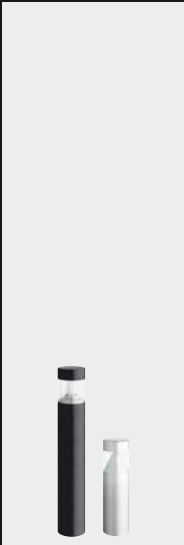




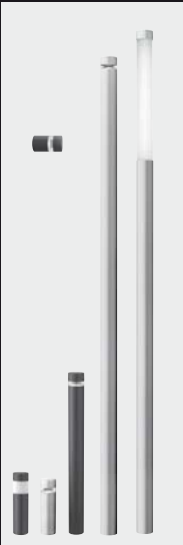
PERFORMANCE LIGHTING

CATALOGUE
OF URBAN LIGHTING
PRODUCTS
2012/2013

AMENITY LUMINAIRES



108 KHA



114 KHAslim



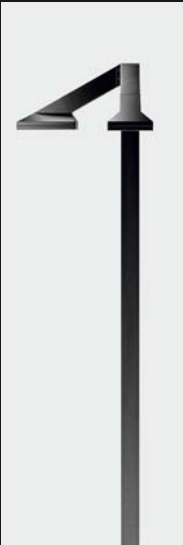
122 HEDO



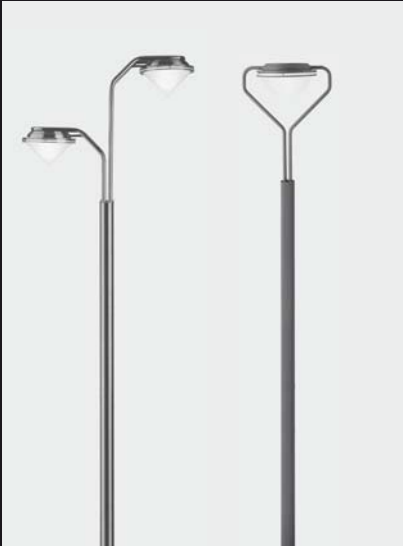
130 OIKOS



136 OLA



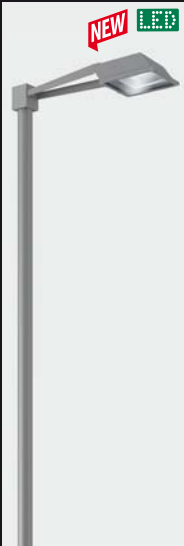
144 HORIZON



154 KONOS - GLOBUS



168 SYSTEMPARK

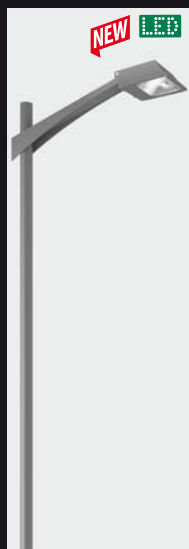


188 SQUARE

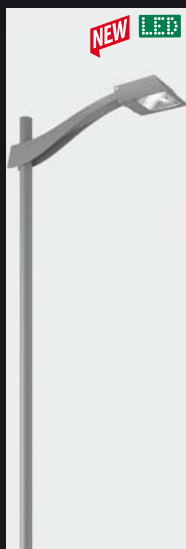


208 STAR PARK

AMENITY LUMINAIRES



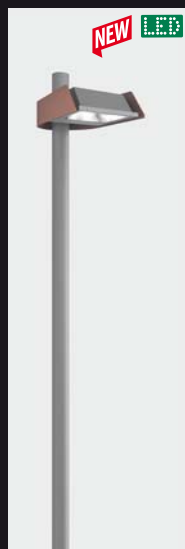
200 SQUARE BAR



202 SQUARE WING



204 SQUARE CUT



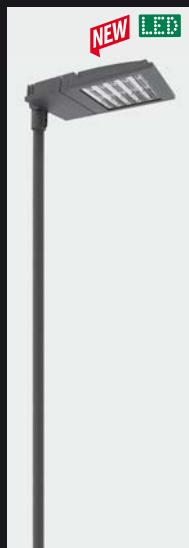
206 SQUARE SHELL

OUTDOOR MULTI USE FLOODLIGHTS



188 SQUARE

STREET LIGHTING



214 ATON



222 ATON-W



226 KYRO



HIGH POWERED FLOODLIGHTS FOR SPORT AREAS



LUMINAIRES FOR TUNNELS LIGHTING



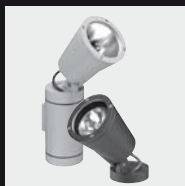
WALL MOUNT LUMINAIRES WITH LIGHT EFFECTS



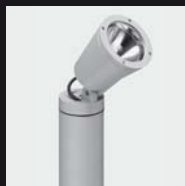
RECESSED INGROUND FITTINGS



EXTERIOR LANDSCAPING FLOODLIGHTS

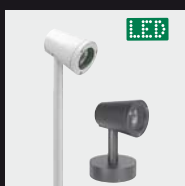


52 TYCO 20



52 TYCO 23

FLOODLIGHTS FOR SHOPS AND COMMERCIAL AREAS



40 TYCO 10



46 TYCO 11

SUSPENDED LUMINAIRES FOR COMMERCIAL AREAS



240 SKYLUM

SUBMERSION LUMINAIRES FOR POOLS AND FOUNTAIN



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SBP URBAN LIGHTING® is a brand of PERFORMANCE IN LIGHTING S.p.A.

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Archivio SBP.





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ECO LIGHT

Performance in Lighting has been a member of Consorzio Ecolight (n. 0029) since 2004.



The internal laboratory operates under the UNI EN ISO 17025:2005 standard, which allows Performance in Lighting to conduct all of the safety tests for its products. This guarantees that all products comply with all current European and extra-European standards.



All products which are subject to European Directive 95/2001 bear the mark CE.

HIGHLIGHTS

ATON LED
ATON W-LED
pag. 214

ATON LED is a range of high-performance public lighting luminaires designed and created for use with LED light sources. Thanks to their compact shape, modern design, high photometric performance, availability of different power levels and broad range of installation systems, ATON LED luminaires can be used in a variety of installation contexts for illuminating large thoroughfares, but also for residential and urban decor applications. The range conforms to the UNI 10819 standard and Italian regional laws on light pollution, and is offered in two versions:

- ATON LED for pole-top installation with attachment for Ø 60 or 76 mm poles.
- ATON-Wall LED for installation on walls or dedicated arms, available as accessories.

Both versions come with the following configurations: 35 LED, 40 LED, 55 LED, 75 LED, each available with two different colour tones: white 6000 K and white 4200 K.



OIKOS LED
pag. 130

OIKOS luminaires are designed for public lighting and urban architectural lighting applications. They are pole-top luminaires that aim to offer:

- high-performance, comfortable, uniform and flexible illumination without any light pollution;
- a wide range of light sources encompassing the latest lamp types up to 150W power, and high-power high-performance LED;
- a sober, functional design that helps the luminaires to blend into any installation context;
- quick and safe installation.

OIKOS, therefore, constitutes a modern and effective solution for illuminating pedestrian areas, squares, parking lots, etc.

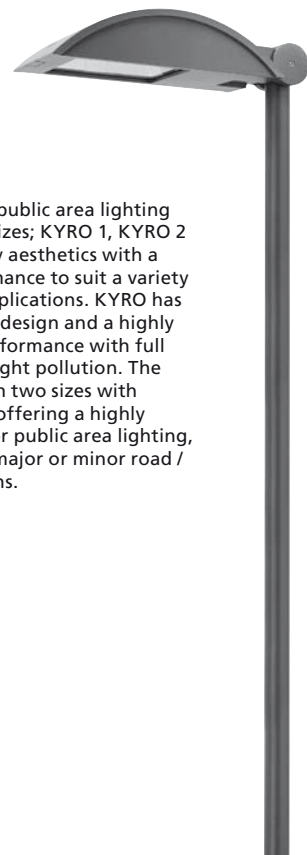




KYRO

pag. 226

KYRO high performance public area lighting fittings available in two sizes; KYRO 1, KYRO 2 combining contemporary aesthetics with a highly functional performance to suit a variety of public area lighting applications. KYRO has a compact contemporary design and a highly efficient photometric performance with full cut-off for zero upward light pollution. The KYRO range is available in two sizes with a variety of light sources offering a highly flexible fitting suitable for public area lighting, residential lighting, and major or minor road / street lighting applications.



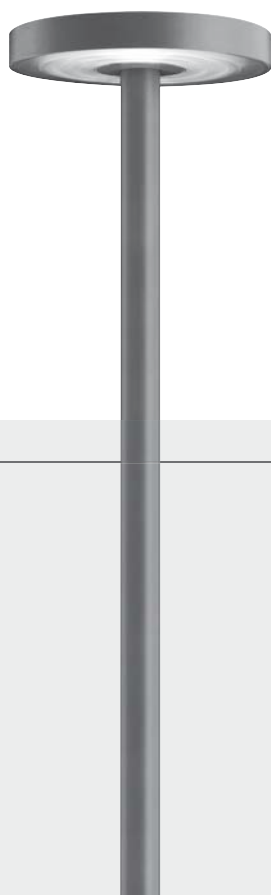
HEDO LED

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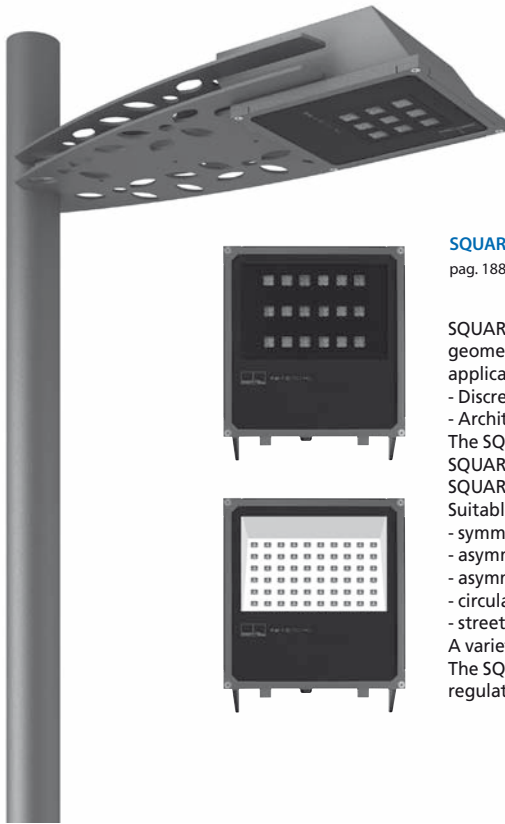
HEDO contemporary pole top luminaires suitable for residential and public area lighting, gardens, parks, paths / walkways, commercial complexes and car park lighting. Die-cast aluminium housing finished grey or stainless steel bonded.

Main features:

- Energy efficient luminaire providing high performance and efficacy with good uniformity and zero upward light pollution.
- Aesthetic design with fast retrofit fixing, onto existing pole installations, replacing old inefficient light polluting fittings.



HIGHLIGHTS



SQUARE LED

pag. 188

SQUARE are a range of high performance compact floodlights with a distinctive linear geometry and shallow depth making them suitable for various contemporary and stylish applications:

- Discreet positioning with minimum visual impact, such as lofts, eaves and terraces.
- Architectural appealing design with high performance.

The SQUARE range is available in two dimensions:

SQUARE 01 – for lamps up to 150W and high efficiency LED

SQUARE 02 – for lamps up to 400W.

Suitable for a variety of lamp sources with the following light distribution:

- symmetrical,
- asymmetrical medium beam
- asymmetrical for the illumination of pedestrian crossings
- circular narrow beam
- street lighting

A variety of lens options are available for use with SQUARE 01 LED fittings.

The SQUARE range of fittings are suitable for use in areas sensitive to sky glow where regulations require strict control of upward light pollution.



SYSTEMPARK LINE LED

pag. 168

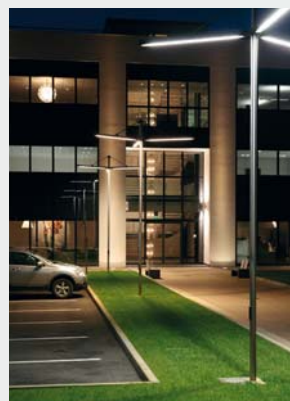
The SystemPark Line luminaires, available in three different lengths, are small in size with a minimum visual impact, thanks also to the use of linear or compact LED and fluorescent light sources.

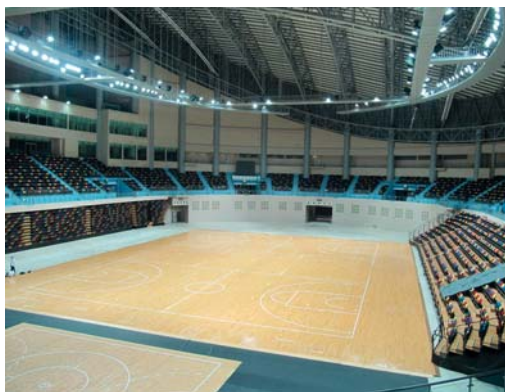
SYSTEMPARK LINE LED:

Owing to the use of specific lenses, the resulting luminous flux is characterised by good uniformity and a wide distribution, which make these products suitable for illuminating bicycle paths/footpaths, public parks, green areas and for urban decor applications. SYSTEMPARK LINE LED luminaires are available in Class II rating.

SYSTEMPARK LINE:

In models with G5 connection, one LINE luminaire can have different light emissions that can be modified by adjusting internally the light source.

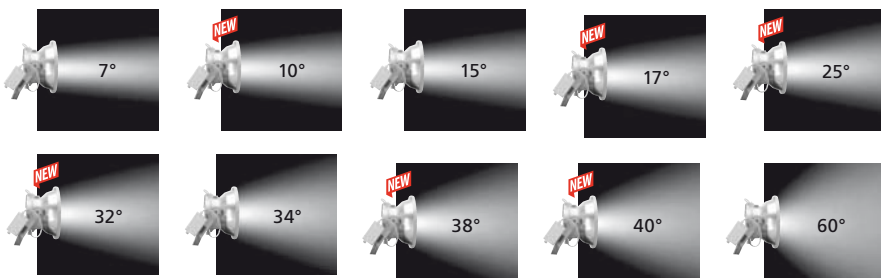




RAY
pag. 84

RAY compact lightweight high performance powerful floodlights with a range of optics, suitable for indoor and outdoor applications, combining design flexibility and performance in a competitive package.

The contemporary compact design with high quality materials and finishes makes RAY suitable for the most prestigious of installations



LED

CRICKET 168+ CRICKET 268+

pag. 2

CRICKET 168+ and 268+ is a range of recessed in-ground uplighters, suitable for a variety of light sources including LED. Offering various beam angles and lenses, these luminaires are designed to drive-over and are able to take the load and impact from motor vehicles. The fittings allow 360° rotational adjustment, whilst in situ, to assist with positioning during installation. Constructed from high quality components and materials to ensure reliability and longevity, the range is highly versatile, designed for ease of installation and maintenance.



PERFORMANCE LIGHTING

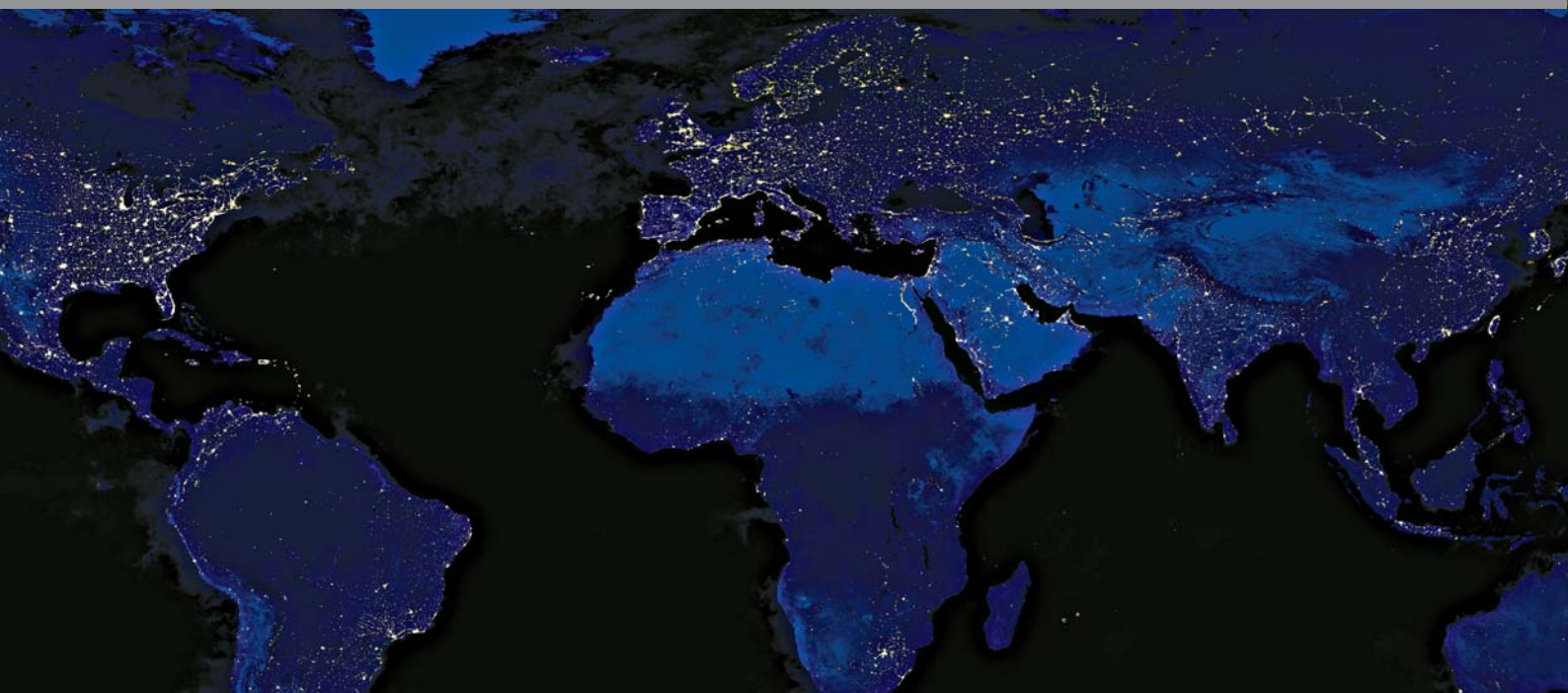
PERFORMANCE IN LIGHTING: A UNIQUE COMPANY

Performance in Lighting has been formed from the merger of a number of well known and established technical lighting companies, each tried and trusted in their own right.

Recognised for its unique professional approach and technical know-how, Performance in Lighting has combined its experience and technical expertise to become an international leader in their field.

Performance in Lighting produce high quality engineered products, designed to provide a vast array of lighting solutions to satisfy even the most demanding of projects.

Our products are sold under the brand names **Prisma Architectural**, **Spittler**, **SBP Urban Lighting**, **Prisma**, and **SBP** each having their own attributes and solutions to design and lighting.



THE DISTRIBUTION NETWORK

Performance in Lighting has a wide sales and distribution network, operating throughout **Italy and the rest of the world** through agents, branches and subsidiaries. Besides having an important and historical position in the **Italian, French, American, Belgium and German markets**, where it has production and wholly

owned subsidiaries, it also exports to more than **90 countries** worldwide.

The Performance in Lighting branches; **Netherlands, Spain, Portugal, UK, Finland and Australasia** are actively promoting and selling the Group brands.



SBP Urban Lighting is a range of luminaires designed for road and public area lighting. A wide range of optics and lamps are offered, combined with latest technology in photometric design, to comply with the recommendations for glare control and upward light pollution. Suitable for a variety of public area lighting applications; sports stadiums, road/street lighting and pathways, car parks, squares and pedestrian zones.



PRISMA[®] ARCHITECTURAL

Prisma Architectural is a collection of designed indoor and outdoor lighting products with innovative features and designs, manufactured from high quality materials they offer a comprehensive range of wall and ceiling mounted luminaires, pole mounted lighting, and in-ground recessed lighting.

SPITTLER[®]

Spittler offers a wide range of interior lighting for commercial and retail applications with an emphasis on the lighting of interior spaces and offices to the latest recommendations. Their comprehensive range of customisable downlights, suspended fittings, spotlights and projectors are an ideal choice for the lighting of interior commercial buildings, schools and retail complexes. Technical design and quality of materials combine to create performance with visual comfort to improve the quality life in the illuminated environment.



PRISMA®

Prisma Prisma offers a comprehensive range of indoor and outdoor lighting for commercial and residential applications; providing a family range of products for surface, suspended and pole mounting installation. The Prisma range combines quality materials with aesthetic designs to offer a competitive priced solution to lighting.



SBP products, which are known for their special technological performance and high quality standards, which meet the most specific and particular lighting needs. These products offer the ideal solution for the lighting of sports facilities, large industrial areas, shopping centres, buildings and residential areas.

PRODUCT DEVELOPMENT

Performance in Lighting pools productive **know-how and experience** in strategic sectors like research, development and marketing.

Product design is undertaken with the solid support of an internal structure that works with the most sophisticated **CAD programs**, compatible with all production phases. The design of the components that go into the finished luminaires is monitored down to the smallest detail of construction, and **3D simulation** allows designers to evaluate the aesthetic qualities of the finished product before beginning the mass production phase.

SAFETY TESTS

For reliability and product duration tests, Performance in Lighting has internal laboratories that operate with quality systems in compliance with the **ISO 17025** norms.

These laboratories are accredited by the Istituto Italiano del **Marchio di Qualità IMQ** (Italian Mark of Quality Institute), and can produce and sign the technical documentation necessary for the issue of the **European Certification ENEC 03**.

Products undergo the most **rigorous testing** procedures in terms of watertightness, duration in time, material safety, resistance to atmospheric agents and electromagnetic compatibility. All these processes contribute to the making of safe and dependable luminaires, with optimal constructive solutions that are easy to install and are also high performing and competitive in every way.



DESIGN



WARRANTY

The design of Performance in Lighting products is protected from possible imitations through **registration of the decorative model** in all European countries and in leading extra-European countries.

All products are covered by a **5-year warranty**, provided that they are used and maintained according to instructions. Consumable materials, such as bulbs, starters, electronic ignitors and reactors, which are compliant with warranty regulations issued by the European Directive on the subject, are not included in the warranty.

Focus on **quality, safety and duration in time** are the essential objectives of Performance in Lighting.





DESIGN ASSISTANCE

RELUXSUITE

Relux Informatik AG has developed a platform of programmes for **computerised lighting design** projects. These lighting calculation instruments allow accurate tests and measurements to be conducted with regard to natural, artificial and combined light, in various indoor and outdoor environments. Furthermore, a quotation programme integrated in the software enables **estimates and information literature**, including photometric curves, to be presented. The new version of the "Relux-Suite" software contains the calculation and design programme "ReluxPro", in addition to the lighting data of all products manufactured by the Group. This software application may be downloaded free of charge from www.relux.biz.

LIGHT PERFORMER

For more specific needs, Light Performer (version 2.0) is the **program for lighting calculations** for indoor and outdoor planning. The software lets the designer calculate and elaborate the data, and meticulously check the quality and level of lighting on all the surfaces and furnishings in an area, with the possibility of importing **DXF files** pertinent to the geometry of the area that needs lighting. With **five integrated work modules**, the program can be used to research parameters to select the most suitable product, generate renderings, manage photometric data and prepare estimates. The program can be ordered on CD ROM, or downloaded from the website. Updates about new products can also be downloaded from the site.

DIALUX

The **free, complete software for professional lighting design**. Software created by designers for designers. With DIALux, you can create your own virtual worlds in a simple, intuitive way. The results of the design are documented with **breathtaking photorealistic displays**. You can work on CAD data from other architecture programs and re-export the results with ease. **DIALux calculates the energy requirements of the solution identified** and helps you comply with national and international regulations. DIALux is free of charge and available in many languages as a free download from our site.



Performance in Lighting is a **founding member of Ecolight** (Italy), a consortium created to address and solve **problems of an ecological nature** involving luminaires, and is also a member of similar associations throughout Europe.

Performance in lighting has long promoted the use of new **high efficiency bulbs** by producing luminaires that have been specially studied for fluorescent or LED bulbs, and by proposing energy saving bulbs that offer an alternative to the traditional incandescent ones published in its catalogue.

Performance in Lighting makes use of superior quality **electronic reactors** or **reactors with a very low loss** to contribute towards optimising the use of energy.



THE ENVIRONMENT: A PROJECT COMPONENT

Respect and focus on the environment underpin product design and development operations carried out by Performance in Lighting. The company has always privileged and deemed **noble materials** that have a minor impact on the environment as a primary goal.

Glass, a 100% recyclable noble material, has always distinguished the product, and so have the **technopolymers** used, which meet very high quality standards and are totally recyclable. **Aluminium**, in its various alloys, used in Performance in Lighting products, is treated to resist weathering and ensure durability.

All products have been developed with the utmost compliance with the **European Directive 2002/95/CE RoHS** and therefore do not contain dangerous substances or metals. Each luminaire is designed to facilitate separation and recovery of the various component materials once it has finished its useful lifetime, and is therefore **98% recyclable**.



Performance in Lighting pays particular attention to the laws that regulate the dispersion of light towards the sky and the advantageous use of energy.

The company has a state-of-the-art photometric laboratory and specific software for **designing reflectors to enable development of high efficiency luminaires**.

Performance in Lighting prints its catalogues only on **paper from properly managed forests and specially grown trees**.

The Performance in Lighting plant based in Colognola ai Colli uses clean solar energy generated by a photovoltaic plant with **138 kWp** nominal power, which allows for obtaining **97% performance** with the aid of a high-quality inverter. The 150,000 kWh annual energy production allows for **fully covering the plants electricity needs**.



photo: Alessandra Garusi for CINI (Kolkata - India)

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web www.fondazione-blu.org



FONDAZIONE BLU: FOR A FUTURE OF SOCIAL DEVELOPMENT

Performance in Lighting is a supporter of **Fondazione Blu**, an association founded with goal of guaranteeing the **right to care and education** in early childhood to children living in the poorest areas of the planet. Contributions to the Foundation make up the basis for the long term financing of its projects.

Fondazione Blu is dedicated, maintains the **utmost transparency in its operations**, and periodically documents its results. These practices are proof of its commitment to building a solid, sustainable future of large-scale social development.



web www.fondazione-blu.org



NIDO BLU

The well being of children and their working parents is one of the main reasons behind Fondazione Blu, and the inspiration for the creation of **Nido Blu** by Performance in Lighting, a day care centre open since September 2002 at one of the main offices of the company in the province of Verona.

This centre is designed to accommodate children aged 7 to 36 months, the sons and daughters of employees of companies in the area, and provide them with a **socio-pedagogical program** approved by the **Veneto Region**.

Nido Blu is self-managed by a cooperative, made up of personnel specialised in the care and education of small children.

Connected with the Nido Blu there is the **Fattoria Didattica** (Learning Farm), an organisation where several pairs of different species of animals are cared for, with the goal of **acquainting children with nature** at a very young age, in a spontaneous and direct way just like on a real farm.

This structure, which has an area of 7000 m², is managed by Performance in Lighting employees, who cooperate as volunteers in collaboration with the public veterinary service.

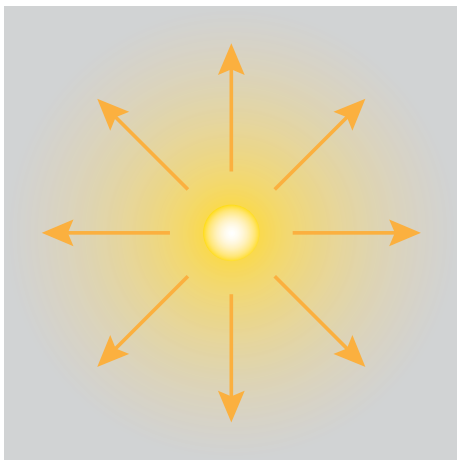
LUMINOUS FLUX

The **luminous flux** (Φ) represents the power radiated from a light source with reference to the spectral sensitivity of the human eye.

Its unit of measurement is the lumen (lm).

It differs from the radiant flux which, on the other hand, measures the total power of electromagnetic radiation emitted (infrared, ultraviolet and visible light).

Closely related to the luminous flux is the concept of **luminous efficiency**. Luminous efficiency is the ratio between the flux emitted by the source and the energy required to produce it. In this way, we can determine the difference in efficiency between one lamp and another, in terms of energy savings.



LUMINOUS INTENSITY

Luminous intensity (I) is the amount of light emitted by a point source in a certain direction per unit solid angle. It is measured in candelas (cd).

In the International System, luminous intensity is considered the fundamental quantity for photometric measurements from which all others are derived.

Luminous intensity is, therefore, the ratio between the flux emitted (Φ) and the solid angle cone in which the beam (ω) is included.

$$I = \Phi / \omega$$

ILLUMINANCE

Illuminance (E) is the result of the relationship between the luminous flux (Φ) emitted by a source and the illuminated surface area S ($E = \Phi/S$).

The unit of measurement of illuminance is the lux (lx), which is defined as the illuminance produced on a surface perpendicular to the rays from a source placed at a distance of 1 metre with the luminous intensity of one candela.

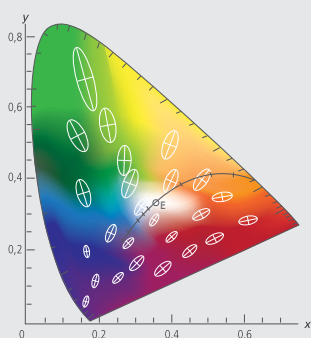
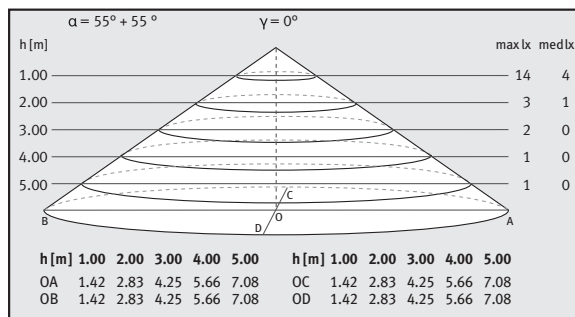
This quantity is used in both indoor and outdoor lighting engineering and legislation on health and safety in the workplace.

CRITICAL ANGLE OF RADIATION

The critical angle of radiation describes the angle in the case where the luminance per unit is below a certain value and it is necessary to evaluate glare limits.

HALF PEAK INTENSITY ANGLE

The size of the half peak intensity angle refers primarily to lighting luminaires such as **spotlights** and **reflectors**. It describes the angle at which the luminous intensity becomes equal to half the maximum intensity emitted.



CIE 1931 Diagram

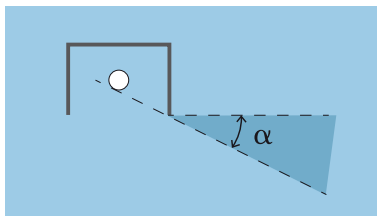
In 1931, the Commission Internationale de l'Eclairage (International Commission on Illumination) defined a colour space that includes all the colours visible to the human eye, i.e. electromagnetic radiation with wavelengths between 380 nm (ultraviolet) and 780 nm (infrared).

The curve of this model delimits the range of visible colours, from violet to red, and reproduces a figure that is almost triangular. At the centre of this triangle is the point E, known as the achromatic point, which represents the area conventionally called white light, even if in variable hues: cooler (blue, 6,500 K) or warmer (yellow/red, 3,200 K).

SHIELDING ANGLE

Light sources can cause **glare** and impair the vision of objects. This must be prevented by properly shielding lamps.

Legislation relating to indoor lighting includes minimum shielding angles for luminaires.



Lamp luminance in cd/m ²	Minimum shielding angle
20.000 to < 50.000 e.g. fluorescent lamps (high output) and compact fluorescent lamps	15°
50.000 to < 500.000 e.g. high-pressure discharge lamps and incandescent lamps with matt and inside-coated bulbs	20°
≥ 500.000 e.g. high-pressure discharge lamps and incandescent lamps with clear bulbs	30°



LUMINANCE LIMITS FOR LIGHTING WORKSTATIONS WITH COMPUTERS

In lighting **workstations with computers**, limits are set for the average luminance of the luminaire at elevation angles greater than 65° from the vertical.

For workstations using screens that are vertical or tilted by up to 15°, the limits are:

Screen high state luminance	High luminance screen $L > 200 \text{ cd/m}^2$	Medium luminance screen $L \leq 200 \text{ cd/m}^2$
CASE A (positive polarity and normal requirements concerning colour and details of the shown information, as used in office, education, etc.)	$\leq 3.000 \text{ cd/m}^2$	$\leq 1.500 \text{ cd/m}^2$
CASE B (negative polarity and/or higher requirements concerning colour and details of the shown information, as used for CAD colour inspection, etc.)	$\leq 1.500 \text{ cd/m}^2$	$\leq 1.000 \text{ cd/m}^2$
NOTE: Screen high state luminance (see EN ISO 9241-302) describes the maximum luminance of the white part of the screen and this value is available from the manufacturer of the screen.		

LUMINANCE

Luminance (L) is the ratio between the luminous intensity in a certain direction and the projection of the area of emission onto a plane perpendicular to the direction of observation. It therefore represents that value the parameter of which provides an indication of how an environment or surface will appear illuminated to our eye. Luminance is independent of the direction of observation only in the case where the surface is Lambertian.

It is expressed in cd/m².



COLOUR TEMPERATURE

Colour temperature is used in lighting engineering to identify the **hue of light**. Its unit of measurement is the kelvin (K). The spectrum of light emitted by a black body has a peak emission determined by its temperature. This same principle can be applied to a light source even though it differs from the black body. The colour temperature of a given light radiation is therefore considered as the temperature that a black body should have so that the light radiation emitted by it is chromatically as similar as possible to the radiation considered. For example a temperature of about 2,000 K will give a yellow-orange colour. Lowering this threshold, we will have red and afterwards infrared, i.e. wavelengths that are no longer visible to the human eye. Increasing the temperature, on the other hand, will gradually give a whiter light until reaching blue-violet and finally ultraviolet. In brief, a warm light will have a low colour temperature and a cool light will have a high colour temperature.

UNITS OF MEASUREMENT

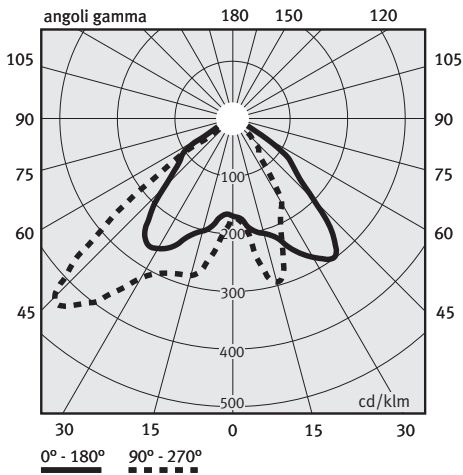
Quantity	Radiometric	Photometric
power	watt (W)	lumen (lm)
power per unit area	W/m²	lm/m² = lux (lx)
power per unit solid angle	W/sr	lm/sr = candela (cd)
power per area per solid angle	W/m² · sr	lm/m² · sr = cd/m² = nit

LOR

LOR (light output ratio) is the ratio between the flux emitted by the luminaire and the total flux of the lamp contained in it (Φ_u/Φ_{tot}). Being a ratio of two quantities of the same type, LOR is generally expressed as a **percentage**.

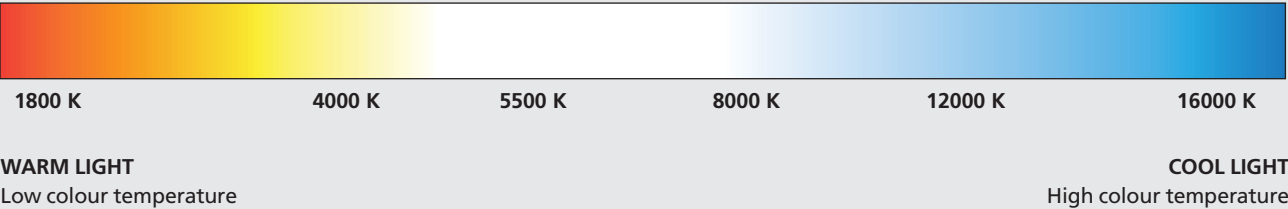
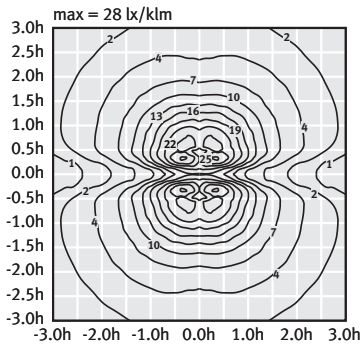
PHOTOMETRIC CURVES

Photometric curves consist of a two-dimensional representation (vertical planes passing through the optical centre of the luminaire) of the photometric solid i.e. the intensity emitted in all directions from the light source. The luminous intensity distribution is normally represented in the two main planes that are perpendicular to each other.



ISOLUX CURVES

Isolux curves represent the union of the points of the plane having the same value of illuminance (lux).





LIGHT POLLUTION

Light pollution is characterised by the highest emission ratio that represents the percentage of luminous flux emitted in the upper hemisphere in relation to the total flux emitted.

In Italy the **UNI 10819 standard** prescribes the requirements of outdoor lighting installations based on the classification of installations and areas. There are also a number of existing regional regulations featuring measures related to saving energy used for outdoor light and the fight against light pollution.

In the **absence of a PRIC (Municipal Lighting Plan)** the UNI 10819 standard provides the following requirements:

Type of installation	Rn%		
	ZONE 1	ZONE 2	ZONE 3
A road	1	3	3
A Non-road, B, C, D	1	9	23

If there is a **PRIC**:

Type of installation	Rn%		
	ZONE 1	ZONE 2	ZONE 3
A, B, C, D	1	5	10
E	Not permitted	Permitted if subject to a regulated timetable	Permitted



Installation classification:

- **A:** Installations in which security is paramount.
(e.g. street lighting, public green areas, risk areas, large areas)
- **B:** Sports facilities, shopping and recreational centres, private installations and parks
- **C:** Installations of environmental and monumental interest
- **D:** Advertising installations
- **E:** Temporary and decorative installations
(e.g. Christmas lights)

Zone classification:

- **ZONE 1:** protected zone with a radius from the centre of observation of 5 km
- **ZONE 2:** protected zone around zone 1 or around national and/or popular observatories with a radius from the centre of observation of 5, 10, 15 or 25 km depending on the importance of the centre
- **ZONE 3:** area not classified as zone 1 or 2

Regional laws relating to light pollution normally impose more stringent restrictions. Each region has special provisions which differ from region to region.

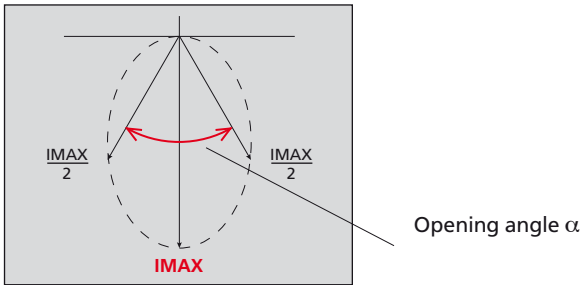
IDENTIFYING AND CLASSIFYING THE OPTICS

Performance in Lighting luminaires offer different types of optics depending on project requirements. The optic can be identified as the set of equipment designed to direct the light generated by a light source in a particular direction, thus determining the luminous emission of the luminaire itself.

Depending on this luminous emission, Performance in Lighting classifies optics in the following categories:

- Circular (or roto-symmetrical) optics
- Elliptical optics
- Symmetric optics
- Asymmetric optics
- Road optics
- Optics for pedestrian/cycle paths
- Optics for pedestrian crossings

The diagram below identifies the data that will be contained in subsequent pages, regarding the opening angle of the beam.

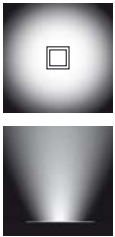


IMAX = maximum luminous intensity, i.e. the maximum intensity of the emitted light beam.

Opening angle of the light beam = angle in a plane passing through the axis of the beam limited by the directions of the luminous intensities equal to 50% of the I_{max}. Based on the opening value α , we can find intensive, medium or wide optics.

By convention we consider/classify:

Type of beam opening (α)		Identification marking
Intensive	($0^{\circ} \leq 20^{\circ}$)	I
Medium	($21^{\circ} \leq 45^{\circ}$)	M
Wide	($46^{\circ} \leq 75^{\circ}$)	W
Extra Wide	($>75^{\circ}$)	EW



CIRCULAR OPTICS

Performance in Lighting identifies those optics that generate a luminous emission with a symmetry of revolution about the A axis as circular optics. The opening angle of the beam is generally constant in all planes. The reflectors generating these optics generally have a circular opening.

EXAMPLE

Circular optic code: C/xx
where:

C = Circular

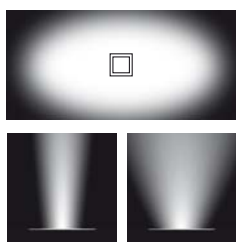
xx = the abbreviated name of the opening angle

For example: C/I - C/M - C/W - C/EW

Multiple optics within the same range of opening will be distinguished by inserting the numerical value of the beam opening at the end.

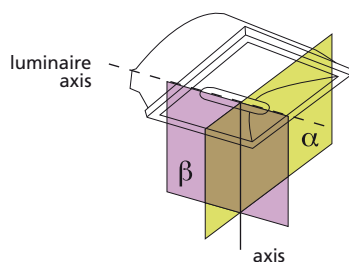
For example: C/W45 - C/W60

CIRCULAR OPTIC NAME		
Mandatory indications		Additional indications
Type of optic	Type of opening	Angolo di apertura
C	I	$0^{\circ} \div 20^{\circ}$
	M	$21^{\circ} \div 45^{\circ}$
	W	$46^{\circ} \div 75^{\circ}$
	EW	over 75°



ELLIPTICAL OPTICS

For Performance in Lighting, elliptical optics are circular but differ from roto-symmetrical circular optics because the opening of the light beam on planes α and β is symmetric, but differs greatly between the two. The light distribution is highly elliptical.



EXAMPLE

Elliptical optic code: E α x β

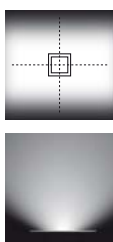
where:

E = Elliptical

α = Opening of the light beam on plane α expressed in degrees

β = Opening of the light beam on plane β expressed in degrees

For example: E 10°x45°



SYMMETRIC OPTICS

For Performance in Lighting, symmetric optics are ones with symmetric emission in relation to planes α and β .

The symmetry between the two planes may be either identical

(in this case we are dealing with optics with square light distribution) or different (optics with rectangular light distribution).

EXAMPLE

Symmetric optic code: S/xx

where:

S = Symmetric

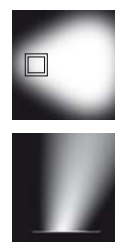
xx = the abbreviated name of the opening angle

For example: S/I - S/M - S/W - S/EW

By convention, we consider the beam opening of plane α .

Multiple optics within the same range of opening will be distinguished by inserting the numerical value of the beam opening at the end.

For example: S/W50 - S/W60



ASYMMETRIC OPTICS

For Performance in Lighting, asymmetric optics generally have asymmetric light distribution on plane α with a point of maximum concentration.

The axis passing through the point of maximum concentration and the point marked by the axis of the lamp is called the I_{max} axis.

The light distribution on plane β , on the other hand, may be symmetric or asymmetric.

An asymmetric optic may be symmetric in relation to one plane only.

EXAMPLE

Asymmetric optic code: Ayy/xx

where:

A = Asymmetric

yy = numeric value of the I_{max} angle. The I_{max} angle is the angle between axis A and the I_{max} axis.

xx = the abbreviated name of the opening angle

For example: Ayy/I - Ayy/M - Ayy/W - Ayy/EW.

By convention, the beam opening of plane α is considered.

For example:

A30/I = Asymmetric axis with I_{max} 30° and Medium opening

A45/I = Asymmetric axis with I_{max} 45° and Intensive opening

In the presence of multiple asymmetric optics with the same I_{max} value and same beam opening range, it will be necessary to distinguish them by adding the numeric value of the beam opening at the end.

For example: A45/M25 - A45/M40

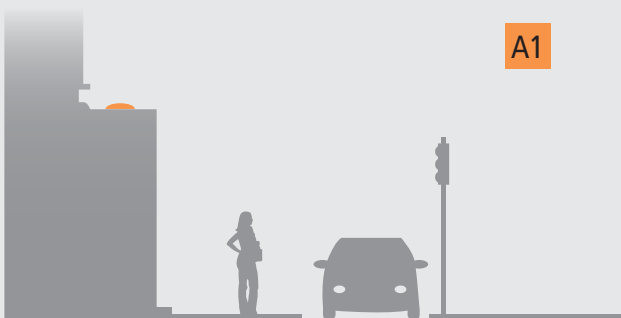
SYMMETRIC OPTIC NAME		
Mandatory indications		Additional indications
Type of optic	Type of opening	Opening angle plane α
S	I	0° ÷ 20°
	M	21° ÷ 45°
	W	46° ÷ 75°
	EW	over 75°

ASYMMETRIC OPTIC NAME			
Mandatory indications			Additional indications
Type of optic	I_{max} angle	Type of opening	Opening angle plane α
A	Numeric value of the I_{max} angle	I	0° ÷ 20°
		M	21° ÷ 45°
		W	46° ÷ 75°
		EW	over 75°



A1

A2



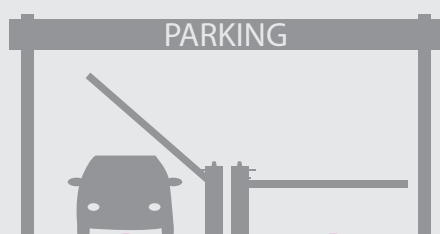
INSTALLATION AREAS FOR IN-GROUND LUMINAIRES

The European standard **EN 60598-2-13** defines the areas suitable for installing in-ground luminaires according to the static load, the protrusion from the ground of the diffuser and the temperature of the diffuser itself. These luminaires make it possible to determine whether the luminaire is suitable for specific situations (transit of vehicles, pedestrian pathways, play area etc.).

To facilitate luminaire selection, the following pages show the code of the areas in which installation is permitted, according to the aforementioned standard and the technical specifications, for each individual product.

INSTALLATION AREA	P Static load (kN)	H Height (mm)	T Temperature (°C)
A1 NO TOUCH AREA installation area inaccessible to persons and vehicles	(not applied)	(not applied)	(not applied)
A2 AREA SUBJECT TO FOOT TRAFFIC installation area with limited access ($h \leq 5 \text{ mm}$) (e.g. areas reserved for pedestrians, cyclists etc.) in areas not subject to foot traffic ($h \leq 25 \text{ mm}$) (e.g. near walls, buildings etc.)	$\geq 5 \text{ kN}$	$\leq 5 \text{ mm} / \leq 25 \text{ mm}$	$\leq 100^\circ \text{ C}$
A3 AREA SUBJECT TO VEHICLE TRAFFIC installation area accessible to vehicles (e.g. areas subject to vehicle traffic, car parks etc.)	$\geq 20 \text{ kN}$	$\leq 75 \text{ mm}$	$\leq 80^\circ \text{ C}$
A4 AREA SUBJECT TO VEHICLE TRAFFIC PLUS installation area accessible to snow plows or where de-icing agents are used in areas not subject to foot traffic ($h \leq 25 \text{ mm}$) (e.g. near walls, buildings etc.)	$\geq 20 \text{ kN}$	$\leq 5 \text{ mm} / \leq 25 \text{ mm}$	$\leq 80^\circ \text{ C}$
A5 AREA SUBJECT TO FOOT TRAFFIC TOUCH special installation area where operating temperatures can cause injury (e.g. environments for children, swimming pools etc.) in areas not subject to foot traffic ($h \leq 25 \text{ mm}$) (e.g. near walls, buildings etc.)	$\geq 5 \text{ kN}$	$\leq 5 \text{ mm} / \leq 25 \text{ mm}$	$\leq 40^\circ \text{ C}$

A3



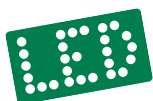
A4



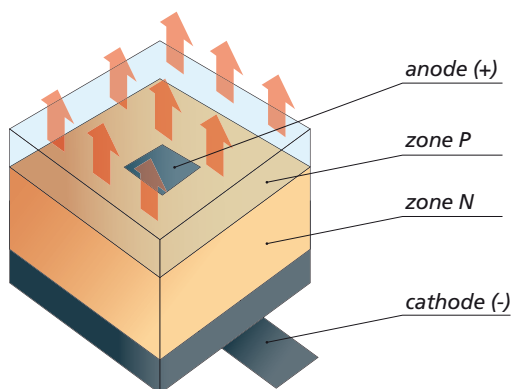
A5



A RENEWED PHILOSOPHY OF WORKING



Following on from our first LED products, produced in the mid-nineties, designed to mark and light pedestrian pathways, the Performance in Lighting Group has adopted a renewed, **electronic oriented philosophy of working**. With our own on site laboratory and highly qualified personnel, we have developed LED fittings that are highly efficient, reliable and of high quality. Our close **collaboration with the best LED manufacturers** (CREE, CITIZEN, SEOUL, LUMILEDS and OSRAM), has combined with our expertise in the world of lighting fittings, enabling innovative solutions in terms of optical and thermal performance to be developed. The use of LEDs in the Performance in Lighting fittings has required **research and development** into new areas alongside electronics, which has resulted in the creation of efficient and reliable lighting fittings, as is the tradition of the Group.



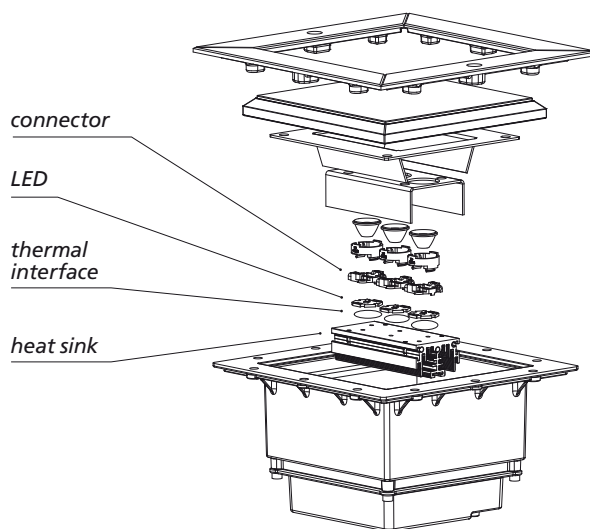
WHAT IS A LED?

A **LED (Light Emitting Diode)** is an electronic component with a "P-N" semiconductor junction which, if a current passes through it, can emit photons in the form of light radiation. This phenomenon is called **electroluminescence**. Depending on the type of construction of the LED board, it can operate with either **constant current or constant voltage**.

