURO-7 CMH 150 T U	CMH150/TT/UVC/830/E40	13.50	519737
EURO-7 CMH 250 T U	CMH250/TT/UVC/U/830/E40	14.40	519738
EURO-7 CMH 400 T HOR	CMH400/TT/UVC/U/830/E40	17.10	519739

Options: RC - Bi power system
C2 - Class II



Applications

The luminaire is ideal for efficient lighting of main roads, residential and industrial areas.

Technical specification

The Lunalys luminaire allows for a high quality lighting solution without having to compromise on the aesthetic design. A high-efficiency photometric reflector is easy to maintain thanks to its IP66 optical assembly. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (gallery and canopy), die-cast aluminium with an oven cured polyester powder paint finish (RAL9006).

Mounting spigot suitable for horizontal and vertical mounting through Ø60mm diameter pole.

One unique latch included into the upper housing allowing an easy luminaire opening.

Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44.

The gear tray is manufactured in galvanized sheet and mounted into the easily removable lower housing, electrical disconnection from the lamp with plug and socket. Ballast, ignitor and capacitor are mounted on this tray. The gear tray supports HPS ballast from 100W to 250W and Metal Halide (MH) from 150 to 250W.

We recommend tubular lamp for HPS and MH. In any other case please contact us.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curved tempered glass sealed to the reflector with silicone.
- E40 ceramic lampholder. Multi-position support allowing lamp adjustment in a longitudinal direction for optimal light distribution.
- High purity aluminium reflector in one piece, finish achieved through anodizing process.
- Lamp holder assembly, high-temperature resistant. The lamp holder is mounted into the reflector through a compression silicone gasket ensuring excellent ingress protection.

Maintenance

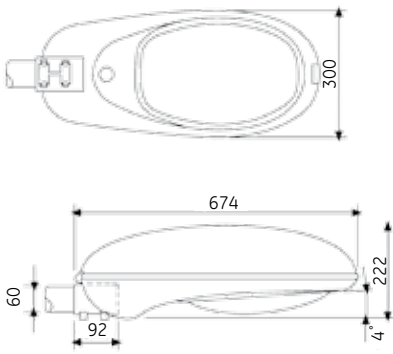
- Automatic electrical disconnection makes maintenance safer when opening the luminaire.
- Tool-less access to the optic block by opening the latch placed into the upper housing.
- Easy and quick lamp maintenance by manually removing the lamp holder support from the front of the luminaire.
- A "twist and lock" mechanism releases the lamp holder from the neck reflector.

Accessories/options

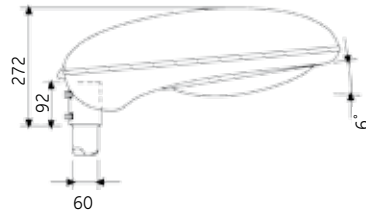
Die-cast aluminium tilting mounting device, side entry and post top mounting is 60mm, tilt in 5° steps horizontally and vertically.

- Electronic version up to 150W
- Bi-level magnetic ballast
- Class II electronic gear

Dimensions (mm)

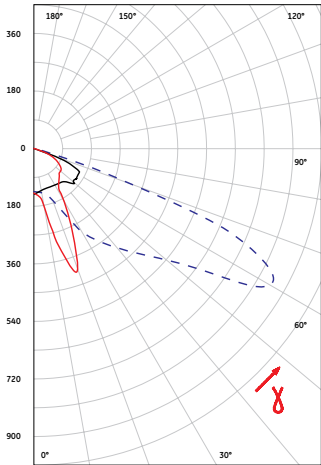


Structure



Photometric data

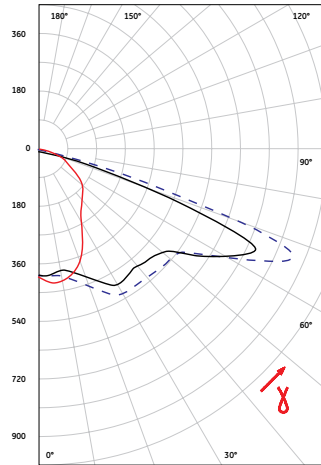
LUNALYS/CMH 250W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -

LUNALYS/V HPS 150W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -

LUNALYS

CEI 34.21 /EN 60598 – 50Hz – Class I (optional Class II) – IK08
Optic IP66 – Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Product code
LUNALYS HPS 100	LU100/100/MO/T/40	96905
LUNALYS HPS 100 RC	LU100/100/MO/T/40	96906
LUNALYS HPS 150	LU150/100/40	96907
LUNALYS HPS 150 RC	LU150/100/40	96908
LUNALYS HPS 250	LU250/T/40	96909
LUNALYS HPS 250 RC	LU250/T/40	96910
LUNALYS CMH 150	CMH150/T/UVC/830/E40	96903
LUNALYS MH 250	CMH250/TT/UVC/U/830/E40	96904

Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast



ASELE, SWEDEN



Application

The luminaire is ideal for efficient lighting of main roads, residential and industrial areas.

Technical specification

The Luna Mini luminaire operates with lamps up to 150W, and it allows for a high quality lighting solution without having to compromise on aesthetic design. A high-efficiency photometric reflector is easy to maintain thanks to its IP66 optical assembly.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two pieces (gallery and canopy), die-cast aluminium with an oven cured polyester powder paint finish and (RAL9006).

Mounting spigot suitable for horizontal mounting through Ø48mm diameter pole and vertical Ø60mm.

One unique latch included into the upper housing allowing an easy luminaire opening.

Stainless steel screws.

Electrical and gear compartment

Placed into the lower housing and isolated from the environment with a protection degree IP44, comprising:

- The gear tray is manufactured in galvanized sheet and mounted into the lower housing. Easily removable. Ballast, ignitor and capacitor are mounted on this tray.
- Gear tray is compatible for HPS and Metal Halide up to 150W.
- We recommend tubular lamp. In other cases please contact us.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Curved tempered glass sealed to the reflector with silicone.
- E27/40 ceramic lamp holder depending on lamp. Multi-position support allowing lamp adjustment in a longitudinal direction for optimal light distribution.
- High purity aluminium reflector in one-piece, finish achieved through anodizing process.
- Lamp holder assembly, high-temperature resistant. The lamp holder is mounted into the reflector through a compression silicone gasket ensuring excellent ingress protection.

Maintenance

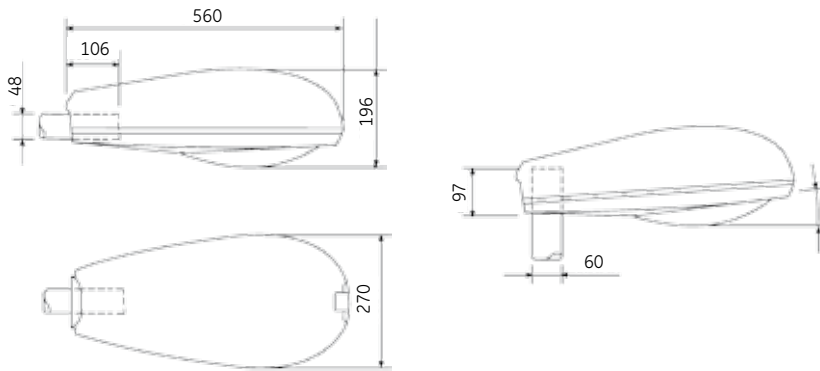
- Tool-less access to the optic block by opening the latch placed into the upper housing.
- Easy and quick lamp maintenance by manually removing the lamp holder support from the front of the luminaire.
- A "twist and lock" mechanism releases the lamp holder from the neck reflector.

Accessories/options

Die-cast aluminium tilting mounting device, side entry and post top mounting is 60mm, tilt in 5° steps horizontally and vertically.

- Electronic version up to 150W
- Bi-level magnetic ballast
- Class II electronic gear

Dimensions (mm)

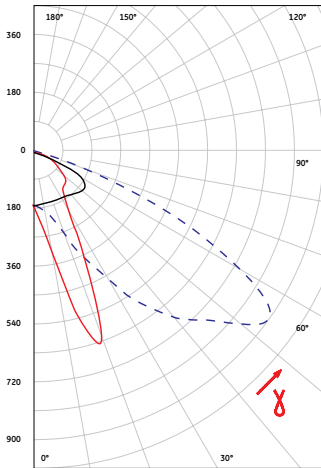


Structure



Photometric data

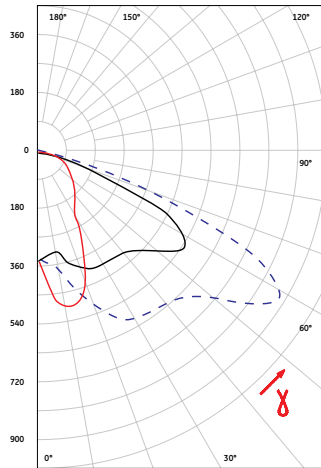
LUNA MINI/CMH 100W
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -

LUNA MINI/V HPS 150
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -

LUNA MINI

CEI 34.21 / EN 60598 – 50Hz – Class I (optional Class II) – IK08
Optic IP66 – Control gear IP44
Luminaire supplied without lamp

Description	Lamp	Product code
LUNA MINI HPS 50	LU50/85/MO/T/E27	96893
LUNA MINI HPS 70	LU70/90/MO/T/E27	96894
LUNA MINI HPS 100	LU100/100/MO/T/40	96895
LUNA MINI HPS 150	LU150/100/40	96896
LUNA MINI MH 70	CMH70/TT/UVC/830/E27	96898
LUNA MINI MH 100	CMH100/TT/UVC/830/E40	96899
LUNA MINI CMH 100	CMH100/TT/UVC/830/E40	96900
LUNA MINI MH 150	CMH150/TT/UVC/830/E40	96901
LUNA MINI CMH 150	CMH150/TT/UVC/830/E40	96902

Options: RC – Bi power system
C2 – Class II
EB – Electronic ballast



Application

Is suitable for many applications such as urban streets, major roads, motorways, and parking area lighting.

Technical specification

Eurostreet series feature a wide range of street lights with 80-400W Mercury Vapor or 70-400W HPS or 150-400W Metal Halide lamps.

The unique quality of this family of luminaires lies in the materials utilized in the manufacture of its exterior body.

Luminaire, ballast and lamp are supplied and tested by GE, ensuring continuity of product quality.

Structure and material

Housing in two parts (housing and cover) in glass fibre reinforced thermoplastic polymer, injection molded and UV stabilized results in a housing and cover that offers exceptional mechanical resistance and high resistance to chemical agents.

Both elements are hinged at the front and secured by three captive springs and stainless steel springs.

Standard colour: RAL 7038.

Electrical and gear compartment

Electrical unit mounted on removable insulating plate, made from glass fibre reinforced polyamide. Incorporates an automatic power cut-off switch when the cover is opened.

Degree of protection IP65.

Wiring is with silicone wires and PG 13,5 tear-proof cable – clamp for 6-12mm wires.

Insulation class II.

Optics

Optical assembly hermetically sealed providing IP65, comprising:

- 4mm flat tempered glass lens. T25 models also available in transparent, UV-stabilized injection molded polycarbonate bowl.
- Computerized design 99.85% pure anodized and polished aluminium, with "cut-off" beam.
- All models have diffuser hermetically locked to the body. Lamp replacement does not require diffuser removal.
- Device for horizontal adjustment of the lamp holder position, providing multiple photometric distributions.

Lamp

Luminaire complete with GE lamp

– for S types – Lucalox™ HPS lamp

– for M types – ConstantColor™ CMH or Quartz Metal Halide lamp

– for H types – mercury lamp.

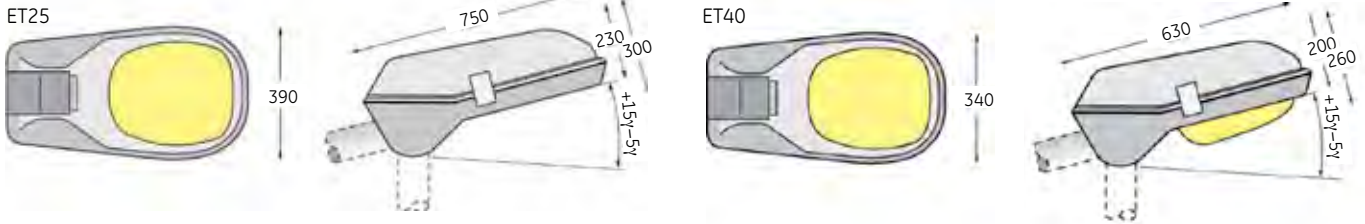
Maintenance

Lamp replacement easy, fast and safe by opening fitting head. A support rod activates the automatic disconnect feature.

Installation

Pole or post-top mounting with a diameter of 42 to 76mm, by way of a cast aluminium adapter, with the possibility of adjusting the luminaire's tilt angle between -5° and $+15^\circ$.

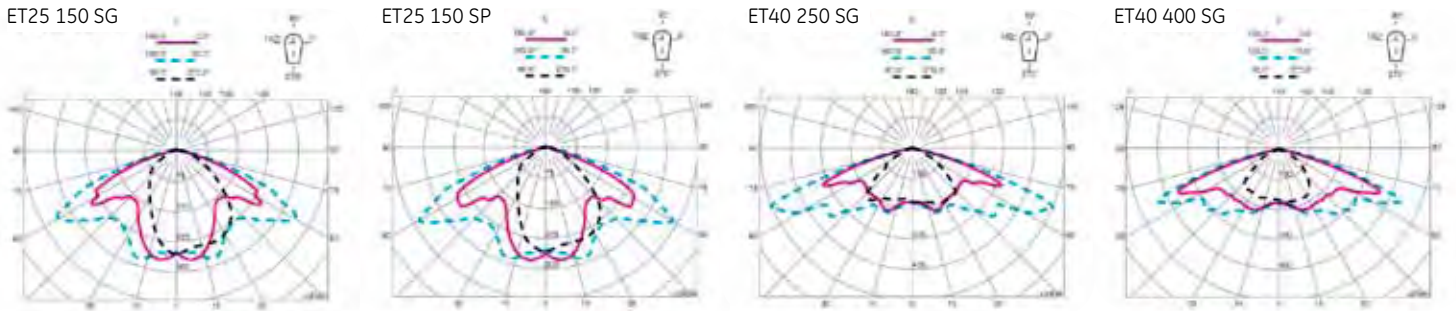
Dimensions (mm)



Structure



Photometric data



EUROSTREET ET25

CEI 34.21 / EN 60598 – 50Hz – Class II – IP65 – IK09
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Product code
ET25 80 H G	H80/27	8.00	42605
ET25 80 H P	H80/27	8.00	42607
ET25 125 H G	H125/27	8.00	42608
ET25 125 H P	H125/27	8.00	42609
ET25 50 S G	LU50/85/MO/T/E27	8.00	42651
ET25 70 S G	LU70/90/MO/T/E27	8.00	42610
ET25 70 S P	LU70/90/MO/T/E27	8.00	42611
ET25 100 S G	LU100/100/MO/T/40	8.00	42613
ET25 100 S P	LU100/100/MO/T/40	8.00	42628
ET25 150 S G	LU150/100/40	8.00	42629
ET25 150 S P	LU150/100/40	8.00	42634
ET25 150 M G CMH	CMH150/TT/830/E40	8.00	42652
ET25 150 M P CMH	CMH150/TT/830/E40	8.00	43668

Lamp: H – mercury
S – high pressure sodium
M – metal halide
Reflector: G – glass
P – polycarbonate

EUROSTREET ET40

CEI 34.21 / EN 60598 – 50Hz – Class II – IP65 – IK09
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Product code
ET40 250 H G	H250/40	11.00	42635
ET40 400 H G	H400/40	11.00	42636
ET40 250 S G	LU250/T/40	11.00	42639
ET40 400 S G	LU400/T/40	11.00	42641
ET40 250 M G	ARC250/T/H	11.00	42642
ET40 400 M G	ARC400/T/H	11.00	42650
ET40 250 M G CMH	CMH250/TT/UVC/U/830/E40	11.00	42592
ET40 400 M G CMH	CMH250/TT/UVC/U/830/E40	11.00	42593

Lamp: H – mercury
S – high pressure sodium
M – metal halide
Reflector: G – glass

Accessories

Description	Lamp	Weight (kg)	Product code
ETW60	Ø 60mm wall mounting support	1,35	42654
ETC 60	Ø 60mm asymmetrical mounting support	2.20	42657
ETG25	ETG25 GLASS	0.76	43320
ETG40	ETG40 GLASS	1.06	43319
ETP25	ETP25 PC BOWL	0.22	44173



ENLACE AVDA. AMÉRICA M-30, MADRID, SPAIN



Application

Roadway junctions and interchanges, parking and other extensive areas, plazas and roundabouts, particularly in those lighting situations that require strict glare control.

Technical specification

Designed for mounting at considerable heights, the HMA can incorporate different reflectors in order to obtain asymmetrical, roadway or symmetrical light distributions.

Structure and material

Luminaire comprises the ballast compartment, in die-cast aluminium painted in RAL 7035 grey, and the main body/outer reflector in spun aluminium, with a faceted interior for symmetrical photometric distributions (CS).

Electrical and gear compartment

Activated charcoal filter system integrated in the ballast compartment. For HPS and Metal Halide lamps up to 1000W. Electric unit with a protection degree IP55. Insulation class I.

Optics

Optical assembly sealed providing IP55, comprising:

- Outer reflector in spun aluminium, with a faceted interior for symmetrical photometric distribution (CS).
- Additional adjustable inner reflector in faceted aluminium for asymmetrical photometric solutions (CA).
- Optical assembly enclosed by a recessed, curved tempered glass lens with a silicone gasket, attached to the outer reflector by a hinge and stainless steel latches.

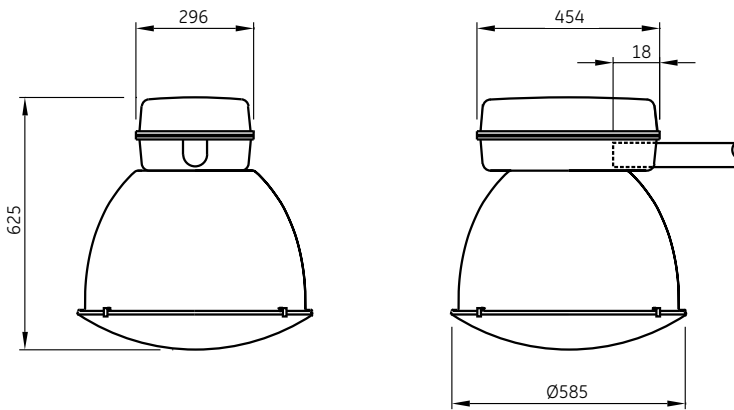
Maintenance

Relamping without need for tools.

Installation

Mounting is by horizontal fitting to a 60mm diameter pole.

Dimensions (mm)



HMA

CEI 34.21 / EN 60598 - 50Hz - IP55 - Class I - IK08
Luminaire supplied without lamp

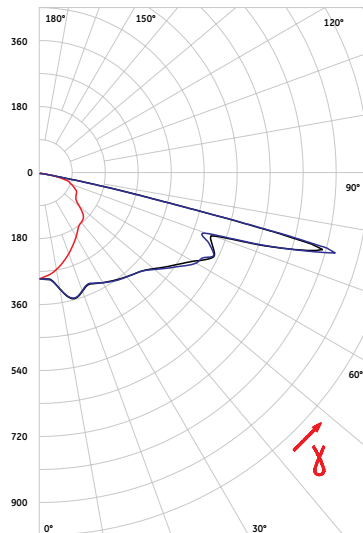
Description	Lamp	Weight (kg)	Product code
HMA CA HPS 400W	LU400/T/40	9.50	519545
HMA CA HPS 600W	LU600/XO/T/40	12.50	519546
HMA CA HPS 1000W	LU1000/110/T/40	15.75	519547
HMA CA CMH 400 T HOR	CMH400/TT/JVC/U/830/E40	9.50	519548
HMA CA MH1000W	MVR1000/U/40	16.20	519549

Options: RC - Bi power system



Photometric data

HMA/VHPS 1000
POS. PORTA. BAJA



Intensity in the vertical plane, in candela per 1000 lumens

- LONGITUDINAL ———
- TRANSVERSAL ———
- PRINCIPAL ———



Application

Motorways, general-purpose, toll and parking areas. On very wide roadways or with fixtures set back a long way (up to 12m). Sports facilities and railway platforms. Squares and roundabouts.

Technical specification

The special design of the optical assembly in the TPK luminaire provides effective solutions for all lighting problems that may arise at installations where considerable separation is required between the road and the luminaire fixture or in the case of very wide roadways with restricted mounting height possibilities.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in three parts (housing, access door and lamp holder housing) in die-cast aluminium electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 7035 grey.

Ethylene propylene diene rubber (EPDM) gaskets between the glass lens and the door and between the door and the housing.

Activated charcoal filter system integrated in the housing.

Electrical and gear compartment

Electric unit with a protection degree IP65.

For Mercury Vapor, HPS and Metal Halide lamps up to 750W.

Insulation class I. Optional class II.

Optics

Optical assembly hermetically sealed providing IP65, comprising:

- Curved transparent borosilicate glass lens.
- Aluminium reflector.

Maintenance

Tool less front access to the lamp and control gear by releasing a stainless steel latch.

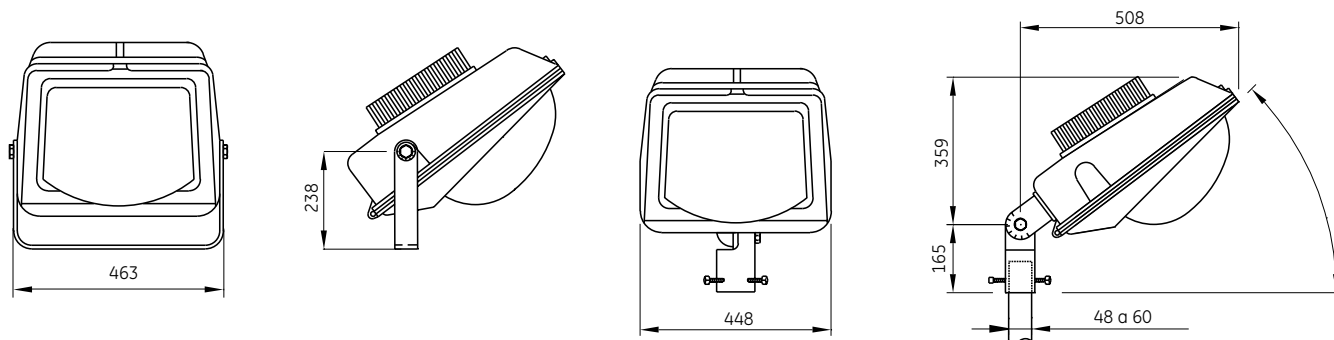
Installation

Mounting via adapter to pole (48 to 60mm diameter) with aiming degree marker, manufactured in die-cast aluminium.

Accessories/options

- Insulation class II optional.
- An optional steel spigot (L) mounting system is also available.
- The luminaire can also incorporate a photoelectric control unit.

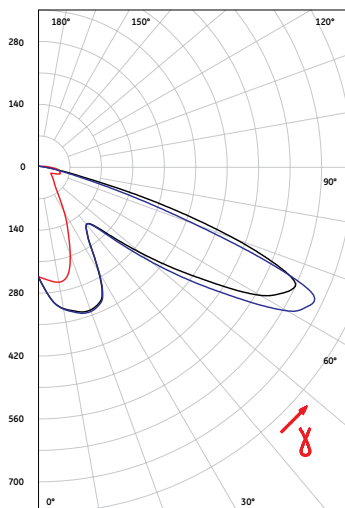
Dimensions (mm)



MADRID, A-2, SPAIN

Photometric data

TPK/VHPS 750
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

TPK

CEI 34.21 / EN 60598 – 50Hz – IP65 – Class I – IK06
Luminaire supplied without lamp

Description	Lamp	Product code
TPK HPS 150W	LU150/100/40	88035
TPK HPS 250W	LU250/T/40	88036

Options: RC – Bi power system
C2 – Class II

NEW

TUNNEL T5



RAL 9011

IP65

IP65

IK09

5 KG



Application

Lighting of tunnels and underpasses from any position.

Technical specification

New compact waterproof ceiling luminaire for 35W, 49W and 80W T5 fluorescent lamps (1.449m long). Operates on electronic ballast, dimmable solution, can be used for Dali protocol. IP65 – proper protection against contamination from water and accidental abuse. Electrical class I. Reflector is independent of the housing.

Structure and material

The luminaire consists of a housing and L-3441 anodized aluminum extrusions (compliant with ASTM standard) guaranteeing high mechanical resistance. Side covers of high pressure injection-cast aluminum, coated with electrostatically deposited polyester paint powder. Before the paint is applied, the covers are given anticorrosive treatment and polymerized in a furnace at 180°C in RAL colour 9011. 5mm thick tempered glass. The joint between the door and the housing is made with a silicone gasket to guarantee the required water tightness rating (IP65).

Electrical compartment

This luminaire functions with a high frequency electronic ballast. These ballasts make it possible to increase the luminous flux of the fluorescent lamp by as much as 10%. The electronic control devices have a low power loss and minimal self-heating, factors which reduce the temperature of the luminaire while increasing the efficiency of the lamp. The electronic components also guarantee that the lamp electrodes preheat that the power-up voltage is high enough and that the discharge current is limited, thus permitting instant lamp switch on and silent, flicker-free operation, thanks to the high operating frequency. An option is offered where the luminaires are equipped with dimmable DALI electronic ballasts that can be linked with remote management systems. The electronic equipment is mounted on the tray located over the luminaire housing, a position that eases its replacement without need of tools. Protected against the outside elements with a water tightness rating of IP65. Cable gland PG-13.5. Insulation class I.

Optics

Aluminum reflector (99.85% minimum purity, type A8 aluminum) independent from the housing. Five different photometric distributions: three symmetrical and two asymmetrical, to fit any application needs.

Maintenance

The luminaire is equipped with a closing mechanism that utilizes a continuous hinge. By acting on both hinges, the tempered glass closing mechanism turns over the covers and hangs from them, enabling the luminaire to be opened without tools. The lamp and electrical equipment can be changed without tools.

Installation

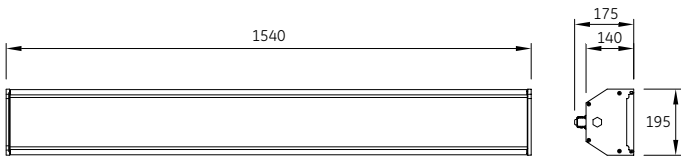
The luminaire can be secured to the wall or ceiling by means of a coupling that allows the luminaire to be tilted to ensure suitable light distribution. The mounting system allows the luminaire to be easily freed without removing the mounting hardware. All of the external screws, nuts and bolts are stainless steel.

Accessories/options

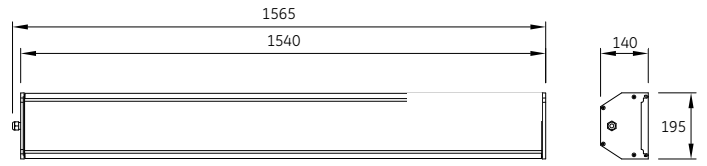
- Fit coupling for ceiling or wall mounting. Installation or removal of the luminaire by means of a spring system operated by simply tightening or loosening a screw.
- Tilt coupling designed for vertical mounting with angle adjustment range of +/-60°.
- Dual couplings for installing the luminaire in line (only valid with fast connector).
- Fast connector (HARTING type) for easy connection and disconnection of the luminaire without needing to open it.
- Electronic equipment controllable through DALI protocol.

Dimensions (mm)

GE-TUN/HAR



GE-TUN/PG



Accessories

TILT COUPLING



DUAL TILT COUPLING



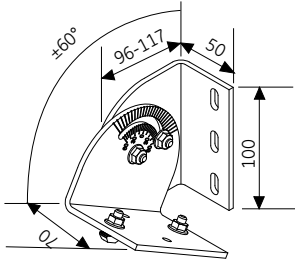
FIXED COUPLING



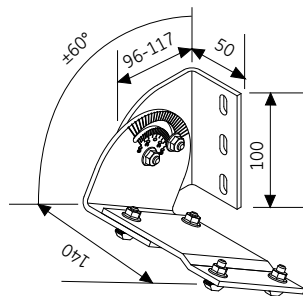
DUAL FIXED COUPLING



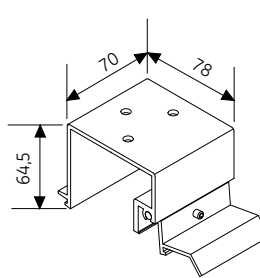
JOINTED COUPLING



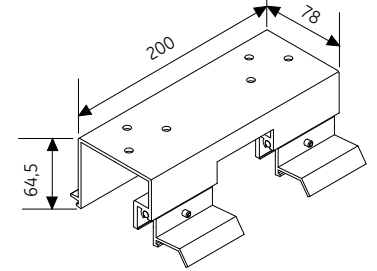
DUAL JOINTED COUPLING



FIXED COUPLING



DUAL FIXED COUPLING



Tunnel T5 – 49W

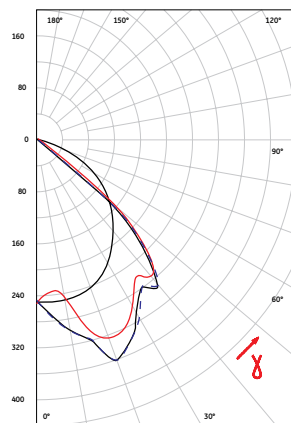
CEI 34.21 / EN 60598 – 50Hz – IP65 – Class I – IKXX
Luminaire supplied without lamp

Description	Lamp	Regulation	Distribution
Connection: harting			
TUNNEL T5/HAR/SM 49W	T5 49W	NO	SM
TUNNEL T5/HAR/SM 49W DALI	T5 49W	DALI	SM
TUNNEL T5/HAR/SI 49W	T5 49W	NO	SI
TUNNEL T5/HAR/SI 49W DALI	T5 49W	DALI	SI
TUNNEL T5/HAR/SE 49W	T5 49W	NO	SE
TUNNEL T5/HAR/SE 49W DALI	T5 49W	DALI	SE
TUNNEL T5/HAR/AI 49W	T5 49W	NO	AI
TUNNEL T5/HAR/AI 49W DALI	T5 49W	DALI	AI
TUNNEL T5/HAR/AE 49W	T5 49W	NO	AE
TUNNEL T5/HAR/AE 49W DALI	T5 49W	DALI	AE
Connection: cable gland			
TUNNEL T5/PG/SM 49W	T5 49W	NO	SM
TUNNEL T5/PG/SM 49W DALI	T5 49W	DALI	SM
TUNNEL T5/PG/SI 49W	T5 49W	NO	SI
TUNNEL T5/PG/SI 49W DALI	T5 49W	DALI	SI
TUNNEL T5/PG/SE 49W	T5 49W	NO	SE
TUNNEL T5/PG/SE 49W DALI	T5 49W	DALI	SE
TUNNEL T5/PG/AI 49W	T5 49W	NO	AI
TUNNEL T5/PG/AI 49W DALI	T5 49W	DALI	AI
TUNNEL T5/PG/AE 49W	T5 49W	NO	AE
TUNNEL T5/PG/AE 49W DALI	T5 49W	DALI	AE

SM – medium symmetrical
SI – intensive symmetrical
SE – extensive symmetrical
AI – intensive asymmetrical
AE – extensive asymmetrical

Photometric data

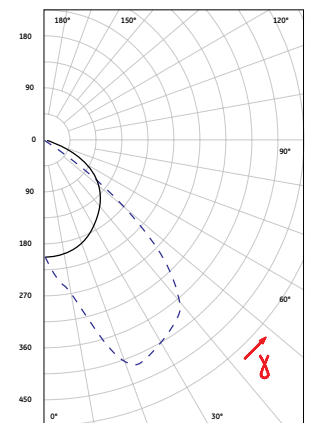
TUNNEL T5 1



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -

TUNNEL T5 2



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL - - - - -



RAL 7035

IP65

IP65

IK06

12-20 KG



TUNNEL DE VENTISQUERO DE LA CONDESA, MADRID, SPAIN



TÚNEL SOMPORT

Application

Mounting the luminaire vertically (fitted to walls), excellent illumination can be achieved, even with considerable spacing, in the lighting of tunnels, underpasses and security perimeter installations on building facades, as well as accesses to underground car parks. Recommended mounting height is 3 to 7m. When the luminaire is mounted horizontally, it is ideal for lighting facades, signs and road signs.

Technical specification

The versatility of applications was the guiding concept behind the development of this luminaire. The robustness of the components, the simplicity of its maintenance and the excellent efficacy of its optical systems make it an ideal choice for highly demanding installations, optimizing operating expenses and power consumption.

The precise design of the reflectors employed guarantee minimum glare levels, even when the reflector is viewed head-on, and the version with a borosilicate glass prismatic lens (VP) offers an exceptional visual guide in tunnel lighting applications.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 7035, grey.

EPDM gasket between housing and door.

Electrical and gear compartment

Electronic unit mounted on removable tray. PG 13.5 cable gland.

With a protection degree IP65.

Gear tray is compatible for HPS and Metal Halide (MH) lamps up to 400W. Insulation class I.

Optics

Optical assembly hermetically sealed providing IP65, comprising:

- Four different removable lenses – flat tempered glass (VE), prismatic borosilicate glass (VP), flat transparent tempered glass (VT) and curved borosilicate glass (VC) – mounted on door with an ethylene propylene diene rubber (EPDM) gasket. With the option of the glass sealed to the door with silicone.
- Faceted aluminium reflectors with wide (DA) or narrow (DE) distribution.
- The 400W Mercury Vapor lamp is not compatible with the VE/DA and VT/DA versions. In the VE/DA and VT/DA versions of the 400W MH lamp, an E90 lamp must be used.

Maintenance

Tool-less opening of the luminaire by means of a stainless steel latch. Rapid access to the lamp and control gear.

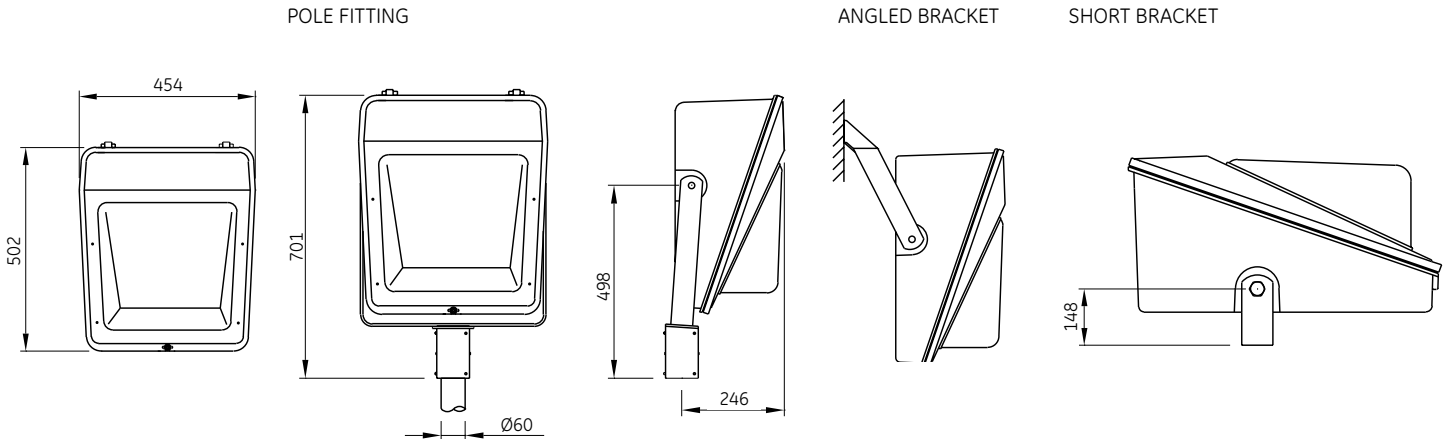
Installation:

Direct mounting on both vertical and horizontal surfaces. Other mounting systems upon demand.

Accessories/options

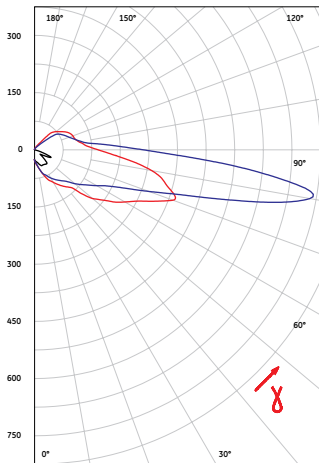
- Pole fitting (vertical or horizontal mounting).
- Adjustable support bracket (horizontal mounting).
- Angled bracket (vertical mounting).
- Other supports on request.

Dimensions (mm)



Photometric data

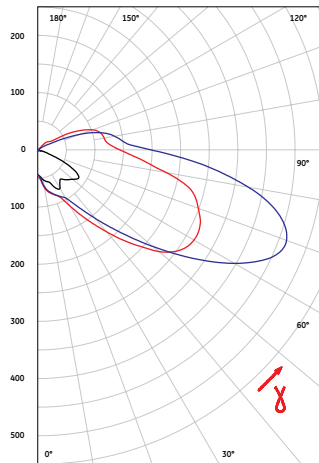
V2F/VT/DA/MH250
POS. PORTA. B



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL —
TRANSVERSAL —
PRINCIPAL —

V2F/VP/DA/VHPS400
POS. PORTA. A



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL —
TRANSVERSAL —
PRINCIPAL —

V2F

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP65 – IK06
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
V2F VP DA HPS 70W	LU70/90/MO/T/E27	13.70	519550
V2F VP DA HPS 100W	LU100/100/MO/T/40	14.10	519551
V2F VP DA HPS 150W	LU150/100/40	15.00	519552
V2F VP DA HPS 250W	LU250/T/40	16.10	519553
V2F VP DA HPS 400W	LU400/T/40	17.50	519554
V2F VP DA HPS 150W RC	LU150/100/40	15.50	519558
V2F VP DA HPS 250W RC	LU250/T/40	16.60	519559
V2F VP DA HPS 400W RC	LU400/T/40	18.00	519560
V2F VP DA CMH 150 T U	CMH150/TT/UVC/830/E40	14.40	519555
V2F VP DA CMH 250 T U	CMH250/TT/UVC/U/830/E40	14.80	519556
V2F VP DA CMH 400 T VBU	CMH400/TT/UVC/U/830/E40	17.50	519557

Options: RC – Bi power system



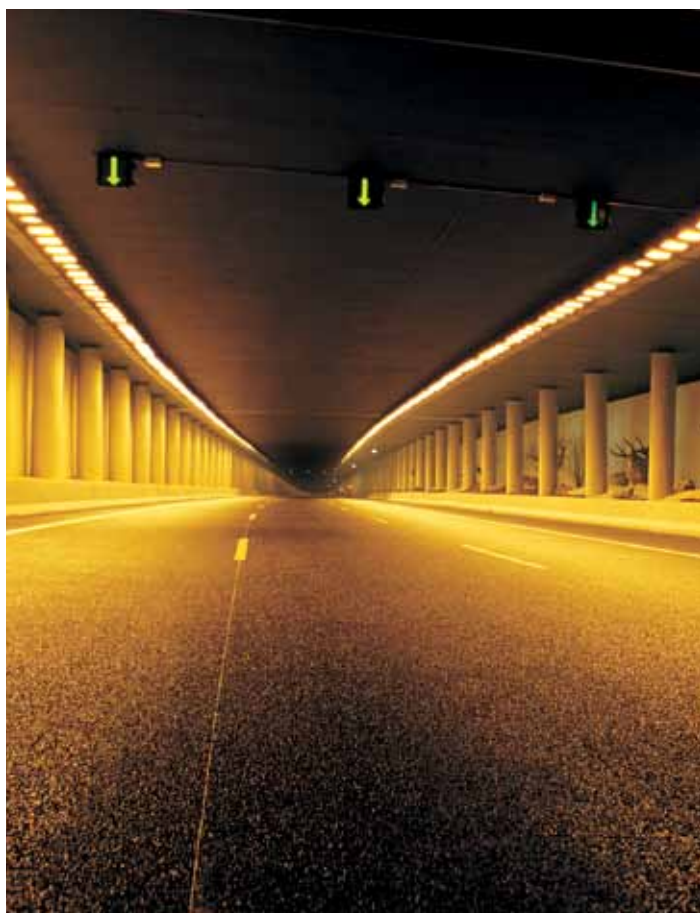
RAL 9011

IP66

IP66

IK08

8-14 KG



Application

Lighting of tunnels and underpasses from any position.

Technical specification

Luminaire designed for tunnel illumination by way of a counter beam, and symmetrical roof-mounted system. Exceptionally robust and easily maintained. Is suitable for both surface and semi-recessed mounting. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Extruded EPDM gasket between housing and door.

Hinged, detachable access door.

Electrical and gear compartment:

Electronic unit mounted on removable tray, with a protection degree IP66.

Gear tray is compatible for HPS lamps up to 400W. The luminaires can be supplied with ballasts for Mercury Vapor or Metal Halide.

PG 13.5 cable gland. As an option a second cable gland may be fitted.

Insulation class I.

Optics

Optical assembly hermetically sealed providing IP66, comprising:

- Flat tempered glass lens sealed with silicone to the door.
- Faceted aluminium reflectors with very wide (V2F/DA), wide (6x6), counter beam (CBM) and symmetrical (SYM) distribution. With the option of the glass sealed to the door with silicone.
- The luminaire with CBM and SYM optics are only fitted with HPS lamps.

Maintenance

Screw opening of the luminaire. As an option, tool-less opening by means of a stainless steel latch (R).

Frontal access to lamp and control gear.

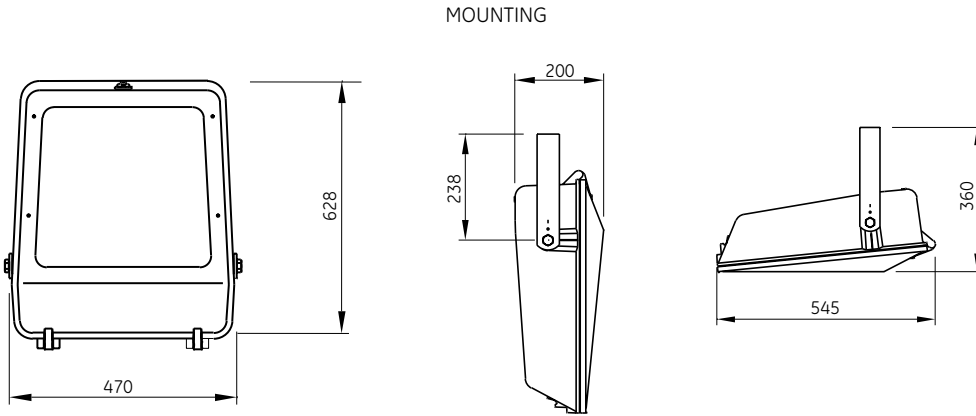
Installation

Mounting by way of a heavy gauge steel bracket with aiming degree indicator.

Accessories/options

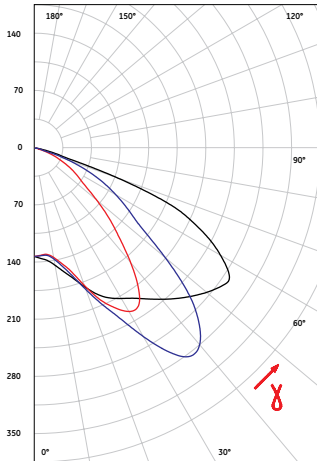
- Insulation class II option.
- Bi-power ballast.

Dimensions (mm)



Photometric data

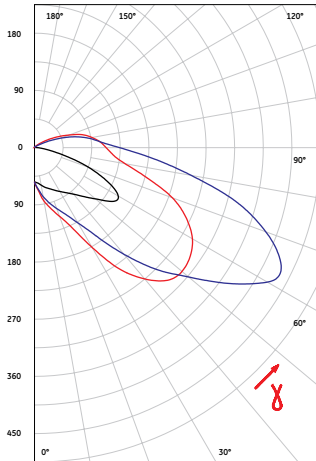
PFE-400/SYM/DE/VHPS70
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

PFE-400/V2F/DE/VHPS250
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

PFE-400

CEI 34.21 / EN 60598-1, IEC 60598 - 230V 50Hz - Class I - IP66 - IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
PFE4/TUN PFE400SYM70S			TBD
PFE-400 V2F DA HPS 100W	LU100/100/MO/T/40	9.00	519477
PFE-400 V2F DA HPS 150W	LU150/100/40	10.80	519478
PFE-400 V2F DA HPS 250W	LU250/T/40	11.70	519479
PFE-400 V2F DA HPS 400W	LU400/T/40	12.15	519480
PFE-400 V2F DA HPS 600W	LU600/XO/T/40	17.90	519481
PFE-400 V2F DA HPS 100W RC	LU100/100/MO/T/40	10.00	519482
PFE-400 V2F DA HPS 150W RC	LU150/100/40	11.25	519483
PFE-400 V2F DA HPS 250W RC	LU250/T/40	12.15	519484
PFE-400 V2F DA HPS 400W RC	LU400/T/40	12.65	519485

Optics: V2F DA - wide distribution

Options: RC - Bi power system

WL-175 & WL-250BR & WM-175



WL-175	DARK BRONZE	IP55	IP55	IK10	6-9 KG	
WL-250 BR	DARK BRONZE	IP55	IP55	IK08	8-14 KG	
WM-175	DARK BRONZE	IP55	IP55	IK06	10 KG	



Application

Illuminating building perimeters, patios, and lobbies, corridors, loading bays, garages, pedestrian and vehicle underpasses, porches and arcades.

Technical specification

Compact luminaires, designed for wall mounting with the optical system sealed with a glass lens. The optical system of WL-175 model comes with prismatic polycarbonate lenses with high-efficiency and good glare control properties. The WL-250 BR model offers strict glare control and zero light emission towards the upper hemisphere.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

The housing of the WL-175 and WM-175 is die-cast aluminium in two pieces (housing and door) and the WL-250 BR comprises three pieces (base, front housing and cover) in the same material. In case of WM-175 and WL-250 BR, the pieces are a dark bronze colour, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C. The WL175 types are with a polycarbonate front lens; Acrylic (A) optional.

Electrical and gear compartment

Electrical unit incorporated in the base of the luminaire. With a protection degree IP55 for:

- Mercury Vapor (MV) lamps, HPS and Metal Halide (MH) lamps up to 150W (WL-175). It is recommended to use diffuse lamps in this fitting. Please contact us for using any other lamp type (compact fluorescents, low pressure sodium).
- MV lamps, HPS and MH lamps up to 250W (WL-250 BR).
- MV lamps, HPS and MH lamps up to 175W (WM-175).

Insulation class I.

Optics

Optical assembly sealed providing IP55, comprising:

- Prismatic polycarbonate refractor in case of WL-175 with EPDM gaskets between lens and housing.
Flat tempered glass lens sealed with silicone to the cover in the WL-250 BR.
Prismatic borosilicate glass with a silicone gasket in the WM-175.
- Aluminium reflector.

Maintenance

Frontal access to lamp and control gear.

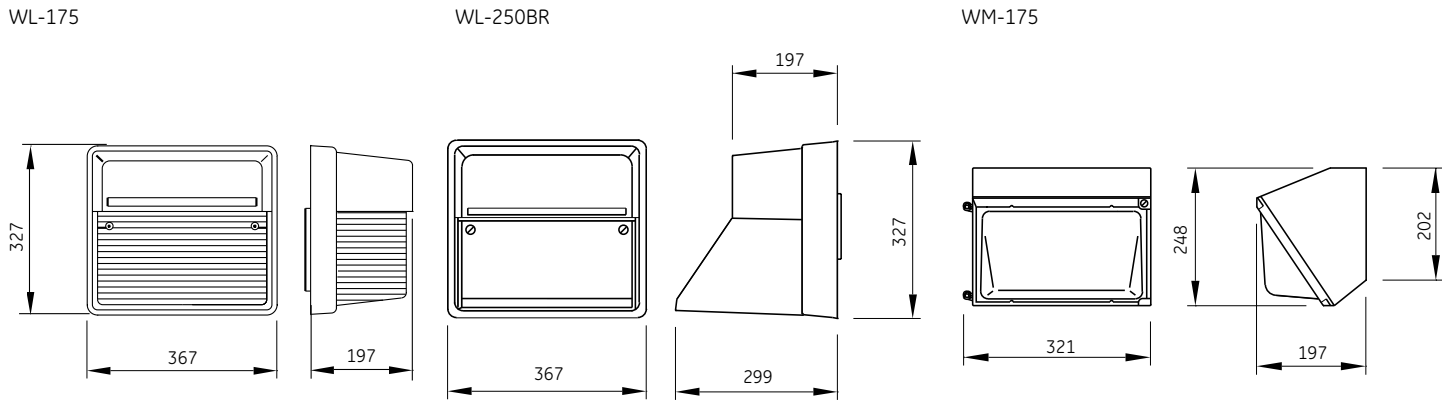
Installation

Direct wall mounting.

Accessories/options

- The luminaires may incorporate a photoelectric control unit. Supplied separately. Reference PEK-240.

Dimensions (mm)



WL-175

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP55 – IK10
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
WL-175 HPS 50W	LU50/85/MO/T/E27	6.00	519492
WL-175 HPS 70W	LU70/90/MO/T/E27	5.60	519493
WL-175 HPS 100W	LU100/100/MO/T/40	6.30	519494
WL-175 HPS 150W	LU150/100/40	7.20	519495
WL-175 CMH 150 T U	CMH150/T/UVC/830/E40	7.20	519496

WL-250BR

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP55 – IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
WL-250BR HPS 70W	LU70/90/MO/T/E27	7.70	519486
WL-250BR HPS 100W	LU100/100/MO/T/40	8.10	519487
WL-250BR HPS 150W	LU150/100/40	8.10	519488
WL-250BR HPS 250W	LU250/T/40	9.10	519489
WL-250BR CMH 150 T U	CMH150/T/UVC/830/E40	8.60	519490
WL-250BR CMH 250 T U	CMH250/TT/UVC/U/830/E40	9.10	519491

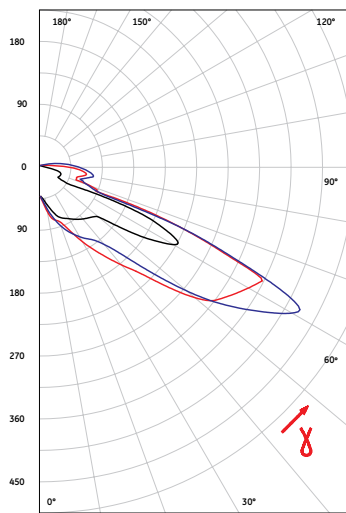
WM-175

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP55 – IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
WM-175 HPS 50W	LU50/85/MO/T/E27	5.85	519497
WM-175 HPS 70W	LU70/90/MO/T/E27	5.00	519498
WM-175 HPS 100W	LU100/100/MO/T/40	5.85	519499
WM-175 HPS 150W	LU150/100/40	6.30	519500
WM-175 MH 70W	CMH70/TT/UVC/830/E27	5.40	519501
WM-175 MH 100W	CMH100/TT/UVC/830/E40	5.85	519502
WM-175 CMH 150 T U	CMH150/TT/UVC/830/E40	6.75	519504
WM-175 MH 150W	CMH150/TT/UVC/830/E40	6.30	519503

Photometric data

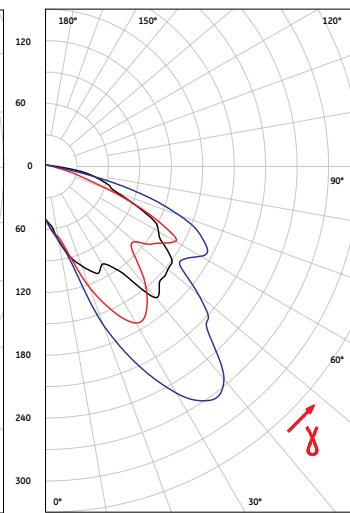
WL-175/VHPS100
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———

WL-250BR/VHPS150
POS. PORTA. FIJA



Intensity in the vertical plane, in candela per 1000 lumens

LONGITUDINAL ———
TRANSVERSAL ———
PRINCIPAL ———



RAL 9011

IP55

IP55

IK08

4-6 KG



PLAZA TOMÁS Y VALIENTE, FUENLABRADA, MADRID, SPAIN



Application

For signs, facades, parks and gardens, displays and monuments.

Technical specification

Very compact design floodlight, with integrated ballast, for high-intensity discharge lamps up to 175W and narrow or wide-beam reflectors. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in three parts (housing, door and swivel mount) in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Hinged, detachable access door.

Electrical and gear compartment

Integrated ballast in high power factor. With a protection degree IP55.

For 80W Mercury Vapor lamps, HPS lamps up to 70W and Metal Halide lamps up to 150W, all with an E27 cap.

Insulation class I.

Optics

Optical assembly sealed providing IP55, comprising:

- Flat tempered glass lens attached to door.
- Aluminium reflectors providing narrow (C) and wide (D) beam.
- EPDM gasket between glass lens and housing.

Maintenance

Frontal access to lamp and control gear.

Twin-screw opening of luminaire.

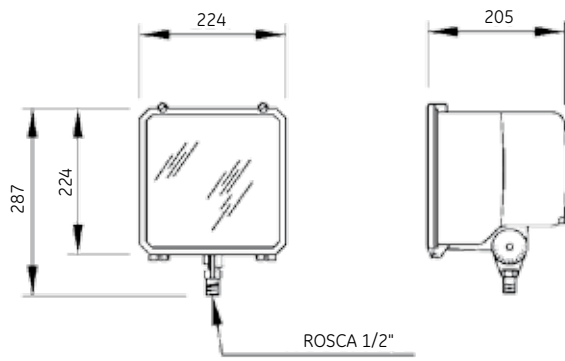
Installation

½" threaded swivel mount includes aiming degree indicator.

Accessories/options

- Mounting bracket optional.
- Glare control visors.

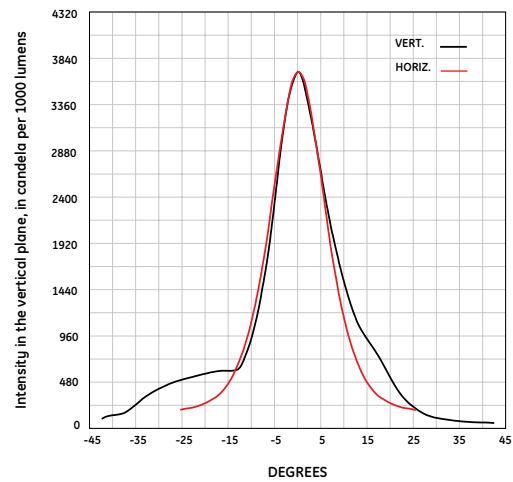
Dimensions (mm)



FUENLABRADA, MADRID, SPAIN

Photometric data

SBF/C/MH150
POS. PORTA. FIJA



SBF

CEI 34.21 /EN 60598-1, IEC 60598 - 230V 50Hz - Class I - IP55 - IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
SBF D HPS 50W	LU50/85/MO/T/E27	3.15	519639
SBF C HPS 50W	LU50/85/MO/T/E27	3.15	519634
SBF D HPS 70W	LU70/90/MO/T/E27	3.15	519640
SBF C HPS 70W	LU70/90/MO/T/E27	3.15	519635
SBF D MH 70W	CMH70/TT/UVC/830/E27	3.50	519641
SBF C MH 70W	CMH70/TT/UVC/830/E27	4.00	519636
SBF D MH 100W	CMH100/TT/UVC/830/E40	4.00	519642
SBF C MH 100W	CMH100/TT/UVC/830/E40	3.65	519637
SBF C MH 150W	CMH150/TT/UVC/830/E40	4.50	519638
SBF D MH 150W	CMH150/TT/UVC/830/E40	4.50	519643

Beam: D - wide
C - narrow



AVDA. DE AMÉRICA, MADRID, SPAIN



Application

For lighting of sports tracks, car parks, building facades, railway platforms, storage areas, etc. For smaller streets, mounting the floodlight on facades.