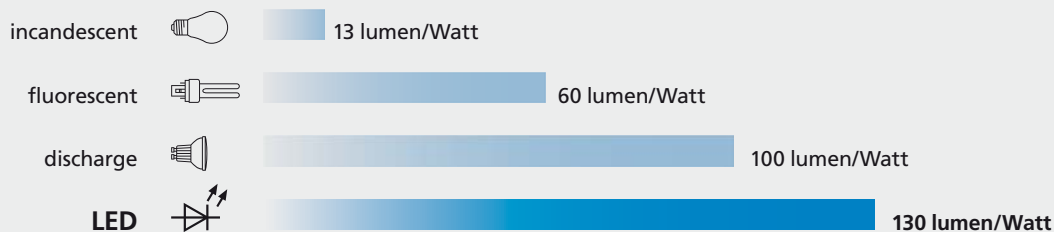
THE ADVANTAGES OF PERFORMANCE IN LIGHTING LED FITTINGS

The advantages of Performance in Lighting LED fittings Performance in Lighting fittings have been developed in close collaboration with major LED manufacturers. This brings many benefits:

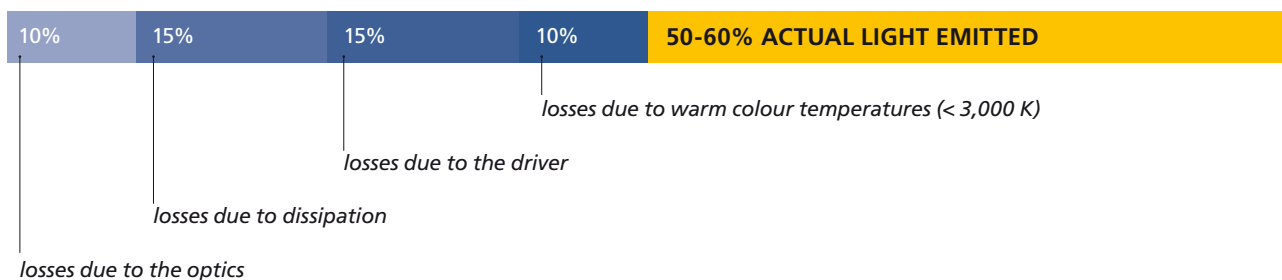
1. Careful design of the whole **LED+thermal interface+heat sink+ballast** system.
2. **Painstaking thermal monitoring** of all LED developments which, compared to traditional light sources, require control and testing times that are 30% longer. This ensures reliability, durability, safety and photometric performance in line with sector standards.
3. The development of **high reflection aluminium optics**, or high efficiency thermoplastic materials.
4. An **accurate heat dissipation system**, tested and optimised in our laboratory at the research stage, able to respect and guarantee the performance and durability declared by LED manufacturers.
5. The ability to provide intelligent products, designed to integrate with existing **communication or bus management systems** (such as DALI or DMX).
6. A **consultancy and analysis service** for special customer requests.
7. The ability to simulate and **develop specific optics**, meeting the various design requirements and **using dedicated software**.
8. The ability of our **Technical Department** to define the layouts of the printed circuit boards for LEDs as regards the materials, the insulation and the distances in air in accordance with industry standards.



LUMINOUS EFFICACY



100% Lumen declared by the LED manufacturers



LUMINOUS EFFICACY

Whilst for fittings with traditional light sources, we speak about performance, for fittings with LED light sources, we use the term luminous efficacy, which indicates the ratio between **the power absorbed and the amount of light emitted by the lighting fitting**.

Luminous efficacy is expressed in lumens/W (lm/W).

An incandescent lamp has a luminous efficacy of 13-15 lm/W, while for a fluorescent lamp it is 60-70 lm/W and a gas discharge lamp 100-110 lm/W.

The current luminous efficacy of a LED chip is approximately 130 lm/W, but as it is a source that is constantly evolving, we can still expect **ongoing, significant improvement**.

The luminous efficacy used to describe the LED board is measured in **optimum operating conditions**, without the constraints that inserting a lighting fitting inevitably involves.

In fact, even in the presence of correct heat dissipation, we nevertheless experience a loss of output of 6-10% (poor dissipation can result in a loss of output of 50% and a reduction in the duration of the LEDs).

Excessive temperature also affects the correct operation and durability of the driver, and leads to a reduction in the output of about 15%.

If the LED light source requires an optic, we should expect a further decrease in output of 10-15%.

In addition, LED manufacturers tend to highlight the luminous efficacy obtained with LEDs with cool colour temperatures, but warm tones cause a further drop in output of 10%.

It follows that a **LED light fitting can emit 50-60% of the actual light emitted by the LEDs** (or LED modules).

As the rated lm/W declared by the LED manufacturers is theoretical data, it is important to focus on the actual performance of the fitting.

It is recognised that **there is no correlation between a better performing LED and a better performing fitting, but there are simply fittings with varying levels of efficiency and reliability**, the result of consolidated company expertise, which never loses sight of clear price and market objectives



ENERGY SAVINGS

Comparing LEDs with conventional light sources, you may notice that they consume about 80/90% less than traditional incandescent lamps and about 30/40% less than fluorescent lamps.

From an energy saving viewpoint, we can say that LEDs, compared to traditional light sources **with the same power consumption, emit more light, or, with the same level of light emission, consume less**.

In addition, if used in a properly designed fitting with good heat dissipation, the LED ensures significant **maintenance costs**, with regards to its **longer life** and reduced **disposal costs**.

ENERGY SAVINGS



THERMAL INTERFACES (THERMAL MANAGEMENT)

In order to achieve good heat dissipation, it is necessary to provide optimal conditions for coupling and heat transfer between the LED board and the heat sink itself.

For this reason, Performance in Lighting LED fittings are equipped with **specific thermal interfaces, known as gap fillers**, positioned between the LED board and the heat sink device, to ensure perfect, continuous thermal contact between the two components.

These gap fillers may be made using different materials and technologies according to the different thermal regimes, the nature of the materials and the environment in which the fitting is installed.

Excessive temperatures have a negative effect on the duration of the LEDs, but also on electrical parameters such as the emitted wavelength, the colour temperature (CCT) of the LED, the direct voltage drop (V_f = Forward voltage) and its efficiency.

To overcome this problem, the thermal resistance between the junction and the outside of the container must be as low as possible.

For this reason, Performance In Lighting uses **high-tech thermal interfaces, such as graphite or phase change material (PCTIM- Phase Change Thermal Interface Material)**.

This is a special film interposed between the LED board and the heat sink which, once the operating temperature, has been reached, changes state (from solid to viscous), enabling perfect filling of all imperfections on the surface on which it rests. This therefore eliminates harmful "air bubbles", typical of thermally conductive pastes, and the difficulties of applying the thermally conductive double-sided adhesive (a fingerprint on the double-sided adhesive compromises the effectiveness by more than 20%).

HEAT DISSIPATION

In order to work with electrical and thermal parameters that safeguard its durability, the LED must have **proper heat dissipation**.

Active or passive dissipation mechanisms must therefore be in place to ensure it is possible to extract the heat and then disperse into the fitting or surrounding environment as uniformly as possible.

The correct thermal operating regime is achieved by developing supports with suitable dissipating geometries according to the type of LED, the material used, the fitting, the assembly position and its level of seal.

The long-established on-site Performance in Lighting laboratory has been testing, researching and evolving in the field of electro-thermal LED measurements for ten years, with **internal test protocols that go beyond the normal standards prescribed in the regulations**.

OPTICS

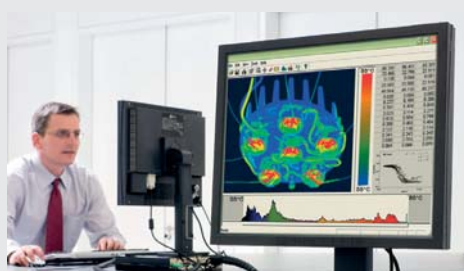
Power-LEDs generally come in two types: **as a point source or as a module**. Both types, depending on their characteristics, can be integrated into a particular design or optic designed for a specific purpose.

These narrow or wide beam optics consequently modify the beam of light emitted, unless action is taken by designing an optic to achieve asymmetric beams that perform many different tasks (street lighting, wall-washer...)

Each photometric curve released is the result of photometric surveys and analysis carried out in the PIL Group **photometric laboratories**, equipped with two "T2" and one "moving head" goniophotometers.



Performance in Lighting has developed different types of heat sink to adapt to the technical requirements of each product.





COOL WHITE

WARM WHITE

NEUTRAL WHITE

THE COLOURS OF WHITE

Unlike conventional light sources, with LEDs, you can choose the shade of white light that best suits the various environments of use.

COOL WHITE shade

(cool white: > 5000 K)

This is particularly suitable for outdoor applications, for high flux and high brilliance.

WARM WHITE shade

(warm white: < 3300 K)

This is a comfortable warm light which, by mimicking the emission of the incandescence, adapts to indoor environments.

NEUTRAL WHITE shade

(neutral white: 3300/5000 K)

This is the right balance between brightness, tone and colour rendering, often required when adding to or combining with existing light sources.

LED light is nevertheless always free of ultraviolet or infrared emissions: ensures high colour rendering and does not cause colour change on the illuminated element. The place, the object to be illuminated or enhanced, the way in which the light is diffused and the desired result naturally have a direct impact on the type of light to be used.

CHEAPER RUNNING COSTS

Against a higher initial cost, LED fittings provide **savings over time** in terms of both system maintenance costs, dramatically reducing the need to replace the light sources, and energy consumption

TRADITION RENEWED

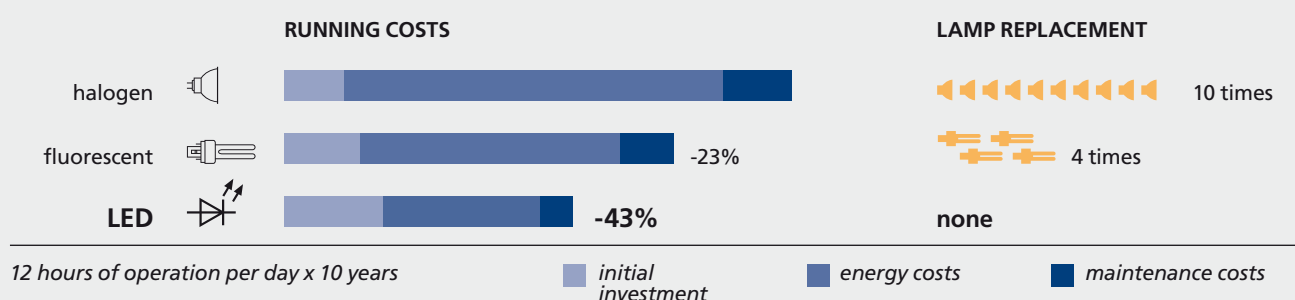
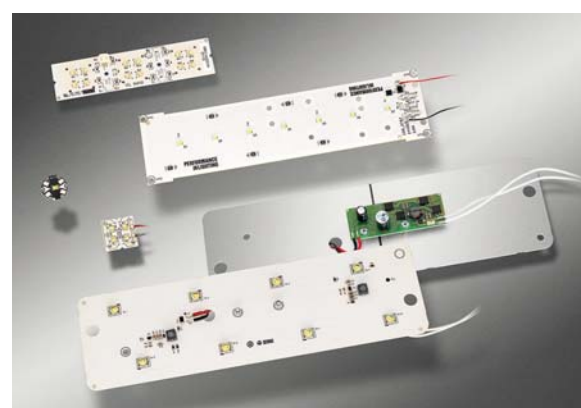
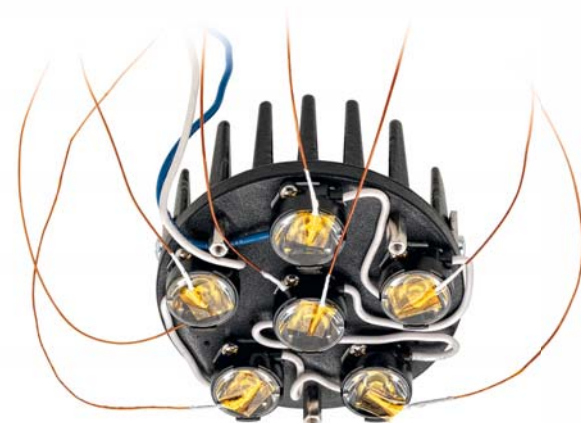
Continuing with our tradition based on the reliability of the product, service, safety and security, we took on the challenge and opportunities offered by these **new light sources**.

For Performance in Lighting, it has always been a priority to ensure a technically advanced, reliable and safe product, with performance that meets the expectations of our customers.

Many of the Group's long-established products were therefore studied and suitably modified to combine tradition with technological innovation.

We are now able to offer solutions with **MULTICHIP-LED** light sources (easy solution) and ensure effective energy savings, obtained by complying with the quality and performance-related targets that make Performance in Lighting stand out.

Thanks to a long testing period in the laboratory, even for the classic products now available in a LED version, Performance in Lighting offers a **5-year warranty** on performance and reliability.



PROTECTION CLASSES

IP 20	Protected from solid bodies of $\geq 12,5\text{mm}$ diameter. Not protected against water.
IP 23	Protected from solid bodies of $\geq 12,5\text{mm}$ diameter. Protected against rain to a maximum of 60° to the vertical.
IP 30	Protected from solid bodies of $\geq 2,5\text{mm}$ diameter.
IP 33	Protected from solid bodies of $\geq 2,5\text{mm}$ diameter. Protected against rain to a maximum of 60° to the vertical.
IP 40	Protected from solid bodies of $\geq 1\text{ mm}$ diameter. Not protected against water.
IP 54	Protected against dust. Protected against water sprays.
IP 55	Protected against dust. Protected against water jets.
IP 65	Totally protected against dust. Protected against water jets.
IP 66	Totally protected against dust. Protected against strong jets.
IP 67	Totally protected against dust. Protected against the effects of short immersion.
IP 68	Totally protected against dust. Protected against the effects of permanent immersion.

TECHNICAL CHARACTERISTICS

	Functional insulated luminaire with earthing facility. Class I luminaires feature an earth terminal which is marked with the earth symbol I.
	Exposed conductive parts; protective earth required.
	Double insulated; designed without the need for protective earth.
	Designed for use on SELV (Safety Extra Low Voltage) supply.
	Luminaires bearing this symbol can be mounted on normally inflammable surfaces.
	Luminaires bearing this symbol must use self-protected lamps only.
	Minimum distance between the lit object and the luminaire.
IK06 0,5J	Code identifying the degree of protection provided by enclosures for electrical equipment against external impacts and related energy. CEI EN 50 102.

IK ...
... J

Protection degree of the housing against mechanical impacts (Joule).

IK	00	01	02	03	04	05	06	07	08	09	10
J	----	0,15	0,20	0,35	0,50	0,70	1	2	5	10	20

ILCOS CLASSIFICATION

The ILCOS classification grants to the principal lighting sources an unequivocal, standard and worldwide code based on the IEC/TS 61231 technical specification.

ILCOS		Old Denomination
FD		T8
FDH		T5
FSC		T9
		T5
FSD		–
		–
FSM		/T
FSQ		–
FBT		–
FBC		(Gx53)
FSS		2D
		Dulux Flat
TC-DD		2D
HAG		Halopar 20 (aluminium coated)
		Halopar 30 (aluminium coated)
		Halogen 230V (aluminium coated)
		Halogen 12V (aluminium coated)
		Tube lamp
HAG ES111		Halogen ES 111
HDG		Halogen (l. 114,2 mm)
		Halogen (l. 74,9 mm)
HMG5		–
		–
HRG		Halopar 20 (dichroic)
		Halopar 30 (dichroic)
		Halogen 230V (dichroic)
		Halogen 12V (dichroic)

ILCOS		Old Denomination
HSG		Halogen 12V
		Halogen 230V Halopin
		Halogen 230V
HRGS		Halogen ES 111 (dicroico)
IAA		–
IBP		40 mm Golf bulb
		40 mm Golf bulb
IBS		Pygmy
IBT		–
IPAP		PAR 38
MD		JM/TS
ME		JM
MRS/UB		JM 111
		JM
MT		JM
		JM
CDM-TM		–
CMH-MR16		–
PAR 20		–
SDW-TG		–
QE		Mercury
SE		SON
		SON/E
		SON/I
ST		SON/T



THE ENEC SYMBOL

(European Norms Electrical Certification)
European symbol which guarantees conformity to EU norms and allows free circulation of the products within the EU. The ENEC symbol is a

guarantee of safety and of the quality of the factory; it is the only symbol recognised and accepted throughout the whole of Europe as regards conformity of the luminaire and the components. ENEC marked luminaires

and components have been tested by a Third Party Certification Laboratory to European safety and performance norms. Companies which offer ENEC marked products also apply a Quality System which conforms to the requirements of UNI EN ISO 9002.

PRODUCTS, STANDARDS AND USE

STANDARDS

SBP products are manufactured under UNI EN ISO 9001 certified quality assurance system, in conformity with European norms EN 60598-1 (CEI 34-21) and in conformity with the European directives L.V. 73/23 CEE and 93/68 CEE-EMC 89/336 CEE. They are CE marked and can freely circulate throughout the European Union.

VOLTAGE & OPERATION

Fittings are wired for a main supply of 230V/50Hz and have a power factor of $\cos\phi \geq 0,9$ unless otherwise indicated. Other options available on request.

To ensure longevity of lamp and control gear with optimum operation of fittings we recommend:

- Installation is made by qualified personnel only.
- Mounting instructions are carefully read and followed with particular attention to its intended use and purpose; ambient temperature, recommended installation, mains supply voltage, operating positions and distance from illuminated object.
- Regular maintenance schedules are followed, especially with regards to lamp replacement and electrical components at the end of their life.

CHEMICAL COMPATIBILITY

It is important to consider the compatibility between the materials from which a product is manufactured and the reaction from chemicals present within the atmosphere of the environment they are to be installed. See table of standard SBP materials against a comprehensive list of chemicals.

GLASS COVERS

The glass installed in our fittings is toughened "safety" glass and if broken it will fracture into small blunt relatively "safe" pieces.

The toughened glass is produced in a high quality glassworks under automatic and constantly controlled production methods. SBP regularly audit and conduct fragmentation test as part of their quality control prior to any installation. However it not possible to guarantee glass un-breakable, due to its nature and production methods, breakage can occur in exceptional cases (approx. 0.3%) during the first few hour of operation.

When installing the medium to large diameter fittings in open public areas the use of a safety grill, available as an accessory, is recommended.

LIGHT POLLUTION

The requirement to reduce light pollution is increasing and is foremost on the agenda with many local authorities who have regulations that may differ regionally. Therefore it has become necessary for all parties involved with the installation of equipment to ensure that the fittings are suitable for the intended application and comply with the local regulations in force. SBP has a wide range of products and the design experience to assist in meeting such regulations.

CHEMICAL COMPATIBILITY

● Resistant ◐ Partially resistant ○ None resistant

Acetone	●	●	●	○	◐
Ethylc acetate	●	●	●	○	○
Arsenic acid		○		●	●
Acetic acid ≤ 30%	○	●	○	◐	◐
Bromic acid	●	○	○	○	○
Hydrochloric acid ≤ 20%	○	○	○	●	●
Citric acid ≤ 20%	◐	◐	◐	●	●
Formic acid ≤ 30%	◐	○	○	◐	◐
Nitric acid ≤ 20%	◐	◐	○	◐	◐
Sulphuric acid ≤ 50%	○	○	○	●	●
Sea climate	◐	◐	◐	●	●
Sodium chloride solution	●	●	◐	●	●
Hydrogen dioxide ≤ 40%	●	●	○	○	◐
Alcohol ≤ 30%	●	◐	●	●	●
Ethyl alcohol	●	●	●	◐	●
Isopropyl acid	●	◐	●	○	◐
Ammonia ≤ 25%	●	●	◐	●	◐
Carbon dioxide	●	●	◐	●	●
Aniline	●	●	○	○	○
Benzene	●	◐	●	○	○
Gasoline	●	●	●	●	●
Ketones	●	●		○	○
Chlorine (vapours)	○	●	○	◐	◐
Chloroform	◐	○	○	○	○
Chlorophenol	●	●		○	○
Methyl chloride	●	◐	○	○	○
Calcium chloride	◐	●	○	●	●
Oil of turpentine	●	●	●	◐	○
Ether	◐	●	●	○	○
Oil Ether	●	●	●	●	◐
Phenols	●	◐	○	○	○
Glycerol	●	●	●	●	◐
Animal fats	●	●	●	◐	○
Vegetal fats	●	●	●	◐	○
Synthetic lyes	●	●	○	●	◐
Methanol	●	◐	◐	○	○
Mineral oil	●	●	●	●	○
Vegetable oil	●	●	●	●	◐
Silicone oil	●	●	●	◐	●
Carbon monoxide	●	●	●	●	●
Ozone	●	●	○	●	◐
Soda	◐	◐	○	●	●
Caustic soda ≤ 2%	●	○	○	●	○
Caustic soda ≤ 10%	●	○	○	●	○
Aluminium sulphate	●	●	●	●	●
Copper sulphate	●	●	◐	●	●
Hydrogen sulphide	●	●	●	●	●
Carbon tetrachloride	○	●	●	○	○
Toluene	●	●	●	○	◐
Trichloroethylene	○	●	◐	○	○
Xylol	●	●	●	○	○

Stainless
steel

Aluminium
AL

Polyamid
PA

Methacrylate
PMMA

Polycarbonat
PC

COLOUR CODING - TECHNICAL CHARACTERISTICS

COLOURS

81	MATT BLACK RAL 9005
87	WHITE
90	LIGHT GREY RAL 7035
96	ANTHRACITE GREY SABLÉ - AKZO NOBEL
94	ALUMINIUM GREY similar to RAL 9006
97	LIGHT GREY
04	STAINLESS STEEL
40	NATURAL BRONZE
11	Extruded anodized ALUMINIUM
75	RUST BROWN

SYMBOLS



Fittings for outdoor installation



Fittings for indoor installation



max 5,1kg

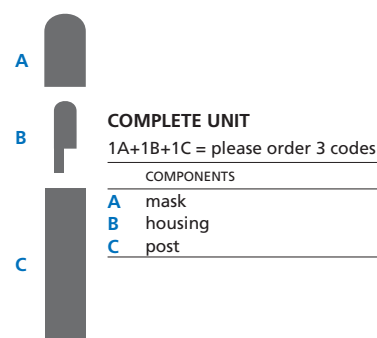
Gross weight

0,08m²

Windage area

WIRING

----	Without electrical parts
C	Wired LPF
CR	Wired HPF
CRL	Wired HPF with lamp
CRF	Wired HPF + fuse
ETRC	Wired with electronic ballast
L	With lamp
T	With tranformer



For products that must be mounted on a post, bracket, track or recessed into the wall, it is often necessary to order several different parts (codes) to get the complete configuration. In these cases, we have provided tables with examples that illustrate the combinations.

CRICKET 168+ CRICKET 268+

design Silvia Paola Pennacchio

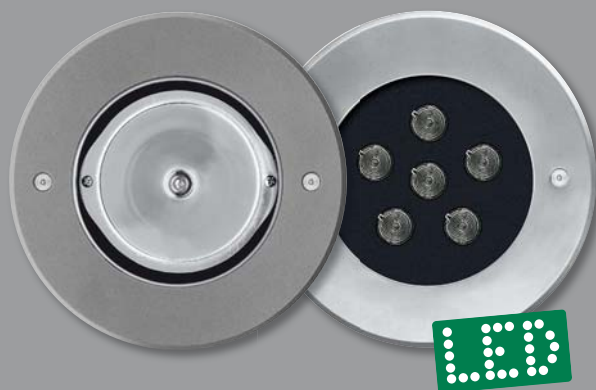
CRICKET 168+ and 268+ is a range of recessed in-ground uplighters, suitable for a variety of light sources including LED. Offering various beam angles and lenses, these luminaires are designed for drive-over applications. The 360° rotational adjustment, allows the installer to position/aim properly during installation. Constructed from high quality components and materials to ensure reliability and longevity, the range is highly versatile, designed for ease of installation and maintenance.





CRICKET 168+ CRICKET 168+ compact

design Silvia Paola Pennacchio



CRICKET 168+ is a range of circular recessed in-ground walk-over and drive-over uplighters.

Available in the following two versions:

- CRICKET 168+: vertically assembled design for conventional ground installations
- CRICKET 168+ compact: horizontally assembled design for shallow depth installations

Cricket 168+ and Cricket 168+ compact are offered with the following bezel ring options:

- Cricket 168+/AL(96) or Cricket 168+ compact/AL(96); Anthracite grey painted aluminium bezel ring (96) and flat high impact glass.
- Cricket 168+/I(04) or Cricket 168+ compact/I(04); AISI 316 stainless steel bonded to aluminium bezel ring and flat high impact glass.



CRICKET 168+ RAD CRICKET 168+ compact RAD

design Silvia Paola Pennacchio



CRICKET 168+ RAD is a range of circular recessed in-ground walk-over and drive-over uplighters.

Available in the following two versions:

- CRICKET 168+ RAD; vertically assembled design for conventional ground installations
- CRICKET 168+ compact RAD; horizontally assembled design for shallow depth installations.



CRICKET 268+ CRICKET 268+ compact

design Silvia Paola Pennacchio



CRICKET 268+ is a range of circular recessed in-ground walk-over and drive-over uplighters.

Available in the following two versions:

- CRICKET 268+: vertically assembled design for conventional ground installations
- CRICKET 268+ compact: horizontally assembled design for shallow depth installations

Cricket 268+ and Cricket 268+ compact are offered with the following bezel ring options:

- Cricket 268+/AL(96) or Cricket 268+ compact/AL(96); Anthracite grey painted aluminium bezel ring (96) and flat toughened glass.
- Cricket 268+/I(04) or Cricket 268+ compact/I(04); AISI 316 stainless steel bonded to aluminium bezel ring and flat high impact glass.

CRICKET 268+ RAD CRICKET 268+ compact RAD

design Silvia Paola Pennacchio



CRICKET 268+ RAD is a range of circular recessed in-ground walk-over and drive-over uplighters.

Available in the following two versions:

- CRICKET 268+ RAD: vertically assembled design for conventional ground installations.
- CRICKET 268+ compact RAD: horizontally assembled design for shallow depth installations.

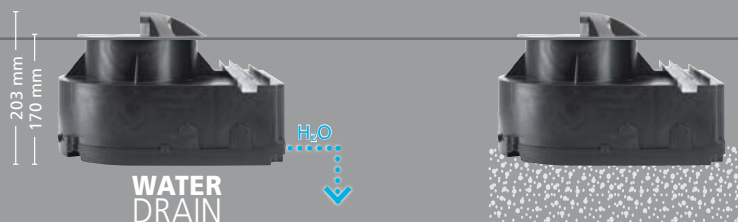


CRICKET 168+ / 268+ CRICKET 168+ compact / 268+ compact

CRICKET 168+



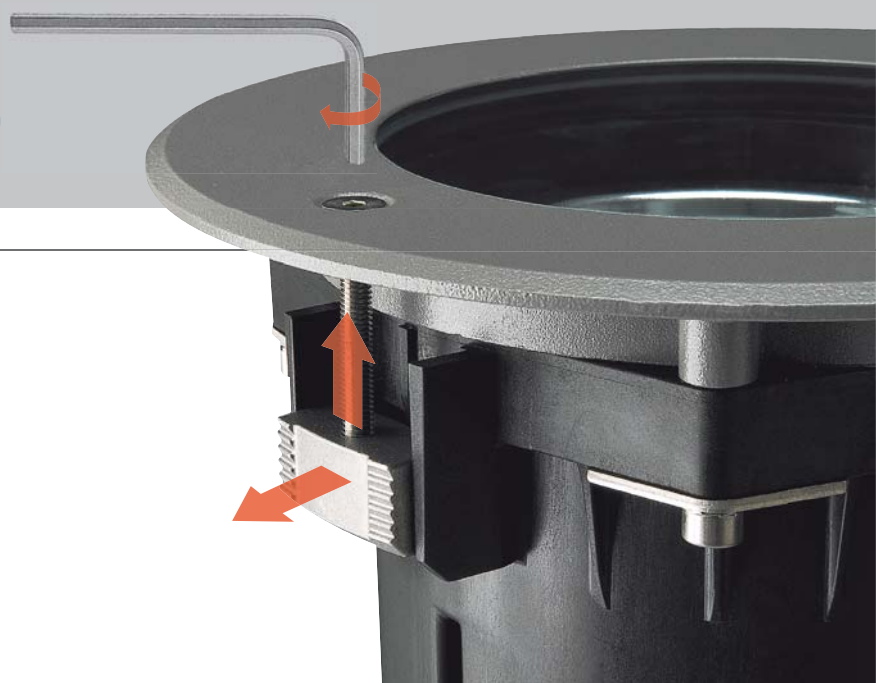
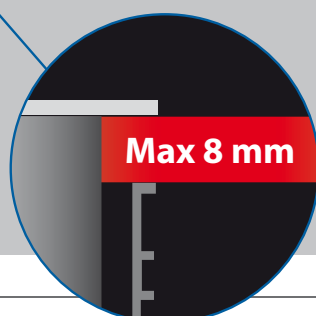
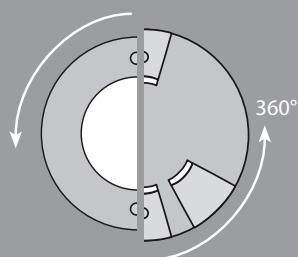
CRICKET 168+ compact



CRICKET 268+



CRICKET 268+ compact



Cricket 168+ and 268+ are equipped with "easy-adjust" installation system which allows the luminaires to rotate 360°, to assist with aiming during installation.



Cricket 168+ luminaires are supplied complete with flying lead to a "Water Stop" terminal connector block, which is resin filled to prevent moisture and condensation being vacuum-sucked back into the electrical components of the luminaire. This provides a quick and reliable connection, which ensures the longevity of the components and maintains the reliability and appearance of the fitting.



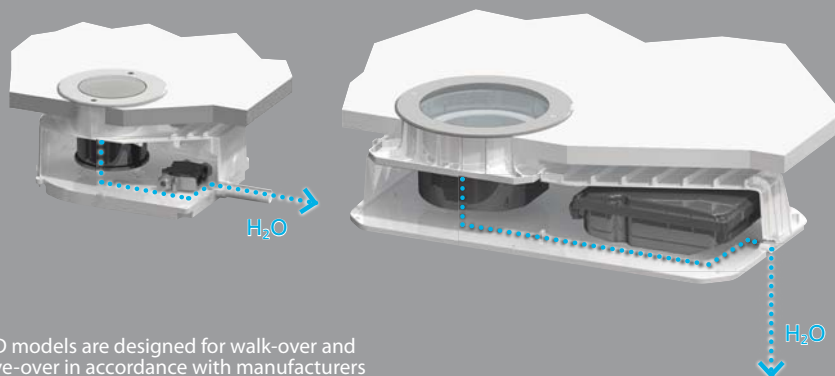
Quick!

QUICK models make fast installation possible as the luminaires are supplied complete with lamp already installed, with a flying lead pre-connected to a "water stop" terminal connector. To open the luminaires during installation.



WATER DRAIN

The Cricket 168+ and 268+ Compact versions provide the perfect solution for installation into shallow depths, providing drainage by means of the specially developed shape of the outer housing to an outflow pipe.



RAD models are designed for walk-over and drive-over in accordance with manufacturers recommendations.



All the outer casings of the compact models are supplied complete with shaped steel bars shaped to ensure that they can be driven over.

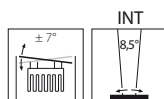


CRICKET 168+ LED



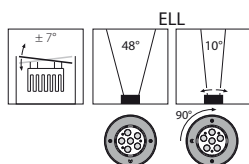
CRICKET 168+ / LED HP / C INT Beam reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL = Cosφ ≥ 0,9	Code	Notes	Tmax °C
n.6 led 350mA DC	6,6W	○ 6.000°	C INT	96	II	ETRC			06015296		41°
n.6 led 350mA DC	6,6W	○ 6.000°	C INT	04	II	ETRC			06017704		41°
n.6 led 350mA DC	6,6W	○ 3.000°	C INT	96	II	ETRC			06015396		40°
n.6 led 350mA DC	6,6W	○ 3.000°	C INT	04	II	ETRC			06017804		40°



CRICKET 168+ / LED HP / ELL Elliptical

n.6 led 350mA DC	6,6W	○ 6.000°	ELL	96	II	ETRC			06017396		40°
n.6 led 350mA DC	6,6W	○ 6.000°	ELL	04	II	ETRC			06018104		40°
n.6 led 350mA DC	6,6W	○ 3.000°	ELL	96	II	ETRC			06017496		40°
n.6 led 350mA DC	6,6W	○ 3.000°	ELL	04	II	ETRC			06018204		40°



Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

Supplied with a light source that is already installed and the water-stop device.

Models with adjustable lamp position or reflector position.



CRICKET 168+ / LED HP RGB / C INT

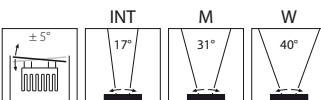
n.3 led RGB 350mA DC	9,9W		C INT	96	III				06022396		38°
n.3 led RGB 350mA DC	9,9W		C INT	04	III				06022604		38°

CRICKET 168+ / LED HP RGB / C M

n.3 led RGB 350mA DC	9,9W		C M	96	III				06022496		38°
n.3 led RGB 350mA DC	9,9W		C M	04	III				06022704		38°

CRICKET 168+ / LED HP RGB / C W

n.3 led RGB 350mA DC	9,9W		C W	96	III				06022596		38°
n.3 led RGB 350mA DC	9,9W		C W	04	III				06022804		38°



Supplied with a light source that is already installed and the water-stop device.

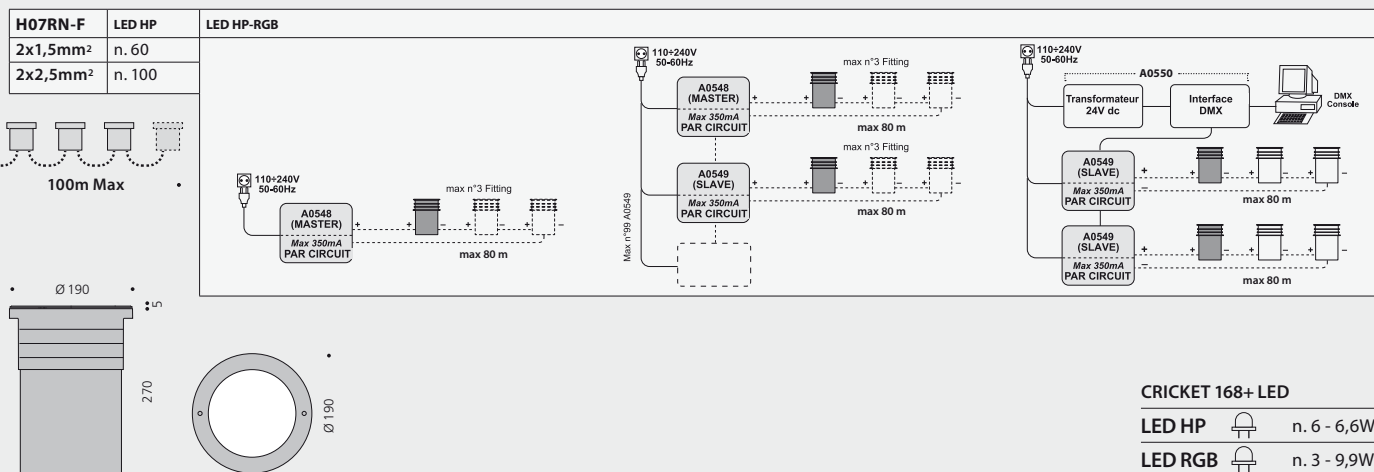
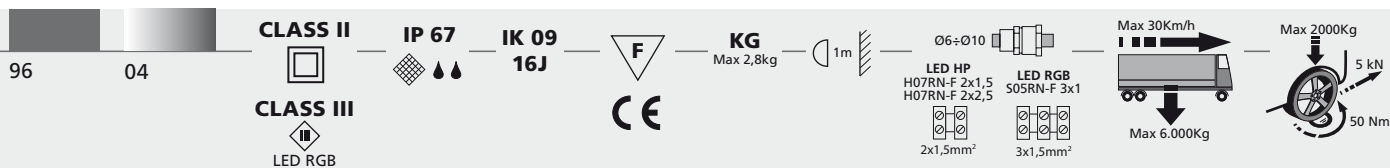
For 350mA x RGB lamp supply.

Models with adjustable lamp position or reflector position.

ACCESSORIES



Code	Denomination	Description
14135420	A0548	Control gear Kit MASTER for RGB-44W 110/240V.
14135520	A0549	Control gear Kit SLAVE for RGB-44W 110/240V.
14135620	A0550	Interface Kit DMX for RGB (use with A0549).
14072120	A0380	S05RN-F 3x1 mm² x RGB cable sold and supplied in 1 meter units.
14018320	A0235	H07RN-F 2x2.5 mm² rubber cable supplied and sold in 1 meter units (no RGB).

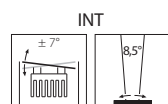


CRICKET 168+ compact LED



CRICKET 168+ compact LED HP / C INT Beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes	Tmax °C
n°6 LED 350mA DC	6,6W	○	6.000	C INT	96	I	ETRC			• 06036596	E I Q	36°
n°6 LED 350mA DC	6,6W	○	6.000	C INT	04	I	ETRC			• 06036904	E I Q	36°
n°6 LED 350mA DC	6,6W	○	3.000	C INT	96	I	ETRC			• 06036696	E I Q	36°
n°6 LED 350mA DC	6,6W	○	3.000	C INT	04	I	ETRC			• 06037004	E I Q	36°

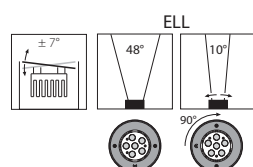


- E I** Complete with electronic ballast non dimmable 220÷240V 50/60Hz.
- Q** Supplied with a light source that is already installed and the water-stop device.



CRICKET 168+ compact LED HP / ELL Elliptical

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes	Tmax °C
n°6 LED 350mA DC	6,6W	○	6.000	ELL	96	I	ETRC			• 06036796	E I Q	
n°6 LED 350mA DC	6,6W	○	6.000	ELL	04	I	ETRC			• 06037104	E I Q	
n°6 LED 350mA DC	6,6W	○	3.000	ELL	96	I	ETRC			• 06036896	E I Q	
n°6 LED 350mA DC	6,6W	○	3.000	ELL	04	I	ETRC			• 06037204	E I Q	



- E I** Complete with electronic ballast non dimmable 220÷240V 50/60Hz.
- Q** Supplied with a light source that is already installed and the water-stop device.

ACCESSORIES



Code	Denomination	Description
14150420	A0593	H07RN-F 3G1.5 mm ² rubber cable supplied and sold in 1 meter units.

96

04

CLASS I

IP 67

IK 09
16J

KG
 Max 3,2kg

H07RN-F 3G1,5
 H07RN-F 3G2,5
 3x1,5mm²

Max 30Km/h
 Max 6.000Kg

Max 2000Kg
 5 kN
 50 Nm

H07RN-F LED HP
 3x1,5mm² n°60

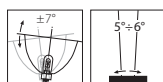
CRICKET 168+ compact LED
LED HP n.6 - 6,6W

CRICKET 168+



CRICKET 168+ /C Circular reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	20W	MT		C	96	II	ETRC			• 05238096		80°
G8,5	20W	MT		C	04	II	ETRC			• 05292004		80°
GU6,5	20W	MT		C	96	II	ETRC			• 05317796		80°
GU6,5	20W	MT		C	04	II	ETRC			• 05317804		80°



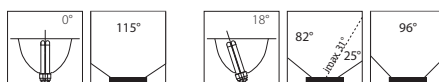
Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position.



CRICKET 168+ /C EW Circular reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G24q-1	10W	FSQ		C EW	96	II	ETRC	A2		05238696		52°
G24q-1	10W	FSQ		C EW	04	II	ETRC	A2		05292404		52°



Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

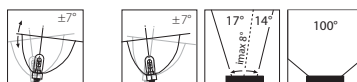
Models with adjustable lamp position or reflector position.

Version with lamp position a 0° o 18°.



CRICKET 168+ /A Orientable asymmetric

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	20W	MT		A	96	II	ETRC			• 05238296		78°
G8,5	20W	MT		A	04	II	ETRC			• 05292204		78°
GU6,5	20W	MT		A	96	II	ETRC			• 05317996		78°
GU6,5	20W	MT		A	04	II	ETRC			• 05318004		78°



Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position.



CRICKET 168+

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
B15d	50W	HMG5			96	II	T			• 05238896		175°
B15d	50W	HMG5			04	II	T			• 05292604		175°



With transformer 230V/12V.

Models with adjustable lamp position or reflector position.

96 04

CLASS II



IP 67



IK 09

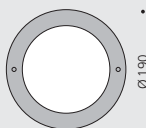
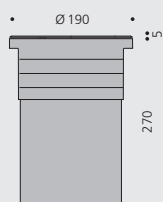


KG

Max 3,2kg

Ø6÷Ø10

H07RN-F 2x1,5
H07RN-F 2x2,5



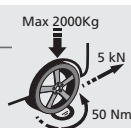
100m Max			
H07RN-F	20W	10W	50W B15d
2x1,5mm ²	n°26	n°58	n°11
2x2,5mm ²	n°42	n°95	n°19



Code	Denomination	Description
14090720	A0450 AL	Frosted glass suitable for achieving more diffuse or less intense lighting. For aluminium frames (AL) only.
14122820	A0450 I	Frosted glass suitable for achieving more diffuse or less intense lighting. For stainless steel frames (I) only.
14090820	A0451 AL	Supplement for frosted glass. For aluminium frames (AL) only.
14122920	A0451 I	Supplement for frosted glass. For stainless steel frames (I) only.
14090920	A0452 AL/I	Low-emission filter to reduce glass temperature. For G8.5 and GU6.5 lamps only.
14091020	A0453 AL/I	Prismatic glass. For G8.5 - GU6.5 lamps only.
14091420	A0454/BL AL	BLUE dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123420	A0454/BL I	BLUE dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091220	A0454/G AL	YELLOW dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123220	A0454/G I	YELLOW dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091120	A0454/R AL	RED dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123120	A0454/R I	RED dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091320	A0454/V AL	GREEN dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123320	A0454/V I	GREEN dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091512	A0455/C AL/I	Aluminium light shield, inside the luminaire, to define the light beam and reduce glare. For circular models (V/C) with G8.5-GU6.5 lamps only (not compatible with A0456).
14091612	A0456/C AL/I	Aluminium louver, inside the luminaire, to reduce glare. For circular models (V/C) with G8.5-GU6.5 lamps only (not compatible with A0455).
14091712	A0457/A AL/I	Aluminium light shield, inside the luminaire, to reduce glare. For asymmetrical lenses (V/A) only.
14091820	A0458/C-Fluo AL/I	Aluminium light shield, inside the luminaire, to reduce glare. For circular lenses (V/C) with G24q-1 lamp only.
14018320	A0235	H07RN-F 2x2.5 mm ² rubber cable supplied and sold in 1 meter units.



Max 6.000Kg



Max 2000Kg

5 kN

50 Nm

CRICKET 168+

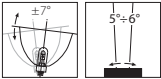
MC		PGJ5	20W	CDM-TM
MT		GU6,5	Max 20W	HCI-TF
MT		G8,5	20W	HCI-TC
HMG5		B15d	Max 50W	HALOSPOT 70
FSQ		G24q-1	10W	DULUX-D/E PLC-4PIN

CRICKET 168+ compact



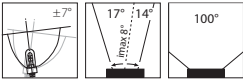
CRICKET 168+ / compact/ C

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL = $\geq 0,9$	Cosp	Code	Notes	Tmax °C
GU6,5	20W	MT		C	96	I	ETRC			• 05346196		80°
GU6,5	20W	MT		C	04	I	ETRC			• 05346304		80°
GU10	Max 50W	HRG			96	I	C			• 05346596		100°
GU10	Max 50W	HRG			04	I	C			• 05346604		100°



CRICKET 168+ / compact/ A

GU6,5	20W	MT		A	96	I	ETRC			• 05346296		80°
GU6,5	20W	MT		A	04	I	ETRC			• 05346404		80°



- Complete with electronic ballast non dimmable 220÷240V 50/60Hz.
- Models with adjustable lamp position or reflector position.



Code	Denomination	Description
14090720	A0450 AL	Frosted glass suitable for achieving more diffuse or less intense lighting. For aluminium frames (AL) only.
14122820	A0450 I	Frosted glass suitable for achieving more diffuse or less intense lighting. For stainless steel frames (I) only.
14090820	A0451 AL	Supplement for frosted glass. For aluminium frames (AL) only.
14122920	A0451 I	Supplement for frosted glass. For stainless steel frames (I) only.
14090920	A0452 AL/I	Low-emission filter to reduce glass temperature. For G8.5 and GU6.5 lamps only.
14091020	A0453 AL/I	Prismatic glass. For G8.5 - GU6.5 lamps only.
14091420	A0454/BL AL	BLUE dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123420	A0454/BL I	BLUE dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091220	A0454/G AL	YELLOW dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123220	A0454/G I	YELLOW dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091120	A0454/R AL	RED dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123120	A0454/R I	RED dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091320	A0454/V AL	GREEN dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with aluminium frames (AL) and G8.5-GU6.5 lamps only.
14123320	A0454/V I	GREEN dichroic glass, for use with the A0455 accessory. For circular lenses (V/C) with stainless steel frames (I) and G8.5-GU6.5 lamps only.
14091512	A0455/C AL/I	Aluminium light shield, inside the luminaire, to define the light beam and reduce glare. For circular models (V/C) with G8.5-GU6.5 lamps only (not compatible with A0456).
14091612	A0456/C AL/I	Aluminium louver, inside the luminaire, to reduce glare. For circular models (V/C) with G8.5-GU6.5 lamps only (not compatible with A0455).
14091712	A0457/A AL/I	Aluminium light shield, inside the luminaire, to reduce glare. For asymmetrical lenses (A) only.
14091820	A0458/C-Fluo AL/I	Aluminium light shield, inside the luminaire, to reduce glare. For circular lenses (V/C) with G24q-1 lamp only.
14150420	A0593	H07RN-F 3G1.5 mm² rubber cable supplied and sold in 1 meter units. For Cricket 168+ compact only.

96

CLASS I

IP 67

IK 09
16J

KG
Max 3,2 kg

H07RN-F 3G1,5
3x1,5mm²

Max 30Km/h
Max 6.000Kg

Max 2000 Kg
5 kN
50 Nm

CE

H07RN-F	20W	50W E27
3x1,5mm²	n°26	n°11

CRICKET 168+ RAD

CRICKET 168+ compact RAD



CRICKET 168+ / RAD 360°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	20W	MT	○ 3.000°	RAD 360°	96	II	ETRCL	•		07023996		58°
GU6,5	20W	MT	○ 3.000°	RAD 360°	96	II	ETRCL	•		07034596		45°
n.8 led 350mA DC	8,8W		○ 6.000°	RAD 360°	96	II	ETRC			06015696		39°
n.8 led 350mA DC	8,8W		○ 3.000°	RAD 360°	96	II	ETRC			06021296		39°

CRICKET 168+ / compact/ RAD 360°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
GU6,5	20W	MT		RAD 360°	96	I	ETRCL	•		07039496		78°
n°8 led 350mA DC	8,8W		○ 6.000	RAD 360°	96	I	ETRC	•		06033896		47°
n°8 led 350mA DC	8,8W		○ 3.000	RAD 360°	96	I	ETRC	•		06033596		47°



CRICKET 168+ / RAD 210°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	20W	MT	○ 3.000°	RAD 210°	96	II	ETRCL	•		07024096		58°
GU6,5	20W	MT	○ 3.000°	RAD 210°	96	II	ETRCL	•		07034696		45°
n.5 led 350mA DC	5,5W		○ 6.000°	RAD 210°	96	II	ETRC			06015896		39°
n.5 led 350mA DC	5,5W		○ 3.000°	RAD 210°	96	II	ETRC			06021396		39°

CRICKET 168+ / compact/ RAD 210°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
GU6,5	20W	MT		RAD 210°	96	I	ETRCL	•		07039396		78°
n°5 led 350mA DC	5,5W		○ 6.000	RAD 210°	96	I	ETRC	•		06033796		48°
n°5 led 350mA DC	5,5W		○ 3.000	RAD 210°	96	I	ETRC	•		06033496		48°



CRICKET 168+ / RAD 110° + 30°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	20W	MT	○ 3.000°	RAD 110°+30°	96	II	ETRCL	•		07024196		58°
GU6,5	20W	MT	○ 3.000°	RAD 110°+30°	96	II	ETRCL	•		07034796		45°
n.4 led 350mA DC	4,4W		○ 6.000°	RAD 110°+30°	96	II	ETRC			06016096		39°
n.4 led 350mA DC	4,4W		○ 3.000°	RAD 110°+30°	96	II	ETRC			06021496		39°

CRICKET 168+ / compact/ RAD 110° + 30°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
GU6,5	20W	MT		RAD 110°+30°	96	I	ETRCL	•		07039296		78°
n°4 led 350mA DC	4,4W		○ 6.000	RAD 110°+30°	96	I	ETRC	•		06033696		43°
n°4 led 350mA DC	4,4W		○ 3.000	RAD 110°+30°	96	I	ETRC	•		06033396		43°

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

Supplied with a light source that is already installed and the water-stop device.

A0235 / A0593



Code Denomination Description

14018320 A0235 H07RN-F 2x2.5 mm² rubber cable supplied and sold in 1 meter units. For Cricket 168+ only.

14150420 A0593 H07RN-F 3G1.5 mm² rubber cable supplied and sold in 1 meter units. For Cricket 168+ compact only.

96

Ø 205

38

270

CLASS II

CLASS I

IP 67

IK 09

15J

KG

Max 3,4kg

Ø6÷Ø10

H07RN-F 2x1,5

H07RN-F 2x2,5

2x1,5mm²

Ø6÷Ø11

H07RN-F 3G1,5

3x1,5mm²

Max 30Km/h

Max 6.000Kg

Max 4500 Kg

5 kN

50 Nm

CE

Ø 205

38

170

Ø 205

120

261

330

345

CRICKET 168+ RAD / CRICKET 168+ compact RAD

MT		GU6,5	Max 20 W	HCI-TF
MT		G8,5	20 W	HCI-TC
LED		Max N°8-8,8 W		

CRICKET 268+



CRICKET 268+ / C INT

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp EEI = ≥ 0,9	Code	Notes	T max °C
G12	35W	MT		C INT	96	II	CR			• 05307996		83°
G12	35W	MT		C INT	04	II	CR			• 05310804		83°
G12	70W	MT		C INT	96	II	CR			• 05308096		106°
G12	70W	MT		C INT	04	II	CR			• 05310904		106°
G12	100W	MT		C INT	96	II	CR			• 05308196		125°
G12	100W	MT		C INT	04	II	CR			• 05311004		125°
G12	150W	MT		C INT	96	II	CR			• 05308296		176°
G12	150W	MT		C INT	04	II	CR			• 05311104		176°
G12	35W	MT		C INT	96	II	ETRC			• 05308396		81°
G12	35W	MT		C INT	04	II	ETRC			• 05311204		81°
G12	70W	MT		C INT	96	II	ETRC			• 05308496		103°
G12	70W	MT		C INT	04	II	ETRC			• 05311304		103°



CRICKET 268+ / C M

G12	35W	MT		C M	96	II	CR			• 05308596		72°
G12	35W	MT		C M	04	II	CR			• 05311404		72°
G12	70W	MT		C M	96	II	CR			• 05308696		103°
G12	70W	MT		C M	04	II	CR			• 05311504		103°
G12	100W	MT		C M	96	II	CR			• 05308796		118°
G12	100W	MT		C M	04	II	CR			• 05311604		118°
G12	150W	MT		C M	96	II	CR			• 05308896		159°
G12	150W	MT		C M	04	II	CR			• 05311704		159°
G12	35W	MT		C M	96	II	ETRC			• 05308996		83°
G12	35W	MT		C M	04	II	ETRC			• 05311804		83°
G12	70W	MT		C M	96	II	ETRC			• 05309096		103°
G12	70W	MT		C M	04	II	ETRC			• 05311904		103°



CRICKET 268+ / C W

G12	35W	MT		C W	96	II	CR			• 05309196		80°
G12	35W	MT		C W	04	II	CR			• 05312004		80°
G12	70W	MT		C W	96	II	CR			• 05309296		106°
G12	70W	MT		C W	04	II	CR			• 05312104		106°
G12	100W	MT		C W	96	II	CR			• 05309396		122°
G12	100W	MT		C W	04	II	CR			• 05312204		122°
G12	150W	MT		C W	96	II	CR			• 05309496		138°
G12	150W	MT		C W	04	II	CR			• 05312304		138°
G12	35W	MT		C W	96	II	ETRC			• 05309596		80°
G12	35W	MT		C W	04	II	ETRC			• 05312404		80°
G12	70W	MT		C W	96	II	ETRC			• 05309696		106°
G12	70W	MT		C W	04	II	ETRC			• 05312504		106°

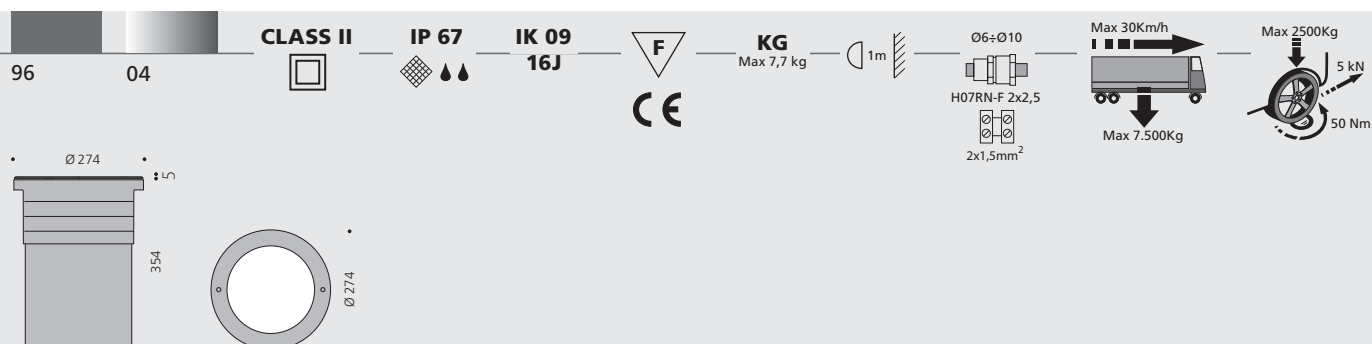


CRICKET 268+ / A15

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp EEI = ≥ 0,9	Code	Notes	T max °C
RX7s	70W	SD-MD		A15	96	II	CR			• 05310196		105°
RX7s	70W	SD-MD		A15	04	II	CR			• 05313004		105°
RX7s	150W	SD-MD		A15	96	II	CR			• 05310296		144°
RX7s	150W	SD-MD		A15	04	II	CR			• 05313104		144°
RX7s	70W	SD-MD		A15	96	II	ETRC			• 05310396		102°
RX7s	70W	SD-MD		A15	04	II	ETRC			• 05313204		102°

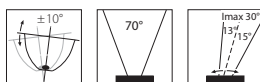
Complete with electronic ballast 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position 0/+10°.

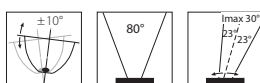


**CRICKET 268+ / A30**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI = $\frac{Cos\phi}{\geq 0,9}$	Code	Notes	T max °C
RX7s	70W	SD-MD	A30	96	II	CR			• 05310496		107°
RX7s	70W	SD-MD	A30	04	II	CR			• 05313304		107°
RX7s	150W	SD-MD	A30	96	II	CR			• 05310596		144°
RX7s	150W	SD-MD	A30	04	II	CR			• 05313404		144°
RX7s	70W	SD-MD	A30	96	II	ETRC			• 05310696		99°
RX7s	70W	SD-MD	A30	04	II	ETRC			• 05313504		99°

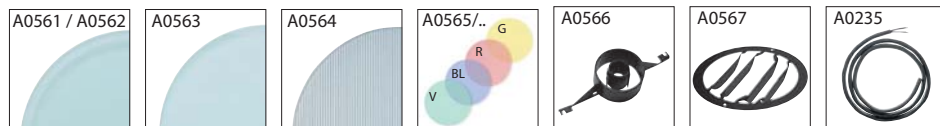
**CRICKET 268+ / A30 Fluo**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI = $\frac{Cos\phi}{\geq 0,9}$	Code	Notes	T max °C
G24q-1	10W	FSQ	A30	96	II	ETRC	A3		• 05310796		40°
G24q-1	10W	FSQ	A30	04	II	ETRC	A3		• 05313604		40°



Complete with electronic ballast 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position 0/+10°.

ACCESSORIES

Code	Denomination	Description
14136920	A0561/AL	Frosted glass. For aluminium frames (/AL) only.
14137020	A0561/I	Frosted glass. For stainless steel frames (I) only.
14137120	A0562/AL	Supplement for frosted glass. For aluminium frames (AL) only.
14137220	A0562/I	Supplement for frosted glass. For stainless steel frames (I) only.
14137320	A0563	Low-emission filter to reduce glass temperature. For G12 max 70W (CR) and 35W (ETRC) lamps for Cricket 268+ only.
14137420	A0564	Prismatic glass. For circular lenses (/C) only.
14137520	A0565/R	Red dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12 max 100W (CR) and max 35W (ETRC) lamps for Cricket 268+ only.
14137620	A0565/G	Yellow dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12 max 100W (CR) and max 35W (ETRC) lamps for Cricket 268+ only.
14137720	A0565/V	Green dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12 max 100W (CR) and max 35W (ETRC) lamps for Cricket 268+ only.
14137820	A0565/BL	Blue dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12 max 100W (CR) and max 35W (ETRC) lamps for Cricket 268+ only.
14137920	A0566	Circular light shield. For intensive circular lenses (/C INT) only.
14138012	A0567	Circular louvre. For circular lenses (/C) for Cricket 268+.
14018320	A0235	H07RN-F 2x2.5 mm² rubber cable supplied and sold in 1 meter units.

CRICKET 268+

MT		G12	Max 150W	HCI-T / HQI-T / CDM-T
SD-MD		RX7s	Max 150W	NAV-TS / HQI-TS/MH-TD
FSQ		G24q-1	10W	DULUX-D/E PLC-4PIN

CRICKET 268+ compact



CRICKET 268+ / compact/ C INT

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT		C INT	96	I	CR			• 05336996		79°
G12	35W	MT		C INT	04	I	CR			• 05337504		79°
RX7s	70W	MD		C INT	96	I	CR			• 05338196		132°
RX7s	70W	MD		C INT	04	I	CR			• 05341104		132°
RX7s	150W	MD		C INT	96	I	CR			• 05339696		180°
RX7s	150W	MD		C INT	04	I	CR			• 05342604		180°
G12	35W	MT		C INT	96	I	ETRC			• 05337296		75°
G12	35W	MT		C INT	04	I	ETRC			• 05337804		75°
RX7s	70W	MD		C INT	96	I	ETRC			• 05338696		122°
RX7s	70W	MD		C INT	04	I	ETRC			• 05341604		122°
RX7s	150W	MD		C INT	96	I	ETRC			• 05340196		185°
RX7s	150W	MD		C INT	04	I	ETRC			• 05343104		185°



CRICKET 268+ / compact/ C M

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT		C M	96	I	CR			• 05337096		80°
G12	35W	MT		C M	04	I	CR			• 05337604		80°
RX7s	70W	MD		C M	96	I	CR			• 05338296		125°
RX7s	70W	MD		C M	04	I	CR			• 05341204		125°
RX7s	150W	MD		C M	96	I	CR			• 05339796		175°
RX7s	150W	MD		C M	04	I	CR			• 05342704		175°
G12	35W	MT		C M	96	I	ETRC			• 05337396		74°
G12	35W	MT		C M	04	I	ETRC			• 05337904		74°
RX7s	70W	MD		C M	96	I	ETRC			• 05338796		115°
RX7s	70W	MD		C M	04	I	ETRC			• 05341704		115°
RX7s	150W	MD		C M	96	I	ETRC			• 05340296		177°
RX7s	150W	MD		C M	04	I	ETRC			• 05343204		177°



CRICKET 268+ / compact/ C W

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT		C W	96	I	CR			• 05337196		80°
G12	35W	MT		C W	04	I	CR			• 05337704		80°
RX7s	70W	MD		C W	96	I	CR			• 05338396		140°
RX7s	70W	MD		C W	04	I	CR			• 05341304		140°
RX7s	150W	MD		C W	96	I	CR			• 05339896		175°
RX7s	150W	MD		C W	04	I	CR			• 05342804		175°
G12	35W	MT		C W	96	I	ETRC			• 05337496		73°
G12	35W	MT		C W	04	I	ETRC			• 05338004		73°
RX7s	70W	MD		C W	96	I	ETRC			• 05338896		118°
RX7s	70W	MD		C W	04	I	ETRC			• 05341804		118°
RX7s	150W	MD		C W	96	I	ETRC			• 05340396		179°
RX7s	150W	MD		C W	04	I	ETRC			• 05343304		179°



Complete with electronic ballast 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position 0°/+10°.

96 04

CLASS I



IP 67



IK 10



21J



F



KG



Max 11,7kg



1m



Ø6÷Ø11



H07RN-F 3G1,5



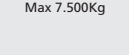
3x1,5mm²



Max 30Km/h



Max 7.500Kg



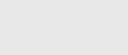
Max 2500Kg



5 kN



50 Nm



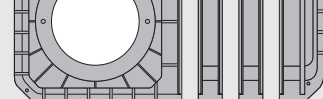
Ø 274

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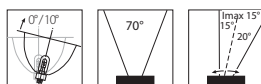


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661

**CRICKET 268+ / compact / A15**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
RX7s	70W	MD		A15	96	I	CR			• 05338496		122°
RX7s	70W	MD		A15	04	I	CR			• 05341404		122°
RX7s	150W	MD		A15	96	I	CR			• 05339996		162°
RX7s	150W	MD		A15	04	I	CR			• 05342904		162°
RX7s	70W	MD		A15	96	I	ETRC			• 05338996		112°
RX7s	70W	MD		A15	04	I	ETRC			• 05341904		112°
RX7s	150W	MD		A15	96	I	ETRC			• 05340496		155°
RX7s	150W	MD		A15	04	I	ETRC			• 05343404		155°

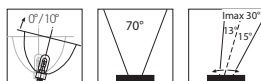


Complete with electronic ballast 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position 0/+10°.

**CRICKET 268+ / compact / A30**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
RX7s	70W	MD		A30	96	I	CR			• 05338596		119°
RX7s	70W	MD		A30	04	I	CR			• 05341504		119°
RX7s	150W	MD		A30	96	I	CR			• 05340096		155°
RX7s	150W	MD		A30	04	I	CR			• 05343004		155°
RX7s	70W	MD		A30	96	I	ETRC			• 05339096		110°
RX7s	70W	MD		A30	04	I	ETRC			• 05342004		110°
RX7s	150W	MD		A30	96	I	ETRC			• 05340596		152°
RX7s	150W	MD		A30	04	I	ETRC			• 05343504		152°



Complete with electronic ballast 220÷240V 50/60Hz.

Models with adjustable lamp position or reflector position 0/+10°.

ACCESSORIES

Code	Denomination	Description
14136920	A0561/AL	Frosted glass. For aluminium frames (/AL) only. Not suitable for intensive circular lens (/C INT) for Cricket 268+ compact.
14137020	A0561/I	Frosted glass. For stainless steel frames (/I) only. Not suitable for intensive circular lens (/C INT) for Cricket 268+ compact.
14137120	A0562/AL	Supplement for frosted glass. For aluminium frames (AL) only.
14137220	A0562/I	Supplement for frosted glass. For stainless steel frames (I) only.
14137320	A0563	Low-emission filter to reduce glass temperature. For G12 max 70W (CR) and 35W (ETRC) lamps for Cricket 268+ only. Not suitable for 150W lamps for Cricket 268+ compact.
14137420	A0564	Prismatic glass. For circular lenses (/C) only.
14137520	A0565/R	Red dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12. Not suitable for 150W lamps for Cricket 268+ compact.
14137620	A0565/G	Yellow dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12. Not suitable for 150W lamps for Cricket 268+ compact.
14137720	A0565/V	Green dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12. Not suitable for 150W lamps for Cricket 268+ compact.
14137820	A0565/BL	Blue dichroic glass, for use with the A0566 accessory. For intensive circular lenses (/C INT) for G12. Not suitable for 150W lamps for Cricket 268+ compact.
14137920	A0566	Circular light shield. For intensive circular lenses (/C INT) only.
14138012	A0567	Circular louver. For circular lenses (/C INT) for Cricket 268+ compact only.
14150420	A0593	H07RN-F 3G1.5 mm ² rubber cable supplied and sold in 1 meter units.

CRICKET 268+ compact

MT		G12	35W	HCI-T / CDM-T
MD		RX7s	Max 150W	HQI-TS/MH-TD / CDM-TD

CRICKET 268+ compact LED



CRICKET 268+ / compact/ LED-HP

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EELI =	Cosp ± 0,9	Code	Notes	Tmax °C
n°15 led 350mA	16,5W		6.000	C-INT	96	I	ETRC			• 06037396	🔧 📏 📏	Q
n°15 led 350mA	16,5W		6.000	C-INT	04	I	ETRC			• 06037704	🔧 📏 📏	Q
n°15 led 350mA	16,5W		3.000	C-INT	96	I	ETRC			• 06037496	🔧 📏 📏	Q
n°15 led 350mA	16,5W		3.000	C-INT	04	I	ETRC			• 06037804	🔧 📏 📏	Q
n°15 led 350mA	16,5W		6.000	ELL	96	I	ETRC			• 06037596	🔧 📏 📏	Q
n°15 led 350mA	16,5W		6.000	ELL	04	I	ETRC			• 06037904	🔧 📏 📏	Q
n°15 led 350mA	16,5W		3.000	ELL	96	I	ETRC			• 06037696	🔧 📏 📏	Q
n°15 led 350mA	16,5W		3.000	ELL	04	I	ETRC			• 06038004	🔧 📏 📏	Q

- 🔧 Complete with electronic ballast 220÷240V 50/60Hz.
- 📏 Models with adjustable lamp position or reflector position 0/+10°.
- Q Supplied with a light source that is already installed and the water-stop device.

ACCESSORIES



Code	Denomination	Description
14150420	A0593	H07RN-F 3G1,5 mm² rubber cable supplied and sold in 1 meter units.

96

04

CLASS I

IP 67

IK 10 21J

KG

Max 11,7kg

1m

H07RN-F 3G1,5

3x1,5mm²

Max 30Km/h

Max 7.500Kg

Max 2500Kg

5 kN

50 Nm

Ø 274

165

114

346

500

661

CRICKET 268+ compact LED

LED

Max 15-16,5 W

CRICKET 268+ RAD

CRICKET 268+ compact RAD



CRICKET 268+ / RAD 360°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT	3.000	RAD 360°	96	II	CRL			• 07037296	Q	65°
G12	35W	MT	3.000	RAD 360°	96	II	ETRCL			• 07037596	E Q	65°

CRICKET 268+ / compact/ RAD 360°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	35W	MT-UB	3.000	RAD 360°	96	I	CRL			• 07040596	E Q	
G8,5	35W	MT-UB	3.000	RAD 360°	96	I	ETRCL			• 07040896	E Q	
n°8 led 500mA	12,8W		○ 6.000	RAD 360°	96	I	ETRC			• 06033996	E Q	
n°8 led 500mA	12,8W		○ 3.000	RAD 360°	96	I	ETRC			• 06034096	E Q	

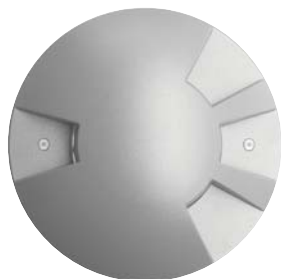


CRICKET 268+ / RAD 210°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT	3.000	RAD 210°	96	II	CRL			• 07037196	Q	65°
G12	35W	MT	3.000	RAD 210°	96	II	ETRCL			• 07037496	E Q	65°

CRICKET 268+ / compact/ RAD 210°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	35W	MT-UB	3.000	RAD 210°	96	I	CRL			• 07040696	E Q	
G8,5	35W	MT-UB	3.000	RAD 210°	96	I	ETRCL			• 07040996	E Q	
n°5 led 500mA	8W		○ 6.000	RAD 210°	96	I	ETRC			• 06034196	E Q	
n°5 led 500mA	8W		○ 3.000	RAD 210°	96	I	ETRC			• 06034296	E Q	



CRICKET 268+ / RAD 110° + 30°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G12	35W	MT	3.000	RAD 110°+30°	96	II	CRL			• 07037096	Q	65°
G12	35W	MT	3.000	RAD 110°+30°	96	II	ETRCL			• 07037396	E Q	65°

CRICKET 268+ / compact/ RAD 110° + 30°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	Tmax °C
G8,5	35W	MT-UB	3.000	RAD 110°+30°	96	I	CRL			• 07040796	E Q	
G8,5	35W	MT-UB	3.000	RAD 110°+30°	96	I	ETRCL			• 07041096	E Q	
n°4 led 500mA	6,4W		○ 6.000	RAD 110°+30°	96	I	ETRC			• 06034396	E Q	
n°4 led 500mA	6,4W		○ 3.000	RAD 110°+30°	96	I	ETRC			• 06034496	E Q	

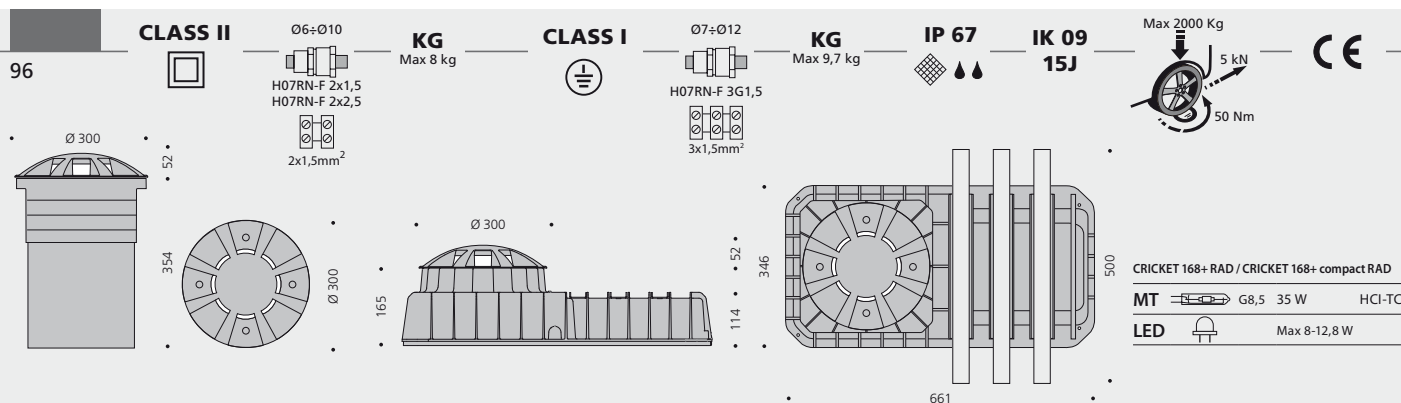
E Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

Q Supplied with a light source that is already installed and the water-stop device.

ACCESSORIES



Code	Denomination	Description
14018320	A0235	H07RN-F 2x2.5 mm² rubber cable supplied and sold in 1 meter units. For Cricket 168+ only.
14150420	A0593	H07RN-F 3G1.5 mm² rubber cable supplied and sold in 1 meter units. For Cricket 168+ compact only.



CRICKET 168+ RAD / CRICKET 168+ compact RAD			
MT	G8,5	35 W	HCI-TC
LED		Max 8-12,8 W	

CRICKET 25

design Silvia Paola Pennacchio

CRICKET 25 is a range of recessed in-ground uplighters designed to take the load and impact from pedestrians and motor vehicles, suitable for 26W compact fluorescent and 150W HID lamps. A development derived from more than ten years experience and over 100,000 in-ground uplighters installed by SBP world wide.

CRICKET 25 has a contemporary square design with a wide range of optics and accessories providing a flexible high performance luminaire suitable for creating dramatic effects. Cricket25 can be installed to illuminate many applications such as: historical and modern buildings, highlighting architectural features, illuminating walls / façades, and public area lighting.





CRICKET 25 contemporary square designed IP67 in-ground uplighters manufactured from high quality corrosion resistant materials and high quality finishing makes them suitable for indoor and outdoor use in a variety of installations from harsh ambient conditions to the most prestigious of projects.

CRICKET 25 is available with three cover frame options:
 CRICKET 25 - Frameless with stainless steel corner fixings,
 CRICKET 25/I (04) - Stainless steel frame,
 CRICKET 25/AL (94) - Aluminium frame.

CRICKET 25 features:

- adjustable reflector optics; Asymmetrical (-5° to -15°) or Circular (0° to -10°)
- variety of light sources from compact fluorescent to 150W HID
- cool touch surface glass temperature
- high quality corrosion resistant materials and finishing
- robust design for reliability and longevity
- easy installation
- high lighting performance in a compact design
- contemporary square design compliments other products within the CRICKET range.



SPECIFICATION:

Technopolymer body and outer recessing enclosure provides high corrosion resistance and stability in variable ambient temperatures. Impact resistant safety glass, IK10 - 24J.

Anti-aging silicone gasket.

Cricket 25; Frameless with AISI 316 stainless steel corner fixing clamps.

Cricket 25/AL-94; Aluminium frame finished.

Cricket 25/I-04; AISI 316 stainless steel frame suitable for installation in marine environment.

Reflectors in high purity aluminium anodised and polished with adjustable optics; Asymmetrical (-5° to -15°) or Circular (0° to -10°).

M20x1.5 cable gland for Ø7 to 12mm cables.

2x2.5 mm² automatic isolating terminal interrupts supply on opening luminaire to provide extra safety.

Stainless steel external screws.

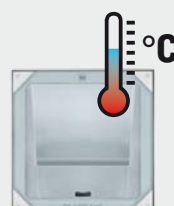
VEHICLE IMPACT RESISTANT

CRICKET 25 in-ground luminaires suitable for soil and / or concrete installation, designed to take the load and impact from pedestrians and motor vehicles. When correctly installed into concrete they are designed to withstand a maximum static load of 3000 Kg or a maximum travelling load, by motor vehicles with pneumatic tyres, of 12000 Kg gross weight at a maximum speed of 30 Km/h. If installed into soil they are suitable for impact from passing light vehicles (max 300 Kg).

T max °C

Maximum external glass working temperature measured at an ambient temperature of 25°C with a 230V/50Hz main supply.

Glass surface temperature can be reduced by up to 10°C using A0349 filter glass accessory, or by up to 5°C using A0350 frosted glass accessory.



CRICKET 25 – Frameless version with stainless steel corner screws blends into the ground for a smooth flush mounting with no surface protrusion. Ideal for installation in marine type environments. CRICKET 25/AL (94) and CRICKET 25/I (04) versions are complete with a glass cover retaining frame in die-cast aluminium finished or AISI 316 stainless steel. The cover frames are particularly useful for covering any imperfections in the surrounding surface in which luminaire is located. CRICKET 25/I (04) stainless steel version suitable for harsh ambient conditions and marine type environments. CRICKET 25 is a smaller version of the CRICKET 40 in-ground uplighters, providing a family of products that can be used together in aesthetic harmony.

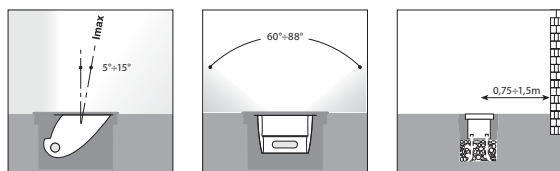
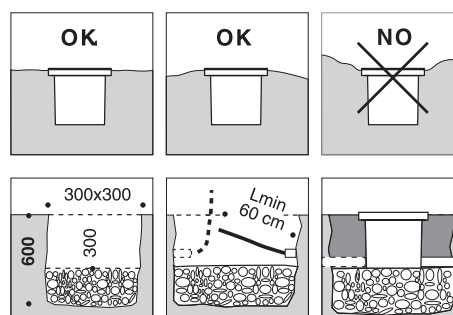


INSTALLATION

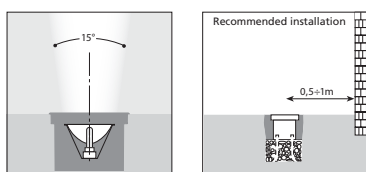
Cricket 25 IP67 recessed in-ground luminaires may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer's installation instructions

- Allow for good water drainage
- Use H07RN-F 2x1,5 mm² /7-12 mm cables only (see accessory A0235).
- The fittings must not be located in a hollow or submerged underwater.
- When installing luminaires within public access it is advisable to be aware of the glass temperatures indicated (Tmax °C - 230V) and confirm measurements at rated voltage are in accordance with national and local standards.

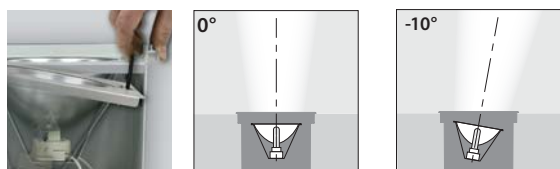
Cricket 25 luminaires are suitable for through wiring connection using A0323 accessory with H07RN-F 2x1,5 mm² cable (max n°54x26W, n°33x42W, n°18x70W or n°9x150W luminaires on a maximum distance of 100 m).



Asymmetrical "wide beam" reflector provides a glare free high uniformity distribution ideal for large area illumination or wall washing. The lamp remains hidden behind the reflector.



Circular "narrow beam" reflector provides a high performance distribution ideal for feature highlighting e.g. columns etc. An internal baffle is offered as an accessory.



Adjustable reflector from 0° to -10° for precision focus and optical control.



CRICKET 25 A With stainless steel clamps - asymmetrical reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
GX24q-3/4	26 - 32 - 42W	FSQ/FSMH		A	04	II	ETRC	A2	•	05161490		55°
E27	70W	ST-MT		A	04	II	CR		•	05160990		80°
RX7s	70W	SD-MD		A	04	II	CR		•	05158490		90°
E27	150W	ME		A	04	II	CR		•	05161090		125°
RX7s	150W	SD-MD		A	04	II	CR		•	05161190		140°



CRICKET 25 C With stainless steel clamps - circular reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
G12	35W	MT		C	04	II	CR		•	05165390		74°
G12	70W	MT		C	04	II	CR		•	05161290		122°
G12	150W	MT		C	04	II	CR		•	05161390		160°



CRICKET 25 AL /A With frame - asymmetrical reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
GX24q-3/4	26 - 32 - 42W	FSQ/FSMH		A	94	II	ETRC	A2	•	05161990		55°
RX7s	70W	SD-MD		A	94	II	CR		•	05158890		90°
RX7s	150W	SD-MD		A	94	II	CR		•	05161790		140°



CRICKET 25 I /A With frame - asymmetrical reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
GX24q-3/4	26 - 32 - 42W	FSQ/FSMH		A	04	II	ETRC	A2	•	05162604		55°
RX7s	70W	SD-MD		A	04	II	CR		•	05162104		90°
RX7s	150W	SD-MD		A	04	II	CR		•	05162304		140°



CRICKET 25 AL/C With frame - circular reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
G12	35W	MT		C	94	II	CR		•	05165490		74°
G12	70W	MT		C	94	II	CR		•	05158590		122°
G12	150W	MT		C	94	II	CR		•	05161890		160°



CRICKET 25 I/C With frame - circular reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	T max °C
G12	35W	MT		C	04	II	CR		•	05165504		74°
G12	70W	MT		C	04	II	CR		•	05162404		122°
G12	150W	MT		C	04	II	CR		•	05162504		160°

- Complete with electronic ballast 220÷240 V 50/60 Hz.
- Version with adjustable lamp position or reflector position.

94 04

CLASS II



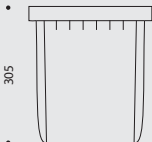
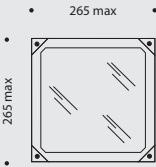
IP 67



IK 10
24J



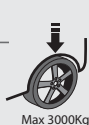
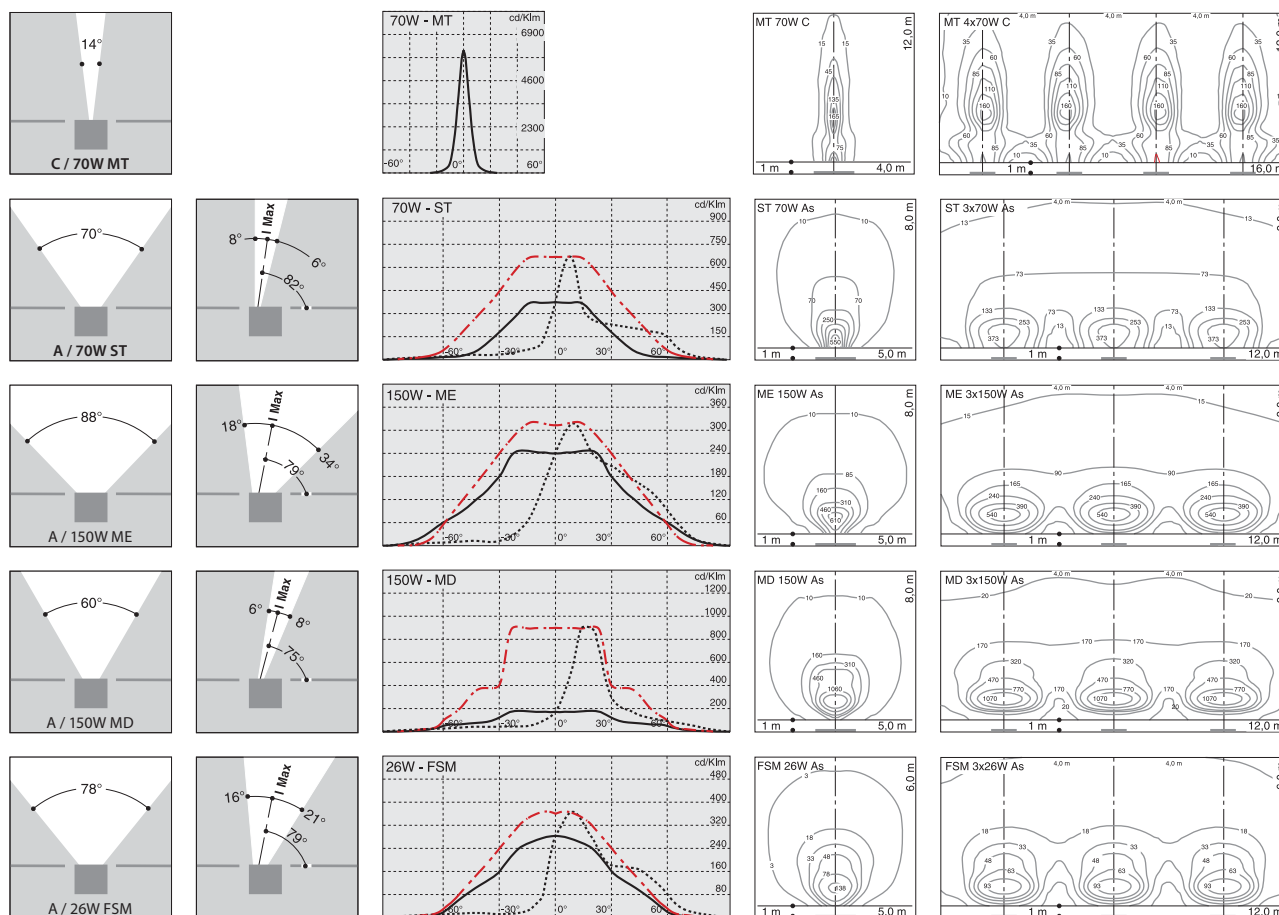
KG
Max 8kg



ACCESSORIES



Code	Denomination	Description
14058412	A0348	Internal aluminium circular baffle for CRICKET 25/C only.
14058520	A0349	Internal low emission filter glass fits behind standard glass cover to reduce the outer glass surface temperature by 10°C. (Not suitable for C/70-150W - A/150W and not to be combined with A0350).
14058820	A0350	Internal frosted glass fits behind standard glass cover to reduce glare and the outer glass surface temperature by 5°C. Not to be combined with A0349.
14051720	A0323	M20 x 1.5 anti-tearing cable gland kit for through wiring connection.
14018320	A0235	H07RN8-F 2x1.5mm ² rubber cable supplied and sold in 1 meter units.
14076720	A0382	1 meter H07RN8-F 2x1.5 mm ² cable supplied complete with fitting.



CRICKET 25

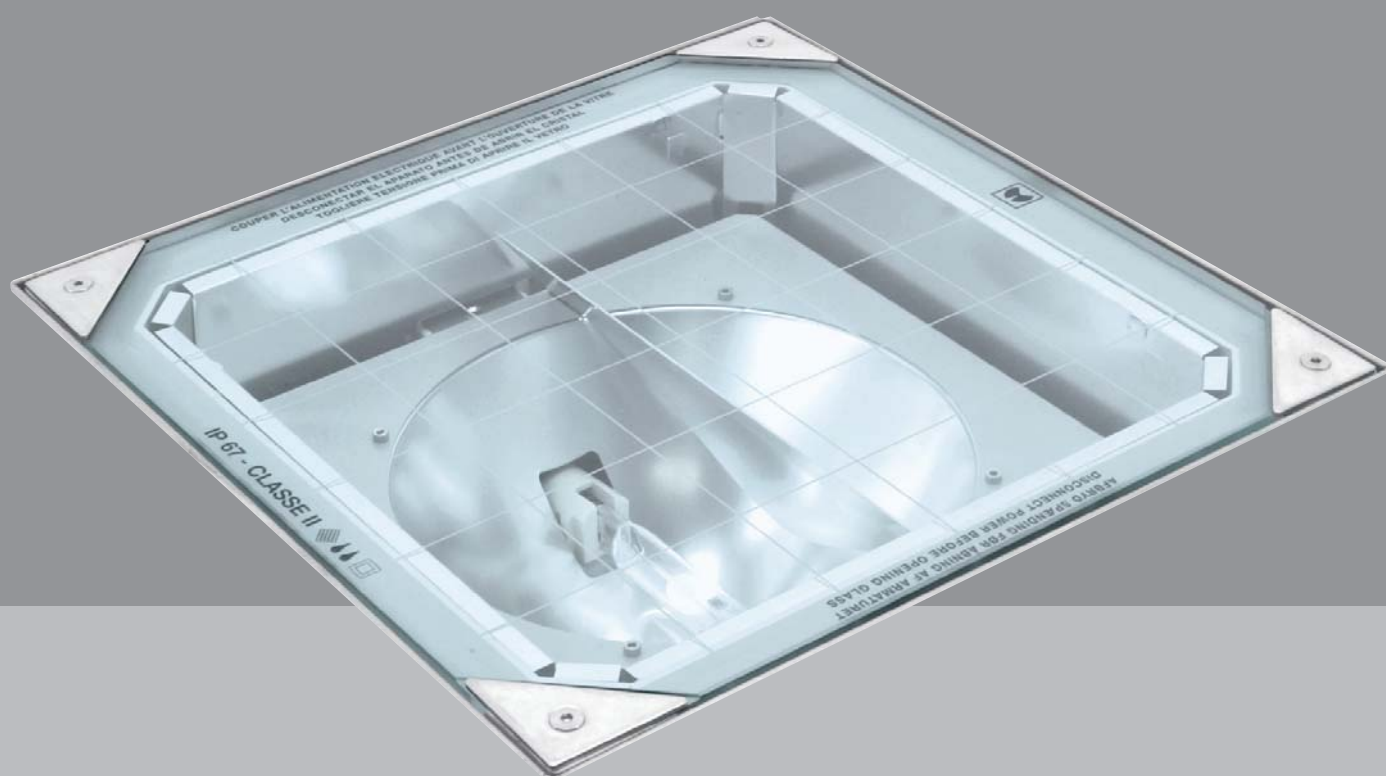
ST		E27	Max 70W	NAV-T / SON-T
SD		Rx7s	Max150W	NAV-TS
MD		Rx7s	Max150W	HQI-TS/ MH-TD/CDM-TD/HCI-TS
ME		E27	Max150W	HQI-E
MT		G12	Max150W	HQI-T/HCI-T/CDM-T
MT		E27	Max 70W	CDO-TT
FSQ		Gx24q-3	26W	DULUX D-E/PLC-4P
FSMH		Gx24q-3/4	32÷42W	DULUX T-E/PLT-4P

CRICKET 40

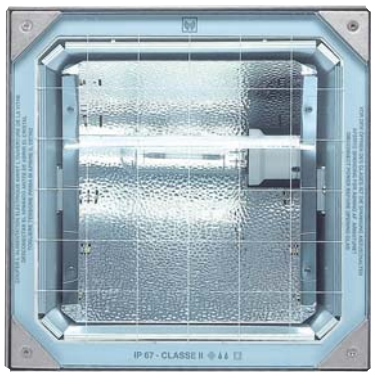
design Silvia Paola Pennacchio

CRICKET 40 in-ground uplighter suitable for HID lamps up to 250W, designed to take the load and impact from pedestrians and motor vehicles, for installation in soil and / or concrete.

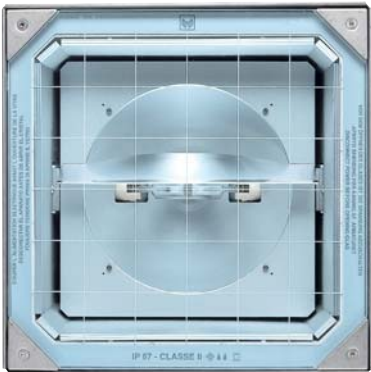
Cricket 40 are manufactured from high quality corrosion resistant materials with precision finishing which makes them suitable for a variety of both indoor and outdoor installations from creating dramatic effects on historical and modern buildings, highlighting architectural features, to illuminating walls / façades, and for general public area lighting.



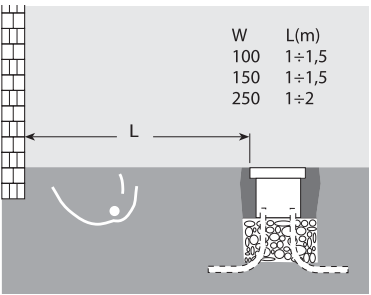




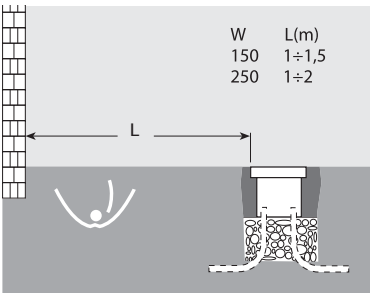
CRICKET 40/Asymmetrical
CRICKET 40/A; asymmetrical reflector (I Max 10°)
complete with a deflector plate to prevent back spill
light.
For greater control of beam distribution the reflector
is adjustable $\pm 10^\circ$ by hand.
150/LT (Low Temperature) versions are supplied
complete with a low emission filter glass mounted
inside the luminaire to lower external glass
temperature. Note this may reduce LOR by up to 20%.



CRICKET 40/Circular
CRICKET 40/C; circular reflector with intensive
narrow beam suitable for architectural detail
high-lighting of columns, statues, arches and
detailed features on buildings.
CRICKET 40/C provides an intense narrow beam of
light which is adjustable $\pm 10^\circ$ by hand.
150/LT - Low Temperature version luminaire is
supplied with a low emission filter glass mounted
inside the luminaire to lower external glass
temperature. Note this may reduce LOR by up to
20%.



Asymmetrical reflector



Circular reflector

When installing luminaires within public access it is advisable to be aware of the glass
temperatures indicated (T max C°) and confirm measurements at rated voltage are in
accordance with national and local standards.



SPECIFICATION:

Strong outer recessing enclosure in AISI 304 (A2) stainless steel.
 Glass fibre reinforced polyamide grey body.
 Two PG16 cable glands for Ø10-14 mm.
 Reflectors in high purity aluminium anodized and polished, asymmetric or circular adjustable by hand $\pm 10^\circ$.
 Anti-ageing one piece UV stabilised silicone gasket.
 20 mm impact resistant safety glass etched in RAL 7035 light grey.
 Non-slip (NS) glass available on request.
 Stainless steel AISI 304 corner fixing plates.
 Internal and external stainless steel fixings.
 Cricket 40 is supplied with a breather valve to releases the internal vacuum allowing quick and safe removal of the glass cover.

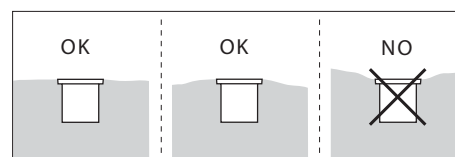
VEHICLE IMPACT RESISTANT

CRICKET 40 in-ground luminaires suitable for soil and / or concrete installation, designed to take the load and impact from pedestrians and motor vehicles.

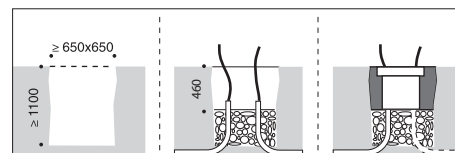
When correctly installed into concrete CRICKET 40 are designed to withstand a maximum travelling load, by motor vehicles with pneumatic tyres, of 20000 Kg gross weight at a maximum speed of 30 Km/h. If installed into earth the luminaires are suitable for pedestrian use only, not motor vehicles.



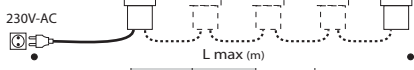
Luminaires must not be located in a hollow or submerged underwater.



Luminaire should be seated on a gravel sump, of approximately ≥ 600 mm depth from base of luminaire, to allow for water drainage. A concrete base under the stainless steel frame is necessary to ensure stable positioning.



To maintain IP67 integrity use toughened rubber cable H07RN-F2x2,5 mm² Ø10-14 mm cables only (see range of accessories). The luminaire is supplied with two PG16 cable glands for through wiring and one stopping plug for single connection.

230V-AC				
				
		L max (m)		
H07RN-F	2x2,5	L max	2x4	L max
100W	12	120	16	160
150W	10	100	13	130
250W	5	100	7	140

CRICKET 40

CRICKET 40 features:

Low surface temperature on glass; body dimension and volume is designed for HID lamps up to 250 W enabling lowered external glass temperatures for installation in public access areas.

High efficiency and light control; adjustable reflector optics and lamp flux deflector plate for precise positioning and glare control. Corrosion resistance and longevity; a polyamide body inside a stainless steel recessing enclosure provides corrosion resistance for use in harsh ambient conditions and marine type environments.

Easy installation and maintenance; quick easy access for electrical connection and through wiring facility.

Aesthetics & engineered design; smooth unobtrusive contemporary design with accessories and lamp options to suit a variety of applications.



04

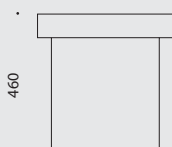
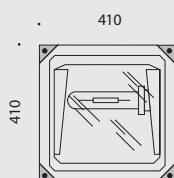
CLASS II

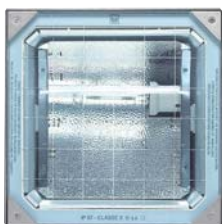


IP 67

IK 09
18JKG
Max 23kg

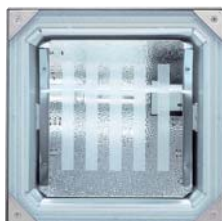
0,5m




CRICKET 40/A Asymmetrical reflector adjustable $\pm 10^\circ$ - models with clear glass.

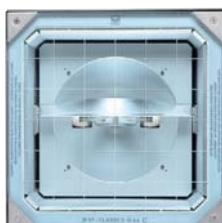
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp $\geq 0,9$	Code	Notes	T max °C
RX7s	150W	SD-MD		A	04	II	CR			• 05066090		88°
RX7s	150W	SD-MD		A	04	II	CR			• 05068590		72°
E40	250W	ST-MT		A	04	II	CR			• 05066290		122°

Models LT. with low-emission filter reducing external temperature on glass.


CRICKET 40/A NS Asymmetrical reflector adjustable $\pm 10^\circ$ - models with non-slip glass.

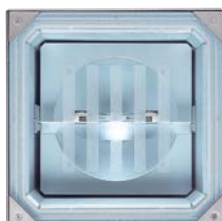
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp $\geq 0,9$	Code	Notes	T max °C
RX7s	150W	SD-MD		A	04	II	CR			• 05063590		88°
RX7s	150W	SD-MD		A	04	II	CR			• 05068890		72°
E40	250W	ST-MT		A	04	II	CR			• 05063790		122°

Models LT. with low-emission filter reducing external temperature on glass.


CRICKET 40/C Circular reflector adjustable $\pm 10^\circ$ - models with clear glass.

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp $\geq 0,9$	Code	Notes	T max °C
RX7s	150W	SD-MD		C	04	II	CR			• 05066490		101°
RX7s	150W	SD-MD		C	04	II	CR			• 05068790		93°
Fc2	250W	MD		C	04	II	CR			• 05066590		140°

Models LT. with low-emission filter reducing external temperature on glass.

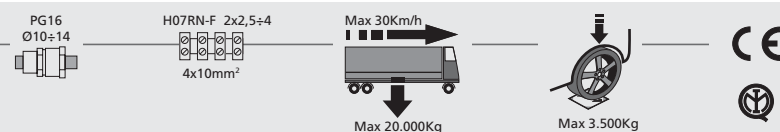

CRICKET 40/C NS Circular reflector adjustable $\pm 10^\circ$ - models with non-slip glass.

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp $\geq 0,9$	Code	Notes	T max °C
RX7s	150W	SD-MD		C	04	II	CR			• 05063890		101°
RX7s	150W	SD-MD		C	04	II	CR			• 05069090		93°
Fc2	250W	MD		C	04	II	CR			• 05066190		140°

Models LT. with low-emission filter reducing external temperature on glass.

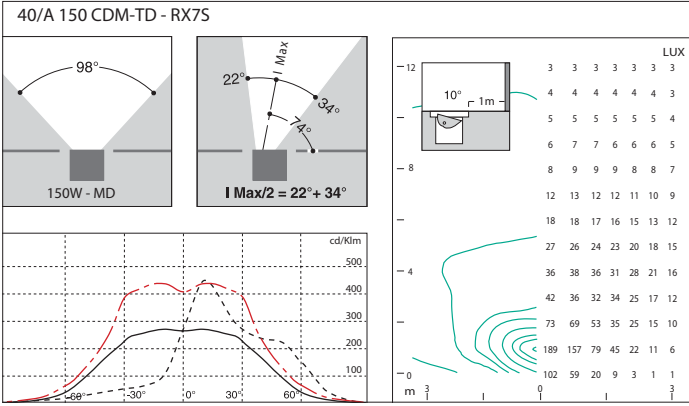
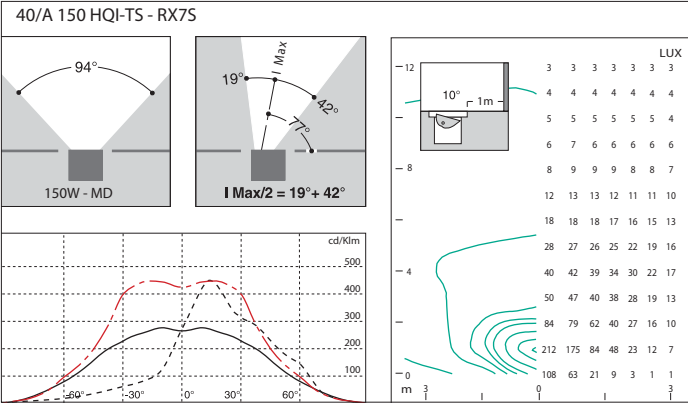
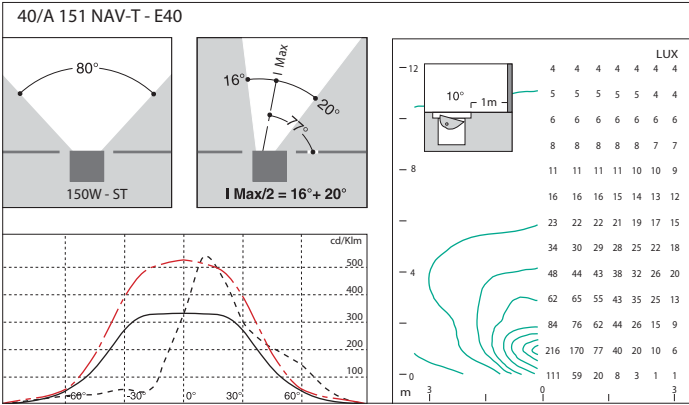
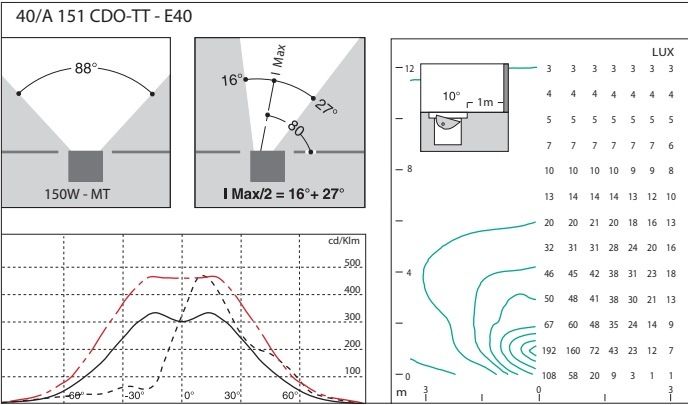
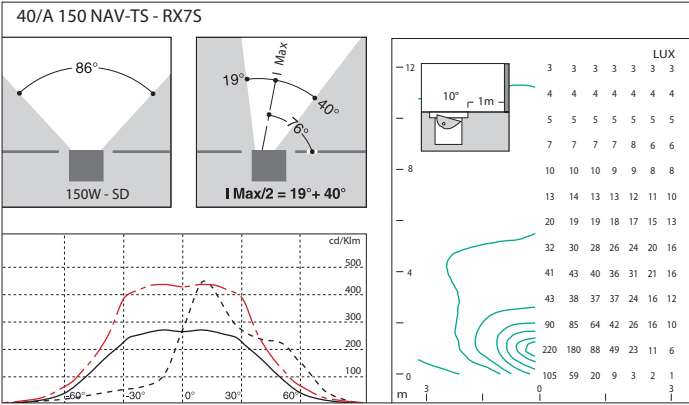
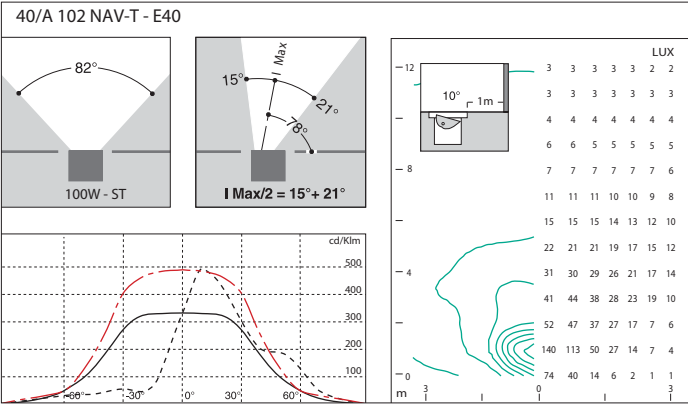
ACCESSORIES

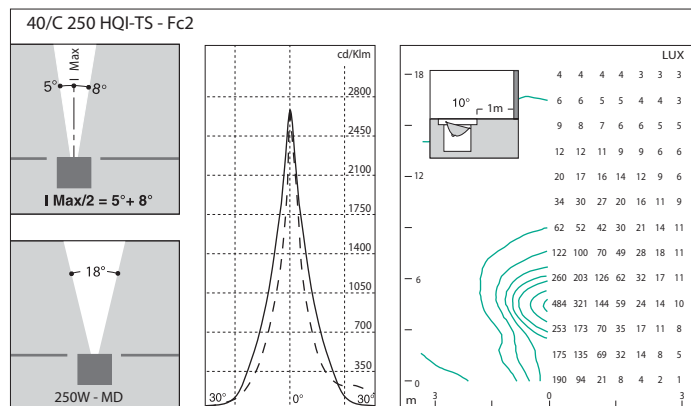
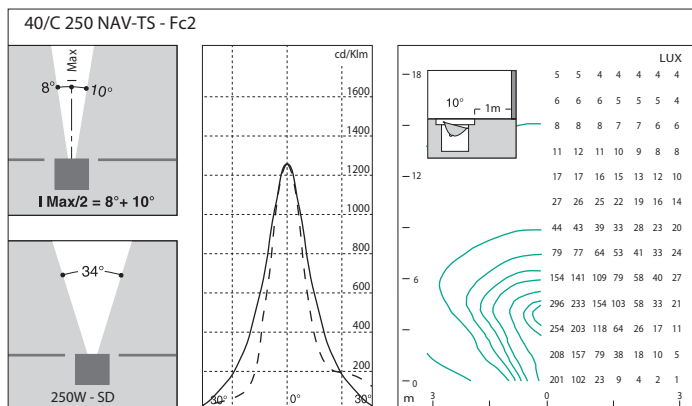
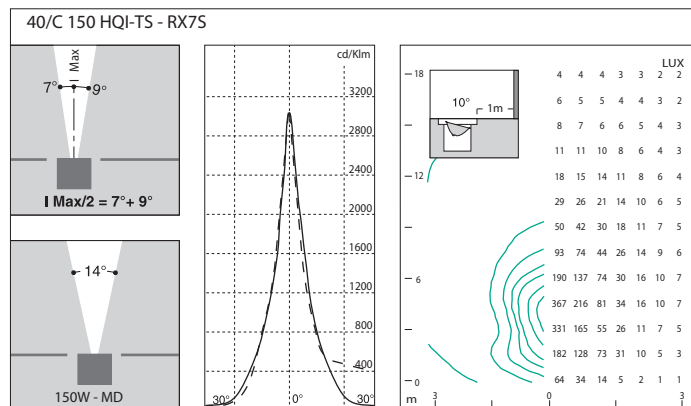
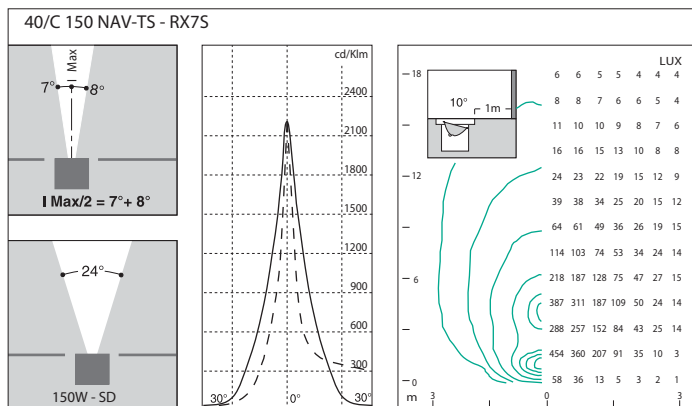
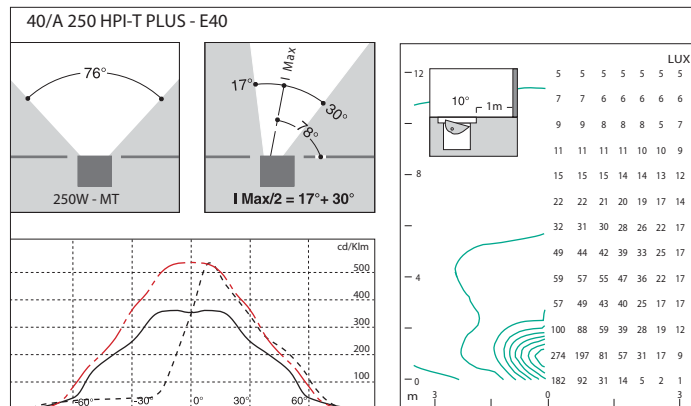
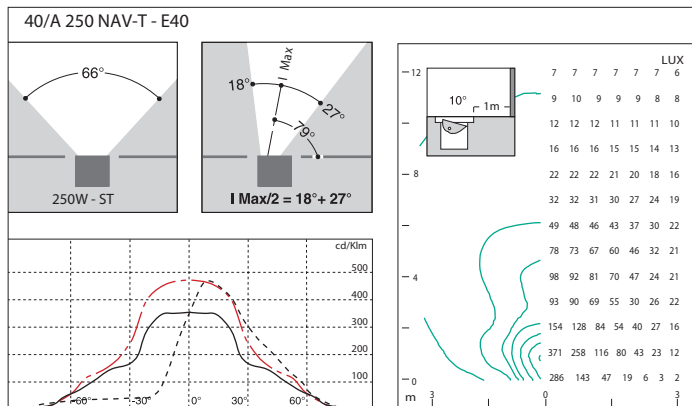

Code	Denomination	Description
14011320	A0205	Anti-vandal locking set comprising 20 stainless steel screws DIN 7991 TP4 (sufficient for no.5 fittings) plus 1 key.
14027420	A0252	CRICKET 40 frosted glass.
14027320	A0251	Supplement for Cricket 40 frosted glass factory fitted to be ordered as a separate item along with fitting.
14053720	A0337	H07RN-F 2x2.5 mm² rubber cable supplied and sold in 1 meter units.
14076820	A0383	1 meter H07RN-F 2x2.5 mm² cable supplied complete with fitting.