Technical specification

Compact design floodlight, with integrated ballast, for high-intensity discharge lamps up to 250W and wide-beam reflector with lamp mounted parallel to the support bracket. A roadway-type reflector, up to 150W, is optional for urban lighting.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Hinged, detachable access door.

Electrical and gear compartment

Integrated ballast in high power factor. With a protection degree IP65.

For Mercury Vapor, HPS and Metal Halide (MH) lamps up to 250W. Consult for mounting with HPS or MH double-ended lamps.

Mounting receptacle with PG-13.5 cable gland.

Insulation class I.

Optics

Optical assembly sealed providing IP65, comprising:

- Flat tempered glass lens sealed with silicone to the door.
- Aluminium reflectors with two optics available, a broad rectangular and a roadway-type beam.
- EPDM gasket between housing and door.

Maintenance

Front access to lamp and control gear.

Screw opening of luminaire. Optional tool-less opening.

Installation

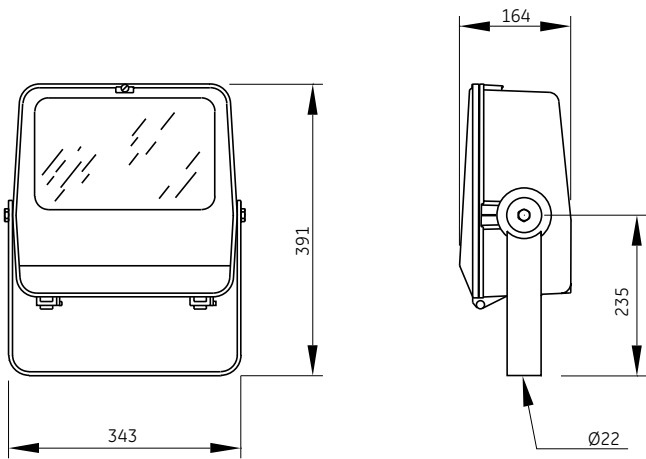
Mounting by way of heavy-gauge steel bracket with aiming degree indicator.

Aiming by way of integrated sight.

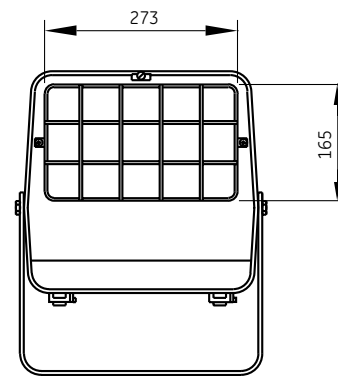
Accessories/options

- Optional tool-less opening by means of stainless steel latches (R).
- The floodlight may incorporate a fuse. FUS option.
- Accessories for glare control visors and louvres, polycarbonate vandal shields, wire guards, etc.

Dimensions (mm)

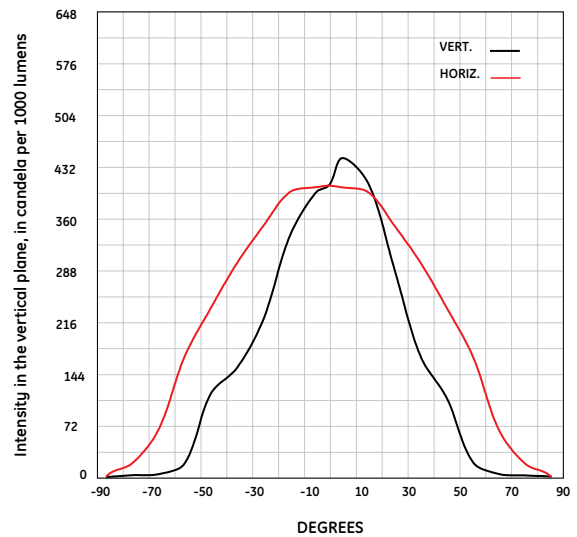


VISOR WIRE GUARD



Photometric data

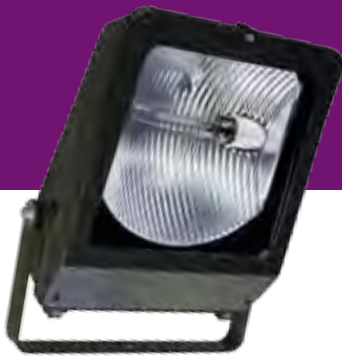
PFE-154/7x6/VHPS100
POS. PORTA. FIJA



PFE-154

CEI 34.21 /EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP65 – IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
PFE-154 HPS 50W	LU50/85/MO/T/E27	5.75	519620
PFE-154 HPS 70W	LU 70/90/MO/T/E27	5.85	519621
PFE-154 HPS 100W	LU100/100/MO/T/40	5.85	519622
PFE-154 HPS 150W	LU150/100/40	6.30	519623
PFE-154 HPS 250W	LU250/T/40	9.00	519624
PFE-154 MH 150W	CMH150/TT/UVC/830/E40	6.30	519625
PFE-154 MH 250W	CMH250/TT/UVC/U/830/E40	9.90	519626



Application

For lighting of sports tracks, open-air car parks, building facades, railway platforms, storage areas, motorway junctions, etc.

Technical specification

The various highly efficient optics available provide multiple light beam patterns, from narrow to very wide.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Hinged, detachable access door.

Electrical and gear compartment

Electrical unit fitted to removable tray. With a protection degree IP66.

For Mercury Vapor (MV), HPS and Metal Halide (MH) lamps up to 750W.

A bi-power system can be fitted to the MV or HPS lamps up to 400W.

Two HPS or MH lamps up to 2x250W may be fitted. Consult photometric table.

Mounting receptacle with PG-13.5 cable gland. Optional fitting of second cable gland.

Insulation class I.

Optics

Optical assembly sealed providing IP66, comprising:

- Flat tempered glass lens sealed with silicone to the door.
- Faceted or smooth aluminium reflectors (four types) for different photometric distributions.
- Extruded EPDM gasket between housing and door.

Maintenance

Front access to lamp and control gear.

Screw opening of luminaire. Optional tool-less opening.

Installation

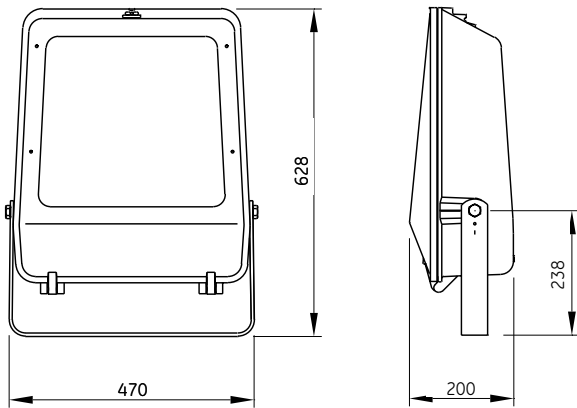
Mounting by way of heavy-gauge steel bracket with aiming degree indicator.

Aiming by way of integrated sight.

Accessories/options

- Optional tool-less opening by means of stainless steel latches (R).
- The floodlight may incorporate a fuse. FUS option.
- Accessories for glare control visors and louvres, polycarbonate vandal shields, wire guards, etc.

Dimensions (mm)



PFE-400 Optics

CEI 34.21 / EN 60598-1, IEC 60598 - 230V 50Hz - Class I - IP65 - IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
Optics: 3x2			
PFE-400/3*2 MH 400W (HPS)	CMH400/TT/UVC/U/830/E40	17.50	88041
Optics: 4x2			
PFE-400 4X2 HPS 250W 230V 50Hz	LU250/T/40	11.7	519601
Optics: 4x4			
PFE-400/4*4 MH 400W (HPS)	CMH400/TT/UVC/U/830/E40	16.00	88042
Optics: 5x2			
PFE-400 5X2 HPS 400W 230V 50HZ	LU400/T/40	12.15	519605
PFE-400 5X2 HPS 600W 230V 50HZ	LU600/XO/T/40	17.90	519609
Optics: 5x4			
PFE-400 5X4 HPS 250W	LU250/T/40	11.70	519602
PFE-400 5X4 HPS 400W	LU400/T/40	12.15	519606
PFE-400 5X4 HPS 600W	LU600/XO/T/40	18.00	519610
Optics: 6x3			
PFE-400 6X3 HPS 250W	LU250/T/40	14.00	519603
PFE-400/6*3 MH 400W (HPS)	CMH400/TT/UVC/U/830/E40	12.80	88043
Optics: 6x4			
PFE-400 6X4 HPS 400W	LU400/T/40	12.15	519607
PFE-400 6X4 HPS 600W	LU600/XO/T/40	17.90	519611
Optics: 6x6			
PFE-400 6X6 HPS 250W	LU250/T/40	11.70	519604
PFE-400/6*6 MH 250W (HPS)	CMH250/TT/UVC/U/830/E40	9.45	88040
Optics: 7x6			
PFE-400 7X6 HPS 400W	LU400/T/40	12.15	519608
PFE-400/7*6 MH 400W (HPS)	CMH400/TT/UVC/U/830/E40	6.30	88044
PFE-400 7X6 HPS 600W	LU600/XO/T/40	17.90	519612

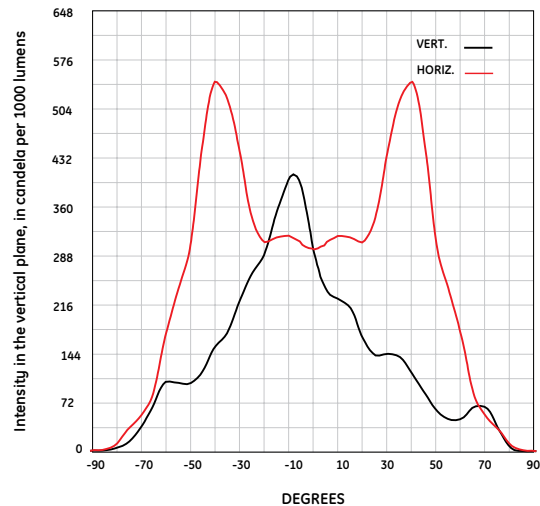
PFE-400 Housing

CEI 34.21 / EN 60598-1, IEC 60598 - 230V 50Hz - Class I - IP65 - IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
PFE-400 SYM HPS 150W RC	LU150/100/40	11.30	519476
PFE-400 SYM HPS 100W RC	LU100/100/MO/T/40	10.40	519475
PFE-400 CBM HPS 250W RC	LU250/T/40	12.20	519471
PFE-400 CBM HPS 400W RC	LU400/T/40	12.65	519472
PFE-400 CBM HPS 100W	LU100/100/MO/T/40	9.80	519561
PFE-400 CBM HPS 100W	LU100/100/MO/T/40	9.80	519561

Photometric data

PFE-400/7x6/MH400
POS. PORTA. FIJA



PFE-1000



Application

Illumination of extensive outdoor areas such as car parks, sports facilities, recreational areas, facades, airport aprons, motorway junctions and intersections.

Technical specification

The different optics available provide a rectangular beam and offer extraordinary vertical cut-off control.

Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9011 black.

Hinged, detachable access door.

Electrical and gear compartment

Electrical unit fitted to removable tray. With a protection degree IP65.

For HPS and Metal Halide lamps up to 1000W.

For special mountings with two lamps (maximum 2x400W), consult us. Insulation class I.

Optics

Optical assembly sealed providing IP65, comprising:

- Flat tempered glass lens sealed with silicone to the door.
- Aluminium reflectors with various optics offering a rectangular beam.
- EPDM gasket between housing and door.

Maintenance

Front access to lamp and control gear.

Screw opening of luminaire.

Installation

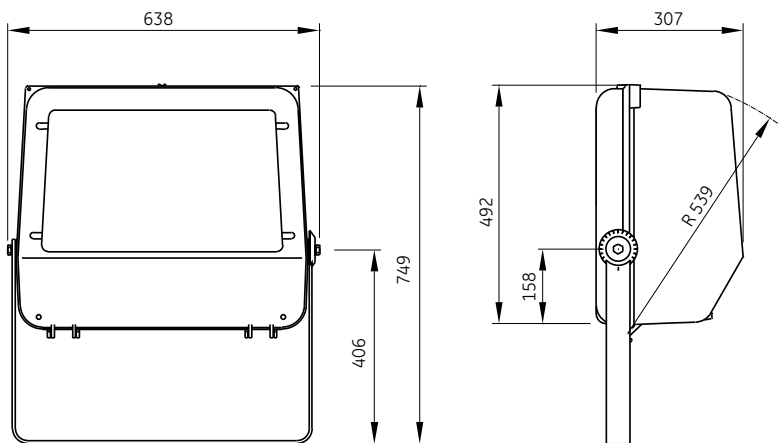
Mounting by way of heavy-gauge steel brackets with aiming degree indicator. Other brackets available upon request.

Aiming by way of integrated sight.

Accessories/options

- The floodlight may incorporate a fuse. FUS option.
- Accessories for glare control visors and louvres, polycarbonate vandal shields, wire guards, etc.

Dimensions (mm)



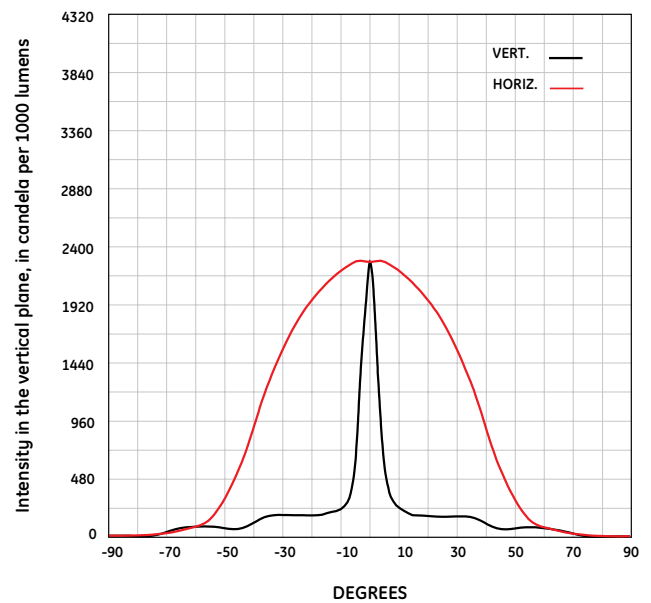
PFE-1000

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP65 – IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
Optics: 6x2			
PFE-1000 6X2 HPS 400W	LU400/T/40	17.00	519587
PFE-1000 6X2 HPS 600W	LU600/XO/T/40	20.00	519591
PFE-1000 6X2 HPS 1000W	LU1000/110/T/40	25.00	519595
Optics: 6x3			
PFE-1000 6X3 HPS 400W	LU400/T/40	17.00	519588
PFE-1000 6X3 HPS 600W	LU600/XO/T/40	20.00	519592
PFE-1000 6X3 HPS 1000W	LU1000/110/T/40	25.00	519596
Optics: 6x5			
PFE-1000 6X5 HPS 400W	LU400/T/40	17.00	519589
PFE-1000 6X5 HPS 600W	LU600/XO/T/40	20.00	519593
PFE-1000 6X5 HPS 1000W	LU1000/110/T/40	25.00	519597
PFE-1000 6X5 MH1000W	MVR1000/U/40	22.50	519599
Optics: 7x7			
PFE-1000 7X7 HPS 400W	LU400/T/40	17.00	519590
PFE-1000 7X7 HPS 600W	LU600/XO/T/40	20.00	519594
PFE-1000 7X7 HPS 1000W	LU1000/110/T/40	25.00	519598
PFE-1000 7X7 MH1000W	MVR1000/U/40	22.50	519600

Photometric data

PFE-1000/6x2/VHPS1000
POS. PORTA. FIJA





PÉCS, HUNGARY

Application

Illumination of extensive outdoor areas such as car parks, sports facilities, recreational areas, facades, airport aprons, motorway junctions and intersections.

Technical specification

Floodlight with integrated ballast compartment for single-ended HPS and Metal Halide (MH) lamps up to 1000W. The different optics available provide a rectangular beam and offer extraordinary vertical cut-off control. Luminaire, ballast and lamp are supplied and tested by GE, ensuring continuity of product quality.

Structure and material

Housing in two parts (housing and door) in die-cast aluminium, electrostatically sprayed with a polyester powder paint finish, following anti-corrosion priming, and oven cured at 180°C.

Standard colour: RAL 9005 black.

Hinged, detachable access door.

Electrical and gear compartment

Electrical unit fitted to removable tray. With a protection degree IP65.

For HPS and MH lamps up to 1000W.

For special mountings with two lamps (maximum 2x400W), available on request.

Insulation class I.

Optics

Optical assembly sealed providing IP65, comprising:

- Flat tempered glass lens sealed with silicone to the door.
- Aluminium reflectors with various optics offering a rectangular beam.
- EPDM gasket between housing and door.

Lamp

Luminaire complete with GE lamp

- for S types – Lucalox™ HPS lamp
- for M types – ConstantColor™ CMH or Quartz Metal Halide lamp

Maintenance

Frontal access to lamp and control gear.

Screw opening of luminaire.

Installation

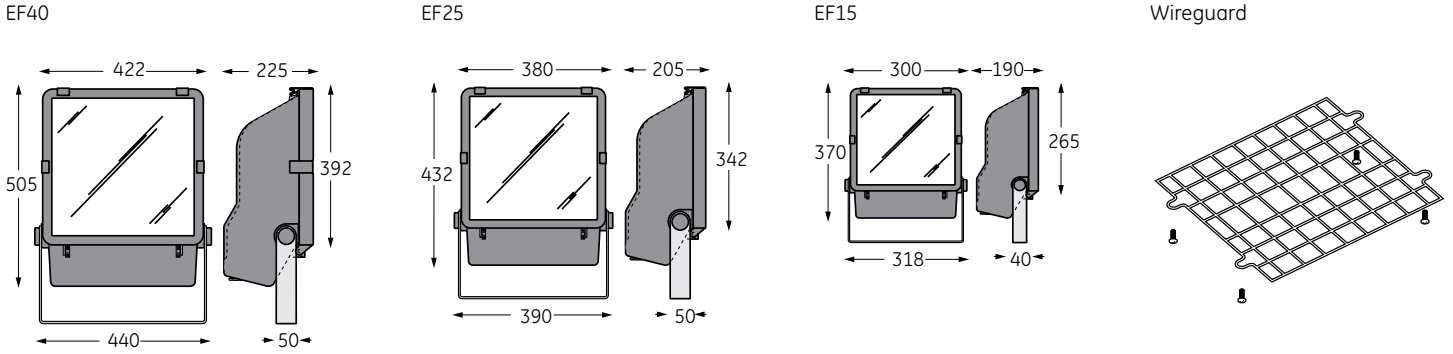
Mounting by way of heavy-gauge steel brackets with aiming degree indicator. Other brackets available upon request.

Aiming by way of integrated sight.

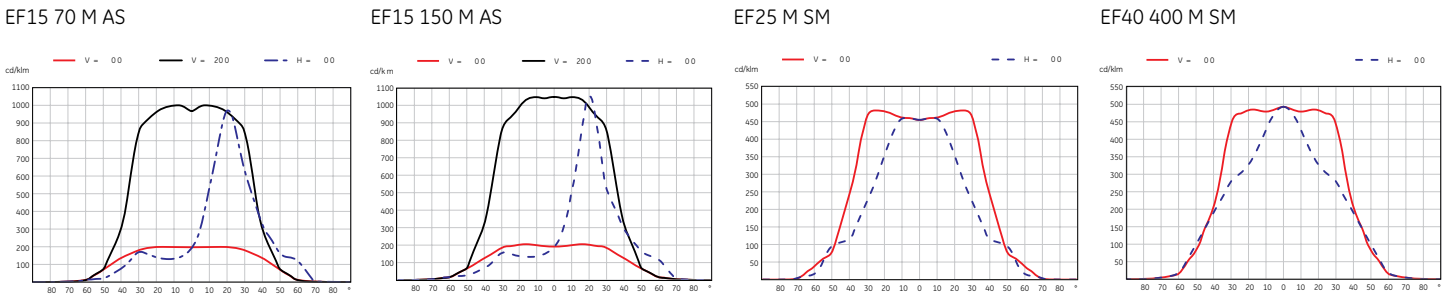
Accessories/option

- The floodlight may incorporate a fuse. FUS option.
- Accessories for glare control visors and louvres, polycarbonate vandal shields, wire guards, etc.

Dimensions (mm)



Photometric data



EF 15

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP65
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Product code
EF15 70 S AS	LU70/90/MO/T/E27	5.00	42882
EF15 70 M AS	ARC70/UVC/TD/742/RX7S	5.00	42883
EF15 100 M AS	CMH100/E/UVC/U/830/E27/C	5.00	42884
EF15 150 M AS	ARC150/UVC/TD/742/RX7S-24	5.00	42885
EF15 150 M AS CMH	CMH150/TD/UVC/942/RX7S-24	5.00	42903

EF 25

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Product code
EF25 150 S AS	LU150/100/T/40	9.50	42886
EF25 150 S SM	LU150/100/T/40	9.50	42888
EF25 250 S AS	LU250/T/40	9.50	42889
EF25 250 S SM	LU250/T/40	9.50	42890
EF25 250 M AS	ARC250/T/H/742/E40	9.50	42891
EF25 250 M SM	ARC250/T/H/742/E40	9.50	42892
EF25 250 M AS CMH	CMH250/T/U/830/E40	9.50	42880
EF25 250 M SM CMH	CMH250/T/U/830/E40	9.50	42879

Lamp: S – High Pressure Sodium lamp
M – Metal Halide lamp
CMH – ConstantColor™ CMH Ceramic Metal Halide lamp
Optics: AS – Asymmetrical
S – Symmetrical

EF 40

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP65
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Product code
EF40 250 S AS	LU250/T/40	10.90	42893
EF40 250 S SM	LU250/T/40	10.90	42894
EF40 250 M AS	ARC250/T/H/742/E40	10.90	42895
EF40 250 M SM	ARC250/T/H/742/E40	10.90	42896
EF40 400 M AS	ARC400/T/H/742/E40	10.90	42898
EF40 400 M SM	ARC400/T/H/742/E40	10.90	42899
EF40 400 S AS	LU400/T/40	10.90	43070
EF40 400 S SM	LU400/T/40	10.90	42897
EF40 400 M K A S	KRC400/T/H/960/E40	10.90	42901
EF40 400 M K SM	KRC400/T/H/960/E40	10.90	42902
EF40 400 M AS CMH	CMH400/TT/UVC/U/830/E40	10.90	42878
EF40 400 M SM CMH	CMH400/TT/UVC/U/830/E40	10.90	42877
EF40 600 S SM	LU600/XO/T/40	10.90	42900

Lamp: S – High Pressure Sodium lamp
M – Metal Halide lamp
CMH – ConstantColor™ CMH Ceramic Metal Halide lamp
Optics: AS – Asymmetrical
S – Symmetrical

Accessories

Type	Description	Weight (kg)	Product code
EFG15	GRID EF15	1.80	43389
EFG25	GRID EF25	2.80	43390
EFG40	GRID EF40	0.34	43393
EFV15	GLASS/FRAME EF15	0.98	43394
EFV25	GLASS/FRAME EF25	1.18	43395
EFV40	GLASS/FRAME EF40	1.31	43396



MASTERPAK



Application

For signs, facades, parks and gardens, displays and monuments.

Technical specification

Very compact design floodlight, with symmetrical beam for double-ended Metal Halide lamps. Can be installed on all normal surfaces.

Structure and material

Black polyurethane powder coated, die-cast aluminium, screws in galvanized steel.

Standard colour: RAL 9005 black.

Stainless steel screws.

Electrical and gear compartment

The control gear is housed in a box in rear of the fitting body.

Black, fibreglass-reinforced nylon with PG 11 cable-clamp and fixed to the rear of the body by stainless steel screws. Cover opens on a hinge.

Ballast mounted to a removable zinc plate.

Works with double-ended 70W Metal Halide lamps.

Optics

Optical assembly providing IP55, comprising:

- Flat clear tempered glass lens. The lens is mechanical and thermal shock resistant. Held in a black die-cast aluminium frame.
- Silicone rubber gasket.
- Symmetrical reflector, 99.8% anodized and polished aluminium with hammer-tone finish.
- Lamp operating position: horizontal $\pm 45^\circ$.

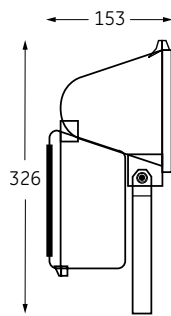
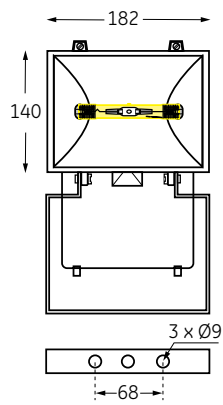
Maintenance

Front access via screws/removable door.

Installation

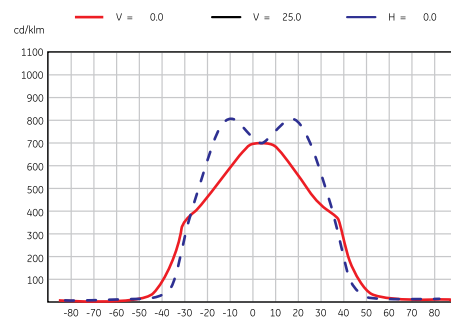
Mounting by galvanized steel bracket with black painted finish.

Dimensions (mm)



Photometric data

MASTERPAK 70



MASTERPAK

CEI 34.21 / EN 60598-1 - 50Hz - Class I - IP55
Luminaire supplied without lamp

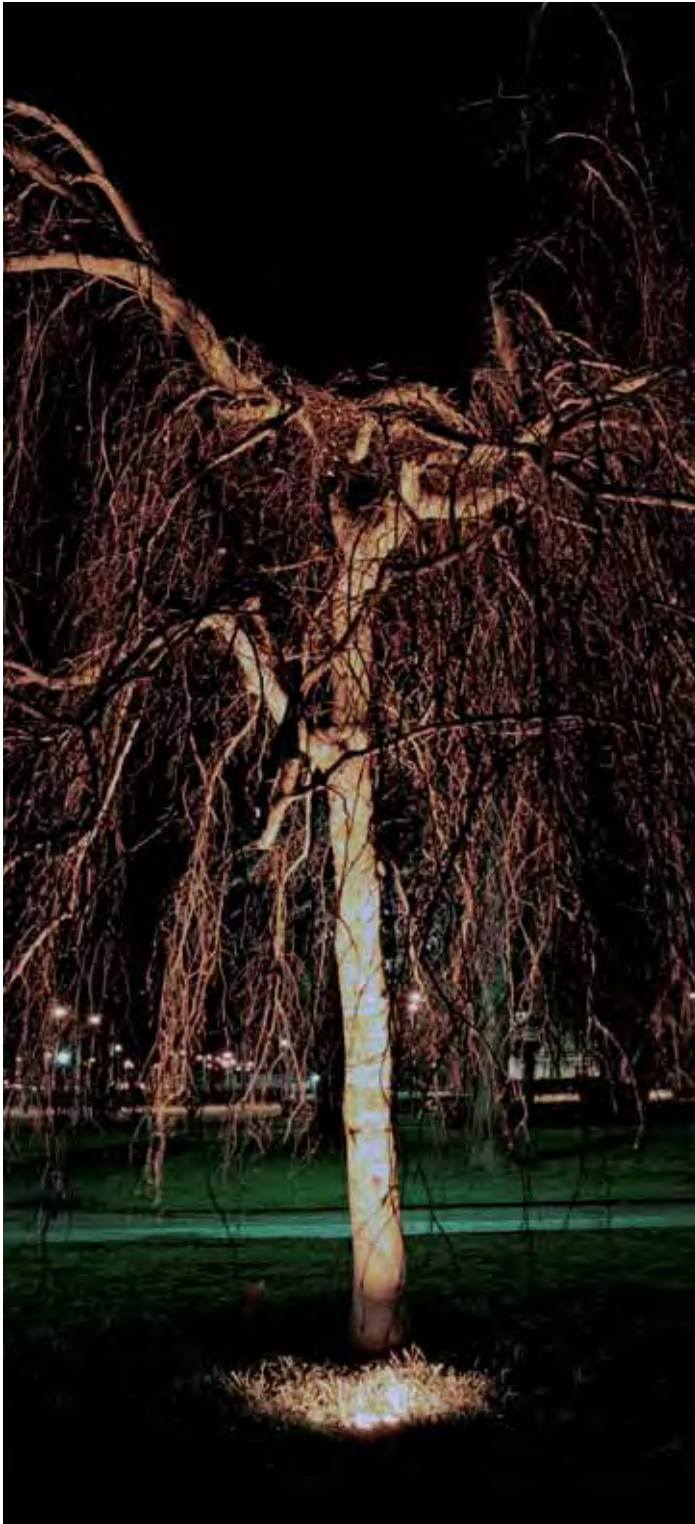
Description	Lamp	Surface exposed to wind (m ²)	Weight (kg)	Pack qty	Product code
MASTERPAK 70	ARC70/TDRx7S	81	3.25	1	30727

Accessory

Type	Description	Weight (kg)	Pack qty	Product code
VHA 5	Front cover glass	1	1	7002511



HALOPAK



Application

Sports lighting and extensive areas such as stadiums, recreational areas, airport aprons, racecourses, open air car parks, etc.

Technical specification

Symmetrical beam floodlights for R7s-15 cap linear halogen lamps from 150W to 1500W.

Luminaire, ballast and lamp are supplied and tested by GE, ensuring the best possible product quality.

Structure and material

Black or white polyester epoxy powder coated, die-cast aluminium. Screws in galvanized steel.

Electrical and gear compartment

The control gear is housed in a box in rear of the fitting body.

Black, fibreglass-reinforced nylon with PG 11 cable-clamp and fixed to the rear of the body by stainless steel screws. Cover opens on a hinge.

Ballast mounted to a removable zinc plate.

Works with halogen lamps up to 1500W.

Optics

Optical assembly providing IP55, comprising:

Flat clear tempered glass lens. The lens is mechanical and thermal shock resistant. Held in a die-cast aluminium frame, same colour as the body. Silicone rubber gasket.

Symmetrical reflector, 99.8% anodized and polished aluminium with hammer-tone finish.

Lamp operating position: horizontal $\pm 4^\circ$.

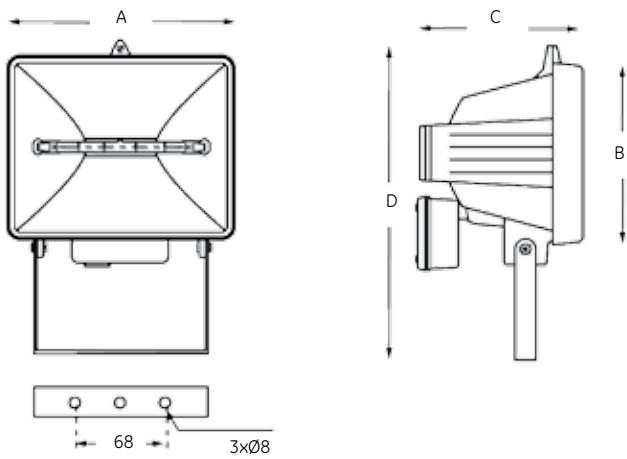
Lamp

Luminaire complete double-ended halogen lamp.

Maintenance

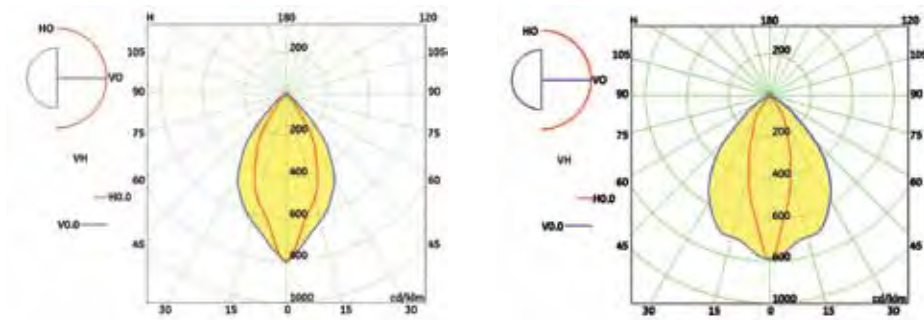
Front access via screws/removable door.

Dimensions (mm)



Type	Dimensions (mm)			
	A	B	C	D
HALOPAK 1	139	98	96	178
HALOPAK 3	185	151	134	246
HALOPAK 1000	345	230	180	365
HALOPAK 1500	408	230	180	365

Photometric data



HALOPAK

CEI 34.21 / EN 60598-1 - 50Hz - Class I - IP55 - IK04
Luminaire complete with lamp

Description	Lamp	Surface exposed to wind (m²)	Weight (kg)	Pack qty	Product code
HALOPAK 1 BK	K12/Q150 T2.5/CL	0.024	0.40	24	17500
HALOPAK 1 WH	K12/Q150 T2.5/CL	0.024	0.40	24	17501
HALOPAK 3 BK	K9/Q300 T2.5/CL	0.03	0.70	12	17502
HALOPAK 3 WH	K9/Q300 T2.5/CL	0.03	0.70	12	17513
HALOPAK 1000	K4/Q1000 T3/CL	0.082	4.00	1	44375
HALOPAK 1500	K5/Q1500 T3/CL	0.099	3.65	1	44376

Colour: BK - black
WH - white

Accessories

Type	Description	Weight (kg)	Pack qty	Product code
VHA 10	Front cover glass for HALOPAK 1000	1.06	1	31085
VHA 15	Front cover glass for HALOPAK 1500	1.20	1	31086
PTL HAL 10/15	HALOPAK 1000 and 1500 Lamp holder	0.48	1	31366



VICAR, ITALY



HUELVA, SPAIN

Application

Sports lighting and extensive areas such as stadiums, recreational areas, airport aprons, racecourses, open-air car parks, etc. High-roofed large premises such as sports and exhibition halls.

Technical specification

Built-in housing for the starter and remote assembly for the rest of the control gear. Different optics available with internal glare control louvres. Luminaire, ballast and lamp are supplied and tested by GE, ensuring the best possible product quality.

Structure and material

Housing, rear door, and glass lens holder in die-cast aluminium with a RAL 7035 grey polyester powder paint finish, following anti-corrosion priming, oven cured at 180°C. Door in the rear of the housing offering access to the lamp with electrical disconnection on opening. External screws in stainless steel.

Electrical and gear compartment

Box for housing the standard ignitor and terminal block, manufactured in fibreglass reinforced polyamide, is attached to the rear of the floodlight and has PC13.5 cable glands. The reactor and condensers as necessary, or the instant hot restrike system are remotely mounted. The auxiliary control gear can be supplied mounted in a water proof box, on a tray or separate for mounting in a cabinet. Suitable for 1000 and 2000W double-ended Metal Halide (MH) lamps, as well as for 1000W HPS and MH lamps with E40 cap.

Optics

Enclosed optical assembly sealed providing IP65, comprising:

- Front tempered glass lens in a cast aluminium frame, with a silicone gasket between the frame and the housing.
- 6 aluminium reflectors with different photometric distributions, giving a rectangular beam in lamps with E40 holder and an oval beam in double-ended lamps.
- Internal aluminium louvre in the reflectors for glare control and reduction of sky-glow.

Maintenance

Lamp replacement without disturbing the floodlight's aiming position.

Installation

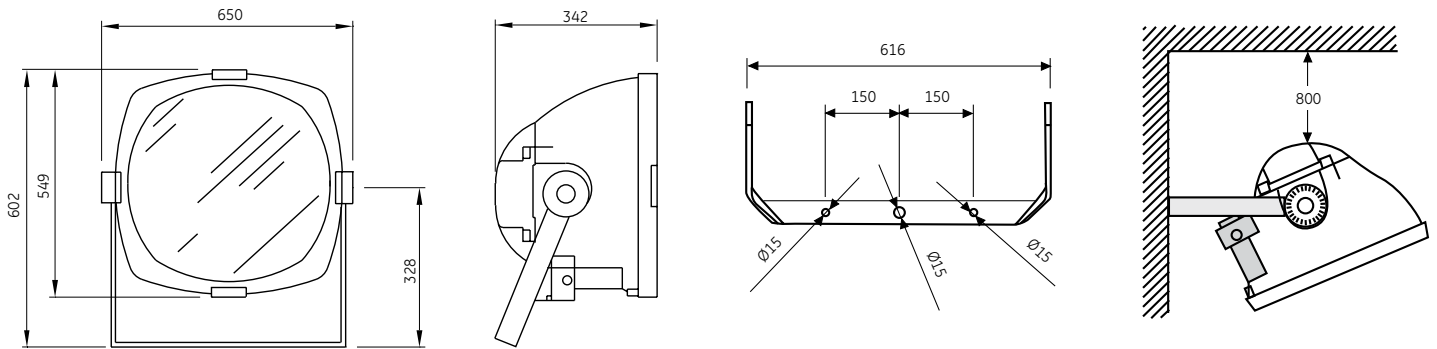
Mounting via a steel bracket, painted the same as the housing, with aiming degree indicator.

The standard version of this floodlight should not be installed at more than 140° from the vertical. For greater inclinations please contact us.

Accessories/options

Hot re-strike system (HRR) allows instant re-lighting (hot strike). To facilitate an easier lamp relighting it is recommended to use the Nikrome ignitor wire for double-ended lamps.

Dimensions (mm)



EF2000 – Gear box

CEI 34.21 / EN 60598-1, IEC 60598 – 50Hz – Class I – IP65 – IK08
Luminaire supplied without lamp

Description	Weight (kg)	Product code
CSAM1000 HPF 230V No Ignitor	12.8	92722
CSA CSAM2000 LPF 10,3A 400V No Ignitor	17	92721
C/E MH1000 9,5 A IP 65 No Ignitor HRR	12.8	524001
C/E MH2000 400V 10,3 A IP65 No Ignitor HR	17	92727
C/E HPS1000 10,3A IP65 No Ignitor	12.8	523999

EF2000 – Floodlight

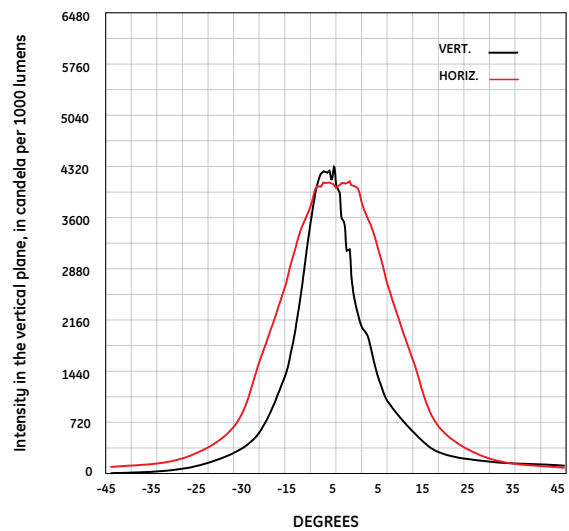
CEI 34.21 / EN 60598-1, IEC 60598 – 50Hz – Class I – IP65 – IK08
Luminaire supplied without lamp

Description	Weight (kg)	Product code
Optics: ultraspot		
EF2 US 1000 LL DOUBLE ENDED S/LAMP	16	519568
EF2 US 2000 DOUBLE ENDED S/LAMP	16	78146
EF2 US 1000HRR DOUBLE ENDED S/LAMP	16	523880
EF2 US 2000HR DOUBLE ENDED S/LAMP	16	78150
Optics: spot		
EF2 S 1000 LL DOUBLE ENDED S/LAMP	16	523877
EF2 S 2000 DOUBLE ENDED S/LAMP	16	78147
EF2 1000HRR DOUBLE ENDED S/LAMP	16	523881
EF2 S 2000HR DOUBLE ENDED S/LAMP	16	78151
Optics: medium sport		
EF2 MS 1000 LL DOUBLE ENDED	16	523878
EF2 MS 2000 DOUBLE ENDED S/LAMP	16	523879
EF2 MS 1000HRR DOUBLE ENDED S/LAMP	16	523882
EF2 MS 2000HR DOUBLE ENDED S/LAMP	16	513060
Optics: medium		
EF2 M 1000 LL DOUBLE ENDED	16	519569
EF2 M 2000 DOUBLE ENDED S/LAMP	16	78155
EF2 M 1000HRR DOUBLE ENDED S/LAMP	16	523883
EF2 M 2000HRR DOUBLE ENDED S/LAMP	16	78152
EF-2000 MH1000 E40 MEDIUM 230V 50Hz	16	513063
EF-2000 HPS 1000W E40 MEDIUM 230V 50Hz	16	513064
Optics: medium wide		
EF2 MW 1000 LL DOUBLE ENDED	16	519570
EF2 MW 2000 DOUBLE ENDED S/LAMP	16	78148
EF2 MW 1000HRR DOUBLE ENDED S/LAMP	16	523884
EF2 MW 2000HR DOUBLE ENDED S/LAMP	16	78153
Optics: wide		
EF2 W 1000 LL DOUBLE ENDED	16	519571
EF2 W 2000 DOUBLE ENDED S/LAMP	16	78149
EF2 W 1000HRR DOUBLE ENDED S/LAMP	16	523882
EF2 W 2000HR DOUBLE ENDED S/LAMP	16	78154
EF-2000 MH1000 E40 WIDE 230V 50Hz	16	513065
EF-2000 HPS 1000W E40 WIDE 230V 50Hz	16	513066

HR – with hot restrike system and double-ended lamps

Photometric data

EF2-MED/HR/MH2000
POS. PORTA. FIJA





Application

Sports lighting and extensive areas such as stadiums, recreational areas, airport aprons, racecourses, open-air car parks, etc. High-roofed large premises such as sports pavilions. Architectural lighting of buildings and monuments.

Technical specification

Multiple circular beam optics are available, from very narrow to very wide, thus permitting optimized illumination designs with minimal light dispersion. Luminaire & ballast are supplied and tested by GE, ensuring the best possible product quality. GE lamps can be ordered separately.

Structure and material

Compact design, with ballast and lamp holder fixture in one single diecast aluminium housing, electrostatically sprayed with a RAL 7035 grey polyester powder paint finish, following anti-corrosion priming, oven cured at 180°C.

Electrical and gear compartment

230V integrated ballast in high power factor. IP54. Optional remote ballast fitting. The control gear is accessible from the front of the floodlight by removing the housing's aluminium cover.

PW allows HPS tubular lamps up to 1000W and Metal Halide up to 1650W. Insulation class I.

Optics

Optical assembly degree of protection IP55, comprising:

- Filtered optical system, comprising a circular aluminium reflector, with five different designs for distinct beam cut-offs.
- A flat tempered glass lens, attached to the reflector a hinged metallic rim with stainless steel latches, for tool-less access.
- Silicone gasket between glass lens and reflector and between the reflector and the lamp holder fixture.

Maintenance

Tool-less access to the lamp, from the front of the floodlight.

Installation

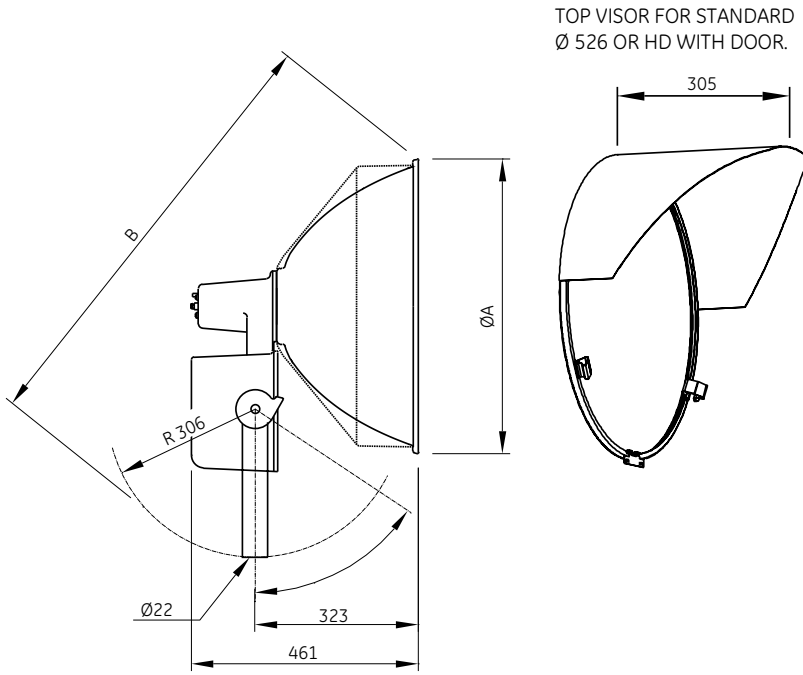
Aiming via folding sight, built into the ballast compartment.

Mounting by way of heavy gauge steel bracket with aiming degree indicator and locking plate system for securing the tilt angle.

Accessories/options

- The floodlight can be supplied with a longer bracket for pendant mounting.
- The floodlight may incorporate a fuse. FUS option.
- The floodlight can incorporate an outer housing for the reflector, manufactured in heavy-duty spun aluminium. HD option.

Dimensions (mm)



A (mm)	B (mm)
584	872
526	795

Housing

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP54 – IK08
Luminaire supplied without lamp

Description	Lamp	Weight (kg)	Product code
PW HPS 1000W HOUSING	LU1000/110/T/40	20.70	519578
PW MH1000W HOUSING	MVR1000/U/40	16.20	519579
PW MH1650W HOUSING	MS1650/HOR/SPORT 60	17.10	519580

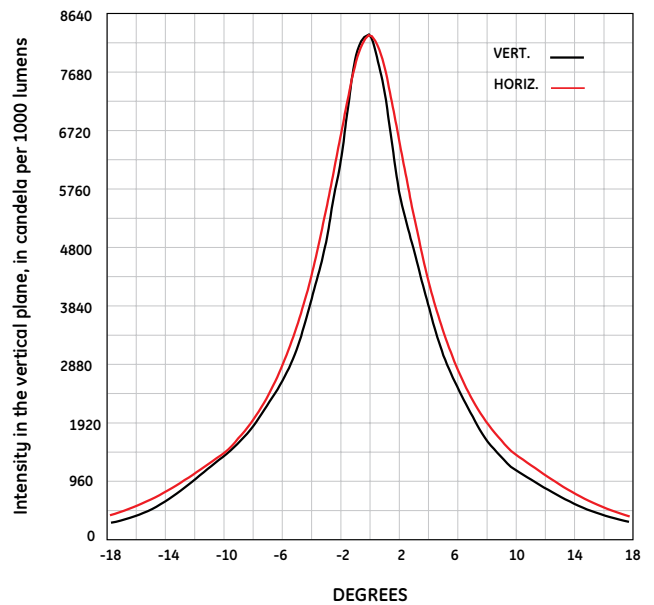
Optics

CEI 34.21 / EN 60598-1, IEC 60598 – 230V 50Hz – Class I – IP55
Luminaire supplied without lamp

Description	Weight (kg)	Product code
PW-20 B OPTICAL ASSEMBLY	3.50	519583
PW-20 C OPTICAL ASSEMBLY	3.50	519584
PW-20 D OPTICAL ASSEMBLY	3.50	519585
PW-20 E OPTICAL ASSEMBLY	3.50	519586
PW-22 A OPTICAL ASSEMBLY	3.50	519582
PW-22 A2 OPTICAL ASSEMBLY	3.50	519581

Photometric data

PW/2x2/MH1650
POS. PORTA. FIJA



INDOOR FUNCTIONAL





Industrial HID

EUROBAY	108
FILTERGLOW	110
VERSABEAM	112
LOW MOUNT	114
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ACCESSORIES	120

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Water proof

MARINER 5	122
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MARINER MAC	130

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SERIES 5500 T5	158
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SERIES 5500 T8	162
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SERIES 5506 T5 PENDANT	166
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SERIES 5500 LOUVRES	172

Industrial fluorescent

N-PACK NPP T5	132
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N-PACK T5 ACCESSORIES	136



Accessories to order separately

EBV-Protective glass

Tempered glass fixed to the reflector by three stainless steel clips; supplied with safety chain attached to the main body.

EBD-Diffuser Polycarbonate

UV-stabilized, self-extinguishing V0 polycarbonate, fixed by 6 clips to the body.

EBG-Wire guard

Galvanised steel wire guard used in conjunction with the protective glass, and supplied complete with safety chain.

Lamp

Complete with lamp.

Note

EBV protective glass is mandatory when luminaire is fitted with a Metal Halide lamp.

Application

Eurobay luminaires for interior application feature a low-profile design and can be equipped with Mercury Vapor, HPS or Metal Halide lamps of up to 400W. Version "CD" is also available, where an additional halogen lamp will light up and operate as long as the main discharge lamp can reach its rated power at switch on.

Ideal for industrial and commercial environments, with medium-high installation heights.

Technical specification

Main body

Die-cast aluminium body with slide-adjustable steel suspension hook for balancing the fitting.

Colour: RAL 7038 grey.

Wiring box

Connected to the main body and made from Polyamide fibreglass-reinforced 7038 RAL. The wiring box contains the lamp operating components, which are mounted on a removable galvanised steel plate. Accessed by way of a hinged door fitted with a neoprene gasket and secured by four stainless steel screws.

Reflectors

High purity aluminium reflector 99.85% anodised, mirror-finish aluminium reflector ideal for clear bulbs.

The reflector is fitted with a silicone gasket and secured to the main body by four screws. Designed to fit a wire guard and protective glass.

EBR reflector (to order separately)

EBRD reflector flood (to order separately)

Optics

Optical assembly providing IP23 for open luminaires or luminaires with wire guard. Also available IP65 for luminaires with protective glass, fixed to the reflector by three stainless steel clips.

EBV

Tempered glass fixed to the reflector by three stainless steel clips; supplied with safety chain attached to the main body (to order separately).

EBD

UV-stabilized, self-extinguishing V0 polycarbonate, fixed by 6 clips to the body (to order separately).

Cable inlet

The wiring box is fitted with a nylon PG13.5 cable gland for cable diameters of 9 to 12.5mm.

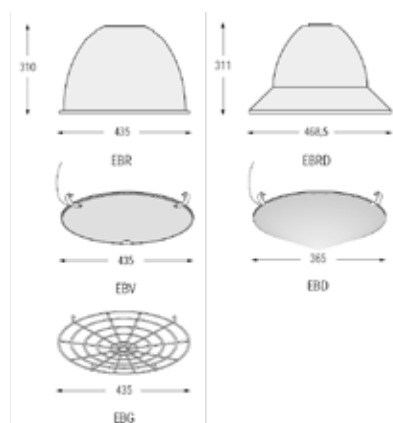
Lampholder

Plastic E40 version. The lampholder can be adjusted in 4 different positions to optimise light distribution in relation to the type of lamp used and the installation height.

Power supply

Magnetic ballast 230V 50Hz low-loss: 150W, 250W, 400W.

Dimensions (mm)



Eurobay gear-box without halogen lamp



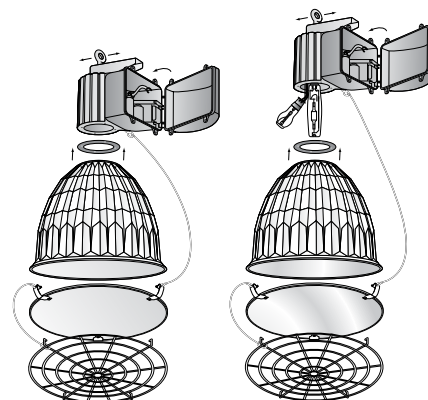
Fig. 1.

Eurobay gear-box with halogen lamp



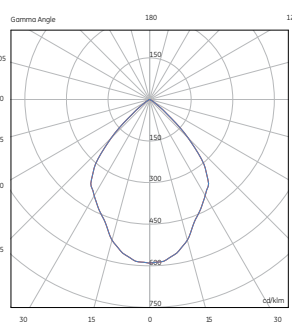
Fig. 2.

Instruction drawings for reflectors and optics

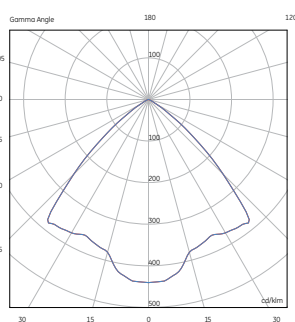


Photometric data

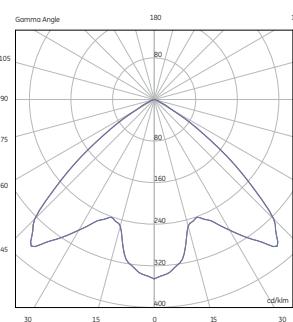
EUROBAY MH 400W + EBR POS.1



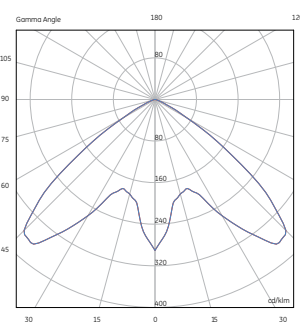
EUROBAY MH 400W + EBR POS.2



EUROBAY MH 400W + EBR POS.3



EUROBAY MH 400W + EBR POS.4



EUROBAY – Fig.1.

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
With protective glass IP65
For open luminaires or luminaires with wire guard IP23

Description	Lamp type	Weight (kg)	Pack qty	Product code
Mercury Vapor Lamp				
EUROBAY 250W H GY GREY CWL	H250/40	5.40	1	43040
EUROBAY 400W H GY GREY CWL	H400/40	6.60	1	43038
Metal Halide Lamp (CMH also)				
EUROBAY 150W M GY CMH GREY CWL	CMH150/TT/UVC/830/E40	4.30	1	43045
EUROBAY 250W M GY GREY CWL	ARC250/T/VBU/960/E40	5.40	1	43035
EUROBAY 250W M CMH GY CWL	CMH250/TT/UVC/E40	5.40	1	42951
EUROBAY 400W M GY GREY CWL	KRC400/T/VBU/960/E40	6.60	1	43032
EUROBAY 400W M CMH GY CWL	CMH400/T/VBU/830/E40	6.60	1	42943
HPS Lamp				
EUROBAY 150W S GY GREY CWL	LU150/100/40	4.30	1	43027
EUROBAY 250W S GY GREY CWL	LU250/T/40	5.40	1	43026
EUROBAY 400W S GY GREY CWL	LU400/T/40	6.60	1	43031

Body complete with lamp

EUROBAY CD - with auxiliary halogen lamp Fig.2.

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
With protective glass IP65
For open luminaires or luminaires with wire guard IP23

Description	Lamp type	Weight (kg)	Pack qty	Product code
Mercury Vapor Lamp				
EUROBAY 250W H CD GY GREY CWL	H250/40+ HALOBT/150W/CL 230V E27	5.60	1	43025
EUROBAY 400W H CD GY GREY CWL	H400/40+ HALOBT/150W/CL 230V E27	6.80	1	43024
Metal Halide Lamp (CMH also)				
EUROBAY 150W M CD CMH GY CWL	CMH150/TT/UVC/830/E40+ HALOBT/150W/CL 230V E27	4.00	1	43001
EUROBAY 250W M CD GY GREY CWL	ARC250/T/VBU/960/E40+ HALOBT/150W/CL 230V E27	6.80	1	43023
EUROBAY 250W M CD CMH GY CWL	CMH250/TT/UVC/E40+ HALOBT/150W/CL 230V E27	5.60	1	43000
EUROBAY 400W M CD GY GREY CWL	KRC400/T/VBU/960/40+ HALOBT/150W/CL 230V E27	6.80	1	43022
EUROBAY 400W M CD CMH GY CWL	CMH400/T/VBU/830/E40+ HALOBT/150W/CL 230V E27	6.80	1	42952
HPS Lamp				
EUROBAY 250W S CD GY GREY CWL	LU250/T/40+ HALOBT/150W/ CL 230V E27	5.60	1	43017
EUROBAY 400W S CD GY GREY CWL	LU400/T/40+ HALOBT/150W/ CL 230V E27	6.80	1	43015

Body complete with lamp

Reflectors and Accessories

Description	Lamp type	Weight (kg)	Pack qty	Product code
Reflector				
EBR	Reflector	1.20	4	10854
EBRD	Reflector Flood	0.85	4	17103
Accessories				
EBV	Protective Tempered Glass for EBR	0.48	4	43009
EBG	Wire guard for EBR	0.09	4	43010
EBD	Diffuser Polycarbonate for EBRD	1.10	4	43043



FILTERGLOW



Application

Luminaire suitable for use in damp environments, with an enclosed and filtered optical assembly, for discharge lamps up to 1000W. Particularly suitable for industrial lighting applications, including environments with a high level of dust and fumes; mounting height over 5 metres.

Technical specification

There are two sizes, FG-17 (up to 400W) and FG-22 (up to 1000W).

Ballast housing

Available in two sizes: AG5 up to 1000W and AP5 up to 400W. Die-cast aluminium ballast housing, with grey polyester powder paint finish applied electrostatically and cured at 180°C over an anti-corrosion layer.

The sliding disconnecter guarantees safe and easy electrical and mechanical connection to the optical assembly. Protected against accidental contact, the simple connection system also facilitates maintenance operations.

Easy installation using a 3/4" NPSC threaded hub, located in the housing and resistant to vibration.

Optical assembly

The die-cast conical cover houses the E40 porcelain lamp socket.

11 different socket positions are available and they can be easily changed on site with an ordinary screwdriver due to a die-cast inner spiral. The lamp socket is fitted with an anti-vibration device.

The borosilicate glass top cone directs some light towards the upper hemisphere, thus giving a more comfortable visual environment, lighting the ceilings and reducing the contrast between the luminaire and the surrounding environment.

The faceted reflector reduces the glare of the lamp and it is available in two sizes: FG-17 for luminaires up to 400W and FG-22 up to 1000W.

The tempered glass door is resistant to thermal and mechanical stress. Fixed in a metal ring with silicone gasket, it is fitted with a hinge and stainless steel latches which ensure easy removal.

Optionally, luminaires up to 400W can be supplied with a large ballast housing AG5 capable of operating ambient temperature up to 65°C.

For higher temperatures please request additional information.

Electrical and gear compartment

Ballast housing with a protection degree IP52, optional IP54.

Ballast housing AG5 support HPS and Metal Halide up to 1000W, ballast housing AP5 up to 250 and 400W.

The sliding disconnecter guarantees safe and easy electrical and mechanical connection to the optic. Electromagnetic ballast 230V 50Hz.

Notes

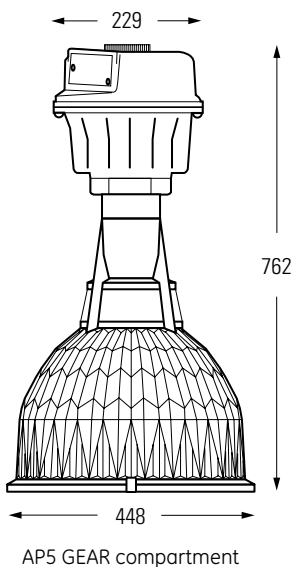
- For 600W to 1000W, always use the large optical assembly (FG-22) and the large ballast housing (AG5).
- The large optical assemblies (FG-22) can be used with a small ballast housing (AP5) up to 400W; in this case the photometric distribution is very narrow.
- When using luminaires without ballast housing or with remote ballast housing, it is possible to supply only optical assemblies with a male sliding connector. In this case, an A2 receptacle (see page 121) is required for mounting. This mounting accessory must be ordered separately. These optical assemblies must be ordered as FG-17/CC and FG-22/CC.
- For electronic emergency devices, fuses, suspension accessories, (i.e., HOOKM) etc., please see page 120. They must be ordered separately.

Lamp

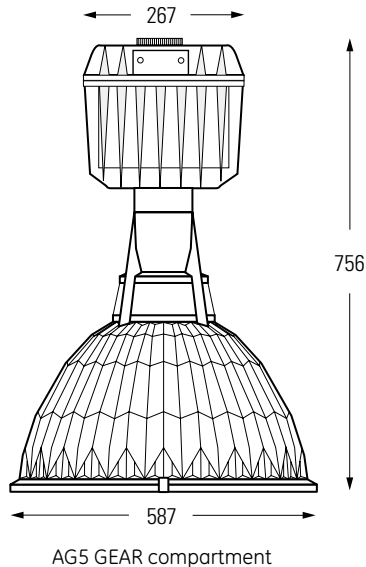
Luminaire supplied without lamp.

Dimensions (mm)

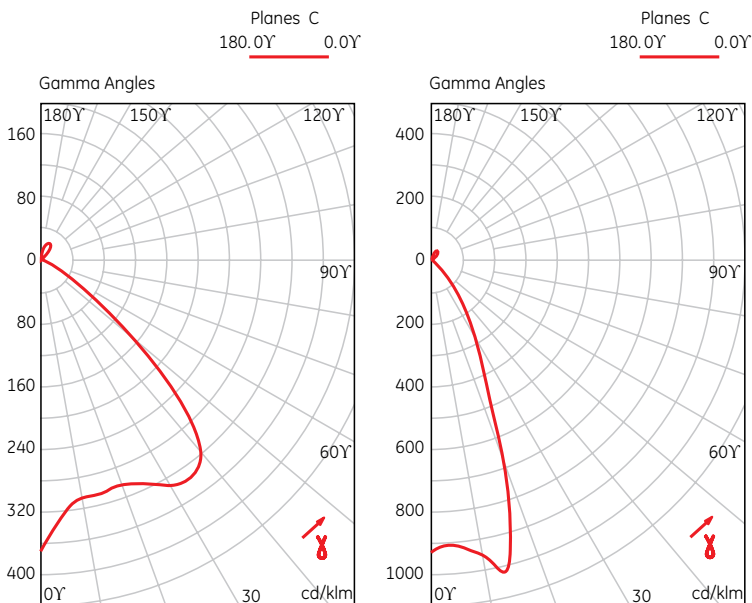
FG 17 Optical assembly



FG 22 Optical assembly



Photometric data



Gear box

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Standard IP52 – Optional IP54

Description	Lamp type	Weight (kg)	Pack qty	Product code
HPS Lamp				
GEAR BOX FG AP5 HPS 400W	LU400/T/40	8.10	1	519644
GEAR BOX FG AG5 HPS 600W	LU600/XO/T/40	10.30	1	519650
GEAR BOX FG AG5 HPS 1000W	LU1000/110/T/40	13.95	1	519651
Metal Halide CMH Lamp				
GEAR BOX FG AP5 CMH 250 T U	CMH250/TT/UVC/U/830/E40	8.10	1	519646
GEAR BOX FG AP5 CMH 400 T VBU	CMH400/TT/UVC/U/830/E40	8.10	1	519648

Optical assembly

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz

Description	Weight (kg)	Pack qty	Product code
FG-17 OPTICAL ASSEMBLY	3.60	3	519649
FG-22 OPTICAL ASSEMBLY	7.20	3	519653

Accessories

Description	Weight (kg)	Pack qty	Product code
Hooks 3/4"			
HOOKM standard	0.13	75	519701
HOOKM IP65	0.14	75	519702
Mounting receptacle A2 - For fittings without ballast housing or with remote ballast housing			
Mounting receptacle A2*	0.27	12	519461
Safety chain			
SFC-0 - for optical componenet, L=0.3 m	TBD	TBD	TBD
SFC3-B - for ballast componenet, L=0.9 m**	TBD	TBD	TBD
Fuse kits			
FK1-IND -with 1 fuse holder	TBD	TBD	TBD
FK2-IND - with 2 fuse holder	TBD	TBD	TBD

* only for the installation for optical assembly
**other lengths could be supplied on reque



Application

Enclosed luminaire, suitable for damp environments, for discharge lamps up to 400W. The acrylic diffuser has a technologically innovative design which, thanks to the combined reflection and refraction prisms, guarantees a high level of efficiency and extraordinary illumination of vertical surfaces, with great visual comfort.

Particularly suitable for sport, commercial and industrial applications, including environments with a high level of dust and fumes; mounting heights from 4 to 10 metres.

Technical specification

Ballast housing

Ballast housing for discharge lamps up to 400W max. Die-cast aluminium ballast housing, with grey polyester powder paint finish applied electrostatically and cured at 180°C over an anti-corrosion layer. Easy installation using a 3/4" NPSC threaded hub, located in the housing and resistant to vibrations.

Optical assembly

Aluminium spun reflector acting as a support for the acrylic reflector/refractor. Technologically innovative acrylic prismatic diffuser, injection moulded and UV stabilized, which can be removed without the need of tools to facilitate replacement of the lamp and is joined to the top aluminium reflector by hinge and latches.

EPDM gasket located between the acrylic diffuser and the top aluminium reflector, to guarantee the hermeticity of the optical assembly. Porcelain E40 lamp socket. Internal borosilicate glass refractor with total reflection prisms.

Installation

Easy installation using a 3/4" NPSC threaded hub, located in the housing and resistant to vibration.

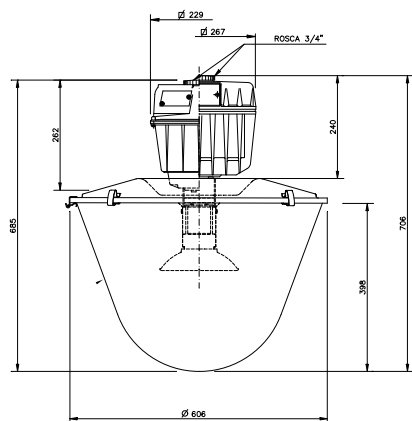
Notes

For electronic emergency devices, fuses, suspension accessories (i.e., HOOKM), etc., please see page 120. They must be ordered separately.

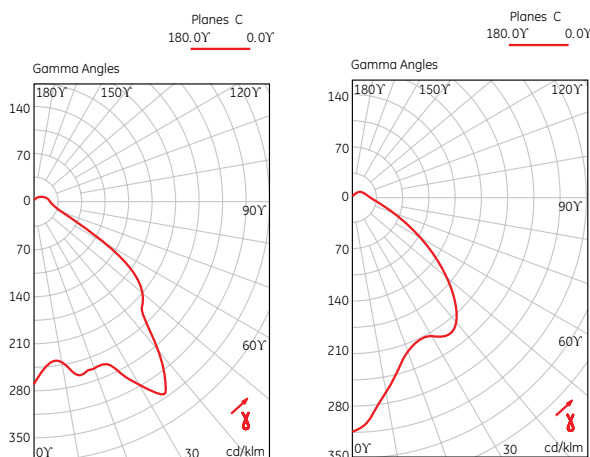
Lamp

Luminaire supplied without lamp.

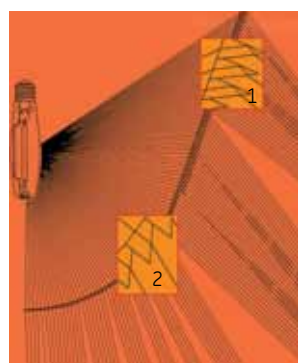
Dimensions (mm)



Photometric data



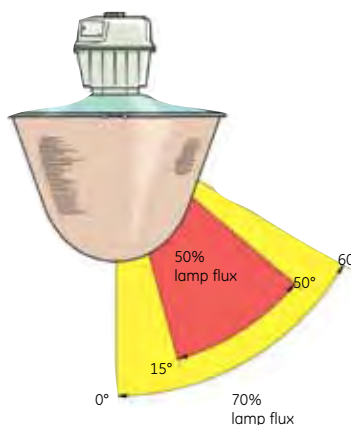
PERFORMING PRISM DESIGN



Optical performance
Acrylic diffuser with unique design which, thanks to the combination of reflecting/refracting prisms together with only refracting prisms, achieves a precise photometric control.

Prism design

1. Upper area of the diffuser with total internal reflection on the top side of prisms and refraction on the lower side.
2. Bottom area of the diffuser with refracting prisms only.



Results

- Over 90% efficiency.
- Utilisation factors superior to those with traditional design thanks to concentration of 50% of the lamp total flux between 15° and 50° vertical, and of 70% between 0° and 60°.
- Outstanding illumination of vertical surfaces, as 50% of total flux from the lamp is directed between 15° and 50° vertical.
- Reduced direct luminance, to avoid any discomfort, thanks to restriction of the flux above 60°.
- Reduced contrast between luminaire and surrounding environment, thanks to a small fraction of the light directed towards the upper hemisphere.

Gear box

CEI 34.21 / EN 60598-1, IEC 60 – Class I – IP52
230V/50Hz

Description	Lamp Type	Weight (kg)	Pack qty	Product code
HPS Lamp				
GEAR BOX UG-VSB AP5 HPS 400W	LU400/T/40	8.55	1	519654
GEAR BOX UG-VSB AG5 HPS 600W	LU600/XO/T/40	12.10	1	519660
GEAR BX UG-VSB AG5 HPS 1000W	LU1000/110/T/40	15.90	1	519661
Metal Halide CMH Lamp				
GEAR BXUG-VSB AP5 CMH250 T U	CMH250/TT/UVC/U/830/E40	8.55	1	519655
GEAR BXUG-VSB AP5 CMH400 T VBU	CMH400/TT/UVC/VBU/830/E40	9.90	1	519657

Without lamp

Optical assembly

CEI 34.21 / EN 60598-1, IEC 60 – Class I – IP52
230V/50Hz

Description	Weight (kg)	Pack qty	Product code
VSB OPTICAL ASSEMBLY	5.40	2	519665

Accessories

Description	Weight (kg)	Pack qty	Product code
Hooks 3/4"			
HOOKM standard *	0.13	75	519701
HOOKM IP65 *	0.14	75	519702
Mounting receptacle A2 – For fittings without ballast housing or with remote ballast housing			
Mounting receptacle A2*	0.27	12	519461
Safety chain			
SFC-0 - for optical component, L=0.3 m	TBD	TBD	TBD
SFC3-B - for ballast component, L=0.9 m**	TBD	TBD	TBD
Fuse kits			
FK1-IND - with 1 fuse holder	TBD	TBD	TBD
FK2-IND - with 2 fuse holder	TBD	TBD	TBD

* only when mounting receptacle A3 is used
** other lengths could be supplied on request

LOW MOUNT



Application

Enclosed luminaire for damp environments, with charcoal filtered optical assembly, for discharge lamps up to 250W (LOW-250) and up to 400W (LOW). The exclusive design of the faceted reflector and prismatic refractor gives low glare combined with high visual comfort. Factories, foundries, textile, metal, chemical, rubber, food and cement plants, and railway stations. Mounting height between 2.5 and 8 metres.

Technical specification

Electrical and gear compartment

Ballast housing

Body in die-cast aluminium, with grey polyester powder paint finish applied electrostatically and cured at 180°C, over an anti-corrosion layer. Easy installation using a central 3/4" NPSC anti-vibration threaded hub. Activated charcoal filter for the optical assembly. EPDM gasket supporting the optical assembly. Upper auxiliary reflector in faceted aluminium.

Optical assembly

Aluminium faceted reflector. UV stabilised acrylic prismatic reflector offering high visual comfort thanks to uniform light distribution over the whole surface. EPDM gasket located between the aluminium reflector and the acrylic refractor (model LOW only); in model LOW-250 the reflector and the refractor are fastened together and joined with a silicone seal. E40 or E27 porcelain lamp socket, according to the lamp used. In the LOW version it is fitted base down to reduce glare; in this case a disconnecter is provided to cut off the power supply when the optical assembly is opened. The optical assembly can be opened without using tools, thanks to the stainless steel hinge and latches.

LOW-250 OPTICAL ASSEM (DIFF & REF ASS) supports HPS and Metal Halide up to 150W and 250W.

LOW OPTICAL ASSEM (DIFF & REF ASS) supports HPS and Metal Halide up to 400W.

Installation and maintenance

Easy installation using a central 3/4" NPSC anti-vibration threaded hub. The optical assembly can be opened without using tools, thanks to the stainless steel hinge and latches.

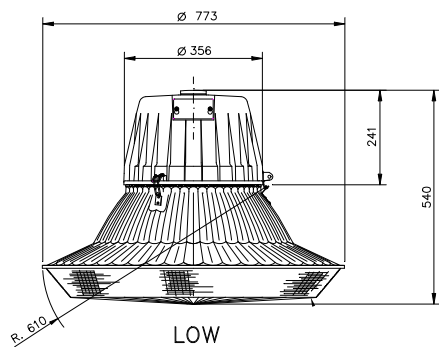
Notes

The reflector and refractor are connected with a gasket and a clampband. Can be supplied already assembled on request. Luminaire supplied without lamp.

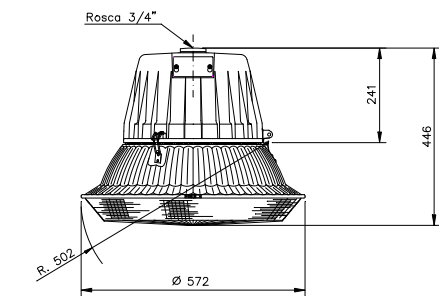
Accessories

Electronic emergency devices, fuses, suspension accessories (i.e. HOOKM), etc. They must be ordered separately.

Dimensions (mm)

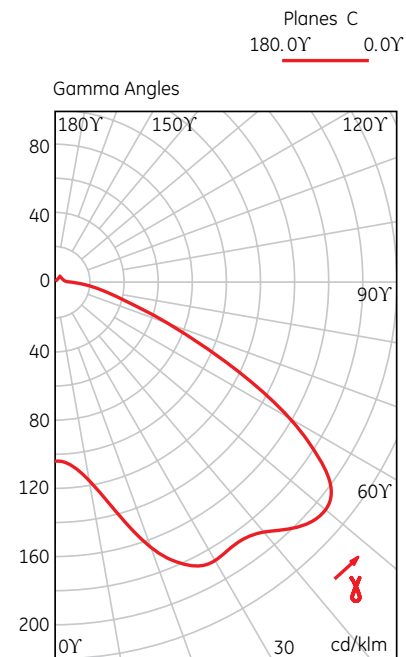
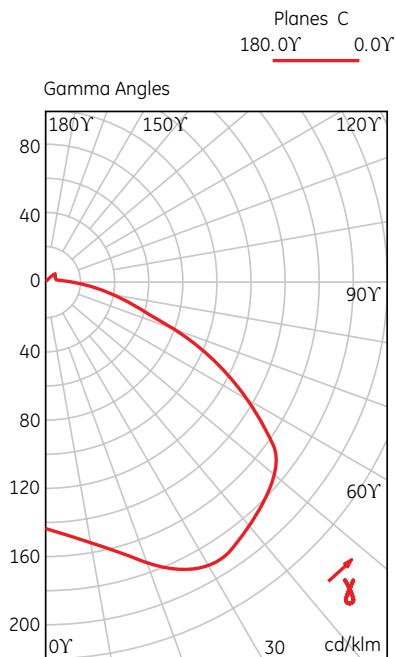


LOW



LOW-250

Photometric data



Gear box

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Standard IP54

Description	Lamp Type	Weight (kg)	Pack qty	Product code
HPS Lamp				
GEAR BOX LOW-250 HPS 150W	LU150/100/40	8.00	1	519673
GEAR BOX LOW-250 HPS 250W	LU250/T/40	8.10	1	519674
GEAR BOX LOW HPS 250W	LU250/T/40	9.00	1	519666
GEAR BOX LOW HPS 400W	LU400/T/40	9.90	1	519667
Metal Halide CMH Lamp				
GEAR BOX LOW-250 CMH 150 T U	CMH150/TT/UVC/830/E40	8.00	1	519676
GEAR BOX LOW-250 MH 150W	CMH150/UVC O/T/U/942/E40	9.00	1	519675
GEAR BOX LOW-250 CMH 250 T U	CMH250/TT/UVC/U/830/E40	8.10	1	519674
GEAR BOX LOW CMH 250 T U	CMH250/TT/UVC/U/830/E40	9.00	1	519669
GEAR BOX LOW CMH 400 T VBU	CMH400/TT/UVC/VBU/830/E40	9.90	1	519671

Without lamp
LOW-250 version supports HPS and MH up to 250W.
LOW version supports HPS and MH up to 400W.

Optical assembly

CEI 34.21 / EN 60598 – Class I – IP54
230V/50Hz

Description	Weight (kg)	Pack qty	Product code
LOW OPTICAL ASSEM (DIFF & REF ASS)	5.4	1	519672
LOW-250 OPTICAL ASSEM (DIFF& REF ASS)	2.1	2	519679

Accessories

Description	Weight (kg)	Pack qty	Product code
Hooks 3/4"			
HOOKM standard	0.13	75	519701
HOOKM IP65	0.14	75	519702
Mounting receptacle A2 - for fittings without ballast housing or with remote ballast housing			
Mounting receptacle A2*	0.27	12	519461
Safety chain			
SFC-0 - for optical componenet, L=0.3 m	TBD	TBD	TBD
SFC3-B - for ballast componenet, L=0.9 m*	TBD	TBD	TBD
Fuse kits			
FK1-IND -with 1 fuse holder	TBD	TBD	TBD
FK2-IND - with 2 fuse holder	TBD	TBD	TBD

*other lengths could be supplied on request



Application

Enclosed luminaires suitable for damp environments, for discharge lamps 250 - 400W (CON-400) or 150 - 250W (CON-250). The exclusive design of the faceted reflector and prismatic refractor reduce glare while providing a high level of visual comfort. Particularly suitable for areas with reduced mounting heights, between 2 and 8 metres.

Technical specification

Ballast compartment

Body in die-cast aluminium, with grey polyester powder paint finish applied electrostatically and cured at 180°C, over an anti-corrosion layer.

Sliding disconnect, guarantees safe and easy electrical and mechanical assembling with the optical. Please request information on the possibility of installation using a 3/4" threaded hub.

Auxiliary aluminium reflector.

E40 or E27 porcelain lamp socket, according to lamp used.

Optical assembly

Aluminium faceted reflector.

UV stabilised acrylic prismatic refractor offering high visual comfort thanks to uniform light distribution over the whole surface.

EPDM gasket between the aluminium reflector and the acrylic refractor (model CON-400 only); in model CON-250 the reflector and refractor are fastened together and joined with a silicone seal.

The optical assembly for model CON-400 can be opened without using tools, thanks to the stainless steel hinge and latches. In model CON-250 the front hinge is replaced by another stainless steel latch.

CON-250 OPTICAL ASSEMBLY supports HPS and Metal Halide up to 250W.

CON-400 OPTICAL ASSEMBLY supports HPS and Metal Halide up to 400W.

Electrical and gear compartment

Magnetic ballast 230V-50Hz

Installation and maintenance

Sliding disconnect, guarantees safe and easy electrical and mechanical assembling with the optical. Please request information on the possibility of installation using a 3/4" threaded hub. The optical assembly for model CON-400 can be opened without using tools, thanks to stainless steel hinges and latches. In model CON-250 the front hinge is replaced by another stainless steel latch.

Notes

The reflector and refractor are connected with a gasket and clampband. Can be supplied already assembled on request.

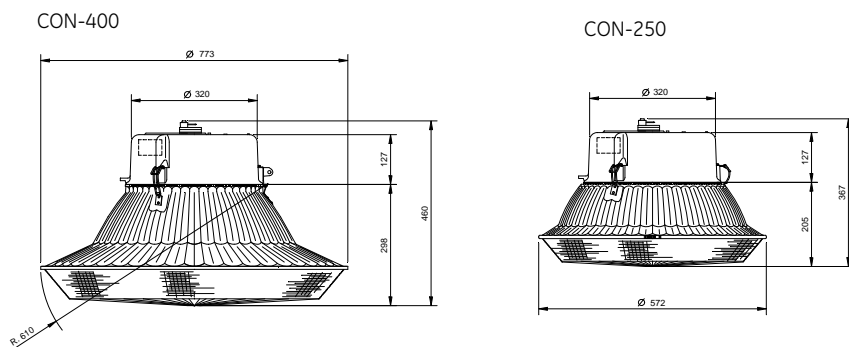
Accessories/Options

Electronic emergency devices, fuses, suspension accessories, etc. They must be ordered separately.

Lamp

Luminaire supplied without lamp.

Dimensions (mm)



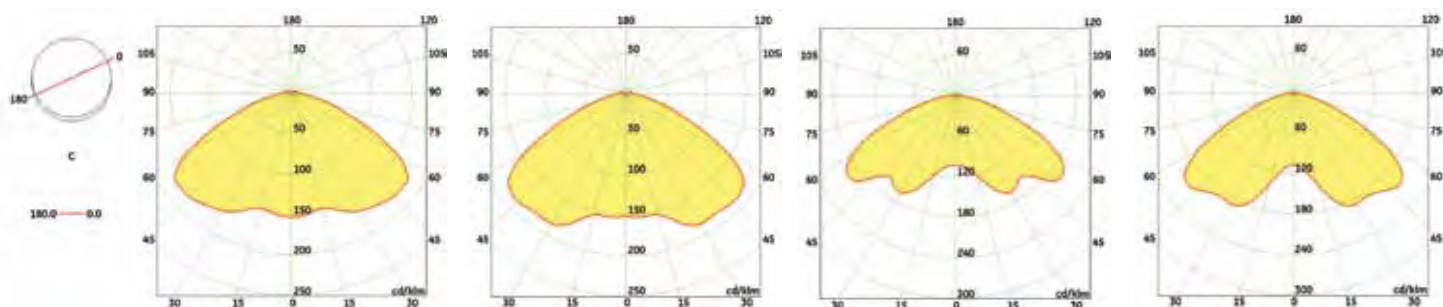
Photometric data

CON-250 Metal Halide 100-250W

CON-250 HPS 70-150W

CON-400 Metal Halide 250-400W

CON-400 HPS 250-400W



Gear box

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Standard IP54

Description	Lamp Type	Weight (kg)	Pack qty	Product code
HPS Lamp				
GEAR BOX CON-250 HPS 150W	LU150/100/40	5.15	1	519687
GEAR BOX CON-250 HPS 250W	LU250/T/40	6.30	1	519688
GEAR BOX CON-400 HPS 250W	LU250/T/40	8.30	1	519680
GEAR BOX CON-400 HPS 400W	LU400/T/40	9.90	1	519681
Metal Halide CMH Lamp				
GEAR BOX CON-250 MH 150W	CMH150/TT/UVC/830/E40	6.00	1	519689
GEAR BOX CON-250 CMH 150W T U	CMH150/TT/UVC/830/E40	5.15	1	519690
GEAR BOX CON-250 CMH 250W T U	CMH250/TT/UVC/U/830/E40	6.25	1	519692
GEAR BOX CON-400 CMH 250W T U	CMH250/TT/UVC/U/830/E40	8.30	1	519683
GEAR BOX CON-400 CMH400W T VBU	CMH400/TT/UVC/VBU/830/E40	10.50	1	519685

Optical assembly

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Standard IP54

Description	Weight (kg)	Pack qty	Product code
CON-250 OPTICAL ASSEM (DIFF& REF ASS)	2.70	2	519902
CON-400 OPTICAL ASSEM (DIFF& REF ASS)	4.10	1	519686

Accessories

Description	Weight (kg)	Pack qty	Product code
Hooks 3/4"			
HOOKM standard *	0.13	75	519701
HOOKM IP65 *	0.14	75	519702
Mounting receptacles			
A1 - For fittings with multipurpose ballast housing and rigid connection			
Mounting receptacle A1	0.23	12	519463
A3 - For non-rigid support, such as the HOOKM bracket			
Mounting receptacle A3	0.23	12	519462
A4 - For overhead fittings with top cable outlet			
Mounting receptacle A4	0.27	12	519464
A5 - For overhead fittings with side cable outlet			
Mounting receptacle A5	0.45	12	519465
Safety chain			
SFC3-B - for ballast component, L=0.9m**	TBD	TBD	TBD

* only when mounting receptacle A3 is used
** other lengths could be supplied on request



Notes

The large optical assemblies can be used with the small ballast housing (AP5) in this case the photometric distribution is very narrow. In the enclosed versions for 600W to 1000W, always use the large optical assembly (UG-22C) and the large ballast housing (AG5). In the opened versions for 600W to 1000W, always use the large ballast housing (AG5).

For electronic emergency devices, fuses, suspension accessories i.e., HOOKM, etc., please see pages 120. They must be ordered separately.

Lamp

Luminaire supplied without lamp.

Application

Luminaire available in an open or enclosed version, for discharge lamps up to 1000W. The enclosed version is also suitable for damp environments. There are two different sizes: UG-17 and UG-22.

Particularly suited for industrial lighting applications with a mounting height of over 5 metres. Use the enclosed versions in particularly dirty atmosphere.

Technical specification

Ballast housing

Available in two sizes: AG5 up to 1000W and AP5 up to 400W. Die-cast aluminium ballast housing, with grey polyester powder paint finish applied electrostatically and cured at 180°C over an anti corrosion layer.

The socket holder, which is joined to the ballast housing, enables photometric distribution to be set in 8 different positions using an ordinary screwdriver. Porcelain E40 or E27 lamp socket, according to the application specific. Easy installation using a 3/4" NPSC threaded hub, located in the housing and resistant to vibration.

AG5 for 1000W/600W discharge lamps.

AP5 for 400W/250W discharge lamps.

Optical assembly

The optical assembly is available in two different sizes UG-17 and UG-22, for which the following maximum lamp wattages can be used:

	HPS	MH
UG-17	1000	400
UG-22	1000	1000

The optical assembly contains the following elements:

- One-piece reflector spun from a thick aluminium disk, with moulded facets inside to prevent reflection of the lamp, reducing glare and increasing the comfort of the user.
- Upper silicon gasket adjusts the connection of reflector and ballast housing (enclosed versions only).
- Tempered glass door (enclosed version only) resistant to thermal and mechanical stress. Fixed in a metal ring with EPDM or silicon gasket according to the lamp wattage, it is fitted with a stainless steel hinge and latches to guarantee easy removal without the need for tools. Optionally, luminaires up to 400W can be supplied with a large ballast housing AG5 suitable for ambient temperature up to 65°C. For higher temperatures please request further information.

UG-17 reflector for gear compartment AP5 400W/250W and AG5 1000W/600W

UG-22 reflector for gear compartment AP5 400W/250W and AG5 1000W/600W

Open optical assembly (option/A) providing IP20, enclosed version (option/C) providing IP54.

Electrical and gear compartment

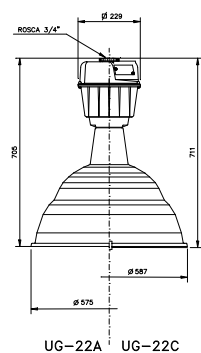
Magnetic Ballast 230V - 50Hz

Installation and maintenance

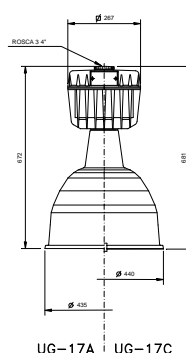
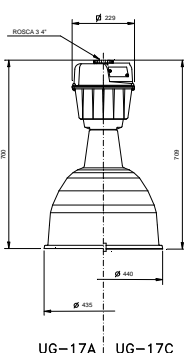
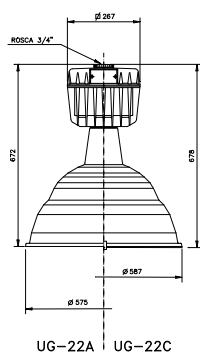
Easy installation using a 3/4" NPSC threaded hub located in the housing and resistant to vibrations.

Dimensions (mm)

UG22



UG17

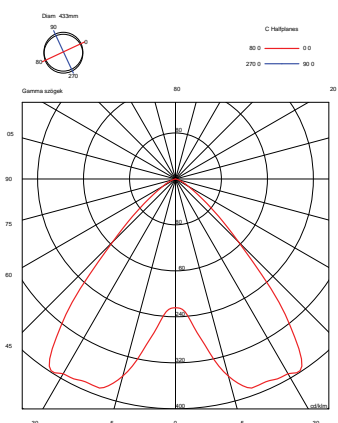


	MVR	HPS	MH
UG-17	AP5/AG5	AP5/AG5	AP5/AG5
UG-22	AP5/AG5	AP5/AG5	AP5/AG5

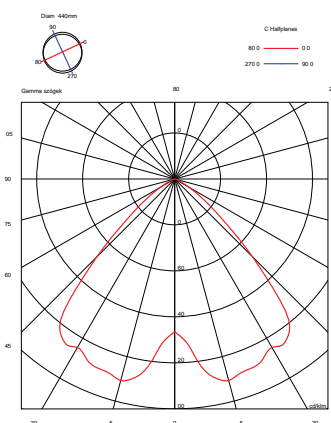
Type	A (mm)	ØB (mm)	C (mm)
UG-17A	700	435	672
UG-17C	709	440	681
UG-22A	705	575	672
UG-22C	711	587	678

Photometric data

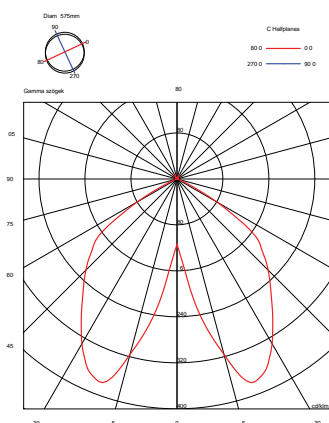
UNIGLOW UG-17A.PA MH 400W



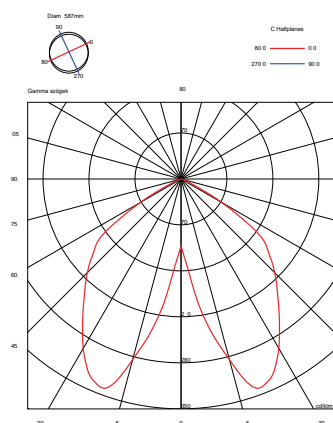
UNIGLOW UG-17C.PA MH 400W



UNIGLOW UG-22A.PA MH 1000W



UNIGLOW UG-22C.PA MH 1000W



Gear box

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Standard IP52

Description	Lamp Type	Weight (kg)	Pack qty	Product code
HPS Lamp				
GEAR BOX UG-VSB AP5 HPS 400W	LU400/T/40	8.55	1	519654
GEAR BOX UG-VSB AG5 HPS 600W	LU600/XO/T/40	12.10	1	519660
GEAR BX UG-VSB AG5 HPS 1000W	LU1000/110/T/40	15.90	1	519661
Metal Halide CMH Lamp				
GEAR BXUG-VSB AP5 CMH250 T U	CMH250/TT/UVC/U/830/E40	8.55	1	519655
GEAR BXUG-VSB AP5 CMH400 T VBU	CMH400/TT/UVC/VBU/830/E40	9.90	1	519657

Optical assembly

CEI 34.21 / EN 60598-1, IEC 60 – 230V 50Hz – Class I
Open (A) – Closed (C)

Description	Weight (kg)	Pack qty	Product code
UG-17A OPTICAL ASSEMBLY	1.32	4	519658
UG-17C OPTICAL ASSEMBLY	4.05	3	519659
UG-22A OPTICAL ASSEMBLY	2.25	6	519663
UG-22C OPTICAL ASSEMBLY	5.20	3	519664

Accessories

Description	Weight (kg)	Pack qty	Product code
Hooks 3/4"			
HOOKM standard	0.13	75	519701
HOOKM IP65	0.14	75	519702
Safety chain			
SFC-0 - for optical component, L=0.3 m	TBD	TBD	TBD
SFC3-B - for ballast component, L=0.9 m*	TBD	TBD	TBD
Fuse kits			
FK1-IND -with 1 fuse holder	TBD	TBD	TBD
FK2-IND - with 2 fuse holder	TBD	TBD	TBD

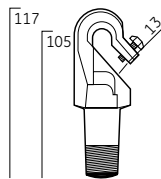
*other lengths could be supplied on request

TYPE	DESCRIPTION	FILTERGLOW	VERSABEAM	LOW MOUNT	CONSERVA	UNIGLOW
HOOKS						
HOOKM	3/4" Hook standard				(1)	
HOOKM IP65	3/4" Hook IP 65				(1)	
MOUNTING RECEPTACLES						
RECEPTACLE A1	Mounting receptacle A1					
RECEPTACLE A2	Mounting receptacle A2	(2)				
RECEPTACLE A3	Mounting receptacle A3					
RECEPTACLE A4	Mounting receptacle A4					
RECEPTACLE A5	Mounting receptacle A5					
SAFETY CHAINS						
SFC-0	Safety Chain for optical component, L=0.3 m					
SFC3-B	Safety Chain for ballast component, L=0.9 m	(3)	(3)	(3)	(3)	(3)
FUSE KIT						
FK1-IND	With one fuse holder					
FK2-IND	With two fuse holders					

(1) Only when mounting receptacle A3 is used
 (2) Only for the installation of optical assemblies
 (3) Other lengths could be supplied on request

HOOKS

HOOKM
 HOOKM IP65



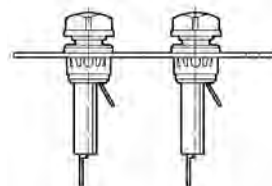
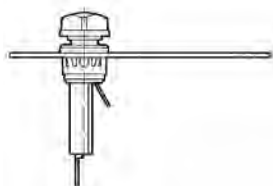
SAFETY CHAINS

For ballast housings, and optical assemblies.



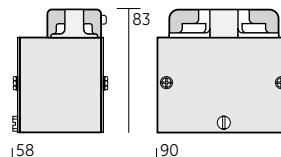
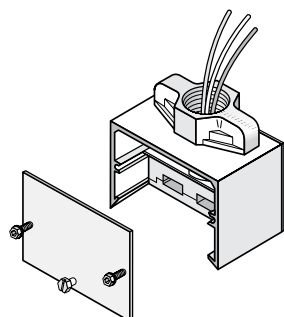
FUSE KITS

Fuses with protection and fixing plate for direct fastening to the ballast housing of luminaire. Available with one or two fuse boxes.

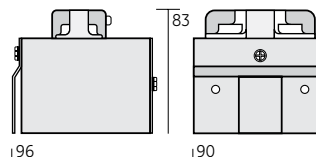
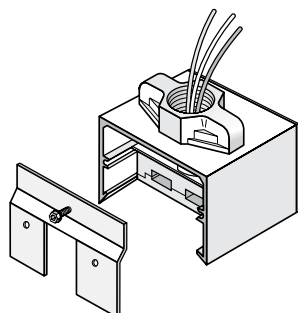


MOUNTING RECEPTACLES

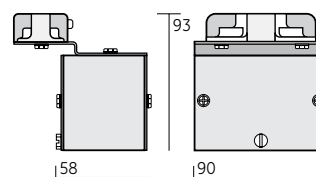
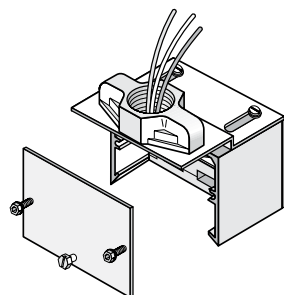
A1
For fittings with multipurpose ballast housing and rigid connection.



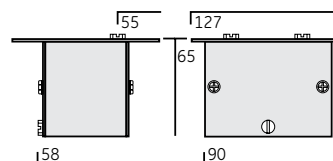
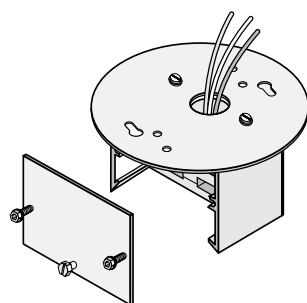
A2
For fittings without ballast housing or with remote ballast housing.



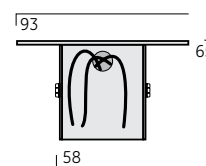
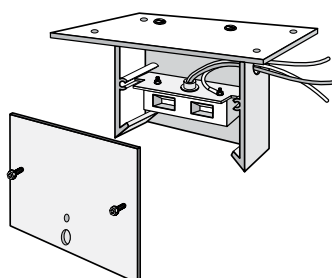
A3
For non-rigid supports, such as the HOOKM bracket.



A4
For overhead fixtures with top cable outlet.



A5
For overhead fixtures with side cable outlet.



MARINER 5



Application

New waterproof, surface mounted fittings created for T5 lamps and electronic ballast.

Slim profile, single and twin lamp versions for installations where effective protection against contamination from water or accidental damage are major considerations for the end-user.

Plus the appealing design makes it suitable for applications in both commercial and residential environments as well as industrial environments.

Technical specification

Body

Impact-resistant, self-extinguishing polycarbonate.
Colour: RAL 7035.

Optics

Reflector: white painted steel.
Diffuser: shockproof safety diffuser in polycarbonate.
Closing latches: high resistant polycarbonate.

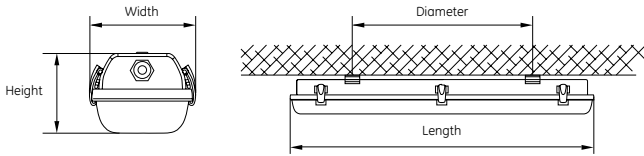
Cable gland

Polypropylene and silicone rubber (cable diameter 7-9 mm).

Power supply

220-240V/50-60Hz warm start electronic ballast.
Wiring connector with 2.5mm² clamp screws.

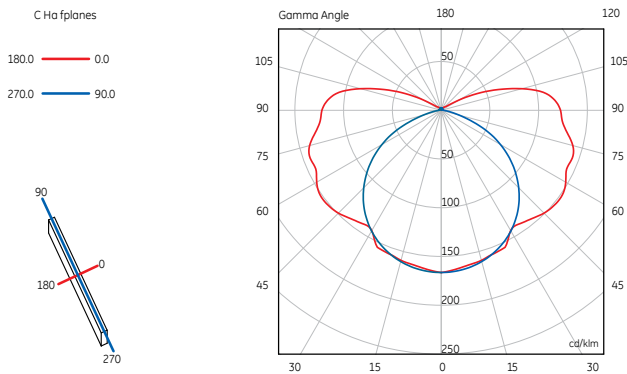
Dimensions



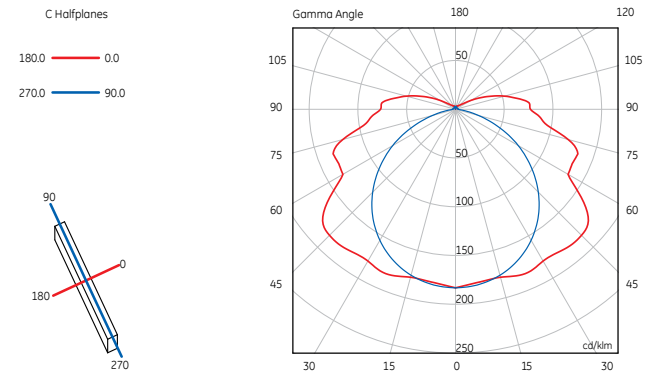
Lamp qty & type	Diameter (mm)	Length (mm)	Height (mm)	Width (mm)
14W				
1xF14 T5	375	610	80	62
2xF14 T5	375	610	80	104
28W				
1xF28 T5	799	1210	80	62
2xF28 T5	799	1210	80	104
35W				
1xF35 T5	960	1510	80	62
2xF35 T5	960	1510	80	104
49W				
1xF49 T5	960	1510	80	62
2xF49 T5	960	1510	80	104
54W				
1xF54 T5	799	1210	80	62
2xF54 T5	799	1210	80	104
80W				
1xF80 T5	960	1510	80	62

Photometric data

1 x 28W



2 x 28W



MARINER 5 for T5 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - 220-240V/50-60Hz - Class I - IP65

Description	Lamp type	Weight (kg)	Pack qty	Product code
14W				
MARINER 5 1x14W EB	1xF14W/T5	0.73	1	76968
MARINER 5 2x14W EB	2xF14W/T5	1.00	1	76969
28W				
MARINER 5 1x28W EB	1xF28W/T5	1.18	1	76970
MARINER 5 2x28W EB	2xF28W/T5	1.70	1	76971
53W				
MARINER 5 1x35W EB	1xF35W/T5	1.38	1	76972
MARINER 5 2x35W EB	2xF35W/T5	2.00	1	76973
49W				
MARINER 5 1x49W EB	1xF49W/T5	1.40	1	76974
MARINER 5 2x49W EB	2xF49W/T5	2.01	1	76975
54W				
MARINER 5 1x54W EB	1xF54W/T5	1.19	1	76976
MARINER 5 2x54W EB	2xF54W/T5	1.70	1	76977
80W				
MARINER 5 1x80W EB	1xF80W/T5	1.45	1	76978

Luminaire supplied without lamp



Application

New compact waterproof IP65 ceiling fittings for T8 fluorescent lamps. Particularly suitable for damp environments, including environments with a high level of dust. Applications: offices, hotels, shopping centres, hospitals, schools.

Technical specification

Body:

Robust polycarbonate (impact resistance over 500 J/m – ASTM D256), grey colour RAL 7035, V2 self-extinguishing; freon-free expanded polyurethane foam seal.

Diffuser

Robust transparent polycarbonate; V2 self-extinguishing. UV-stabilized injection-moulded, prismatic on the inside. Smooth external surface for easy cleaning.

Reflector

Shaped, white, phosphate epoxy polyester powder coated steel sheet. Used to support ballast wire. Hooks to its own mounting if maintenance is required.

Clips

Fibreglass reinforced nylon. Also available in stainless steel.

Power supply

Magnetic ballast: 230V 50Hz with fireproof wires as per CEI 20-22 regulation, 90°C HT thermo-set. HPF ballast with incorporated discharge resistance capacitor, 3 pole connector with fuse, screw terminals for wires up to 2.5mm².

Electronic ballast

Warm start 220-230V 50Hz, 3 pole connector with fuse, screw terminals for wires up to 2.5mm².

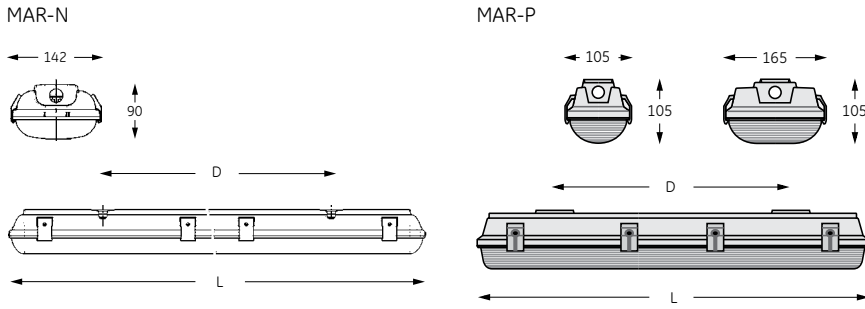
Replacement Accessories

RAPIDKIT for surface mounting of Mariner luminaires on ceiling. The kit contains two clips.

Lamp

MARN T8 without lamp.

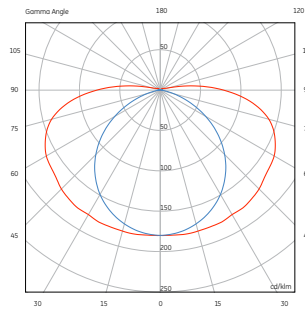
Dimensions (mm)



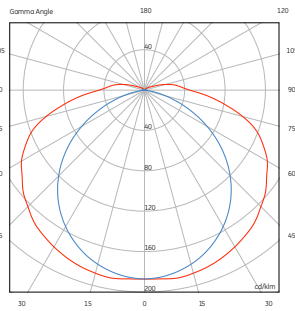
Type	Length L (mm)	Fixing hole D (mm)
MARP 18W		
MARP 1x18	660	390
MARP 2x18	660	390
MARN 36W		
MARN 1x36	1270	900
MARN 2x36	1270	900
MARN 58W		
MARN 1x58	1570	900
MARN 2x58	1570	900

Photometric data

MARINER MAR/N 1x36W



MARINER MAR/N 2x36W



MARN EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
MARP 18W				
MARP 1x18W EB R LL	HPF	1xPolylux XLR F18W	1.58	1 43788
MARP 2x18W EB R LL	HPF	2xPolylux XLR F18W	2.40	1 43789
MARN 36W				
MARN 1x36W EB R LL	HPF - FUS	1xPolylux XLR F36W	1.89	1 43773
MARN 2x36W EB R LL	HPF - FUS	2xPolylux XLR F36W	2.04	1 43775
MARN 58W				
MARN 1x58W EB R LL	HPF - FUS	1xPolylux XLR F58W	2.41	1 43774
MARN 2x58W EB R LL	HPF - FUS	2xPolylux XLR F58W	2.48	1 43776

Fitting supplied without lamp. HPF = with power factor correction
MARN with electronic ballast (EB)

MARN & MARP EES emergency for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T4

Description	Lamp Type	Weight (kg)	Pack qty	Product code
MARP 18W				
MARP 2x18W EB EES LL*	HPF - FUS	2xPolylux XLR F18W	1.59	1 43793
MARN 36W				
MARN 1x36W EB EES R LL	HPF - FUS	1xPolylux XLR F36W	2.75	1 43781
MARN 2x36W EB EES R LL*	HPF - FUS	2xPolylux XLR F36W	3.33	1 43783
MARN 58W				
MARN 1x58W EB EES R LL	HPF - FUS	1xPolylux XLR F58W	3.71	1 43782
MARN 2x58W EB EES R LL*	HPF - FUS	2xPolylux XLR F58W	4.75	1 43784

Fittings supplied without lamp.
With emergency battery. HPF = with power factor correction • FUS = with fuse
*Only one lamp on emergency.

MARN & MARP for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
MARP 18W				
MARP 1x18W H	HPF - FUS	1xPolylux XLR F18W	1.70	1 43800
MARP 2x18W H	HPF - FUS	2xPolylux XLR F18W	2.10	1 43801
MARN 36W				
MARN 1x36W H	HPF - FUS	1xPolylux XLR F36W	2.74	1 43769
MARN 2x36W H	HPF - FUS	2xPolylux XLR F36W	3.34	1 43770
MARN 58W				
MARN 1x58W H	HPF - FUS	1xPolylux XLR F58W	3.08	1 43771
MARN 2x58W H	HPF - FUS	2xPolylux XLR F58W	4.41	1 43772

Fitting supplied without lamp.
HPF = with power factor correction • FUS = with fuse

MARN & MARP EES emergency for T8 fluorescent lamps with magnetic ballast

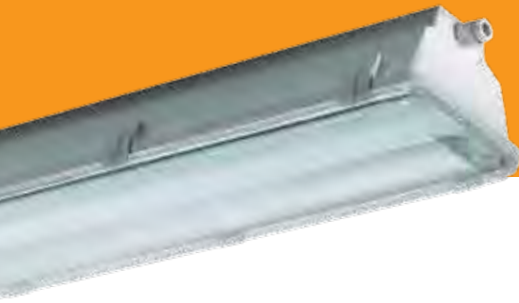
CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T4

Description	Lamp Type	Weight (kg)	Pack qty	Product code
MARP 18W				
MARP 1x18W H EES	HPF - FUS	1xPolylux XLR F18W	1.58	1 43792
MARP 2x18W H EES*	HPF - FUS	2xPolylux XLR F18W	2.40	1 43787
MARN 36W				
MARN 1x36W EES R LL	HPF - FUS	1xPolylux XLR F36W	2.75	1 43777
MARN 2x36W EES R LL*	HPF - FUS	2xPolylux XLR F36W	3.33	1 43779
MARN 58W				
MARN 1x58W EES R LL	HPF - FUS	1xPolylux XLR F58W	3.71	1 43778
MARN 2x58W EES R LL*	HPF - FUS	2xPolylux XLR F58W	4.75	1 43780

Fittings supplied without lamp.
With emergency battery. HPF = with power factor correction • FUS = with fuse
*Only one lamp on emergency.

Accessory

Description	Weight (kg)	Pack qty	Product code
RAPIDKIT BAG 2PCS	0.02	50	44124



Application

Waterproof ceiling fittings for T5 and T8 fluorescent lamps. Proper protection against contamination from water and accidental abuse. Fire and explosion resistant in accordance with CEI 34.21 EN 60598-1, V2 self-extinguishing. Best for humid and/or dusty environments.

Technical specification

Body

Robust Lexan® polycarbonate (impact resistance over 500 J/m – ASTM D 256), colour: grey RAL 7035, V2 self-extinguishing; freon free, expanded polyurethane foam seal. D 21mm cable tray system, PG13.5 tear-proof cable gland for 6-12mm diameter wires and two nylon-reinforced suspension hangers.

Diffuser

Robust transparent Lexan® polycarbonate; V2 self-extinguishing. UV-stabilized, anti-yellowing, injection-moulded, perfectly smooth for best daylight results.

Reflector

High-reflecting, phosphate, white epoxy polyester powder coated steel sheet or (AL) mirror-finished, highly reflective aluminium.

Clips

Interconnected stainless-steel joints.

Installation

- 1 - Surface mounting with supplied gaskets or RAPIDKIT for fast installation
- 2 - Suspension mounting including two suspension hangers (supplied)
- 3 - NAL-NBL channel with NAL 1023 and RAPIDKIT (supplied).

Power supply and electric circuit

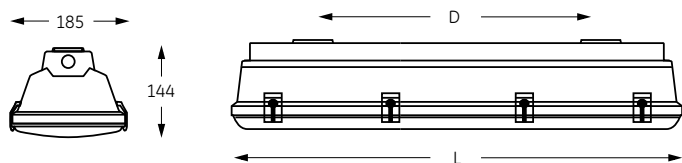
Magnetic ballast: low-loss 230V 50Hz with fireproof wires as per CEI 20-22 regulation, 90°C HT thermo-set. HPF ballast with incorporated discharge resistance capacitor, 3 pole connector with fuse, screw terminals for conductors up to 2.5mm².

Electronic ballast: 220-230V 50-60Hz warm start, 3 pole connector with fuse, screw terminals for conductors up to 2.5mm².

Lamp

MASP T5 complete with T5 LongLast™ lamp, colour temperature 840.
MASP T8 without lamp.