CRICKET 40

ST		E40	Max250W	NAV-T/SON-T
SD		Rx7s	Max150W	NAV-TS
SD		Fc2	Max250W	NAV-TS
MD		Rx7s	Max150W	HQI-TS/MH-TD/CDM-TD
MD		Fc2	Max250W	HQI-TS/MH-TD
MT		E40	Max250W	CDO-TT/ HQI-T-D/HPI-T Plus

CRICKET 40





CRICKET 61

design Silvia Paola Pennacchio

CRICKET 61 contemporary linear IP67 recessed luminaire suitable for indoor and outdoor applications with extremely cool touch surface temperatures (47°C max.), designed to take the load and impact from pedestrians and motor vehicles.

CRICKET 61 is suitable for in-ground, wall, ceiling and under-canopy installations providing energy efficient lighting for public areas, advertising signage, façades / walls, and highlighting architectural features.





Cricket 61 lamp options:

- High Efficiency 14W T5 (HE) and High Output 24W T5 (HO), with excellent color rendering and longevity.
- High efficiency LED and RGB colour changing.

Cricket 61 luminaires are supplied with various reflector options to satisfy the demands of various lighting applications:

- asymmetrical reflector (Imax at 11°), provides progressively uniform uplighting for walls with no back light spillage.
- symmetrical reflector provides a highly efficient distribution creating dramatic effects.

Cricket 61 LED versions have $\pm 20^\circ$ adjustable optics.

Fast and easy luminaire installation with options for single unit or through wiring connection (through wiring not possible on RGB LED versions).

Cricket 61 recessed luminaire satisfies a variety of lighting demands with energy efficient high performance results for public areas, advertising signage, façades / walls, and highlighting architectural features



SPECIFICATION:

Technopolymer body and outer recessing enclosure provides good corrosion resistance.

Cover frames in die-cast aluminium finished (Cricket 61/AL-94) or AISI 316 stainless steel (Cricket 61/I-04).

Reflectors in high purity 99.85% aluminium anodized and polished. Silicone rubber anti-aging gaskets.

Toughened "safety" glass with extremely low surface temperatures (47°C Max).

Electronic ballasts 220-240V, 50/60Hz.

Two PG M20x1.5 cable glands complete with stopper, for single or through wiring connection (no LED RGB).

Two 2x2.5 mm² push fit terminals pre-wired for through wiring connection with 2x1.5 mm² cable.

Stainless steel screws.

Special options for voltage / frequency, colours and VO-850° self extinguishing materials are available on request.

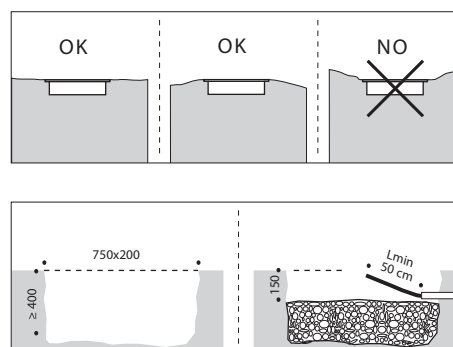
To maintain IP67 integrity use toughened rubber cable H07RN-F 2x1.5 mm² Ø9-12 mm (see range of accessories) or H07RN-F 2x2.5 mm² max Ø12 mm cables only. When using H07RN-F 2x1.5 mm² cable for through wiring in a continuous line we recommend a maximum of 90x14 W luminaires on a maximum 75m length, or a maximum of 70x24 W luminaires on a maximum 60m length.



INSTALLATION

Cricket 61 IP67 recessed in-ground luminaires may be subjected to heavy load and impact from pedestrians and motor vehicles during use. For optimum performance and safety it is important that they are correctly installed by a suitable qualified person, in strict accordance with the manufacturer's installation instructions.

Luminaires must not be installed in a hollow position and should be seated on a gravel sump, of approximately ≥ 250 mm depth from base of luminaire, to allow for water drainage.



CRICKET 61 luminaires may be installed in continuous rows by using the A0250 joining kit accessory. For indoor installations there is no limit to the number of luminaires that may be installed in a continuous line. In outdoor applications we recommend a maximum of five units Cricket 61/AL-94 and ten units Cricket 61/I-04, due to the possibility of heat expansion on the joining plates.



CRICKET 61 LED



CRICKET 61LED/HP AL-I With 8 led from 1.4 W, adjustables ±20°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp	Code	Notes	T max °C
n°8 led 350 mA DC	11,2W		6.000°	C 15°	94	II	ETRC			06013594	E I	32°
n°8 led 350 mA DC	11,2W		6.000°	C 15°	04	II	ETRC			06013804	E I	32°

E I Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

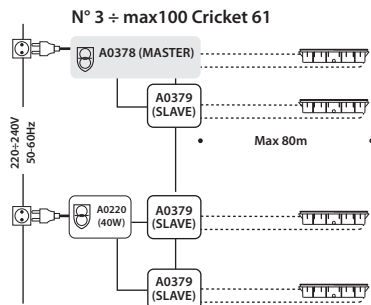
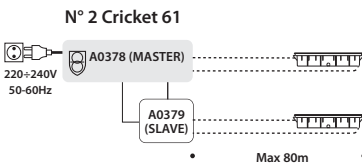
LED versions must be fed from a 220÷240 V 50/60 Hz mains supply. They are supplied complete with two cable glands with internal wiring suitable for single or through wiring connection (Maximum 35 luminaires on a maximum 100m length).

CRICKET 61LED/HP-RGB AL-I With 5 colour changing multi-led

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp	Code	Notes	T max °C
n.5 led RGB 350mA DC	18 W		RGB	C 45°	94	III				06013794	!	32°
n.5 led RGB 350mA DC	18 W		RGB	C 45°	04	III				06014004	!	32°

! CRICKET 61/LED - HP / RGB Class III luminaires complete with 5 colour changing multi-chip LED's (5 x 3.6W - 45°). Luminaires require an RGB supply and control unit (MASTER) for operation. Connections between MASTER unit and luminaires should be made using the appropriate cable supplied as accessory A0380. The RGB system provides the choice of three colour changing programs: All colour rainbow (70 sec. cycle), warm colours (50 sec. cycle) and cold colours (50 sec. cycle). Single colour fixed options are also possible. MASTER unit (A0378), to be ordered together with luminaires, should be installed in a suitable enclosed location at a maximum distance of 80M from the luminaires.

- Operating 1 luminaire: one MASTER unit A0378
- Operating 2 luminaire: one MASTER unit A0378 + one SLAVE unit A0379.
- Operating 3 up to a max 100 luminaires: one MASTER unit A0378 + A0379 "qty" SLAVE units + A0220/40 "qty" Transformer.
- A0379 "qty" = (Total no. luminaires -1)
- A0220/40 "qty" = (rounding up total no. luminaires to nearest multiple 2) ÷ 2.



ACCESSORIES



Code	Denomination	Colour	Description
14071920	A0378	94	Driver and control unit including 40W transformer. 220-240V, 50/60Hz AC 24V CC. complete with MASTER colour changing unit (suitable to operate one CRICKET 61 LED RGB).
14072020	A0379	94	Additional (SLAVE) colour changing unit (suitable to operate one CRICKET 61 LED RGB). SLAVE units are controlled via MASTER unit.
14015520	A0220/40	94	40W Electronic transformer 115-240V 50/60Hz AC/24V CC, mounted on galvanised steel tray.
14072220	A0381		Infrared remote control for colour changing MASTER unit.
14072120	A0380		S05RN-F 3x1 mm² x RGB cable sold and supplied in 1 meter units.
14018320	A0235		Rubber cable H07RN-F 2x1.5mm² supplied and sold in 1 meter units (no RGB).
14076720	A0382		1 meter H07RN-F 2x1.5 mm² cable supplied complete with luminaire (no RGB).

9404

CLASS II

IP 67

IK 09 18J

F

KG Max 4,5kg

CLASS III

Only models LED-RGB

630

150

670

CRICKET 61-LED

LED/HP Max N°8-11,2W

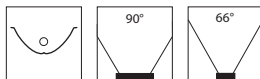
LED/HP - RGB Max N°5-18W

CRICKET 61 S / A



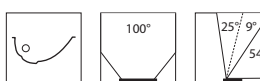
CRICKET 61/S AL-I

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	T max °C
G5	14-24W	FDH		S	94	II	ETRC A2	•		05096894		• 47°
G5	14-24W	FDH		S	04	II	ETRC A2	•		05097204		• 47°



CRICKET 61/A AL-I

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	T max °C
G5	14-24W	FDH		A	94	II	ETRC A2	•		05096694		• 45°
G5	14-24W	FDH		A	04	II	ETRC A2	•		05097004		• 45°



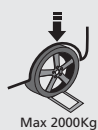
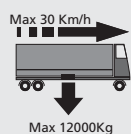
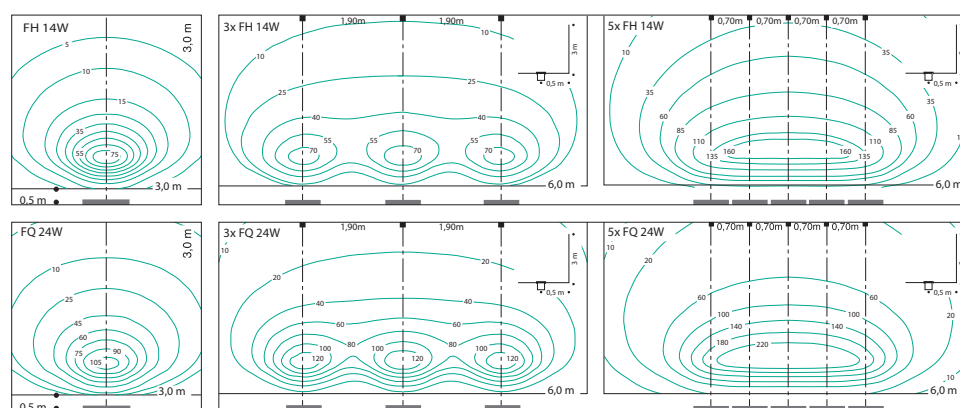
Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

ACCESSORIES



Code	Denomination	Colour	Description
14018320	A0235		Rubber cable H07RN-F 2x1.5mm ² supplied and sold in 1 meter units.
14076720	A0382		1 meter H07RN-F 2x1.5 mm ² cable supplied complete with luminaire.
14026620	A0250/AL	94	Mechanical joining kit accessory for continuous line connection of two luminaires. A0250/AL - Aluminium plate finished aluminium grey.
14026720	A0250/Inox	04	A0250/I - AISI 316 stainless steel plate. In outdoor applications we recommend a maximum of five units /AL and ten units /Inox.

PHOTOMETRICS



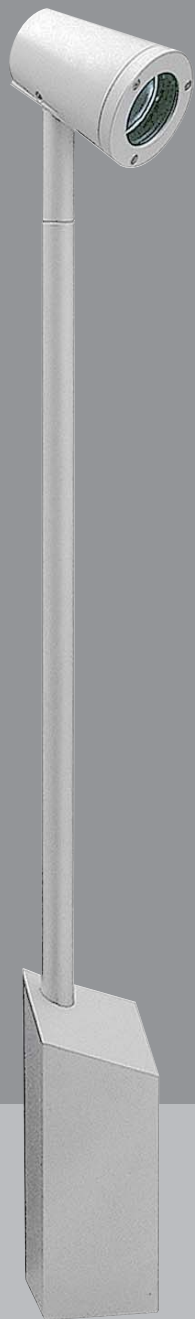
CRICKET 61 /AL-I

FH G5 14W Lumilux FQ / Master TL5 HO

FQ G5 24W Lumilux FQ / Master TL5 HO

TYCO 10

design Silvia Paola Pennacchio



TYCO 10 small spotlight luminaires suitable for halogen, dichroic, or LED operating on a low voltage (12V) or mains supply. Class II and class III IP66 corrosion resistant luminaires manufactured from die-cast aluminium suitable for indoor and outdoor applications

TYCO 10 small version is available with the following options:

- Tyco 10: Floor, wall or ceiling mounted.
- Tyco 12: Complete with 540mm extension arm for wall mounting.
- Tyco 13: Complete with ground mounting base unit and 900mm extension arm.

The compact design and simple clean lines combined with high quality materials and finishing makes TYCO 10 suitable for a variety of indoor and outdoor architectural applications. A wide range of light sources and accessories provide options for various lighting beam distributions and lighting effects, creating a highly adaptable luminaire suitable for highlighting and effect lighting of showrooms, shops, galleries, museums, sculptures and architectural detail lighting of buildings, gardens, churches etc.





TYCO 10 - 12

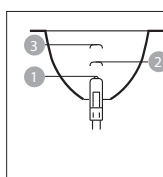
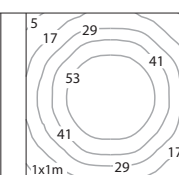
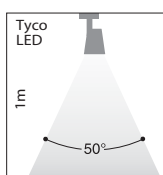
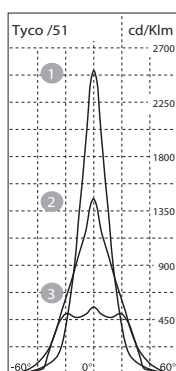
Body, frame and wiring / gear box in chromate pre-treated corrosion resistant die-cast aluminium finished polyester or matt black.
 Impact resistant safety glass.
 Reflector in high purity 99.85% aluminium anodized and polished.
 Gasket locating ring in technopolymer, resistant to very high temperatures.
 Anti-ageing silicone gasket
 Internal wiring in Teflon / silicone sheathed cables.
 Cable entry Ø7-10 mm-2x1-1.5 mm²
 Stainless steel external screws.



INSTALLATION

Easy and fast installation with the following features:

- Practical and simple base mounting with wiring compartment.
- Class II & Class III luminaires no earth connection required.
- Suitable for through wiring.



Models complete with self adjustable lamp, in three positions, for wide to narrow beam light distributions.

94 81

CLASS II

CLASS III

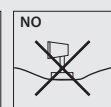
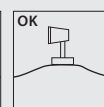
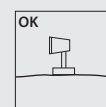
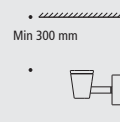
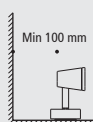
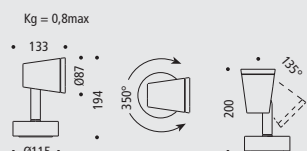
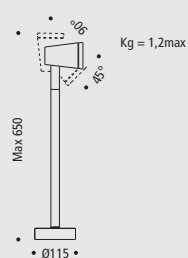
IP 66

IK 07
2J

F

KG
Max 1,2kg

Ø0,3mm





TYCO 10

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Co _{sp} ≥ 0,9	Code	Notes
GU5,3	max 50W/12V	HRGS			94	III			•	01019294	! ¹
GY6,35	max 50W/12V	HSGS		C	94	III			•	01019394	! ¹ E ₂
GZ10	max 50W	HRGS			94	II			•	01020494	! ²
GU5,3	max 50W/12V	HRGS			94	II	ETRC		•	04010094	T
GY6,35	max 50W/12V	HSGS		C	94	II	ETRC		•	04012094	T E ₂
n. 3 led 350mA	4,2W		○ 6.000	C 45°	94	II	ETRC		•	06009994	E ₁
GU5,3	max 50W/12V	HRGS			81	III			•	01028681	! ¹
GY6,35	max 50W/12V	HSGS		C	81	III			•	01028781	! ¹ E ₂
GZ10	max 50W	HRGS			81	II			•	01028881	! ²
GU5,3	max 50W/12V	HRGS			81	II	ETRC		•	04017481	T
GY6,35	max 50W/12V	HSGS		C	81	II	ETRC		•	04017581	T E ₂
n. 3 led 350mA	4,2W		○ 6.000	C 45°	81	II	ETRC		•	06010081	E ₁

E₁ Complete with electronic ballast non dimmable 95+240 V 50/60 Hz.

T Complete with electronic transformer non dimmable 230 V 50/60 Hz.

!¹ Models less transformer require 12V supply.

!² Models for mains voltage lamp versions.



TYCO 12

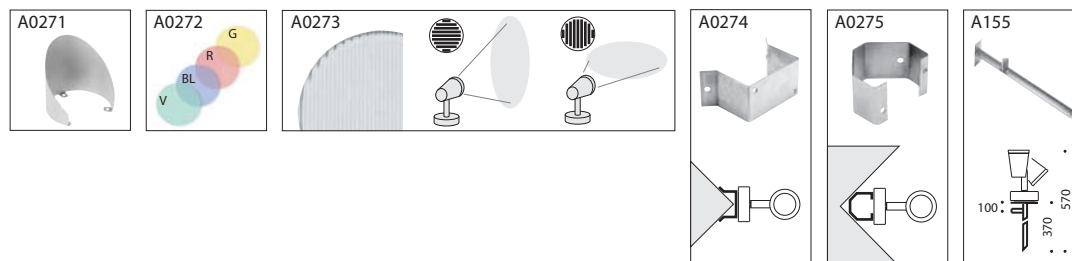
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Co _{sp} ≥ 0,9	Code	Notes
GU5,3	max 50W/12V	HRGS			94	III			•	01020894	! ¹
GZ10	max 50W	HRGS			94	II			•	01021094	! ²
GU5,3	max 50W/12V	HRGS			94	II	ETRC		•	04012194	T
GU5,3	max 50W/12V	HRGS			81	III			•	01028981	! ¹
GZ10	max 50W	HRGS			81	II			•	01029181	! ²
GU5,3	max 50W/12V	HRGS			81	II	ETRC		•	04017681	T

T Complete with electronic transformer non dimmable 230 V 50/60 Hz.

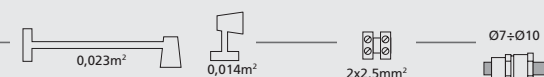
!¹ Models less transformer require 12 V supply.

!² Models for mains voltage lamp versions.

ACCESSORIES



Code	Denomination	Colour	Description
14048381	A0271	81	External aluminium cowl finished polyester painted matt black.
14037894	A0271	94	External aluminium cowl finished polyester painted aluminium grey.
14037920	A0272	R	Internal dichroic colour filters (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038020	A0272	G	Internal dichroic colour filters (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038120	A0272	V	Internal dichroic colour filters (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038220	A0272	BL	Internal dichroic colour filters (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038320	A0273		Internal prismatic glass rotates through 180° to give oval light distribution (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14038404	A0274	04	AISI 304 stainless steel bracket for external 90° corner mounting (not suitable for TYCO 13).
14038504	A0275	04	AISI 304 stainless steel bracket for internal 90° corner mounting (not suitable for TYCO 13).
14040936	A155		TYCO 10/12 galvanised steel spike for ground installation.



TYCO 10-12

HAGS		GZ10	Max50W
HRGS		GU5,3	Max50W
HSGS		GY6,35	Max50W
LED			N°3-4,2W

TYCO 13

Body, frame and wiring / ground mounting base in chromate pre-treated corrosion resistant die-cast aluminium finished polyester or matt black.
Impact resistant safety glass.
Reflector in high purity 99.85% aluminium anodized and polished.
Gasket locating ring in technopolymer, resistant to very high temperatures.
Anti-ageing silicone gasket
Internal wiring in Teflon / silicone sheathed cables.
Cable entry Ø7-10 mm-2x1-1.5 mm²
Stainless steel external screws.
TYCO 13 ground mounted luminaire suitable for indoor and outdoor applications e.g. walkway lighting in gardens and parks, or highlighting and effect lighting for architectural features.
TYCO 13 is supplied complete with hot dipped galvanized steel spikes for ground mounting installations in soil or concrete.
A0276 ground mounting plate accessory for direct to floor surface fixing.



TYCO 13 Complete with steel spike

Lampholder	W	Ilcos	"K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
GU5,3	max 50W/12V	HRGS			81	III			•	01029281	!¹
GU5,3	max 50W/12V	HRGS			94	III			•	01021194	!¹
GZ10	max 50W	HRGS			81	II			•	01029481	!²
GZ10	max 50W	HRGS			94	II			•	01021394	!²
GU5,3	max 50W/12V	HRGS			81	II	ETRC		•	04017881	T
GU5,3	max 50W/12V	HRGS			94	II	ETRC		•	04012394	T

T Complete with electronic transformer non dimmable 230 V 50/60 Hz.
!¹ Models less transformer require 12 V supply.
!² Models for mains voltage lamp versions.



94

81

CLASS II

CLASS III

IP 66

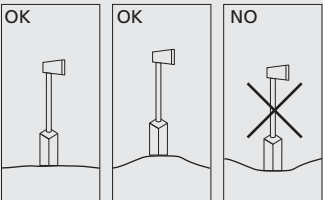
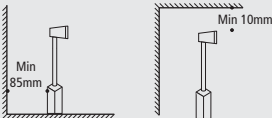
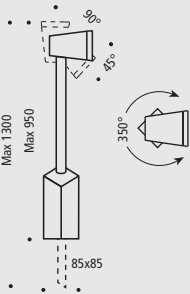
IK 07
2J

F

KG
Max 3kg

0,3m

0,05 m²



ACCESSORIES



Code	Denomination	Colour	Description
14048381	A0271	81	External aluminium cowl finished polyester painted matt black.
14037894	A0271	94	External aluminium cowl finished polyester painted aluminium grey.
14037920	A0272	R	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038020	A0272	G	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038120	A0272	V	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038220	A0272	BL	Internal dichroic colour filters (not suitable for TYCO GZ 10 lamp or use with A0273 accessory).
14038320	A0273		Internal prismatic glass rotates through 180° to give oval light distribution (not suitable for TYCO GZ10 lamp or use with A0273 accessory).
14048481	A0276	81	TYCO 13 stainless steel ground mounting plate finished polyester painted matt black.
14038694	A0276	94	TYCO 13 stainless steel ground mounting plate finished polyester painted aluminium grey.



TYCO 13

HAGS		GZ10	Max50W
HRGS		GU5,3	Max50W

TYCO 11

design Silvia Paola Pennacchio

TYCO 11 die cast aluminium spotlight luminaires suitable for indoor and outdoor applications, designed for use with new generation compact metal halide lamps; CDM-TM 20W/CMH MR16 20W.

TYCO 11 is available in the following versions:

- TYCO 11 MT for floor or wall mounted
- TYCO 11 SLIM FL floor mounted only.
- TYCO 11 SLIM WL wall mounted only.

Ideal for applications that require gear box to be hidden discreetly, gear box to be ordered as a separate item in addition to spotlight luminaire.

A contemporary designed luminaire manufactured from high quality materials, suitable for a variety of applications as accent and feature lighting; for buildings façades, highlighting architectural features in museums, churches, galleries or effect lighting in retail and showrooms etc.





TYCO 11 MT

Manufactured from die-cast aluminium sandblasted and phosphor-chromate pre-treatment, finished painted; anthracite-grey, silver-grey, or black.
5mm impact resistant safety glass.
Anti-aging single piece (no joints) silicone gasket.
High purity aluminium (99.5%) reflector anodised and polished (TYCO 11/20 MT versions).
Fixing base in fibreglass reinforced technopolymer, c/w isolating terminal connector disconnects supply on removal of luminaire from base for safe and simple installation.
Supply 220-240V, 50/60Hz electronic control gear version (TYCO 11/20 MT) 230V 50/60Hz conventional magnetic gear versions (TYCO 11/21 MT) other voltages available on request.
Cable gland suitable for Ø7-10mm type H05RN-F3G 1.5mm²
Stainless steel external screws.
Lamp compartment head is adjustable and can be locked in position by fixing screw.
A wide range of accessories are available to satisfy a variety of applications.



TYCO 11/20 MT

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEl =	Cosp ≥ 0,9	Code	Notes
PGJ5	20	MC		C	81	I	ETRC			04023881	
PGJ5	20	MC		C	94	I	ETRC			04023994	
PGJ5	20	MC		C	96	I	ETRC			04024096	



TYCO 11/21 MT

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEl =	Cosp ≥ 0,9	Code	Notes
GX10	20	MR16			81	I	ETRC			04025181	
GX10	20	MR16			94	I	ETRC			04025294	
GX10	20	MR16			96	I	ETRC			04025396	

94

81

96

CLASS I

IP 66

IK 07 2J

F

KG
Max 1,2kg

0,3m

H05RN-F
3x1,5mm²

Ø7÷Ø10

360°

66 mm

Max 205 mm

90°

OK

OK

NO

Min 10 cm

Min 30 cm

Min 10 cm

TYCO 11

MC PGJ5 20W CDM-TM

MR16 GX10 20W CMH-MR16

48

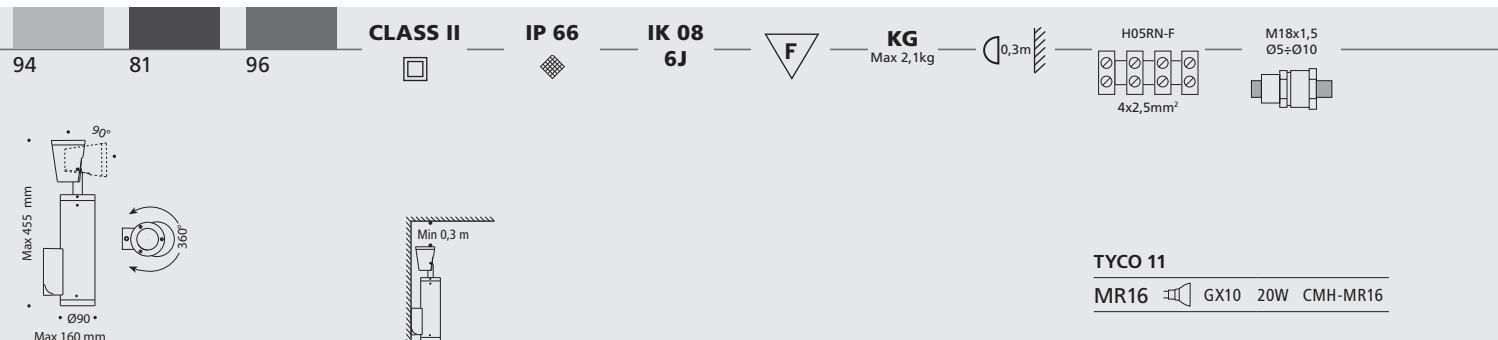
TYCO 11 SLIM WL

Luminaire head manufactured from die-cast aluminium sandblasted and phosphor-chromate pre-treatment, finished painted; anthracite-grey, silver-grey, or black.
 5mm impact resistant safety glass.
 Anti-aging single piece (no joints) silicone gasket.
 Cylindrical body manufactured from extruded aluminium with die-cast aluminium ends finished painted; anthracite-grey, silver-grey, or black.
 Wiring box in fibreglass reinforced technopolymer.
 Supply 230 V 50/60 Hz conventional magnetic gear versions (TYCO 11/21 Slim WL) other voltages available on request.
 Cable gland suitable for Ø5-10 mm type H05RN-F 2 x 1.5mm².
 Stainless steel external screws.
 Lamp compartment head is adjustable and can be locked in position by fixing screw.
 A wide range of accessories are available to satisfy a variety of applications.



TYCO 11/21 SLIM / WL (Wall)

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
GX10	20	MR16			81	II	ETRC			04026081	
GX10	20	MR16			94	II	ETRC			04026194	
GX10	20	MR16			96	II	ETRC			04026296	



TYCO 11 SLIM FL

Luminaire head manufactured from die-cast aluminium sandblasted and phosphor-chromate pre-treatment, finished painted; anthracite-grey, silver-grey, or black. 5mm impact resistant safety glass.

Anti-ageing single piece (no joints) silicone gasket.

Cylindrical body manufactured from extruded aluminium with die-cast aluminium ends finished painted; anthracite-grey, silver-grey, or black.

Wiring box in fibreglass reinforced technopolymer.

Supply 230 V 50/60 Hz conventional magnetic gear versions (TYCO 11/21 Slim FL) other voltages available on request.

Cable gland suitable for Ø5-10 mm type H05RN-F 2 x 1,5 mm²

Stainless steel external screws.

Lamp compartment head is adjustable and can be locked in position by fixing screw.

A wide range of accessories are available to satisfy a variety of applications.



TYCO 11/21 SLIM / FL (Floor)

Lampholder	W	lcos	*K	Optic	Colour	Class	Wiring	EEl =	Cosp ≥ 0,9	Code	Notes
GX10	20	MR16			81	II	ETRC			04025481	
GX10	20	MR16			94	II	ETRC			04025594	
GX10	20	MR16			96	II	ETRC			04025696	

94

81

96

CLASS II

IP 66

IK 08 6J

F

KG
Max 2,1kg

0,3m

H05RN-F
4x2,5mm²

M18x1,5
Ø5÷Ø10

• Ø87 •

415

• Ø90 •

360°

OK

OK

NO

NO

NO

Min 0,3 m

TYCO 11

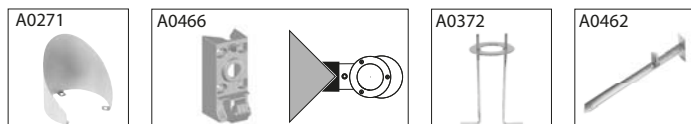
MR16

GX10

20W

CMH-MR16

ACCESSORIES



Code	Denomination	Colour	Description
14048381	A0271	81	External aluminium cowl finished powder coated black.
14037894	A0271	94	External aluminium cowl finished powder painted aluminium grey.
14096296	A0271	96	External aluminium cowl finished powder coated.
14094681	A0466	81	90 °Angle wall bracket TYCO 11 SLIM/WL black.
14094794	A0466	94	90 °Angle wall bracket TYCO 11 SLIM/WL painted aluminium grey.
14094896	A0466	96	90 °Angle wall bracket TYCO 11 SLIM/WL grey.
14071320	A0372		Anchor rods for in-ground concrete mounting stainless steel plate with galvanised steel rods (TYCO11 SLIM/FL only).
14092202	A0462		Galvanised steel ground mounting spike (TYCO11 SLIM/FL only).
14093920	A0464		20W CDM-TM electronic ballast mounted on galvanised steel gear tray supplied with 2M cable. - IP20 class I -
14094020	A0465		20W CMH-MR16 electronic ballast mounted on galvanised steel gear tray supplied with 2M cable. - IP20 class I -

TYCO 20

design Silvia Paola Pennacchio

TYCO 20 spotlights are the higher wattage and larger version within the TYCO range suitable for lamps up to 150W metal halide. A compact high performance luminaire providing dramatic effect lighting and highlighting for modern or historical buildings, walls, walkways, façades, parks and gardens.

Available in three versions:

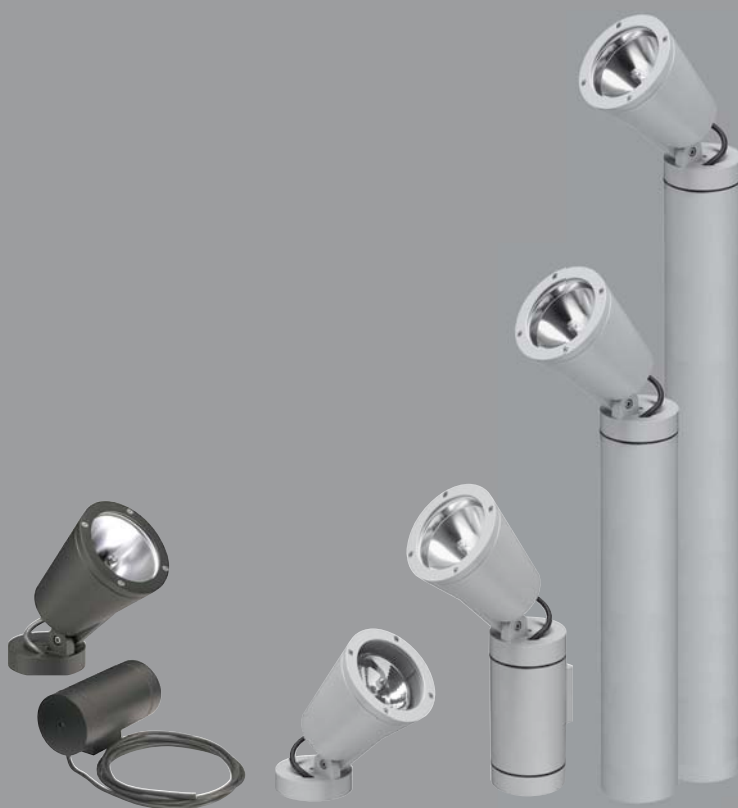
TYCO 20 complete with integral control gear.

TYCO 21 + BOX TYCO 21 luminaire with remote control ballast housing. Ideal for installations that require a more discreet luminaire with ballast housing es remotely concealed. The appropriate ballast housing should be ordered as a separate item in addition to the luminaire.

TYCO 22 luminaire complete with integral transformer.

TYCO 23: luminaire and box are parts of a single body developed on column, to fix directly to the floor or to the ceiling (according to the models).

TYCO is available with a wide selection of light sources and accessories making them an adaptable luminaire for highlighting architectural details on buildings and sculptures, to creating dramatic effect lighting in showrooms, shops, galleries, museums, churches and gardens etc. TYCO is an ideal product to enhance the features of the most prestigious projects.







TYCO 20

Complete with integral control gear.



TYCO 21

TYCO 21 + BOX TYCO 21 luminaire with remote control ballast housing. Ideal for installations that require a more discreet luminaire with ballast housing remotely concealed. The appropriate ballast housing should be ordered as a separate item in addition to the luminaire.



TYCO 22

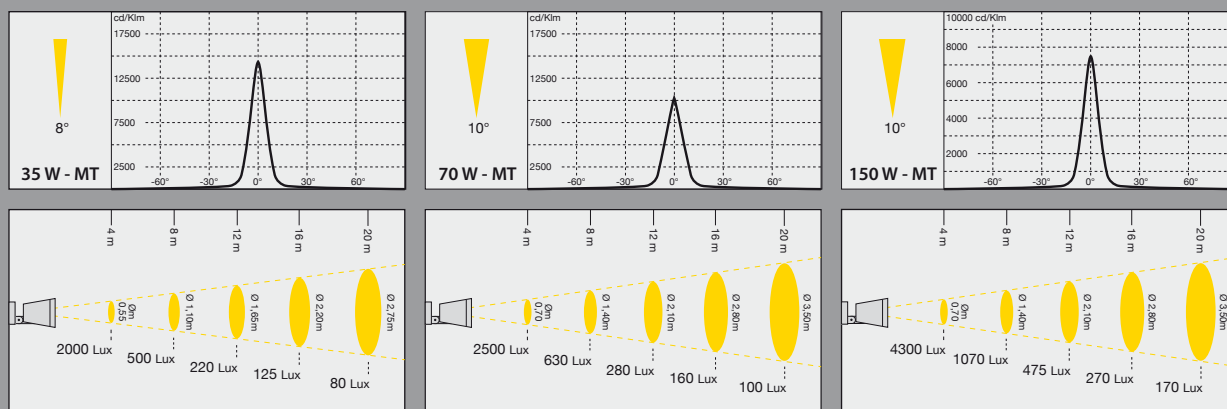
Luminaire complete with integral transformer.



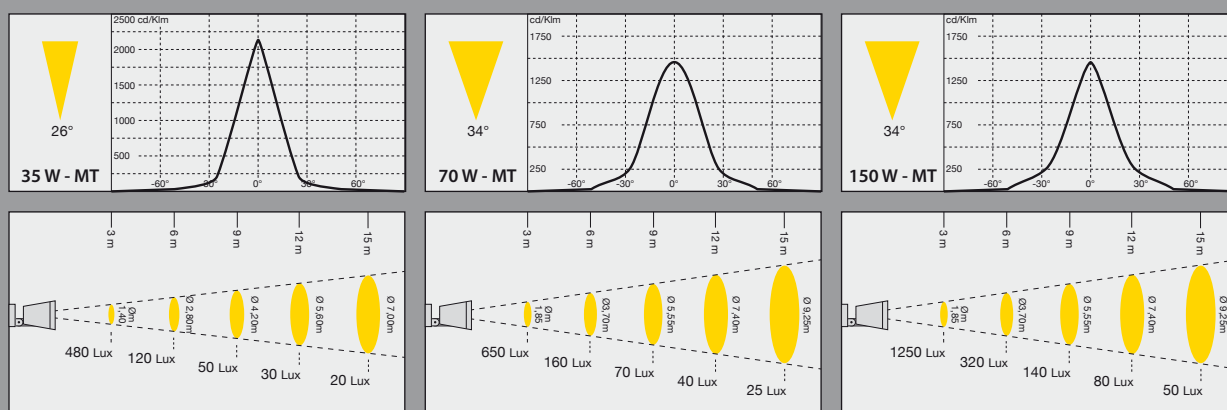
TYCO 23

Luminaire and ballast housing are parts of a single body developed on column, to fix directly to the floor or to the ceiling (according to the models).

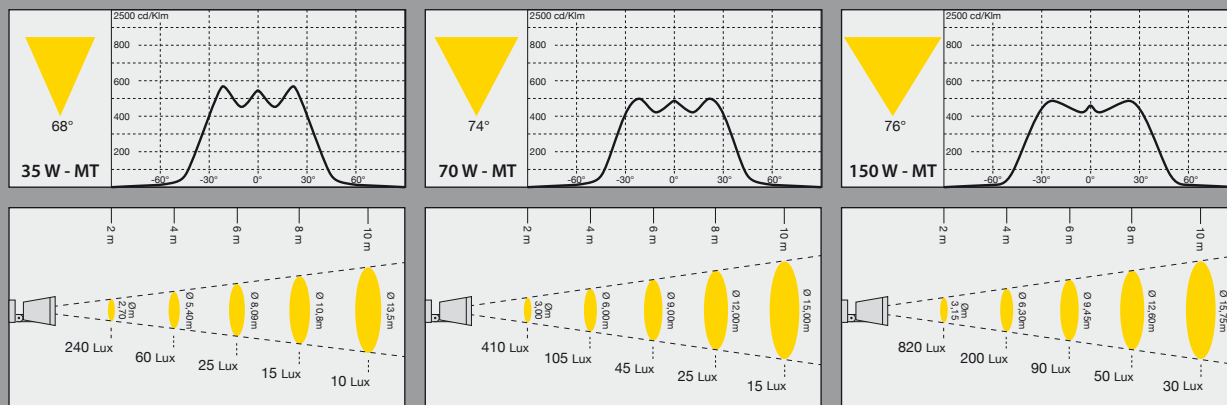
TYCO 20 INT



TYCO 20 M



TYCO 20 W



TYCO 20

SPECIFICATION:

Body, frame and wiring / ballast housing in chromate pre-treated corrosion resistant die-cast aluminium finished polyester or matt black. Impact resistant safety glass.

Anti-aging silicone gasket

Reflector in high purity aluminium anodized and polished, available as wide (W), medium (M) and narrow (INT) distribution.

Control gear available as integral or remote box, with electronic gear (ETRC) 220-240 V, 50/60 Hz - Class I or conventional electromagnetic (CR) mains voltage - Class II.

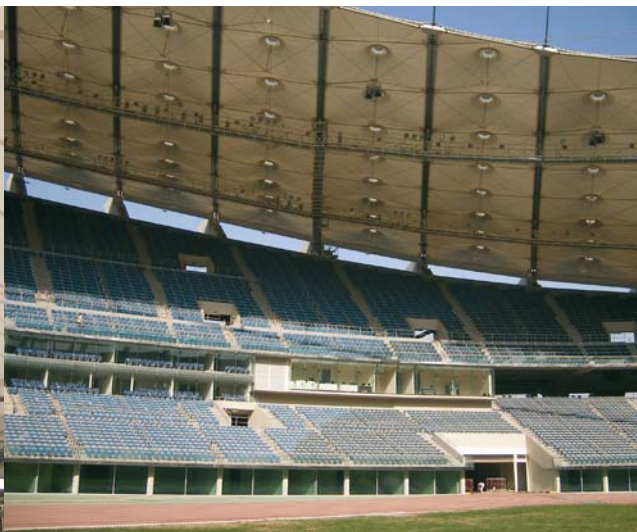
M16x1,5 for Ø5-10 mm cables.

3x2,5 mm² automatic isolating terminal, automatically interrupts supply on opening luminaire to provide extra safety.

Stainless steel external screws.

A range of accessories are available comprising; ground / ceiling mounting bracket, ground spike, pole mounting clamp, cable kit for through wiring, external cowl, internal baffle (narrow beam only), frosted glass and prismatic glass.

Use of colour lamps can create interesting dramatic effects.



94 81

CLASS I



Electronic ballast version

CLASS II



Magnetic ballast version

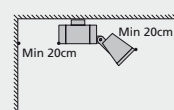
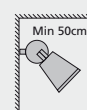
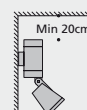
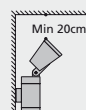
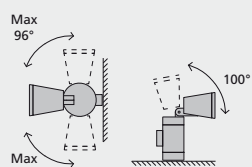
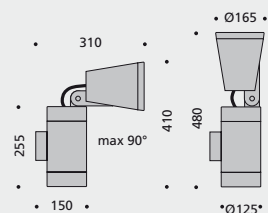
IP 66



IK 08 6J



KG
Max 5,5kg





Tyco 20 INT



Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G12	35W	MT		C INT	94	II	CR		•	05162794	
G12	70W	MT		C INT	94	II	CR		•	05162894	
G12	150W	MT		C INT	94	II	CR		•	05162994	
G12	35W	MT		C INT	94	I	ETRC		•	05168694	E I
G12	70W	MT		C INT	94	I	ETRC		•	05168794	E I
G12	35W	MT		C INT	81	II	CR		•	05163781	
G12	70W	MT		C INT	81	II	CR		•	05163881	
G12	150W	MT		C INT	81	II	CR		•	05163981	
G12	35W	MT		C INT	81	I	ETRC		•	05169281	E I
G12	70W	MT		C INT	81	I	ETRC		•	05169381	E I

Tyco 20 M



Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G12	35W	MT		C M	94	II	CR		•	05163094	
G12	70W	MT		C M	94	II	CR		•	05163194	
G12	150W	MT		C M	94	II	CR		•	05163294	
G12	35W	MT		C M	94	I	ETRC		•	05168894	E I
G12	70W	MT		C M	94	I	ETRC		•	05168994	E I
G12	35W	MT		C M	81	II	CR		•	05164081	
G12	70W	MT		C M	81	II	CR		•	05164181	
G12	150W	MT		C M	81	II	CR		•	05164281	
G12	35W	MT		C M	81	I	ETRC		•	05169481	E I
G12	70W	MT		C M	81	I	ETRC		•	05169581	E I

Tyco 20 W



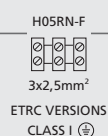
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G12	35W	MT		C W	94	II	CR		•	05163394	
G12	70W	MT		C W	94	II	CR		•	05163494	
G12	150W	MT		C W	94	II	CR		•	05163594	
G12	35W	MT		C W	94	I	ETRC		•	05169094	E I
G12	70W	MT		C W	94	I	ETRC		•	05169194	E I
G12	35W	MT		C W	81	II	CR		•	05164381	
G12	70W	MT		C W	81	II	CR		•	05164481	
G12	150W	MT		C W	81	II	CR		•	05164581	
G12	35W	MT		C W	81	I	ETRC		•	05169681	E I
G12	70W	MT		C W	81	I	ETRC		•	05169781	E I

E I Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

ACCESSORIES



Code	Denomination	Colour	Description
14064994	A0351	94	External aluminium cowl finished polyester aluminium grey.
14065081	A0351	81	External aluminium cowl finished polyester painted matt black.
14065112	A0352		Internal aluminium circular baffle, suitable for INT versions only.
14065220	A0353		Frosted glass.
14065320	A0354		Supplement for frosted glass.
14065420	A0355		Prismatic glass suitable for Tyco 20 70 W max only.
14065502	A0356		Ground/ceiling angle bracket.
14065602	A0357		Galvanised steel ground mounting spike.
14065894	A0359	94	Pole Ø60÷76 mm mounting clamp finished aluminium grey.
14065981	A0359	81	Pole Ø60÷76 mm mounting clamp finished black.
14066020	A0360		M16x1,5 anti-tearing cable gland kit.



ETRC VERSIONS
CLASS I



CR VERSIONS
CLASS II



TYCO 20

MT G12 Max 150W CDM-T/HCI-T

TYCO 21

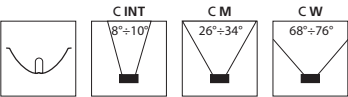
TYCO 21 - BOX TYCO 21
The main difference between TYCO 20 and TYCO 21 is the remote ballast housing which is supplied complete with cable in lengths of 3,5 m or 20 m options. The appropriate ballast housing should be ordered as a separate item in addition to TYCO21 luminaire.

SPECIFICATION:
The main difference between TYCO 20 and TYCO 21 is the remote ballast housing which is supplied complete with cable in lengths of 3,5m or 20m options. The appropriate ballast housing should be ordered as a separate item in addition to TYCO21 luminaire.
Body, frame and wiring / ballast housing in chromate pre-treated corrosion resistant die-cast aluminium finished polyester gris painted or matt black.
Impact resistant safety glass.
Anti-aging silicone gasket
Reflector in high purity aluminium anodized and polished, available as wide (W), medium (M) and narrow (INT) distribution.
Control gear available in remote box, with electronic gear (ETRC) 220-240 V, 50/60 Hz - Class I or conventional electromagnetic (CR) mains voltage - Class II.
M18x1,5 cable gland for Ø8-10 mm cables. Box TYCO 21 = M16x1,5 for Ø5-10 mm cables.
2x2,5 mm² automatic isolating terminal, automatically interrupts supply on opening luminaire to provide extra safety.
Stainless steel external screws.



Tyco 21

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	Cosp EEI = ≥ 0,9	Code	Notes
G12	35/70/150W	MT		C INT	94	II			01032794	NS
G12	35/70/150W	MT		C M	94	II			01032894	NS
G12	35/70/150W	MT		C W	94	II			01032994	NS
G12	35/70/150W	MT		C INT	81	II			01033081	NS
G12	35/70/150W	MT		C M	81	II			01033181	NS
G12	35/70/150W	MT		C W	81	II			01033281	NS



To combine with respective Box Tyco 21



Box Tyco 21/3,5m Complete with 3,5m of cable

W	Ilcos	Colour	Class	Wiring	Cosp ≥ 0,9	Code
35W	MT	94	II	CR	•	14057494
70W	MT	94	II	CR	•	14057594
150W	MT	94	II	CR	•	14057694
35W	MT	81	II	CR	•	14057981
70W	MT	81	II	CR	•	14058081
150W	MT	81	II	CR	•	14058181

Box Tyco 21/20m Complete with 20m of cable

W	Ilcos	Colour	Class	Wiring	Cosp ≥ 0,9	Code
35W	MT	94	II	CR	•	14066594
70W	MT	94	II	CR	•	14066694
150W	MT	94	II	CR	•	14066794
35W	MT	81	II	CR	•	14066881
70W	MT	81	II	CR	•	14066981
150W	MT	81	II	CR	•	14067081

94

81

CLASS II

IP 66

0,5m

TYCO 21
F

KG
Max 1,5kg

IK 08
6J

M18x 1,5
Ø8÷Ø10

H05RN-F
2x2,5mm²

Box TYCO 21
KG
Max 4 kg

Box TYCO 21
IK 09
10J

Box TYCO 21
M16x 1,5
Ø5÷Ø10

Box TYCO 21
H05RN-F
2x2,5mm²

Box TYCO 21
CE

• Ø165 •

90°

TYCO 21 Box

• 255 •

• 310 •

• Ø125 •

• 155 •

Min 5cm

Min 20cm

Min 5cm

Min 20cm

Min 5cm

100°

TYCO 21

MT

G12

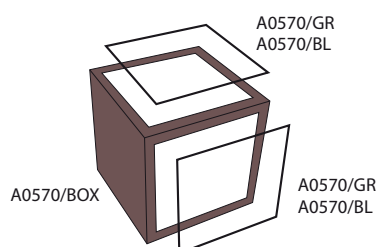
Max 150W

CDM-T/HCI-T

ACCESSORIES



Code	Denomination	Colour	Description
14064994	A0351	94	External aluminium cowl finished polyester aluminium grey.
14065081	A0351	81	External aluminium cowl finished polyester painted matt black.
14135396	A0351	96	External aluminium cowl finished polyester aluminium grey.
14065112	A0352		Internal aluminium circular baffle, suitable for INT versions only.
14065220	A0353		Frosted glass.
14065320	A0354		Supplement for frosted glass.
14065420	A0355		Prismatic glass suitable for Tyco 21 70 W max only.
14065602	A0357		Galvanised steel ground mounting spike.
14065702	A0358		Galvanised steel ground mounting spike.
14065894	A0359	94	Pole Ø60÷76 mm mounting clamp finished aluminium grey.
14065981	A0359	81	Pole Ø60÷76 mm mounting clamp finished black.
14066020	A0360		M16x1,5 anti-tearing cable gland kit.

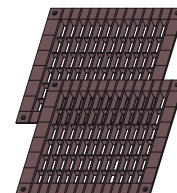
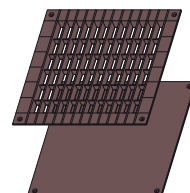


BOX

Code	Colour	Denomination	Description
14140175	75	A0570/BOX	BOX structure with 2 open sides.
14140275	75	A0570/BL	Blind plug for BOX structure.
14140375	75	A0570/GR	Grid for BOX structure.

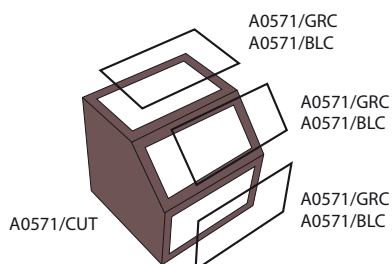
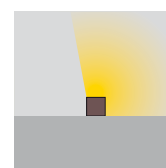
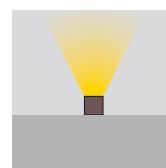
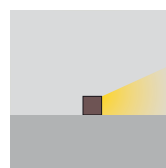
A0570/GR (14140375)

A0570/GR (14140375)



A0570/BL (14140275)

A0570/GR (14140375)



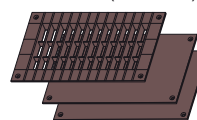
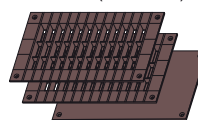
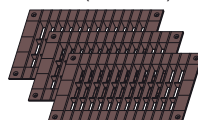
CUT

Code	Colour	Denomination	Description
14140475	75	A0571/CUT	BOX structure with 3 open sides.
14140575	75	A0571/BLC	Blind plug for BOX structure.
14140675	75	A0571/GRC	Grid for BOX structure.

A0571/GRC (14140675) x3

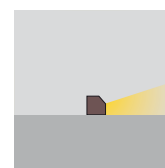
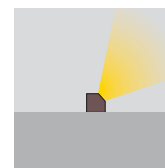
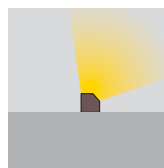
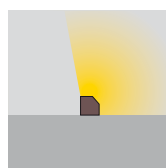
A0571/GRC (14140675) x2

A0571/GRC (14140675)

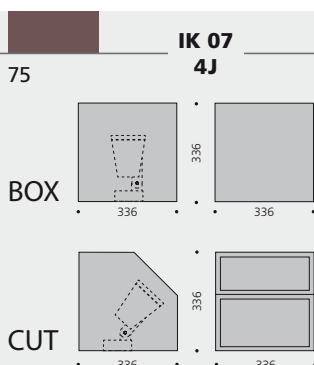


A0571/BLC (14140575)

A0571/BLC (14140575) x2



The examples show a few typical combinations, along with the relevant lists of necessary components.



The protective cage protects TYCO 21 against acts of vandalism or accidental knocks coming from any direction. Due to its rust-coloured finish and clean lines, the luminaire can be installed in a variety of urban contexts (parking lots, green areas, squares, monuments). Available in the BOX or CUT versions to allow for modulated light emission.



TYCO 22

SPECIFICATION:
TYCO 22 suitable for use with Halospot 111 low voltage halogen 35 W, 50 W and 75 W lamps (not supplied) comprising fixing base and adjustable spotlight supplied complete with transformer for 230-240 V, 50/60 Hz supply.
Body, frame and wiring / ballast housing in chromate pre-treated corrosion resistant die-cast aluminium finished polyester or matt black.
impact resistant safety glass.
Anti-aging silicone gasket
M18x1,5 cable gland for Ø8-10 mm cables.
2x2,5 mm² automatic isolating terminal, automatically interrupts supply on opening luminaire to provide extra safety.
Stainless steel external screws.



Tyco 22 / T With integral transformer

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL = Cosφ ≥ 0,9	Code	Notes
G53	75W	HMGS			94	II	T		• 04018994	T
G53	75W	HMGS			81	II	T		• 04019081	T

T TYCO 22 suitable for use with Halospot 111 low voltage halogen 35 W, 50 W and 75 W lamps (not supplied) comprising fixing base and adjustable spotlight supplied complete with transformer for 230-240 V, 50/60 Hz supply. TYCO 22 luminaires are designed for highlighting and accent / feature lighting offering high uniformity and flexibility for use with Halospot 3000 K color temperature lamps with beam options of 4°, 24° and 45° light distribution.

ACCESSORIES



Code	Denomination	Colour	Description
14064994	A0351	94	External aluminium cowl finished polyester aluminium grey.
14065081	A0351	81	External aluminium cowl finished polyester painted matt black.
14135396	A0351	96	External aluminium cowl finished polyester aluminium grey.
14065112	A0352		Internal aluminium circular baffle, suitable for INT versions only.
14065220	A0353		Frosted glass.
14065320	A0354		Supplement for frosted glass.

9481

CLASS II

IP 66

0,5m

KG
Max 3,3kg

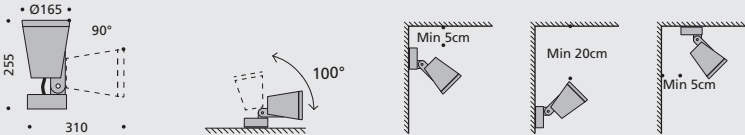
IK 08
6J

F

M18x 1,5
Ø8÷Ø10

H05RN-F
2x2,5mm²

CE



TYCO 22
HMGS G53 35-50-75W HALOSPOT 111 ALULINE PRO

TYCO 23

SPECIFICATIONS

Luminaire head, glass cover frame, and base manufactured from die-cast aluminium sandblasted and phosphor-chromate pre-treatment, finished painted; anthracite-grey, silver-grey, or black.
Cylindrical control gear body manufactured from extruded aluminium, with robust fixing base in zinc coated steel, finished painted; anthracite-grey, silver-grey, or black.
5mm impact resistant safety glass.
High purity aluminium reflector anodised and polished.
Ceramic G12 lampholder with high temperature resistant cables.
Wiring box in fibreglass reinforced technopolymer.
M16x1,5 tear resistant IP68 cable gland suitable for Ø5-10 mm type H05RN-F.
Anti-ageing single piece (no joints) silicone gasket.
Stainless steel external screws.
CLASS I luminaires, supply 220-240 V, 50/60 Hz for 35 W and 70 W luminaires, electronic control gear.
CLASS II luminaires, supply 230 V 50/60 Hz for 35 W, 70 W and 150 W luminaires, conventional magnetic control gear versions, other voltages available on request.



Tyco 23/6 INT

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL	Code	Notes
G12	35W	MT		C INT	94	I	ETRC	•	05297894	
G12	70W	MT		C INT	94	I	ETRC	•	05298194	
G12	35W	MT		C INT	96	I	ETRC	•	05297996	
G12	70W	MT		C INT	96	I	ETRC	•	05298296	
G12	35W	MT		C INT	81	I	ETRC	•	05297781	
G12	70W	MT		C INT	81	I	ETRC	•	05298081	

Tyco 23/6 M

G12	35W	MT		C M	94	I	ETRC	•	05299394	
G12	70W	MT		C M	94	I	ETRC	•	05299694	
G12	35W	MT		C M	96	I	ETRC	•	05299496	
G12	70W	MT		C M	96	I	ETRC	•	05299796	
G12	35W	MT		C M	81	I	ETRC	•	05299281	
G12	70W	MT		C M	81	I	ETRC	•	05299581	

Tyco 23/6 W

G12	35W	MT		C W	94	I	ETRC	•	05300894	
G12	70W	MT		C W	94	I	ETRC	•	05301194	
G12	35W	MT		C W	96	I	ETRC	•	05300996	
G12	70W	MT		C W	96	I	ETRC	•	05301296	
G12	35W	MT		C W	81	I	ETRC	•	05300781	
G12	70W	MT		C W	81	I	ETRC	•	05301081	

Tyco 23/9 INT

G12	35W	MT		C INT	94	I	ETRC	•	05302394	
G12	70W	MT		C INT	94	I	ETRC	•	05302694	
G12	35W	MT		C INT	96	I	ETRC	•	05302496	
G12	70W	MT		C INT	96	I	ETRC	•	05302796	
G12	35W	MT		C INT	81	I	ETRC	•	05302281	
G12	70W	MT		C INT	81	I	ETRC	•	05302581	

Tyco 23/9 M

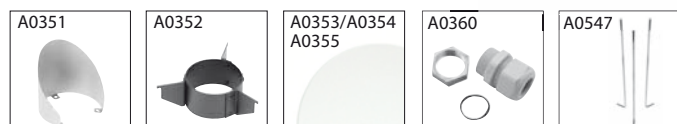
G12	35W	MT		C M	94	I	ETRC	•	05303894	
G12	70W	MT		C M	94	I	ETRC	•	05304194	
G12	35W	MT		C M	96	I	ETRC	•	05303996	
G12	70W	MT		C M	96	I	ETRC	•	05304296	
G12	35W	MT		C M	81	I	ETRC	•	05303781	
G12	70W	MT		C M	81	I	ETRC	•	05304081	

Tyco 23/9 W

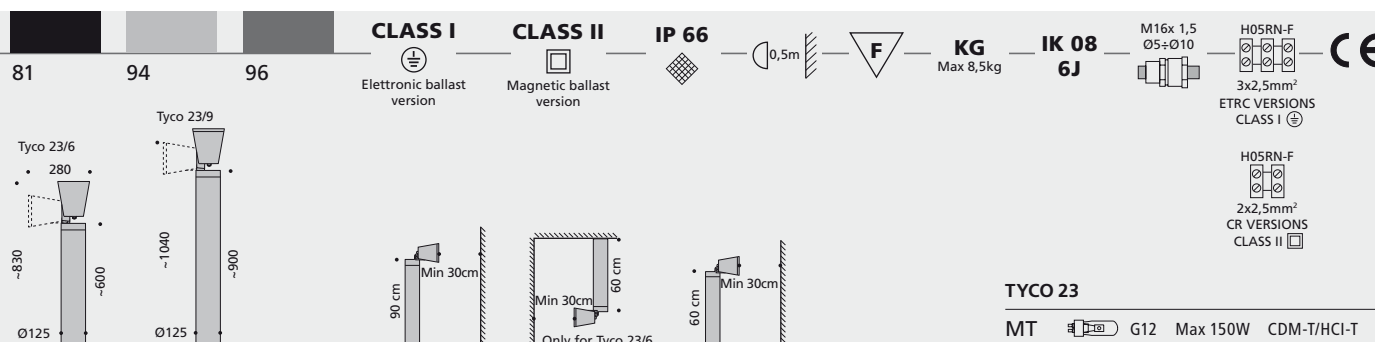
G12	35W	MT		C W	94	I	ETRC	•	05305394	
G12	70W	MT		C W	94	I	ETRC	•	05305694	
G12	35W	MT		C W	96	I	ETRC	•	05305496	
G12	70W	MT		C W	96	I	ETRC	•	05305796	
G12	35W	MT		C W	81	I	ETRC	•	05305281	
G12	70W	MT		C W	81	I	ETRC	•	05305581	

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

ACCESSORIES



Code	Denomination	Colour	Description
14064994	A0351	94	External aluminium cowl finished polyester aluminium grey.
14065081	A0351	81	External aluminium cowl finished polyester painted matt black.
14135396	A0351	96	External aluminium cowl finished polyester aluminium grey.
14065112	A0352		Internal aluminium circular baffle, suitable for INT versions only.
14065220	A0353		Frosted glass.
14065320	A0354		Supplement for frosted glass.
14065420	A0355		Prismatic glass suitable for Tyco 20-21 70W max only.
14066020	A0360		M16x1,5 anti-tearing cable gland kit.
14135220	A0547		Zinc-coated steel spikes to brick up in plinth of cement for the base fixing.



TYCO 23

MT G12 Max 150W CDM-T/HCI-T

UWF

design Silvia Paola Pennacchio

UWF (Under Water Luminaires) are a range of floodlights for underwater use suitable to light or make light and dramatic effects in fountains, swimming-pools, water jets and games. The bronze models are also suitable for use in sea water, while the tecnopolymer models can be installed in fresh water only.

They are available in two sizes:

UWF10 (max 100W)

UWF22 (max 300W).





UWF 10

UWF 10 small Under Water Floodlights for use with 12V extra low voltage lamps suitable for fresh water installation only between 0,2m to 5m depths. They are designed for surface mounting submersible applications, but may also be installed above ground using 20W lamps (max). UWF 10 luminaires are ideal for small fountains and water displays (no LED).

SPECIFICATION:
Body and frame in black technopolymer. Impact resistant safety glass.
AISI 304 stainless steel bracket and nickel plated brass screws with PG 11 cable gland for Ø6-10mm cables.
IP68 guaranteed only by using H07RN8-F 2 x 1,5 toughened rubber cable, available as accessory A0235.



UWF 10 LED + H07RN8-F

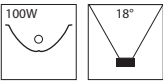
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes
GU5,3	4,5W		3000	C	80	III				07042280	

- ! For 12 V AC lamp supply.
- 🔧 Luminaire supplied complete with 4 meters of H07RN-F 2x1.5 mm² cable.



UWF 10 + H07RN8-F

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes
GU5,3	max 50W/12V	HRGS			80	III				01958018	! 🧰
GY6,35	max 100W/12V	HSGS		C	80	III				01959018	! 🧰

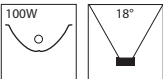


- ! For 12 V AC lamp supply.
- 🔧 Luminaire supplied complete with 4 meters of H07RN-F 2x1.5 mm² cable.



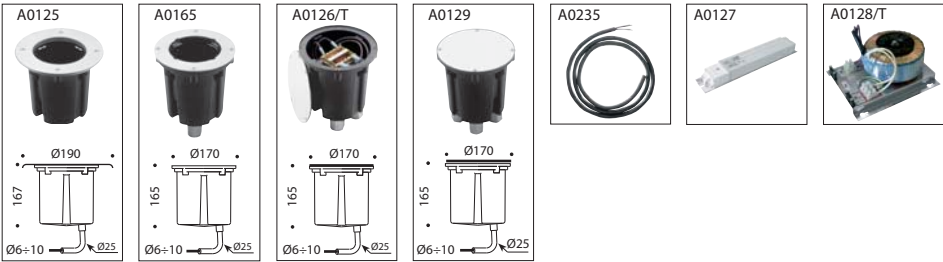
UWF 10

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes
GU5,3	max 50W/12V	HRGS			80	III				01961018	! ■
GY6,35	max 100W/12V	HSGS		C	80	III				01962018	! ■

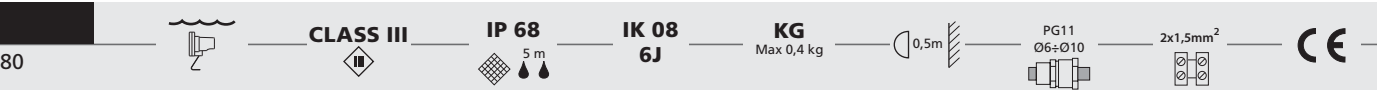


- ! For 12 V AC lamp supply.
- Minimum order 12 pcs. or multiple quantities thereof.

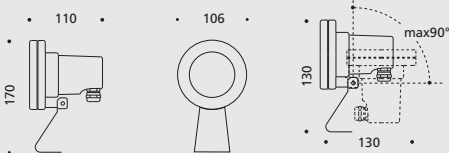
ACCESSORIES



Code	Denomination	Description
14421018	A0125	Floor / wall recessing accessory for UWF 10 luminaire.
14002289	A0165	Accessory for recessed installations into plastic sheet wall.
14096120	A0126/T	CLASS II IP67 box complete with 1x100VA 220-240/12V transformer for ground and concrete recessed installation (non submersible above ground use only).
14422018	A0129	CLASS II IP67 wiring box for ground and wall recessed installation (non submersible above ground use only).
14018320	A0235	H07RN8-F 2x1,5 mm² rubber cable supplied and sold in 1 meter units.
14423998	A0127	1x100VA 220-240/12 V safety transformer. Not suitable for installing within A0126 accessory.
14094920	A0128/T	1x350VA 240/12 V safety transformer. Not suitable for installing within A0126 accessory.



UWF 10



UWF 10

LED	🔌	GU5,3	4,5W
HRGS	🔌	GU5,3	Max 50W DICR
HSGS	🔌	Gy6,35	Max 100W HALO 12V

UWF 22

UWF 22 high power Under Water Floodlights designed for permanent submersible installation between 0.3m and 5m depths. UWF 22 luminaires are ideal for swimming pools, water parks, fountains and large water displays. The luminaire is complete with a PAR 56 WFL 12/300W lamp and is available in bronze or technopolymer construction, cable is optional either supplied without or complete with 4 meters of H07RN8-F 2x4 mm² cable. Bronze (BR) version complete with cast bronze ring provides a mechanically robust engineered product with aesthetic quality suitable for the most prestigious installations; marina's, coastal areas and fountains where a high corrosion resistance is needed. Technopolymer (PPH) version manufactured in a heat resistant UV stabilized reinforced PPH suitable for use in fresh water installations only. UWF 22/PPH luminaires are particularly suitable for fountains, water displays and fresh water ponds with a wall recessed version UWF 22/PPH Recessed which is ideal for swimming pools.

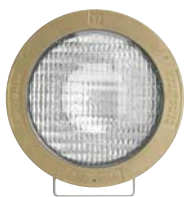
SPECIFICATION:

Body and frame in bronze alloy (UWF22/BR) or technopolymer (UWF22/PPH) available in black or white colour (UWF 22/PPH Recessed version white only).

Anti-tearing IP68 nickel plated brass cable gland

Stainless steel bracket

Stainless steel external screws



UWF 22/BR Suitable for sea water installations

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
screws	300	PAR 56			40	III				• 01979998	! ¹ ! ² Q
screws	300	PAR 56			40	III				• 01941998	! ¹ ! ² Q



!¹ For 12V AC lamp supply.

!² Bronze (BR) version is not suitable for recessing into walls or floors.

🔧 Supplied complete with 4m of H07RN8-F 2x4 mm² cable.

💡 Luminaires supplied complete with lamp.



UWF 22/PPH Suitable for installation in fresh water only

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
screws	300	PAR 56			80	III				• 01980998	! ¹ Q
screws	300	PAR 56			80	III				• 01981998	! ¹ Q
screws	300	PAR 56			85	III				• 01003102	! ¹ Q
screws	300	PAR 56			85	III				• 01003202	! ¹ Q



!¹ For 12V AC lamp supply.

🔧 Supplied complete with 4m of H07RN8-F 2x4 mm² cable.

💡 Luminaires supplied complete with lamp.



UWF 22/PPH-Recessed Suitable for installation in fresh water only

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
screws	300	PAR 56			85	III				• 03003585	! ¹ ! ² Q

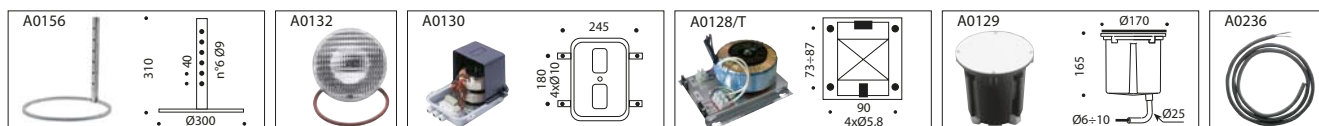


!¹ For 12V AC lamp supply.

💡 Luminaires supplied complete with lamp.

🔧 UWF 22/PPH Recessed is made of the UWF 22/PPH fixture, 4 mt of H07RN8 -F 2x4 mm² cable and a tecnopolymer box for wall recessed installation.

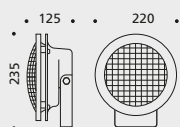
ACCESSORIES



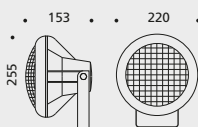
Code	Denomination	Description
14000799	A0156	AISI 304 stainless steel support bracket, to mount UWF 22 luminaires at different heights.
14417998	A0132/BR	Seal and lamp set. Replacement lamp and seal during re-lamping.
14451998	A0133/PPH	Seal and lamp set. Replacement lamp and seal during re-lamping.
14410998	A0130/T1	CLASS I IP65 box complete with one 330VA 220-240V/12 V transformer for one UWF 22 luminaires.
14411998	A0130/T2	CLASS I IP65 box complete with two 330VA 220-240V/12 V transformers for two UWF 22 luminaires.
14412998	A0130/T3	CLASS I IP65 box complete with three 330VA 220-240V/12 V transformers for three UWF 22 luminaires.
14094920	A0128/T	1 x 350VA 240/12 V safety transformer.
14422018	A0129	CLASS II IP67 wiring box for ground and wall recessed installation (non submersible above ground use only).
14018420	A0236	H07RN8-F 2x4 mm ² rubber cable supplied and sold in 1 meter units.



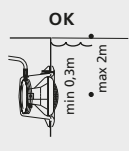
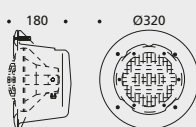
UWF 22/BR



UWF 22/PPH



UWF 22/PPH-R

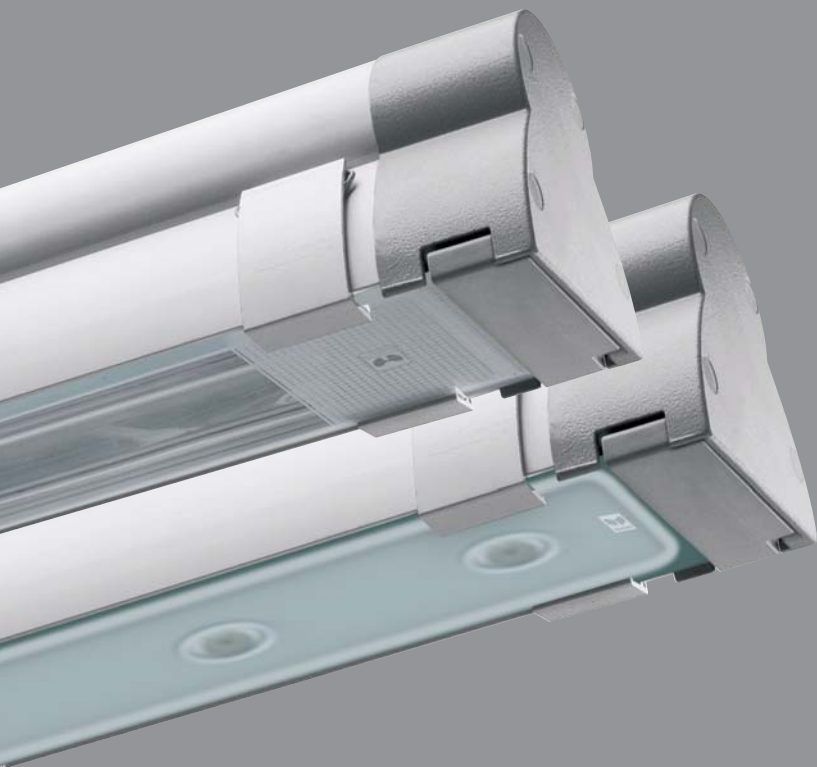


UWF 22

HDG SCREW 300W PAR56/WFL

ISTHAR

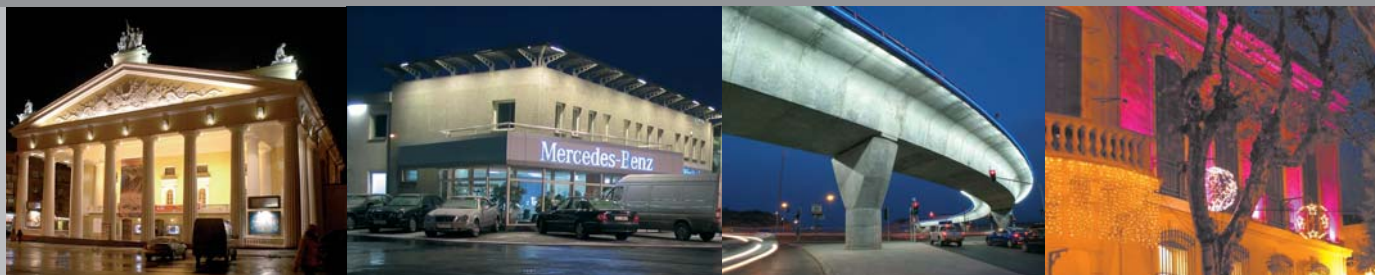
design Silvia Paola Pennacchio



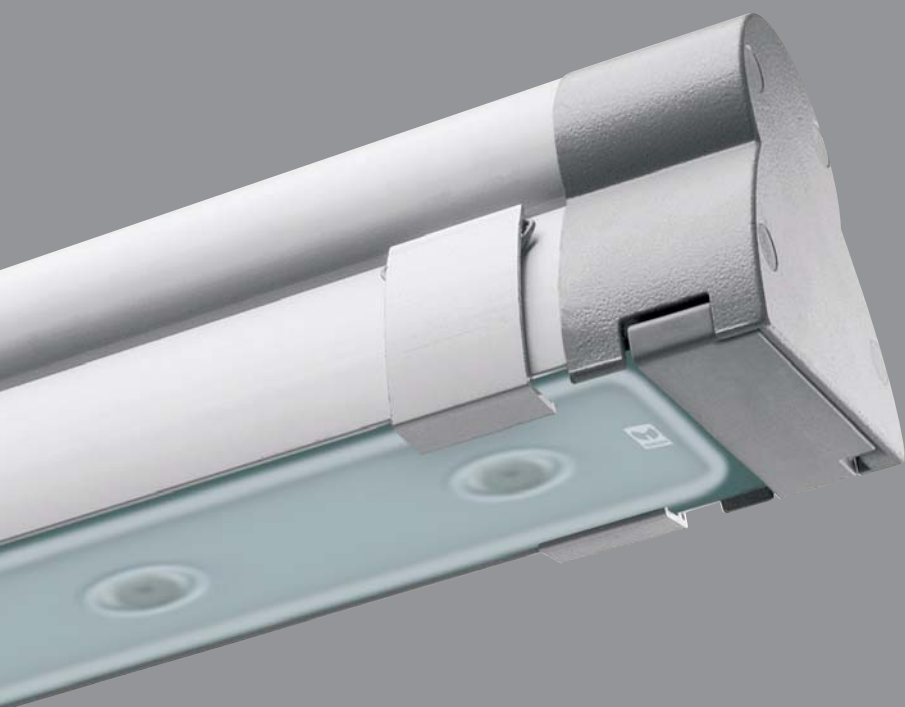
ISTHAR is a range of high performance slimline IP66 extruded aluminium luminaires suitable for use with the following lamp options:

- T5 fluorescent FH 14-35W (HE) and FQ 24-80W (HO)
- Compact fluorescent DULUX-DE 26W and DULUX-L/PL-L 55-80W
- LED
- LED RGB color changing

ISTHAR are manufactured from high quality corrosion resistant materials and are suitable for both indoor and outdoor applications. Their slim contemporary design makes them ideal for a variety of applications from general area lighting to highlighting and architectural feature / facade lighting.

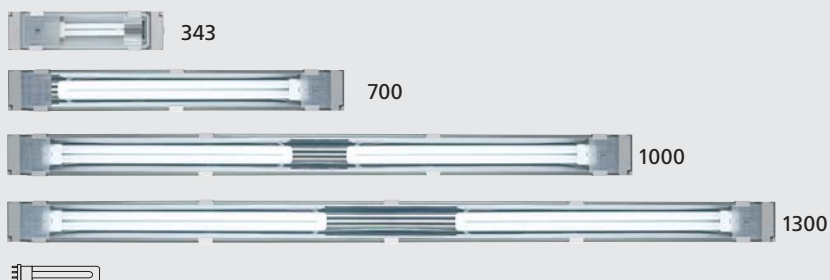






SPECIFICATION:

Pair of die-cast aluminium mounting brackets finished polyester painted provides adjustment for luminaire $\pm 12^\circ$.
 Body in extruded anodized aluminium with chromate pre-treated die-cast ends finished polyester painted. Ends fitted to body by stainless steel fixings and silicone seaLED joints.
 Tempered safety glass, hinged to body by two technopolymer brackets for safe easy maintenance. Anti-ageing silicone rubber gasket.
 Faceted double parabolic reflector in 99.85% pure aluminium anodized and polished.
 Two stainless steel cable glands for $\varnothing 8-10,5$ mm cables.
 IP66 breather mounted in one end.
 Cover fixing clips in anodized aluminium with stainless steel spring.
 Stainless steel external screws.
 ISTHAR/C versions are complete with internal cable for through wiring connection.
 Electronic ballast class A2 energy efficient 220-240 V, 50/60 Hz
 T5 versions with self adjustable lamp positions for medium or wide beam distribution
 LED-HP high power versions are supplied complete with LED driver, internal cable and terminal blocks for through wiring connection.
 LED-RGB color changing requires an appropriate RGB supply and control unit supplied as accessories be ordered as a separate items in addition to the luminaire.
 Special versions; voltages, 850° glow wire resistance etc. available on request.



ISTHAR are designed to provide high performance functional lighting with contemporary aesthetics to enhance the aspect of any building through dramatic highlighting and façade lighting. Their high efficiency makes them suitable for general area commercial lighting, retail lighting, modern and historical interiors, museums, exhibitions and signage lighting etc.

ISTHAR features:

- Compact slim design.
- High quality corrosion resistant materials and finishing.
- High performance photometrics.
- High efficiency long life T5 fluorescent lamps, LED & RGB color changing.
- Low surface temperature body T6 classification.
- Constructed of 96% non-flammable materials.
- Adaptable and flexible usage.
- Longevity and low maintenance.
- Easy and quick installation with a range of mounting accessories.

T5 fluorescent lamp versions:

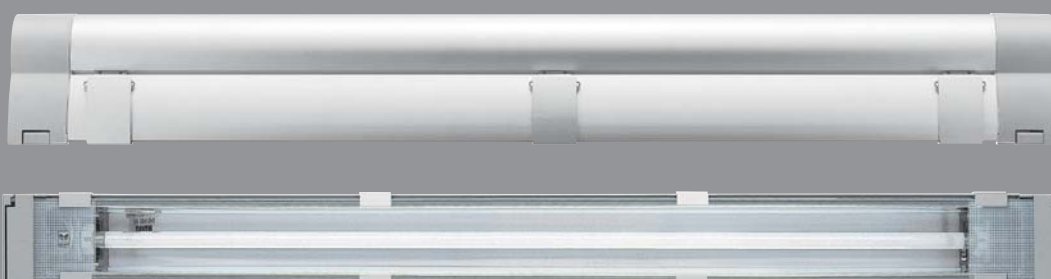
Self adjustable lamp positions for medium or wide beam distribution.

ISTHAR with T5 FQ / HO lamps are suitable for an operating ambient of 0° to +50°C, special versions operating down to -20°C are available on request.

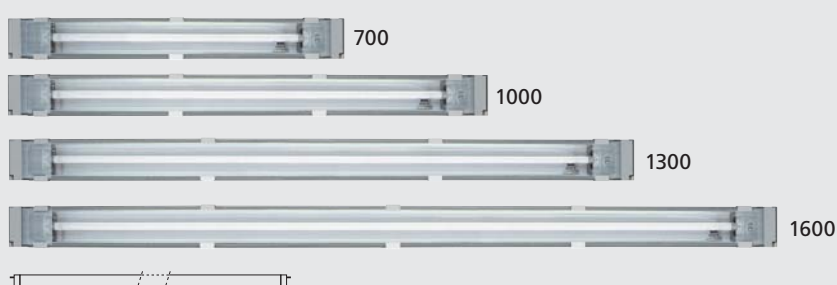
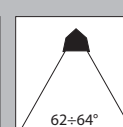
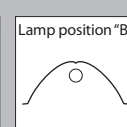
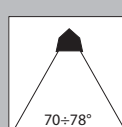
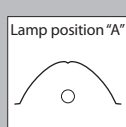
ISTHAR with T5 FH / HE lamps are suitable for an operating ambient of -20° to +50°C. Operating at lower ambient temperatures may affect lamp lumen output (for further information please contact our technical department).

Compact fluorescent lamp versions:

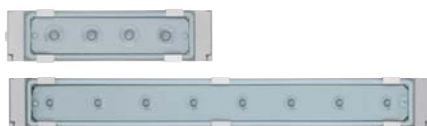
Ideal for applications requiring a compact design luminaire with high light outputs. E.g. DULUX/ DE 26 W compact fluorescent in 343 mm ISTHAR body ideal for mounting in discreet locations on columns, arches and alcoves etc.



Adjustable lamp position for wide beam (Pos. A) and medium factory set Pos.B.



ISTHAR LED



ISTHAR LED/HP

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
n°4 led 700mA DC	12,8W		6.000°	C 6°	11	I	ETRC			06013011	
n°8 led 350mA DC	11,2W		6.000°	C 15°	11	I	ETRC			06013211	

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

ISTHAR/LED - HP Class I luminaire complete with integral electronic transformer and LED driver for 220-240V, 50/60Hz mains supply. Supplied with internal cable 3x1.5mm² and terminal blocks 3x2.5mm² for through wiring connection up to a maximum of 35 luminaires over a maximum recommended distance of 100m.

This version is supplied with a single mounting bracket, as opposed to standard two mounting brackets, and appropriate quantities should be considered when ordering accessories; A0277, A0264, A0263/100-300.



ISTHAR LED/HP-RGB

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
n.5 led RGB 350mA DC	16,5 W			C 45°	11	III				06013411	

ISTHAR/LED - HP are supplied complete with five color changing RGB multi-chip LED's (5 x 3.6W - 45°). Luminaires require an RGB supply and control unit (MASTER) for operation. Connections between MASTER unit and luminaires should be made using the appropriate cable supplied as accessory A0380. The RGB system provides the choice of three color changing programs: All color rainbow (70 sec. cycle), warm colors (50 sec. cycle) and cold colors (50 sec. cycle). Single color fixed options are also possible.

MASTER unit (A0378) comprising driver and color change device, to be ordered together with luminaires, which should be installed in a suitable enclosed location at a maximum distance of 80m from the luminaires.

- Operating 1 luminaire: one MASTER unit A0378
- Operating 2 luminaires: one MASTER unit A0378 + one SLAVE unit A0379.
- Operating 3 up to a max 100 luminaires: one MASTER unit A0378 + A0379 "qty" SLAVE units + A0220/40 "qty" transformer
Driver. A0379 "qty" = (total no. luminaires - 1)

Transformer A0220/40 "qty" = ((rounding up total no. luminaires to nearest multiple 2 ÷ 2) - 1).

Diagram for 1 luminaire.



Diagram for 2 luminaire.

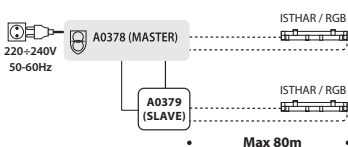
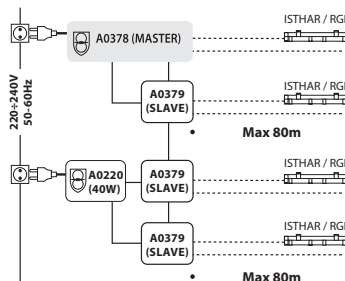
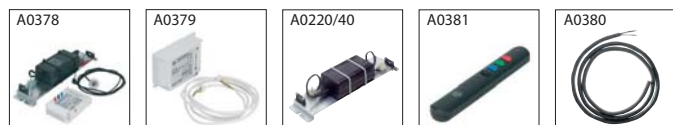


Diagram for 3-100 (max) luminaires.



ACCESSORIES for operation and control of ISTHAR LED / RGB luminaires.



Code	Denomination	Description
14071920	A0378	Driver and control unit including 40W transformer. 220-240V, 50/60Hz AC 24V CC. complete with MASTER color changing unit (suitable to operate one ISTHAR/LED - HP/RGB).
14072020	A0379	A0379 Additional (SLAVE) color changing unit (suitable to operate one Isthar/LED - HP/RGB). SLAVE units are controlled via MASTER unit.
14015520	A0220/40W	Electronic 40W transformer / LED driver; 220-240V, 50/60Hz AC supply - output max 24V CC stabilized supply, mounted on a galvanised steel support.
14072220	A0381	Infrared remote control for color changing MASTER unit.
14072120	A0380	S05RN-F 3 x 1mm ² x RGB cable sold and supplied in 1 meter units.

11	CLASS I	CLASS III	IP 66	IK 07	F	KG	0,5m	M18x1,5 Ø8÷Ø10,5	H07RN-F 3G1,5	S05RN-F 3X1
										
	HP	HP - RGB							3x2,5mm ²	3x2,5mm ²
									HP	HP/RGB



L mm	LED	LED RGB
343	4x3,2W	
700	8x1,4W	5x3,6W

ISTHAR/LED

LED		N°4-12,8W
LED		N°8-11,2W

ISTHAR



ISTHAR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
G5	14W	FDH		S	11	II	ETRC	A2	•	05097311		•
G5	21W	FDH		S	11	II	ETRC	A2	•	05097411		•
G5	28W	FDH		S	11	II	ETRC	A2	•	05097511		•
G5	35W	FDH		S	11	II	ETRC	A2	•	05097611		•
G5	24W	FDH		S	11	II	ETRC	A2	•	05097711		•
G5	39W	FDH		S	11	II	ETRC	A2	•	05097811		•
G5	49W	FDH		S	11	II	ETRC	A2	•	05098011		•
G5	54W	FDH		S	11	II	ETRC	A2	•	05097911		•
G5	80W	FDH		S	11	II	ETRC	A2	•	05098111		•



ISTHAR/C

G5	14W	FDH		S	11	II	ETRC	A2	•	05107311		•
G5	21W	FDH		S	11	II	ETRC	A2	•	05107411		•
G5	28W	FDH		S	11	II	ETRC	A2	•	05107511		•
G5	35W	FDH		S	11	II	ETRC	A2	•	05107611		•
G5	24W	FDH		S	11	II	ETRC	A2	•	05107711		•
G5	39W	FDH		S	11	II	ETRC	A2	•	05107811		•
G5	49W	FDH		S	11	II	ETRC	A2	•	05107911		•
G5	54W	FDH		S	11	II	ETRC	A2	•	05108011		•
G5	80W	FDH		S	11	II	ETRC	A2	•	05108111		•



ISTHAR

2G11	1x55W	FSDH		S	11	II	ETRC	A2	•	05126911		•
2G11	2x55W	FSDH		S	11	II	ETRC	A2	•	05127011		•
2G11	2x80W	FSDH		S	11	II	ETRC	A2	•	05127111		•

ISTHAR/C

2G11	1x55W	FSDH		S	11	II	ETRC	A2	•	05127211		•
2G11	2x55W	FSDH		S	11	II	ETRC	A2	•	05127311		•
2G11	2x80W	FSDH		S	11	II	ETRC	A2	•	05127411		•



ISTHAR/343

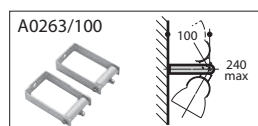
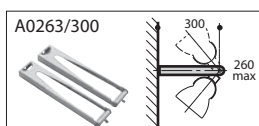
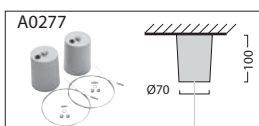
GX24q-3	26W	FSQ		S	11	I	ETRC	A2		05212811		⊕ !
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Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

! This version is supplied with a single mounting bracket, as opposed to standard two mounting brackets, and appropriate quantities should be considered when ordering accessories; A0265, A0277, A0264, A0263/100 and A0263/300.



ACCESSORIES for all ISTHAR models.



Code	Denomination	Description
14032420	A0265	Pair 2m wire suspension cables, suitable for indoor installation only.
14041320	A0277	Pair 2m wire suspension cables with ceiling roses finished, for indoor installation only.
14041220	A0264	Pair of stainless steel wall brackets.
14032294	A0263/100	Pair of sheet steel 100mm adjustable brackets finished, suitable for wall or ceiling installation.
14032394	A0263/300	Pair of sheet steel 300mm adjustable brackets finished, suitable for wall or ceiling installation.
14031820	A0262 / 14-24W	Frosted glass optional replacement for standard clear glass to be ordered together with luminaire for factory fitted option.
14031920	A0262 / 21-39W	Frosted glass optional replacement for standard clear glass to be ordered together with luminaire for factory fitted option.
14032020	A0262 / 28-54W	Frosted glass optional replacement for standard clear glass to be ordered together with luminaire for factory fitted option.
14032120	A0262 / 35-49-80W	Frosted glass optional replacement for standard clear glass to be ordered together with luminaire for factory fitted option.

11	CLASS II	CLASS I	IP 66	IK 07 3J	F	KG Max 4,9 kg	0,5m	M18x1,5 Ø8÷Ø10,5	H05RN-F 2x1 H07RN-F 3G1,5 2x2,5mm²
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ISTHAR/C versions are complete with internal cable 2x1,5mm² for through wiring connection. See table opposite for maximum quantities of luminaires (n°) for through wiring connection and recommended maximum distance (D max).

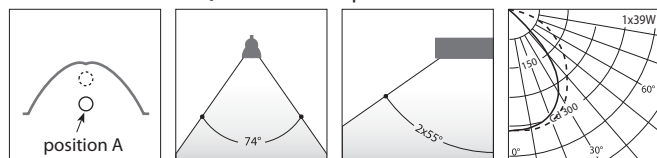
Watt	14	21	28	35	24	39	49	54	80	55	2x55	2x80
N°	80	62	50	40	70	45	35	32	22	30	15	11
Dmax (m)	75	75	75	72	63	56	63	53	45	45	40	38

L mm	HE	HO	FSD	FSQ
343				26W
700	14W	24W	1x55W	
1000	21W	39W		
1300	28W	54W	2x55W	
1600	35W	49-80W	2x80W	

ISTHAR

FDH		G5	14÷35W	LUMILUX FH/MASTER TL5 HE
FDH		G5	24÷80W	LUMILUX FQ/MASTER TL5 HO
FSDH		2G11	Max 80W	DULUX-L/PL-L
FSQ		Gx24q-3	26W	DULUX D-E/PL-C-AP

ISTHAR 139 - 39W FQ - Position lamp "A"



cod. C.I.E.: 64-92-99-100-66 UTE C71-121: 0,65 C + 0,00 T BZ: 3 REND. 65.6%

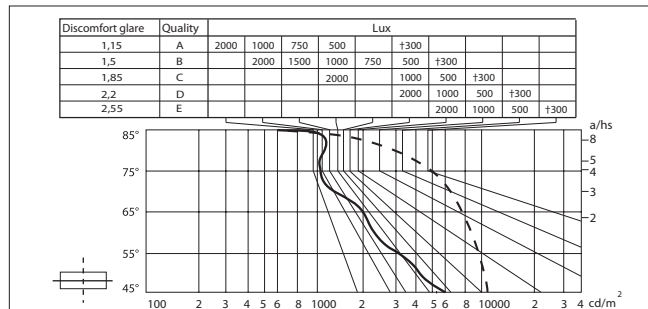
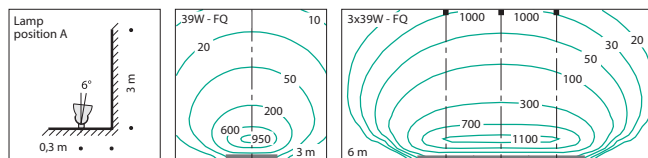
	A	80	70	70	70	70	50	50	50	30	30	30	0
B	70	70	50	30	10	50	30	10	10	50	30	10	0
C	10	10	10	10	10	10	10	10	10	10	10	10	0
K	0,60	0,43	0,42	0,36	0,32	0,29	0,35	0,31	0,29	0,35	0,31	0,29	0,28
	0,80	0,49	0,48	0,42	0,38	0,35	0,41	0,37	0,35	0,40	0,37	0,34	0,33
	1,00	0,53	0,52	0,47	0,43	0,40	0,46	0,42	0,40	0,45	0,42	0,39	0,38
	1,25	0,56	0,55	0,51	0,47	0,45	0,50	0,47	0,44	0,49	0,46	0,44	0,43
	1,50	0,59	0,58	0,54	0,51	0,48	0,53	0,50	0,48	0,52	0,49	0,47	0,46
	2,00	0,62	0,61	0,58	0,55	0,53	0,57	0,55	0,53	0,56	0,54	0,52	0,51
	2,50	0,64	0,63	0,61	0,58	0,57	0,59	0,58	0,56	0,58	0,57	0,55	0,54
	3,00	0,65	0,65	0,62	0,61	0,59	0,61	0,60	0,58	0,60	0,59	0,57	0,56
K	4,00	0,67	0,66	0,64	0,63	0,62	0,63	0,62	0,61	0,62	0,61	0,60	0,58
	5,00	0,68	0,67	0,65	0,64	0,63	0,64	0,63	0,62	0,63	0,62	0,61	0,59

A: Ceiling

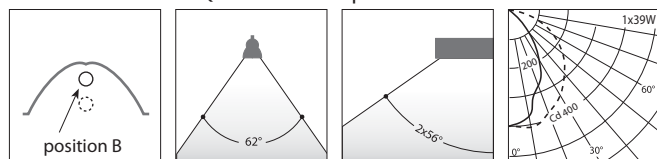
B: Wall

C: Floor

K: Room index



ISTHAR 139 - 39W FQ - Position lamp "B"



cod. C.I.E.: 66-92-99-100-67 UTE C71-121: 0,67 C + 0,00 T BZ: 2 REND. 67.2%

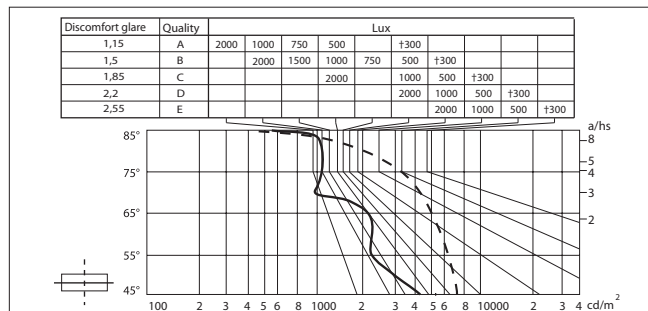
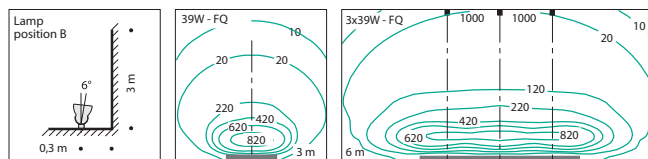
	A	80	70	70	70	70	50	50	50	30	30	30	0
B	70	70	50	30	10	50	30	10	10	50	30	10	0
C	10	10	10	10	10	10	10	10	10	10	10	10	0
K	0,60	0,45	0,44	0,38	0,34	0,31	0,37	0,34	0,31	0,37	0,33	0,31	0,30
	0,80	0,50	0,50	0,44	0,40	0,37	0,43	0,39	0,37	0,42	0,39	0,36	0,35
	1,00	0,55	0,54	0,48	0,45	0,42	0,48	0,44	0,42	0,47	0,44	0,41	0,40
	1,25	0,58	0,57	0,53	0,49	0,46	0,52	0,49	0,46	0,51	0,48	0,46	0,44
	1,50	0,61	0,60	0,56	0,52	0,50	0,54	0,52	0,49	0,53	0,51	0,49	0,48
	2,00	0,64	0,63	0,60	0,57	0,55	0,59	0,56	0,54	0,57	0,56	0,54	0,52
	2,50	0,66	0,65	0,62	0,60	0,58	0,61	0,59	0,58	0,60	0,58	0,57	0,55
	3,00	0,67	0,66	0,64	0,62	0,61	0,63	0,61	0,60	0,62	0,60	0,59	0,58
K	4,00	0,69	0,68	0,66	0,65	0,63	0,65	0,64	0,62	0,63	0,62	0,60	0,60
	5,00	0,69	0,69	0,67	0,66	0,65	0,66	0,65	0,64	0,65	0,64	0,63	0,61

A: Ceiling

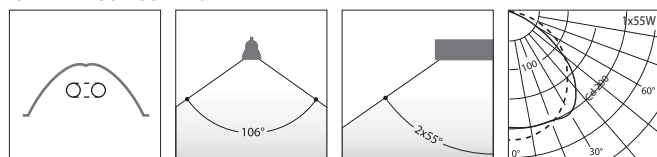
B: Wall

C: Floor

K: Room index



ISTHAR 155 - 55W FSD



cod. C.I.E.: 52-86-98-99-58 UTE C71-121: 0,58 D + 0,00 T BZ: 4 REND. 57.7%

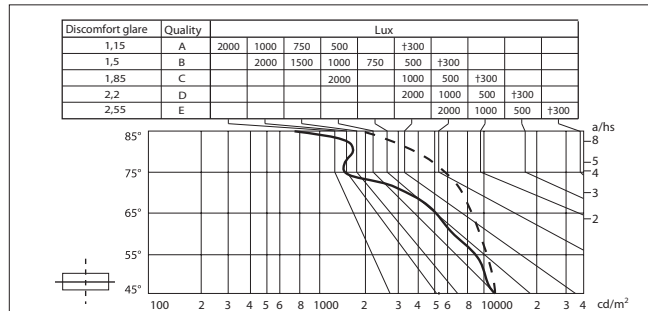
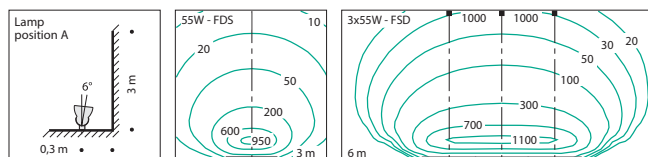
	A	80	70	70	70	70	50	50	50	30	30	30	0
B	70	70	50	30	10	50	30	10	10	50	30	10	0
C	10	10	10	10	10	10	10	10	10	10	10	10	0
K	0,60	0,34	0,33	0,27	0,23	0,20	0,26	0,22	0,20	0,26	0,22	0,20	0,19
	0,80	0,39	0,39	0,33	0,29	0,25	0,32	0,28	0,25	0,31	0,28	0,25	0,24
	1,00	0,43	0,43	0,37	0,33	0,30	0,36	0,33	0,30	0,35	0,32	0,30	0,28
	1,25	0,47	0,46	0,41	0,38	0,35	0,40	0,37	0,34	0,39	0,36	0,35	0,33
	1,50	0,49	0,48	0,44	0,41	0,38	0,43	0,40	0,38	0,42	0,39	0,37	0,36
	2,00	0,53	0,52	0,49	0,46	0,43	0,47	0,45	0,43	0,46	0,44	0,42	0,41
	2,50	0,55	0,54	0,51	0,49	0,47	0,50	0,48	0,46	0,49	0,47	0,45	0,44
	3,00	0,56	0,55	0,53	0,51	0,49	0,52	0,50	0,48	0,50	0,49	0,48	0,46
K	4,00	0,58	0,57	0,55	0,53	0,52	0,54	0,52	0,51	0,52	0,51	0,50	0,49
	5,00	0,59	0,58	0,56	0,55	0,54	0,55	0,54	0,53	0,54	0,53	0,52	0,50

A: Ceiling

B: Wall

C: Floor

K: Room index





HORO

design Silvia Paola Pennacchio

HORO is a range of 1000W and 2000W asymmetrical high performance floodlights designed for indoor and outdoor sports lighting applications.