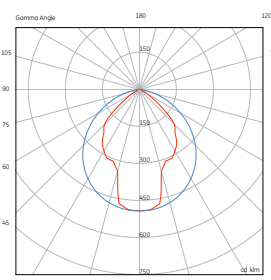
Dimensions (mm)



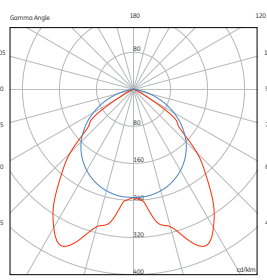
Type	Length L (mm)	Fixing hole D (mm)
MARINER MASP T5		
35W		
MASP 1x35W	1570	1200
MASP 2x35W	1570	1200
49W		
MASP 1x49W	1570	1200
MASP 2x49W	1570	1200
80W		
MASP 1x80W	1570	1200
MASP 2x80W	1570	1200
MARINER MASP T8		
58W		
MASP 1x58W	1570	1200
MASP 2x58W	1570	1200

Photometric data

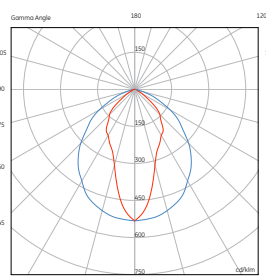
MARINER MASP 1x35W AL



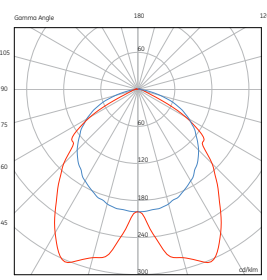
MARINER MASP 2x35W AL



MARINER MASP 1x58W AL



MARINER MASP 2x58W AL



MASP EB for T5 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65 230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
35w				
MASP 1x35W AL T5 EB HPF	1xF35W/T5/840/GE/LongLast	9.00	1	44209
MASP 2x35W AL T5 EB HPF	2xF35W/T5/840/GE/LongLast	9.00	1	44210
49w				
MASP 1x49W AL T5 EB HPF	1xF49W/T5/840/GE/LongLast	9.00	1	44207
MASP 2x49W AL T5 EB HPF	2xF49W/T5/840/GE/LongLast	9.00	1	44208
80w				
MASP 1x80W AL T5 EB HPF	1xF80W/T5/840/GE/LongLast	9.00	1	44204
MASP 2x80W AL T5 EB HPF	2xF80W/T5/840/GE/LongLast	9.00	1	44205

Fittings with electronic ballast complete with T5 LongLast™ 4000K lamp.
HPF = with power factor correction • FUS = with fuse

MASP EES emergency for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 – Class I – IP65 230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MASP 1x58W EES HPF - FUS	1xPolylux XLR F58W	9.00	1	43811
MASP 2x58W EES° HPF - FUS	2xPolylux XLR F58W	9.00	1	43809
MASP 1x58W AL EES HPF - FUS	1xPolylux XLR F58W	9.00	1	43814
MASP 2x58W AL EES* HPF - FUS	2xPolylux XLR F58W	9.00	1	43815

Fittings without lamp.
* Wired for continuous use.
° Only one lamp on emergency.
HPF = with power factor correction • FUS = with fuse

Accessory

Description	Weight (kg)	Pack qty	Product code
RAPIDKIT BAG 2PCS	0.02	50	44124

MASP for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 – Class I – IP65 230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MASP 1x58W H PP HPF-FUS	1xPolylux XLR F58W	9.00	1	43802
MASP 2x58W H PP HPF-FUS	2xPolylux XLR F58W	9.00	1	43803
MASP 1x58W H AL HPF-FUS	1xPolylux XLR F58W	9.00	1	43804
MASP 2x58W H AL HPF-FUS	2xPolylux XLR F58W	9.00	1	43807

Fittings without lamp.
HPF = with power factor correction • FUS = with fuse
AL=highly reflective aluminium

MASP EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65 230V/50Hz Temperature class T6

Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MASP 1x58W EB PP HPF	1xPolylux XLR F58W	9.00	1	43810
MASP 2x58W EB PP HPF	2xPolylux XLR F58W	9.00	1	43808
MASP 1x58W AL EB HPF	1xPolylux XLR F58W	4.90	1	43812
MASP 1x58W AL EB HPF	2xPolylux XLR F58W	9.00	1	43813

Fittings with electronic ballast, without lamp.
HPF = with power factor correction • FUS = with fuse
AL=highly reflective aluminium



Application

Waterproof ceiling fittings for T5 and T8 fluorescent lamps. Proper protection against contamination from water and accidental abuse. Fire and explosion-resistant in accordance with EN 60598-1, V2 self-extinguishing. Particularly suitable for damp environment.

Technical specification

Body

Drawn stainless steel AISI 430 with high mechanical resistance.

Reflector

Steel sheet mirror-finished, highly reflective aluminium (AL). Used to support ballast wire.

Lens

MAX/V: 4mm tempered glass for high chemical/mechanical resistance. Stainless steel frame.

Max/P: robust matt finish Lexan® polycarbonate; V2 self extinguishing. UV stabilized, anti-yellowing, injection-moulded, and perfectly smooth for best downlight results and easy cleaning.

Clips

Interconnected stainless-steel joints.

Installation

The luminaire is supplied with PG 13.5 tear-proof cable gland for 6-12mm diameter wires. RAPIDKIT for surface mounting must be ordered separately. Suspension mounting with supplied hanging hooks.

Surface mounting with RAPIDKIT NAL-NBL channel with RAPIDKIT.

Electrical and gear compartment

Electric circuit with fireproof wires as per CEI 20-22 regulation, 90°C HT thermo-set. HPF magnetic ballast 230V 50Hz with incorporated discharge resistance capacitor, 3 pole connector with fuse, screw terminals for wires up to 2.5mm².

Warm start electronic ballast 220-230V 50-60Hz.

Accessories

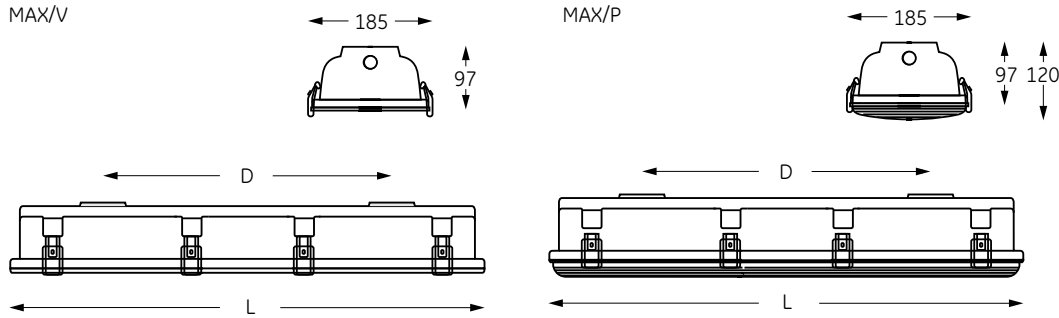
Rapidkit accessories for quick installation of Mariner luminaires on ceiling. The kit contains two clips.

Lamp

MAX T5 complete with T5 LongLast™ lamp colour temperature 840.

MAX T8 without lamp.

Dimensions (mm)



Type	Length L (mm)	Fixing hole D (mm)
MARINER MAX T5		
MAX 135/49/80	1570	1200
MAX 235/49/80	1570	1200
MARINER MAX T8		
MAX 158	1570	1200
MAX 258	1570	1200

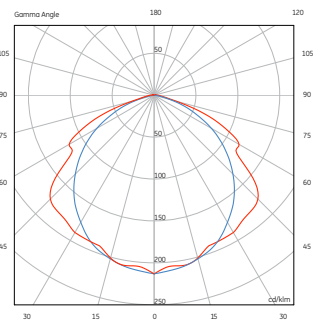
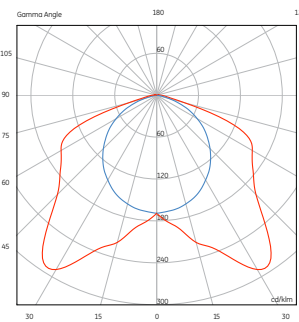
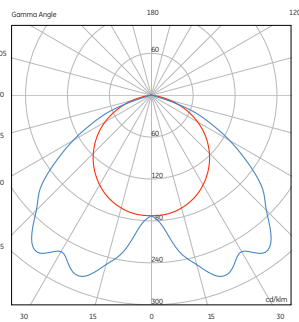
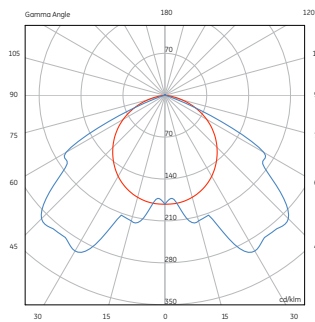
Photometric data

MARINER MAX V T5 1x80W

MARINER MAX V T5 2x80W

MARINER MAX P T8 1x58W

MARINER MAX P T8 2x58W



MAX EB for T5 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - Class I - IP65
230V/50Hz Temperature class T6



Description	Lamp Type	Weight (kg)	Pack qty	Product code
35W				
MAXV 1x35W AL T5 EB CWL HPF	1xF35W/T5/840/GE/LongLast	9.00	1	44201
MAXV 2x35W AL 5 EB CWL HPF	2xF35W/T5/840/GE/LongLast	9.00	1	44202
49w				
MAXV 1x49W AL T5 EB CWL HPF	1xF49W/T5/840/GE/LongLast	9.00	1	44199
MAXV 2x49W AL T5 EB CWL HPF	2xF49W/T5/840/GE/LongLast	9.00	1	44200
80w				
MAXV 1x80W AL T5 EB CWL HPF	1xF80W/T5/840/GE/LongLast	9.00	1	44197
MAXV 2x80W AL T5 EB CWL HPF	2xF80W/T5/840/GE/LongLast	9.00	1	44198

Fittings with electronic ballast complete with T5 LongLast™ 4000K lamp.
• HPF = with power factor correction

MAX EES emergency for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 - Class I - IP65
230V/50Hz Temperature class T6



Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MAXV 1x58W AL H EES LL	HPF - FUS 1xPolylux XLR F58W	9.00	1	43831
MAXV 2x58W AL H EES LL*	HPF - FUS 2xPolylux XLR F58W	9.00	1	43832

Fittings without lamp
* Only one emergency lamp
• HPF = with power factor correction • FUS = with fuse

MAX EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - Class I - IP65
230V/50Hz Temperature class T6



Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MAXV 1x58W AL EB LL HPF	1xPolylux XLR F58W	9.00	1	43827
MAXV 2x58W AL EB LL HPF	2xPolylux XLR F58W	9.00	1	43830
MAXP 1x58W AL EB LL HPF	1xPolylux XLR F58W	9.00	1	43822
MAXP 2x58W AL EB LL HPF	2xPolylux XLR F58W	9.00	1	43823

Fittings with electronic ballast, without lamp.
• HPF = with power factor correction

MAX/V for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 - Class I - IP65
230V/50Hz Temperature class T6



Description	Lamp Type	Weight (kg)	Pack qty	Product code
58W				
MAXV 1x58W AL H LL HPF - FUS	1xPolylux XLR F58W	9.00	1	43824
MAXV 2x58W AL H LL HPF - FUS	2xPolylux XLR F58W	9.00	1	43825
MAXP 1x58W AL H LL HPF - FUS	1xPolylux XLR F58W	9.00	1	43820
MAXP 2x58W AL H LL HPF - FUS	2xPolylux XLR F58W	9.00	1	43821

Fittings without lamp.
• HPF = with power factor correction • FUS = with fuse

Accessory

Description	Weight (kg)	Pack qty	Product code
RAPIDKIT BAG 2PCS	0.02	50	44124



Application

Waterproof ceiling fittings with T8 fluorescent lamps. Particularly suitable for damp environments, including environments with a high level of dust. Complete protection against contamination from water and accidental abuse. Fire and explosion resistant in accordance with CEI 34.21 EN 60598-1. Best for humid and/or dusty environments as well as outdoor use. Protective body in polycarbonate Ø38mm and VT 2 Starter (FS starter for MAC 218). Shipped in individual cartons.

Technical specification

Body

In polycarbonate reinforced, fibreglass.

Lamps Holder

Self-extinguishing polycarbonate for T8 fluorescent lamps. Ring nuts and gaskets included.

Reflectors

- Lamp reflector is to be snapped to the ballast cover. Ring nuts and gaskets included.
- MAC/R: the reflector provides concentrated intense lighting in high-ceiling environments. Good for localized lighting.
- MAC/R AL: mirror-finish reflector attached to fitting by stainless steel springs (included).

Installation

- 1 – Surface mounting with supplied gaskets. RAPIDKIT for fast installation to order separately
- 2 – Suspension mounting with supplied hangers
- 3 – NAL-NBL race way with NAL 1023

Power supply and electric circuit

Electronic ballast (EB) warm start 230-240V/50-60Hz

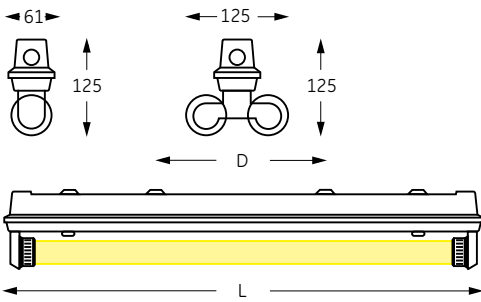
Magnetic ballast 230V/50Hz low-loss. HPF high power factor with protected capacitor.

Accessories/Options

MAC/R: concentrated reflector.

MAC/R AL: mirror-finish reflector.

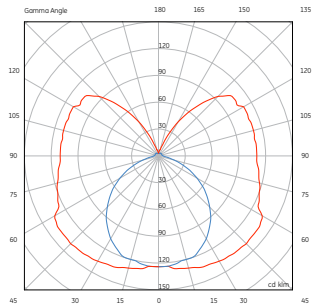
Dimensions (mm)



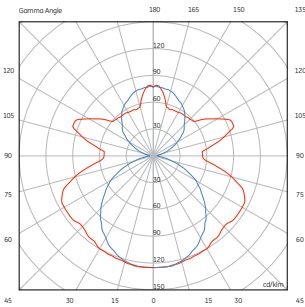
Type	Length L (mm)	Fixing hole D (mm)
18W		
MAC 1x18W	645	500
MAC 2x18W	645	500
36W		
MAC 1x36W	1.265	800
MAC 2x36W	1.265	800
58W		
MAC 1x58W	1.565	1200
MAC 2x58 W	1.565	1200

Photometric data

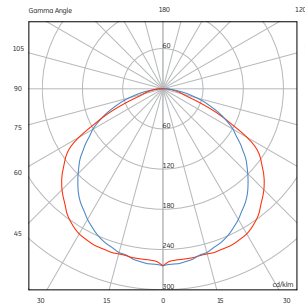
MARINER MAC 1x36W



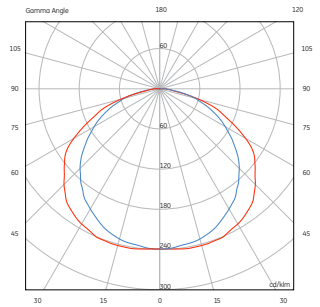
MARINER MAC 2x36W



MARINER 1x36 + MAC R4



MARINER 2x36 + MAC R24



MAC EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T6



Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
MAC 1x18W EB	HPF 1xPolylux XLR F18W	1.50	1	43734
MAC 2x18W EB	HPF 2xPolylux XLR F18W	1.76	1	43744
36W				
MAC 1x36W EB	HPF 1xPolylux XLR F36W	2.26	1	43736
MAC 2x36W EB	HPF 2xPolylux XLR F36W	3.20	1	43746
58W				
MAC 1x58W EB	HPF 1xPolylux XLR F58W	2.90	1	43740
MAC 2x58W EB	HPF 2xPolylux XLR F58W	4.40	1	43749

Fittings with electronic ballast, without lamp.
• HPF = with power factor correction

MAC for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T4



Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
MAC 1x18W H	HPF - FUS 1xPolylux XLR F18W	1.50	1	43735
MAC 2x18W H	HPF - FUS 2xPolylux XLR F18W	1.76	1	43745
36W				
MAC 1x36W H	HPF - FUS 1xPolylux XLR F36W	2.26	1	43738
MAC 2x36W H	HPF - FUS 2xPolylux XLR F36W	3.20	1	43748
58W				
MAC 1x58W H	HPF - FUS 1xPolylux XLR F58W	2.90	1	43742
MAC 2x58W H	HPF - FUS 2xPolylux XLR F58W	4.40	1	43750

Fittings without lamp.
• HPF = with power factor correction • FUS = with fuse

MAC EB EES Emergency for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T4



Description	Lamp Type	Weight (kg)	Pack qty	Product code
MAC 2x36W EB EES	2xPolylux XLR F36W	3.20	1	43747

Accessories/options – MAC/R white reflector

Description	Weight (kg)	Pack qty	Product code
MAC/R 2	0.36	5	44096
MAC/R 4	1.10	5	44112
MAC/R 5	1.91	5	44111
MAC/R 22	0.80	5	44103
MAC/R 24	2.03	5	44113
MAC/R 25	2.45	5	44114

MAC EES Emergency for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 – Class I – IP65
230V/50Hz Temperature class T4



Description	Lamp Type	Weight (kg)	Pack qty	Product code
36W				
MAC 1x36W H EES	1xPolylux XLR F36W	2.26	1	43739
58W				
MAC 1x58W H EES	1xPolylux XLR F58W	2.90	1	43743
MAC 2x58W H EES	2xPolylux XLR F58W	4.40	1	43751

Fittings without lamp.

Accessories/options – MAC/R AL aluminium reflector

Description	Weight (kg)	Pack qty	Product code
MAC/R 2 AL	0.36	5	44097
MAC/R 4 AL	0.70	5	44098
MAC/R 5 AL	0.90	5	44099
MAC/R 22 AL	0.48	5	44100
MAC/R 24 AL	0.90	5	44101
MAC/R 25 AL	1.14	5	44102

N-PACK NPP T5



Application

Lighting fittings for T5 fluorescent lamps for lighting large areas e.g. retail, warehouse. Versatile application range including industry, damp environment, indoor car parks, warehouses, utility service room, workshop, display case lighting, under shelf, pelmets also.

Technical specification

Ceiling or track mounting with rapid mechanical connection NAL 1023 accessory (not included). Easy conduit installation.

Body

Cold-milled, phosphate white epoxy polyester powder coated steel sheet (thickness: 5/10mm for body). Cover is snapped to body.

Lamp holder

Polycarbonate, fixed to body by safety clip. Ring nuts for IP40 and to prevent lamp failure. The "rotor" system allows continuous mounting of light fittings.

Seals

Expanded polyurethane resin between the body and cover plate; rubber between lamp holder and luminaire body.

Control gear and electric circuit

Electronic Ballast (EB) 230-240V/50-60Hz, connector with fuse, screw terminals for conductors up to 2.5mm². Cable entry: using a dedicated hole in body Ø18mm grommet or through knockouts at the end of the fittings.

Benefits of electronic ballast:

1. 22% energy saving
2. No RF or stroboscopic effect
3. Power factor higher than 0.95
4. Instant-Start operation
5. No flickering
6. No cycling (automatic off)
7. Low starting temperature
8. Quiet operation

Installation

Ceiling mounting

Track mounting NAL/NBL SYSTEM with mechanical installation with NAL 1023 (not supplied to be pre-installed in the track).

Accessories/options (for codes see page 137-138)

Reflectors

NPT - Metal Reflector

NPR - Metal Reflector with clip-fit end elements

NPA - Asymmetric Metal Reflector

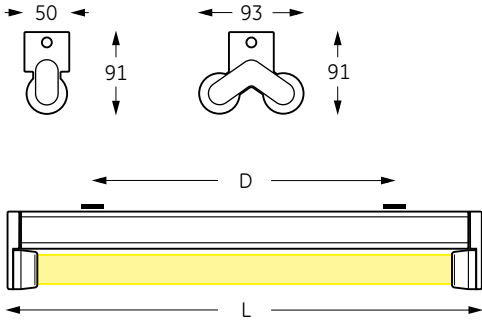
NPLT - Aligner for NPT - NPR - NPA Reflectors

TCGR - End Cap

Lamp

Luminaire supplied without lamp.

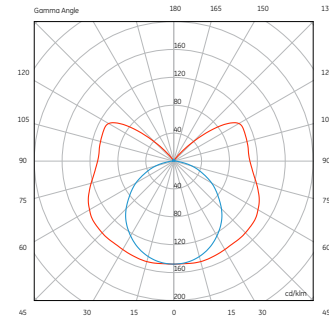
Dimensions (mm)



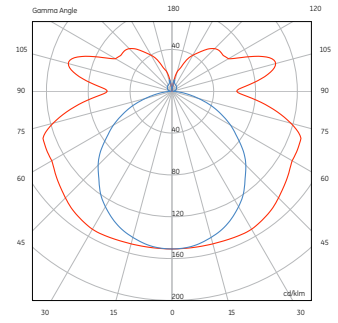
Type	Length (mm)	Mounting Holes (mm)
14W		
NPP 1x14W	573	421
21W		
NPP 1x21W	873	721
NPP 2x21W	873	721
24W		
NPP 1x24W	573	420
28W		
NPP 1x28W	1173	640
NPP 2x28W	1173	640
35W		
NPP 1x35W	1473	870
NPP 2x35W	1473	870
39W		
NPP 1x39W	873	721
NPP 2x39W	873	721
49W		
NPP 1x49W	1473	870
NPP 2x49W	1473	870
54W		
NPP 1x54W	1173	640
NPP 2x54W	1173	640
80W		
NPP 1x80W	1473	870
NPP 2x80W	1473	870

Photometric data

N-PACK NPP T5 1x39W



N-PACK NPP T5 2x39W



NPP for T5 fluorescent lamps with electronic ballast

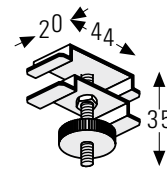
CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

Description	Lamp type	Weight (kg)	Pack qty	Product code
14W				
NPP 1x14W EB T5 LL HPF	1 x F14W/T5	0.6	1	88576
21W				
NPP 1x21W EB T5 LL HPF	1 x F21W/T5	1.0	1	88574
NPP 2x21W EB T5 LL HPF	2 x F21W/T5	1.1	1	88573
24W				
NPP 1x24W EB T5 LL HPF	1 x F24W/T5	0.6	1	88575
28W				
NPP 1x28W EB T5 LL HPF	1 x F28W/T5	1.2	1	88570
NPP 2x28W EB T5 LL HPF	2 x F28W/T5	1.3	1	88569
35W				
NPP 1x35W EB T5 LL HPF	1 x F35W/T5	1.5	1	88566
NPP 2x35W EB T5 LL HPF	2 x F35W/T5	1.6	1	88565
39W				
NPP 1x39W EB T5 LL HPF	1 x F39W/T5	1.0	1	88572
NPP 2x39W EB T5 LL HPF	2 x F39W/T5	1.1	1	88571
49W				
NPP 1x49W EB T5 LL HPF	1 x F49W/T5	1.5	1	88603
NPP 2x49W EB T5 LL HPF	2 x F49W/T5	1.6	1	88564
54W				
NPP 1x54W EB T5 LL HPF	1 x F54W/T5	1.2	1	88568
NPP 2x54W EB T5 LL HPF	2 x F54W/T5	1.3	1	88567
80W				
NPP 1x80W EB T5 LL HPF	1 x F80W/T5	1.5	1	88563
NPP 2x80W EB T5 LL HPF	2 x F80W/T5	1.6	1	88602

Accessory for N-pack trunking installation

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

Type	Description	Weight (kg)	Pack qty	Product code
NAL 1023	Bracket for NAL-NBL system	0.030	100/2	32621





Application

Lighting fittings for T5 fluorescent lamps for lighting large areas e.g. retail, warehouse and versatile application range including industry, damp environment, indoor car parks, warehouses, utility service room, workshop, display case lighting.

Technical specification

Uncovered for NAL-NBL trunking mounting by mechanic and electrical coupling. Electrical coupling is by installing a NAL 1652 connector (not supplied to be pre-installed in the track).

Body

Cold-rolled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 5/10mm for ballast).

Lamp holder

Polycarbonate, fixed to body by safety clip. Ring nuts for IP40. The "rotor" system allows continuous mounting of light fittings.

Electrical and gear compartment

Electronic Ballast (EB) 230-240V / 50-60Hz

Benefits of electronic ballast

1. 22% energy saving
2. No RF or stroboscopic effect
3. Power factor higher than 0.95
4. Instant-Start operation
5. No flickering
6. No cycling (automatic off)
7. Low starting temperature
8. Quiet operation

Installation

Track mounting NAL/NBL system. As well as a fast electronic wiring, there is a fast mechanical installation composed of nut attached to body, a split pin co-axial to the nut and a spring coupling to channel system.

Fast electric wiring: one clamp anchored to ballast for fast electric wiring. NAL 1652 connector (not supplied) to be pre-installed in the track.

Fast mechanic installation: nut attached to body, a split pin co-axial to the nut and a spring coupling to channel system.

Accessories / options (for codes see page 137-138)

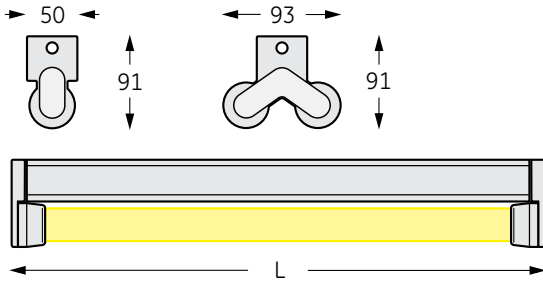
Reflectors

- NPT - Metal Reflector
- NPR - Metal Reflector with clip-fit end elements
- NPA - Asymmetric Metal Reflector
- NPLT - Aligner for NPT - NPR - NPA Reflectors
- TCGR - End Cap

Lamp

Luminaire supplied without lamp.

Dimensions (mm)



QUICK ELECTRICAL CONNECTION



QUICK MECHANICAL CONNECTION



Type	Length (mm)	Mounting Holes (mm)
14W		
NPP 1x14W	573	421
21W		
NPP 1x21W	873	721
NPP 2x21W	873	721
24W		
NPP 1x24W	573	420
28W		
NPP 1x28W	1173	640
NPP 2x28W	1173	640
35W		
NPP 1x35W	1473	870
NPP 2x35W	1473	870
39W		
NPP 1x39W	873	721
NPP 2x39W	873	721
49W		
NPP 1x49W	1473	870
NPP 2x49W	1473	870
54W		
NPP 1x54W	1173	640
NPP 2x54W	1173	640
80W		
NPP 1x80W	1473	870
NPP 2x80W	1473	870

N-PACK NPQ for T5 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

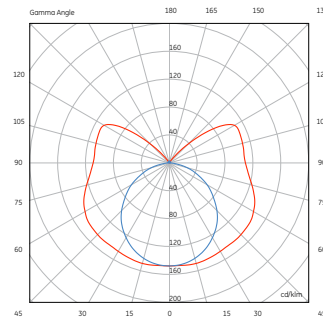


Description	Lamp type	Weight (kg)	Pack qty	Product code
14W				
NPQ 1x14W EB T5 LL	HPF 1xF14W/T5	0.5	1	88591
21W				
NPQ 1x21W EB T5 LL	HPF 1xF21W/T5	0.8	1	88589
NPQ 2x21W EB T5 LL	HPF 2xF21W/T5	0.9	1	88588
24W				
NPQ 1x24W EB T5 LL	HPF 1xF24W/T5	0.5	1	88590
28W				
NPQ 1x28W EB T5 LL	HPF 1xF28W/T5	0.9	1	88585
NPQ 2x28W EB T5 LL	HPF 2xF28W/T5	1.0	1	88584
35W				
NPQ 1x35W EB T5 LL	HPF 1xF35W/T5	1.1	1	88562
NPQ 2x35W EB T5 LL	HPF 2xF35W/T5	1.2	1	88581
39W				
NPQ 1x39W EB T5 LL	HPF 1xF39W/T5	0.8	1	88587
NPQ 2x39W EB T5 LL	HPF 2xF39W/T5	0.9	1	88586
49W				
NPQ 1x49W EB T5 LL	HPF 1xF49W/T5	1.1	1	88580
NPQ 2x49W EB T5 LL	HPF 2xF49W/T5	1.2	1	88579
54W				
NPQ 1x54W EB T5 LL	HPF 1xF54W/T5	0.9	1	88583
NPQ 2x54W EB T5 LL	HPF 2xF54W/T5	1.0	1	88582
80W				
NPQ 1x80W EB T5 LL	HPF 1xF80W/T5	1.1	1	88578
NPQ 2x80W EB T5 LL	HPF 2xF80W/T5	1.2	1	88577

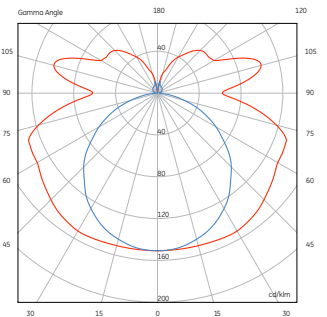
Multiple body - Luminaire supplied without lamp

Photometric data

N-PACK NPQ T5 1x39W



N-PACK NPQ T5 2x39W



N-PACK T5 ACCESSORIES



TRUNKING



NBL - Dim. 26 x 58mm



NAL - Dim. 26 x 58mm

REFLECTOR



NPT - Single and
Twin-lamp luminaires

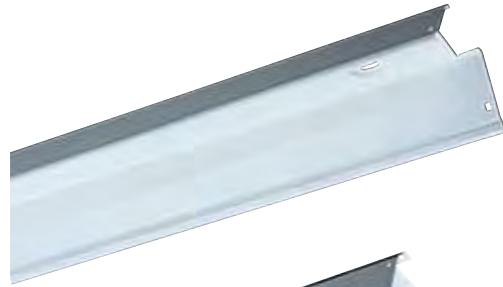


NPR - Single and
Twin-lamp luminaires

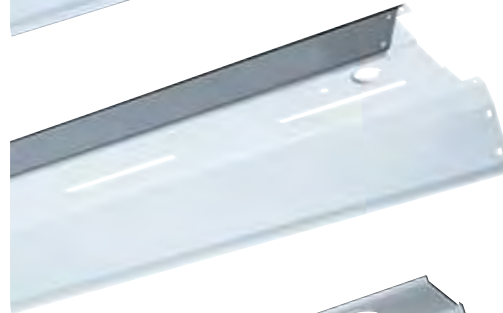


NPGR - louvre for for
NPR 4/5 & NPT 24/25

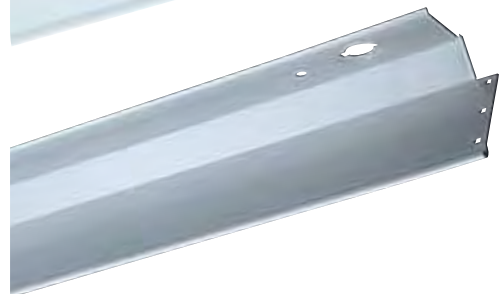
REFLECTOR



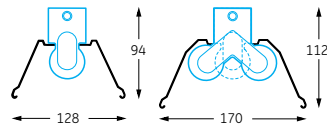
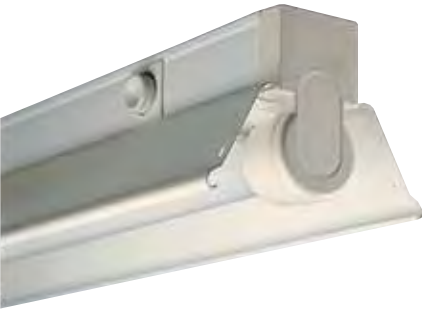
NPT - Single-lamp
luminaires



NPR - Single-lamp
luminaires

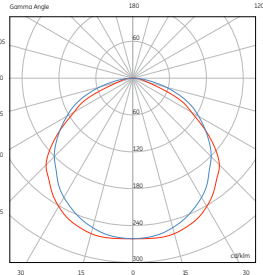
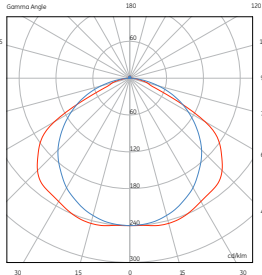


NPA - Assymetric
reflector



N-PACK NPP T5 1x39W+NPT

N-PACK NPP T5 2x39W+NPT



NPT T5 – Metal Reflector

For NPP – NPQ.

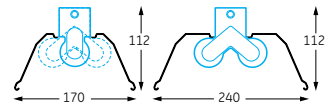
Complete downlight diffusion.

Cold-rolled, phosphate white epoxy polyester powder coated steel (thickness: 0.5mm).

Continuous row mounting possible with NPLT Aligner (see page 138).

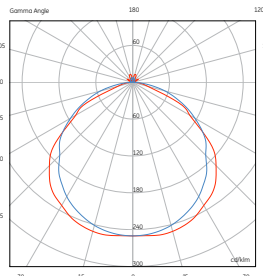
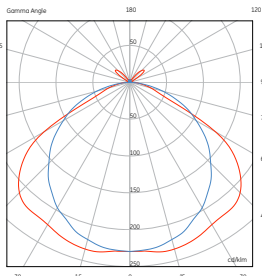
NPT Metal Reflector

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPT	1 x 14W -24W	573	0.40	6	73455
NPT	1 x 21W-39W	873	0.80	6	73456
NPT	1 x 28W-54W	1173	1.00	6	73457
NPT	1 x 35W-49W-80W	1473	1.00	6	73458
NPT	1/2 x 14W-24W	573	0.60	6	73459
NPT	1/2 x 21W-39W	873	1.30	6	73460
NPT	1/2 x 28W-54W	1173	1.60	6	73461
NPT	1/2 x 35W-49W-80W	1473	1.60	6	73462



N-PACK NPP T5 1x39W+NPR

N-PACK NPP T5 2x39W+NPR



NPR T5 – Metal Reflector with clip-fit end elements

For NPP – NPQ.

Dimension and shape allow high performances.

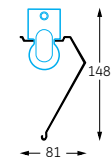
The reflector is designed to avoid “tunnel” effect and eye fatigue caused by impaired lighting (bright light on work bench and low light on the ceiling).

The Reflector is cold-rolled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 0.5mm).

Continuous row mounting possible with NPLT Aligner (see page 138).

NPR Metal Reflector with clip-fit end elements

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPR	1/2 x 14W -24W	573	1.30	6	73463
NPR	1/2 x 21W-39W	873	1.60	6	73464
NPR	1/2 x 28W-54W	1173	1.60	6	73465
NPR	1/2 x 35W-49W-80W	1473	2.00	6	73466



NPA T5 – Asymmetric Metal Reflector

For NPP – NPQ.

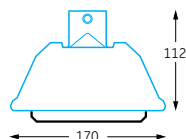
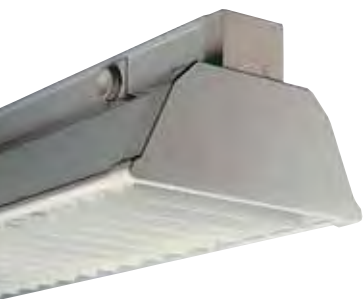
This accessory makes it possible to obtain 100% downward light diffusion. Made of 5/10 gauge sheet steel with a white phosphate epoxy polyester powder coated paint.

The reflector can be installed in continuous rows using the NPLT aligner (see page 138).

NPA – Asymmetric Metal Reflector

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPA	1/2 x 14W -24W	573	0.80	6	73467
NPA	1/2 x 21W-39W	873	1.00	6	73468
NPA	1/2 x 28W-54W	1173	1.00	6	73469
NPA	1/2 x 35W-49W-80W	1473	1.50	6	73470

N-PACK T5 ACCESSORIES



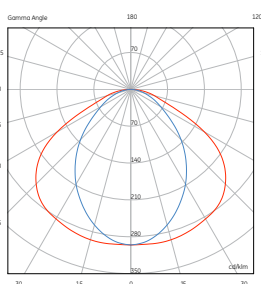
NPGR – Metal Louvre

Can be clipped in NPT twin-lamp and NPR single-lamp, twin-lamp and single-lamp fittings. Closed at both ends by snap devices (supplied). Reflector is cold-milled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 0.5mm). Combination of good shielding and high light output.

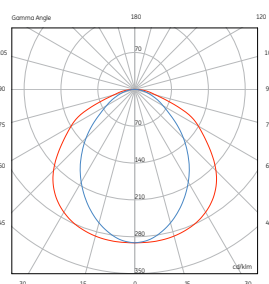
NPGR – Metal Louvre

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPGR	1/2 x 14W -24W	573	0.80	6	73471
NPGR	1/2 x 21W-39W	873	1.00	6	73472
NPGR	1/2 x 28W-54W	1173	1.00	6	73473
NPGR	1/2 x 35W-49W-80W	1473	1.50	6	73474

N-PACK NPP 1x35W+NPT+NPGR



N-PACK NPP 2x49W+NPT+NPGR



TCGR - End Cap

Made of polycarbonate, for NPT twin-lamp and NPR single-lamp reflectors.

TCGR – End Cap

Type	Pack qty	Product code
TCGR	1	32135

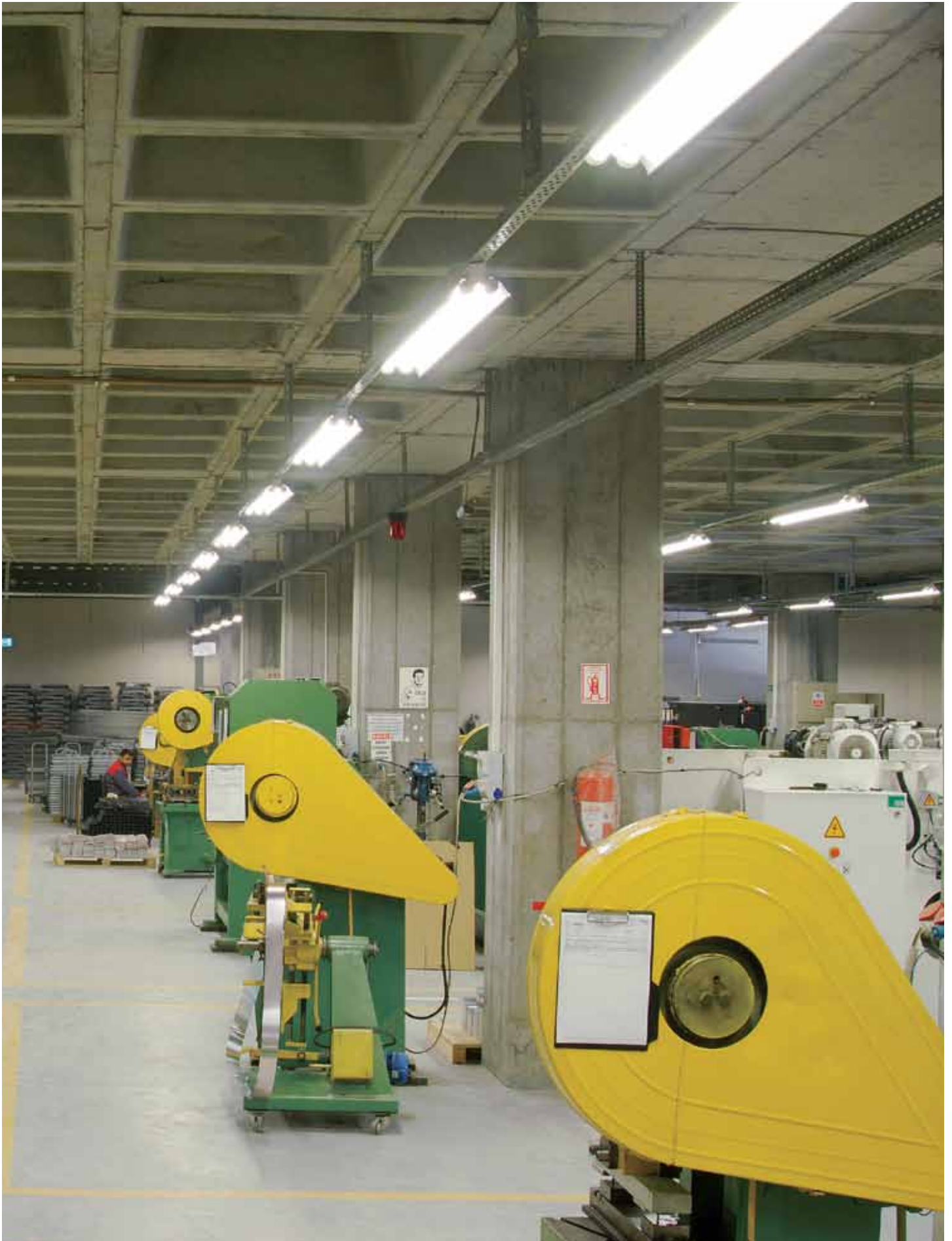


NPLT - Aligner for Reflectors NPT – NPR – NPA

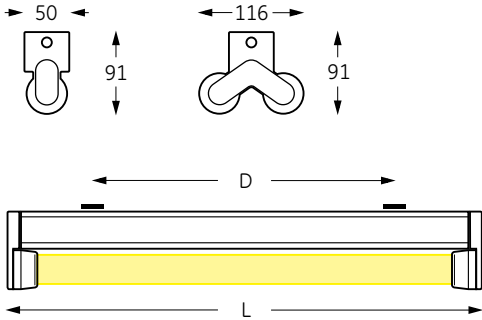
Made of polycarbonate; snaps in.

NPLT

Type	Pack qty	Product code
NPLT	1	45311



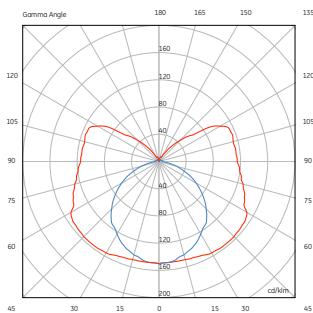
Dimensions (mm)



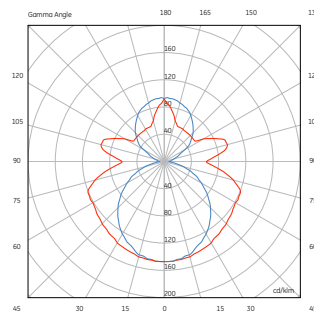
Type	Length (mm)	Mounting Holes (mm)
18W		
NPP 1x18W	620	470
NPP 2x18W	620	470
30W		
NPP 1x30w	925	605
36W		
NPP 1x36W	1230	800
NPP 2x36W	1230	800
58W		
NPP 1x58W	1530	800
NPP 2x58W	1530	800

Photometric data

N-PACK NPP T8 1x36W



N-PACK NPP T8 2x36W



NPP EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
NPP 1x18W EB LL	HPF 1 x F18W/T8	1.33	1	43431
NPP 2x18W EB LL	HPF 2 x F18W /T8	1.53	1	43454
36W				
NPP 1x36W EB LL	HPF 1 x F36W/T8	1.93	1	43444
NPP 2x36W EB LL	HPF 2 x F36W/T8	2.22	1	43458
58W				
NPP 1x58W EB LL	HPF 1 x F58W/T8	2.63	1	43449
NPP 2x58W EB LL	HPF 2 x F58W/T8	3.81	1	43463

Fixtures with electronic ballast; HPF = re-phased
Luminarie supplied without lamp

NPP EES Emergency for T8 fluorescent lamps

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

Description	Lamp Type	Weight (kg)	Pack qty	Product code
NPP EES - Magnetic ballast				
36W				
NPP1x36WV H EES LL	HPF 1 x F36W/T8	3.26	1	43447
58W				
NPP1x58W H EES LL	HPF 1 x F58W/T8	2.63	1	43452
NPP2x58W H EES LL*	HPF 2 x F58W/T8	3.81	1	43466
NPP EB EES - Electronic ballast				
36W				
NPP 1x36W EB EES LL	HPF 1 x F36W/T8	2.10	1	45624
58W				
NPP 2x58W EB EES LL*	HPF 2 x F58W/T8	5.00	1	45625
NPP 1x58W EB EES LL	HPF 1 x F58W/T8	2.60	1	88142

EES - (*only one emergency lamp) - without lamp; HPF = re-phased
Luminarie supplied without lamp

NPP for T8 fluorescent lamps with magnetic ballast

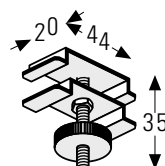
CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP40

Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
NPP 1x18W H LL	HPF 1xF18W/T8	1.30	1	43468
NPP 1x18W L LL	LPF 1xF18W/T8	1.30	1	43469
NPP 2x18W H LL	HPF 2xF18W/T8	1.40	1	43476
NPP 2x18W L LL	LPF 2xF18W/T8	1.40	1	43477
30W				
NPP 1x30W H LL	HPF 1xF30W/T8	1.00	1	43470
NPP 1x30W L LL	LPF 1xF30W/T8	1.60	1	43483
36W				
NPP 1x36W H LL	HPF 1xF36W/T8	2.10	1	43471
NPP 1x36W L LL	LPF 1xF36W/T8	2.10	1	43472
NPP 2x36W H LL	HPF 2xF36W/T8	2.39	1	43459
NPP 2x36W L LL	LPF 2xF36W/T8	2.39	1	43478
58W				
NPP 1x58W H LL	HPF 1xF58W/T8	1.00	1	43473
NPP 1x58W L LL	LPF 1xF58W/T8	2.63	1	43475
NPP 2x58W H LL	HPF 2xF58W/T8	3.00	1	43481
NPP 2x58W L LL	LPF 2xF58W/T8	3.00	1	43482

Multiple body - without lamp; HPF = re-phased • LPF = non rephased
Luminarie supplied without lamp

Accessory for N-pack trunking installation

Type	Description	Weight (kg)	Pack qty	Product code
Pendant for Ø5mm fitting				
NAL 1023	Bracket for Nal-NBL system	0.030	100/2	32621



N-PACK NPQ T8



Accessories/options (for codes see page 146-149)

Reflectors

- NPT – Metal Reflector
- NPR – Metal Reflector with clip-fit end elements
- NPA – Asymmetric Metal Reflector
- NPGR – Metal Louvre
- NPGT – Prismatic-guard for NPQ
- NPGL – Tube-guard for NPQ
- NPS – Metal Guard
- NPS/P – nickel steel brackets anchored to the back of NPP fittings.
- NPLT – Aligner for NPT – NPR – NPA Reflectors
- TCGR – End Cap

Lamp

Luminaire supplied without lamp.

Application

Lighting fittings for T8 fluorescent lamps for lighting large areas e.g. retail, warehouse and versatile application range including industry, damp environment, indoor car parks, warehouses, utility service room, workshop, display case lighting, under shelf, pelmets.

Technical specification

Uncovered for NAL-NBL trunking mounting by mechanic and electrical coupling. Electrical coupling is by installing a NAL 1652 connector (not supplied to be pre-installed in the track).

Body

Cold-rolled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 0.5mm for ballast).

Lamp holder

Polycarbonate, fixed to body by safety clip. Ring nuts for IP40. The "rotor" system allows continuous mounting of light fittings.

Electrical and gear compartment

Electronic Ballast (EB) 230-240V/50-60Hz

Benefits of electronic ballast

1. 22% energy saving
2. No RF or stroboscopic effect
3. Power factor higher than 0.95
4. Instant-Start operation
5. No flickering
6. No cycling (automatic off)
7. Low starting temperature
8. Quiet operation

Magnetic Ballast low - loss 230V/50Hz

Starter

On the side of body; it allows easy maintenance without lamp or accessories removal.

Emergency Electricity Supply models (EES) with magnetic ballast also available.

Installation

Track mounting NAL/NBL System.

As well as a fast electronic wiring, there is a fast mechanical installation composed of nut attached to body, a split pin co-axial to the nut and a spring coupling to channel system.

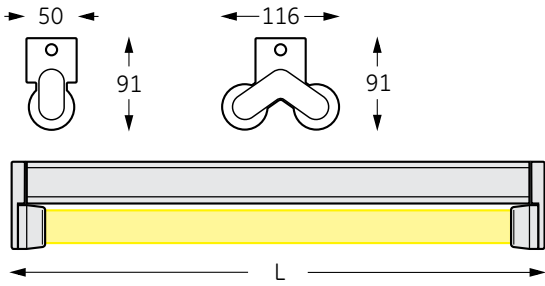
Fast electric wiring

One clamp anchored to ballast for fast electric wiring. NAL 1652 connector (not supplied) to be pre-installed in the track.

Fast mechanic installation

Nut attached to body, a split pin co-axial to the nut and a spring coupling to channel system.

Dimensions (mm)



QUICK ELECTRICAL CONNECTION



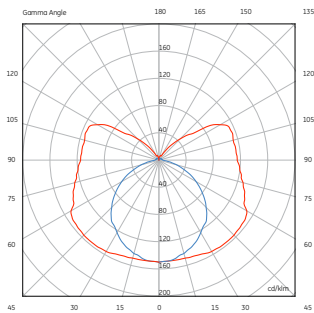
QUICK MECHANICAL CONNECTION



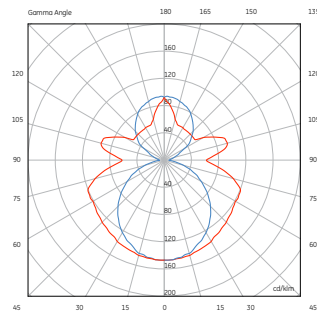
Type	Length (mm)	Mounting Holes (mm)
18W		
NPP 1x18W	620	470
NPP 2x18W	620	470
30W		
NPP 1x30w	925	605
36W		
NPP 1x36W	1230	800
NPP 2x36W	1230	800
58W		
NPP 1x58W	1530	800
NPP 2x58W	1530	800

Photometric data

N-PACK NPQ T8 1x36W



N-PACK NPQ T8 2x36W



N-PACK NPQ EB for T8 fluorescent lamps with electronic ballast

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP54



Description	Lamp Type	Weight (kg)	Pack qty	Product code
36W				
NPQ 1x36W EB LL	HPF 1xF36W/T8	3.26	1	43484
NPQ 2x36W EB LL	HPF 2xF36W/T8	1.00	1	43488
58W				
NPQ 1x58W EB LL	HPF 1xF58W/T8	2.63	1	43486
NPQ 2x58W EB LL	HPF 2xF58W/T8	3.81	1	43489

Fixtures with Electronic Ballast - Luminaire supplied without lamp
HPF = re-phased

N-PACK NPQ EES Emergency for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP54



Description	Lamp Type	Weight (kg)	Pack qty	Product code
36W				
NPQ 1x36W H EES LL	HPF 1xF36W/T8	1.93	1	43485
58W				
NPQ 1x58W H EES LL	HPF 1xF58W/T8	2.63	1	43487
NPQ 2x58W H EES LL*	HPF 2xF58W/T8	3.81	1	43491

EES - (*only one emergency lamp) - Luminaire supplied without lamp
Terminal board socket included (does not require NAL 1652)
HPF = re-phased

N-PACK NPQ for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 - 230V/50Hz - Class I - IP54



Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
NPQ 1x18W H LL	HPF 1xF18W/T8	1.30	4	43492
NPQ 2x18W H LL	HPF 2xF18W/T8	1.40	4	43501
36W				
NPQ 1x36W H LL	HPF 1xF36W/T8	2.10	4	43493
NPQ 2x36W H LL	HPF 2xF36W/T8	2.39	4	43502
58W				
NPQ 1x58W H LL	HPF 1xF58W/T8	2.63	4	43500
NPQ 2x58W H LL	HPF 2xF58W/T8	3.00	4	43503

Multiple body - Luminaire supplied without lamp
HPF = re-phased



Application

Lighting fittings for T8 fluorescent lamps for lighting large areas e.g. retail, warehouse and versatile application range including industry, damp environment, indoor car parks, warehouses, utility service room.

Technical specification

High protection fitting (IP54) for T8 fluorescent lamps. Safety electric installations if mounted with NPGTW polycarbonate sections (use VIT 2 safety fast starter). Ceiling or track mounting (with mechanical installation to track with NAL 1023). Easy conduit installation.

Body and cover

Cold-rolled body and cover, phosphate white epoxy polyester powder coated steel sheet (thickness: 0.5mm for body and 0.6mm for cover). Cover clips on the body by nuts and closing tabs.

Lamp holder

Polycarbonate, fixed to body by safety clip. Flexible plastic ring nuts for long-lasting tension and to prevent lamp failure. The "rotor" system allows continuous mounting of light fittings.

Cable entry into the body through special hole in body with 18mm diameter grommet or knock-out perforations in lamp holder.

Gasket Resin polyurethane foam between body and cover consist of a resin polyurethane foam. Between lamp holder and body there is a rubber gasket.

Electrical and Gear Compartment

Magnetic Ballasts low-loss 230V 50Hz with silicone wires and incorporated protected discharge-resistance capacitor, connector with fuse, screw terminals for conductors up to 2.5mm².

Installation

Ceiling mounting

Track mounting NAL/NBL system with mechanical connection NAL 1023.

Cable entry

using a dedicated hole in body Ø18mm grommet or through knockouts at the end of the fittings.

Accessories/options (for codes see page 146-149)

Reflectors

NPT - Metal Reflector

NPR - Metal Reflector with clip-fit end elements:

NPA - Asymmetric Metal Reflector

NPGR - Metal Louvre

NPGT - Prismatic-guard for NPQ

NPRTL - Tube-guard for NPQ

NPS - Metal Guard

NPS/P - Nickel steel brackets anchored to the back of NPP fittings.

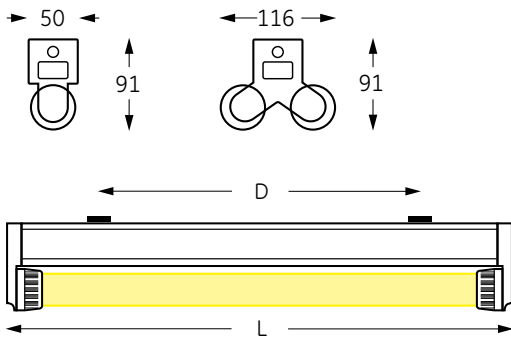
NPLT - Aligner for NPT - NPR - NPA Reflectors

TCGR - End Cap

Lamp

Luminaire supplied without lamp.