Based on knowledge gained through our experience of world wide installations, combined with application of the latest technologies in research and development and the use of high performance lamps, HORO can be considered as the ultimate choice for large area and sports lighting applications. One of the most important aims during the development of the HORO range was to study the anti-glare system and its effect on the athletes; as well as the upward light pollution and the problems caused by light pollution.





HORO

Horo's main features:

Efficiency: the high efficiency of the luminaire is achieved by the use of high quality high purity aluminium reflectors and high transmission clear glass, providing a coefficient light transmission > 90%.

Uniformity: the heads of the reflector have been studied in order to enlarge the light emission.

Photometric flexibility: available with broad and narrow distribution reflectors, and a wide range of high performance lamp options, provides the lighting designer with the photometric flexibility to satisfy a variety of lighting applications for general area and professional sports lighting.

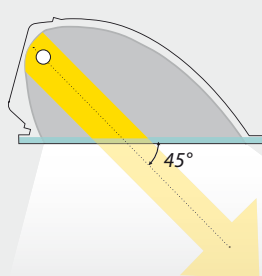
Limited windage surface: the low weight and reduced windage surface area of the HORO luminaires makes them ideal for mounting on lightweight structures leading to installation cost savings.

Fast installation and easy maintenance: quick and easy installations and adjustments are provided by a single adjustment screw and goniometer on the standard mounting bracket. Rear access to lamp chamber provides easy lamp replacement without the need to move or adjust the floodlight from its focused position.

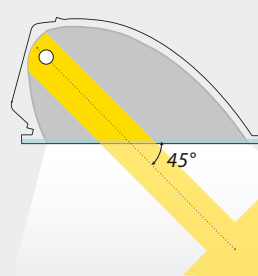


Efficiency

The high efficiency of the luminaire is achieved by the use of high quality high purity aluminium reflectors and high transmission clear glass, providing a coefficient light transmission > 90%. The angle of incidence of the 45° maximum beam intensity reduces the reflected light and provides higher light transmission compared to luminaires with higher angles of incidence.



Standard glass.

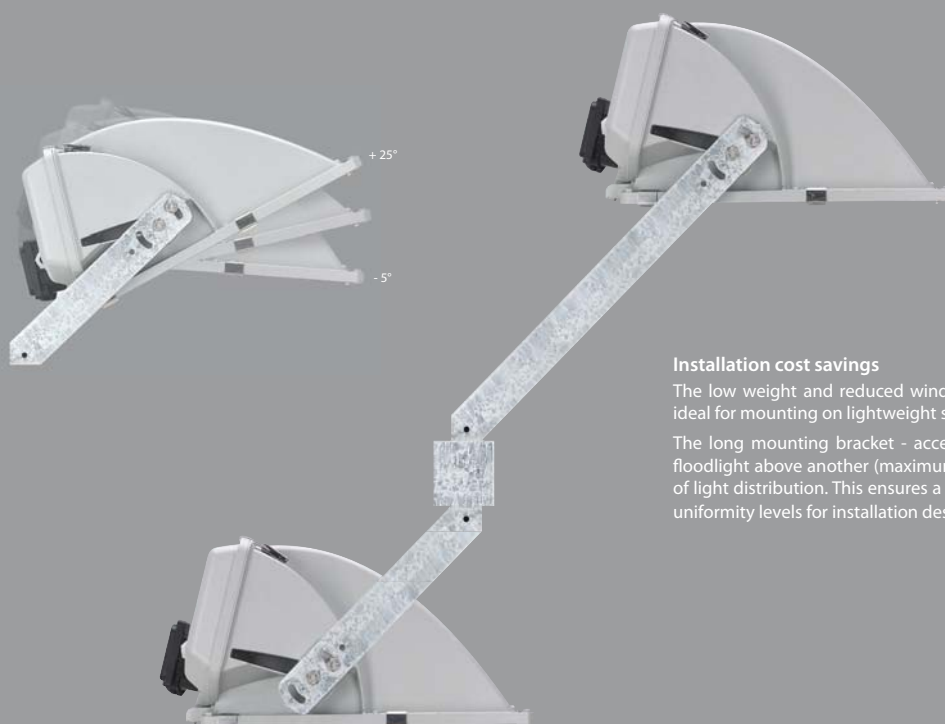


Extra-clear glass.

**Fast installation and easy maintenance**

Quick and easy installations and adjustments are provided by a single adjustment screw and goniometer on the standard mounting bracket. Rear access to lamp chamber provides easy lamp replacement without the need to move or adjust the floodlight from its focused position.

HORO



Installation cost savings

The low weight and reduced windage surface area of the HORO luminaires makes them ideal for mounting on lightweight structures leading to installation cost savings.

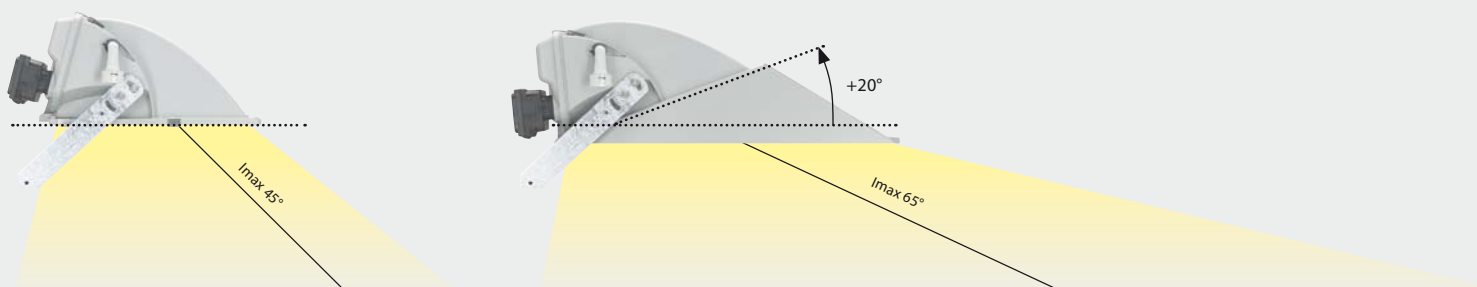
The long mounting bracket - accessory A0448 - is suitable for use when mounting one floodlight above another (maximum two luminaires recommended), avoiding interference of light distribution. This ensures a professional lighting scheme with accurate lighting and uniformity levels for installation design cost savings.

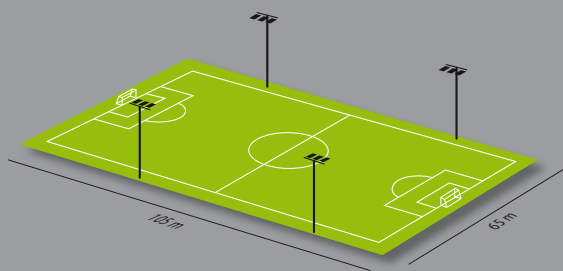


Light pollution

Without the need for the external shade the HORO floodlights peak beam can be raised to 65° (glass inclination of 20°), maintaining the upward spill light, which in many applications may satisfy the dark sky requirements.

For more demanding applications on light pollution and glare control the HORO range offers three external shades for use up to 65° peak beam, maintaining upward light pollution and reducing the effect of sky glow.



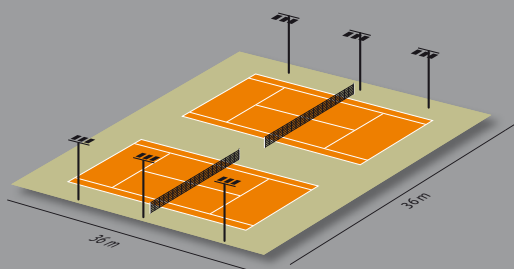
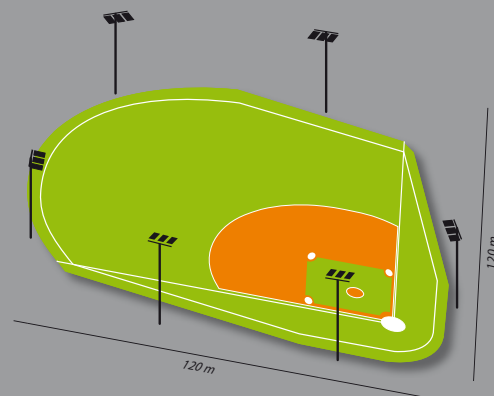


FOOTBALL 2000W LA

Nr. poles	H poles	Nr. HORO	CLASSE	Av. LUX	MIN/AV	Pointes
4	18	8	III	118	0,56	21x13
4	18	12	III	184	0,62	21x13
4	18	16	II	230	0,65	21X13
4	18	36	I	505	0,77	21X13

BASEBALL 2000W LA

Nr. poles	H poles	Nr. HORO	CLASSE	Av. LUX	MIN/AV	Pointes
6	20	24	III	infield 330 outfield 222	0,70 0,59	13x13 21x21
6	20	32	II	infield 505 outfield 304	0,74 0,60	13x13 21x21

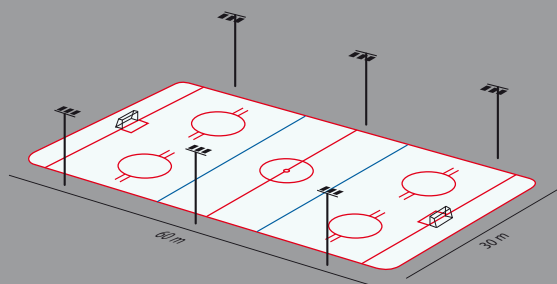
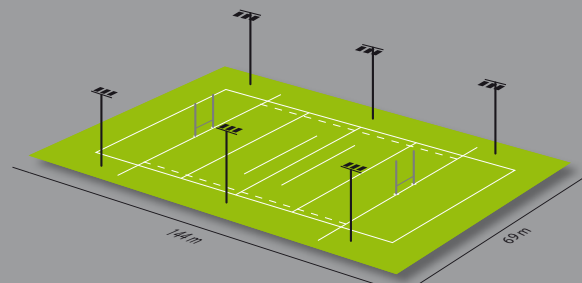


TENNIS 1000W SA

Nr. poles	H poles	Nr. HORO	CLASSE	Av. LUX	MIN/AV	Pointes
6	10	6	III	205	0,60	15x14
6	10	8	II	330	0,71	15x14
6	10	16	I	507	0,70	15x14

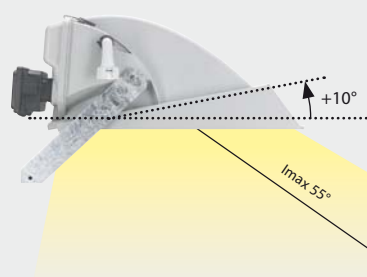
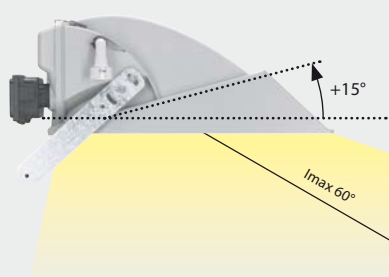
RUGBY 2000W LA

Nr. poles	H poles	Nr. HORO	CLASSE	Av. LUX	MIN/AV	Pointes
6	20	12	III	138	0,55	23x11
6	20	18	II	207	0,68	23x11
6	20	48	I	540	0,71	23x11



ICE HOCKEY 1000W SA

Nr. poles	H poles	Nr. HORO	CLASSE	Av. LUX	MIN/AV	Pointes
6	12	10	III	236	0,55	17x9
6	12	20	II	503	0,71	17x9
6	12	30	I	760	0,74	17x9



HORO

Horo's main features:

Efficiency: the high efficiency of the luminaire is achieved by the use of high quality high purity aluminium reflectors and high transmission clear glass, providing a coefficient light transmission > 90%.

Uniformity: the heads of the reflector have been studied in order to enlarge the light emission.

Photometric flexibility: available with broad and narrow distribution reflectors, and a wide range of high performance lamp options, provides the lighting designer with the photometric flexibility to satisfy a variety of lighting applications for general area and professional sports lighting.

Limited windage surface: the low weight and reduced windage surface area of the HORO luminaires makes them ideal for mounting on lightweight structures leading to installation cost savings.

Fast installation and easy maintenance: quick and easy installations and adjustments are provided by a single adjustment screw and goniometer on the standard mounting bracket. Rear access to lamp chamber provides easy lamp replacement without the need to move or adjust the floodlight from its focused position.

SPECIFICATION

Body in die-cast aluminium finished polyester powder coated.

Cover fixing clips in stainless steel with safety hook.

Polyamide ignitor housing complete with ignitor mounted directly to body.

Reflectors in high purity aluminium.

Lamp supports in ceramic with stainless steel retaining spring and nickel-plated brass contacts.

Internal cables in THT silicon.

Hot dipped galvanised steel mounting bracket.

Retaining gaskets in silicon.

Automatic line switch in LCP.

5mm clear toughened safety glass.

Glass fixing springs in stainless steel.

Patented IP66 anti-vacuum in polyamide.

Stainless steel external screw fixings.



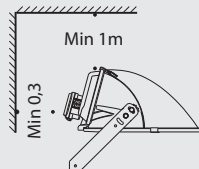
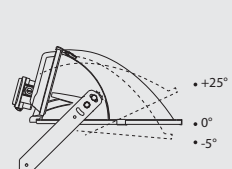
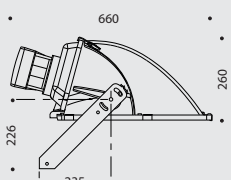
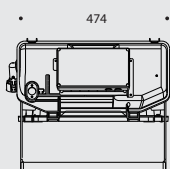
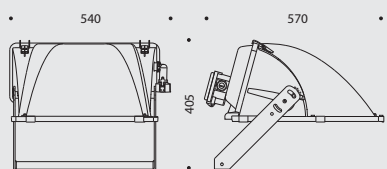
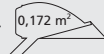
94

CLASS I

IP 65

IK 09
12J

KG
max 17kg

H07RN-F 3Gx2,5
3x2,5mm²


HORO

ALL HORO LUMINAIRES SUPPLIED COMPLETE WITH IGNITOR.



HORO 1000 / M Asymmetrical medium beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	1000W	MN		A45 M	94	I	C		04022694	for lamp HQI-TS 1000 D/S	•
cable	1000W	MN		A45 M	94	I	C		04022794	for lamp MHN-LA	•
cable	1000W	MN		A45 M	94	I	C		04022894	for lamp MHN-FC	•

HORO 1000 / INT Asymmetrical narrow beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	1000W	MN		A45 INT	94	I	C		04022394	for lamp HQI-TS 1000 D/S	•
cable	1000W	MN		A45 INT	94	I	C		04022494	for lamp MHN-LA	•
cable	1000W	MN		A45 INT	94	I	C		04022594	for lamp MHN-FC	•



HORO 2000 / M Asymmetrical medium beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	2000W	MN		A45 M	94	I	C		04021994	for lamp HQI-TS 2000 D/S	•
cable	2000W	MN		A45 M	94	I	C		04022094	for lamp HQI-TS 2000 D/L for lamp HQI-TS 2000 N/L	•
cable	2000W	MN		A45 M	94	I	C		04022194	for lamp MHN-LA	•
cable	2000W	MN		A45 M	94	I	C		04022294	for lamp MHN-FC	•

HORO 2000 / INT Asymmetrical narrow beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	2000W	MN		A45 INT	94	I	C		04021594	for lamp HQI-TS 2000 D/S	•
cable	2000W	MN		A45 INT	94	I	C		04021694	for lamp HQI-TS 2000 D/L for lamp HQI-TS 2000 N/L	•
cable	2000W	MN		A45 INT	94	I	C		04021794	for lamp MHN-LA	•
cable	2000W	MN		A45 INT	94	I	C		04021894	for lamp MHN-FC	•

HORO 1000 - E40 E40 - High pressure sodium

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
E40	1000W	ST		A45 M	94	I	C		04023094		•
E40	1000W	ST		A45 INT	94	I	C		04022994		•



HORO 1000 HR HR (Hot Restrike)

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	1000W	MN		A45 M	94	I	C		04025094	for lamp HQI-TS 1000 D/S	

HORO 2000 HR HR (Hot Restrike)

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEI = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
cable	2000W	MN		A45 INT	94	I	C		04023194	for lamp HQI-TS 2000 D/S	
cable	2000W	MN		A45 M	94	I	C		04023294	for lamp HQI-TS 2000 D/S	

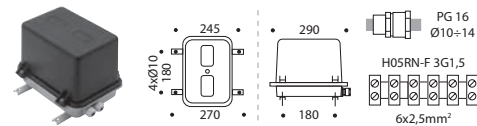
HORO

MN		cable	1000 W - 2000 W	MHN-FC
MN		cable	2000 W	HQI-TS/D/L
MN		cable	1000 W - 2000 W	MHN-LA
MN		cable	1000 W - 2000 W	HQI-TS/D/S
ST		E40	1000 W	NAV-T/SON-T

CONTROL GEAR

All floodlights require the appropriate control gear (ballast + capacitors) to be ordered separately in addition to the floodlight luminaire.
Available as follows:

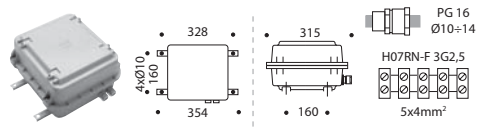
- BOX/AL control gear housing constructed from aluminium.
- BOX/PA control gear base constructed from aluminium with polyamide cover.
- Galvanised steel gear tray for installation into an electrical cabinet / lighting pole.



BOX/PA IP65

W	Ilcos	Colour	Class	Wiring	EEL	Cosp	Code	Notes
1000W	ST-MN	94	I	CRF			14215003	*for lamp HQI-TS 1000 D/S MHN-LA MHN-FC

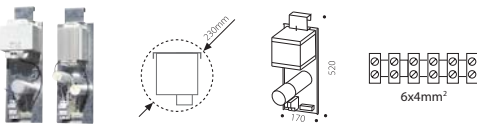
Aluminium base and polyamide cover.



BOX/AL IP65

1000W	ST-MN*	94	I	CRF			14013320	*for lamp HQI-TS 1000 D/S MHN-LA MHN-FC
2000W	MN	94	I	CR			14014394	for lamp HQI-TS 2000 D/S
2000W	MT-MN*	94	I	CR			14106003	*for lamp HQI-TS 2000 D/L HQI-TS 2000 N/L MHN-LA MHN-FC

Aluminium construction.



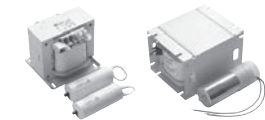
A0239

1000W	ST-MN*	I	CRF				14020701	*for lamp HQI-TS 1000 D/S MHN-LA MHN-FC
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A0238

2000W	MN	I	CRF				14020601	for lamp HQI-TS 2000 D/S HQI-TS 2000 D/L HQI-TS 2000 N/L MHN-LA MHN-FC
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Steel galvanized sheet tray.



Set 1000W

1000W	ST-MN*	I					14260003	*for lamp HQI-TS 1000 D/S MHN-LA MHN-FC
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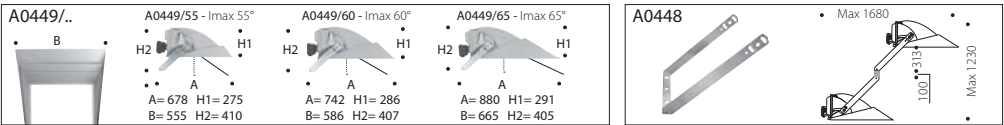
Set 2000W

2000W	MN	I					14014420	for lamp HQI-TS 2000 D/S HQI-TS 2000 D/L HQI-TS 2000 N/L MHN-LA MHN-FC
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Control gear set (loose components) comprising; ballast and capacitors for 1000W (Set 1000W) or 2000W Ray (Set 2000W).

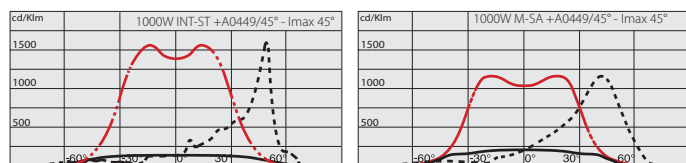
☞ With fuse.

ACCESSORIES

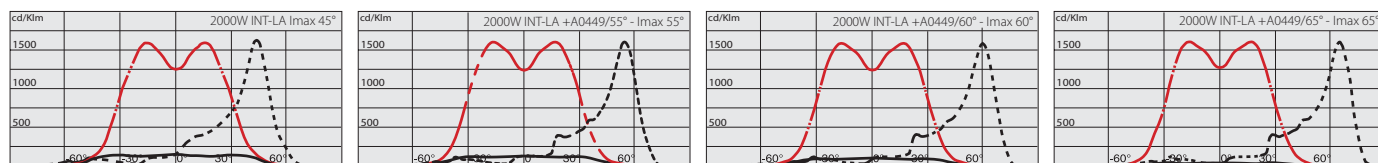


Code	Denomination	Colour	Description
14090394	A0449 / 55°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 55° and reduces upward light pollution.
14090494	A0449 / 60°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 60° and reduces upward light pollution.
14090594	A0449 / 65°	94	External cowl in sheet aluminium, provides full cut off with peak beam max 65° and reduces upward light pollution.
14090202	A0448	02	Long mounting bracket in hot dipped galvanised steel suitable for use when mounting one floodlight above another to avoid interference of light distribution.
14159204	A0607	04	Stainless steel pointing device.

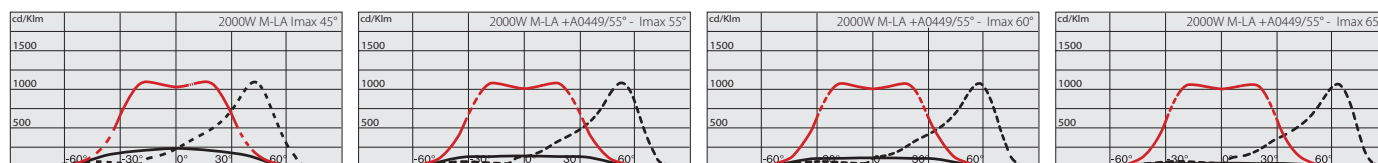
HORO 1000 - INT / M



HORO 2000 - INT



HORO 2000 - M



RAY

design Silvia Paola Pennacchio

RAY compact lightweight high performance powerful floodlights with a range of optics. Ray is suitable for indoor and outdoor applications, combining design flexibility and performance in a competitive package. The contemporary compact design with high quality materials and finishes makes RAY suitable for the most prestigious of installations.







ARCHITECTURAL LIGHTING

With the increasing interest from local authorities, designers and the general public to the benefits of landscape beautification and architectural lighting the need to have technical floodlights which create dramatic effects without light pollution becomes paramount.



SPORTS INSTALLATIONS

With a diverse range of sports activities and multi-disciplined events lighting is an important feature in the design and application of sports installations. Ray is a complete range of powerful technical floodlights for use with metal halide short arc 1000W and 2000W lamps providing high performance lighting for sports facilities and architectural detail of buildings.

RAY

SPECIFICATION

Die-cast aluminium body and cover frame, painted aluminium grey, sandblasted and phosphor-chromate pre-treatment, corrosion-resistant.

Stainless steel cover fixing clips with safety hook.

Polyamide wiring box complete with igniter.

Wide range of heavy gauge, weather-resistant, 99.98% pure aluminium, polished and oxidised reflectors. The reflectors also act as heat sinks, helping to dissipate the temperature of the lamp and thereby increasing its lifespan.

Ceramic lamp holders with stainless steel support spring.

Nickel-plated copper internal wires, cross-section

1.5 to 4 mm² with THT silicone coating.

Painted steel bracket complete with graduated goniometer.

Two-component silicone mousse gasket deposited directly onto the glass, protected against UV radiation from the lamp.

Automatic LCP line disconnecter.

5 mm heat-high impact glass or 2 mm chemically-toughened glass (HU versions).

Stainless steel glass wire guard, where applicable.

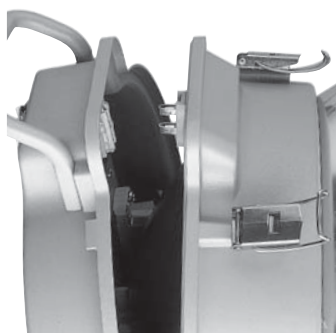
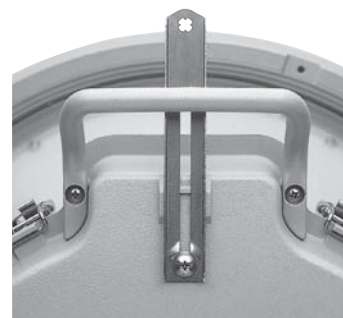
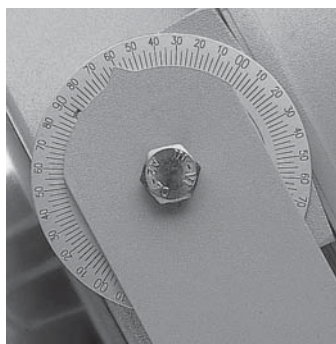
Stainless steel retractable aiming device.

Patented IP66 polyamide anti-vacuum device.

Stainless steel external screws.

V0 UL94 850° models available on request.

ALL RAY MODELS COME COMPLETE WITH IGNITER.



INTENSIVE BEAM OPTICS

 7°	 10°	 15°
RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)	RAY 1000 ----- RAY 2000 RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR)	RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)

MEDIUM BEAM OPTICS

 17°	 25°	 32°	 34°
RAY 1000 ----- RAY 2000 RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR)	RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)	RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)	RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)

WIDE BEAM OPTICS

 38°	 40°	 60°
RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux HU (ONLY OUTDOOR)	RAY 1000 ----- RAY 2000 RAY 2000 High Flux (ONLY OUTDOOR)	RAY 1000 RAY 1000 HU RAY 1000 HU-HR (Hot Restrike) -E ----- RAY 2000 RAY 2000 HU RAY 2000 HU-HR (Hot Restrike) -E RAY 2000 High Flux (ONLY OUTDOOR) RAY 2000 High Flux HU (ONLY OUTDOOR)

CONTROL GEAR:

All floodlights require the appropriate remote control gear (ballast + capacitors) to be ordered separately in addition to the floodlight luminaire.

Available as follows:

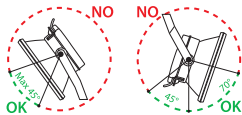
- BOX/AL control gear housing constructed from aluminium.
- BOX/PA control gear base constructed from aluminium with polyamide cover.
- Galvanised steel gear tray for installation into an electrical cabinet / lighting pole.

RAY 1000



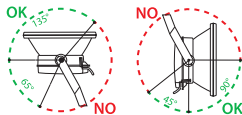
RAY / 1000

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	⚡
cable	1000W	MN	C 7°	94	I	C				04002394	!	•
cable	1000W	MN	C 10°	94	I	C				04032694	!	•
cable	1000W	MN	C 15°	94	I	C				04002494	!	•
cable	1000W	MN	C 17°	94	I	C				04034694	!	•
cable	1000W	MN	C 25°	94	I	C				04032794	!	•
cable	1000W	MN	C 32°	94	I	C				04032894	!	•
cable	1000W	MN	C 34°	94	I	C				04002594	!	•
cable	1000W	MN	C 40°	94	I	C				04032994	!	•
cable	1000W	MN	C 60°	94	I	C				04003894	!	•



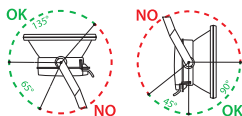
RAY / 1000 HU

cable	1000W	MN	C 7°	94	I	C				04019694	!²	•
cable	1000W	MN	C 15°	94	I	C				04019794	!²	•
cable	1000W	MN	C 25°	94	I	C				04033094	!²	•
cable	1000W	MN	C 32°	94	I	C				04033194	!²	•
cable	1000W	MN	C 34°	94	I	C				04019894	!²	•
cable	1000W	MN	C 38°	94	I	C				04033294	!²	•
cable	1000W	MN	C 60°	94	I	C				04019994	!²	•

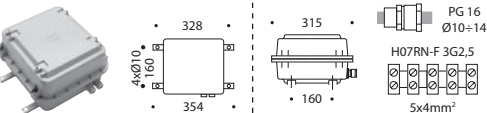


RAY / 1000 HU-HR-E (Hot Restrike)

cable	1000W	MN	C 7°	94	I	C				04031894	!² ³	•
cable	1000W	MN	C 15°	94	I	C				04031994	!² ³	•
cable	1000W	MN	C 25°	94	I	C				04034094	!² ³	•
cable	1000W	MN	C 32°	94	I	C				04034194	!² ³	•
cable	1000W	MN	C 34°	94	I	C				04027194	!² ³	•
cable	1000W	MN	C 38°	94	I	C				04034294	!² ³	•
cable	1000W	MN	C 60°	94	I	C				04027294	!² ³	•



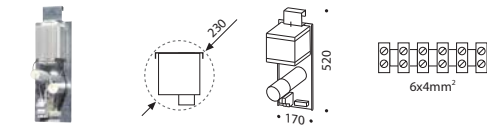
- ! Complete with thermally high impact glass.
- !² Complete with chemically high impact glass and stainless steel wire guard.
- !³ Complete with electronic device for instant hot re-strike.



BOX/AL IP65

W	Ilcos	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
1000W	MN	94	I	CRF			14013320	☞

Aluminium construction. ☞ With fuse.



A0239

1000W	MN		I	CRF			14020701	☞
-------	----	--	---	-----	--	--	-----------------	---

Steel galvanized sheet tray. ☞ With fuse.



Set 1000W

1000W	MN		I	CR			14260003	
-------	----	--	---	----	--	--	-----------------	--

Control gear set (loose components) comprising; ballast and capacitors for 1000W.

94

CLASS I

IP 66

IK 07
2,6J
RAY

IK 09
18J
RAY HU

F

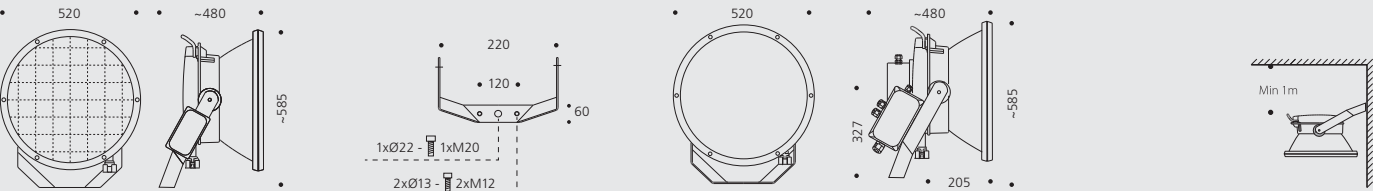
0,21m²

KG
Max 16,5kg

M25x1,5
Ø9÷Ø14

H07RN-F 3Gx2,5
3x2,5mm²

03
Depending
on the Models

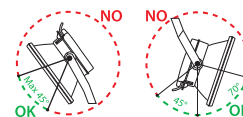


RAY 2000



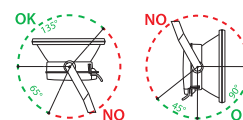
RAY / 2000

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL	Cosp ≥ 0,9	Code	Notes	RoHS
cable	2000W	MN	C 7°	94	I	C				04002994	!	•
cable	2000W	MN	C 10°	94	I	C				04033394	!	•
cable	2000W	MN	C 15°	94	I	C				04003094	!	•
cable	2000W	MN	C 17°	94	I	C				04032394	!	•
cable	2000W	MN	C 25°	94	I	C				04033494	!	•
cable	2000W	MN	C 32°	94	I	C				04033594	!	•
cable	2000W	MN	C 34°	94	I	C				04003194	!	•
cable	2000W	MN	C 40°	94	I	C				04033694	!	•
cable	2000W	MN	C 60°	94	I	C				04004094	!	•



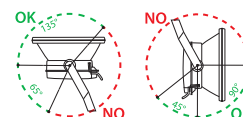
RAY / 2000 HU

cable	2000W	MN	C 7°	94	I	C				04002694	!²	•
cable	2000W	MN	C 15°	94	I	C				04002794	!²	•
cable	2000W	MN	C 25°	94	I	C				04033794	!²	•
cable	2000W	MN	C 32°	94	I	C				04033894	!²	•
cable	2000W	MN	C 34°	94	I	C				04002894	!²	•
cable	2000W	MN	C 38°	94	I	C				04033994	!²	•
cable	2000W	MN	C 60°	94	I	C				04011994	!²	•

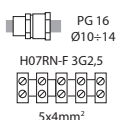
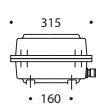
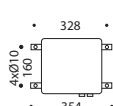


RAY / 2000 HU-HR-E (Hot Restrike)

cable	2000W	MN	C 7°	94	I	C				04026394	!² ³	•
cable	2000W	MN	C 15°	94	I	C				04026494	!² ³	•
cable	2000W	MN	C 25°	94	I	C				04034394	!² ³	•
cable	2000W	MN	C 32°	94	I	C				04034494	!² ³	•
cable	2000W	MN	C 34°	94	I	C				04026594	!² ³	•
cable	2000W	MN	C 38°	94	I	C				04034594	!² ³	•
cable	2000W	MN	C 60°	94	I	C				04026694	!² ³	•



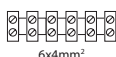
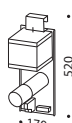
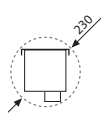
- ! Complete with thermally high impact glass.
- !² Complete with chemically high impact glass and stainless steel wire guard.
- !³ Complete with electronic device for instant hot re-strike.



BOX/AL IP65

W	Ilcos	Colour	Class	Wiring	Cosp ≥ 0,9	Code	Notes
2000W	MN	94	I	CR	•	14014394	

Aluminium construction.



A0238

2000W	MN		I	CRF	•	14020601	⇌
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Steel galvanized sheet tray.

⇌ With fuse.



Set 2000W

2000W	MN		I	CR	•	14014420	
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Control gear set (loose components) comprising; ballast and capacitors for 2000W.

RAY

MN	•	•	cable	1000 W	HQI-TS/D/S
MN	•	•	cable	2000 W	HQI-TS/D/S

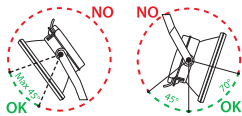
RAY 2000 - High Flux

High Flux Lamp
Series of floodlights for outdoor use suitable for OSRAM HQI-TS 2000/D/S High Flux lamps.
The use of these lamps, with a flux greater than ordinary lamps, can reduce the number of luminaires installed and increase illuminance values, maintaining the excellent colour rendering values required in professional sports facilities.



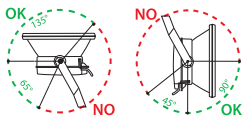
RAY High Flux / 2000

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEl =	Cosp ≥ 0,9	Code	Notes	CE
cable	2000W	MN		C 7°	94	I	C			04035094	! 1	
cable	2000W	MN		C 10°	94	I	C			04035194	! 1	
cable	2000W	MN		C 15°	94	I	C			04035294	! 1	
cable	2000W	MN		C 17°	94	I	C			04035394	! 1	
cable	2000W	MN		C 25°	94	I	C			04035494	! 1	
cable	2000W	MN		C 32°	94	I	C			04035594	! 1	
cable	2000W	MN		C 34°	94	I	C			04035694	! 1	
cable	2000W	MN		C 40°	94	I	C			04035794	! 1	
cable	2000W	MN		C 60°	94	I	C			04035894	! 1	

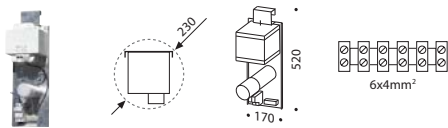


RAY High Flux / 2000 HU

cable	2000W	MN		C 7°	94	I	C			04035994	! 2	
cable	2000W	MN		C 15°	94	I	C			04036094	! 2	
cable	2000W	MN		C 25°	94	I	C			04036194	! 2	
cable	2000W	MN		C 32°	94	I	C			04036294	! 2	
cable	2000W	MN		C 34°	94	I	C			04036394	! 2	
cable	2000W	MN		C 38°	94	I	C			04036494	! 2	
cable	2000W	MN		C 60°	94	I	C			04036594	! 2	



- ! Complete with thermally high impact glass.
- ! 2 Complete with chemically high impact glass and stainless steel wire guard.



A0238/HF for RAY 2000W High Flux

W	Ilcos	Colour	Class	Wiring	EEl =	Cosp ≥ 0,9	Code	Notes
2000W	MN		I	CRF			14150320	With fuse.

Steel galvanized sheet tray.



94

CLASS I

IP 66

IK 07
2,6J

F

0,21m²

KG
Max 16,5kg

M25x1,5
09÷014

H07RN-F 3Gx2,5
3x2,5mm²

03
Depending
on the Models

CE

520

~480

~585

220

120

60

1xØ22 - 1xM20

2xØ13 - 2xM12

Min 1m

RAY

MN • cable 2000 W HQI-TS/D/S High Flux

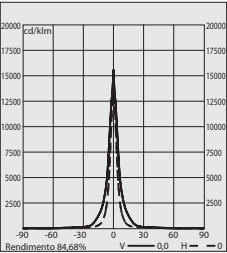
ACCESSORIES



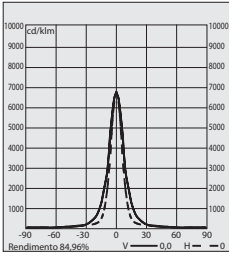
Code	Denomination	Description
14013720	A0215	Stainless steel wire guard. Supplied as standard with RAY HU models.
14013620	A0214	Internal aluminium baffle to minimise light pollution. Must be ordered as an accessory together with the luminaire. Not suitable for 34°, 38°, 40° and 60°.
14013420	A0213/1000	Timed ignitor supplement, for 1000 W only, must be ordered together with the luminaire.



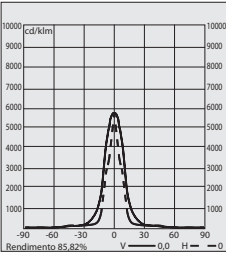
RAY 1000 W



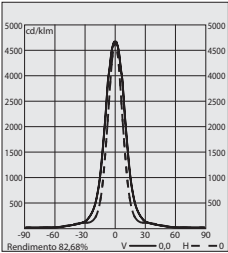
7° - HQI-TS - cod. 04002394



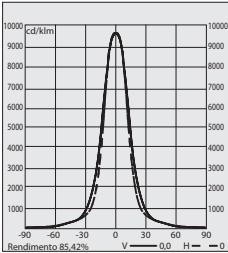
10° - HQI-TS - cod. 04032694



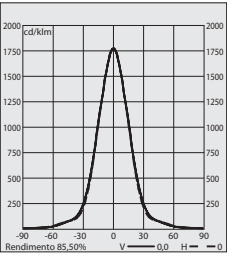
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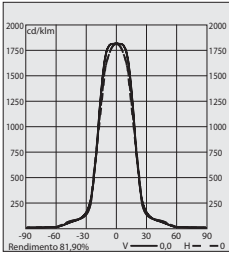
17° - HQI-TS - cod. 04034694



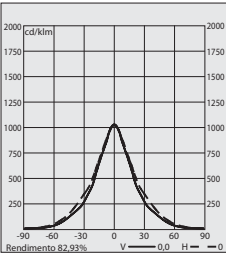
25° - HQI-TS - cod. 04032794



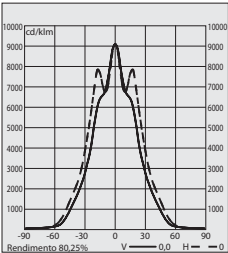
32° - HQI-TS - cod. 04032894



34° - HQI-TS - cod. 04002594

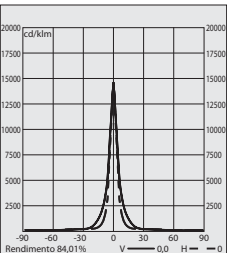


40° - HQI-TS - cod. 04032994

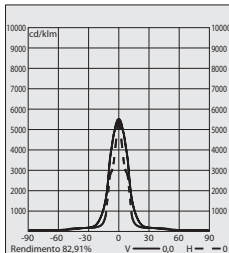


60° - HQI-TS - cod. 04003894

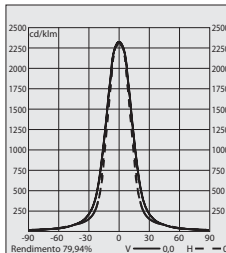
RAY 1000 W - HU



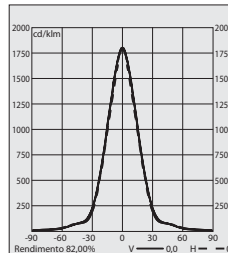
7° - HQI-TS - cod. 04019694



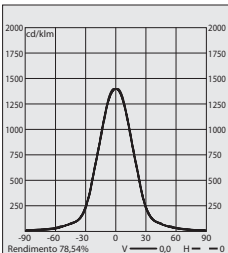
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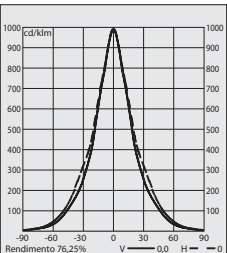
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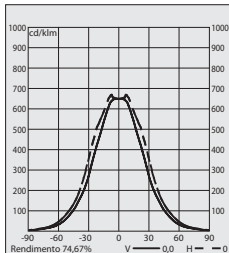
32° - HQI-TS - cod. 04033194



34° - HQI-TS - cod. 04019894

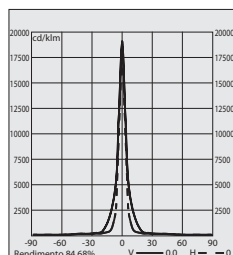


38° - HQI-TS - cod. 04033294

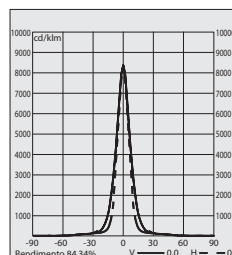


60° - HQI-TS - cod. 04019994

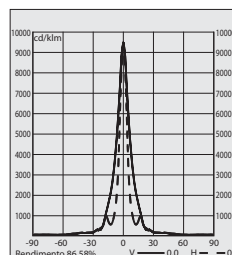
RAY 2000 W



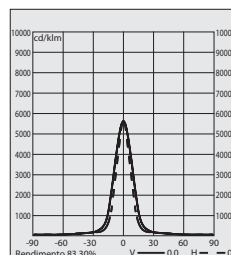
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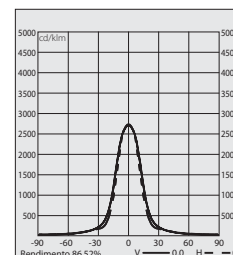
10° - HQI-TS - cod. 04003394



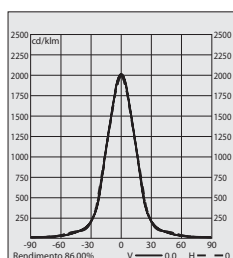
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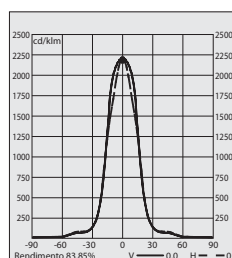
17° - HQI-TS - cod. 04003294



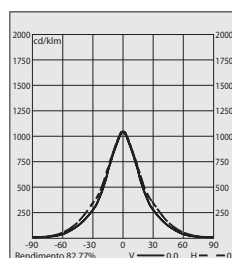
25° - HQI-TS - cod. 04003494



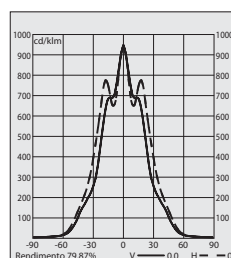
32° - HQI-TS - cod. 04003594



34° - HQI-TS - cod. 04003394

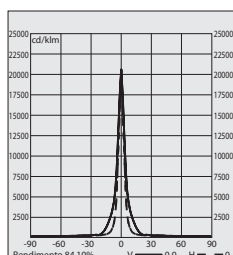


40° - HQI-TS - cod. 04003694

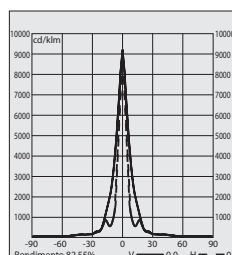


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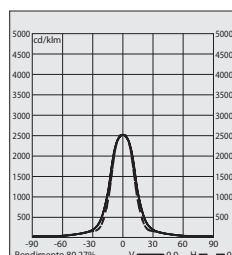
RAY 2000 W - HU



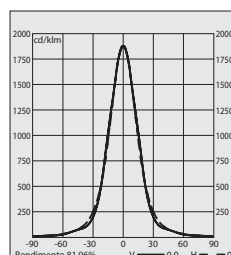
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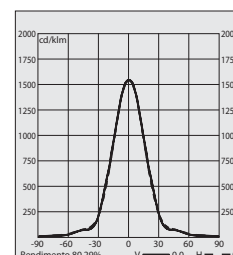
15° - HQI-TS - cod. 04002794



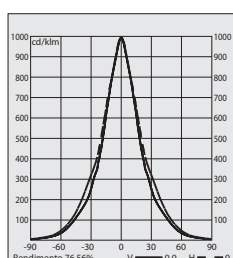
25° - HQI-TS - cod. 04003794



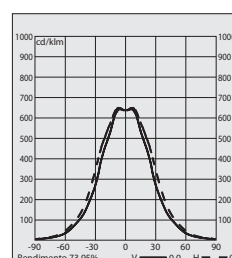
32° - HQI-TS - cod. 04003894



34° - HQI-TS - cod. 04002894

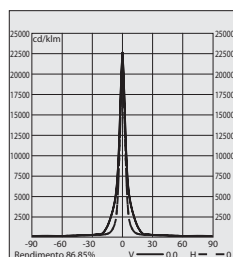


38° - HQI-TS - cod. 04003394

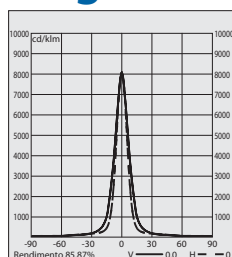


60° - HQI-TS - cod. 04011994

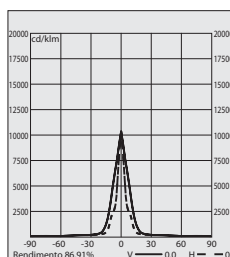
RAY 2000 W - High Flux



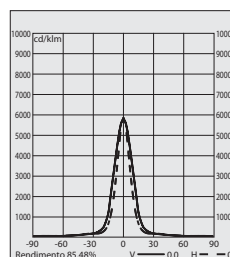
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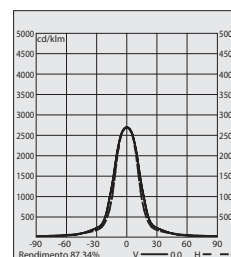
10° - HQI-TS - cod. 04035194



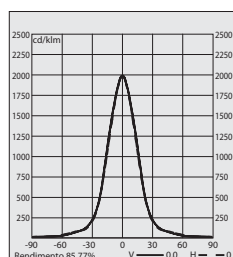
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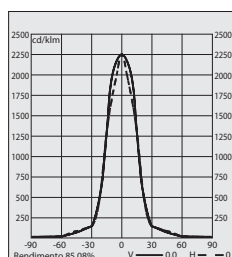
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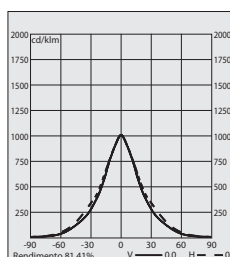
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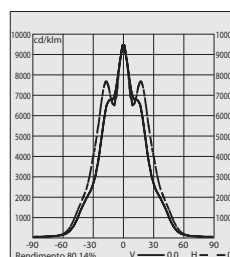
32° - HQI-TS - cod. 04035594



34° - HQI-TS - cod. 04035694

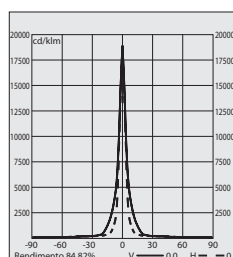


40° - HQI-TS - cod. 04035794

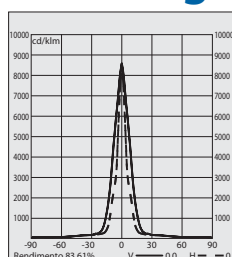


60° - HQI-TS - cod. 04035894

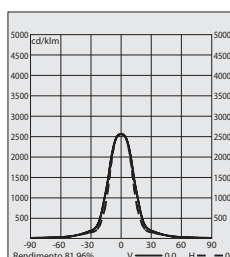
RAY 2000 W - HU - High Flux



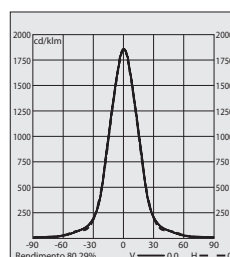
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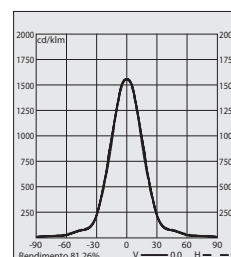
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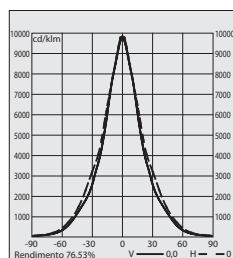
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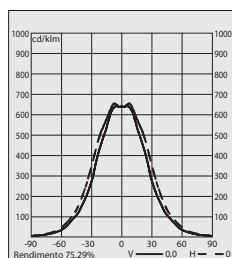
32° - HQI-TS - cod. 04036294



34° - HQI-TS - cod. 04036394



38° - HQI-TS - cod. 04036494



60° - HQI-TS - cod. 04036594



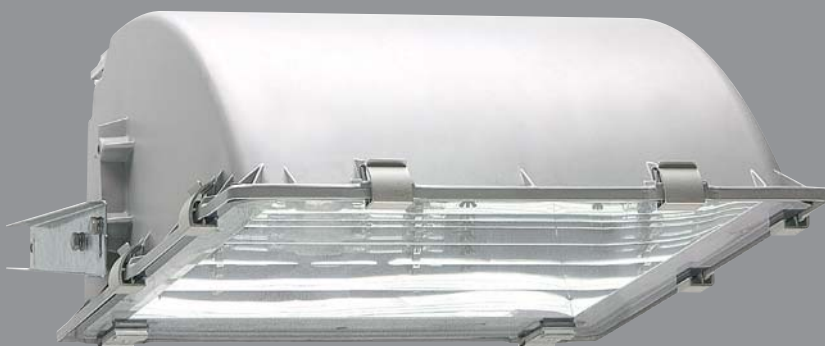
SKYS

design Silvia Paola Pennacchio

SKYS floodlights are ideal for use in lighting installations designed in accordance with current regulations regarding lighting pollution. SKYS floodlights are particularly suitable for lighting large open areas; sports grounds, industrial complexes, motorway intersections, large car parks, ports and airports.