Dimensions (mm)



Type	Length (mm)	Mounting Holes (mm)
18W		
NPW 1x18W	620	343
NPW 2x18W	620	343
36W		
NPW 1x36W	1230	950
NPW 2x36W	1230	950
58W		
NPW 1x58W	1530	1250
NPW 2x58W	1530	1250

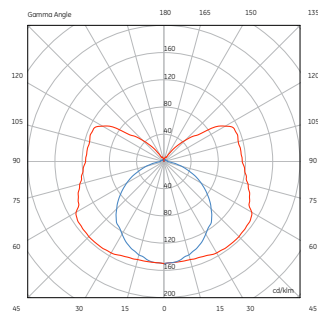
Max. exterior surface temperature of casing

Description	T _{fn} standard operation	Class of temperature*
36W		
NPW 1x36W	70°C	T5
NPW 2x36W	70°C	T5
58W		
NPW 1x58W	90°C	T4
NPW 2x58W	90°C	T4

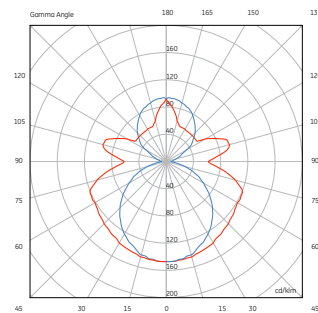
*according to Standard IEC31-8 (in event of failure):
T1 = 450°C, T2 = 300°C, T3 = 200°C, T4 = 135°C, T5 = 100°C, T6 = 85°C

Photometric data


N-PACK NPW T8 1x36W



N-PACK NPW T8 2x36W



N-PACK NPW for T8 fluorescent lamps with magnetic ballast

CEI 34.21 / EN 60598 - Class I - IP54 
230V/50Hz Temperature class T4

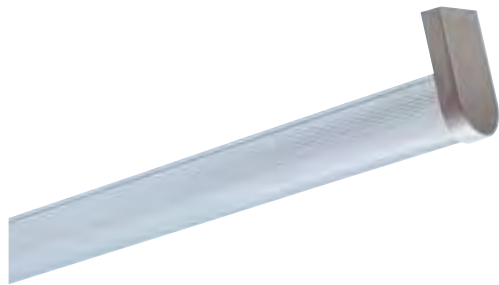
Description	Lamp Type	Weight (kg)	Pack qty	Product code
18W				
NPW 1x18W H LL	HPF 1xF18W/T8	1.30	4	43506
NPW 2x18W H LL	HPF 2xF18W/T8	1.40	4	43520
36W				
NPW 1x36WH LL	HPF 1xF36W/T8	2.10	4	43515
NPW 2x36WH LL	HPF 2xF36W/T8	2.39	4	43522
58W				
NPW 1x58W H LL	HPF 1xF58W/T8	2.63	4	43518
NPW 2x58W H LL	HPF 2xF58W/T8	3.00	4	43524

Multiple body - luminaire supplied without lamp
HPF = re-phased

N-PACK T8 ACCESSORIES



DIFFUSER



NPD Diffuser for single lamp luminaires

POLYCARBONATE OVERTUBE



NPGT prismatic for NPP/NPQ
NPGTL smooth for NPP/NPQ
NPGTW smooth for NPW

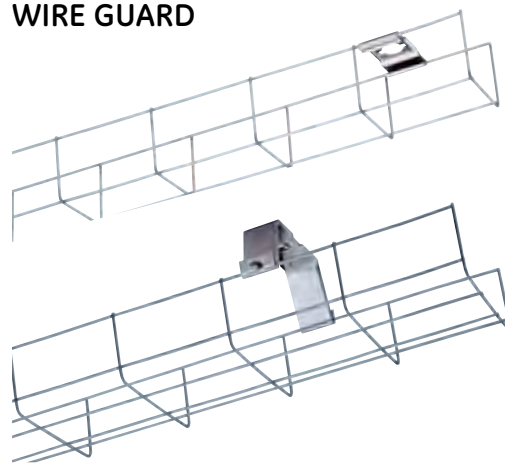
TRUNKING



NBL - Dim. 26 x 58mm

NAL - Dim. 26 x 58mm

WIRE GUARD



NPS/P

NPS/Q

REFLECTOR

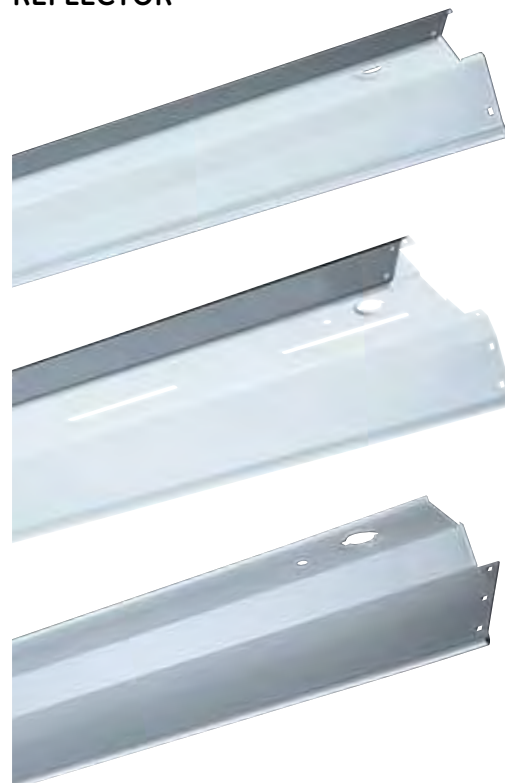


NPT - Single and Twin-lamp luminaires

NPR - Single and Twin-lamp luminaires

NPGR - louvre for for NPR 4/5 & NPT 24/25

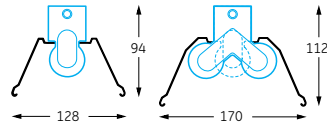
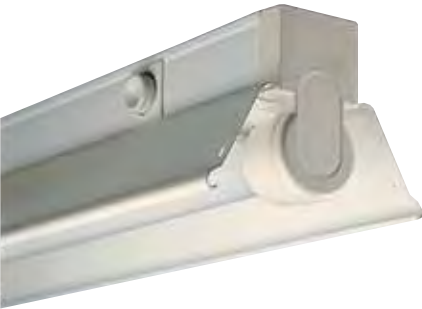
REFLECTOR



NPT - Single-lamp luminaires

NPR - Single-lamp luminaires

NPA - Assymmetric reflector



NPT – Metal Reflector

For NPW – NPP – NPQ.

Complete downlight diffusion.

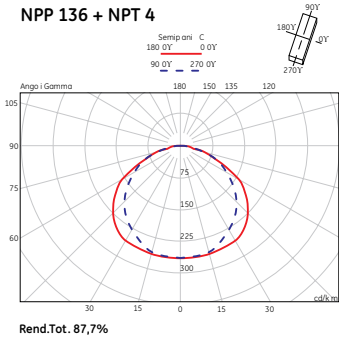
Cold-rolled, phosphate white epoxy polyester powder coated steel (thickness: 5/10mm).

Continuous row mounting possible with NPLT Aligner (see page 149).

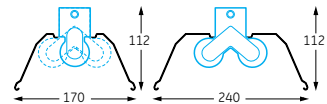
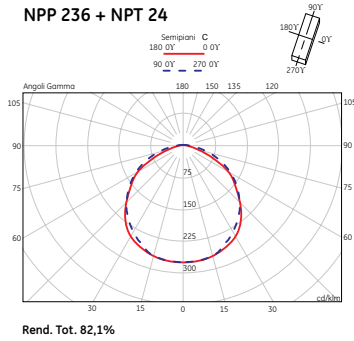
NPT Metal Reflector

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPT2	1 x 18W	620	0.40	6	44042
NPT4	1 x 36W	1230	0.80	6	44082
NPT5	1 x 58W	1530	1.00	6	44086
NPT22	1/2 x 18W	620	0.60	6	44060
NPT24	1/2 x 36W	1230	1.30	6	44083
NPT25	1/2 x 58W	1530	1.60	6	44087

NPP 136 + NPT 4



NPP 236 + NPT 24



NPR – Metal Reflector with clip-fit end elements

For NPW – NPP – NPQ.

Dimension and shape allow high performances.

The reflector is designed to avoid “tunnel” effect and eye fatigue caused by impaired lighting (bright light on work bench and low light on the ceiling).

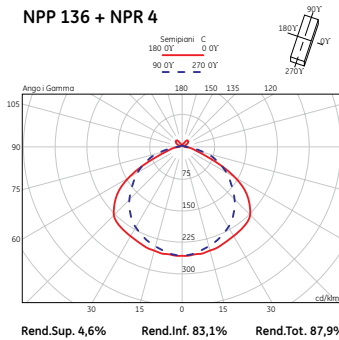
The Reflector is cold-rolled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 5/10mm).

Continuous row mounting possible with NPLT Aligner (see page 149).

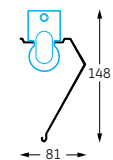
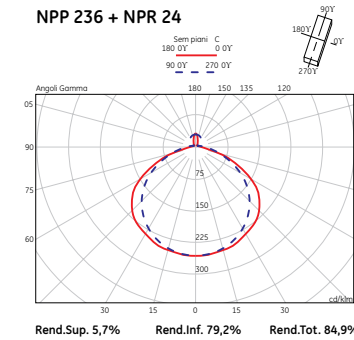
NPR Metal Reflector with clip-fit end elements

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPR4	1/2 x 36W	1230	1.30	6	44080
NPR5	1/2 x 58W	1530	1.60	6	44081
NPR24	2 x 36W	1230	1.60	6	44061
NPR25	2 x 58W	1530	2.00	6	44085

NPP 136 + NPR 4



NPP 236 + NPR 24



NPA – Asymmetric Metal Reflector

For NPW – NPP – NPQ.

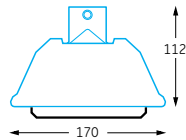
This accessory makes it possible to obtain 100% downward light diffusion. Made of 5/10 gauge sheet steel with a white phosphate epoxy polyester powder coated paint.

The reflector can be installed in continuous rows using the NPLT aligner (see page 149).

NPA

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPA4	1 x 36	1230	0.80	6	44062
NPA5	1 x 58	1530	1.00	6	44063

N-PACK T8 ACCESSORIES



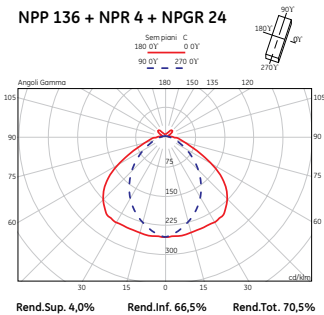
NPGR - Metal Louvre

Can be clipped in NPT twin-lamp and NPR single-lamp, twin-lamp and single-lamp fittings. Closed at both ends by snap devices (supplied). Reflector is cold-milled, phosphate, white epoxy polyester powder coated steel sheet (thickness: 0.5mm). Combination of good shielding and high light output.

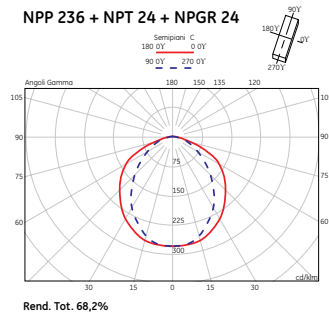
NPGR – Metal Louvre

Type	Luminaire size	Length (mm)	Weight (kg)	Pack qty	Product code
NPGR24	NPR 4 - NPT 24	1235	0.80	6	44088
NPGR25	NPR 5 - NPT 25	1535	1.00	6	44089

NPP 136 + NPR 4 + NPGR 24



NPP 236 + NPT 24 + NPGR 24



NPGL – Prismatic-guard for NPP – NPQ

NPGL – Tube-guard for NPP NPQ

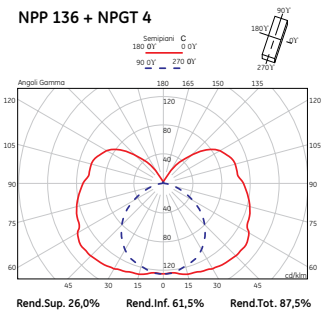
NPGL – Tube-guard for NPW

Made of self-extinguishing, UV-stabilized, anti-yellowing, robust polycarbonate. Best for mounting N-PACK fittings in medium/large industrial plants. Mounting brackets included. Universal starter (FSU) should be replaced by safety fast starter (VIT 2) when using with tube guard.

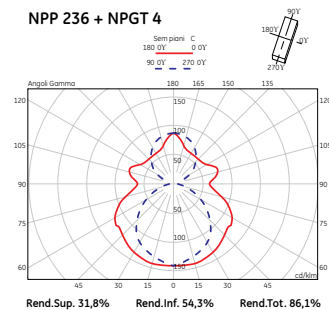
NPGL / NPGL / NPGL

Type	Luminaire Size	Length (mm)	Weight (kg)	Pack qty	Product code
NPGL					
NPGL 2	NPP-NPQ 1/2 x 18W	620	0.13	12/1	32090
NPGL 3	NPP 1 x 30W	925	0.19	12/1	32092
NPGL 4	NPP-NPQ 1/2 x 36W	1230	0.24	12/1	32093
NPGL 5	NPP-NPQ 1/2 x 58W	1530	0.29	12/1	32095
NPGL					
NPGL 2	NPP-NPQ 1/2 x 18W	620	0.13	12/1	38434
NPGL 3	NPP 1 x 30W	925	0.19	12/1	38435
NPGL 4	NPP-NPQ 1/2 x 36W	1230	0.24	12/1	38436
NPGL 5	NPP-NPQ 1/2 x 58W	1530	0.29	12/1	38437
NPGL					
NPGL 2	NPW 1/2 x 18W	620	0.12	12/1	32099
NPGL 4	NPW 1/2 x 36W	1230	0.22	12/1	32101
NPGL 5	NPW 1/2 x 58W	1530	0.27	12/1	32102

NPP 136 + NPGL 4



NPP 236 + NPGL 4

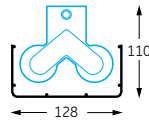
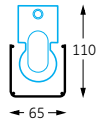


NPS - Metal Guard

Made of arc-welded steel wire with clear zinc-plated finish. Swings open for easy lamp replacement. Two models available:

NPS/P: nickel steel brackets anchored to the back of NPP and NPW fittings.

NPS/Q: nickel steel brackets to be mounted on NPP and NPW fittings by fast threaded nut of anchoring system.



NPS/P - NPS /Q Metal Guard

Type	Luminaire Size	Length (mm)	Weight (kg)	Pack qty	Product code
NPS/P					
NPSP2	NPP-NPW 1x18W	620	0.30	6	44064
NPSP4	NPP-NPW 1x36W	1230	0.40	6	44065
NPSP5	NPP-NPW 1x58W	1530	0.50	6	44066
NPSP22	NPP-NPW 2x18W	620	0.40	6	44067
NPSP24	NPP-NPW 2x36W	1230	0.60	6	44068
NPSP25	NPP-NPW 2x58W	1530	0.70	6	44069
NPS/Q					
NPSQ2	NPP-NPW 1x18W	620	0.30	6	44070
NPSQ4	NPP-NPW 1x36W	1230	0.40	6	44071
NPSQ5	NPP-NPW 1x58W	1530	0.50	6	44084
NPSQ22	NPP-NPW 2x18W	620	0.40	6	44072
NPSQ24	NPP-NPW 2x36W	1230	0.60	6	44073
NPSQ25	NPP-NPW 2x58W	1530	0.70	6	44074

TCGR - End Cap

Made of polycarbonate, for NPT twin-lamp and NPR single-lamp reflectors.



TCGR

Type	Pack qty	Product code
TCGR	1	32135

NPLT - Aligner for NPT - NPR - NPA Reflectors

Made of polycarbonate; snaps in.



NPLT

Type	Pack qty	Product code
NPLT	1	45311

N-PACK NAL TRACK

Surface or suspension channeling systems.

Trunking is cold-rolled, phosphate white epoxy polyester powder coated steel sheet (thickness: 0.8mm).

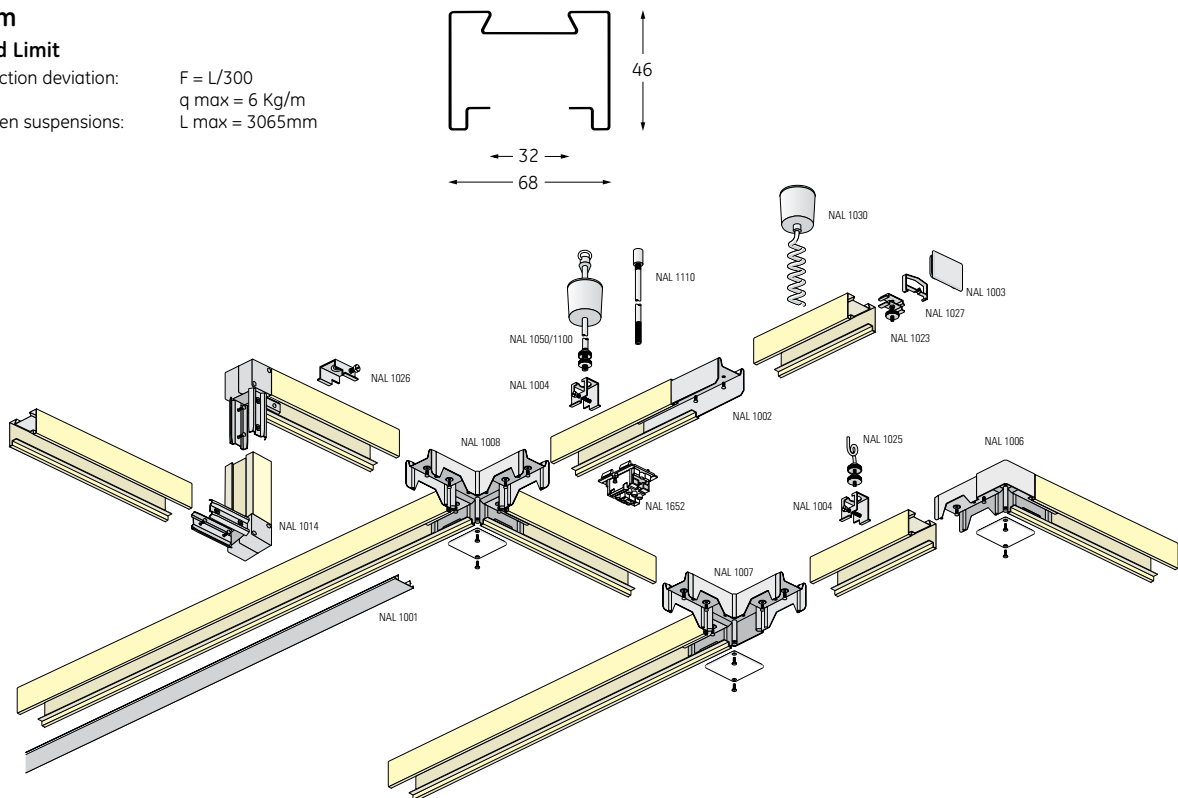
Mounting is made possible by:

- **NAL 1652 Terminal board socket** for quick electrical connection of NPQ- series devices .
- **NAL 1032** support for the suspension of NPP, NPW, MARINER, MAC devices and others with mounting holes of minimum 5mm. We recommend to follow the supplied installation instructions.

NAL system

Working Load Limit

Maximum deflection deviation: $F = L/300$
 Maximum load: $q \text{ max} = 6 \text{ Kg/m}$
 Distance between suspensions: $L \text{ max} = 3065\text{mm}$



NAL Trunking

Type	Weight (kg)	Pack qty	Product code
NAL 1000 1M WH	1.380	4	43999
NAL 2000 2M WH	2.760	4	44009
NAL 3000 3M WH	4.140	4	44010

Die-cast aluminium "X" coupler

Type	Weight (kg)	Pack qty	Product code
NAL 1008 X	0.730	5/1	44002

Linear coupler

Type	Weight (kg)	Pack qty	Product code
NAL 1002	0.455	20/1	44018

Die-cast aluminium connector

Type	Weight (kg)	Pack qty	Product code
NAL 1014 UPDOWN	0.250	5/1	44003

End cap

Type	Weight (kg)	Pack qty	Product code	
NAL 1003	0.020	100/1	45313	

Ceiling mounting

Type	Weight (kg)	Pack qty	Product code	
NAL 1026	0.035	100/1	44019	

Race way mounting by NAL 1025 or Stem

Type	Weight (kg)	Pack qty	Product code	
NAL 1004	0.040	50/1	44273	

Support

Type	Weight (kg)	Pack qty	Product code	
NAL 1027	0.003	100/1	45312	

Die-cast aluminium "L" coupler

Type	Weight (kg)	Pack qty	Product code	
NAL 1006 L	0.450	10/1	44000	

Die-cast aluminium "T" coupler

Type	Weight (kg)	Pack qty	Product code	
NAL 1007 T	0.590	10/4	44001	

White, self-extinguishing, PVC screw

Type	Weight (kg)	Pack qty	Product code	
NAL 1001	0.250	30	32624	

Connector for NPQ fittings

Type	Weight (kg)	Pack qty	Product code	
NAL 1652	0.003	50/1	45316	

Pendant for Ø5mm fitting

Type	Weight (kg)	Pack qty	Product code	
NAL 1023	0.030	100/2	32621	

White Steel Stem

Type	Weight (kg)	Pack qty	Product code	
NAL 1050 TIGE 50CM	0.340	12/1	44016	
NAL 1100 TIGE 1M	0.560	12/1	44020	

Coiled Cord

Type	Weight (kg)	Pack qty	Product code	
NAL 1025	0.065	100/1	32617	

White Steel Extension Stem

Type	Weight (kg)	Pack qty	Product code	
NAL 1110	0.560	20/1	43998	

Power Supply set

Type	Weight (kg)	Pack qty	Product code	
NAL 1030	0.750	5/1	44015	

N-PACK NBL ACCESSORIES

N-PACK NBL TRACK

Surface or suspension channeling systems.

Trunking is cold-rolled, phosphate white epoxy polyester powder coated steel sheet (thickness: 0.8mm).

Mounting is made possible by:

- **NAL 1652 Terminal board socket** for quick electrical connection of NPQ- series devices .
 - **NAL 1032** support for the suspension of NPP, NPW, MARINER, MAC devices and others with mounting holes of minimum 5mm.
- We recommend to follow the supplied installation instructions.

NBL System

Working Load Limit

Maximum deflection deviation:

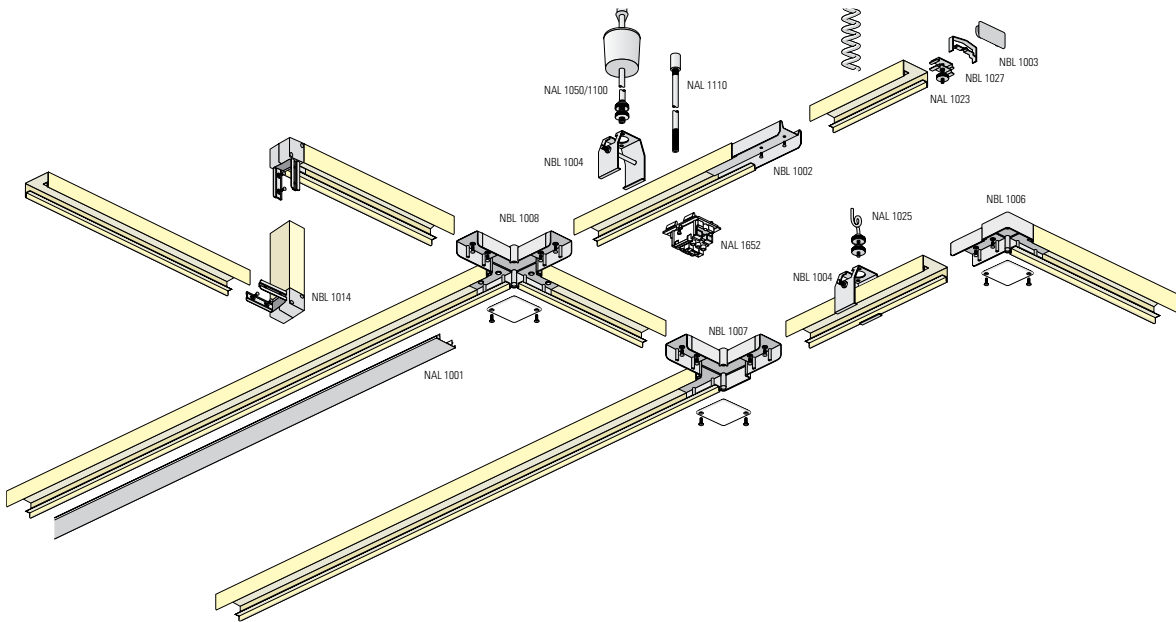
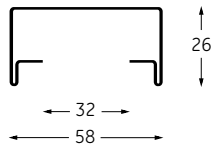
$$F = L/300$$

Maximum load

$$q \text{ max} = 6 \text{ Kg/m}$$

Distance between suspensions:

$$L \text{ max} = 2000\text{mm}$$



NBL Trunking

Type	Weight (kg)	Pack qty	Product code
NBL 1000 1M WH	0.900	4	44004
NBL 2000 2M WH	1.800	4	44011
NBL 3000 3,065 M WH	2.700	4	44014

Die-cast aluminium "T" coupler

Type	Weight (kg)	Pack qty	Product code
NBL 1007	0.480	10/1	44006

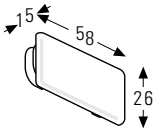
Linear coupler

Type	Weight (kg)	Pack qty	Product code
NBL 1002	0.235	24/1	44017

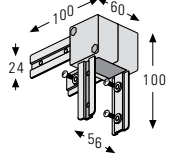
Die-cast aluminium "X" coupler

Type	Weight (kg)	Pack qty	Product code
NBL 1008 X	0.480	10/1	44007

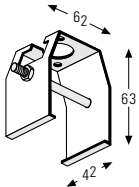
End cap

Type	Weight (kg)	Pack qty	Product code	
NBL 1003	0.012	100/1	45314	

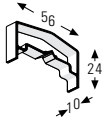
Die-cast aluminium connector

Type	Weight (kg)	Pack qty	Product code	
NBL 1014 UPDOWN	0.140	5/1	44008	

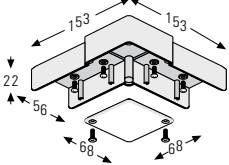
Race way mounting by NAL 1025 or Stem

Type	Weight (kg)	Pack qty	Product code	
NBL 1004	0.080	20/1	44021	

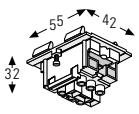
Support

Type	Weight (kg)	Pack qty	Product code	
NBL 1027	0.002	100/1	45315	

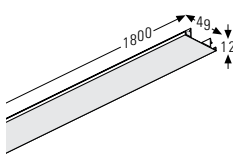
Die-cast aluminium "L" coupler

Type	Weight (kg)	Pack qty	Product code	
NBL 1006	0.350	10/1	44005	

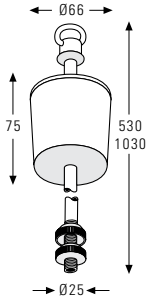
Connector for NPQ fittings

Type	Weight (kg)	Pack qty	Product code	
NAL 1652	0.003	50/1	45316	

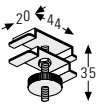
White, self-extinguishing, PVC screw

Type	Weight (kg)	Pack qty	Product code	
NAL 1001	0.250	30	32624	

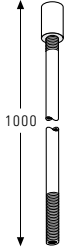
White Steel Stem

Type	Weight (kg)	Pack qty	Product code	
NAL 1050 TIGE 50CM	0.340	12/1	44016	
NAL 1100 TIGE 1M	0.560	12/1	44020	

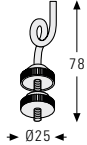
Pendant for Ø5mm fitting

Type	Weight (kg)	Pack qty	Product code	
NAL 1023	0.030	100/2	32621	

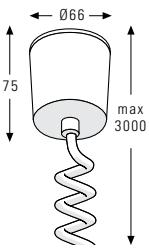
White Steel Extension Stem

Type	Weight (kg)	Pack qty	Product code	
NAL 1110	0.560	20/1	43998	

Coiled Cord

Type	Weight (kg)	Pack qty	Product code	
NAL 1025	0.065	100/1	32617	

Power Supply set

Type	Weight (kg)	Pack qty	Product code	
NAL 1030	0.750	5/1	44015	

TOP/DBX PREMIUM



Applications

TOP/DBX PREMIUM compliments its surroundings thanks to the fixture's distinctive aesthetic design. The reflector design delivers an excellent light distribution and delivers a high efficiency level. It has also been certified with the highest approval marks, protection and insulation indexes. Thanks to its impressive light output ratio, a full range of accessories and the aesthetic appeal of the luminaire's design, the TOP/DBX PREMIUM range is an ideal lighting tool for multiple applications including retail, offices, corridors, shopping centers and conference rooms.

Technical specification

TOP/DBX PREMIUM PC

Body

Impact-resistant, self-extinguishing polycarbonate.

Optics

Reflector: metallized polycarbonate.

Diffuser: shockproof safety diffuser in polycarbonate.

Retaining ring: polycarbonate.

Louvre: metallized polycarbonate (accessory).

Power Supply

230-240V/50-60Hz electronic ballast.

Wiring connector with 2,5mm² clamp screws.

TOP/DBX PREMIUM ALU

Body

Impact-resistant, self-extinguishing polycarbonate.

Optics

Reflector: metallized polycarbonate.

Diffuser: tempered and silk screened safety glass.

Retaining ring: aluminium die-cast.

Power Supply

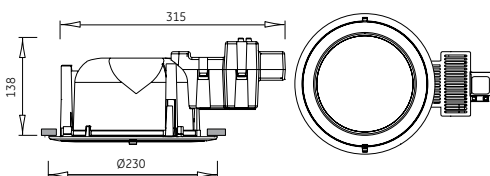
230-240V/50-60Hz electronic ballast.

Wiring connector with 2.5mm² clamp screws.

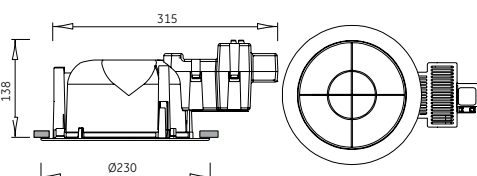
Complete with lamps colour 835.

Dimensions (mm)

TOP/DBX PREMIUM ALU (aluminium ring)



TOP/DBX PREMIUM PC (polycarbonate ring)



TOP/DBX PREMIUM PC

with suspended decorative glass accessory



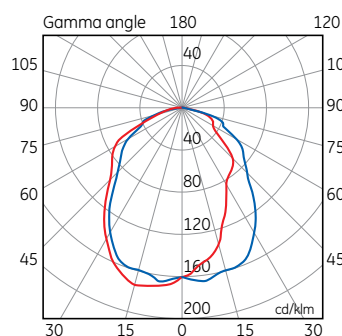
TOP/DBX PREMIUM PC

with square frame accessory

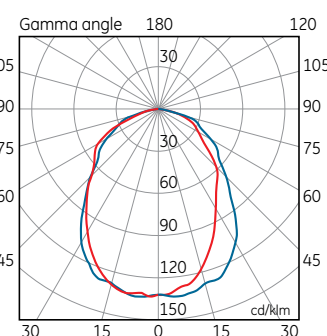


Photometric data

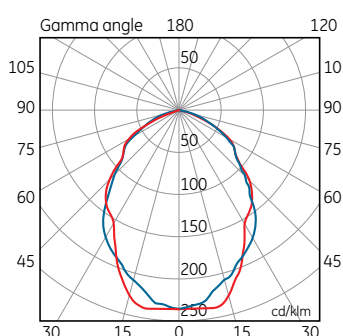
TOP/DBX PREMIUM 2x18



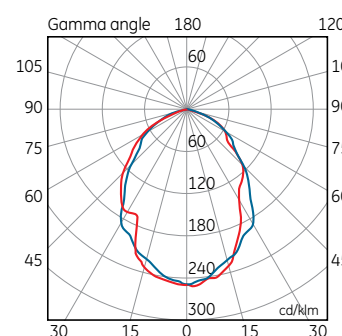
TOP/DBX PREMIUM 2x26



TOP/DBX PREMIUM PC with louvre 2x18



TOP/DBX PREMIUM PC with louvre 2x26



TOP/DBX PREMIUM PC WHITE

CEI 34.21 / EN 60598-1, IEC 60598 – 230-240V/50-60Hz – Class II – IP20					
Watt (W)	Description	Lamp qty & type	Weight (kg)	Pack qty	Product code

with electronic ballast - ENEC 03

13W	TOP/DBX PR PC 1x13W	1 x F13DBX/835/4Pin	0.61	1	77556
13W	TOP/DBX PR PC 2x13W	2 x F13DBX/835/4Pin	0.79	1	77559
18W	TOP/DBX PR PC 1x18W	1 x F18DBX/835/4Pin	0.63	1	77557
18W	TOP/DBX PR PC 2x18W	2 x F18DBX/835/4Pin	0.82	1	77560
26W	TOP/DBX PR PC 1x26W	1 x F26DBX/835/4Pin	0.64	1	77558
26W	TOP/DBX PR PC 2x26W	2 x F26DBX/835/4Pin	0.84	1	77561

with dimmable electronic ballast

18W	TOP/DBX PR PC 2x18W Dimm	2 x F18DBX/835/4Pin	0.99	1	77562
26W	TOP/DBX PR PC 2x26W Dimm	2 x F26DBX/835/4Pin	1.01	1	77563

with emergency electronic ballast - emergency 1 hour battery

18W	TOP/DBX PR PC 2x18W EES	2 x F18DBX/835/4Pin	1.78	1	77564
26W	TOP/DBX PR PC 2x26W EES	2 x F26DBX/835/4Pin	1.80	1	77565

Luminaire complete with lamp Biax™ D/E, colour 3500K

TOP/DBX PREMIUM PC Accessories

Description	Weight (kg)	Pack qty	Product code
Comfort louvre	0.05	4	77566
Polycarbonate diffuser IP44	0.16	4	77568
Polycarbonate silver ring	0.15	4	77570
Square frame, white	0.45	1	77572
Oval frame, white	0.31	1	77585

TOP/DBX PREMIUM ALU WHITE

CEI 34.21 / EN 60598-1, IEC 60598 – 230-240V/50-60Hz – Class II – IP44					
Watt (W)	Description	Lamp qty & type	Weight (kg)	Pack qty	Product code

with electronic ballast - ENEC 03

13W	TOP/DBX PR AL 1x13W	1 x F13DBX/835/4Pin	1.12	1	77586
13W	TOP/DBX PR AL 2x13W	2 x F13DBX/835/4Pin	1.37	1	77605
18W	TOP/DBX PR AL 1x18W	1 x F18DBX/835/4Pin	1.13	1	77587
18W	TOP/DBX PR AL 2x18W	2 x F18DBX/835/4Pin	1.40	1	77620
26W	TOP/DBX PR AL 1x26W	1 x F26DBX/835/4Pin	1.14	1	77588
26W	TOP/DBX PR AL 2x26W	2 x F26DBX/835/4Pin	1.42	1	77607

with dimmable electronic ballast

18W	TOP/DBX PR AL 2x18W Dimm	2 x F18DBX/835/4Pin	1.57	1	77608
26W	TOP/DBX PR AL 2x26W Dimm	2 x F26DBX/835/4Pin	1.59	1	77609

with emergency electronic ballast - emergency 1 hour battery

18W	TOP/DBX PR AL 2x18W EES	2 x F18DBX/835/4Pin	2.39	1	77610
26W	TOP/DBX PR AL 2x26W EES	2 x F26DBX/835/4Pin	2.41	1	77612

Luminaire complete with lamp Biax™ D/E, colour 3500K

TOP/DBX PREMIUM ALU WHITE Accessories

Description	Weight (kg)	Pack qty	Product code
Suspended decorative glass	0.47	1	77626

TOP/DBX PREMIUM ALU SILVER

Watt (W)	Description	Lamp qty & type	Weight (kg)	Pack qty	Product code
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with electronic ballast - ENEC 03

13W	TOP/DBX PR AL 1x13W	1 x F13DBX/835/4Pin	1.12	1	77615
13W	TOP/DBX PR AL 2x13W	2 x F13DBX/835/4Pin	1.37	1	77618
18W	TOP/DBX PR AL 1x18W	1 x F18DBX/835/4Pin	1.13	1	77616
18W	TOP/DBX PR AL 2x18W	2 x F18DBX/835/4Pin	1.40	1	77619
26W	TOP/DBX PR AL 1x26W	1 x F26DBX/835/4Pin	1.14	1	77617
26W	TOP/DBX PR AL 2x26W	2 x F26DBX/835/4Pin	1.42	1	77621

with dimmable electronic ballast

18W	TOP/DBX PR AL 2x18W Dimm	2 x F18DBX/835/4Pin	1.57	1	77622
26W	TOP/DBX PR AL 2x26W Dimm	2 x F26DBX/835/4Pin	1.59	1	77623

with emergency electronic ballast - emergency 1 hour battery

18W	TOP/DBX PR AL 2x18W EES	2 x F18DBX/835/4Pin	2.39	1	77624
26W	TOP/DBX PR AL 2x26W EES	2 x F26DBX/835/4Pin	2.41	1	77625

Luminaire complete with lamp Biax™ D/E, colour 835

TOP/DBX PREMIUM ALU SILVER Accessories

Description	Weight (kg)	Pack qty	Product code
Suspended decorative glass	0.47	1	77627



PRISMATIC
DIFFUSER

IP40

1.44-2.58 KG



Applications

Ideal for office rooms, public authority buildings, shops, industrial areas with low dust level.

Technical specification

Surface or suspension mounting fittings with prismatic or satin lens for best light diffusion. High protection against external contamination and protection against accidental handling of electrical components. Surface or suspension mounting.

Body

Powder coated steel sheet.

Optics

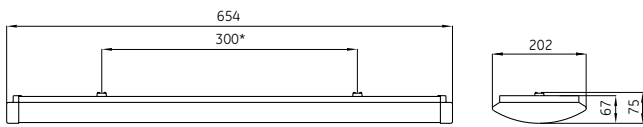
Diffuser: polymethyle metacrylate, prismatic or opal.
End caps: white polycarbonate.

Electrical and gear compartment

Electronic ballast - 2x18W, 2x36W
220-240V / 50-60Hz electronic ballast.
Wiring connector with 2.5mm² clamp screws.

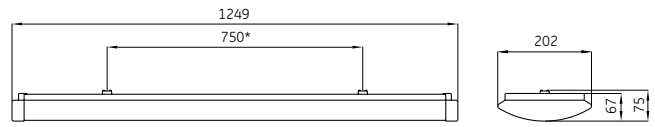
Dimensions

2x18W



* distance for fixing hole

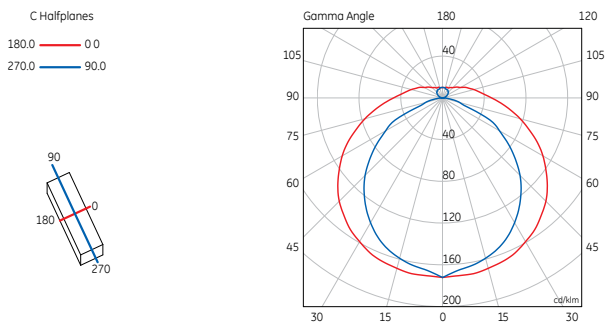
2x36W



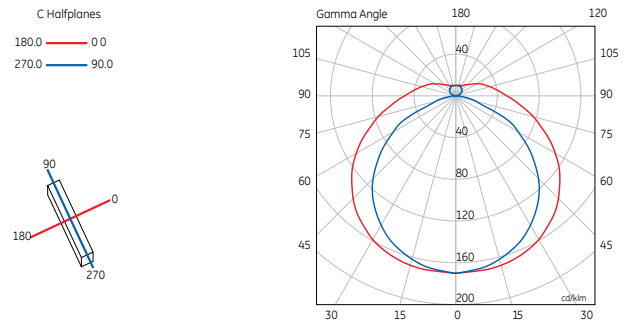
* distance for fixing hole

Photometric data

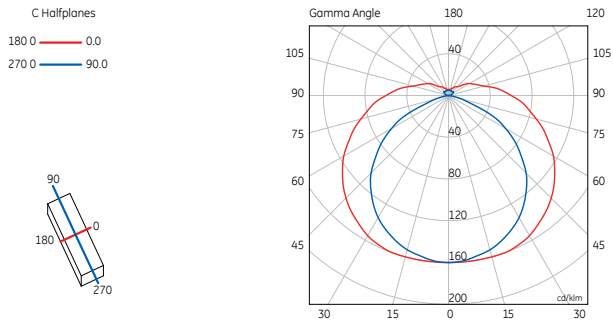
Opal diffuser – 2x18W



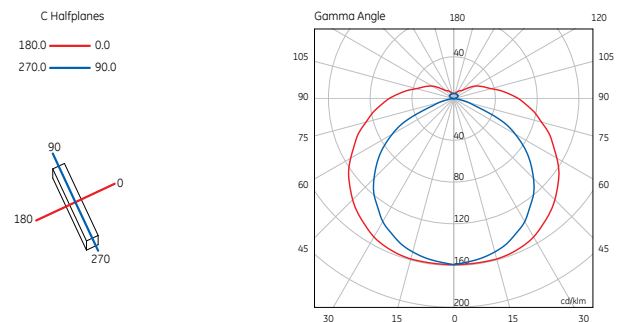
Opal diffuser – 2x36W



Prismatic diffuser – 2x18W



Prismatic diffuser – 2x36W



CEI 34.21 / EN 60598 - 220-240V/50-60HZ - CLASS I - IP40

Watt (W)	Description	Lamp qty & type	Weight (kg)	Pack qty	Product code
Diffuser: opal					
18W	NEW NUplex 218 EB S	2 x F18W/835	1.44	1	77534
36W	NEW NUplex 236 EB S	2 x F36W/835	2.58	1	77553

Supplied complete with lamp.

Watt (W)	Description	Lamp qty & type	Weight (kg)	Pack qty	Product code
Diffuser: prismatic					
18W	NEW NUplex 218 EB G	2 x F18W/835	1.44	1	77554
36W	NEW NUplex 236 EB G	2 x F36W/835	2.58	1	77555

Accessories

Pendant kit - product code under listing.

SERIES 5500 T5



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

5500 Series for T5 fluorescent lamps

Recessed luminaires for mounting on exposed 24mm T sections of 600x600mm ceilings..

This luminaire is also suitable for plaster and metal (clip-in) suspended ceilings by using metal mounting clips.

Body

Pressed 0.5mm perforated sheet steel with white power paint finish.

Optic

Reference /16 - dark light aluminium louvre:

Ideal for work environments with computer display monitors. Louvre with broad symmetrical batwing light distribution featuring longitudinal reflectors and double transverse blades, in anodized anti-iridescent 99.9% pure aluminium MIRO reflector with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Accessories

Power Supply

Control gear and electric circuit

Electronic ballast 230-240V / 50-60Hz warm start with HT 90°C heat-resistant wiring.

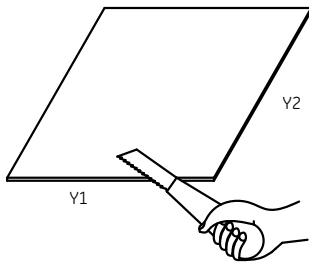
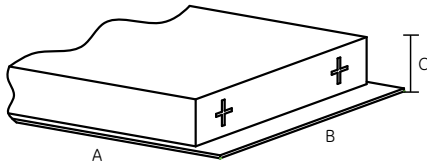
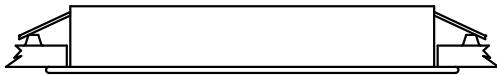
Emergency supply

Emergency supply (EES Version) on request.

Lamp

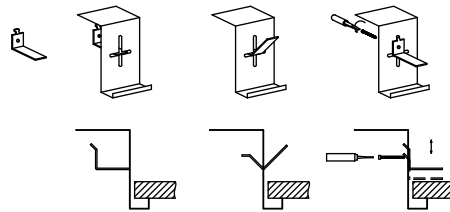
Complete with T5 LongLast™ HE (High Efficiency) 4000K lamp.

Dimensions (mm)



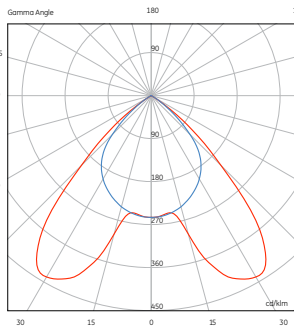
Luminaire Type	Luminaire Dimensions (mm) AxBxC			Cutting hole dimension (mm)	
	A	B	C	Y1	Y2
14W					
5500 2x14W T5	595	595	57	510	575
5500 3x14W T5	595	595	57	510	575
5500 4x14W T5	595	595	57	510	575
28W					
5500 1x28W T5	230	1195	57	90	1175
5500 2x28W T5	295	1195	57	170	1175
5500 3x28W T5	595	1195	57	510	1175
35W					
5500 1x35W T5	230	1795	57	90	1475
5500 2x35W T5	290	1795	57	170	1475
5500 3x35W T5	595	1795	57	510	1475
54W					
5500 1x54W T5	230	1195	57	90	1175
5500 2x54W T5	290	1195	57	170	1175
5500 3x54W T5	570	1195	57	510	1175

Metal mounting clips - installation details

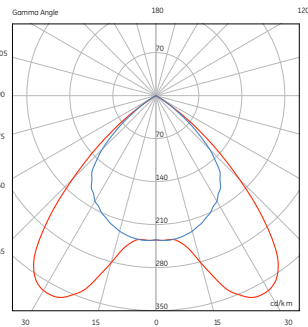


Photometric data

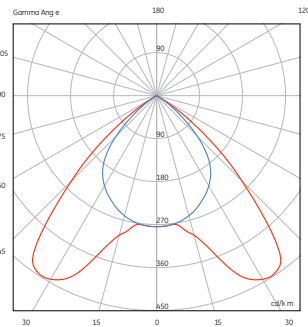
SERIES 5500 T5 2x14W



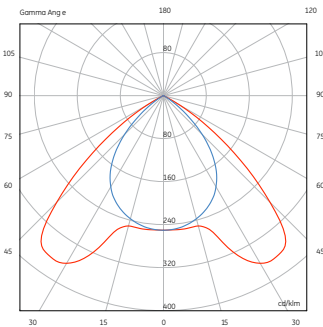
SERIES 5500 T5 2x35W



SERIES 5500 T5 3x14W



SERIES 5500 T5 4x14W



Series 5500 T5 fluorescent lamps with electronic ballast

CEI 34.21/EN 60598-1 CE - Class I - IP20

Description	Lamp qty and type	Weight (kg)	Pack qty	Product code
14W				
5500 2x14 /16 EB	2x F14W/T5/840	4.50	1	44346
5500 3x14 /16 EB	3x F14W/T5/840	4.70	1	44344
5500 4x14 /16 EB	4x F14W/T5/840	4.90	1	44335
28W				
5500 1x28 /16 EB	1x F28W/T5/840	TBD	1	TBD
5500 2x28 /16 EB	2x F28W/T5/840	5.40	1	44345
5500 3x28 /16 EB	3x F28W/T5/840	8.40	1	44343
35W				
5500 1x35 /16 EB	1x F35W/T5/840	TBD	1	TBD
5500 2x35 /16 EB	2x F35W/T5/840	7.50	1	44342
5500 3x35 /16 EB	3x F35W/T5/840	TBD	1	TBD
54W				
5500 1x54 /16 EB	1x F54W/T5/840	TBD	1	TBD
5500 2x54 /16 EB	2x F54W/T5/840	5.40	1	44341
5500 3x54 /16 EB	3x F54W/T5/840	TBD	1	TBD

Complete with T5 LongLast™ lamp
16= Dark Light Screen
EES Emergency supply on request

SERIES 5507 T5



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Recessed-surface mounted luminaires. The luminaire is suitable for plaster types of suspended ceiling by using metal mounting clips.

Body

Pressed 0.5mm perforated sheet steel with white powder paint finish and 1.5mm anodized aluminium profile sides.

Optic

Reference/16 - dark light aluminium louvre:

Ideal for work environments with computer display monitors. Louvre with broad symmetrical batwing light distribution featuring longitudinal reflectors and double transverse blades, in anodized anti-iridescent 99.9% pure aluminium MIRO reflector with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Power Supply

Control gear and electric circuit

Electronic ballast 230-240V/50-60Hz warm start with HT 90°C heat-resistant wiring.

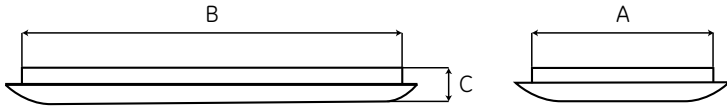
Emergency supply

Emergency supply (EES Version) on request.

Lamp

Complete with T5 LongLast™ HE (High Efficiency) 4000K lamp.

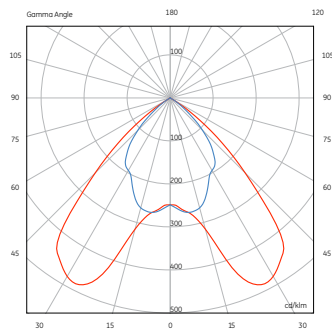
Dimensions (mm)



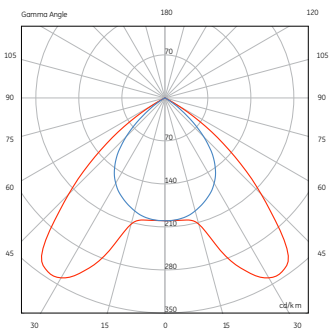
Luminaire Type	Luminaire Dimension (mm) AxBxC		
	A	B	C
14W			
5507/2x14W/16 EB	290	595	57
5507/3x14W/16 EB	570	595	57
5507/4x14W/16 EB	570	595	57
28W			
5507/1x28W/16 EB	230	1195	57
5507/2x28W/16 EB	290	1195	57
5507/3x28W/16 EB	570	1195	57
35W			
5507/1x35W/16 EB	230	1795	57
5507/2x35W/16 EB	290	1795	57
5507/3x35W/16 EB	570	1795	57
54W			
5507/1x54W/16 EB	230	1195	57
5507/2x54W/16 EB	290	1195	57
5507/3x54W/16 EB	570	1195	57

Photometric data

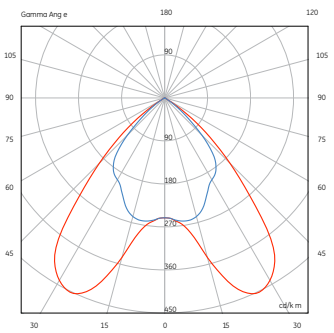
SERIES 5507 T5 2x14W



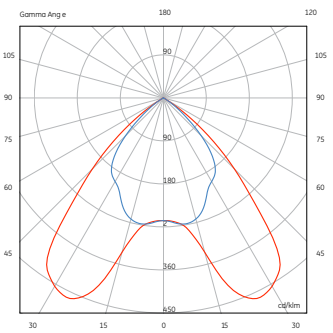
SERIES 5507 T5 2x28W



SERIES 5507 T5 3x28W



SERIES 5507 T5 3x54W



Series 5507 for T5 fluorescent lamps with electronic ballast

CEI 4.21 / EN 60598-1, IEC 60598 - Class I - IP20
230-240V / 50-60Hz

Description	Lamp qty and type	Weight (kg)	Pack qty	Product code
14W				
5507 2x14/ 16EB T5	2xF14W/T5/840	4.70	1	44355
5507 3x14/ 16EB T5	3xF14W/T5/840	5.20	1	44356
5507 4x14/ 16EB T5	4xF14W/T5/840	5.40	1	44361
28W				
5507 1x28/ 16EB T5	1xF28W/T5/840	TBD	1	TBD
5507 2x28/ 16EB T5	2xF28W/T5/840	5.90	1	44358
5507 3x28/ 16EB T5	3xF28W/T5/840	9.50	1	44360
35W				
5507 1x35/ 16EB T5	1xF35W/T5/840	TBD	1	TBD
5507 2x35/ 16EB T5	2xF35W/T5/840	TBD	1	TBD
5507 3x35/ 16EB T5	3xF35W/T5/840	TBD	1	TBD
54W				
5507 1x54/ 16EB T5	1xF54W/T5/840	TBD	1	TBD
5507 2x54/ 16EB T5	2xF54W/T5/840	5.90	1	44357
5507 3x54/ 16EB T5	3xF54W/T5/840	9.50	1	44359

Complete with lamp LongLast™ T5 4000K
16=Dark Light Screen
EES Emergency supply on request



SERIES 5500 T8



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Recessed luminaires for mounting on exposed 24mm T section of 600x600mm ceilings.

Body

Cold-Rolled, white powder coated steel sheet (thickness: 0.6mm).

Optics

Reference/16 - dark light aluminium louvre:

Ideal for work environments with video display terminals. Louvre with broad symmetrical batwing light distribution, featuring longitudinal reflectors and double parabolic transverse blades, in anodised anti-iridescent 99.90% pure aluminium with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Power Supply

Control gear and electric circuit

Electronic ballast for 220-240V 50/60Hz warm start.

Wired using cables with silicon sleeves; terminal block with 2.5 mm² clamping screws.

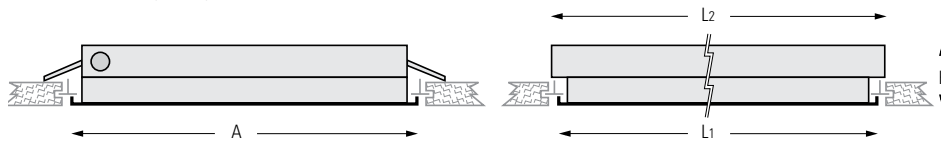
Emergency supply

Emergency supply (EES Version) on request.

Lamp

Luminaire supplied without lamps.

Dimensions (mm)

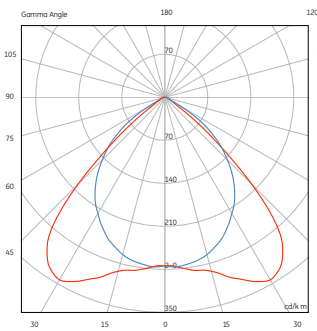
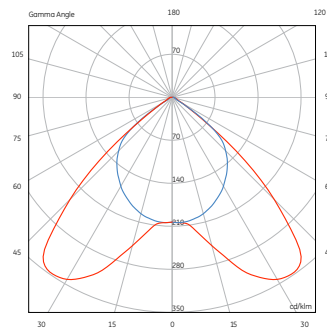


Type	Dimensions (mm)			
	A	L1	L2	H
5500 2x36W T8	293	1192	1224	57
5500 2x58W T8	293	1492	1524	57
5500 4x18W T8	593	594	611	57

Photometric data

Series 5500 4x18W/6

Series 5500 4x18W/16



Series 5500 for T8 fluorescent lamps with electronic ballast

CEI 34.21/EN 60598-1
220-240V - 50/60 Hz - Class I - IP 20

Description	Lamp Type	Weight (kg)	Pack Qty	Product Code
4x18W				
5500 4x18W / 16 EB LL 220-240V	4xPOLYLUX XLR F18W	3.40	1	43835
2x36W				
5500 2x36W / 16 EB LL 220-240V	2xPOLYLUX XLR F36W	3.80	1	512632
2x58W				
5500 2x58W / 16 EB LL 220-240V	2xPOLYLUX XLR F58W	4.50	1	75054

Luminaire supplied without lamps
16 dark light aluminium louvre
EBD dimmable electronic ballast on request
EES Emergency supply on request



SERIES 5506 T5



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Surface mounted luminaires.

Body

Pressed 0.5mm perforated sheet steel with powder paint finish and 1.5mm anodized aluminium profile sides.

Optic

Reference/16 - dark light aluminium louvre:

Ideal for work environments with computer display monitors. Louvre with broad symmetrical batwing light distribution featuring longitudinal reflectors and double transverse blades, in anodized anti-iridescent 99.9% pure aluminium MIRO reflector with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Control gear and electric circuit

Electronic Ballast 230-240V / 50-60Hz warm start with HT 90°C heat-resistant wiring. Dimmable electronic ballast EBD on request.

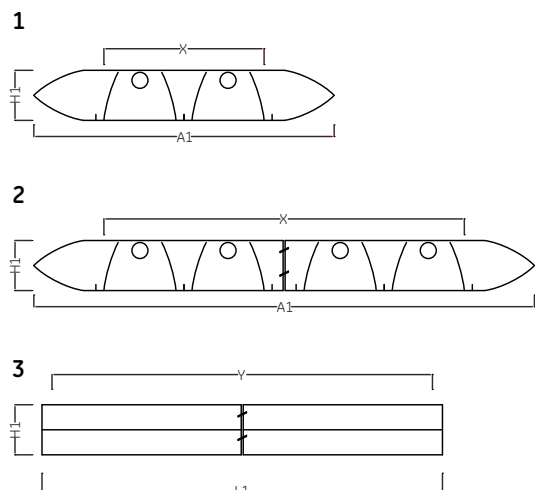
Emergency supply

Emergency supply (EES Version) on request.

Lamp

Complete with T5 LongLast™ 4000K lamp.

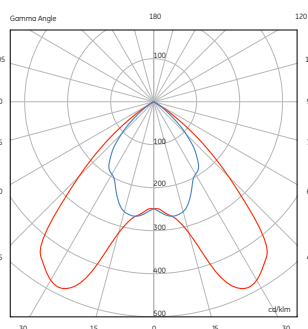
Dimensions (mm)



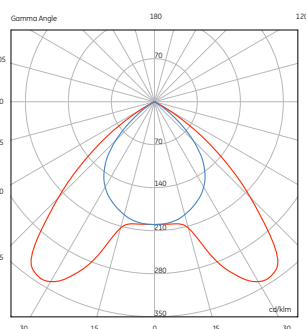
Luminaire Type	Luminaire Dimensions (mm)			Fixing Holes distance (mm)	
	A1	L1	H1	X	Y
14W					
5506 2x14	330	590	55	138	485
5506 3x14	570	590	55	373	485
5506 4x14	570	590	55	373	485
24W					
5506 2x24	330	590	55	138	485
5506 3x24	570	590	55	373	485
28W					
5506 1x28	250	1188	55	58	1150
5506 2x28	330	1188	55	138	1150
35W					
5506 1x35	250	1488	55	58	1450
5506 2x35	330	1488	55	138	1450
5506 3x35	570	1488	55	373	1450
54W					
5506 1x54	250	1188	55	58	1150
5506 2x54	330	1188	55	138	1150
5506 3x54	570	1188	55	373	1150

Photometric data

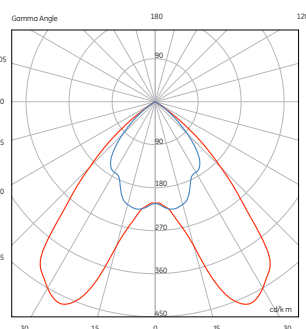
SERIES 5506 T5 2x14W



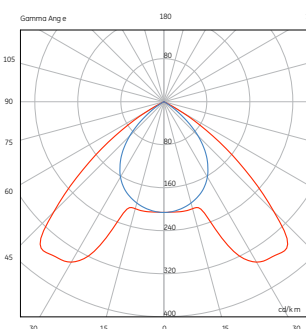
SERIES 5506 T5 2x28W



SERIES 5506 T5 3x14W



SERIES 5506 T5 4x14W



Series 5506 for T5 fluorescent lamps with electronic ballast
Surface mounted

CEI 4.21 / EN 60598-1, IEC 60598 - Class I - IP20
230-240V / 50-60Hz

Description	Lamp type	Weight (kg)	Pack qty	Product code
14W				
5506T5 2x14W / 16EB	2xF14W/T5/840	2.3	1	44340
5506 T5 3x14W / 16EB	3xF14W/T5/840	4.4	1	44338
5506 T5 4x14W / 16EB	4xF14W/T5/840	3.9	1	44350
24W				
5506 T5 2x24W / 16EB	2xF24W/T5/840	2.3	1	TBD
5506 T5 3x24W / 16EB	3xF24W/T5/840	4.4	1	TBD
28W				
5506 T5 1x28W / 16EB	1xF28W/T5/840	3.2	1	TBD
5506 T5 2x28W / 16EB	2xF28W/T5/840	4.5	1	44339
5506 T5 3x28W / 16EB	3xF28W/T5/840	8.3	1	44336
35W				
5506 T5 1x35W / 16EB	1xF35W/T5/840	4.6	1	TBD
5506 T5 2x35W / 16EB	2xF35W/T5/840	5.5	1	TBD
5506 T5 3x35W / 16EB	3xF35W/T5/840	11	1	TBD
54W				
5506 T5 1x54W / 16EB	1xF54W/T5/840	3.2	1	TBD
5506 T5 2x54W / 16EB	2xF54W/T5/840	4.5	1	TBD
5506 T5 3x54W / 16EB	3xF54W/T5/840	8.3	1	TBD

Complete with T5 LongLast™ 4000K lamp
16 dark light aluminium louvre
EBD with dimmable electronic ballast - available on request
EES with remote emergency group - available on request



SERIES 5506 T5 PENDANT



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Suspended luminaire for direct or direct/indirect lighting for T5 fluorescent lamps.

Body

Pressed 0.5mm perforated sheet steel with white powder paint finish and 1.5mm anodized aluminium profile sides.

Optical accessories

Reference/16 - dark light aluminium louvre:

Ideal for work environments with computer display monitors. Louvre with broad symmetrical batwing light distribution featuring longitudinal reflectors and double transverse blades, in anodized anti-iridescent 99.9% pure aluminium MIRO reflector with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Control gear and electric circuit

Electronic ballast 230-240V/50-60Hz warm start with HT 90°C heat-resistant wiring.

Dimmable electronic ballast EBD on request.

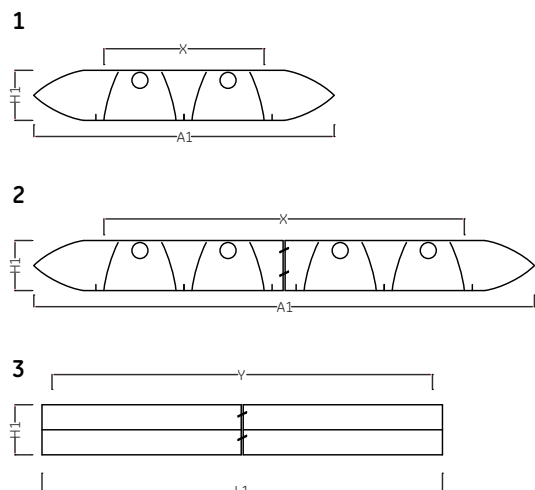
Emergency supply

Emergency supply (EES Version) on request.

Lamp

Complete with T5 LongLast™ 4000K lamp.

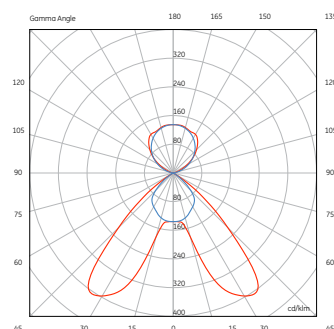
Dimensions (mm)



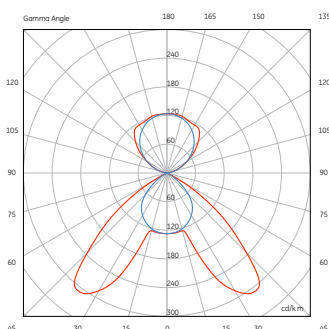
Luminaire Type	Luminaire Dimensions (mm)			Fixing Holes distance (mm)	
	A1	L1	H1	X	Y
14W					
5506 2x14	330	590	55	138	485
5506 3x14	570	590	55	373	485
5506 4x14	570	590	55	373	485
24W					
5506 2x24	330	590	55	138	485
5506 3x24	570	590	55	373	485
28W					
5506 1x28	250	1188	55	58	1150
5506 2x28	330	1188	55	138	1150
35W					
5506 1x35	250	1488	55	58	1450
5506 2x35	330	1488	55	138	1450
5506 3x35	570	1488	55	373	1450
54W					
5506 1x54	250	1188	55	58	1150
5506 2x54	330	1188	55	138	1150
5506 3x54	570	1188	55	373	1150

Photometric data

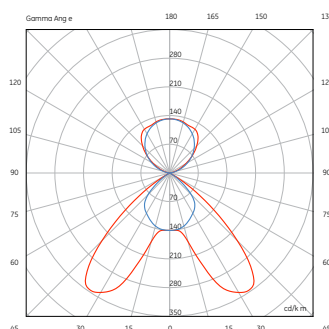
SERIES 5506 T5 2x14W PENDANT



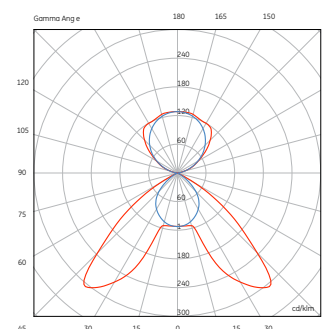
SERIES 5506 T5 2x28W PENDANT



SERIES 5506 T5 2x35W PENDANT



SERIES 5506 T5 2x54W PENDANT



Series 5506 Pendant for T5 fluorescent lamps with electronic ballast

CEI 4.21 / EN 60598-1, IEC 60598 - Class I - IP20
230-240V / 50-60Hz

Description	Lamp	Weight (kg)	Pack qty	Product code
14W				
5506 T5 SUSPENSION 2x14W / 16EB	2 x F14W/T5/840	2.2	1	44349
5506 T5 SUSPENSION 3x14W / 16EB	3 x F14W/T5/840	4.4	1	44351
5506 T5 SUSPENSION 4x14W / 16EB	4 x F14W/T5/840	3.9	1	44353
24W				
5506 T5 SUSPENSION 2x24W / 16EB	2 x F24W/T5/840	2.2	1	TBD
5506 T5 SUSPENSION 3x24W / 16EB	3 x F24W/T5/840	4.3	1	TBD
28W				
5506 T5 SUSPENSION 1x28W / 16EB	1 x F28W/T5/840	3.2	1	TBD
5506 T5 SUSPENSION 2x28W / 16EB	2 x F28W/T5/840	3.9	1	44348
5506 T5 SUSPENSION 3x28W / 16EB	3 x F28W/T5/840	8.3	1	44352
35W				
5506 T5 SUSPENSION 1x35W / 16EB	1 x F35W/T5/840	4.5	1	TBD
5506 T5 SUSPENSION 2x35W / 16EB	2 x F35W/T5/840	4.8	1	TBD
54W				
5506 T5 SUSPENSION 1x54W / 16EB	1 x F54W/T5/840	3.2	1	TBD
5506 T5 SUSPENSION 2x54W / 16EB	2 x F54W/T5/840	3.9	1	44347
5506 T5 SUSPENSION 3x54W / 16EB	3 x F54W/T5/840	8.3	1	44354

Complete with T5 LongLast™ 4000K lamp
16 dark light aluminium louvre
EBD with dimmable electronic ballast - available on request
EES with remote emergency group - available on request

SERIES 5506 T8



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Ceiling mounted luminaires.

Body

Cold-rolled sheet steel with white paint powder finish.
End caps: white polycarbonate.

Optics

Reference/5 - white aluminium louvre:

Louvre with broad symmetrical light distribution, featuring longitudinal reflectors and straight transverse blades, in aluminium with gloss white painted finish.

Reference/6 - polished aluminium louvre:

Louvre with broad symmetrical light distribution, featuring longitudinal reflectors, in aluminium with polished finish (99.85%), satin-finished extruded aluminium transverse blades.

Reference/16 - dark light aluminium louvre:

Ideal for work environments with video display terminals. Louvre with broad symmetrical batwing light distribution, featuring longitudinal reflectors and double parabolic transverse blades, in anodised anti-iridescent 99.90% pure aluminium with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.

Control gear and electric circuit

Electronic ballast for 220-240V 50/60Hz warm start.

Wired using cables with silicon sleeves; terminal block with 2.5mm² clamping screws. Dimmable electronic ballast version available on request.

Emergency supply

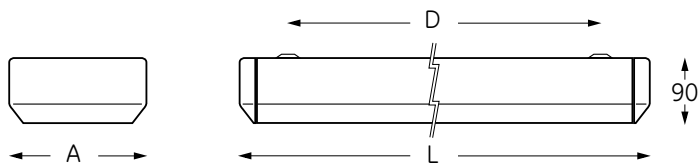
Emergency supply (EES Version) on request.

Lamp

Luminaire supplied without lamps.

Dimensions (mm)

Series 5506 T8

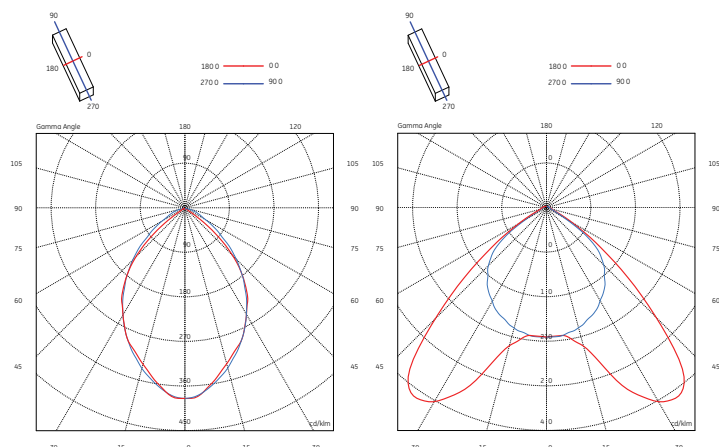


Type	Dimensions (mm)		
	A	L	D
Series 5506 T8			
5506/236	296	1265	900
5506/258	296	1565	1200

Photometric data

5506/236/6

5506/236/16



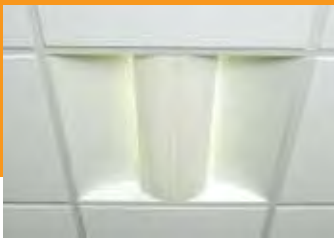
Series 5506 for T8 fluorescent lamps with electronic ballast

CEI 34.21/EN 60598-1
220-240V - 50/60 Hz - Class I - IP 20
Luminaire supplied without lamp



Description	Lamp type	Weight (kg)	Pack qty	Product code
2x36W				
5506 T8 2x36W / 6 EB LL	2xPOLYLUX XLR F36W	4.00	1	43036
5506 T8 2x36W / 16 EB LL	2xPOLYLUX XLR F36W	4.00	1	39692
2x58W				
5506 T8 2x58W / 6 EB LL	2xPOLYLUX XLR F58W	4.70	1	43037
5506 T8 2x58W / 16 EB LL	2xPOLYLUX XLR F58W	4.70	1	39703

Luminaire supplied without lamps
6 polished aluminium louvre
16 dark light aluminium louvre
EBD dimmable electronic ballast on request
EES Emergency supply on request
EB electronic ballast on request



Applications

Offices, hotels, shopping centres, hospitals, schools.

Technical specification

Series 5502 for direct/indirect (CAL) & indirect illumination (C).
600x600mm false ceiling recessed supported by 24mm grid exposed ceiling or concealed supports with clips for precision adjustment (supplied).

Body

Rolled, white powder coated steel sheet (thickness: 0.6mm)

Louvre

Micro-perforated steel sheet; 2 models available for Biax L 34W and 55W.

C 2 central screens (indirect illumination)

CAL 2 centred screens + louvre dark light (direct/indirect illumination)

Power Supply and electric circuit

Electronic ballast 230-240V/50-60Hz warm start; 90°C HT thermo set wires. Incorporated 2A fuse.

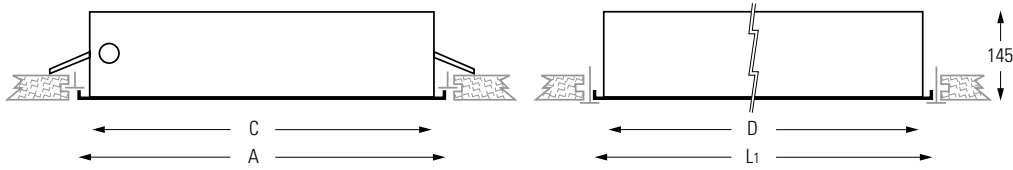
Emergency supply

Emergency supply (EES Version) on request.

Lamp

Luminaire supplied without Biax L 34W and 55W 4pin 2G11 lamps.

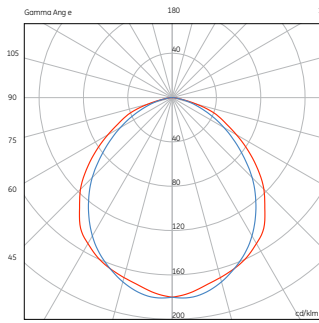
Dimensions (mm)



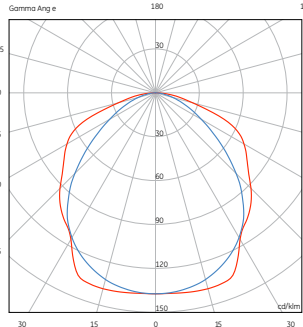
Type	Dimensions (mm)			
	A	L1	C	D
5502	595	595	575	575

Photometric data

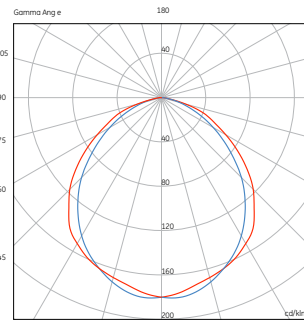
SERIES 5502 2x34W C



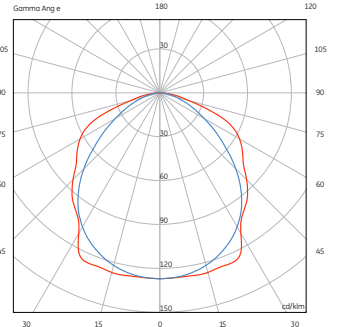
SERIES 5502 2x34W C AL



SERIES 5502 2x55W C



SERIES 5502 2x55W C AL



Series 5502 for Biax L compact fluorescent lamps with electronic ballast

230V/50Hz - Class I - IP40
Without lamp



Description	Lamp type	Weight (kg)	Pack Qty	Product Code
5502 2x34W / C EB	2x F34BX 2G11	4.6	1	515820
5502 2x34W / C AL EB	2x F34BX 2G11	4.6	1	515822
5502 2x55W / C EB	2x F55BX 2G11	4.6	1	44378
5502 2x55W / C AL EB	2x F55BX 2G11	4.6	1	72681

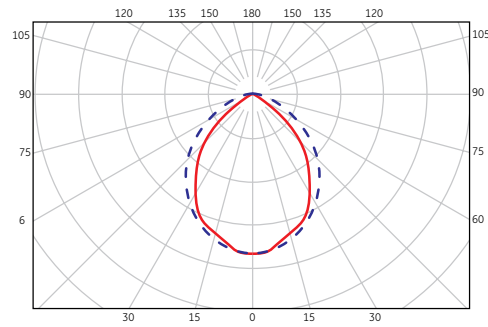
EB=Electronic Ballast

Luminaire supplied without lamps

C 2 central screens (indirect illumination)

C AL 2 centred screens + louvre dark light (direct/indirect illumination)

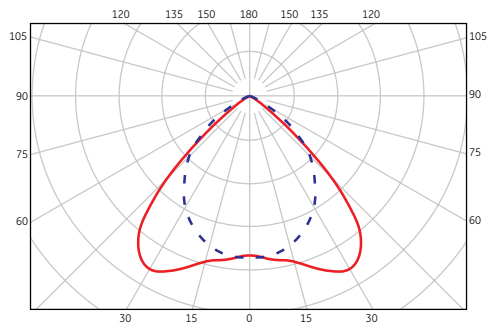
5500 SERIES LOUVRES



POLISHED ALUMINIUM LOUVRE

- Reference/6

Louvre with broad symmetrical light distribution, featuring longitudinal reflectors, in aluminium with polished finish (99.85%), satin-finished extruded aluminium transverse blades.



MIRROR-FINISH ALUMINIUM LOUVRE

- Reference /16

Ideal for work environments with video display terminals. Louvre with broad symmetrical Batwing light distribution, featuring longitudinal reflectors and double parabolic transverse blades, in anodised anti-iridescent 99.90% pure aluminium with mirror finish. Direct longitudinal and transverse luminance less than 200 cd/m² for vertical angles over 60°.



INDOOR DECORATIVE





Residential lighting

BRIO PREMIUM	176
BRIO	178
RONDO	180
CLUB	182
DIAMOND	184
MINI STYLO	186
STYLO	188
EUROSTYLO	190
FLAT	192

BRIO PREMIUM



DIFFUSER
OPAL

COLOUR
WHITE, BLACK, SILVER GREY

IP54

IP54

IK07

1.2-1.9 KG



Application

Wall & ceiling luminaire. Versatile application range including damp environment, entrance halls, receptions, stairwells, corridors, circulation routes, rest areas and building surrounds.

Technical specification

BRIO PREMIUM range offers a comprehensive choice of versions and colours such as white, black and silver grey finishes with 3 different decorative covers: Bezel, Grille, Visor. Suitable for indoor or outdoor (IP54) applications, BRIO PREMIUM includes the high performing GE 2D™ Watt-Miser™ lamps that gives the best in class diffused light and uniformity. GE 2D™ Watt-Miser™ fluorescent lamp technology is ideal for the optimisation of the energy consumption. Easy and quick to install, the "twist and lock" opening mechanism gives a safe access (Class II) to the lamp for the maintenance.

Body

Impact-resistant, self-extinguishing polycarbonate.

Closing screen

Metacrylate opal.

Ring

Antistatic, ABS coloured. Colours: white, black and silver grey.

Optics

Reflector: self-extinguish polycarbonate white.

Power supply

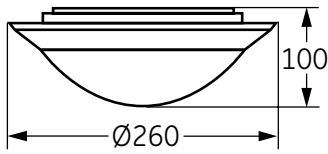
Magnetic ballast 230V 50Hz LPF, low-loss ballast 230V 50Hz LPF.

Lamp

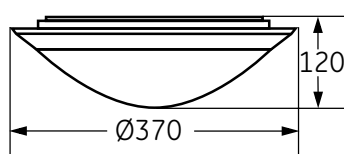
Luminaire complete with 2D™ Watt-Miser™ lamp, 3500K CRI 85.

Dimensions (mm)

16W-21W



28W-38W



Bezel



Grille

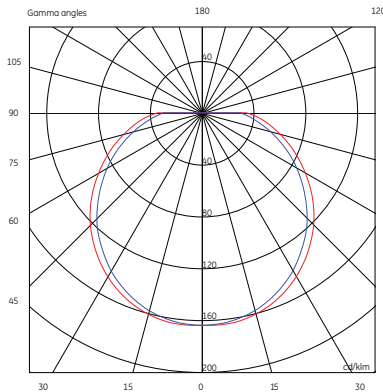


Visor

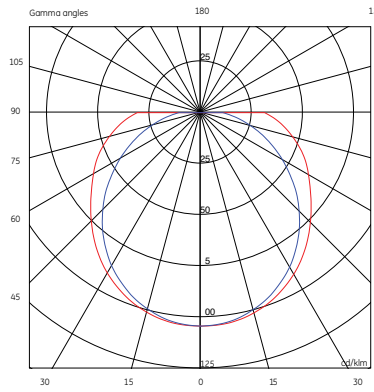


Photometric data

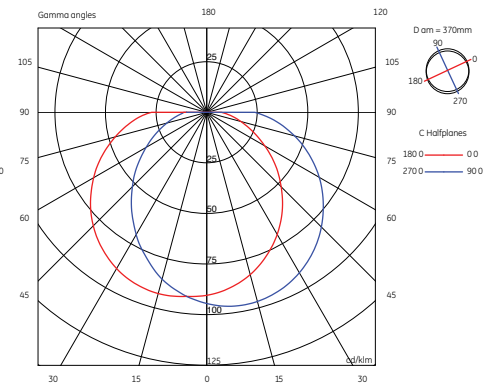
BRIO PREMIUM 28W BEZEL



BRIO PREMIUM 28W GRILLE



BRIO PREMIUM 28W VISOR



BRIO PREMIUM with electromagnetic ballast

CEI 34.21 / EN 60598-1 - Class II - 230V/50Hz - IP54 - IK07 Opal diffuser
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
16W Bezel				
BRIO PREMIUM OPAL 2D 16W BK L 835 230V BEZEL	F162D/835/4P	1.20	6	44569
BRIO PREMIUM OPAL 2D 16W GR L 835 230V BEZEL	F162D/835/4P	1.20	6	44442
BRIO PREMIUM OPAL 2D 16W WH L 835 230V BEZEL	F162D/835/4P	1.20	6	44379
Grille				
BRIO PREMIUM OPAL 2D 16W BK L 835 230V GRILLE	F162D/835/4P	1.20	6	44568
BRIO PREMIUM OPAL 2D 16W GR L 835 230V GRILLE	F162D/835/4P	1.20	6	44577
BRIO PREMIUM OPAL 2D 16W WH L 835 230V GRILLE	F162D/835/4P	1.20	6	44394
Visor				
BRIO PREMIUM OPAL 2D 16W BK L 835 230V VISOR	F162D/835/4P	1.20	6	44567
BRIO PREMIUM OPAL 2D 16W GR L 835 230V VISOR	F162D/835/4P	1.20	6	44398
BRIO PREMIUM OPAL 2D 16W WH L 835 230V VISOR	F162D/835/4P	1.20	6	44389
21W Bezel				
BRIO PREMIUM OPAL 2D 21W BK L 835 230V BEZEL	F212D/835/4P	1.20	6	44515
BRIO PREMIUM OPAL 2D 21W GR L 835 230V BEZEL	F212D/835/4P	1.20	6	44440
BRIO PREMIUM OPAL 2D 21W WH L 835 230V BEZEL	F212D/835/4P	1.20	6	44535
Grille				
BRIO PREMIUM OPAL 2D 21W BK L 835 230V GRILLE	F212D/835/4P	1.20	6	44487
BRIO PREMIUM OPAL 2D 21W GR L 835 230V GRILLE	F212D/835/4P	1.20	6	44413
BRIO PREMIUM OPAL 2D 21W WH L 835 230V GRILLE	F212D/835/4P	1.20	6	44444
Visor				
BRIO PREMIUM OPAL 2D 21W BK L 835 230V VISOR	F212D/835/4P	1.20	6	44484
BRIO PREMIUM OPAL 2D 21W GR L 835 230V VISOR	F212D/835/4P	1.20	6	44402
BRIO PREMIUM OPAL 2D 21W WH L 835 230V VISOR	F212D/835/4P	1.20	6	44441

Colour: WH - white
BK - black
GR - silver grey

BRIO PREMIUM with electromagnetic ballast

CEI 34.21 / EN 60598-1 - Class II - 230V/50Hz - IP54 - IK07 Opal diffuser
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
28W Bezel				
BRIO PREMIUM OPAL 2D 28W BK H 835 230V BEZEL	F282DT5/835/4P	1.924	4	44541
BRIO PREMIUM OPAL 2D 28W GR H 835 230V BEZEL	F282DT5/835/4P	1.924	4	44479
BRIO PREMIUM OPAL 2D 28W WH H 835 230V BEZEL	F282DT5/835/4P	1.924	4	44563
Grille				
BRIO PREMIUM OPAL 2D 28W BK H 835 230V GRILLE	F282DT5/835/4P	1.924	4	44644
BRIO PREMIUM OPAL 2D 28W GR H 835 230V GRILLE	F282DT5/835/4P	1.924	4	44465
BRIO PREMIUM OPAL 2D 28W WH H 835 230V GRILLE	F282DT5/835/4P	1.924	4	44560
Visor				
BRIO PREMIUM OPAL 2D 28W BK H 835 230V VISOR	F282DT5/835/4P	1.924	4	44641
BRIO PREMIUM OPAL 2D 28W GR H 835 230V VISOR	F282DT5/835/4P	1.924	4	44453
BRIO PREMIUM OPAL 2D 28W WH H 835 230V VISOR	F282DT5/835/4P	1.924	4	44557
38W Bezel				
BRIO PREMIUM OPAL 2D 38W BK H 835 230V BEZEL	F382DT5/835/4P	1.924	4	44608
BRIO PREMIUM OPAL 2D 38W GR H 835 230V BEZEL	F382DT5/835/4P	1.924	4	44639
BRIO PREMIUM OPAL 2D 38W WH H 835 230V BEZEL	F382DT5/835/4P	1.924	4	44612
Grille				
BRIO PREMIUM OPAL 2D 38W BK H 835 230V GRILLE	F382DT5/835/4P	1.924	4	44605
BRIO PREMIUM OPAL 2D 38W GR H 835 230V GRILLE	F382DT5/835/4P	1.924	4	44634
BRIO PREMIUM OPAL 2D 38W WH H 835 230V GRILLE	F382DT5/835/4P	1.924	4	44611
Visor				
BRIO PREMIUM OPAL 2D 38W BK H 835 230V VISOR	F382DT5/835/4P	1.924	4	44684
BRIO PREMIUM OPAL 2D 38W GR H 835 230V VISOR	F382DT5/835/4P	1.924	4	44613
BRIO PREMIUM OPAL 2D 38W WH H 835 230V VISOR	F382DT5/835/4P	1.924	4	44609

Colour: WH - white
BK - black
GR - silver grey



DIFFUSER
CLEAR, OPAL

COLOUR
WHITE

IP54

IP54

IK03/06

1.2-2.8 KG



Applications

Wall & ceiling luminaire. Ideal for domestic and professional applications, hotels, etc. BRIO is a unique collection of contemporary luminaire ranges, including wall and ceiling mounted versions offering a distinctive appearance and striking performance. The design and the variety of colours allow you to choose the ideal aesthetic for your desired application.

Technical specification

The Brio range is available in 2 sizes, with magnetic and electronic ballast. The ideal solution for indoor and exterior applications thanks to the IP54 rating.

Body

Impact-resistant, self-extinguishing polycarbonate.

Closing screen

Metacrylate clear or opal.

Ring

ABS, with snap profile for diffuser mounting and fasteners for anchoring to the body. Colour: white.

Optics

Reflector: high-reflective, impact-resistant, self-extinguishing material.
Diffuser: metacrylate, transparent or opal.

Power supply

- Brio Class II with electromagnetic ballast 230V 50Hz LPF, low-loss ballast 230V 50Hz LPF
- Brio Class II with electronic ballast. Wiring connector with 2.5mm² clamp screws

Lamp

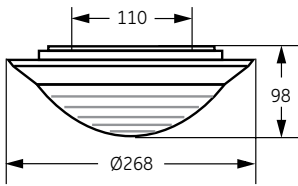
Luminaire complete with 2D™ Watt-Miser™ lamp, 3500K CRI 85.

BRIO – Emergency

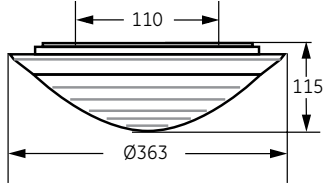
EES Self contained Emergency Lighting with external test switch. In case of power failure, fitting automatically switches to integrated batteries. Normally a red LED shows power and battery charging. Initial light flux: 600 lumens. Batteries: hermetic Nickel-Cadmium batteries with 3.6V and 2Ah capacity. 1 hour life guaranteed after 24hr charging at 25°C. Inverter: electronic charge unit.

Dimensions (mm)

16W-21W

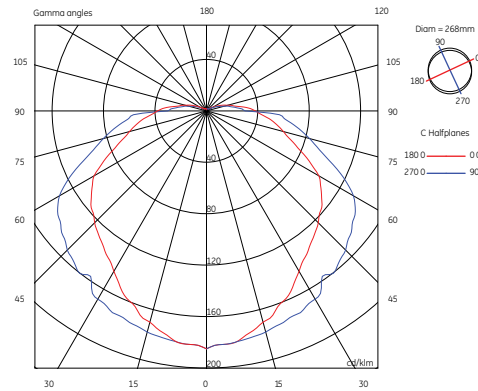


28W-38W

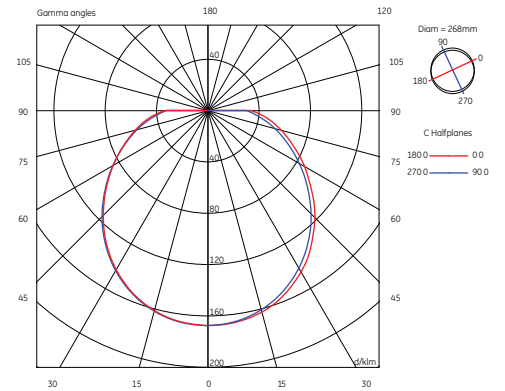


Photometric data

BRIO CLEAR 16W



BRIO OPAL 16W



BRIO with electronic ballast – Class II

CEI 34.21 / EN 60598-1 – 220-240V/50-60Hz – Class II – IP54 – IK06

Opal diffuser – IK06

Watt	Description	Lamp	Weight (kg)	Pack qty	Product code
16	2D BRIO OPAL 16W WH EB	F162D/835/4P	0.80	8	78334
21	2D BRIO OPAL 21W WH EB	F212D/835/4P	0.80	8	77357
28	2D BRIO OPAL 28W WH EB	F282DT5/835/4P	1.40	6	77355
38	2D BRIO OPAL 38W WH EB	F382DT5/835/4P	1.40	6	77356

Colour: WH – white
Ballast: EB – electronic

BRIO Emergency with EES ballast – Class II

CEI 34.21 / EN 60598-1 – 230-240V/50-60Hz – Class II – IP54 – IK03

Clear diffuser – IK03

Watt	Description	Lamp	Weight (kg)	Pack qty	Product code
16	2D BRIO CLEAR 16W WH L EES	F162D/835/4P	2.10	2	43140
28	2D BRIO CLEAR 28W WH L EES	F282D/835/4P	2.80	2	43147

BRIO with magnetic ballast – Class II

CEI 34.21 / EN 60598-1 – 220-240V/50-60Hz – Class II – IP54 – IK03/06

Clear diffuser – IK03

Watt	Description	Lamp	Weight (kg)	Pack qty	Product code
16	2D BRIO CLEAR 16W WH L	F162D/835/4P	1.20	6	43139
21	2D BRIO CLEAR 21W WH L	F212D/835/4P	1.20	6	43142
21	2D BRIO CLEAR 21W BK L	F212D/835/4P	1.20	6	43141
28	2D BRIO CLEAR 28W WH L	F282DT5/835/4P	1.92	4	43146
38	2D BRIO CLEAR 38W WH L	F382DT5/835/4P	1.92	4	43149

Opal diffuser – IK06

Watt	Description	Lamp	Weight (kg)	Pack qty	Product code
16	2D BRIO OPAL 16W WH L	F162D/835/4P	1.20	6	43155
21	2D BRIO OPAL 21W WH L	F212D/835/4P	1.20	6	43162
28	2D BRIO OPAL 28W WH L	F282DT5/835/4P	1.92	4	43172
38	2D BRIO OPAL 38W WH L	F382DT5/835/4P	1.92	4	43177

Colour: WH – white



DIFFUSER
CLEAR, OPAL

COLOUR
WHITE

IP40

IP40

IK08

0.6-1.1 KG



Application

Wall & ceiling luminaire. Ideal for stairwells, walls or other interior applications.

Technical specification

Flat profile, modern design luminaire with rapid warm-up. Biax™ 2D lamp with integral control gear operates on 230/240 volts. Rated average life hours of lamp: 10,000 hours. On/off switch: up to 100,000 cycles power supply. Grade of protection IP40.

Body

Flat profile. Colour: white.

Closing screen

Clear or opal.

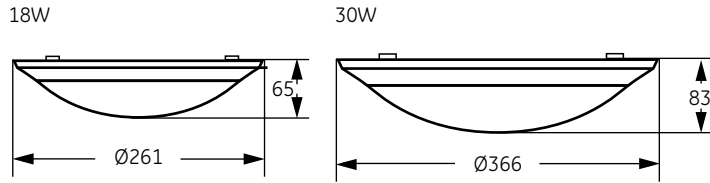
Power supply

The electronic gear is integrated in the Biax™ 2D lamp.

Lamp

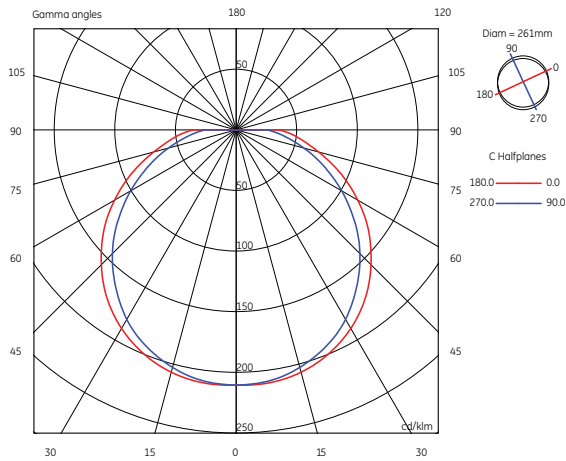
Complete with Biax™ 2D lamp with integral control gear. Operates on 230/240 volts.

Dimensions (mm)

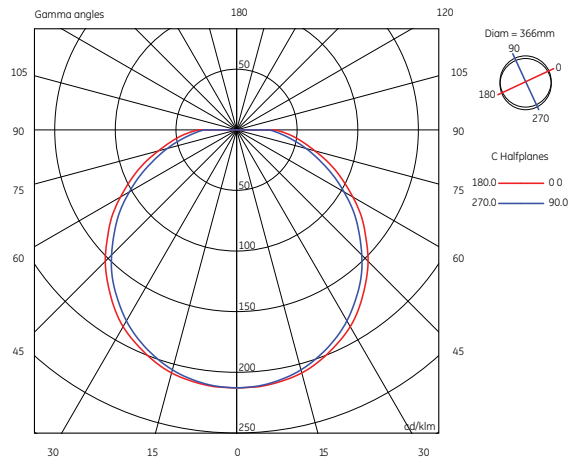


Photometric data

RONDO OPAL 18W



RONDO OPAL 30W



RONDO

CEI 34.21 / EN 60598-1 – Class II – IP40 – IK08
230-240V/50-60Hz
Luminaire complete with lamp

Clear diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
18W				
2DI RONDO CLEAR 18W WH	FLE18W2D/835/GR10d	0.60	5	43244
30W				
2DI RONDO CLEAR 30W WH	FLE30W2D/835/GR10t	1.12	4	43247
Colour: WH – white				

Opal diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
18W				
2DI RONDO OPAL 18W WH	FLE18W2D/835/GR10d	0.60	5	43250
30W				
2DI RONDO OPAL 30W WH	FLE30W2D/835/GR10t	1.12	4	43253
Colour: WH – white				



Application

Wall & ceiling luminaire. Ideal for stairwells, walls or other interior applications.

Technical specification

Series of compact interior/exterior fittings for diffused lighting. Complete with GE 2D™ Watt-Miser™ lamp with low power consumption. Proper protection against contamination from water and dust (IP54). Models with emergency lighting also available.

Body

Impact-resistant, self-extinguishing polycarbonate.

Diffuser

- 16W models: formed, internally frosted glass (clear and opal screen)
- 28W models: metacrylate, satin-finish (clear and opal screen)

Ring

Anti-static coloured ABS. Colour: white.

Optics

Reflector: white coated steel sheet.

Power supply

Magnetic ballast (low-loss) 230-240V/50-60Hz.

Lamp

- Complete with Biax™ 2D™ lamp
- 16W: 2D™ Watt-Miser™ 16W GR8 (2-pin) 2700K CRI 80
 - 28W: 2D™ Watt-Miser™ 28W GR10q (4-pin) 3500K CRI 80

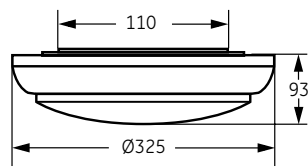
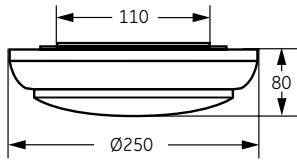
CLUB – Emergency

EES Self contained Emergency Lighting with external test switch. In case of power failure, fitting automatically switches to integrated batteries. Normally a red LED shows power and battery charging. Initial light flux: 600 lumens. Batteries: hermetic Nickel-Cadmium batteries with 3.6V and 2Ah capacity. 1 hour life guaranteed after 24hr charging at 25°C. Inverter: electronic charge unit.

Dimensions (mm)

16W

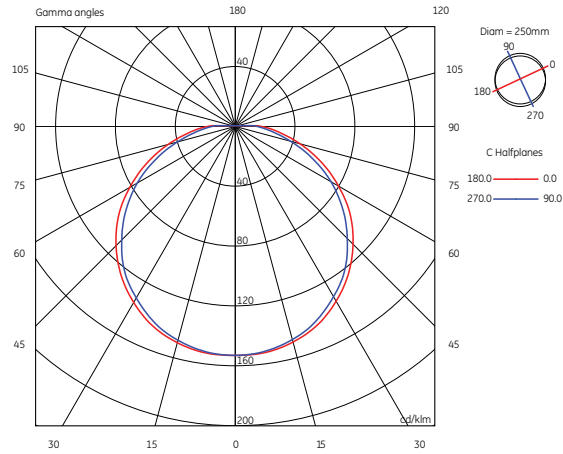
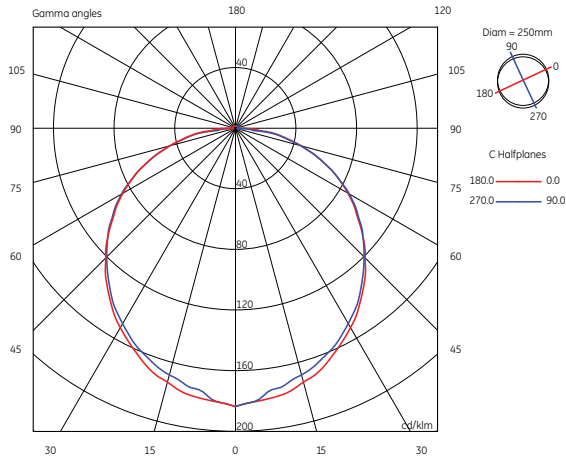
28W-38W



Photometric data

CLUB CLEAR 16W

CLUB OPAL 16W



CLUB with electromagnetic ballast

230V/50Hz - Class II - IP54 - IK06/07 Luminaire complete with lamp

Clear diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
16W - IK07				
2D CLUB CLEAR 16W WH	F162D/827	1.48	6	43181
28W - IK06				
2D CLUB CLEAR 28W WH	F282DT5/835/4P	1.82	4	43183

Opal diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
16W - IK06				
2D CLUB OPAL 16W WH L	F162D/827	1.48	6	43186
28W - IK06				
2D CLUB OPAL 28W WH L	F282DT5/835/4P	1.82	4	43193

Colour: WH - white

CLUB Emergency with EES ballast

230V/50Hz - Class II - IP54 - IK06 Luminaire complete with lamp

Clear diffuser - IK06

Description	Lamp	Weight (kg)	Pack qty	Product code
2D CLUB CLEAR 28W WHLEES	F282DT5/835/4P	2.90	4	43184



DIAMOND



DIFFUSER
CLEAR, OPAL

COLOUR
WHITE

IP54

IP54

IK08

1-2.9 KG



Applications

Wall & ceiling luminaire. Ideal for domestic and professional applications, hotels, etc.

Technical specification

Simple and elegant interior lighting fittings used with compact 2D fluorescent lamps. Particularly versatile in adapting to a host of applications, combining comfort, high efficiency, low-energy. EES, maintained lighting models also available.

Body

Impact-resistant, self-extinguishing polycarbonate.

Diffuser

Clear or opal, impact-resistant polycarbonate.

Ring

Colour: white.

Optics

Reflector: made of high reflection polycarbonate.

Power supply

Magnetic ballast (low-loss)

Lamp

Luminaire complete with 2D™ Watt-Miser™ lamp, GR10q 3500K CRI 85.

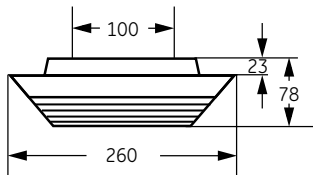


DIAMOND Emergency

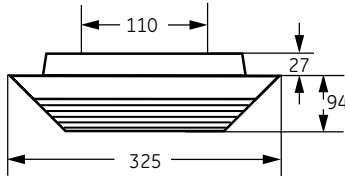
EES Self contained Emergency Lighting with external test switch. In case of power failure, fitting automatically switches to integrated batteries. Normally a red LED shows power and battery charging. Initial light flux: 600 lumens. Batteries: hermetic Nickel-Cadmium batteries with 3.6V and 2Ah capacity. 1 hour life guaranteed after 24hr charging at 25°C. Inverter: electronic charge unit.

Dimensions (mm)

16W-21W

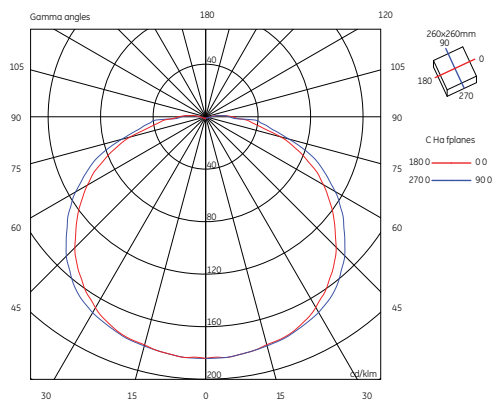


28W-38W

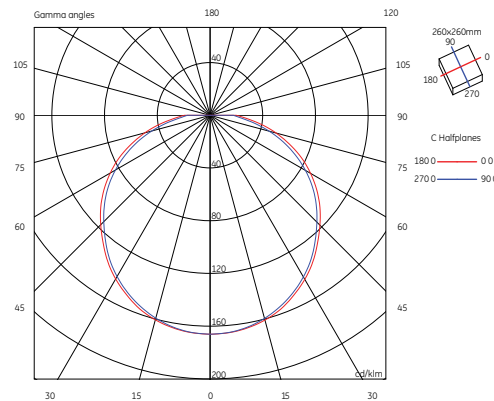


Photometric data


DIAMOND CLEAR 16W



DIAMOND OPAL16W



DIAMOND with electromagnetic ballast


CEI 34.21 / EN 60598-1 – 230V/50Hz – Class II – IP54 – IK08 
Luminaire complete with lamp

Clear diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
16W				
2D DIAMOND CLEAR 16W WH L	F162D/835	1.02	6	43198
21W				
2D DIAMOND CLEAR 21W WH L	F212D/835/4P	1.02	6	43201
28W				
2D DIAMOND CLEAR 28W WH	F282DT5/835/4P	1.82	4	43209
38W				
2D DIAMOND CLEAR 38W WH	F382DT5/835/4P	1.82	4	43211

Colour: WH – white

DIAMOND with electromagnetic ballast


CEI 34.21 / EN 60598-1 – 230V/50Hz – Class II – IP54 – IK08 
Luminaire complete with lamp

Opal diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
16W				
2D DIAMOND OPAL 16W WH L	F162D/835	1.02	6	43214
21W				
2D DIAMOND OPAL 21W WH L	F212D/835/4P	1.02	6	43195
28W				
2D DIAMOND OPAL 28W WH L	F282DT5/835/4P	1.82	4	43218

Colour: WH – white

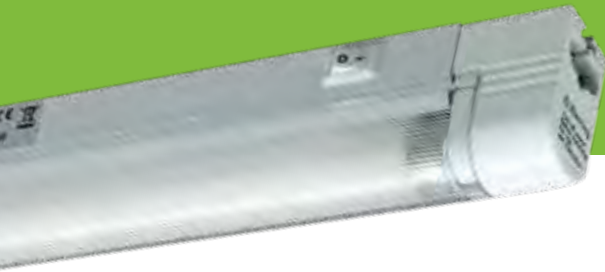
DIAMOND Emergency with EES ballast

CEI 34.21 / EN 60598-1 – 230-240V/50-60Hz – Class II – IP54 – IK08 
Luminaire Luminaire complete with lamp

Clear diffuser

Description	Lamp	Weight (kg)	Pack qty	Product code
2D DIAMOND CLEAR 16W WH EES	F162D/835	1.90	6	43197
2D DIAMOND CLEAR 21W WH L EES	F212D/835/4P	1.90	6	43203
2D DIAMOND CLEAR 28W WH EES	F282DT5/835/4P	2.90	4	43208

Colour: WH – white



Application

Ideal for domestic and shop applications lighting undercounters, kitchen, shelves, display cabinets, furniture cabinets, mobile homes. Mini Stylo is designed for confined spaces where size matters. Cost and energy efficient, Mini Stylo is an ultra slim versatile furniture luminaire solution for the everyday's comfort.

Technical specification

Body

White painted extruded aluminium. Colour: white.

Diffuser

Polycarbonate UV resistant clear diffuser.

End cap

White polycarbonate end caps and lamp holders.

Power supply

Electronic ballast: 1x8W, 1x14W, 1x28W

Lamp

Luminaire complete with linear fluorescent lamp

- 8W - T5 Miniature 4000K
- 14W, 28W - T5 Longlast™ 4000K

Cable connection

RoHS main cables. Suitable for domestic plug socket and terminal blocks. Connection cables are supplied.

Installation/mounting

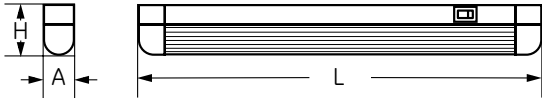
Suitable for surface vertical or horizontal mounting surface for interior use. The body is fixed onto the mounting surface via adjustable plastic rapid kit (horizontal or vertical). Main connection via domestic plug socket or connecting block.

MINISTYLO Electronic

Benefits

- Immediate on.
- Lower wattage than standard magnetic control gear allows up to 20% energy saving.
- Lower heat emission.
- No flicker and stroboscopic effect for better visual comfort.
- Absence of electromagnetic interference.
- Quiet operation.

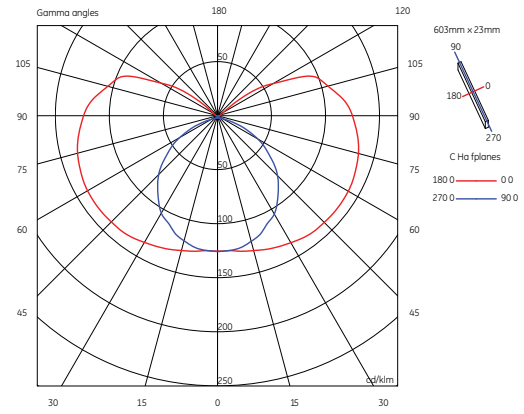
Dimensions (mm)



Type	Dimension (mm)		
	L	A	H
8W	342	22	42
14W	602	22	42
28W	1202	22	42

Photometric data

MINISTYLO 14W



MINI STYLO with electronic ballast

CEI 34.21 / EN 60598-1 - 230V/50Hz - Class II - IP40 - IK04 
Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
MINI-STYLO 1x8W WH EB	T5 8W 840	0.40	6	88759
14W				
MINI-STYLO 1x14W WH EB	F14W/T5/840	0.55	6	88760
28W				
MINI-STYLO 1x28W WH EB	F28W/T5/840	0.80	6	88761

Colour: WH - white
Ballast: EB - electronic



BODY
BLACK, WHITE

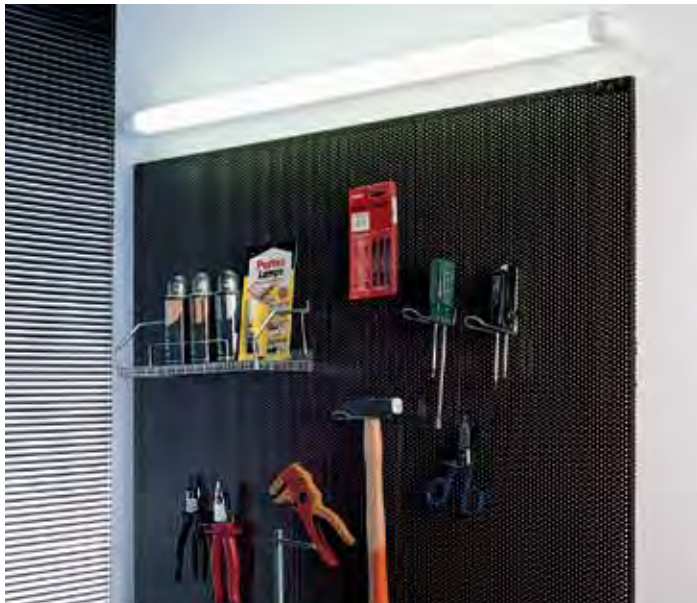
DIFFUSER
PRISMATIC TRANSPARENT

IP40

IP40

IK02

0.7-2 KG



Application

Wall & ceiling luminaire. Ideal for domestic and professional applications, hotels, etc. Smaller fluorescent fittings for lighting kitchens, under-counters, shelves, bookcases, display cabinets, etc. All models have diffuser and switch.

Technical specification

Body

Cold-rolled, phosphate white or black epoxy polyester powder coated steel sheet (thickness: 5/10mm). The cover snaps to the body.

Colour: white.

Diffuser

Impact-resistant polycarbonate with transparent, longitudinal prismatic internal finish. It snaps to the cover.

Lamp holder end caps and end-caps cover

Impact-resistant polycarbonate; caps are snapped to the body.

Power supply

- Magnetic ballast (low-loss): for 1x8W, 1x13W, 1x15W, 1x18W, 1x30W, 1x36W, 1x58W.
- Electronic ballast: for 1x18W, 1x30W, 1x36W, 1x58W.

Lamp

Luminaire complete with linear fluorescent lamp:

- 8W, 13W – T5 Miniature 2700K
- 15W, 18W, 30W, 36W, 58W – T8 Polylux triphosphor 4000K.

Cable connection

RoHS main cables. Suitable for domestic plug socket and terminal blocks. Connection cables are supplied.

Installation/mounting

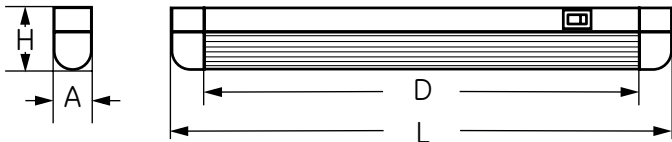
Suitable for surface vertical or horizontal mounting surface for interior use. The body is fixed onto the mounting surface via adjustable plastic rapid kit (horizontal or vertical). Main connection via domestic plug socket or connecting block.

STYLO Electronic

Benefits

- Immediate on.
- Lower wattage than standard magnetic control gear allows up to 20% energy saving.
- Lower heat emission.
- No flicker and stroboscopic effect for better visual comfort.
- Absence of electromagnetic interference.
- Quiet operation.

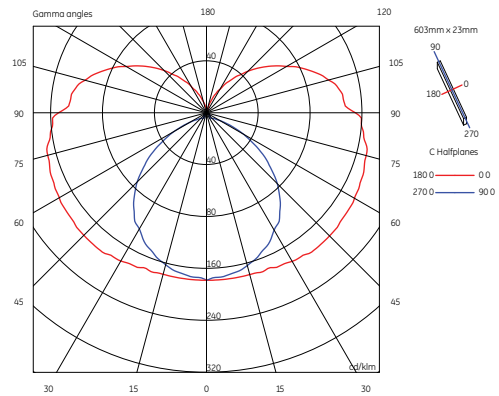
Dimensions (mm)



Type	Dimension (mm)			
	L	A	D	H
8W	336	37	320	54
13W	563	37	550	54
15W	485	37	330	64
18W	637	37	475	64
30W	942	37	500	64
36W	1246	37	800	64
58W	1546	37	800	64

Photometric data

STYLO 18W



STYLO with electronic ballast

CEI 34.21 / EN 60598-1 - 230V/50Hz - Class II - IP40 - IK02 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
STYLO 1x18W WH EB HPF	F18/840	1.30	6	43541
30W				
STYLO 1x30W WH EB HPF	F30/840	1.60	6	43551
36W				
STYLO 1x36W WH EB HPF	F36/840	1.93	6	43558
58W				
STYLO 1x58W WH EB HPF	F58/840	2.07	6	43578

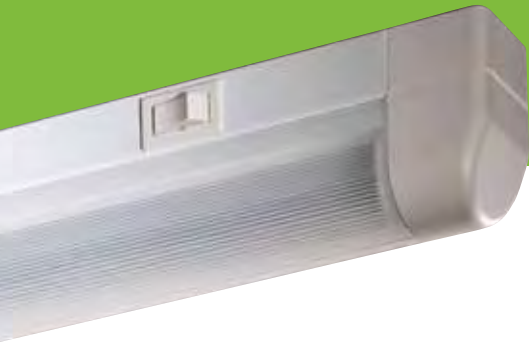
Colour: WH - white
Ballast: HPF - rephased

STYLO with electromagnetic ballast

CEI 34.21 / EN 60598-1 - 230V/50Hz - Class II - IP54 - IK02 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
STYLO 1x8W WH LPF	F8W/T5/827	0.70	6	43527
13W				
STYLO 1x13W WH L LPF	F13W/T5/827	0.90	6	43531
15W				
STYLO 1x15W WH L LPF	F15W/840	1.10	6	43534
18W				
STYLO 1x18W WH L LPF	F18W/840	1.30	6	43546
30W				
STYLO 1x30W WH L LPF	F30W/840	1.60	6	43554
36W				
STYLO 1x36W WH L LPF	F36W/840	1.93	6	43563
58W				
STYLO 1x58W WH L LPF	F58W/840	2.07	6	43582

Colour: WH - white
Ballast: HPF - rephased



BODY
WHITE

DIFFUSER
PRISMATIC TRANSPARENT

IP40

IP40

IK02

0.7-2 KG



Application

Small fluorescent fittings for lighting under counters, kitchens, shelves, bookcases, display cabinets, etc. All models have diffuser and switch. 7 different lengths and wattages available.

Technical specification

Body

Cold-rolled, phosphate white or black epoxy polyester powder coated steel sheet (thickness: 0.5mm). The cover snaps to the body. Colour: white.

Diffuser

Impact-resistant polycarbonate with transparent, longitudinal prismatic internal finish.

Optics

Reflector: metal reflector. High reflectance, electric-coated, white, sheet metal (DC01), colour code RAL 9003.