The large area reflector produces very effective photometric performances; high efficiency (70-80% LOR), high asymmetry (I_{max} 60°), perfect controlled and uniform distribution. They are available with medium beam (SKYS/M) or narrow beam (SKYS/INT) reflectors with the following lamp options:

- 2x250÷600 W with options to have combinations of wattages 250 W / 400 W or 600 W and a mixture of sodium or metal halide lamps to offer an excellent chromatic mix.
- 1000 W E40 metal halide or high pressure sodium.





SKYS

SPECIFICATION:

Body in die-cast aluminium chromate pretreated finished polyester coated. Asymmetrical reflector (Imax 60°) in high purity aluminium anodised and polished. Stainless steel lamp steady retaining clip to prevent lamp vibration (only for 1000 W E40 versions).

5mm impact resistant safety glass hinged to body and secured by quick release retaining clips.

Anti-ageing dual foam silicone gasket, factory injection direct to glass CNC process. Cover fixing clips in anodized aluminium with AISI 302 stainless steel spring.

Steel bracket hot dipped galvanised. Suitable for horizontal or vertical installation with firm double screw fix on both sides and slotted hole for $\pm 10^\circ$ adjustment.

IP66 patented polyamide anti-vacuum device.

Polyamide wiring box and ignitor housing.

Luminaire supplied complete with ignitor.

Floodlights require the appropriate remote control gear (ballasts + capacitors) available in a gear box (BOX/AL or BOX/PA)

or mounted to a galvanised gear tray for installation into an electrical cabinet, to be ordered separately in addition to the floodlight.



ALL SKYS LUMINAIRES SUPPLIED COMPLETE WITH IGNITOR.

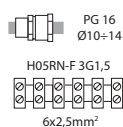
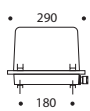
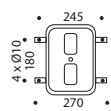
SKYS / M

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	Cosp EEI = $\geq 0,9$	Code	Notes	
E40	2x250÷400W	MT*	A60	M	94	I	C		04008394	*for lamp HPI-T	•
E40	2x250÷400W	ST-MT	A60	M	94	I	C		04000994		•
E40	1000W	MT*	A60	M	94	I	C		04000594	*for lamp HPI-T	•
E40	1000W	ST-MT	A60	M	94	I	C		04000394		•



SKYS / INT

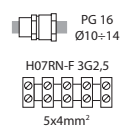
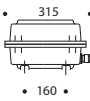
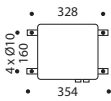
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	Cosp EEI = $\geq 0,9$	Code	Notes	
E40	2x250÷400W	MT*	A60	INT	94	I	C		04008494	*for lamp HPI-T	•
E40	2x250÷400W	ST-MT	A60	INT	94	I	C		04001094		•
E40	1000W	MT*	A60	INT	94	I	C		04000694	*for lamp HPI-T	•
E40	1000W	ST-MT	A60	INT	94	I	C		04000494		•



BOX/PA IP65

W	Ilcos	Colour	Class	Wiring	Cosp EEI = $\geq 0,9$	Code	Notes
1000W	MT*	94	I	CRF	•	14216003	*for lamp HPI-T
1000W	ST-MT	94	I	CRF	•	14215003	

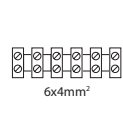
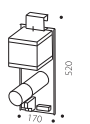
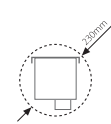
Aluminium base and polyamide cover.



BOX/AL IP65

250W+400W	ST-MT	94	I	CR	•	14361993	
2x250W	ST-MT	94	I	CR	•	14359993	
2x400W	ST-MT	94	I	CR	•	14360993	
2x400W	MT*	94	I	CR	•	14018594	*for lamp HPI-T
1000W	MT*	94	I	CRF	•	14013220	*for lamp HPI-T
1000W	ST-MT	94	I	CRF	•	14013320	
1000W	MT*	I	CRF	•	14025701		*for lamp HPI-T

Aluminium construction.



A0239

1000W	ST-MT	I	CRF	•	14020701	
400W	MT*	I	CRF	•	14058601	*for lamp HPI-T Plus
400W	ST-MT	I	CRF	•	14058701	

Steel galvanized sheet tray.

⇌ With fuse.

94

CLASS I



IP 65



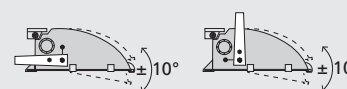
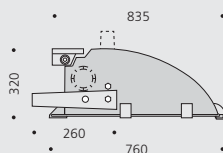
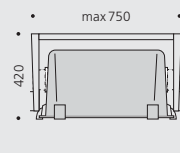
IK 08

5J

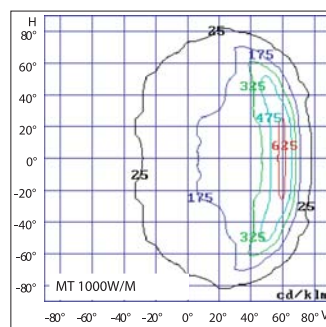
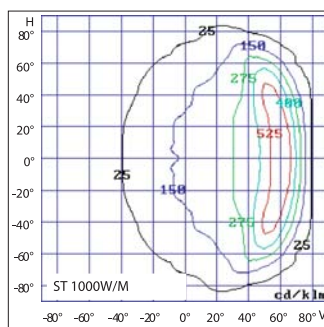
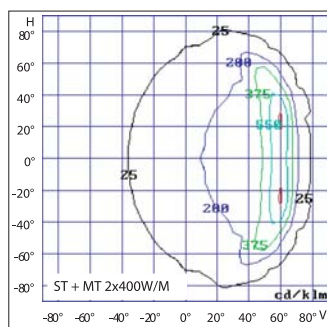
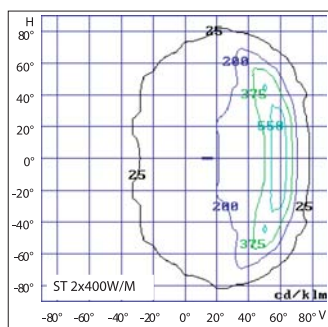
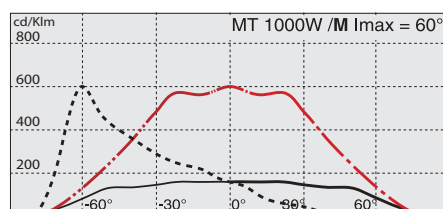
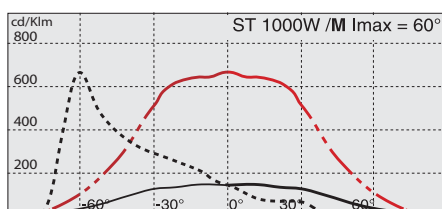
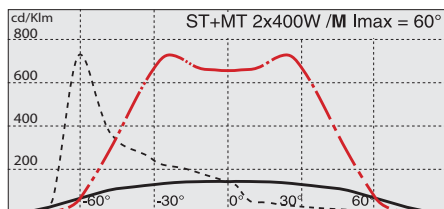


KG

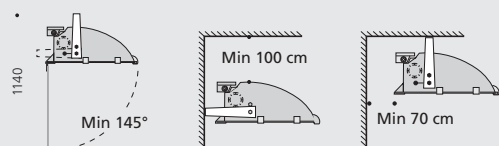
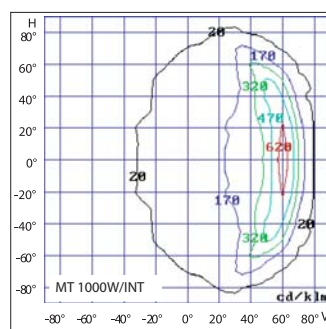
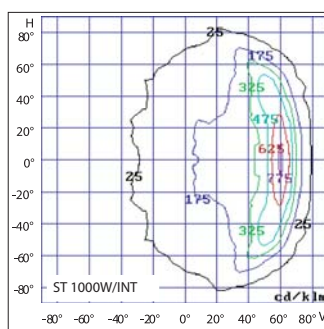
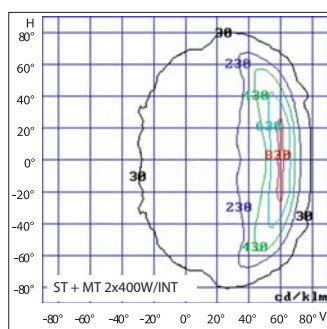
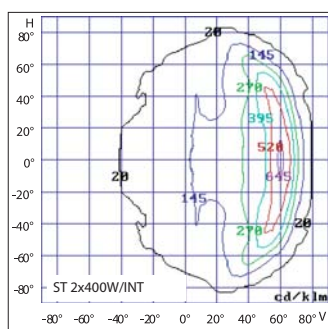
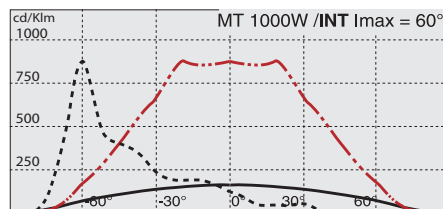
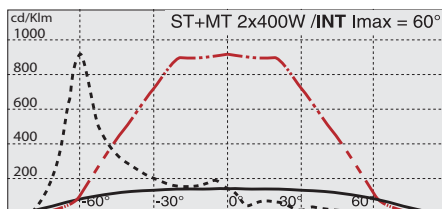
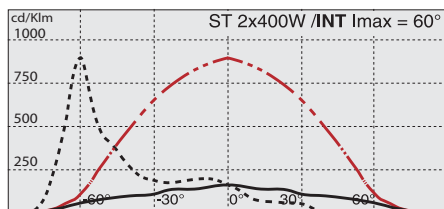
Max 26 kg



SKYS / M



SKYS / INT



SKYS

ST		E40	600W	NAV-T / SON-T
MT*		E40	250÷400W	HPI-T Plus
MT		E40	1000W	HPI-T
ST-MT		E40	250÷400W	NAV-T / SON-T/HQI-BT-D
ST-MT		E40	1000W	NAV-T / SON-T/HQI-T-D



LASER

design Silvia Paola Pennacchio

LASER are powerful asymmetric floodlights suitable for medium to large area installations and based on typical mounting heights of 12-30m. These powerful floodlights economically achieve the desired design levels with good glare control therefore minimizing upward light pollution. A rear access lamp compartment provides quick and easy re-lamping and maintenance in difficult locations.





LASER are powerful asymmetric floodlights designed for use with 1000 W and 2000 W HID lamps. They are particularly suitable for medium to large outdoor installations; sports grounds, golf course and driving ranges, ski slopes, motorway intersections, large car parks and commercial complexes, ports and airports.

Their asymmetrical cut-off reflector makes LASER ideal for use in lighting installations designed in accordance with current regulations regarding lighting pollution.

A rear access opening for the lamp chamber, hinged to the body, allows easy access to the lamp for maintenance and re-lamping.

LASER floodlights are available with medium beam (M) and narrow beam (INT) distribution reflectors and have a wide range of accessories.

Luminaires for use with 1000 W and 2000 W MHN-LA lamps provide excellent chromatic resolution making them suitable for colour television broadcasting applications.



SPECIFICATION:

Body in die-cast aluminium chromate pre-treated finished polyester coated.

Rear access lamp compartment hinges to body.

Die-cast aluminium wiring box with technopolymer cover.

Reflectors in high purity aluminium anodized and polished. Medium beam (M) and narrow beam (INT).

Stainless steel lamp steady retaining clip to prevent lamp vibration.

Toughened safety glass hinged to the body by stainless steel clips.

Anti-ageing dual foam silicone gasket, factory injection direct to glass CNC process.

Mounting bracket in steel hot dipped galvanized, with 5° graduated goniometer aiming device for luminaire adjustment.

Stainless steel external screws.

Floodlights require the appropriate remote control gear (ballasts + capacitors) available in a gear box (BOX/AL or BOX/PA) or mounted to a galvanised gear tray for installation into an electrical compartment, to be ordered separately in addition to the floodlight.



LASER



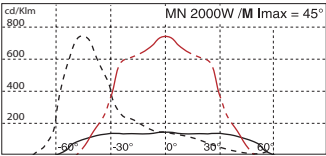
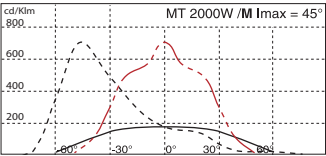
LASER / M Asymmetrical medium beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
E40	1000÷2000W	ST-MT-MT*		A45 M	94	I				01150013	•	
cable	2000W	MN		A45 M	94	I	C			01986013	!	



! Luminaires complete with ignitor housing and triple pole ignitor (5000V).

MT*	MT*	ST	MT	MT	MN
1000W HPI-T	2000W HPI-T	1000W NAV-T / SON-T	1000W HQI-T	2000W HQI-T	2000W MHN-LA



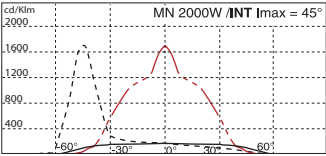
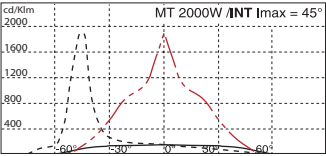
LASER / INT Asymmetrical narrow beam reflector

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
E40	1000÷2000W	ST-MT-MT*		A45 INT	94	I				01208013	•	
cable	2000W	MN		A45 INT	94	I	C			01987013	!	



! Luminaires complete with ignitor housing and triple pole ignitor (5000V).

MT*	MT*	ST	MT	MT	MN
1000W HPI-T	2000W HPI-T	1000W NAV-T / SON-T	1000W HQI-T	2000W HQI-T	2000W MHN-LA



94

CLASS I



IP 65



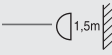
IK 08

8J



KG

max 22,5

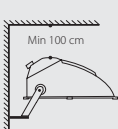
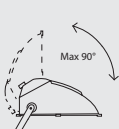
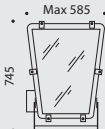
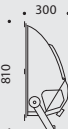


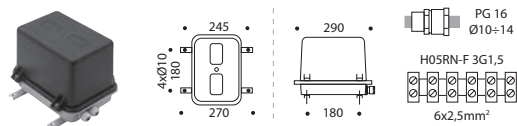
0,16 m²



H07RN-F 3G2,5

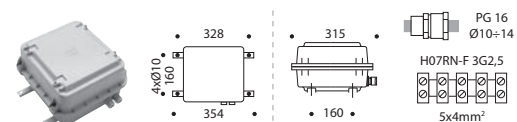
3x4mm²



**BOX/PA IP65**

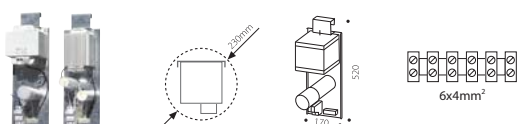
W	Ilcos	Colour Class	Wiring	EEL = $\geq 0,9$	Code	Notes
1000W	MT*	94	I	CRF	• 14261013	⇒ ! *for lamp HPI-T
1000W	ST-MT	94	I	CRF	• 14104003	⇒ !
1000W	ST-MT	94	I	CRF	• 14215003	⇒

Aluminium base and polyamide cover.

**BOX/AL IP65**

1000W	MT*	94	I	CRF	• 14017694	⇒ ! *for lamp HPI-T
1000W	ST-MT	94	I	CRF	• 14017794	⇒ !
1000W	ST-MT	94	I	CRF	• 14013320	⇒
2000W	MT-MN	94	I	CR	• 14106003	for lamp HQI-T, MHN-LA
2000W	MT*	94	I	CR	• 14274013	! *for lamp HPI-T (230V)
2000W	MT*	94	I	CR	• 14045020	*for lamp HPI-T (230V)

Aluminium construction.

**A0239**

1000W	MT*	I	CRF	• 14025701	⇒ *for lamp HPI-T
1000W	ST-MT	I	CRF	• 14020701	⇒

A0238

2000W	MT-MN	I	CRF	• 14020601	⇒ *for lamp HQI-T, MHN-LA
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Steel galvanized sheet tray.

- ⇒ With fuse.
! Complete with ignitor.

ACCESSORIES

Code	Denomination	Description
14224013	A0054 - 94	External steel cowl painted aluminium grey.
14172003	A0075 - 94	IP65 ignitor housing mounted to luminaire.
14044720	A0291/1000 - 9,5÷10,3A	Ignitor for lamps: E40 1000 W NAV-T / SON-T / HQI-T/D
14044820	A0292/2000 - 10,3A	Ignitor for lamps: E40 2000 W HQI-T / D
14044920	A0293/1000/2000	Ignitor for lamps: E40 1000 / 2000 W HPI-T

**LASER**

MT*		E40	1000W 2000W	HPI-T
MT		E40	1000W 2000W	HQI-T
MN		cable	2000W	MHN-LA
ST		E40	1000W	NAV-T/SON-T

KHA

design Silvia Paola Pennacchio

KHA are high performance bollards with contemporary aesthetics with options for zero upward light pollution, suitable for private residential and public area lighting, parks, gardens and commercial complexes.

Two products based on a design that offers a comprehensive and complementary range of luminaires.

KHA Ø155 mm standard type bollard.

KHAslim Ø90 mm lean profile light poles up to 2500 mm.

Both versions are available in AISI 316 stainless steel and aluminium finished polyester painted black or silver grey.





KHA

KHA bollards are designed to provide quality and performance offering the following features:

Lighting performance; high lighting levels, glare control, zero upward light pollution and high uniformity.

Style and engineering performance; robust design and construction, functional with clean and simple lines, discreet blending with surroundings.

Quality materials; available in extruded aluminium or AISI 316 stainless steel, suitable for marine / coastal applications, strong impact resistant UV stabilized clear polycarbonate lamp cover.

Variety and options; supplied in 550 mm and 900 mm heights, stainless steel or extruded aluminium polyester painted in a choice of colours, variety of light sources and optics, range of accessories. A high performing adaptable product suitable for a variety of installations.



Landscape, public and pedestrian areas



KHA bollards are suitable for outdoor and indoor installation providing functional and dramatic effect lighting for entrances, paths, walkways, courtyards, gardens, public area and security lighting.

KHA, and KHAslim are high performance IP66 bollards with contemporary aesthetics and options for zero upward light pollution. Manufactured from high quality corrosion resistant materials and finishes producing a high specification designed product.

The KHA bollard combines high level functional lighting and engineering with style which makes them suitable for use in harsh ambient conditions, such as coastal or marine installation, to providing an aesthetic solution on prestigious projects.

The options for a stainless steel or extruded aluminium body finished polyester painted, available in two heights, with a variety of lamps and accessories, makes the KHA bollard an adaptable product offering a solution to a variety of lighting demands. Strong die-cast ground mounting base.

Body and top manufactured in AISI 316 stainless steel, or extruded aluminium finished polyester painted grey or matt black.

Strong impact resistant (IK10) UV stabilized clear polycarbonate lamp cover.

Reflector in high purity aluminium anodized and polished.

Technopolymer control gear housing.

Conventional electromagnetic gear for mains voltage supply, KHA 42 supplied complete with electronic gear 220-240 V, 50/60 Hz. Special voltage / frequency available on request, KHA 36 luminaires are available with electronic control gear on request.

Technopolymer wiring box complete with automatic isolating terminal, which interrupts supply on opening to provide extra safety.

PG13,5 anti-tearing cable gland for Ø6-12 mm cables.

Anti-ageing silicone gaskets.

Stainless steel external fixings.

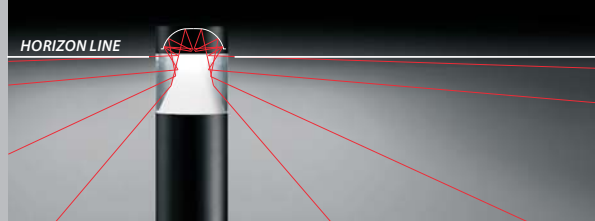
360°



360° DIFFUSED LIGHT EMISSION

KHA 42 compact fluorescent lamp versions produce 360° diffused light distribution. However in applications where a more controlled distribution is required an internal anti-glare louvre is available as an accessory A0312.

180°



180° LIGHT DISTRIBUTION BELOW HORIZONTAL.

KHA 36; 35 W metal halide and KHA 71; 70 W metal halide luminaires have a double reflector optical systems for downward light distribution below the horizontal providing:
- Comfortable glare free lighting and aesthetically appeal.



KHA 5 H 55 cm

Lampholder	W	Iicos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G12	35W	MT	C	81	I			CR	•	05150281	
G12	35W	MT	C	96	I			CR	•	05210896	
G12	70W	MT	C	81	I			CR	•	05150381	
G12	70W	MT	C	96	I			CR	•	05210996	
GX24q-3-4	26÷32W÷42W	FSMH-FSQ	C	81	I	A2	ETRC	•	05150681		
GX24q-3-4	26÷32W÷42W	FSMH-FSQ	C	96	I	A2	ETRC	•	05211296		
G12	35W	MT	C	04	I			CR	•	05151404	
G12	70W	MT	C	04	I			CR	•	05151504	
GX24q-3-4	26÷32W÷42W	FSMH-FSQ	C	04	I	A2	ETRC	•	05151804		

Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.



KHA 9 H 90 cm

Lampholder	W	Iicos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G12	35W	MT	C	81	I			CR	•	05152081	
G12	35W	MT	C	96	I			CR	•	05211396	
G12	70W	MT	C	81	I			CR	•	05152181	
G12	70W	MT	C	96	I			CR	•	05211496	
GX24q-3-4	26÷32W÷42W	FSMH-FSQ	C	81	I	A2	ETRC	•	05152481		
GX24q-3-4	26÷32W÷42W	FSMH-FSQ	C	96	I	A2	ETRC	•	05211796		
G12	35W	MT	C	04	I			CR	•	05153204	
G12	70W	MT	C	04	I			CR	•	05153304	
GX24q-3	26÷32W	FSM	C	04	I	A2	ETRC	•	05153604		

Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

04

81

96

CLASS I

IP 66

IK 10 24J

F

KG Max 8,3kg

PG13,5 Ø6÷Ø12

3x2,5mm²

CE

CLASS II

(on request)

900

550

KHA 9

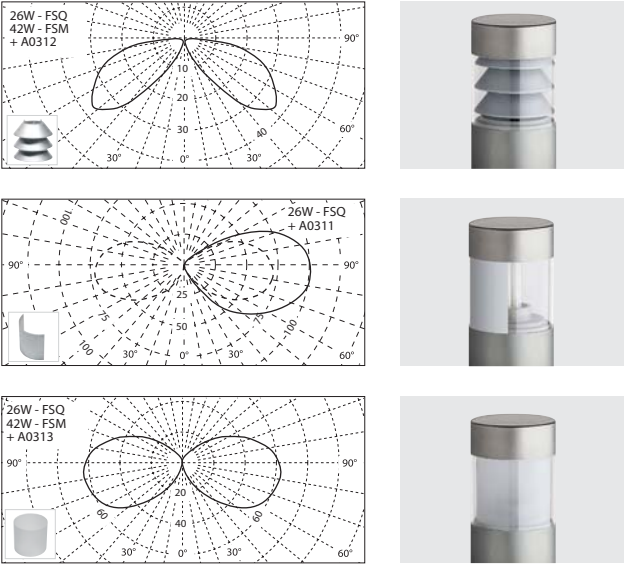
KHA 5

KHA			
MT		G12	Max 70W CDM-T/ HCI-T
FSQ		Gx24q-3	26W DULUX D-E/PLC-4P
FSMH		Gx24q-3-4	32-42W DULUX T-E/PLT-4P

ACCESSORIES



Code	Denomination	Description
14049820	A0312	Internal anti-glare louvre provides controlled light distribution below horizontal, suitable for KHA 42. Not possible for use in combination with A0313 accessory.
14049720	A0311	Internal aluminium cowl limits horizontal light output to 200°.
14049920	A0313	Internal frosted glass sleeve fits inside the clear polycarbonate lamp cover to give a diffused light distribution, suitable for KHA 42. Not possible for use in combination with A0312 accessory.
14049320	A0309	Concrete mounting adaptor with stainless steel plate and galvanised steel rods.
14002384	A0166	PG 13.5 anti-tearing cable gland for through wiring connection.



KHAslim

design Silvia Paola Pennacchio

KHAslim are contemporary high performance bollards and light poles, combining style with a robust design manufactured in high quality materials and finishing. They provide functional and dramatic effect lighting with aesthetics suitable for entrances, paths, walkways, courtyards, gardens, public area and security lighting. KHAslim high quality corrosion resistant luminaires are suitable for indoor and outdoor installations from harsh ambient conditions, such as coastal or marine environments, to providing an aesthetic solution on prestigious projects.

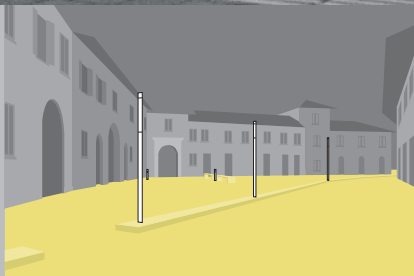
KHAslim are manufactured in stainless steel or extruded aluminium finished polyester powder coated black or Matt grey. Available in the following versions and lamp options:

KHAslim MT: Metal halide lamp version, full cut-off zero light distribution above horizontal. Lamp type; 20 W CDM-Tm. Height options; 310 mm, 930 mm and 2200 mm.

KHAslim FLUO: Compact fluorescent lamp version, 360° diffused light distribution. Lamp and height options; 10 W Dulux/DE - 350 mm height, 55/80 W Dulux/L - 2500 mm height.

KHAslim wall: mounted version, 360° wall washing light distribution. Lamp type; 25 W G9 base mains voltage tungsten halogen.





Landscape, public and pedestrian areas

Residential applications

Body and top manufactured in AISI 316 stainless steel for marine applications, or extruded aluminium finished polyester painted Matt grey or matt black.

UV stabilised high-tech technopolymer impact resistant lamp cover (PC-HT).

Reflector in high purity aluminium provides comfortable low glare light control and avoids back reflection onto lamp for improved longevity.

Technopolymer control gear housing.

2200 mm and 2500 mm height versions are complete with PA66 IP68 plug for fast easy electrical connection, suitable for 3x2,5 mm² cable Ø9-14 mm.

310 mm, 350 mm and 930 mm height versions are complete with polyamide connection box complete with M16x1.5 anti-tearing IP68 gland suitable for Ø5-10mm cables.

Electronic control gear for 220-240 V, 50/60 Hz supply. KHAwall operates on mains voltage supply.

Anti-ageing silicone gaskets.

Stainless steel external screws.

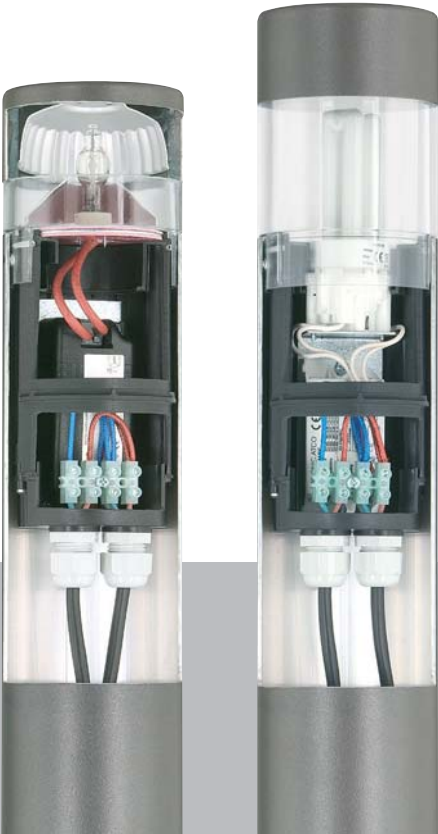
KHAslim FLUO

KHAslim compact fluorescent lamp versions are complete with a polycarbonate UV stabilized lamp cover, providing an aesthetically appealing 360° comfortable “soft” radiated light.

Available options:

KHAslim 10/35; 10 W Dulux/DE - 350 mm height.

KHAslim 55-80/250; 55/80 W Dulux/L - 2500 mm height.



55-80 / 250

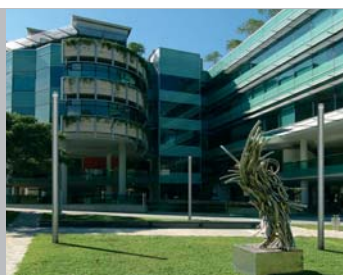
10 / 35



KHAslim FLUO	Ø mm	H mm (L)	W
10/35	90	350	10W Dulux - D/E
55÷80 / 250	90	2500	55÷80W Dulux - L
10/35		55÷80 / 250	
M16x1,5 Ø5÷Ø10		Ø9÷Ø14	3x2,5mm ²
4x2,5mm ²			

KHAslim-MT

KHAslim-MT 20W CDM-Tm metal halide, 310 mm, 930 mm and 2200 mm height options, with double reflector optical system for downward light distribution below horizontal and zero upward light pollution. High efficiency comfortable glare free light is provided through indirect light distribution and the upper faceted reflector. The high performance reflector system is designed to provide an efficient light distribution based on height and area to be illuminated. (H930 mm and 2200 mm - I_{max} 2x80°, H310 mm - I_{max} 2x85°).



KHAWall

KHAWall; wall mounted version with a shallow projection of 150 mm provides 360° wall washing effect. Available in two lamp options:

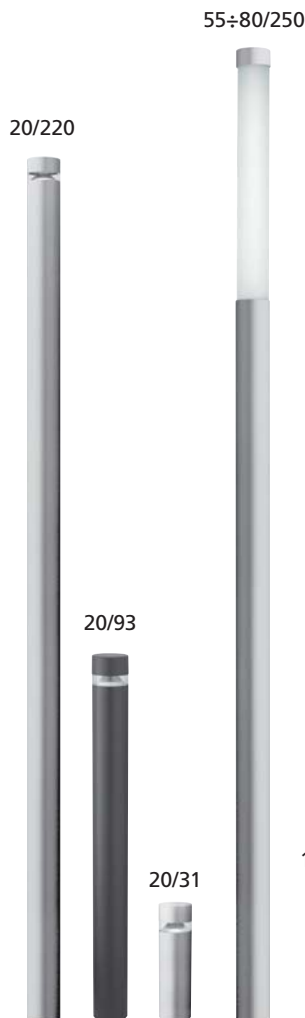
KHAWall 20; 20 W CDM-Tm supplied complete with remote electronic high frequency control gear suitable for installation up to a maximum of 3 m from luminaire.

KHAWall 25; 25 W G9 base mains voltage tungsten halogen.



KHAslim MT	Ø mm	H mm (L)	W
20 / 31	90	310	20W CDM Tm
20 / 93	90	2500	20W CDM Tm
20 / 220	90	2200	20W CDM Tm
20/31 		20 / 93÷220 	

KHAWall	Ø mm	H mm (L)	W
wall / 20	90	150	20W CDM Tm
wall / 25	90	150	25W Halopin
wall / 20 		wall / 25 	



20/93

20/31

10/35

**KHAslim MT 20W - CDM-Tm**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
PGJ5	20W	MC		C	81	II	ETRC		•	05192681	H 31 cm
PGJ5	20W	MC		C	96	II	ETRC		•	05192596	H 31 cm
PGJ5	20W	MC		C	81	II	ETRC		•	05192981	H 93 cm
PGJ5	20W	MC		C	96	II	ETRC		•	05192896	H 93 cm
PGJ5	20W	MC		C	81	II	ETRC		•	05193281	! H 220 cm
PGJ5	20W	MC		C	96	II	ETRC		•	05193196	! H 220 cm
PGJ5	20W	MC		C	04	II	ETRC		•	05192704	H 31 cm
PGJ5	20W	MC		C	04	II	ETRC		•	05193004	H 93 cm
PGJ5	20W	MC		C	04	II	ETRC		•	05193304	! H 220 cm



Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.
! Versions for 2200 mm heights are supplied without fixing base. Ground mounting accessories A0373 and A0370 are available to order.

KHAslim FLUO 10W DULUX-D-E / 55-80W DULUX-L

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G24q-1	10W	FSQ		C	81	II	ETRC	A3		05192081	H 35 cm
G24q-1	10W	FSQ		C	96	II	ETRC	A3		05191996	H 35 cm
2G11	55-80W	FSD		C	81	II	ETRC		•	05194181	! H 250 cm
2G11	55-80W	FSD		C	96	II	ETRC		•	05194096	! H 250 cm
G24q-1	10W	FSQ		C	04	II	ETRC	A3		05192104	H 35 cm
2G11	55-80W	FSD		C	04	II	ETRC		•	05194204	! H 250 cm



Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.
! Versions for 2500 mm heights are supplied without fixing base. Ground mounting accessories A0373 and A0370 are available to order.

KHAslim 20W CDM-Tm / 25W Halopin

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G9	25W	HSGST		C	04	II				01036127	! ¹
G9	25W	HSGST		C	81	II				01036081	! ¹
G9	25W	HSGST		C	96	II				01035996	! ¹
PGJ5	20W	MC		C	04	II	ETRC			03003827	! ²
PGJ5	20W	MC		C	81	II	ETRC			03003781	! ²
PGJ5	20W	MC		C	96	II	ETRC			03003696	! ²



!² Class I remote gear versions are supplied with electronic control gear box and 3m cable for connection to luminaire. The remote gear box should be installed in a suitable location at a maximum distance of 3 m from the luminaire.
!¹ Mains voltage tungsten halogen version for max. 250 V, 50/60 Hz supply (Class II).

04 81 96

CLASS II



IP 66

IK 09
10J

KG

MT: Max 8,6 kg
FLUO: Max 9,4 kg
WALL: Max 1,9 kg

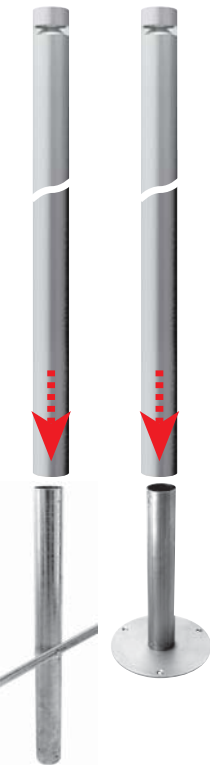
**KHAslim**

MT		PGJ5	20W	CDM-TM
HSGST		G9	25W	HALOPIN/CLICKLINE
FSQ		Gx24q-1	10W	DULUX D-E/PL-C
FSD		2G11	55±80W	DULUX-L/PL-L

ACCESSORIES



Code	Denomination	Description
14071120	A0370	AISI 316 stainless steel floor installation base (suitable only for models 220/250 cm height).
14071220	A0373	Hot dipped galvanised fixing base for recessing into concrete (suitable only for models 220/250 cm height).
14071320	A0372	Galvanized steel rods with AISI 304 plate. Floor recessed anchorage unit (only for models 93 cm height).
14073220	A0386	"Soft" glass for mounting inside the PC lamp cover provides a more diffused light emission.
14066020	A0360	M16x1,5 anti-tearing cable gland for through-wiring.



KHASlim H = 220 - 250 cm
Codes for models with 220 cm to 250 cm height do not include the base plate, which must be ordered separately and is available in two versions:

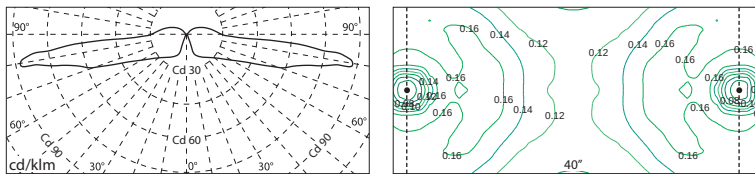
- 14071220 – A0373: Hot dipped galvanised fixing base (requires a 400 mm recess into concrete) remains hidden within the luminaire.
- 14071120 – A0370: Stainless steel floor installation base, complete with fixing accessories.



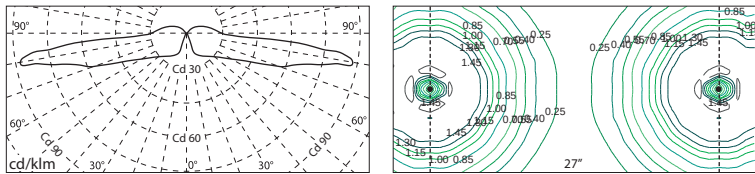
KHASlim H = 31 - 35 - 93 cm
Codes for models with 31 cm to 93 cm height are inclusive of a die cast aluminium floor fixing base which remains hidden within the luminaire.

KHAslim

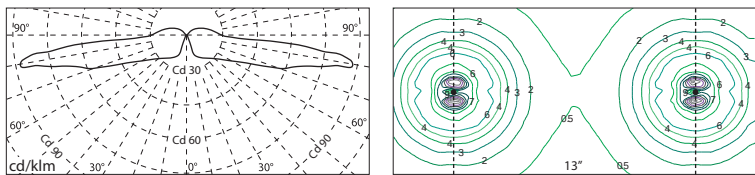
KHA Slim MT
20W
h = 86"-220 cm



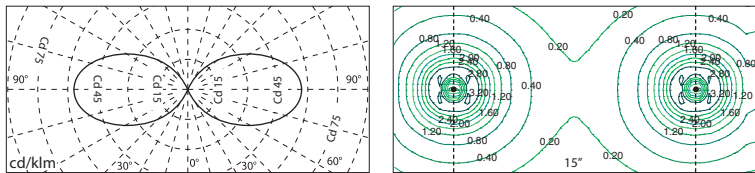
KHA Slim MT
20W
h = 36"-93 cm



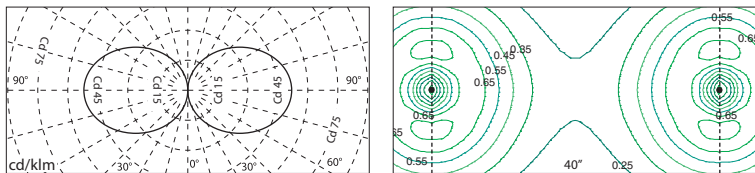
KHA Slim MT
20W
h = 12"-31 cm



KHA Slim FLUO
10W
h = 14"-35 cm

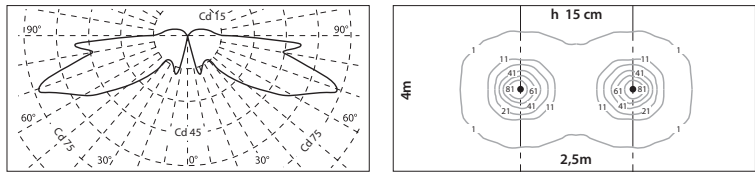


KHA Slim FLUO
55W
h = 95"-240 cm



KHAWall

KHAWall
20W
h = 220 cm







HEDO

design Silvia Paola Pennacchio

HEDO contemporary pole top luminaires suitable for residential and public area lighting, gardens, parks, paths / walkways, commercial complexes and parking lots. Die-cast aluminium housing finished grey or stainless steel bonded.

Main features:

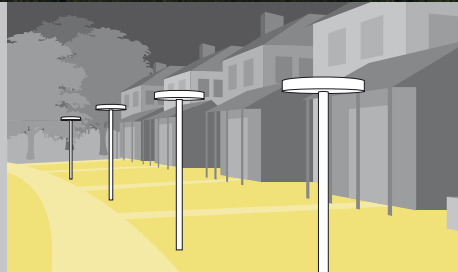
- Energy efficient luminaire providing high performance and efficacy with good uniformity and zero upward light pollution.
- Aesthetic design with fast retrofit fixing, onto existing pole installations, replacing old inefficient light polluting luminaires.



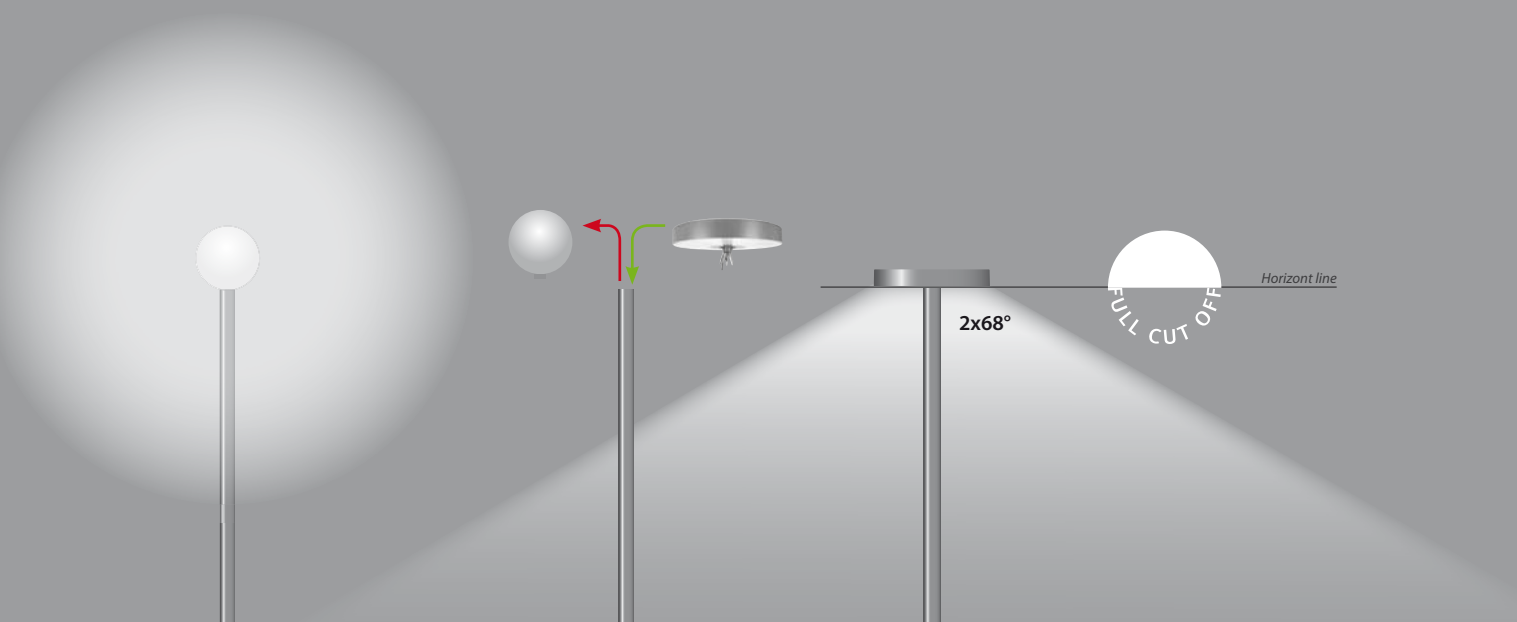




Landscape, public and pedestrian areas



Residential applications



REPLACEMENT OF POLLUTING LUMINAIRES

HEDO full cut-off optics are designed to comply with regulations in areas sensitive to upward light pollution.

Broad distribution ($\text{Imax}/2 = 2 \times 68^\circ$) circular light emission allows for uniformly illuminating extensive areas.

The internal prism texture of the diffuser shields direct view of the LED to offer the observer a high degree of visual comfort.

HEDO

HEDO mounts new generation high-efficiency LED light sources of up to 125 lm/W nominal efficacy, powered with electronic drivers suitable for nominal voltages ranging from 220-240 V 50/60 Hz. Two power levels are offered: with 18 LED at 22W and 36 LED at 42W overall. Three white LED color temperatures:: 3000 K, 4200 K and 6000 K.

HEDO luminaires mount high-efficiency light sources of up to 83 lm/W, powered by Class A2 electronic reactors.

They can house up to three T5 circular fluorescent lamps: 1 x 22 W + 1 x 55 W (or 40 W) + 1 x 60 W.

As a result, the installed power varies greatly between 22 W to 137 W, as does the luminous flux - from 1800 to 11000 lm.

During the night, when lighting requirements diminish, the number of lamps turned on can be reduced, which ensures significant energy saving.

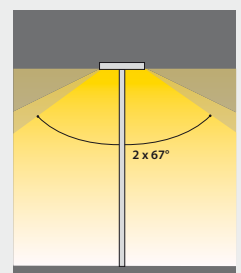


DARK SKY

HEDO full cut-off optic is designed to comply with regulations in areas sensitive to upward dark sky.

Broad distribution ($I_{\max}/2 = 2 \times 67^\circ$) with good uniformity provides an efficient spacing for area lighting.

The clear polycarbonate diffuser with internal prisms obscures the lamp from direct view whilst providing high light transmission and visual comfort.

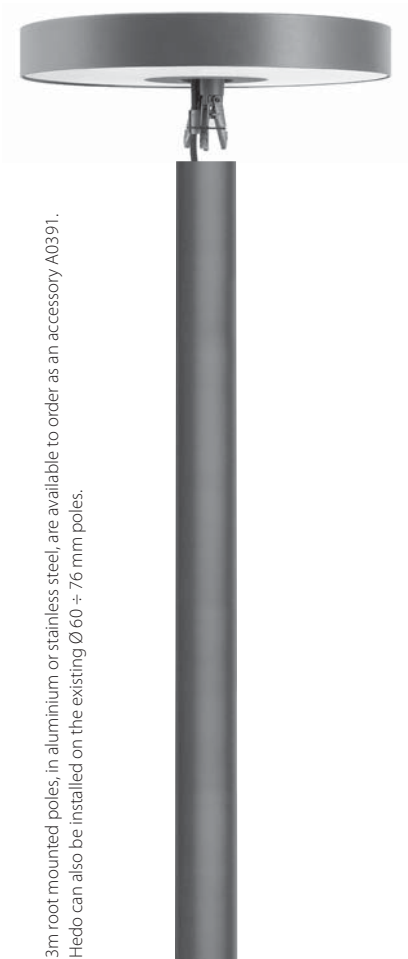


Die cast aluminium pole head with galvanised steel expandable / retractable anchoring device.
 Die cast aluminium housing finished Akzo Nobel matt 900 grey (96), matt black (81) or AISI 316 stainless steel sheet bonded for Inox versions (04).
 U.V. stabilised clear polycarbonate diffuser.
 High-thick aluminium heat sink.
 High purity aluminium anodised and polished reflector.
 Electronic ballasts class A2, 220÷240 V / 50-60 Hz.
 Anti-ageing silicone rubber gaskets.
 Stainless steel external screw fixings.



INSTALLATION

HEDO luminaires are suitable for pole top mounting on Ø60-76 mm poles.
 Pole head anchoring device, available as an accessory, has a safe and fast expansion system from a non-visible single point screw.
 Automatic isolating terminal interrupts supply when cover is opened to provide added safety.



HEDO LED - 18 LED - 3000 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.18 led	18W		3000	AL	81	II	ETRC		•	06032781	
n. 18 led	18W		3000	AL	96	II	ETRC		•	06032996	
n. 18 led	18W		3000	I	04	II	ETRC		•	06033104	

HEDO LED - 18 LED - 4200 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 18 led	18W		4200	AL	81	II	ETRC		•	06038881	
n. 18 led	18W		4200	AL	96	II	ETRC		•	06039096	
n. 18 led	18W		4200	I	04	II	ETRC		•	06039204	

HEDO LED - 18 LED - 6000 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 18 led	18W		6000	AL	81	II	ETRC		•	06028681	
n. 18 led	18W		6000	AL	96	II	ETRC		•	06028796	
n. 18 led	18W		6000	I	04	II	ETRC		•	06028804	

HEDO LED - 36 LED - 3000 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 36 led	36W		3000	AL	81	II	ETRC			06032881	
n. 36 led	36W		3000	AL	96	II	ETRC			06033096	
n. 36 led	36W		3000	I	04	II	ETRC			06033204	

HEDO LED - 36 LED - 4200 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 36 led	36W		4200	AL	81	II	ETRC			06038981	
n. 36 led	36W		4200	AL	96	II	ETRC			06039196	
n. 36 led	36W		4200	I	04	II	ETRC			06039304	

HEDO LED - 36 LED - 6000 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 36 led	36W		6000	AL	81	II	ETRC			06028381	
n. 36 led	36W		6000	AL	96	II	ETRC			06028496	
n. 36 led	36W		6000	I	04	II	ETRC			06028504	

HEDO - 55W

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
2Gx13	55W	FC		C	81	II	ETRC	A2	•	05194681		•
2Gx13	55W	FC		C	96	II	ETRC	A2	•	05194996		•
2Gx13	55W	FC		C	04	II	ETRC	A2	•	05195204		•

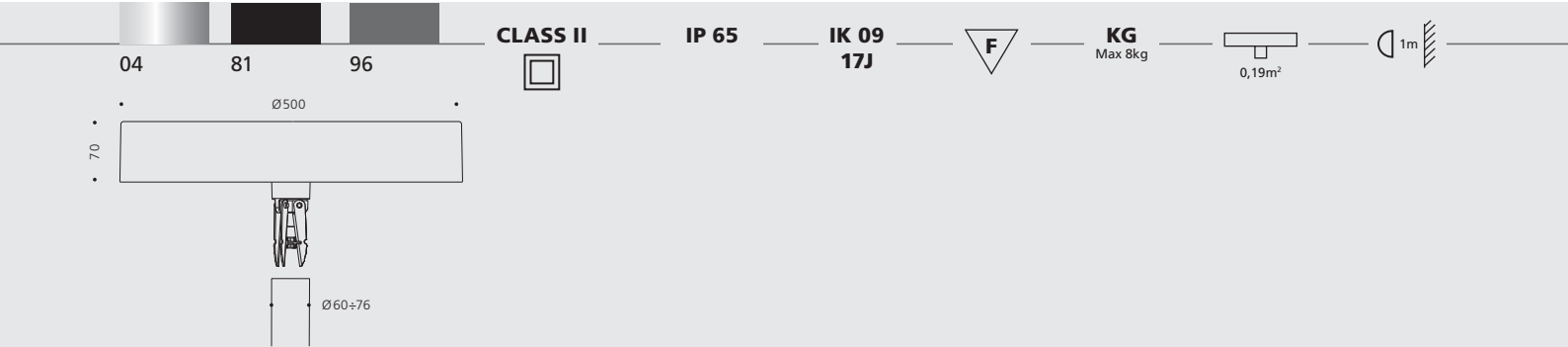
HEDO - 55-60 W

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
2Gx13	55-60W	FC		C	81	II	ETRC	A2	•	05194781		•
2Gx13	55-60W	FC		C	96	II	ETRC	A2	•	05195096		•
2Gx13	55-60W	FC		C	04	II	ETRC	A2	•	05195304		•

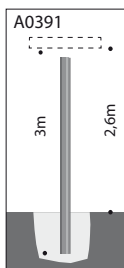
HEDO - 22-55-60 W

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
2Gx13	22-55-60W	FC		C	81	II	ETRC	A2	•	05194881		•
2Gx13	22-55-60W	FC		C	96	II	ETRC	A2	•	05195196		•
2Gx13	22-55-60W	FC		C	04	II	ETRC	A2	•	05195404		•

Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.