Power supply

- Magnetic ballast (low-loss): 1x8W, 1x13W, 1x15W, 1x18W, 1x30W, 1x36W, 1x58W
- Electronic ballast: 1x18W, 1x30W, 1x36W, 1x58W

Lamp

Luminaire complete with linear fluorescent lamp:

- 8W, 13W – T5 Miniature 2700K
- 15W, 18W, 30W, 36W, 58W – T8 Polylux XLR™ 3000K.

Cable connection

RoHS main cables. Suitable for domestic plug socket and terminal blocks. Connection cables are supplied.

Installation/mounting

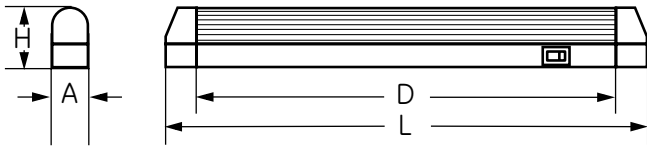
Suitable for surface vertical or horizontal mounting surface for interior use. The body is fixed onto the mounting surface via adjustable plastic rapid kit (horizontal or vertical). Main connection via domestic plug socket or connecting block.

EUROSTYLO Electronic

Benefits

- Immediate on.
- Lower wattage than standard magnetic control gear allows up to 20% energy saving.
- Lower heat emission.
- No flicker and stroboscopic effect for better visual comfort.
- Absence of electromagnetic interference.
- Quiet operation.

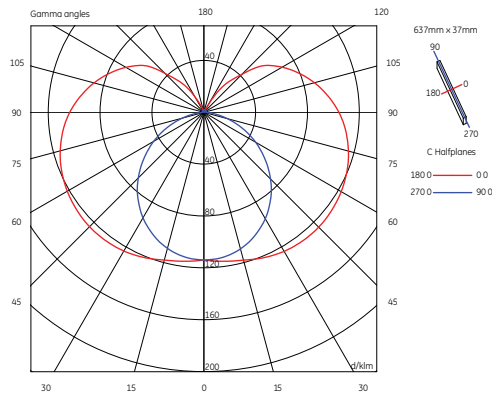
Dimensions (mm)



Type	Dimension (mm)			
	L	A	D	H
8W	336	37	320	54
13W	563	37	550	54
15W	485	37	330	64
18W	637	37	475	64
30W	942	37	500	64
36W	1246	37	800	64
58W	1546	37	800	64

Photometric data

EUROSTYLO 18W



EUROSTYLO with electronic ballast

CEI 34.21 / EN 60598-1 – 230-240V/50-60Hz – Class II – IP40 – IK02 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
18W				
EUROSTYLO 18W WH EB	F18W/T8/830/POLYLUX XLR	1.30	6	43408
30W				
EUROSTYLO 30W WH EB	F30W/T8/830/POLYLUX XLR	1.60	6	43416
36W				
EUROSTYLO 36W WH EB	F36W/T8/830/POLYLUX XLR	1.93	6	43421
58W				
EUROSTYLO 58W WH EB	F58W/T8/830/POLYLUX XLR	2.07	6	43426

Colour: WH – white
Ballast: EB – electronic

EUROSTYLO with electromagnetic ballast

CEI 34.21 / EN 60598-1 – 230V/50Hz – Class II – IP40 – IK02 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
EUROSTYLO 8W WH L LPF	F8W/T5/827 MINIATURE	0.70	6	43388
13W				
EUROSTYLO 13W WH L LPF	F13W/T5/827 MINIATURE	0.90	6	43402
15W				
EUROSTYLO 15W WH L LPF	F15W/T8/830/POLYLUX XLR	1.10	6	43405
18W				
EUROSTYLO 18W WH L LPF	F18W/T8/830/POLYLUX XLR	1.30	6	43411
30W				
EUROSTYLO 30W WH L LPF	F30W/T8/830/POLYLUX XLR	1.60	6	43419
36W				
EUROSTYLO 36W WH L LPF	F36W/T8/830/POLYLUX XLR	1.90	6	43422
58W				
EUROSTYLO 58W WH L LPF	F58W/T8/830/POLYLUX XLR	2.07	6	43427

Colour: WH – white
Ballast: LPF – non rephased



BODY
WHITE

DIFFUSER
PRISMATIC TRANSPARENT

IP40

IP40

IK04

0.64-0.68 KG



Application

Shallow housing ideal for lighting under-counters, kitchens, shelves, bookcases, display cabinets, etc.

Technical specification

Fittings with 8W and 13W fluorescent fittings. Extremely slim (32mm). All fittings have 33 COOL WHITE 4000K lamps.

Diffuser

Polycarbonate; longitudinal prismatic internal finish. Snaps to the body.

Power Supply

- Magnetic ballast (low-loss): 1x8W, 1x13W
- Electronic ballast: 1x8W, 1x13W

Lamp

Luminaire complete with 4000K T5 miniature linear fluorescent lamp.

Cable connection

RoHS main cables. Suitable for domestic plug socket and terminal blocks. Connection cables are supplied.

Installation/mounting

Suitable for surface vertical or horizontal mounting surface for interior use. The body is fixed onto the mounting surface via adjustable plastic rapid kit (horizontal or vertical). Main connection via domestic plug socket or connecting block.

FLAT Electronic

Benefits

- Immediate on.
- Lower wattage than standard magnetic control gear allows up to 20% energy saving.
- Lower heat emission.
- No flicker and stroboscopic effect for better visual comfort.
- Absence of electromagnetic interference.
- Quiet operation.

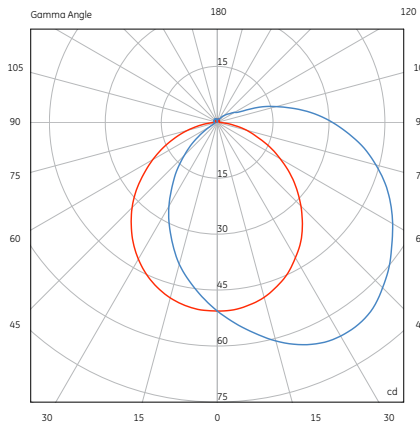
Dimensions (mm)



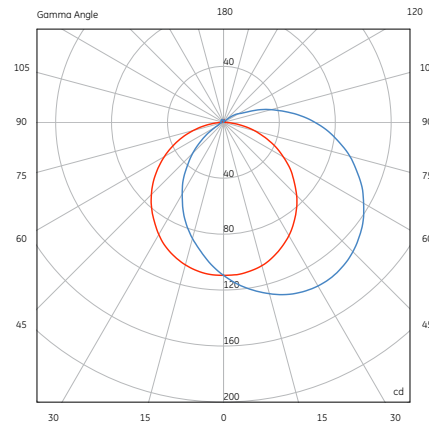
Type	Dimension (mm)			
	L	A	D	H
8W	324	70	260	32
13W	552	70	450	32

Photometric data

FLAT 8W



FLAT 13W



FLAT with electronic ballast

CEI 34.21 / EN 60598-1 - 230-240V/50-60Hz - Class II - IP40 - IK04 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
FLAT 8W EB L	F8W/T5/33MINIATURE	0.64	6	44271
13W				
FLAT 13W EB L	F13W/T5/33MINIATURE	0.64	6	44272

EB - electronic ballast
L - non rephased

FLAT with electromagnetic ballast

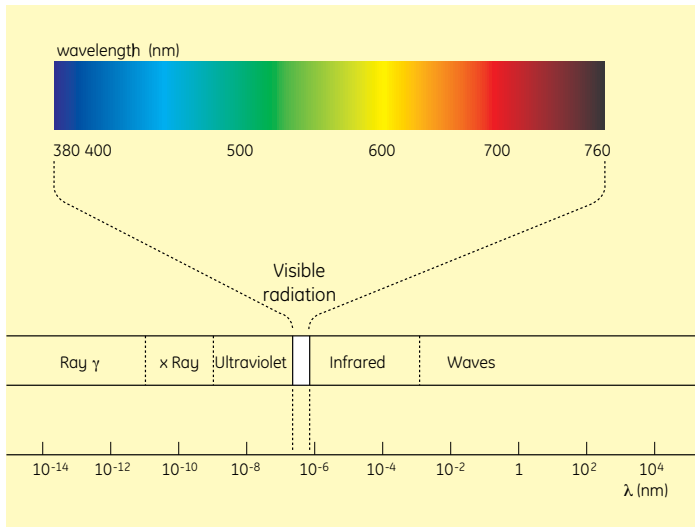
CEI 34.21 / EN 60598-1 - 230V/50Hz - Class II - IP54 - IK04 Luminaire complete with lamp

Description	Lamp	Weight (kg)	Pack qty	Product code
8W				
FLAT 8W H	F8W/T5/33MINIATURE	0.68	6	44186
13W				
FLAT13W H	F13W/T5//33MINIATURE	0.64	6	44188

H - rephased

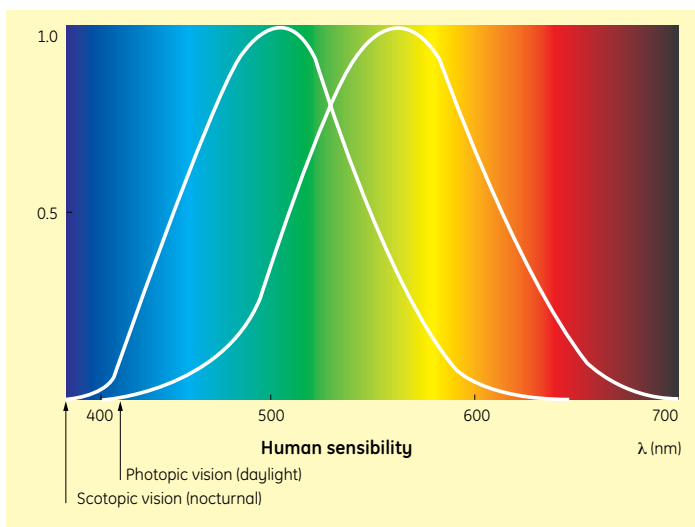
Light

When light enters the human eye and falls on the retina, it sets off photochemical and neurological processes that result in seeing. Light is made of electromagnetic waves. Given that it is an undulating phenomenon, the electromagnetic radiation is characterized by two physical dimensions: wavelength and frequency. Wavelength, usually indicated with the Greek letter λ , is the distance, travelled by the wave during a complete oscillation cycle. Frequency, which is symbolized by the Greek letter ν , is the number of complete oscillation cycles which occur every second. WAVELENGTH λ and FREQUENCY f create colours. The equation: $v = \lambda f$ represents the SPEED OF LIGHT (300,000 km/s).



Spectral Sensitivity Curves of the Human Eye

The human visual system responds to the very small part of the electromagnetic spectrum that lies between 380 and 780 nanometers (1nm = 1/1,000,000 mm). The maximum sensitivity of the human eye occurs at 550 nm (yellow-green colour) – conventional value: 1. It quickly decays to ultraviolet and infrared. Very briefly and without entering into details, the combination of all visible radiations causes the “feeling” of white light.



Luminous flux (ϕ)

The rate at which light is emitted by a lamp or received by a surface. The quantity is derived from radiant flux by evaluating radiation in accordance to the spectral sensitivity of the standard human eye as defined by CIE.

Luminous efficiency (v)

The ratio of radiant flux weighted according to the CIE standard photometric observer to the corresponding radiant flux at a given wavelength.

Luminous efficacy (η)

The ratio of luminous flux emitted by a lamp to the power consumed by the lamp measured in lumens/watt. When the power consumed by control gear is taken into account it is described as lamp circuit luminous efficacy and expressed in lumens/circuit watt.

Illuminance (E)

The luminous flux density on a surface, usually the working plane. Measured in lumens/m² called lux.

Luminous intensity (I)

The amount of light emitted in a particular direction. It is the luminous flux emitted in a very narrow cone divided by the solid angle of that cone and is measured in candelas (cd).

Correlated Colour Temperature (K)

The temperature of a perfect black body radiator whose chromaticity is closest to that of the light under consideration. A traditional incandescent light source's colour temperature is determined by comparing its hue with an increasingly heated black-body radiator. When the hue of the lamp matches the black-body radiator then that lamp is rated with the temperature in Kelvin of the black-body radiator. Kelvin degree measures the absolute temperature °C+274.

Luminance (L)

It is the luminous intensity emitted by a surface. Mathematically, it is the ratio to the luminous intensity and the area of the source surface perpendicular to the given direction. The unit of luminance is cd/m².

Examples of luminance:

- Candle flame 5,000 cd/m²
- Fluorescent lamps 8,000 cd/m²
- Low pressure sodium vapour lamps 100,000 cd/m²
- Mercury vapour lamps 150,000 cd/m²
- Incandescent lamps 6,000,000 cd/m²
- Sun 1,550,000,000 cd/m²

Utilization Factor (UF)

Is the proportion (U) of luminous flux (F) emitted by lamps which reach working plane.
Normally the area of the working plane (S) and the illuminance (E) are known so the utilization factor can be used to determine the lamp flux (F) required.

It is the calculated ratio of the effective lumens that light an area to the total available lumens from the lamp.

$$E = \frac{UF}{S}$$

Where:

- E = average illuminance (lux)
- F = useful Luminous flux (lumens)
- S = area being lit in square metres

The only unknown value is (percentage of the lamp lumens that fall within the area being lit) being E established through the human eye fatigue.

UF = U x F
U (less than 1) is the UTILIZATION FACTOR.

Consequently:

$$E = U \times F/S$$

$$F = E \times S/U$$

U factor is determined considering:

- Photometric and physical characteristics of the fitting
- Reflective values of the surfaces
- Room cavity ratio - ratio of horizontal to vertical room surface areas;

$$K = \frac{A \times B}{Hu (A + B)}$$

Where:

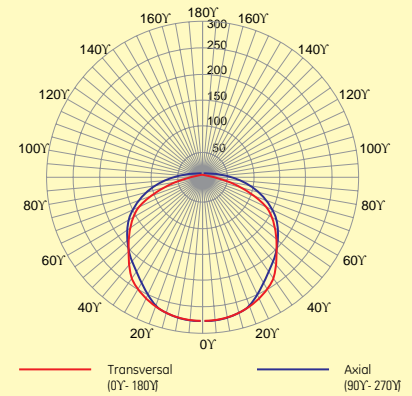
- A and B are the length and width of the room
 - Hu is the height of the luminaire above the work plane.
- Utilization factors are issued as a table for each type of luminaire U is determined by K and effective ceiling/walls reflectance.

Once F is known, it is easy to calculate the number of fittings to be installed:

$$N = F/IF$$

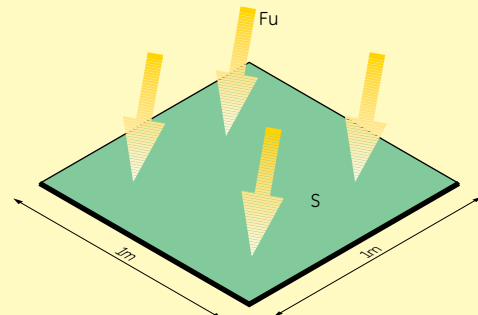
IF is the nominal lamp flux per luminaire.

Polar diagram of intensity



ANGLE	ILLUMINANCE (cd/1000 lm)		UTILIZATION Factor - UF Floor											
	TRANSVERSAL C=0°	AXIAL C=180°	Reflection factor			Room ratio								
			Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0	221	221	0.70	0.50	0.10	0.422	0.477	0.519	0.547	0.583	0.605	0.621	0.640	0.653
5	220	220		0.10		0.383	0.440	0.485	0.516	0.556	0.582	0.600	0.624	0.639
10	224	224	0.50	0.50	0.10	0.415	0.468	0.509	0.536	0.571	0.593	0.608	0.627	0.639
15	236	236		0.30		0.380	0.435	0.479	0.509	0.548	0.573	0.590	0.613	0.627
20	267	267		0.10		0.353	0.409	0.455	0.487	0.529	0.556	0.575	0.600	0.616
25	306	306	0.30	0.50	0.10	0.408	0.460	0.499	0.526	0.560	0.581	0.596	0.614	0.626
30	344	344		0.30		0.376	0.430	0.473	0.502	0.540	0.564	0.581	0.603	0.616
35	359	359		0.10		0.352	0.407	0.452	0.483	0.523	0.549	0.568	0.592	0.607
40	340	340	0.70	0.50	0.20	0.434	0.493	0.539	0.570	0.611	0.638	0.657	0.680	0.696
45	282	282		0.30		0.390	0.450	0.499	0.533	0.579	0.609	0.630	0.658	0.677
50	174	174		0.10		0.358	0.418	0.467	0.503	0.552	0.584	0.608	0.639	0.661
55	76	76	0.50	0.50	0.20	0.424	0.480	0.524	0.553	0.592	0.616	0.633	0.655	0.669
60	30	30		0.30		0.385	0.443	0.489	0.521	0.564	0.592	0.611	0.637	0.653
65	16	16		0.10		0.356	0.414	0.462	0.495	0.541	0.571	0.592	0.621	0.640
70	10	10	0.30	0.50	0.20	0.415	0.469	0.510	0.538	0.574	0.596	0.612	0.631	0.644
75	7	7		0.30		0.380	0.436	0.480	0.511	0.551	0.576	0.594	0.617	0.632
80	5	5		0.10		0.354	0.410	0.456	0.488	0.531	0.558	0.578	0.604	0.620

Illuminance (E) on surface (S) with Fu flux



Point by point calculation

Enables calculation of direct illuminance at any given point from one or more light sources:

$$E = I/d^2$$

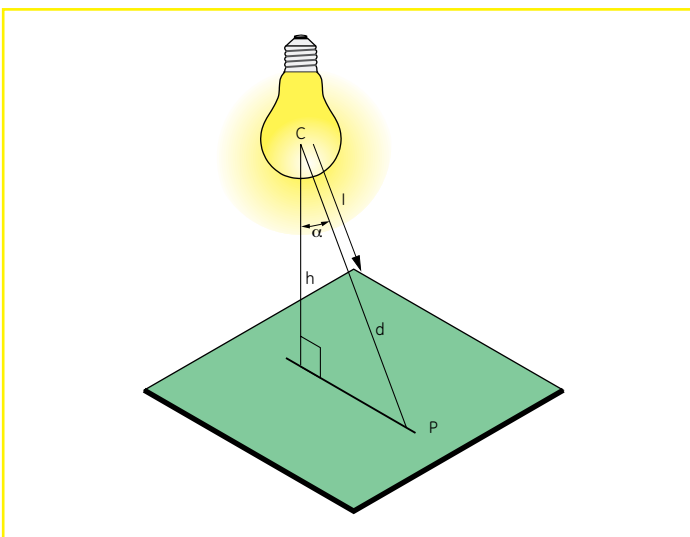
Where:

I is the intensity in the given direction (straight line connecting Point C and Point P)
d is the distance between Point P and Point C.
E is the illuminance directly incident at point P.

Mostly a HORIZONTAL (Eh) or VERTICAL (Ev) ILLUMINANCE is calculated with the following formulae.

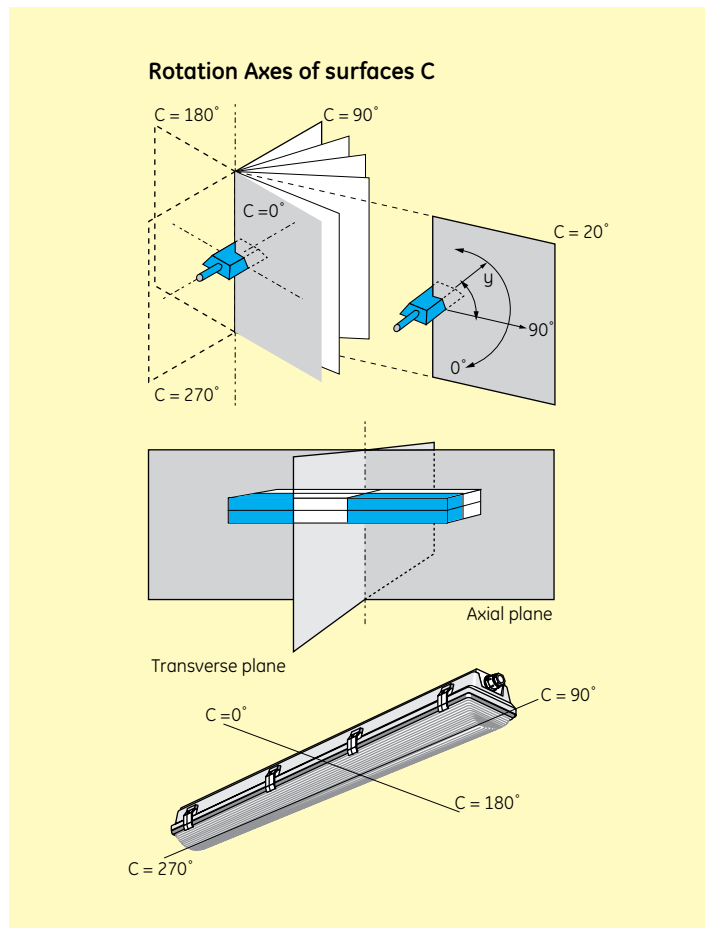
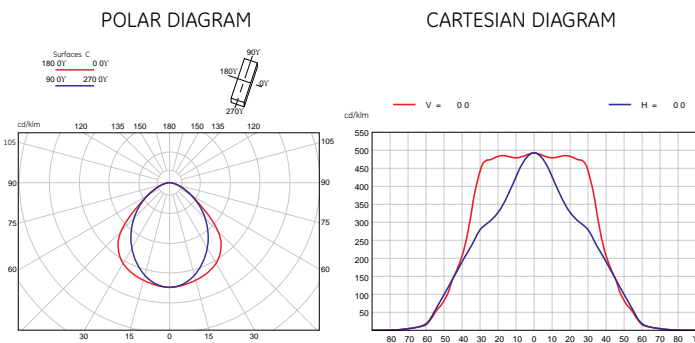
$$Eh = (I / d^2) \cos \alpha \text{ or also } Eh = (I / h^2) \cos^3 \alpha$$

$$Ev = (I / d^2) \sin \alpha \text{ or also } Ev = (I / h^2) \cos^2 \alpha \sin \alpha$$



Photometric solid and photometric curves

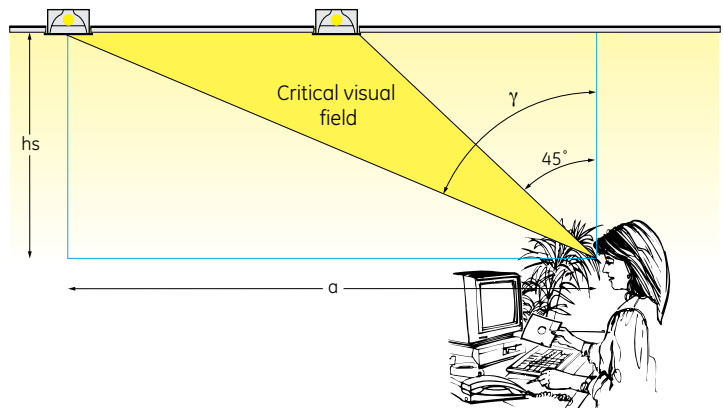
The total measure of luminous intensities emitted by a luminaire in all directions form the "photometric solid" and photometric curves. The photometric solid is a geometric representation of vectors generating from a fitting. They represent intensities in different directions. Usually not all information regarding the photometric solid is given, but only the two main vertical planes normal to each other that cross the optical centre of the luminaire. Luminous intensity values represented in polar coordinates on a plane create a "photometric curve". To obtain the actual value, you should multiply the value shown on the diagram by the actual flux of the used lamp in kilolumens. Fittings for indoor use and street lanterns require C - γ coordinate system and Polar photometric Diagrams providing the luminous intensity in C = 0° - 180° (transverse) and C = 90° - 270° (axial). Luminous Intensity corresponds to 1,000 lumens. Cartesian diagrams are being used with projectors in a B - β, (or V-H) coordinate system. The diagram gives curves for the luminous intensity in cd/1000 lm in two mutually perpendicular planes that are transverse and axial to the light source.



Luminance curve or direct glare rating

Glare results from high luminance or insufficient shielding in the field of view, or from reflecting areas of high luminance. The luminance limiting curves cover a stepped scale of glare ratings, representing quality classes A to E, and various values of standard service illuminance. The required luminance limitation depends on the type and the orientation of the luminaire, the shielding angle, the glare rating or quality class, and the value of the standard service illuminance.

Two sets of luminance limiting curves; one for the transverse orientation and the other for the longitudinal orientation, are derived. One pair of luminance curves is given for each combination of quality class and working plane illuminance. If the luminaire luminance does not exceed the glare, limiting curve in the critical radiant zone limitation for the illuminance considered, it will meet the criterion of the quality class concerned. When the luminaires are mounted parallel to the longitudinal axis of the interior, the luminance distribution of the luminaire in this plane must be used for checking the glare limitation in the lengthwise direction of the room, and the luminance distribution in transverse plane for checking the glare limitation in the direction across the room.

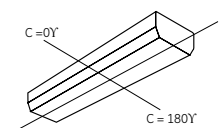
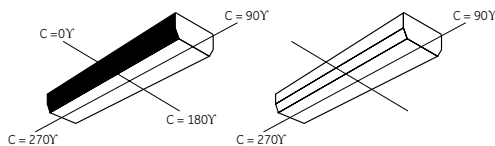
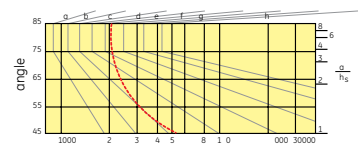
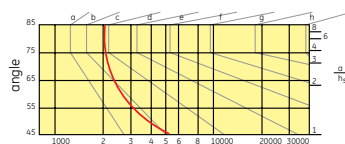


LUMINANCE CURVE "A"

Class	2000	1000	500	>300
A	2000	1000	500	>300
B	2000	1000	500	>300
C	2000	1000	500	>300
D	2000	1000	500	>300
E	2000	1000	500	>300

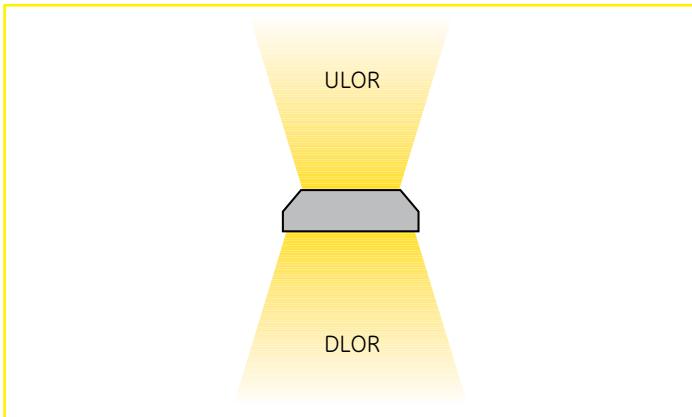
LUMINANCE CURVE "B"

Classe	2000	1000	500	>300
A	2000	1000	500	>300
B	2000	1000	500	>300
C	2000	1000	500	>300
D	2000	1000	500	>300
E	2000	1000	500	>300



Light Output Ratio (LOR)

The ratio of the total light output of a luminaire, compared with total lamp light output. It is divided into an Upward Light Output Ratio (ULOR) and a Downward Light Output Ratio (DLOR).



Spacing to Height Ratio (SHR)

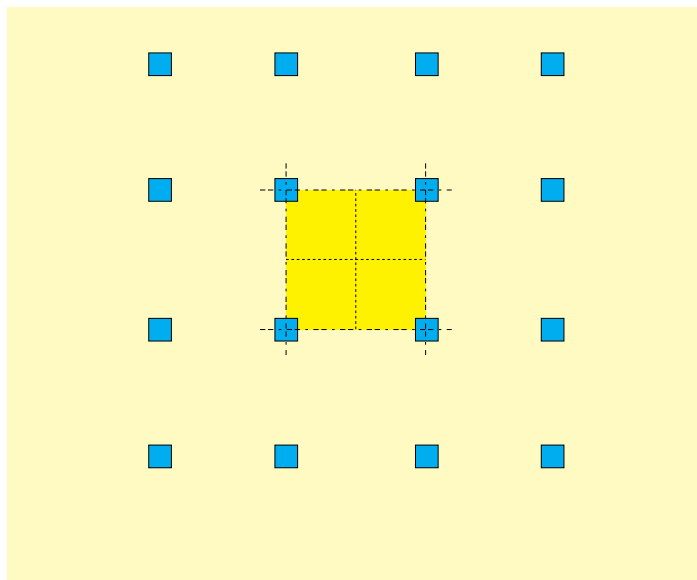
The ratio of the distance between luminaire centres in relation to their height above the working plane.

Unified Glare Rating (UGR)

The UGR is an index on an international standard developed by the CIE (Commission International de l'Eclairage) for the determination glare direct relation to each specific application. Through this index assesses the glare of harassing type in a certain environment. Introduced by the standard for lighting interior UNI EN 12464-1 class to replace the quality of the old G UNI 10380, which took the curves of luminance or limit diagram Sollner Dell'UGR. The value depends on the provision of lights, from the nature of the environment (size, indices of reflection) and the observation point of the operators who will be within the area in question. Oscillates between values of 10 (no glare) to 30 (significant physiological glare) as a scale of 3 units (10,13,16,19,22,25 and 28). Of course, most will be low value and lower the direct glare.

Maximum Spacing to Height Ratio (SHR_{MAX})

The SHR for a four-by-four square array of luminaires that will achieve a ratio of min/max direct illuminance of at least 0.7 over the central region between the four innermost luminaires as shown below.



Colour Rendering Index (CRI)

The CRI is a relative scale (ranging from 0 - 100) indicating how perceived colours match actual colours. It measures the degree that perceived colours of objects, illuminated by a given light source, conform to the colours of those same objects when they are lit by a reference standard light source. The higher the colour rendering index, the less colour shift or distortion occurs. The CRI number does not indicate which colours will shift or by how much; it is rather an indication of the average shift of eight standard colors. Two different light sources may have identical CRI values, but colours may appear quite different under these two sources.

The 5 CIE groups are:

- | | |
|----|-------------------|
| 1) | 1A: CRI > 90 |
| 2) | 1B: CRI > 80 < 90 |
| 3) | 2: CRI > 60 < 80 |
| 4) | 3: CRI > 40 < 60 |
| 5) | 4: CRI < 40 |

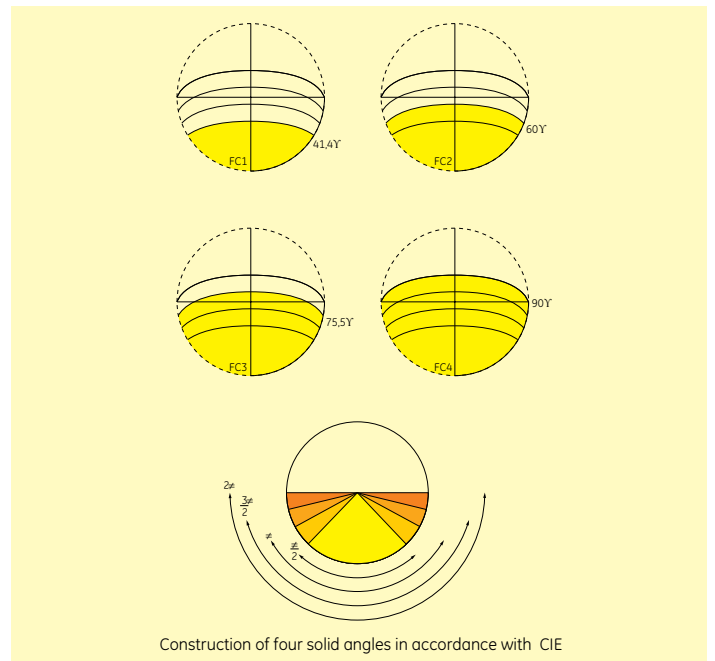
CIE Flux Code

5 flux values that feature the fitting. Values are the following:

- N1 = FC1/FC4
- N2 = FC2/FC4
- N3 = FC3/FC4
- N4 = FC4/F
- N5 = L.O.R. combined with:

- FC1 = in areas with height 0° to 41.4° (solid angle 0 - $\Pi/2$)
- FC2 = in areas with height 0° to 60° (solid angle 0 - Π)
- FC3 = in areas with height 0° to 75.5° (solid angle 0 - $3/2 \Pi$)
- FC4 = in areas with height 0° to 90° (solid angle 0 - 2Π)
- F = total flux with height 0° to 180° (solid angle 0 - 4Π)

All 5 N_x values are written with 2 decimals and without period:
i.e.: 23 35 70 75 50.



Regulations

Resistance to flame and inflammation (IEC EN 60598-1 Sect. 13.3)

Heat or ignition is a serious problem for all lighting fittings. In Europe, flammability is tested using Glow Wire Tests according to IEC 695-2-1 and/or the Needle Flame test according to IEC 695-2-2. Mounting methods, temperatures, characteristics of products and precautions are all stated in the aforementioned IEC regulations.

Temperature Test

Parts of insulating materials have to pass the needle flame test. It simulates the effect of small flames, which may result from faulty conditions within the equipment, in order to assess the fire hazard.

Needleflame Test

A burner as specified in IEC 695-2-2 is used. The section of insulating material at highest flammability risk is exposed to the flame. After removal of flame the sample shall not burn or glow longer than 30 s (V2 class as per UL940) and droppings shall never ignite adjacent parts or the tissue paper placed 200 mm below specimen.

Glow Wire Test

Parts of insulating materials that protect against electric shock and hold in position SELV parts must pass the Glow Wire Test (temperature: 650°C ; IEC 695-2-1) in accordance with domestic laws.

After removal of the glow wire the sample shall not burn or glow longer than 30s and droppings shall never ignite the tissue paper placed 200 mm below specimen.

Electric shock protection (IEC EN 60598-1 sect. 2.2)

Fittings are listed as per electric shock protection class.

Class 0

Luminaires and operating devices of protection class 0 provide protection against electrical shock solely using the base insulation and the safe connection of all exposed conductive parts to an earth conductor. Thus, should the base insulation fail, no exposed conductive parts can become live.

Class I

Luminaires and operating devices of protection class I provide protection against electrical shock using both the base insulation and an additional or reinforced insulation. Protection class I products feature a connection to an earthed conductor, and the degree of protection they offer depends on the mounting conditions.

Class II

Luminaires and operating devices of protection class II provide protection against electrical shock using both the base insulation and an additional or reinforced insulation. Protection class II products neither feature a connection to an earthed conductor, nor does the degree of protection they offer depend on the mounting conditions.

Class III

Protection class III luminaires provide protection against electrical shock by using Safety Extra Low Voltage (SELV). Luminaires of protection class III are not permitted to generate higher voltages than the Safety Extra Low Voltage (SELV).



Protection Class I



Protection Class II



Protection Class III

“F” Mark (IEC EN 60598-1 Annex N)

The fixture can be mounted on normally flammable surfaces. Normally flammable surfaces are those made by wood or wood-based materials over 2mm in thickness.



Normative

IP protection degrees (IEC EN 60598-1 sect. 9/Annex J)

1 st numeral	PROTECTION AGAINST CONTACT WITH EXTERNAL SOLID BODIES	2 nd numeral	PROTECTION AGAINST PENETRATION OF LIQUIDS
0	non protected	0	non protected
1	Protection against solid objects exceeding 50 mm in diameter. Human hands, feet, etc - also included.	1	Protection against vertical fall of water drops.
2	Protection against solid objects exceeding 12mm in diameter. Fingers or similar objects not exceeding 80mm length also included.	2	Protection against vertical water drops when enclosure tilted with inclination max of 15° from its normal position.
3	Protection against solid objects of diameter or thickness exceeding 2.5mm. Tools and similar objects also included.	3	Protection against rain; Water falling as spray up to inclination max of 60° from the vertical shall have no harmful effect.
4	Protection against solid objects exceeding 1mm in diameter. Tools and similar objects also included.	4	Protection against the water splashed against the enclosure coming from any direction.
5	Partial protection against dust. The ingress of dust shall not interfere with satisfactory operation of the equipment.	5	Protection against water projected by a nozzle against the enclosure coming from any direction.
6	No ingress of dust.	6	Water from heavy seas or water projected in powerful jets shall not enter the luminaire in harmful quantities.
		7	Ingress of water in a harmful quantity shall not be possible when the luminaire is immersed in water under defined condition of pressure and time.
		8	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. Normally this will mean the equipment is hermetically sealed.

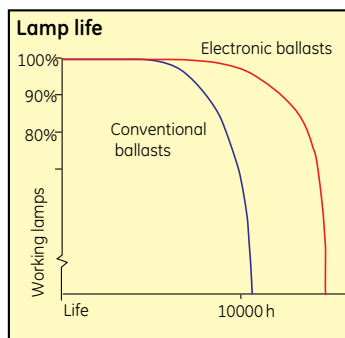
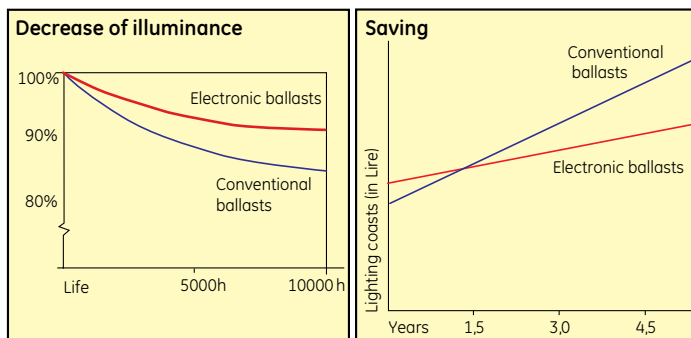
Fluorescent fittings featuring electronic ballasts.

1. 22% energy saving
2. No RF or stroboscopic effect
3. Higher light diffusion
4. Power factor higher than 0.95
5. Instant-Start operation
6. No flickering
7. No cycling (automatic off)
8. Low starting temperature
9. Quiet operation

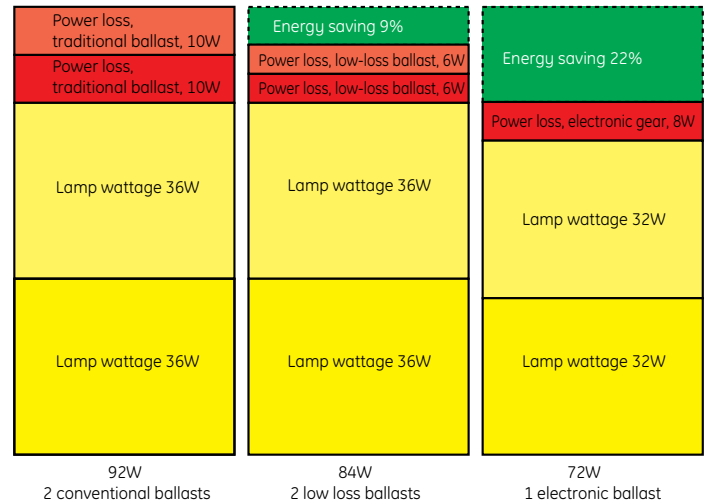
High frequency (20-50KHz) fluorescent luminaires feature electronic ballasts. The traditional electromagnetic ballast, starter, starter housing and power factor correction is replaced with a one-piece unit. No external power factor correction is required.

Other benefits of electronic ballasts are:

- **High frequency.** Higher luminous efficacy in fluorescent lamps (over 10% than traditional ballast) with a consequential reduction of power for the same light output:
- **Reduced costs** for lamp replacement. Thanks to the high frequency, the average lamp life is about 50% longer (depending on types of fitting and use).
- **Fittings costs can be amortized** in less than 18 months. The buying cost is higher than fittings with other types of ballast but energy and maintenance costs are much lower.
- **Reduced maintenance costs.** Time spent for maintenance is reduced thanks to the absence of starter and capacitor. Lamp life is longer than in other fittings.
- **Energy saving** electronic ballasts require less power and energy losses are only 8-10%.
- **No stroboscopic effect** thanks to high frequency
- **Instant-Start operation**
- **No flickering**
- **Improved lumen maintenance.** Reduced lamp load causes less end blackening from cathodes and consequent loss of light.
- **Quiet operation.** Because electronic ballasts function at high frequency there is less noise emitted.



Wattage of a twin lamp fitting (2x36W)



Fittings with EES emergency system

1. Permanent functioning (otherwise specified)
2. A kit with electronic charger, inverter and batteries
3. LED indicator
4. A switch activates permanent inhibition (out of service)
5. Emergency one hour duration
6. Luminous flux is as per enclosed illustrative sheet

Emergency Lighting is defined as the lighting that comes on when the main power supply fails.

Back-up central supply or self contained batteries. Emergency lighting must guarantee the safety of people by illuminating the exits, obstacles, high-risk areas, emergency doors, emergency equipment, etc. Complete legislation about health and safety of workers at workplace can be found in the Legislative Directive 626/94. With regard of planning, production and functioning of lighting systems the aforementioned Legislative Directive states:

- "Exits and emergency doors must be provided with emergency signs in good conditions and accurately displayed" (art. 33 1.10)
- Exits and emergency doors that require lighting must have emergency lighting with bright luminance turned on as soon as the main supply fails. (art. 33 1.11)
- Workplaces dangerous to employees when the main supply fails must have emergency lighting with bright luminance. (art. 33 8.3)

GE Emergency Lighting is divided into:

- Maintained Emergency Lighting.** Emergency lamps are on even when emergency lighting is not required. A combined emergency lighting fittings always has one or more lamps on the main power supply.
- Non-maintained Emergency Lighting.** Emergency lamps are lit only when main power supply fails.

IMPORTANT: please read instruction carefully for mounting and wire connections.

ALGLAS: pure glass finish on steel reflectors

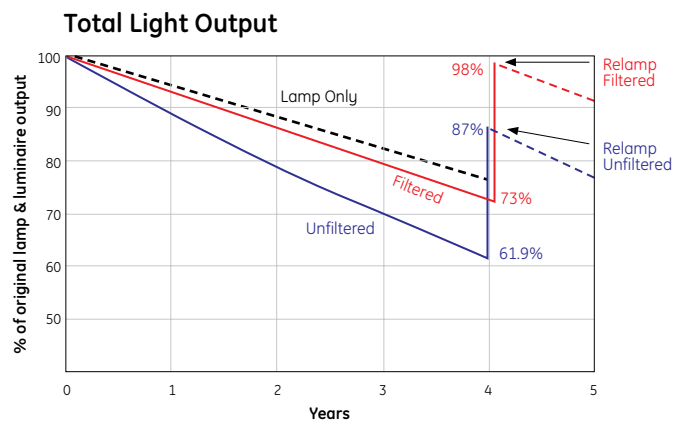
- **Chemical Composition:** The ALGLASS coating is made of 95% silicate against 60-80% of sodium or boric glass). High quality that guarantees higher light reflectivity.
- **Surface Smoothness:** Prismatic glass surfaces were compared to ALGLAS for smoothness. They revealed significantly more light scattering, rippling and roughness than ALGLAS ones.
- **Coating Continuity:** ALGLAS coating is continuous and pinhole free. Complete immersion of the reflector in the silicate solution insures uniform coating of all surfaces.
- **Maintenance:** ALGLAS finish is smoother than formed glass. Cleaning is with a standard detergent and water.
- **Durability and Safety:** ALGLAS is a chemically inert, high quality glass coating. Has same chemical durability of plate glass.
- **Optical Performance:** better than anodized aluminium thanks to its smoothness, light-reflectivity and mirror-finish coating.
- **Resistance to Corrosive Environments:** outstanding, even with coastal weather characteristics.
- **Resistance to Chemical Attack:** same as borosilicate glass.

ACTIVATED CHARCOAL FILTER: benefits for optical filtering system

A light, thin film of accumulated dirt can cause a significant loss in light output. Even under ideal cleaning conditions and using the best known cleaning materials, contamination on a reflector is extremely difficult to remove once it is "baked on." It is impossible to restore a reflector to its original condition due to permanent damage imparted during cleaning. Laboratory tests indicate that a well-designed luminaire which incorporates an absorptive filter-activated charcoal-helps keep light reduction due to internal contaminants to an average of 1% per year. Conversely, the average, well-designed non-filtered luminaire in service today accumulates contaminants on reflector surfaces that can depreciate light output at a rate in the order of 4-5% per year. Contaminants which affect light control and reduce efficiency, besides dirt particles of varying sizes, are vapours and gases which either corrode the optical control surfaces or deposit films that are subsequently baked on by the lamp heat. Chemical analysis of typical contaminants removed from reflector surfaces under tests included unburned hydrocarbons, nitrogen dioxide and sulphur dioxide, all of which exhibit a tendency to bond to the surface of a specular reflector. This deposit on the reflector surface is the largest contributing factor in the degradation of light output. These vapours however will be absorbed by the activated charcoal, as the optical compartment breathes, thereby reducing their concentration.

The picture shows the effect of a filter on total light output. Lamp lumen depreciation (dotted line) is taken to be approximately 6% per year. Optical assembly depreciation is 5% per year for a non-filtered luminaire versus 1% per year for a filtered luminaire.

Not only does the filtered luminaire deliver more light at the end of a four year period (73% more), but at the time of re-lamping and cleaning the unit is nearly restored to its original condition. The non-filtered luminaire can only recover 87% of its original light output.



Resistance to chemical agents

Resistance to chemical agents for material normally used in waterproof fittings.

Before mounting a fitting, the local environment must be checked for chemical agents that might attack the material making up the fitting: polycarbonate, metacrylate and polyester.

The chemical agents listed in the table below apply where ambient temperature is not above 40°C and where there is no mechanical stress that may cause permanent deformations.

LEGEND:

- R: RESISTANT
- LR: LIMITED RESISTANCE
- NR: NO RESISTANT

The following chemical agents do not represent the whole case-study.

CHEMICAL AGENT

Metacrylate

Polycarbonate

Polyester

Inorganic Acids

Battery acid	R.	R.	R.
Bromic acid	N.R.	N.R.	N.R.
Hydrochloric acid < 20%	R.	R.	R.
Hydrochloric acid > 20%	R.	R.L.	R.
Nitric acid < 10%	R.	R.	R.
Nitric acid > 10% < 20%	R.L.	R.L.	R.L.
Nitric acid > 20%	N.R.	N.R.	N.R.
Hydrogen sulfide	R.	R.	R.
Sulphuric acid < 50%	R.	R.	R.
Sulphuric acid > 50% < 70%	R.L.	R.L.	R.
Sulphuric acid > 70%	N.R.	N.R.	N.R.
Sulphurous acid < 5%	R.L.	N.R.	R.L.

Organic Acid

Acetic acid < 5%	R.L.	R	R
Acetic acid > 5% < 30%	N.R.	R.L.	R
Butyric acid	N.R.	R.L.	R
Citric acid	R.L.	R	R
Lactic acid	R.L.	R	R

Alcohol

Ethanol < 30%	R.	R.	R.
Ethanol concentrated	N.R.	N.R.	N.R.
Methanol	N.R.	N.R.	N.R.
Glycerol	R.	R.L.	R.
Glycol	R.	R.	R.

Base

Ammonia 25%	R.	N.R.	N.R.
Lime	R.	R.L.	R.
Synthetic soap	R.	R.L.	R.
Caustic soda < 2%	R.	N.R.	R.L.
Caustic soda > 2% < 10%	R.	N.R.	N.R.

Gas

Carbon dioxide	R.	R.	R.
Carbon monoxide	R.	R.	R.

Hydrocarbon

Benzol	N.R.	N.R.	N.R.
Diesel fuel grades	R.	R.L.	R.
Petroleum ether	R.	R.L.	R.
Aliphatic hydrocarbon	R.L.	R.	R.L.
Aromatic hydrocarbon	N.R.	N.R.	R.L.

Oil

Aniline	N.R.	N.R.	N.R.
Machine tool oil	N.R.	N.R.	R.
Diesel oil	N.R.	N.R.	R.
Brakes liquid	N.R.	N.R.	N.R.
Fuel oil	N.R.	R.L.	R.
Camphor oil	N.R.	N.R.	N.R.
Sewing machine oil	R.L.	R.	R.
Silicone oil	R.	R.	R.
Paraffin oil	R.L.	R.	R.
Used mineral oil	N.R.	N.R.	R.L.

Aqueous Solutions

Sea water	R.	R.	R.
Hydrogen peroxide < 40%	N.R.	R.L.	N.R.
Hydrogen peroxide > 40%	R.L.	R.L.	N.R.
Metallic salts	R.	R.	R.
Sodium chloride solution	R.	R.	R.

Solvent

Acetone	N.R.	N.R.	N.R.
Ketone	N.R.	N.R.	N.R.
Chlorophenol	N.R.	N.R.	N.R.
Chloroform	N.R.	N.R.	N.R.
Methylene Chloride	N.R.	N.R.	N.R.
1,4-dioxane	N.R.	N.R.	R.
Ether	N.R.	N.R.	R.L.
Ethylacetate	N.R.	N.R.	N.R.
Phenol	N.R.	N.R.	N.R.
Methylketone	N.R.	N.R.	N.R.
Turpentine	R.L.	R.L.	R.
Pyridina	N.R.	N.R.	N.R.
Carbon tetrachloride	N.R.	N.R.	R.
Xylene	N.R.	N.R.	N.R.

Sports Lighting

Amateur sports are growing fast in popularity and people use sport facilities mostly at night. There is a general, growing need for smaller recreational and sports structures. Usually large engineering companies provides professional sports complexes and medium or small construction companies build recreational facilities. Whether for professionals or for amateurs good lighting is essential.

Installation of outdoor lighting

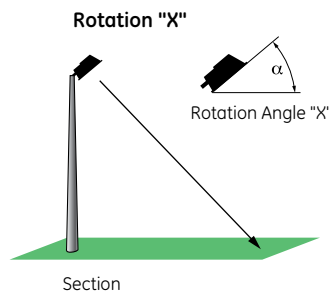
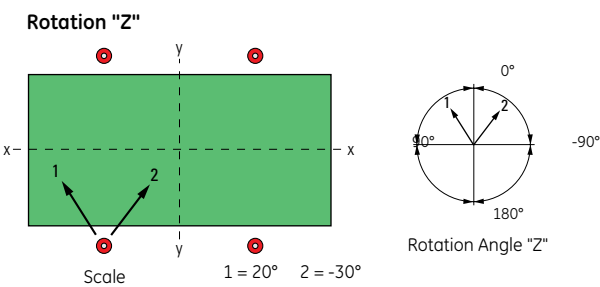
Sports facilities with high density discharge lamps need accessory devices for power supply (ignitors, ballasts, capacitors, etc) with specific installation requirements. Firstly, such devices are to be installed as close as possible to the lamp to avoid voltage drops or cycling. Due to design constraints it is quite impossible to install such auxiliary devices close to the lamps. We can find them on poles or housing towers to light stadiums, in warehouses, parking structures, etc. The maintenance is difficult and it just would not work. The best place for auxiliary devices is at the foot of the fitting body in waterproof boxes for small fittings or power packs in other cases. The only requirement to be respected is the distance between lamp and power supply. Power packs can be entirely steel or combined with fibreglass.

They should provide:

- Proper ventilation to keep the right temperature of ballasts and capacitors. Power suppliers should be located on top to preserve ignitors or capacitors or other sensitive material. A ventilation opening must be provided and protected by metal guard as per specifications. The power pack should be tall rather than wide spread.
- Proper rain protection. The material used should be water-proof.
- Easy access for maintenance personnel
- Special locking protection if power packs are accessible to public.

Best lighting solutions

Depends on the recreational activities and if they are practice or competitive games. The number of fittings required depends on the size of the facility and they should be equally distributed over the playing area. Aiming angles, types of projectors, lamps, columns. Uniformity ratio (E min/med – E min/max), power involved and kind of beam will vary from local sales office. For further help please contact our local sales office.



Lighting projects for sport facilities

Sport facility	Outdoor			Indoor		
	Average horizontal illuminance (lux)			Average horizontal illuminance (lux)		
	1	2	3	1	2	3
	E Min/av.	E Min/av.	E Min/av.	E Min/av.	E Min/av.	E Min/av.
Athletic fields	100 0,4	300 0,5	500 0,5	100 0,4	300 0,5	500 0,5
Baseball infield / outfield	450 / 600 0,6 / 0,7	600 / 900 0,7 / 0,8	1000 / 1200 0,7 / 0,8	- -	- -	- -
Bowling	100 0,3	200 0,4	- -	200 (200) 0,3 (0,4)	300 (300) 0,4 (0,5)	500 (500) 0,5 (0,5)
Riding	100 - 50 0,4 - 0,3	300 0,4	300 0,4	- -	- -	300 0,4
Equestrian sports	100 0,3	200 0,5	- -	100 0,4	200 0,5	- -
Ice sports	100 0,4	300 0,5	500 0,6	200 0,4	500 0,5	1000 0,6 - 0,7
Swimming pools	100 - 200 0,4	200 - 300 0,5	500 0,6	200 0,4	300 0,5	500 0,5
Gyms multipurpose sports halls	200 0,5	200 0,5	300 0,6	300 0,5	300 0,5	500 0,6
Wrestling weights judo boxing	- -	- -	- -	300 0,6	500 0,7	- -
Rugby	100 0,3 - 0,4	300 0,4 - 0,5	500 - 800 0,5 - 0,7	- -	- -	- -
Skiing-bob (values for jumping-hills are in parenthesis)	30 - (300) 0,3 - (0,4)	50 - (300) 0,3 - (0,5)	100 - (500) 0,4 - (0,5)	- -	- -	- -
Squash	- -	- -	- -	200 0,4	300 0,5	400 0,5
Tennis	200 0,4 - 0,5	300 0,5 - 0,6	500 0,6 - 0,7	200 0,5	300 0,6	500 - 700 0,7

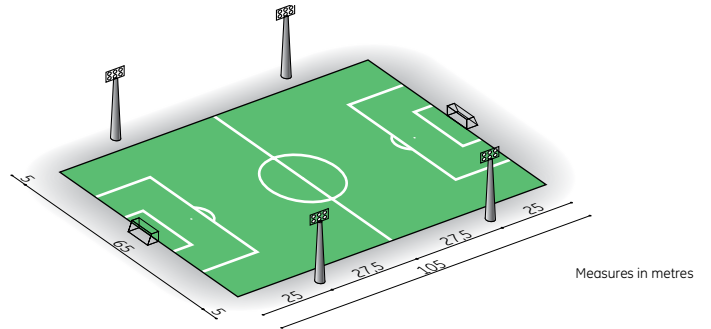
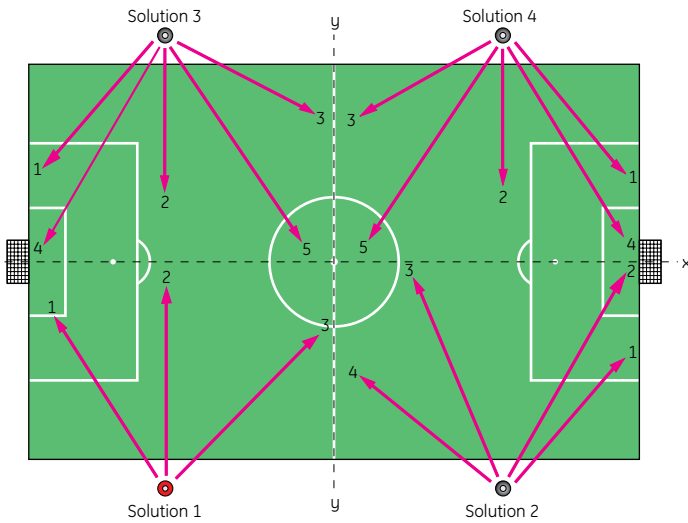
3 = Matches with large spectator attendance
 2 = Matches with small spectator attendance
 1 = Matches without spectators, training sessions

SOCCER FIGC	Number of Spectators		Up to 10000	Up to 20000	More than 20000
	Less than 3000	3000 to 5000			
	Average illuminance (Lux)	100	150	250	400

SOCCER UEFA	Number of Spectators		130 m	150 m	180 m
	Less than 10000	Less than 20000			
	Average illuminance (Lux)	Acceptable	Recommended	250	400

Lighting projects for sport facilities

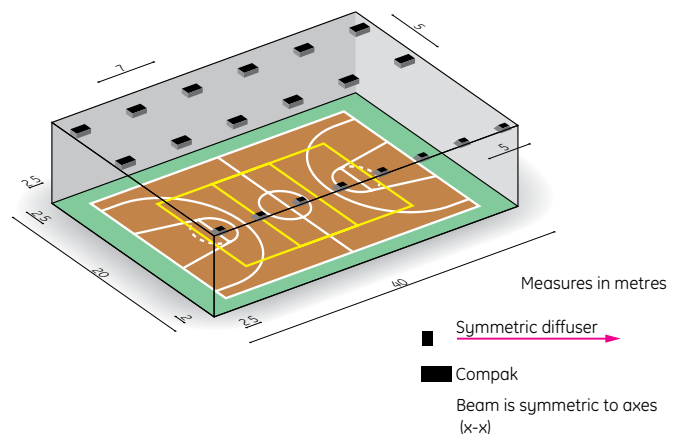
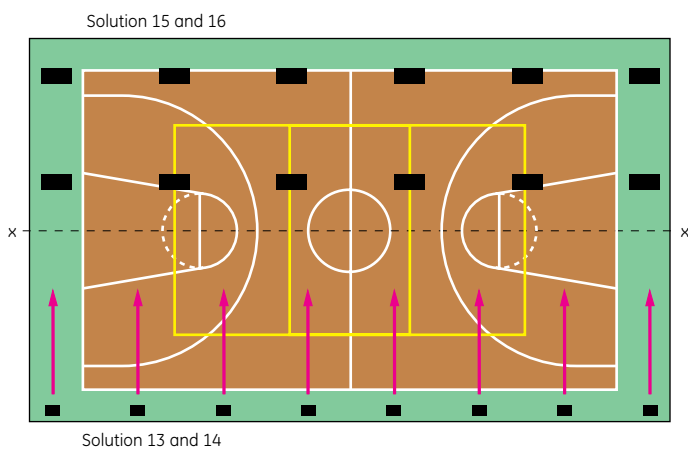
Soccer (105 x 65) m



● Reference post
Beams are symmetric to axes (x-x') (y-y)

	Average horizontal illuminance (lux)	Type of fittings	Number	Type	Mounting height	N° of fittings	Uniformity E min/av	aiming angle "Z"			aiming angle "Y"			Wattage (KW)
1	89	EF2E40W	12	SPL2000/T/H	16	3	0,47	1=32°	2=0°	3=-40°	1=67°	2=65°	3=65°	24,8
2	110	EF2E40W	16	SPL2000/T/H	20	4	0,54	1=45° 4=-50°	2=25°	3=-20°	1=55° 4=55°	2=65°	3=65°	33,1
3	138	EF2E40W	20	SPL2000/T/H	20	5	0,55	1=45° 4=28°	2=0° 5=-30°	3=-60°	1=58° 4=65°	2=60° 5=65°	3=65°	41,4
4	179	EF2W	20	HSI-TD2000W	20	5	0,65	1=45° 4=28°	2=0° 5=-30°	3=-60°	1=58° 4=65°	2=60° 5=65°	3=65°	40,4

Multipurpose sports hall (40 x 20) m - Basket ball (28 x 15) m - Volleyball (18 x 9) m



■ Symmetric diffuser
■ Compak
Beam is symmetric to axes (x-x')

	Average horizontal illuminance (lux)	Type of fittings	Number	Type	Mounting height	N° of fittings	Uniformity E min/av	aiming angle "Z"	aiming angle "Y"	Wattage (KW)
13	Basket 355	EF40 400M SM	16	ARC400/T/H	7	2 x 8	0,87	0°	45°	6,8
14	Pallavolo 358	EF40 400M SM	16	ARC400/T/H	7	2 x 8	0,91	0°	45°	6,8
15	Basket 340	CPC 400M + CPG	24	ARC400/T/H	7	4 x 6	0,86	0°	0°	10,3
16	Pallavolo 357	CPC 400M + CPG	24	ARC400/T/H	7	4 x 6	0,96	0°	0°	10,3

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9409	75514	33
9409	75514	35
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GEWWPGP6-27K-A	75547	35
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GEWWPGP6-35K-A	75549	35
GEWWPGP6-40K-A	75550	35
GEWXXNLE1-27K-A	75487	31
GEWXXNLE1-30K-A	75488	31
GEWXXNLE1-35K-A	75489	31
GEWXXNLE1-40K-A	75490	31
GEXNBA	75537	31
GEXNLG15	75541	31
GEXNLG15	75533	31
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LPL-G09-120C-930	78888	29
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LPL-G09-120D-927	78890	29
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LPL-G18-060C-930	78894	29
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LPL-G18-120D-927	78902	29
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IBERIA PREMIUM VC CMH250 T U	519833	50
IBERIA PREMIUM VC HPS 100W	519829	50
IBERIA PREMIUM VC HPS 150W	519830	50
IBERIA PREMIUM VC HPS 250W	519831	50
IBERIA PREMIUM VC HPS 70W	519828	50
IBERIA PREMIUM VT CMH150 T U	519826	50
IBERIA PREMIUM VT CMH250 T U	519827	50
IBERIA PREMIUM VT HPS 100W	519823	50
IBERIA PREMIUM VT HPS 150W	519824	50
IBERIA PREMIUM VT HPS 250W	519825	50
IBERIA PREMIUM VT HPS 70W	519822	50
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IBERIA/E/SC HPS 250W	87975	50
IBERIA/E/SM HPS 100W	87979	50
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SCM3-175 B HPS 100W	519901	55
SCM3-175 B HPS 150W	519703	55
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EF2 M 1000HRR DOUBLE ENDED S/LAMP	523883	103
EF2 M 2000 DOUBLE ENDED S/LAMP	78155	103
EF2 M 2000HRR DOUBLE ENDED S/LAMP	78152	103
EF2 MS 1000 LL DOUBLE ENDED	523878	103
EF2 MS 1000HRR DOUBLE ENDED S/LAMP	523882	103
EF2 MS 2000 DOUBLE ENDED S/LAMP	523879	103
EF2 MS 2000HR DOUBLE ENDED S/LAMP	513060	103
EF2 MW 1000 LL DOUBLE ENDED	519570	103
EF2 MW 1000HRR DOUBLE ENDED S/LAMP	523884	103
EF2 MW 2000 DOUBLE ENDED S/LAMP	78148	103
EF2 MW 2000HR DOUBLE ENDED S/LAMP	78153	103
EF2 S 1000 LL DOUBLE ENDED S/LAMP	523877	103
EF2 S 2000 DOUBLE ENDED S/LAMP	78147	103
EF2 S 2000HR DOUBLE ENDED S/LAMP	78151	103
EF2 US 1000 LL DOUBLE ENDED S/LAMP	519568	103
EF2 US 1000HRR DOUBLE ENDED S/LAMP	523880	103
EF2 US 2000 DOUBLE ENDED S/LAMP	78146	103
EF2 US 2000HR DOUBLE ENDED S/LAMP	78150	103
EF2 W 1000 LL DOUBLE ENDED	519571	103
EF2 W 1000HRR DOUBLE ENDED S/LAMP	523882	103
EF2 W 2000 DOUBLE ENDED S/LAMP	78149	103
EF2 W 2000HR DOUBLE ENDED S/LAMP	78154	103
EF-2000 HPS 1000W E40 MEDIUM 230V 50Hz	513064	103
EF-2000 HPS 1000W E40 WIDE 230V 50Hz	513066	103
EF-2000 MH1000 E40 MEDIUM 230V 50Hz	513063	103
EF-2000 MH1000 E40 WIDE 230V 50Hz	513065	103

EF25 150 S AS	42886	97
EF25 150 S SM	42888	97
EF25 250 M AS	42891	97
EF25 250 M AS CMH	42880	97
EF25 250 M SM	42892	97
EF25 250 M SM CMH	42879	97
EF25 250 S AS	42889	97
EF25 250 S SM	42890	97
EF40 250 M AS	42895	97
EF40 250 M SM	42896	97
EF40 250 S AS	42893	97
EF40 250 S SM	42894	97
EF40 400 M AS	42898	97
EF40 400 M AS CMH	42878	97
EF40 400 M K A S	42901	97
EF40 400 M K SM	42902	97
EF40 400 M SM	42899	97
EF40 400 M SM CMH	42877	97
EF40 400 S AS	43070	97
EF40 400 S SM	42897	97
EF40 600 S SM	42900	97
EFG15	43389	97
EFG25	43390	97
EFG40	43393	97
EFV15	43394	97
EFV25	43395	97
EFV40	43396	97
ET25 100 S G	42613	75
ET25 100 S P	42628	75
ET25 125 H G	42608	75
ET25 125 H P	42609	75
ET25 150 M G CMH	42652	75
ET25 150 M P CMH	43668	75
ET25 150 S G	42629	75
ET25 150 S P	42634	75
ET25 50 SG	42651	75
ET25 70 S G	42610	75
ET25 70 S P	42611	75
ET25 80 H G	42605	75
ET25 80 H P	42607	75
ET40 250 H G	42635	75
ET40 250 M G	42642	75
ET40 250 M G CMH	42592	75
ET40 250 S G	42639	75
ET40 400 H G	42636	75
ET40 400 M G	42650	75
ET40 400 M G CMH	42593	75
ET40 400 S G	42641	75
ETC 60	42657	75
ETG25	43320	75
ETG40	43319	75
ETP25	44173	75
ETW60	42654	75
EURO-2 CMH 150	519728	69
EURO-2 CMH 250	519729	69
EURO-2 HPS 100W	519725	69
EURO-2 HPS 100W RC	519731	69
EURO-2 HPS 150W	519726	69
EURO-2 HPS 150W RC	519732	69
EURO-2 HPS 250W	519727	69
EURO-2 HPS 250W RC	519733	69
EURO-2 HPS 50W	519723	69
EURO-2 HPS 70W	519724	69
EURO-2 HPS 70W RC	519730	69
EURO-7 CMH 150 T U	519737	69

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EURO-7 CMH 250 T U	519738	69
EURO-7 CMH 400 T HOR	519739	69
EURO-7 HPS 250W	88027	69
EURO-7 HPS 250W RC	519740	69
EURO-7 HPS 400W	88028	69
EURO-7 HPS 400W RC	519741	69
EURO-7 HPS 600W	88029	69
Front cover glass for HALOPAK 1000	31085	101
Front cover glass for HALOPAK 1500	31086	101
HALOPAK 1 BK	17500	101
HALOPAK 1 WH	17501	101
HALOPAK 1000	44375	101
HALOPAK 1000 and 1500 Lamp holder	31366	101
HALOPAK 1500	44376	101
HALOPAK 3 BK	17502	101
HALOPAK 3 WH	17513	101
HMA CA CMH 400 T HOR	519548	77
HMA CA HPS 1000W	519547	77
HMA CA HPS 400W	519545	77
HMA CA HPS 600W	519546	77
HMA CA MH1000W	519549	77
LUNA MINI CMH 100	96900	73
LUNA MINI CMH 150	96902	73
LUNA MINI HPS 100	96895	73
LUNA MINI HPS 150	96896	73
LUNA MINI HPS 50	96893	73
LUNA MINI HPS 70	96894	73
LUNA MINI MH 100	96899	73
LUNA MINI MH 150	96901	73
LUNA MINI MH 70	96898	73
LUNALYS CMH 150	96903	71
LUNALYS HPS 100	96905	71
LUNALYS HPS 100 RC	96906	71
LUNALYS HPS 150	96907	71
LUNALYS HPS 150 RC	96908	71
LUNALYS HPS 250	96909	71
LUNALYS HPS 250 RC	96910	71
LUNALYS MH 250	96904	71
MASTERPAK 70	30727	99
ODYSSEY HPS 100 LL 230V CL2 GE	73996	67
ODYSSEY HPS 100 LL 230V EB GE	74006	67
ODYSSEY HPS 100 LL 230V GE	522528	67
ODYSSEY HPS 100 LL 230V RC GE	74003	67
ODYSSEY HPS 150 LL 230V CL2 GE	73997	67
ODYSSEY HPS 150 LL 230V EB GE	74007	67
ODYSSEY HPS 150 LL 230V GE	522529	67
ODYSSEY HPS 150 LL 230V RC GE	74004	67
ODYSSEY HPS 50 LL 230V GE	73993	67
ODYSSEY HPS 70 LL 230V CL2 GE	73995	67
ODYSSEY HPS 70 LL 230V EB GE	74005	67
ODYSSEY HPS 70 LL 230V GE	73994	67
ODYSSEY HPS 70 LL 230V RC GE	74002	67
ODYSSEY MH 100 LL 230V CL2 GE	73999	67
ODYSSEY MH 100 LL 230V GE	522531	67
ODYSSEY MH 150 E40 LL 230V CL2 GE	74001	67
ODYSSEY MH 150 E40 LL 230V GE	522534	67
ODYSSEY MH 150 LL 230V CL2 GE	74000	67
ODYSSEY MH 150 LL 230V GE	522532	67
ODYSSEY MH 70 LL 230V CL2 GE	73998	67

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ODYSSEY MH 70 LL 230V GE	522530	67
PFE-1000 6X2 HPS 1000W	519595	95
PFE-1000 6X2 HPS 400W	519587	95
PFE-1000 6X2 HPS 600W	519591	95
PFE-1000 6X3 HPS 1000W	519596	95
PFE-1000 6X3 HPS 400W	519588	95
PFE-1000 6X3 HPS 600W	519592	95
PFE-1000 6X5 HPS 1000W	519597	95
PFE-1000 6X5 HPS 400W	519589	95
PFE-1000 6X5 HPS 600W	519593	95
PFE-1000 6X5 MH1000W	519599	95
PFE-1000 7X7 HPS 1000W	519598	95
PFE-1000 7X7 HPS 400W	519590	95
PFE-1000 7X7 HPS 600W	519594	95
PFE-1000 7X7 MH1000W	519600	95
PFE-154 HPS 100W	519622	91
PFE-154 HPS 150W	519623	91
PFE-154 HPS 250W	519624	91
PFE-154 HPS 50W	519620	91
PFE-154 HPS 70W	519621	91
PFE-154 MH 150W	519625	91
PFE-154 MH 250W	519626	91
PFE4/TUN PFE400SYM70S	TBD	85
PFE-400 4X2 HPS 250W 230V 50Hz	519601	93
PFE-400 5X2 HPS 400W 230V 50Hz	519605	93
PFE-400 5X2 HPS 600W 230V 50Hz	519609	93
PFE-400 5X4 HPS 250W	519602	93
PFE-400 5X4 HPS 400W	519606	93
PFE-400 5X4 HPS 600W	519610	93
PFE-400 6X3 HPS 250W	519603	93
PFE-400 6X4 HPS 400W	519607	93
PFE-400 6X4 HPS 600W	519611	93
PFE-400 6X6 HPS 250W	519604	93
PFE-400 7X6 HPS 400W	519608	93
PFE-400 7X6 HPS 600W	519612	93
PFE-400 CBM HPS 100W	519561	93
PFE-400 CBM HPS 100W	519561	93
PFE-400 CBM HPS 250W RC	519471	93
PFE-400 CBM HPS 400W RC	519472	93
PFE-400 SYM HPS 100W RC	519475	93
PFE-400 SYM HPS 150W RC	519476	93
PFE-400 V2F DA HPS 100W	519477	85
PFE-400 V2F DA HPS 100W RC	519482	85
PFE-400 V2F DA HPS 150W	519478	85
PFE-400 V2F DA HPS 150W RC	519483	85
PFE-400 V2F DA HPS 250W	519479	85
PFE-400 V2F DA HPS 250W RC	519484	85
PFE-400 V2F DA HPS 400W	519480	85
PFE-400 V2F DA HPS 400W RC	519485	85
PFE-400 V2F DA HPS 600W	519481	85
PFE-400/3*2 MH 400W (HPS)	88041	93
PFE-400/4*4 MH 400W (HPS)	88042	93
PFE-400/6*3 MH 400W (HPS)	88043	93
PFE-400/6*6 MH 250W (HPS)	88040	93
PFE-400/7*6 MH 400W (HPS)	88044	93
PW HPS 1000W HOUSING	519578	105
PW MH1000W HOUSING	519579	105
PW MH1650W HOUSING	519580	105
PW-20 B OPTICAL ASSEMBLY	519583	105
PW-20 C OPTICAL ASSEMBLY	519584	105
PW-20 D OPTICAL ASSEMBLY	519585	105
PW-20 E OPTICAL ASSEMBLY	519586	105
PW-22 A OPTICAL ASSEMBLY	519582	105

Description	Product Code	Page Number
PW-22 A2 OPTICAL ASSEMBLY	519581	105
SBF C HPS 50W	519634	89
SBF C HPS 70W	519635	89
SBF C MH 100W	519637	89
SBF C MH 150W	519638	89
SBF C MH 70W	519636	89
SBF D HPS 50W	519639	89
SBF D HPS 70W	519640	89
SBF D MH 100W	519642	89
SBF D MH 150W	519643	89
SBF D MH 70W	519641	89
TPK HPS 150W	88035	79
TPK HPS 250W	88036	79
TUNNEL T5/HAR/AE 49W	TBD	81
TUNNEL T5/HAR/AE 49W DALI	TBD	81
TUNNEL T5/HAR/AI 49W	TBD	81
TUNNEL T5/HAR/AI 49W DALI	TBD	81
TUNNEL T5/HAR/SE 49W	TBD	81
TUNNEL T5/HAR/SE 49W DALI	TBD	81
TUNNEL T5/HAR/SM 49W	TBD	81
TUNNEL T5/HAR/SM 49W DALI	TBD	81
TUNNEL T5/PG/AE 49W	TBD	81
TUNNEL T5/PG/AE 49W DALI	TBD	81
TUNNEL T5/PG/AI 49W	TBD	81
TUNNEL T5/PG/AI 49W DALI	TBD	81
TUNNEL T5/PG/SE 49W	TBD	81
TUNNEL T5/PG/SE 49W DALI	TBD	81
TUNNEL T5/PG/SI 49W	TBD	81
TUNNEL T5/PG/SI 49W DALI	TBD	81
TUNNEL T5/PG/SM 49W	TBD	81
TUNNEL T5/PG/SM 49W DALI	TBD	81
V2F VP DA CMH 150 T U	519555	83
V2F VP DA CMH 250 T U	519556	83
V2F VP DA CMH 400 T VBU	519557	83
V2F VP DA HPS 100W	519551	83
V2F VP DA HPS 150W	519552	83
V2F VP DA HPS 150W RC	519558	83
V2F VP DA HPS 250W	519553	83
V2F VP DA HPS 250W RC	519559	83
V2F VP DA HPS 400W	519554	83
V2F VP DA HPS 400W RC	519560	83
V2F VP DA HPS 70W	519550	83
VHA 5	7002511	99
WL-175 CMH 150 T U	519496	87
WL-175 HPS 100W	519494	87
WL-175 HPS 150W	519495	87
WL-175 HPS 50W	519492	87
WL-175 HPS 70W	519493	87
WL-250BR CMH 150 T U	519490	87
WL-250BR CMH 250 T U	519491	87
WL-250BR HPS 100W	519487	87
WL-250BR HPS 150W	519488	87
WL-250BR HPS 250W	519489	87
WL-250BR HPS 70W	519486	87
WM-175 CMH 150 T U	519504	87
WM-175 HPS 100W	519499	87
WM-175 HPS 150W	519500	87
WM-175 HPS 50W	519497	87
WM-175 HPS 70W	519498	87
WM-175 MH 100W	519502	87
WM-175 MH 150W	519503	87
WM-175 MH 70W	519501	87



Description	Product Code	Page Number	Product Status
Indoor Functional Industrial HID			
CON-250 OPTICAL ASSEM (DIFF& REF ASS)	519902	117	MTO
CON-400 OPTICAL ASSEM (DIFF& REF ASS)	519686	117	MTO
EBD	43043	109	MTO
EBG	43010	109	MTO
EBR	10854	109	MTO
EBRD	17103	109	MTO
EBV	43009	109	MTO
EUROBAY 150W M CD CMH GY CWL	43001	109	MTO
EUROBAY 150W M GY CMH GREY CWL	43045	109	MTO
EUROBAY 150W S GY GREY CWL	43027	109	MTO
EUROBAY 250W H CD GY GREY CWL	43025	109	MTO
EUROBAY 250W H GY GREY CWL	43040	109	MTO
EUROBAY 250W M CD CMH GY CWL	43000	109	MTO
EUROBAY 250W M CD GY GREY CWL	43023	109	MTO
EUROBAY 250W M CMH GY CWL	42951	109	MTO
EUROBAY 250W M GY GREY CWL	43035	109	MTO
EUROBAY 250W S CD GY GREY CWL	43017	109	MTO
EUROBAY 250W S GY GREY CWL	43026	109	MTO
EUROBAY 400W H CD GY GREY CWL	43024	109	MTO
EUROBAY 400W H GY GREY CWL	43038	109	MTO
EUROBAY 400W M CD CMH GY CWL	42952	109	MTO
EUROBAY 400W M CD GY GREY CWL	43022	109	MTO
EUROBAY 400W M CMH GY CWL	42943	109	MTO
EUROBAY 400W M GY GREY CWL	43032	109	MTO
EUROBAY 400W S CD GY GREY CWL	43015	109	MTO
EUROBAY 400W S GY GREY CWL	43031	109	MTO
FG-17 OPTICAL ASSEMBLY	519649	111	MTO
FG-22 OPTICAL ASSEMBLY	519653	111	MTO
FK1-IND -with 1 fuse holder	TBD	113	TBD
FK1-IND -with 1 fuse holder	TBD	115	TBD
FK1-IND -with 1 fuse holder	TBD	119	TBD
FK1-IND -with 1 fuse holder	TBD	111	TBD
FK2-IND - with 2 fuse holder	TBD	113	TBD
FK2-IND - with 2 fuse holder	TBD	115	TBD
FK2-IND - with 2 fuse holder	TBD	119	TBD
FK2-IND - with 2 fuse holder	TBD	111	TBD
GEAR BOX CON-250 CMH 150W T U	519690	117	MTO
GEAR BOX CON-250 CMH 250W T U	519692	117	MTO
GEAR BOX CON-250 HPS 150W	519687	117	MTO
GEAR BOX CON-250 HPS 250W	519688	117	MTO
GEAR BOX CON-250 MH 150W	519689	117	MTO
GEAR BOX CON-400 CMH 250W T U	519683	117	MTO
GEAR BOX CON-400 CMH400W T VBU	519685	117	MTO
GEAR BOX CON-400 HPS 250W	519680	117	MTO
GEAR BOX CON-400 HPS 400W	519681	117	MTO
GEAR BOX FG AG5 HPS 1000W	519651	111	MTO
GEAR BOX FG AG5 HPS 600W	519650	111	MTO
GEAR BOX FG AP5 CMH 250 T U	519646	111	MTO
GEAR BOX FG AP5 CMH 400 T VBU	519648	111	MTO
GEAR BOX FG AP5 HPS 400W	519644	111	MTO
GEAR BOX LOW CMH 250 T U	519669	115	MTO
GEAR BOX LOW CMH 400 T VBU	519671	115	MTO
GEAR BOX LOW HPS 250W	519666	115	MTO
GEAR BOX LOW HPS 400W	519667	115	MTO
GEAR BOX LOW-250 CMH 150 T U	519676	115	MTO
GEAR BOX LOW-250 CMH 250 T U	519674	115	MTO
GEAR BOX LOW-250 HPS 150W	519673	115	MTO
GEAR BOX LOW-250 HPS 250W	519674	115	MTO
GEAR BOX LOW-250 MH 150W	519675	115	MTO
GEAR BOX UG-VSB AG5 HPS 600W	519660	113	MTO
GEAR BOX UG-VSB AG5 HPS 600W	519660	119	MTO
GEAR BOX UG-VSB AP5 HPS 400W	519654	113	MTO

MTO - Make To Order
 MTS - Make To Stock

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GEAR BOX UG-VSB AP5 HPS 400W	519654	119	MTO
GEAR BX UG-VSB AG5 HPS 1000W	519661	113	MTO
GEAR BX UG-VSB AG5 HPS 1000W	519661	119	MTO
GEAR BXUG-VSB AP5 CMH250 T U	519655	113	MTO
GEAR BXUG-VSB AP5 CMH250 T U	519655	119	MTO
GEAR BXUG-VSB AP5 CMH400 T VBU	519657	113	MTO
GEAR BXUG-VSB AP5 CMH400 T VBU	519657	119	MTO
HOOKM IP65	519702	111	MTO
HOOKM IP65	519702	113	MTO
HOOKM IP65	519702	117	MTO
HOOKM IP65	519702	115	MTO
HOOKM IP65	519702	119	MTO
HOOKM standard	519701	113	MTO
HOOKM standard	519701	115	MTO
HOOKM standard	519701	117	MTO
HOOKM standard	519701	119	MTO
HOOKM standard	519701	111	MTO
LOW OPTICAL ASSEM (DIFF & REF ASS)	519672	115	MTO
LOW-250 OPTICAL ASSEM (DIFF& REF ASS)	519679	115	MTO
Mounting receptacle A1	519463	117	MTO
Mounting receptacle A2	519461	111	MTO
Mounting receptacle A2	519461	113	MTO
Mounting receptacle A2	519461	115	MTO
Mounting receptacle A3	519462	117	MTO
Mounting receptacle A4	519464	117	MTO
Mounting receptacle A5	519465	117	MTO
SFC-0 - for optical componenet, L=0.3 m	TBD	113	TBD
SFC-0 - for optical componenet, L=0.3 m	TBD	115	TBD
SFC-0 - for optical componenet, L=0.3 m	TBD	119	TBD
SFC-0 - for optical componenet, L=0.3 m	TBD	111	TBD
SFC3-B - for ballast componenet, L=0.9 m	TBD	113	TBD
SFC3-B - for ballast componenet, L=0.9 m	TBD	115	TBD
SFC3-B - for ballast componenet, L=0.9 m*	TBD	119	TBD
SFC3-B - for ballast componenet, L=0.9 m***	TBD	111	TBD
SFC3-B - for ballast component, L=0.9m	TBD	117	TBD
UG-17A OPTICAL ASSEMBLY	519658	119	MTO
UG-17C OPTICAL ASSEMBLY	519659	119	MTO
UG-22A OPTICAL ASSEMBLY	519663	119	MTO
UG-22C OPTICAL ASSEMBLY	519664	119	MTO
VSB OPTICAL ASSEMBLY	519665	113	MTO

Water proof

MAC 1x18W EB	43734	131	MTO
MAC 1x18W H	43735	131	MTO
MAC 1x36W EB	43736	131	MTO
MAC 1x36W H	43738	131	MTS
MAC 1x36W H EES	43739	131	MTO
MAC 1x58W EB	43740	131	MTO
MAC 1x58W H	43742	131	MTS
MAC 1x58W H EES	43743	131	MTO
MAC 2x18W EB	43744	131	MTO
MAC 2x18W H	43745	131	MTO
MAC 2x36W EB	43746	131	MTO
MAC 2x36W EB EES	43747	131	MTO
MAC 2x36W H	43748	131	MTO
MAC 2x58W EB	43749	131	MTO
MAC 2x58W H	43750	131	MTS
MAC 2x58W H EES	43751	131	MTO
MAC/R 2	44096	131	MTO
MAC/R 2 AL	44097	131	MTO
MAC/R 22	44103	131	MTO
MAC/R 22 AL	44100	131	MTO
MAC/R 24	44113	131	MTO
MAC/R 24 AL	44101	131	MTO

Description	Product Code	Page Number	Product Status
MAC/R 25	44114	131	MTO
MAC/R 25 AL	44102	131	MTO
MAC/R 4	44112	131	MTO
MAC/R 4 AL	44098	131	MTO
MAC/R 5	44111	131	MTO
MAC/R 5 AL	44099	131	MTO
MARINER 5 1x14W EB	76968	123	MTS
MARINER 5 1x28W EB	76970	123	MTS
MARINER 5 1x35W EB	76972	123	MTS
MARINER 5 1x49W EB	76974	123	MTS
MARINER 5 1x54W EB	76976	123	MTS
MARINER 5 1x80W EB	76978	123	MTS
MARINER 5 2x14W EB	76969	123	MTS
MARINER 5 2x28W EB	76971	123	MTS
MARINER 5 2x35W EB	76973	123	MTS
MARINER 5 2x49W EB	76975	123	MTS
MARINER 5 2x54W EB	76977	123	MTS
MARN 1x36W EB EES R LL	43781	125	MTO
MARN 1x36W EB R LL	43773	125	MTS
MARN 1x36W EES R LL	43777	125	MTO
MARN 1x36W H	43769	125	MTS
MARN 1x58W EB EES R LL	43782	125	MTO
MARN 1x58W EB R LL	43774	125	MTS
MARN 1x58W EES R LL	43778	125	MTO
MARN 1x58W H	43771	125	MTS
MARN 2x36W EB EES R LL	43783	125	MTO
MARN 2x36W EB R LL	43775	125	MTS
MARN 2x36W EES R LL	43779	125	MTO
MARN 2x36W H	43770	125	MTS
MARN 2x58W EB EES R LL	43784	125	MTO
MARN 2x58W EB R LL	43776	125	MTS
MARN 2x58W EES R LL	43780	125	MTO
MARN 2x58W H	43772	125	MTS
MARP 1x18W EB R LL	43788	125	MTO
MARP 1x18W H	43800	125	MTS
MARP 1x18W H EES	43792	125	MTO
MARP 2x18W EB EES LL	43793	125	MTO
MARP 2x18W EB R LL	43789	125	MTO
MARP 2x18W H	43801	125	MTS
MARP 2x18W H EES	43787	125	MTO
MASP 1x35W AL T5 EB	44209	127	MTO
MASP 1x49W AL T5 EB	44207	127	MTO
MASP 1x58W AL EB	43812	127	MTO
MASP 1x58W AL EB	43813	127	MTS
MASP 1x58W AL EES	43814	127	MTO
MASP 1x58W EB PP	43810	127	MTO
MASP 1x58W EES	43811	127	MTO
MASP 1x58W H AL	43804	127	MTO
MASP 1x58W H PP	43802	127	MTO
MASP 1x80W AL T5 EB	44204	127	MTO
MASP 2x35W AL T5 EB	44210	127	MTO
MASP 2x49W AL T5 EB	44208	127	MTO
MASP 2x58W AL EES	43815	127	MTO
MASP 2x58W EB PP	43808	127	MTO
MASP 2x58W EES	43809	127	MTO
MASP 2x58W H AL	43807	127	MTS
MASP 2x58W H PP	43803	127	MTO
MASP 2x80W AL T5 EB	44205	127	MTO
MAXP 1x58W AL EB LL	43822	129	MTO
MAXP 1x58W AL H LL	43820	129	MTO
MAXP 2x58W AL EB LL	43823	129	MTO
MAXP 2x58W AL H LL	43821	129	MTO
MAXV 1x35W AL T5 EB CWL	44201	129	MTO
MAXV 1x49W AL T5 EB CWL	44199	129	MTO
MAXV 1x58W AL EB LL	43827	129	MTO

MTO - Make To Order
MTS - Make To Stock

Description	Product Code	Page Number	Product Status
MAXV 1x58W AL H EES LL	43831	129	MTO
MAXV 1x58W AL H LL	43824	129	MTO
MAXV 1x80W AL T5 EB CWL	44197	129	MTO
MAXV 2x35W AL 5 EB CWL	44202	129	MTO
MAXV 2x49W AL T5 EB CWL	44200	129	MTO
MAXV 2x58W AL EB LL	43830	129	MTO
MAXV 2x58W AL H EES LL	43832	129	MTO
MAXV 2x58W AL H LL	43825	129	MTO
MAXV 2x80W AL T5 EB CWL	44198	129	MTO
RAPIDKIT BAG 2PCS	44124	125	MTO
RAPIDKIT BAG 2PCS	44124	127	MTO
RAPIDKIT BAG 2PCS	44124	129	MTO

Industrial fluorescent

NAL 1000 1M WH	43999	150	MTO
NAL 1001	32624	151	MTO
NAL 1001	32624	153	MTO
NAL 1002	44018	150	MTS
NAL 1003	45313	151	MTS
NAL 1004	44273	151	MTS
NAL 1006 L	44000	151	MTS
NAL 1007 T	44001	151	MTS
NAL 1008 X	44002	150	MTO
NAL 1014 UPDOWN	44003	150	MTO
NAL 1023	32621	133	MTO
NAL 1023	32621	141	MTO
NAL 1023	32621	151	MTO
NAL 1023	32621	153	MTO
NAL 1025	32617	151	MTO
NAL 1025	32617	153	MTO
NAL 1026	44019	151	MTS
NAL 1027	45312	151	MTS
NAL 1030	44015	151	MTO
NAL 1030	44015	153	MTO
NAL 1050 TIGE 50CM	44016	151	MTO
NAL 1050 TIGE 50CM	44016	153	MTO
NAL 1100 TIGE 1M	44020	151	MTO
NAL 1100 TIGE 1M	44020	153	MTO
NAL 1110	43998	151	MTO
NAL 1110	43998	153	MTO
NAL 1652	45316	151	MTS
NAL 1652	45316	153	MTS
NAL 2000 2M WH	44009	150	MTS
NAL 3000 3M WH	44010	150	MTS
NBL 1000 1M WH	44004	152	MTO
NBL 1002	44017	152	MTS
NBL 1003	45314	153	MTO
NBL 1004	44021	153	MTO
NBL 1006	44005	153	MTO
NBL 1007	44006	152	MTO
NBL 1008 X	44007	152	MTO
NBL 1014 UPDOWN	44008	153	MTO
NBL 1027	45315	153	MTO
NBL 2000 2M WH	44011	152	MTO
NBL 3000 3,065 M WH	44014	152	MTS
NPA 1/2 x 14W -24W	73467	137	MTO
NPA 1/2 x 21W-39W	73468	137	MTO
NPA 1/2 x 28W-54W	73469	137	MTO
NPA 1/2 x 35W-49W-80W	73470	137	MTO
NPA4	44062	147	MTO
NPA5	44063	147	MTO
NPGR 1/2 x 14W -24W	73471	138	MTO
NPGR 1/2 x 21W-39W	73472	138	MTO
NPGR 1/2 x 28W-54W	73473	138	MTO

Description	Product Code	Page Number	Product Status
NPGR 1/2 x 35W-49W-80W	73474	138	MTO
NPGR24	44088	148	MTO
NPGR25	44089	148	MTO
NPGT 2	32090	148	MTO
NPGT 3	32092	148	MTO
NPGT 4	32093	148	MTO
NPGT 5	32095	148	MTO
NPGTL 2	38434	148	MTO
NPGTL 3	38435	148	MTO
NPGTL 4	38436	148	MTO
NPGTL 5	38437	148	MTO
NPGTW 2	32099	148	MTO
NPGTW 4	32101	148	MTO
NPGTW 5	32102	148	MTO
NPLT	45311	138	MTS
NPLT	45311	149	MTS
NPP 1x14W EB T5 LL	88576	133	MTO
NPP 1x18W EB LL	43431	141	MTO
NPP 1x18W H LL	43468	141	MTS
NPP 1x18W L LL	43469	141	MTS
NPP 1x21W EB T5 LL	88574	133	MTO
NPP 1x24W EB T5 LL	88575	133	MTO
NPP 1x28W EB T5 LL	88570	133	MTO
NPP 1x30W H LL	43470	141	MTS
NPP 1x30W L LL	43483	141	MTS
NPP 1x35W EB T5 LL	88566	133	MTO
NPP 1x36W EB EES LL	45624	141	MTO
NPP 1x36W EB LL	43444	141	MTO
NPP 1x36W H LL	43471	141	MTS
NPP 1x36W L LL	43472	141	MTS
NPP 1x39W EB T5 LL	88572	133	MTO
NPP 1x49W EB T5 LL	88603	133	MTO
NPP 1x54W EB T5 LL	88568	133	MTO
NPP 1x58W EB EES LL	88142	141	MTO
NPP 1x58W EB LL	43449	141	MTS
NPP 1x58W H LL	43473	141	MTS
NPP 1x58W L LL	43475	141	MTS
NPP 1x80W EB T5 LL	88563	133	MTO
NPP 2x18W EB LL	43454	141	MTO
NPP 2x18W H LL	43476	141	MTS
NPP 2x18W L LL	43477	141	MTO
NPP 2x21W EB T5 LL	88573	133	MTO
NPP 2x28W EB T5 LL	88569	133	MTO
NPP 2x35W EB T5 LL	88565	133	MTO
NPP 2x36W EB LL	43458	141	MTO
NPP 2x36W H LL	43459	141	MTS
NPP 2x36W L LL	43478	141	MTO
NPP 2x39W EB T5 LL	88571	133	MTO
NPP 2x49W EB T5 LL	88564	133	MTO
NPP 2x54W EB T5 LL	88567	133	MTO
NPP 2x58W EB EES LL	45625	141	MTO
NPP 2x58W EB LL	43463	141	MTS
NPP 2x58W H LL	43481	141	MTS
NPP 2x58W L LL	43482	141	MTO
NPP 2x80W EB T5 LL	88602	133	MTO
NPP1x36WV H EES LL	43447	141	MTO
NPP1x58W H EES LL	43452	141	MTO
NPP2x58W H EES LL	43466	141	MTO
NPQ 1x14W EB T5 LL	88591	135	MTO
NPQ 1x18W H LL	43492	143	MTO
NPQ 1x21W EB T5 LL	88589	135	MTO
NPQ 1x24W EB T5 LL	88590	135	MTO
NPQ 1x28W EB T5 LL	88585	135	MTO
NPQ 1x35W EB T5 LL	88562	135	MTO
NPQ 1x36W EB LL	43484	143	MTO

Description	Product Code	Page Number	Product Status
NPQ 1x36W H EES LL	43485	143	MTO
NPQ 1x36W H LL	43493	143	MTS
NPQ 1x39W EB T5 LL	88587	135	MTO
NPQ 1x49W EB T5 LL	88580	135	MTO
NPQ 1x54W EB T5 LL	88583	135	MTO
NPQ 1x58W EB LL	43486	143	MTS
NPQ 1x58W H EES LL	43487	143	MTO
NPQ 1x58W H LL	43500	143	MTS
NPQ 1x80W EB T5 LL	88578	135	MTO
NPQ 2x18WH LL	43501	143	MTO
NPQ 2x21W EB T5 LL	88588	135	MTO
NPQ 2x28W EB T5 LL	88584	135	MTO
NPQ 2x35W EB T5 LL	88581	135	MTO
NPQ 2x36W EB LL	43488	143	MTO
NPQ 2x36W H LL	43502	143	MTS
NPQ 2x39W EB T5 LL	88586	135	MTO
NPQ 2x49W EB T5 LL	88579	135	MTO
NPQ 2x54W EB T5 LL	88582	135	MTO
NPQ 2x58W EB LL	43489	143	MTS
NPQ 2x58W H EES LL	43491	143	MTO
NPQ 2x58W H LL	43503	143	MTS
NPQ 2x80W EB T5 LL	88577	135	MTO
NPR 1/2 x 14W -24W	73463	137	MTO
NPR 1/2 x 21W-39W	73464	137	MTO
NPR 1/2 x 28W-54W	73465	137	MTO
NPR 1/2 x 35W-49W-80W	73466	137	MTO
NPR24	44061	147	MTO
NPR25	44085	147	MTO
NPR4	44080	147	MTO
NPR5	44081	147	MTO
NPSP2	44064	149	MTO
NPSP22	44067	149	MTO
NPSP24	44068	149	MTO
NPSP25	44069	149	MTO
NPSP4	44065	149	MTO
NPSP5	44066	149	MTO
NPSQ2	44070	149	MTO
NPSQ22	44072	149	MTO
NPSQ24	44073	149	MTO
NPSQ25	44074	149	MTO
NPSQ4	44071	149	MTO
NPSQ5	44084	149	MTO
NPT 1 x 14W -24W	73455	137	MTO
NPT 1 x 21W-39W	73456	137	MTO
NPT 1 x 28W-54W	73457	137	MTO
NPT 1 x 35W-49W-80W	73458	137	MTO
NPT 1/2 x 21W-39W	73460	137	MTO
NPT 1/2 x 28W-54W	73461	137	MTO
NPT 1/2 x14W-24W	73459	137	MTO
NPT 1/2x 35W-49W-80W	73462	137	MTO
NPT2	44042	147	MTO
NPT22	44060	147	MTO
NPT24	44083	147	MTO
NPT25	44087	147	MTS
NPT4	44082	147	MTO
NPT5	44086	147	MTS
NPW 1x18W H LL	43506	145	MTS
NPW 1x36WH LL	43515	145	MTS
NPW 1x58W H LL	43518	145	MTS
NPW 2x18W H LL	43520	145	MTO
NPW 2x36WH LL	43522	145	MTO
NPW 2x58W H LL	43524	145	MTO
TCGR	32135	138	MTO
TCGR	32135	149	MTO

MTO - Make To Order
 MTS - Make To Stock

Description	Product Code	Page Number	Product Status
Office lighting			
5500 1x28 /16 EB	TBD	159	TBD
5500 1x35 /16 EB	TBD	159	TBD
5500 1x54 /16 EB	TBD	159	TBD
5500 2x14 /16 EB	44346	159	MTO
5500 2x28 /16 EB	44345	159	MTO
5500 2x35 /16 EB	44342	159	MTO
5500 2x36W / 16 EB LL 220-240V	512632	163	TBD
5500 2x54 /16 EB	44341	159	MTO
5500 2x58W / 16 EB LL 220-240V	75054	163	MTO
5500 3x14 /16 EB	44344	159	MTO
5500 3x28 /16 EB	44343	159	MTO
5500 3x35 /16 EB	TBD	159	TBD
5500 3x54 /16 EB	TBD	159	TBD
5500 4x14 /16 EB	44335	159	MTO
5500 4x18W / 16 EB LL 220-240V	43835	163	MTO
5502 2x34W / C AL EB	515822	171	MTO
5502 2x34W / C EB	515820	171	MTO
5502 2x55W / C AL EB	72681	171	MTO
5502 2x55W / C EB	44378	171	MTO
5506 T5 1x28W / 16EB	TBD	165	TBD
5506 T5 1x35W / 16EB	TBD	165	TBD
5506 T5 1x54W / 16EB	TBD	165	TBD
5506 T5 2x24W / 16EB	TBD	165	TBD
5506 T5 2x28W / 16EB	44339	165	MTO
5506 T5 2x35W / 16EB	TBD	165	TBD
5506 T5 2x54W / 16EB	TBD	165	TBD
5506 T5 3x14W / 16EB	44338	165	MTO
5506 T5 3x24W / 16EB	TBD	165	TBD
5506 T5 3x28W / 16EB	44336	165	MTO
5506 T5 3x35W / 16EB	TBD	165	TBD
5506 T5 3x54W / 16EB	TBD	165	TBD
5506 T5 4x14W / 16EB	44350	165	MTO
5506 T5 SUSPENSION 1x28W / 16EB	TBD	167	TBD
5506 T5 SUSPENSION 1x35W / 16EB	TBD	167	TBD
5506 T5 SUSPENSION 1x54W / 16EB	TBD	167	TBD
5506 T5 SUSPENSION 2x14W / 16EB	44349	167	MTO
5506 T5 SUSPENSION 2x24W / 16EB	TBD	167	TBD
5506 T5 SUSPENSION 2x28W / 16EB	44348	167	MTO
5506 T5 SUSPENSION 2x35W / 16EB	TBD	167	TBD
5506 T5 SUSPENSION 2x54W / 16EB	44347	167	MTO
5506 T5 SUSPENSION 3x14W / 16EB	44351	167	MTO
5506 T5 SUSPENSION 3x28W / 16EB	44352	167	MTO
5506 T5 SUSPENSION 3x54W / 16EB	44354	167	MTO
5506 T5 SUSPENSION 4x14W / 16EB	44353	167	MTO
5506 T5 SUSPENSION 3x24W / 16EB	TBD	167	TBD
5506 T8 2x36W / 16 EB LL	39692	169	MTO
5506 T8 2x36W / 6 EB LL	43036	169	MTO
5506 T8 2x58W / 16 EB LL	39703	169	MTO
5506 T8 2x58W / 6 EB LL	43037	169	MTO
5506T5 2x14W / 16EB	44340	165	MTO
5507 1x28/ 16EB T5	TBD	161	TBD
5507 1x35/ 16EB T5	TBD	161	TBD
5507 1x54/ 16EB T5	TBD	161	TBD
5507 2x14/ 16EB T5	44355	161	MTO
5507 2x28/ 16EB T5	44358	161	MTO
5507 2x35/ 16EB T5	TBD	161	TBD
5507 2x54/ 16EB T5	44357	161	MTO
5507 3x14/ 16EB T5	44356	161	MTO
5507 3x28/ 16EB T5	44360	161	MTO
5507 3x35/ 16EB T5	TBD	161	TBD
5507 3x54/ 16EB T5	44359	161	MTO
5507 4x14/ 16EB T5	44361	161	MTO

MTO - Make To Order
MTS - Make To Stock

Description	Product Code	Page Number	Product Status
Comfort louvre	77566	155	MTO
NEW NUPLEX 218 EB G	77554	157	MTO
NEW NUPLEX 218 EB S	77534	157	MTO
NEW NUPLEX 236 EB G	77555	157	MTO
NEW NUPLEX 236 EB S	77553	157	MTO
Oval frame, white	77585	155	MTO
Polycarbonate diffuser IP44	77568	155	MTO
Polycarbonate silver ring	77570	155	MTO
Square frame, white	77572	155	MTO
Suspended decorative glass	77626	155	MTO
Suspended decorative glass	77627	155	MTO
TOP/DBX PR AL 1x13W	77586	155	MTO
TOP/DBX PR AL 1x13W	77615	155	MTO
TOP/DBX PR AL 1x18W	77587	155	MTO
TOP/DBX PR AL 1x18W	77616	155	MTO
TOP/DBX PR AL 1x26W	77588	155	MTO
TOP/DBX PR AL 1x26W	77617	155	MTO
TOP/DBX PR AL 2x13W	77605	155	MTS
TOP/DBX PR AL 2x13W	77618	155	MTS
TOP/DBX PR AL 2x18W	77620	155	MTS
TOP/DBX PR AL 2x18W	77619	155	MTO
TOP/DBX PR AL 2x18W Dimm	77608	155	MTO
TOP/DBX PR AL 2x18W Dimm	77622	155	MTO
TOP/DBX PR AL 2x18W EES	77610	155	MTS
TOP/DBX PR AL 2x18W EES	77624	155	MTS
TOP/DBX PR AL 2x26W	77607	155	MTS
TOP/DBX PR AL 2x26W	77621	155	MTS
TOP/DBX PR AL 2x26W Dimm	77609	155	MTO
TOP/DBX PR AL 2x26W Dimm	77623	155	MTO
TOP/DBX PR AL 2x26W EES	77612	155	MTS
TOP/DBX PR AL 2x26W EES	77625	155	MTS
TOP/DBX PR PC 1x13W	77556	155	MTO
TOP/DBX PR PC 1x18W	77557	155	MTO
TOP/DBX PR PC 1x26W	77558	155	MTO
TOP/DBX PR PC 2x13W	77559	155	MTS
TOP/DBX PR PC 2x18W	77560	155	MTS
TOP/DBX PR PC 2x18W Dimm	77562	155	MTO
TOP/DBX PR PC 2x18W EES	77564	155	MTO
TOP/DBX PR PC 2x26W	77561	155	MTS
TOP/DBX PR PC 2x26W Dimm	77563	155	MTO
TOP/DBX PR PC 2x26W EES	77565	155	MTO

Indoor decorative

2D BRIO CLEAR 16W WH L	43139	179	MTS
2D BRIO CLEAR 16W WH L EES	43140	179	MTS
2D BRIO CLEAR 21W BK L	43141	179	MTS
2D BRIO CLEAR 21W WH L	43142	179	MTS
2D BRIO CLEAR 28W WH L	43146	179	MTS
2D BRIO CLEAR 28W WH L EES	43147	179	MTS
2D BRIO CLEAR 38W WH L	43149	179	MTS
2D BRIO OPAL 16W WH EB	78334	179	MTS
2D BRIO OPAL 16W WH L	43155	179	MTS
2D BRIO OPAL 21W WH EB	77357	179	MTS
2D BRIO OPAL 21W WH L	43162	179	MTS
2D BRIO OPAL 28W WH EB	77355	179	MTS
2D BRIO OPAL 28W WH L	43172	179	MTS
2D BRIO OPAL 38W WH EB	77356	179	MTS
2D BRIO OPAL 38W WH L	43177	179	MTS
2D CLUB CLEAR 16W WH	43181	183	MTS
2D CLUB CLEAR 28W WH	43183	183	MTS
2D CLUB CLEAR 28W WHLEES	43184	183	MTS
2D CLUB OPAL 16W WH L	43186	183	MTS
2D CLUB OPAL 28W WH L	43193	183	MTS
2D DIAMOND CLEAR 16W WH EES	43197	185	MTS



Description	Product Code	Page Number	Product Status
2D DIAMOND CLEAR 16W WH L	43198	185	MTS
2D DIAMOND CLEAR 21W WH L	43201	185	MTS
2D DIAMOND CLEAR 21W WH L EES	43203	185	MTO
2D DIAMOND CLEAR 28W WH	43209	185	MTS
2D DIAMOND CLEAR 28W WH EES	43208	185	MTS
2D DIAMOND CLEAR 38W WH	43211	185	MTS
2D DIAMOND OPAL 16W WHL	43214	185	MTO
2D DIAMOND OPAL 21W WH L	43195	185	MTO
2D DIAMOND OPAL 28W WH L	43218	185	MTO
2DI RONDO CLEAR 18W WH	43244	181	MTS
2DI RONDO CLEAR 30W WH	43247	181	MTS
2DI RONDO OPAL 18W WH	43250	181	MTS
2DI RONDO OPAL 30W WH	43253	181	MTS
BRIO PREMIUM OPAL 2D 16W BK L 835 230V BEZEL	44569	177	MTO
BRIO PREMIUM OPAL 2D 16W BK L 835 230V GRILLE	44568	177	MTO
BRIO PREMIUM OPAL 2D 16W BK L 835 230V VISOR	44567	177	MTO
BRIO PREMIUM OPAL 2D 16W GR L 835 230V BEZEL	44442	177	MTO
BRIO PREMIUM OPAL 2D 16W GR L 835 230V GRILLE	44577	177	MTO
BRIO PREMIUM OPAL 2D 16W GR L 835 230V VISOR	44398	177	MTO
BRIO PREMIUM OPAL 2D 16W WH L 835 230V BEZEL	44379	177	MTO
BRIO PREMIUM OPAL 2D 16W WH L 835 230V GRILLE	44394	177	MTO
BRIO PREMIUM OPAL 2D 16W WH L 835 230V VISOR	44389	177	MTO
BRIO PREMIUM OPAL 2D 21W BK L 835 230V BEZEL	44515	177	MTO
BRIO PREMIUM OPAL 2D 21W BK L 835 230V GRILLE	44487	177	MTO
BRIO PREMIUM OPAL 2D 21W BK L 835 230V VISOR	44484	177	MTO
BRIO PREMIUM OPAL 2D 21W GR L 835 230V BEZEL	44440	177	MTO
BRIO PREMIUM OPAL 2D 21W GR L 835 230V GRILLE	44413	177	MTO
BRIO PREMIUM OPAL 2D 21W GR L 835 230V VISOR	44402	177	MTO
BRIO PREMIUM OPAL 2D 21W WH L 835 230V BEZEL	44535	177	MTS
BRIO PREMIUM OPAL 2D 21W WH L 835 230V GRILLE	44444	177	MTO
BRIO PREMIUM OPAL 2D 21W WH L 835 230V VISOR	44441	177	MTO
BRIO PREMIUM OPAL 2D 28W BK H 835 230V BEZEL	44541	177	MTO
BRIO PREMIUM OPAL 2D 28W BK H 835 230V GRILLE	44644	177	MTO
BRIO PREMIUM OPAL 2D 28W BK H 835 230V VISOR	44641	177	MTO
BRIO PREMIUM OPAL 2D 28W GR H 835 230V BEZEL	44479	177	MTO
BRIO PREMIUM OPAL 2D 28W GR H 835 230V GRILLE	44465	177	MTO
BRIO PREMIUM OPAL 2D 28W GR H 835 230V VISOR	44453	177	MTO
BRIO PREMIUM OPAL 2D 28W WH H 835 230V BEZEL	44563	177	MTS
BRIO PREMIUM OPAL 2D 28W WH H 835 230V GRILLE	44560	177	MTO
BRIO PREMIUM OPAL 2D 28W WH H 835 230V VISOR	44557	177	MTO
BRIO PREMIUM OPAL 2D 38W BK H 835 230V BEZEL	44608	177	MTO
BRIO PREMIUM OPAL 2D 38W BK H 835 230V GRILLE	44605	177	MTO
BRIO PREMIUM OPAL 2D 38W BK H 835 230V VISOR	44684	177	MTO
BRIO PREMIUM OPAL 2D 38W GR H 835 230V BEZEL	44639	177	MTO
BRIO PREMIUM OPAL 2D 38W GR H 835 230V GRILLE	44634	177	MTO
BRIO PREMIUM OPAL 2D 38W GR H 835 230V VISOR	44613	177	MTO
BRIO PREMIUM OPAL 2D 38W WH H 835 230V BEZEL	44612	177	MTO
BRIO PREMIUM OPAL 2D 38W WH H 835 230V GRILLE	44611	177	MTO
BRIO PREMIUM OPAL 2D 38W WH H 835 230V VISOR	44609	177	MTO
EUROSTYLO 13W WH L LPF	43402	191	MTS
EUROSTYLO 15W WH L LPF	43405	191	MTS
EUROSTYLO 18W WH EB	43408	191	MTO
EUROSTYLO 18W WH L LPF	43411	191	MTS
EUROSTYLO 30W WH EB	43416	191	MTO
EUROSTYLO 30W WH L LPF	43419	191	MTS
EUROSTYLO 36W WH EB	43421	191	MTO
EUROSTYLO 36W WH L LPF	43422	191	MTS
EUROSTYLO 58W WH EB	43426	191	MTO
EUROSTYLO 58W WH L LPF	43427	191	MTS
EUROSTYLO 8W WH L LPF	43388	191	MTS
FLAT 13W EB L	44272	193	MTO
FLAT 8W EB L	44271	193	MTO
FLAT 8W H	44186	193	MTS
FLAT13W H	44188	193	MTS
MINI-STYLO 1x14W WH EB	88760	187	MTO

Description	Product Code	Page Number	Product Status
MINI-STYLO 1x28W WH EB	88761	187	MTO
MINI-STYLO 1x8W WH EB	88759	187	MTO
STYLO 1x13W WH L LPF	43531	189	MTS
STYLO 1x15W WH L LPF	43534	189	MTS
STYLO 1x18W WH EB HPF	43541	189	MTS
STYLO 1x18W WH L LPF	43546	189	MTS
STYLO 1x30W WH EB HPF	43551	189	MTS
STYLO 1x30W WH L LPF	43554	189	MTS
STYLO 1x36W WH EB HPF	43558	189	MTS
STYLO 1x36W WH L LPF	43563	189	MTS
STYLO 1x58W WH EB HPF	43578	189	MTS
STYLO 1x58W WH L LPF	43582	189	MTS
STYLO 1x8W WH LPF	43527	189	MTS

MTO - Make To Order
MTS - Make To Stock

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