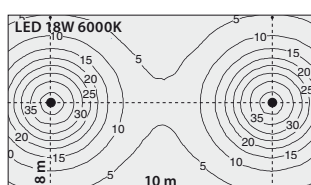
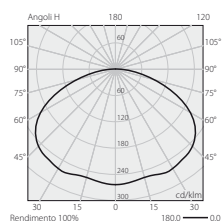
ACCESSORIES



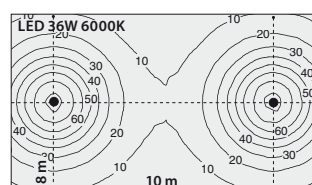
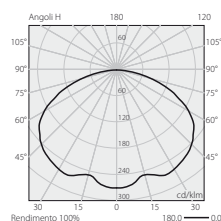
Code	Denomination	Colour	Description
14074981	A0391	81	Ø76mm x H 3000 mm (2700 mm above ground) root mounting poles in aluminium finished black (81).
14075096	A0391	96	Ø76mm x H 3000 mm (2700 mm above ground) root mounting poles in aluminium finished quartz grey (96).
14075104	A0391	04	Ø76mm x H 3000 mm (2700 mm above ground) root mounting poles in stainless steel (04).
14083120	A0414	04	AISI 316 stainless steel floor installation base.
14074820	A0390		5 poles 2,5 mm² automatic isolating terminal suitable for separate lamp circuit switching.
14076320	A0393		Supplement for factory fitted 4 pole automatic isolating terminal.

HEDO LED

HEDO LED 36 W 6000K

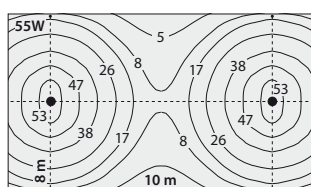
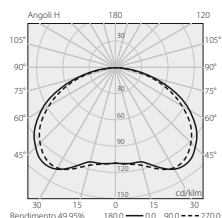


HEDO LED 18 W 6000K

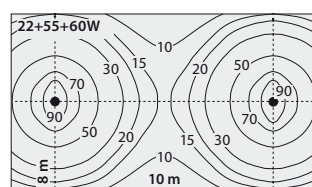
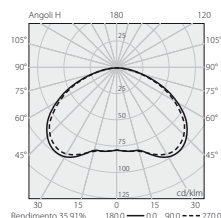


HEDO

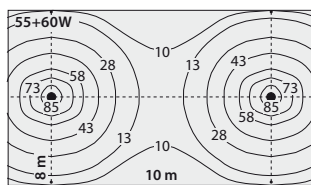
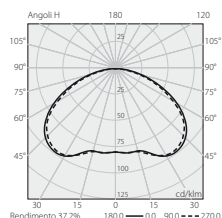
HEDO 55W



HEDO 22+55+60



HEDO 55+60



Ø9±Ø13



2x2,5mm²



HEDO

LED  N° 18-18WLED  N° 36-36WFC  Max 60W LUMILUX T5 FCFC  Max 55W LUMILUX T5 FCFC  Max 22W LUMILUX T5 FC



OIKOS

design Silvia Paola Pennacchio

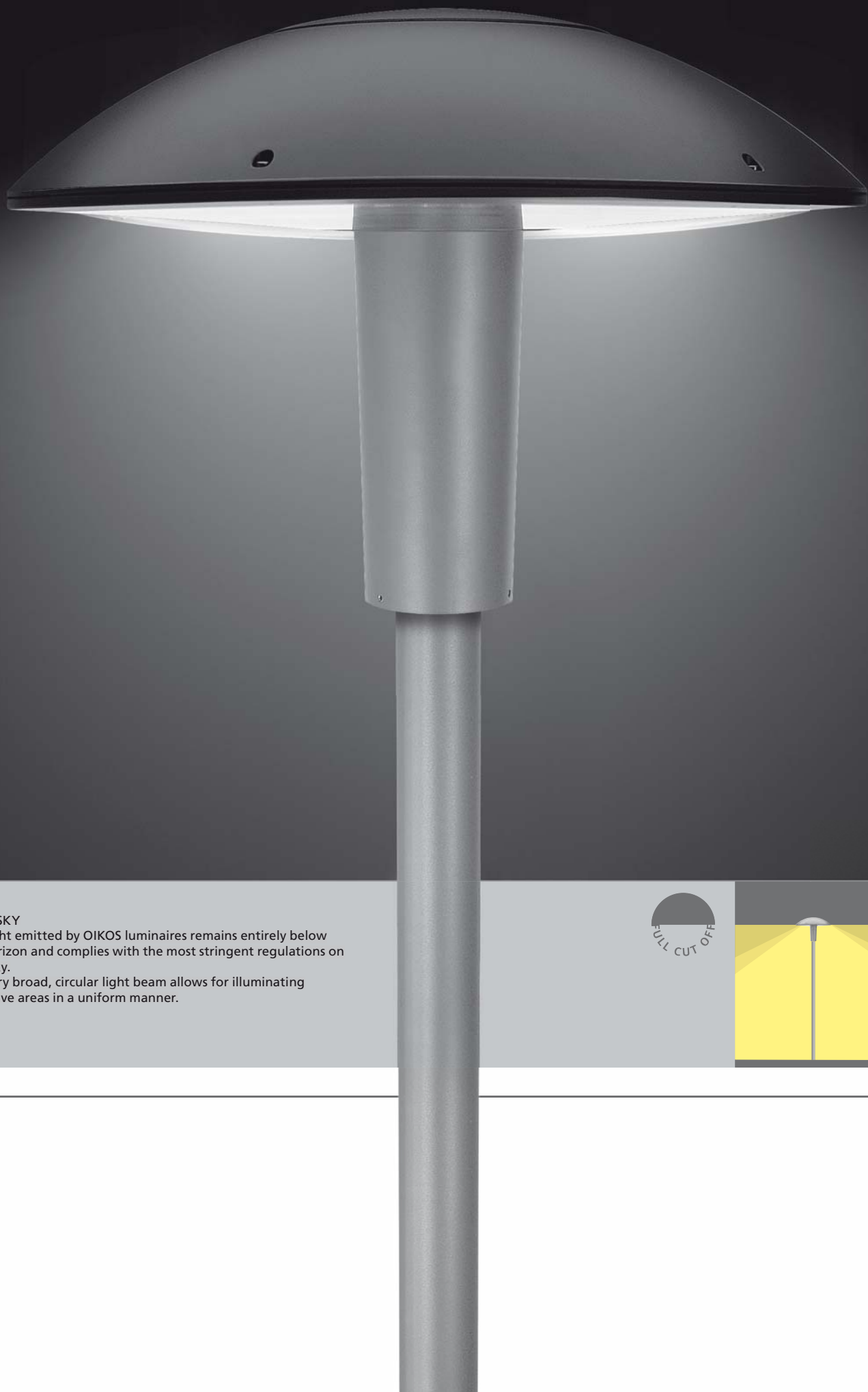
OIKOS luminaires are designed for public lighting and urban architectural lighting applications.

They are pole-top luminaires that aim to offer:

- high-performance, comfortable, uniform and flexible illumination without any light pollution;
- a wide range of light sources encompassing the latest lamp types up to 150W power, and high-power high-performance LED;
- a sedate, functional design that helps the luminaires to blend into any installation context;
- quick and safe installation.

OIKOS, therefore, constitutes a modern and effective solution for illuminating pedestrian areas, squares, parking lots, etc.

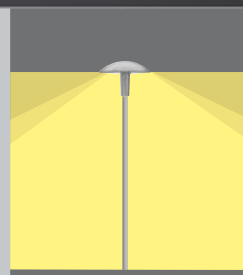




DARK SKY

The light emitted by OIKOS luminaires remains entirely below the horizon and complies with the most stringent regulations on dark sky.

The very broad, circular light beam allows for illuminating extensive areas in a uniform manner.



OIKOS

INSTALLATION

OIKOS is suitable for pole-top installation on Ø 60÷76 mm poles. The luminaire is secured to the pole with three stainless steel grub screws inclusive of locking system. An aesthetic reducer (A0511/96) is available as an accessory for Ø 60 mm poles, and allows for closing the mouth of the pole so as to improve the aesthetic appearance of the attachment zone.

The electrical connection is performed quickly and safely from the outside of the luminaire, by means of a highly practical quick-fit plug-socket connector.

The OIKOS LED versions are thus defined by their extremely rapid and simplified installation, as - thanks to the incorporated light source - the luminaire does not need to be opened to make it operate.

Upon opening the cover, an automatic disconnect switch cuts off the power supply so that maintenance operations can be performed in an entirely safe manner.

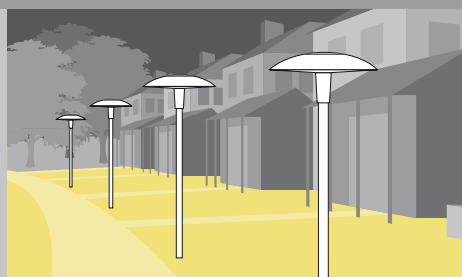
The very broad circular light beam emitted by OIKOS luminaires allows for illuminating extensive areas in a uniform manner.

The special construction features and arrangement of the light sources, in particular the versions with lamp where the light source is fully inserted and concealed in the luminaire body, allow for illuminating without any light pollution.

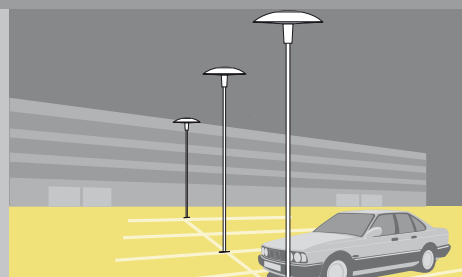
Moreover, the complete range of light sources (lamps, new generation LED with high luminous efficacy) coupled with the possibility of inserting - on request - power reduction and remote control systems, make OIKOS luminaires ideal for use in energy saving systems.



Landscape, public and pedestrian areas



Residential applications



Parking areas



An aluminium shade (A0513/AL), designed to alter the aesthetic appearance of OIKOS, can be ordered together with the luminaire as an accessory and is supplied already mounted.

The visor can be customised on request with different colours to help OIKOS blend into the various urban decor contexts.



OIKOS

Anti-corrosion die-cast aluminium body and cover, sandblasted, phosphor-chromated and coated with sandblasted anthracite grey polyester powders. Ultra-pure polished and oxidised aluminium reflectors, designed to optimise the light distribution. UV-stabilised transparent polycarbonate screen capable of withstanding the incandescent wire test at 850°C. Ageing-resistant high-compensation silicone gaskets for body and cover.

Expanded silicone foam gasket with high compensating power for diffuser.

The cover opens through a practical ¼ turn galvanised steel device with a supplementary anti-corrosion treatment, which can be easily gripped and quickly opened without the aid of tools and remains concealed in the luminaire's lines.

Automatic disconnect switch that cuts off the circuit phase for performing quick maintenance in total safety.

Wiring plate detachable without the aid of tools by means of an "easy extraction" handle system.

Connection to the mains power from the outside of the luminaire through quick-fit plug-socket connector, IP66, made of technopolymer with integrated pull-out resistant cable gland for H07RN-F 2x1.5 / 2x2.5 mm² Ø 10÷14 mm cables.

Stainless steel external screws.

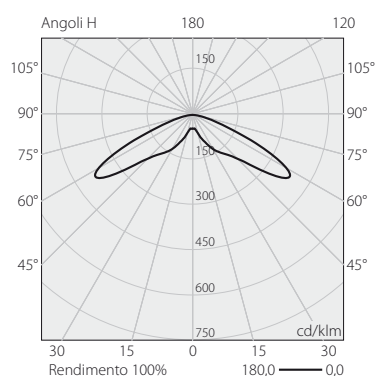
Modelled extruded aluminium LED (OIKOS LED) heat dissipater designed for maximising LED heat dissipation.

LED light source constituted by the combination of specific modules. Each LED is equipped with a safety device (standard feature) capable of bypassing it in case of malfunctions, thereby guaranteeing the flow of current, the correct powering of the successive modules and the continuation of the lighting service.

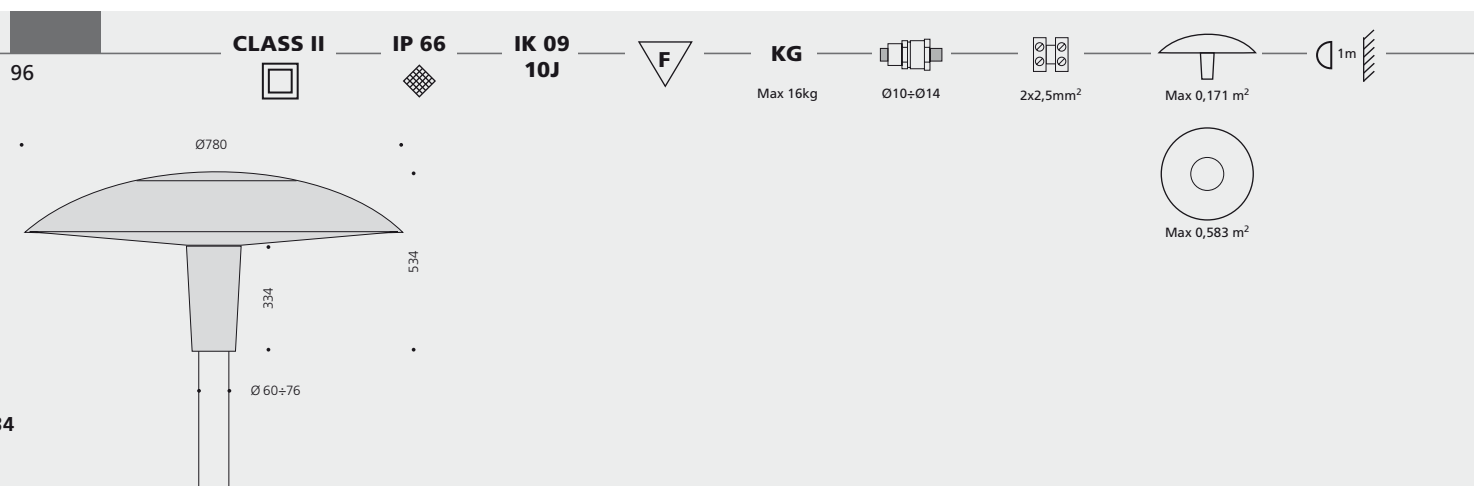
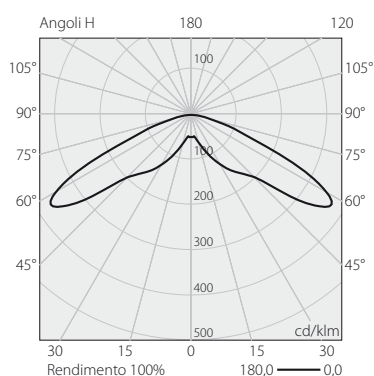
LED optic consisting of the combined action of various high light transmission technopolymer lenses and a luminous flux recuperator made of ultra-pure polished and oxidised aluminium.



OIKOS LED / 72W - 6000 K



OIKOS LED / 36W - 6000 K



**OIKOS LED / 36W - 6000 K - 4200 K - 3000 K**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosφ ≥ 0,9	Code	Notes
n. 36 led	36W		6000	C	96	II	ETRC		•	06038296	
n. 36 led	36W		4200	C	96	II	ETRC		•	06042596	
n. 36 led	36W		3000	C	96	II	ETRC		•	06038396	

OIKOS LED / 72W - 6000 K - 4200 K - 3000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosφ ≥ 0,9	Code	Notes
n. 72 led	72W		6000	C	96	II	ETRC		•	06038496	
n. 72 led	72W		4200	C	96	II	ETRC		•	06042696	
n. 72 led	72W		3000	C	96	II	ETRC		•	06038596	

OIKOS

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosφ ≥ 0,9	Code	Notes
G12	35W	MT		C	96	II	CR		•	05283896	
G12	70W	MT		C	96	II	CR		•	05283996	
G12	150W	MT		C	96	II	CR		•	05284096	
Gx12-1	50W	STH		C	96	II	ETRC		•	05284996	
Gx12-1	100W	STH		C	96	II	ETRC		•	05285096	
PGZ12	90W	MT		C	96	II	ETRC		•	05284196	
PGZ12	140W	MT		C	96	II	ETRC		•	05284296	
E27	70W	ME		C	96	II	CR		•	05284396	
E27	100W	ME		C	96	II	CR		•	05284496	
E27	150W	ME		C	96	II	CR		•	05284596	
E27	50W	ST		C	96	II	CR		•	05285196	
E27	70W	ST		C	96	II	CR		•	05285296	
E40	100W	ST		C	96	II	CR		•	05285396	
PG12-1	35W	STH		C	96	II	CR		•	05284696	
PG12-1	50W	STH		C	96	II	CR		•	05284796	
PG12-1	100W	STH		C	96	II	CR		•	05284896	

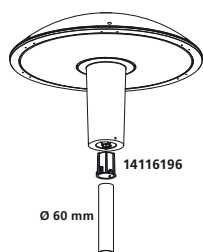
Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

ACCESSORIES

Code	Denomination	Colour	Description
14116196	A0511	96	Reducing sleeve for Ø60mm dia poles.
14116220	A0512/2A 35÷90W		Supplement for factory fitted fuse holder and fuse. To be ordered as a separate item along with the luminaire , according to specific lamp version.
14116320	A0512/4A 100÷150W		Supplement for factory fitted fuse holder and fuse. To be ordered as a separate item along with the luminaire , according to specific lamp version.
14116496	A0513/AL	96	Supplement for aluminium cowl.

An aluminium shade (A0513/AL) designed to give OIKOS units a varied aesthetic quality is available to be ordered as a separate item with the unit and delivered pre-mounted.

The shade can be customised on request with different colours to best integrate OIKOS in all urban environments.

**OIKOS LED**

LED		n. 36 LED - 36W
LED		n. 72 LED - 72W

OIKOS

ST		E27	50W	NAV-T Super/SON-T Plus
STH		E40	100W	NAV-T Super/SON-T Plus
STH		PG12-1	35-50-100W	SDW-T
STH		Gx12-1	50-100W	SDW-TG Mini
MT		G12	35-70-150W	CDMT/HQI-T/HCI-T
MT		PGZ12	90-140W	COSMOWHITE/CPO-TW
ME		E27	50-150W	HQI-E/CDO-ET

OLA

design Roberto Fiorato

Aesthetically designed exterior pole top and wall mounted luminaires for urban lighting, manufactured in anti-corrosive die-cast aluminium with pressed toughened glass cover. OLA is designed to comply with the recommendations UNI 10819 for glare control and upward light pollution to reduce the effect of sky glow.

The OLA luminaires are available with symmetrical, asymmetrical and road lighting optics.

Suitable for HID lamps; metal halide and high pressure sodium. A range of stainless steel or painted aluminium poles are available from 3.5 m to 6.0 m heights.

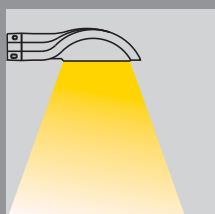
A variety of mounting accessories are offered for back to back pole top mounting, mid-pole fixing, and wall mounting. Isolating terminal connector disconnects supply on opening of luminaire for safety during maintenance.

The gear tray / front cover assembly hinges down from luminaire and can easily be detached for maintenance.

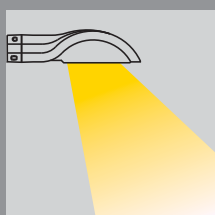
OLA is suitable for lighting pedestrian walkways, parking areas and commercial / retail complexes.



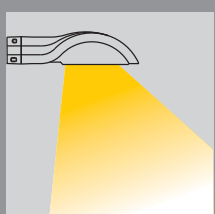




Symmetric reflector
OLA / S



Asymmetric reflector
OLA / A

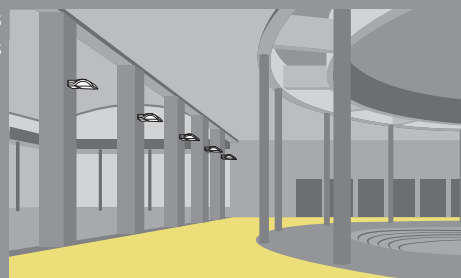


Roadway optic
OLA / SR
(250W max)

Landscape, public and
pedestrian areas



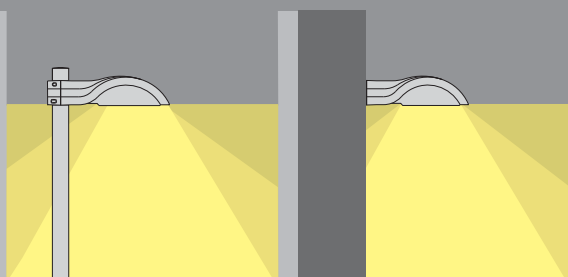
Commercial centres
and interiors



Parking areas



Streets



OLA is designed to comply with the
recommendations for glare control and upward
dark sky to reduce the effect of sky glow.



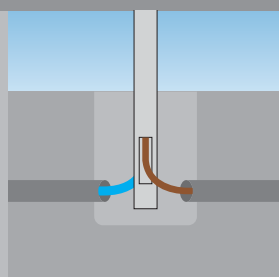
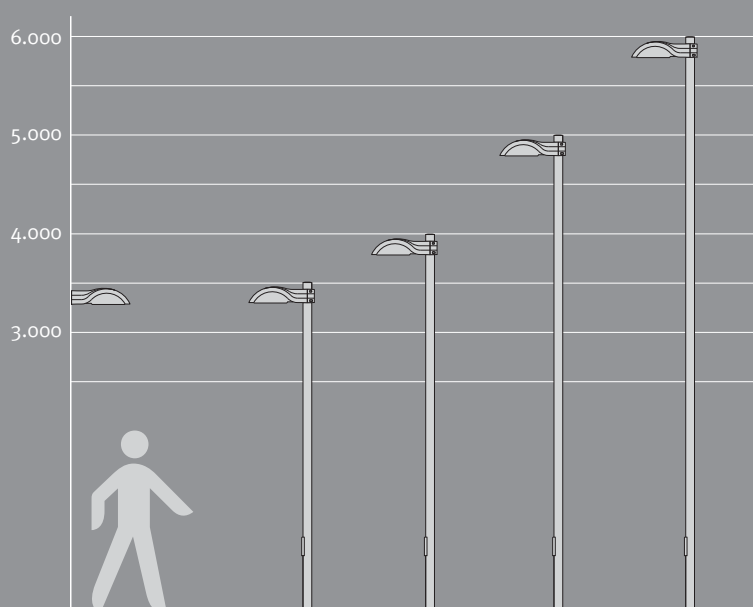
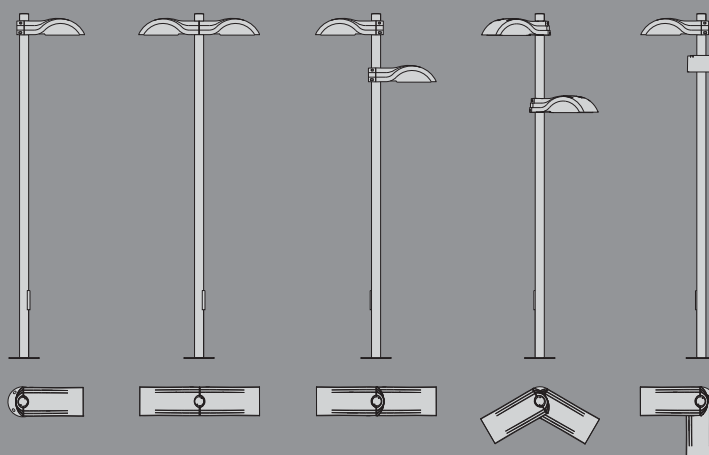
The quick opening of optical compartment is obtained by one quarter turn loosening of a single fastener. When optical compartment is opened, the electrical compartment is automatically disconnected from mains, allowing a safe maintenance.



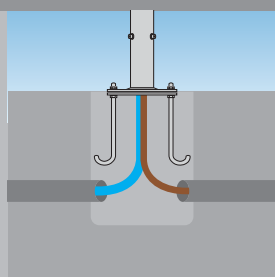
One piece gear tray / cover assembly hinges to main body of luminaire.



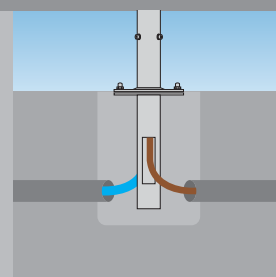
The gear tray / front cover assembly can easily be detached for maintenance.



Root mounted (INT) secured by concrete.



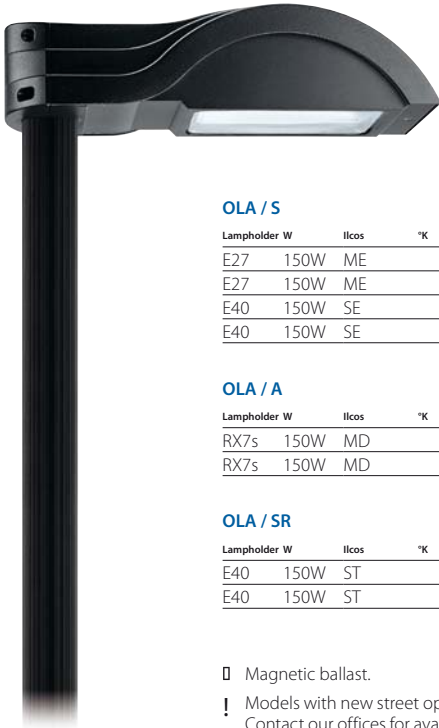
Flange mounting (FT) with anchor bolts secured by concrete. the baseplate, which also acts as a template, ensures a level fixing



Flange plate fixing with root (FT) secured by concrete. For correct concrete base dimensions refer to information pages on poles

OLA

Outdoor pole top and wall mounted luminaire.
Aluminium die-cast anti-corrosive body and cover frame.
Pressed high impact glass cover.
Die-cast anti-corrosive pole and wall mounting bracket accessories, to suit poles Ø60 mm and Ø90 mm.
Anodised aluminium reflector.
Self-extinguishing V0 class, 960° glow wire tested, control gear tray. Isolating terminal connector disconnects supply on opening of luminaire for safety during maintenance.
Easy quick access one piece gear tray / cover assembly. Class II.
A variety of mounting accessories are offered for back to back pole top mounting, mid-pole fixing to desired height, and wall mounting (mounting accessories to be ordered separately).
Conventional magnetic ballast gear for fluorescent versions are complete with thermal cut-out device to EN 60598-1:2000.
Designed to comply with the recommendations for glare control and upward light pollution to reduce the effect of sky glow.
Rx7s lamp version complete with high purity 99.85% aluminium asymmetrical reflector.



OLA / S

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
E27	150W	ME		S	81	II	CR		•	05259281	□	•
E27	150W	ME		S	96	II	CR		•	05259396	□	•
E40	150W	SE		S	81	II	CR		•	05259581	□	•
E40	150W	SE		S	96	II	CR		•	05259696	□	•

OLA / A

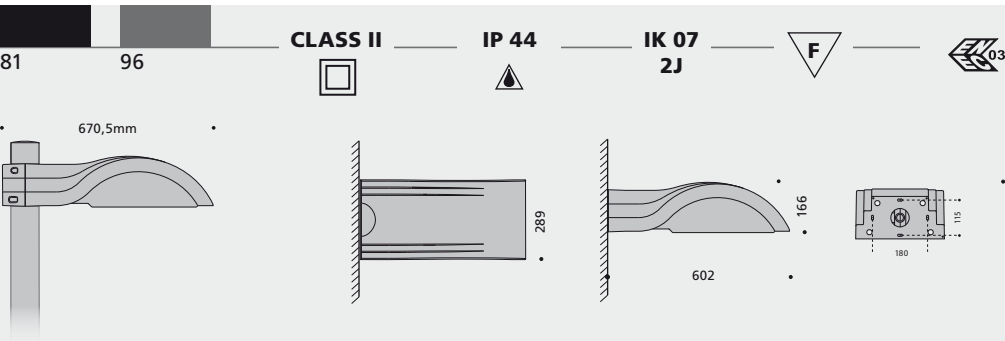
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
RX7s	150W	MD		A	81	II	CR		•	05260781	□	•
RX7s	150W	MD		A	96	II	CR		•	05260896	□	•

OLA / SR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
E40	150W	ST		SR	81	II	CR		•	05290081	□ !	•
E40	150W	ST		SR	96	II	CR		•	05290196	□ !	•

- Magnetic ballast.
- ! Models with new street optics. Contact our offices for availability.

Range of poles for OLA luminaires manufactured in stainless steel or aluminium.
Aluminium door to wiring compartment containing technopolymer V0-UL94 wiring tray with switched fuse holder and 16mm² 5-pole terminal block suitable for looping and three phase connection.
CLASS II double insulated luminaires do not require earth connection.
Poles can be earthed from within the wiring compartment.
Poles with base flange suitable for installing with 14099404 root mounting accessory with flange plate.
Extruded aluminium poles; Ø90 mm 2,5 mm thickness available in 3.5m and 4.0m flange mounted versions or 3.5 m+0.5 m and 4 m+0.5 m root mounted.
Flange mounted versions are supplied complete with Ø300 mm flange plated welded to pole.
Pole and flange are pre-treated and polyester painted to provide a protective surface layer from UV and atmospheric conditions.
Stainless steel (304) cylindrical poles; Ø90 mm 2,5 mm thickness available in 3.5m, 5.0m and 6.0m flange mounted versions or 5.0 m+1.0 m and 6 m+1.0 m root mounted.
Flange mounted versions are supplied complete with Ø300 mm stainless steel flange plated welded to pole
Additional earth connection located near to flange.



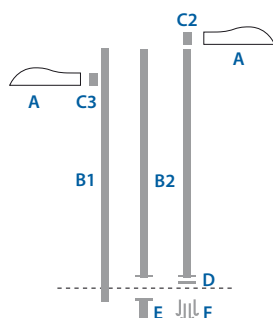
COMPLETE UNIT

1A+1B1+1C = 3 codes

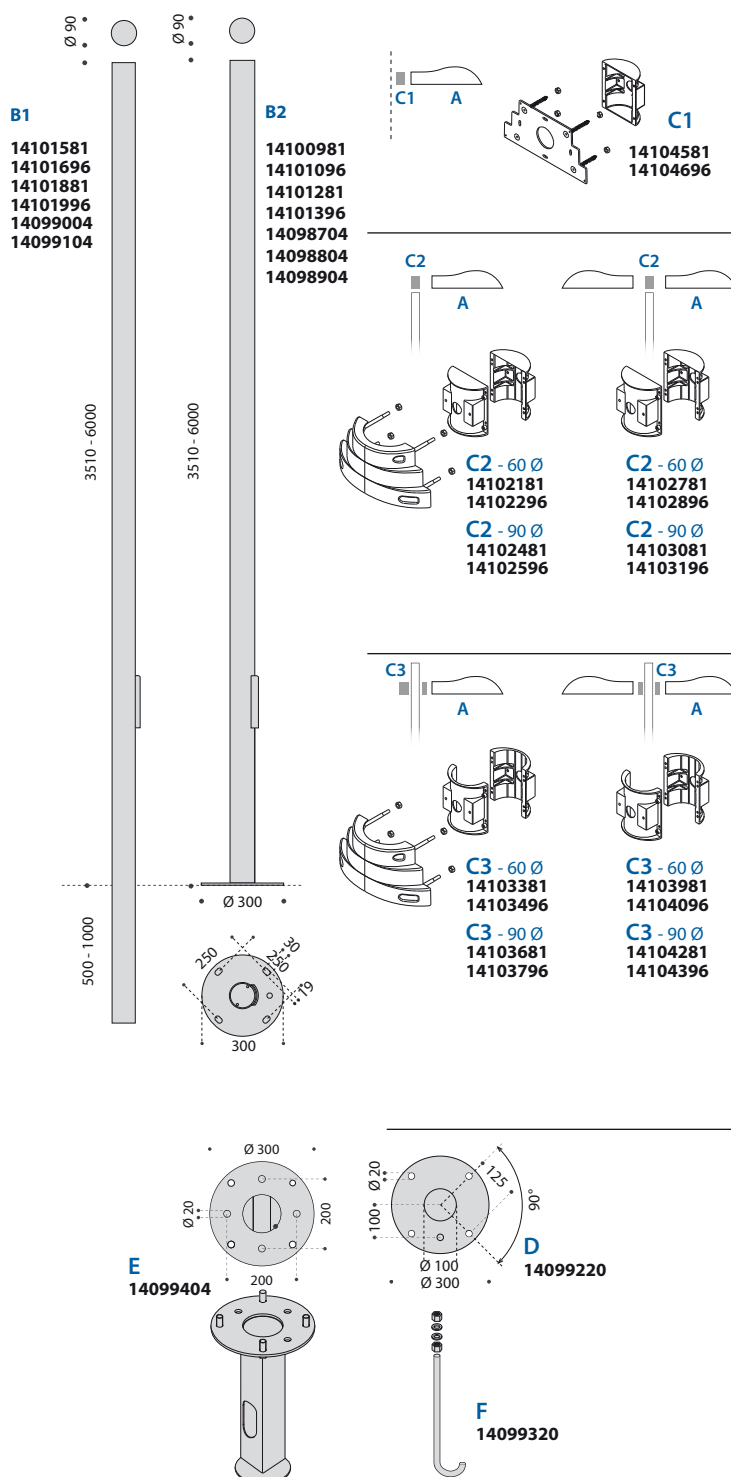
1A+1B2+1C+1E = 4 codes

1A+1B2+1C+1D+4F = 8 codes

	COMPONENTS
A	luminaire
B1	pole INT
B2	pole FT
C	mounting kits
D	flange plate fixing with root
E	flange plate
F	fixing rod



	Code	Denomination	Colour	Description
B2	14100981	A0485/3,5	81	Pole Ø 90 mm F.T. 3,5 m c/w flange
	14101096	A0485/3,5	96	
	14101281	A0485/4	81	Pole Ø 90 mm F.T. 4 m c/w flange
	14101396	A0485/4	96	
B1	14101581	A0486/3,5+0,5	81	Pole Ø 90 mm INT. (buried) 3,5+0,5 m
	14101696	A0486/3,5+0,5	96	
	14101881	A0486/4+0,5	81	Pole Ø 90 mm INT. (buried) 4+0,5 m
	14101996	A0486/4+0,5	96	
C2	14102181	A0487-D60	81	Top mount kit-single Ø 60
	14102296	A0487-D60	96	
	14102481	A0487-D90	81	Top mount kit-single Ø 90
	14102596	A0487-D90	96	
	14102781	A0488-D60	81	Top mount kit-double Ø 60
	14102896	A0488-D60	96	
	14103081	A0488-D90	81	Top mount kit-double Ø 90
	14103196	A0488-D90	96	
B1	14098704	A0474/3,5	04	Pole Ø 90 F.T. 3,5 m c/w flange
	14098804	A0474/5	04	Pole Ø 90 F.T. 5 m c/w flange
	14098904	A0474/6	04	Pole Ø 90 F.T. 6 m c/w flange
	14099004	A0475/5+1	04	Pole Ø 90 mm INT. (buried) 5+1 m
B2	14099104	A0475/6+1	04	Pole Ø 90 mm INT. (buried) 6+1 m
	14103381	A0489-D60	81	Side mounting kit-single Ø 60 mm
	14103496	A0489-D60	96	
	14103681	A0489-D90	81	Side mounting kit-single Ø 90 mm
C3	14103796	A0489-D90	96	
	14103981	A0490-D60	81	Side mount kit-double Ø 60
	14104096	A0490-D60	96	
	14104281	A0490-D90	81	Side mount kit-double Ø 90
C1	14104396	A0490-D90	96	
	14104581	A0491	81	Wall mount kit
	14104696	A0491	96	
D	14099220	A0476		Flange plate/1 F.T. post
F	14099320	A0477		Fixing rod Ø 18 X 400
E	14099404	A0478	04	Flange plate fixing with root



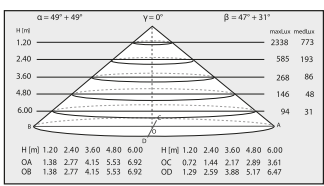
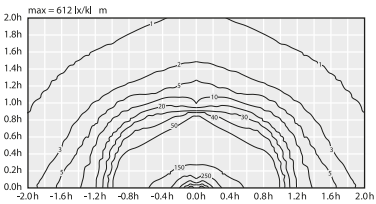
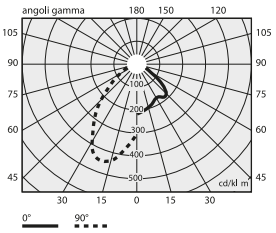
81 96 04

OLA

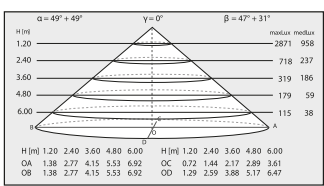
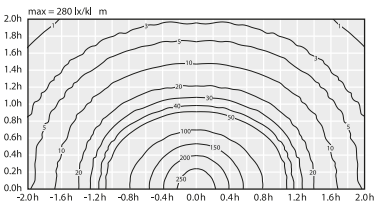
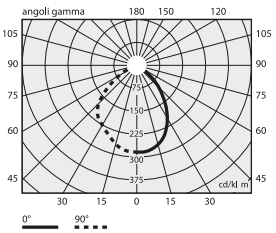
ME		E27	150W	HQI-E
ME		E40	250W	HQI-E/CDO-ET
SE		E40	Max 250W	NAV-E/SON
ST		E40	Max 150W	NAV-T/SON-T
MD		Rx7s	Max 150W	HQI-TS/MH-TD/CDM-TD

OLA

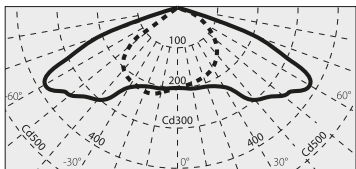
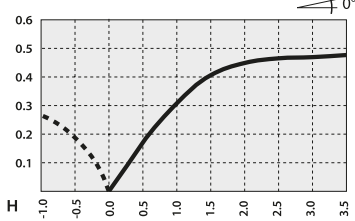
1x150w ME



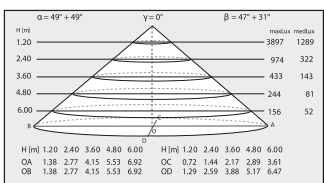
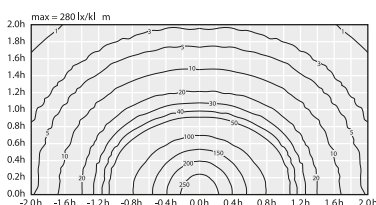
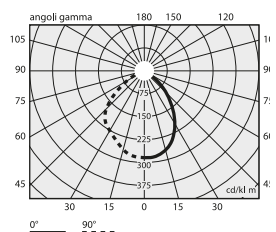
1x150w SE



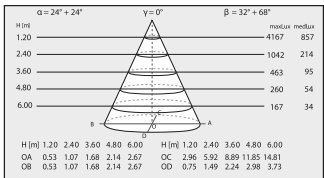
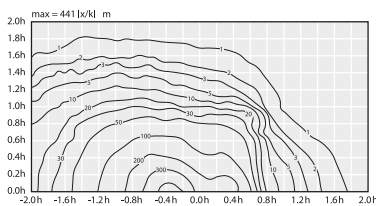
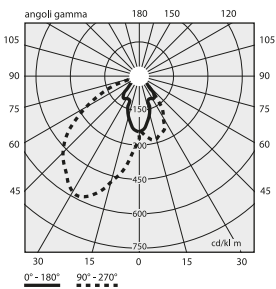
1x150w MT



1x250w ME



1x150w MD



Height (m)	3,5	4	5	6
Conversion factor	0,082	0,063	0,04	0,028



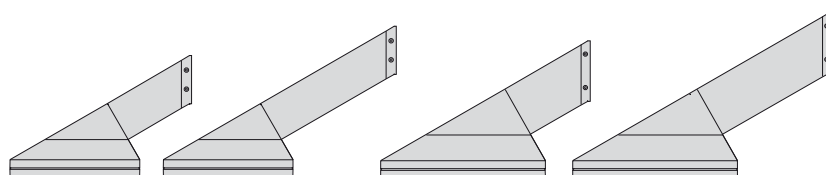
HORIZON

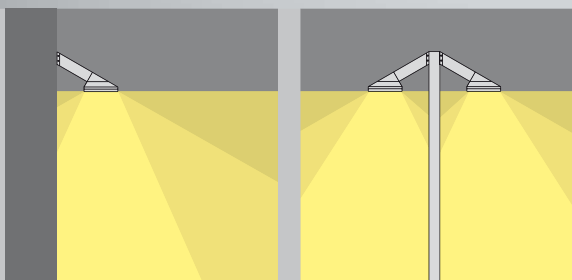
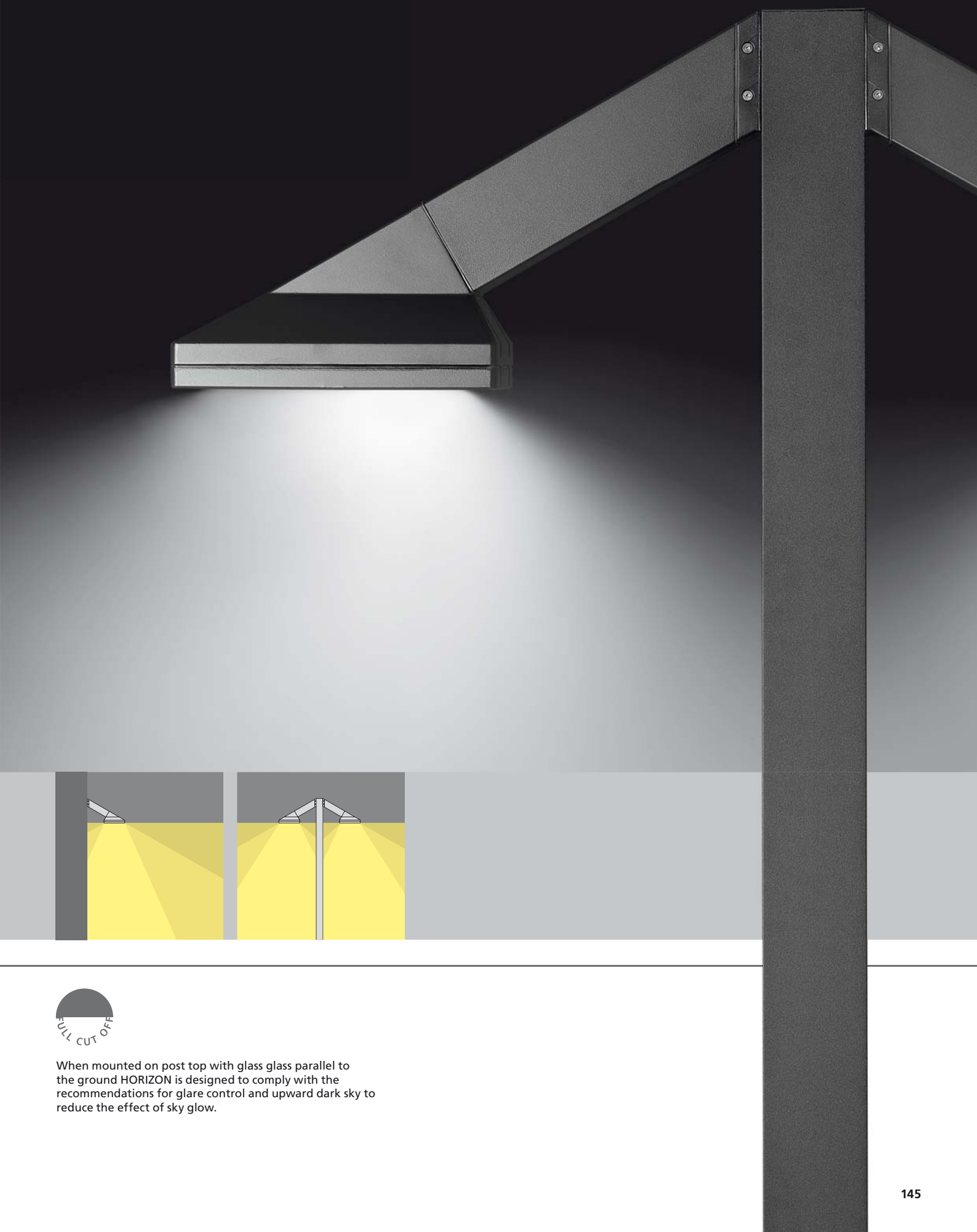
design Roberto Fiorato



Aesthetically designed exterior post top and wall mounted luminaires for urban lighting, manufactured in anti-corrosive die-cast aluminium, with outreach arm support bracket in extruded aluminium, and toughened glass cover.

HORIZON is available in two sizes each of which is designed to accept the outreach arm support brackets which are available in two different lengths, which offer two different angles of orientation providing flexible mounting combinations. When mounted on pole top with glass parallel to the ground they are suitable for use in areas sensitive to sky glow where regulations require strict control of upward light pollution. HORIZON 2/A version is suitable for metal halide lamps and has an asymmetrical distribution. HORIZON luminaires are suitable for HID and compact fluorescent lamps. A range of square extruded aluminium posts are available from 3.5m to 6.0m. The front cover and frame assembly hinges down from body for easy maintenance. HORIZON is suitable for lighting pedestrian walkways, parking areas and commercial / retail complexes.





When mounted on post top with glass parallel to the ground HORIZON is designed to comply with the recommendations for glare control and upward dark sky to reduce the effect of sky glow.



Landscape, public and pedestrian areas



Parking areas



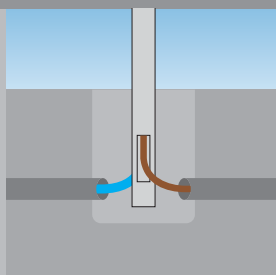
Streets



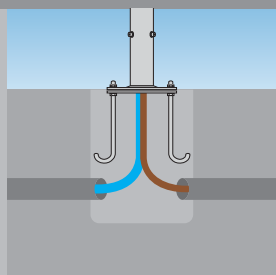
Facade



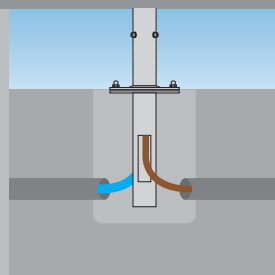
The cover glass is fitted within a frame which hinges down for ease of maintenance



Root mounted (INT) secured by concrete.

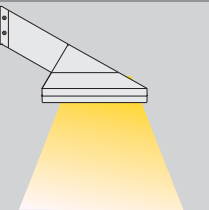


Flange mounting (FT) with anchor bolts secured by concrete. The baseplate, which also acts as a template, ensures a level fixing.

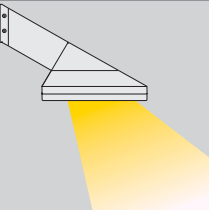


Flange plate fixing with root (FT) secured by concrete. For correct concrete base dimensions refer to information pages on poles.

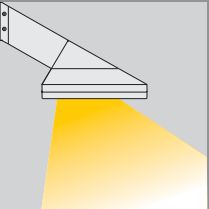
	 E27	 E27	 E27	 E40	 G24D-2	 G24Q-2	 2G10	 G12
HORIZON 1 HORIZON 1R			1X70W ME 1x70w SE					
HORIZON 1C	1X150W IAA	1X23W Dulux EL LL PLE-T			2X18W FSQ	2X18W FSQ		
HORIZON 2 HORIZON 2R			1X100W ME 1x150w ME	1X100W ST				
HORIZON 2C							2X36W FSS	
HORIZON 2/A								1X150W MT



Symmetric reflector
HORIZON 2 / S

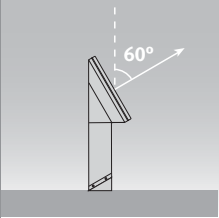
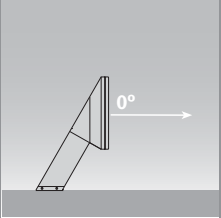


Asymmetric reflector
HORIZON 2 / A



Roadway optic
HORIZON 2 / SR

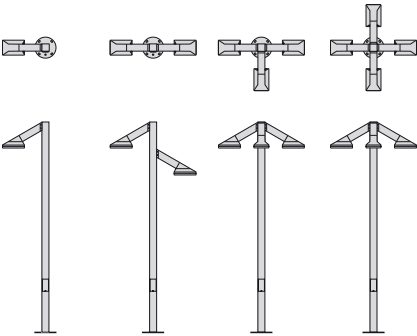
Horizon 1 and Horizon 2 version when installed at ground level has the optical axis aimed perpendicular to the vertical. "R" versions have the optical axis aimed -30° with respect to the vertical. The base accessory "V" when fitted to Horizon 1 and Horizon 2 installed at ground level adjusts the luminaire's bracket into a vertical position to have the optical axis aimed -60° with respect to the vertical.



Indoor / Outdoor		Outdoor	
Horizon 1 Horizon 1R Horizon 1C Horizon 1CR Horizon 2C Horizon 2CR	 25°	Horizon 2 Horizon 2R Horizon 2/SR	 15°

All HORIZON 1 and HORIZON2 2x36W version only are suitable for both indoor and outdoor installations 25°C operating ambient temperatures.

Luminaire suitable for wall, ground or pole mount applications.
30° outreach arm support bracket in extruded aluminium, painted in grey, white or black finish.
Housing, frame and support for pole, wall or ground installation are made of die-cast aluminium painted in grey, white or black finish.
High impact glass cover.
Aluminium reflector.
Stainless steel locking screws.
Polymer gasket.
"C" versions have a shorter arm support.
"R" versions feature a 180° turn body with respect to the arm support.
The magnetic ballasts installed in the fluorescent versions are equipped with thermal cut-off device, according to the EN 60598-1:2000 Standard.
G12 wirings are equipped with reflector in alluminio 99,85 with asymmetrical floodlights.
The cover glass is fitted within a frame which hinges down for ease of maintenance. All HORIZON 1 and HORIZON2 2x36W version only are suitable for both indoor and outdoor installations 25°C operating ambient temperatures. Other Horizon 2 versions have 15°C operating ambient temperature and can be installed, according to norms, only outdoors. When mounted on post top with glass glass parallel to the ground HORIZON is designed to comply with the recommendations for glare control and upward light pollution to reduce the effect of sky glow. Same configuration, when ground mounted, has the optical axis parallel to ground. "R" versions have the optical axis aimed +60° over the ground perpendicular either upwards or downwards, as well as the optical axis aimed -30° over the ground perpendicular.
Version for discharge lamps and incandescent lamps: class II.
Suitable for installations sensitive to light pollution; HORIZON is designed to meet recommendations for glare control and upward light pollution to reduce the effect of sky glow.



HORIZON 1



HORIZON 1

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
E27	70	ME	4000	S	87	II	CRL		•	07025287	⚡	•
E27	70	ME	4000	S	81	II	CRL		•	07025381	⚡	•
E27	70	ME	4000	S	96	II	CRL		•	07025496	⚡	•

HORIZON 1/C

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
G24d-2	2x18	FSQ	2700	S	87	I	CRL	<=B2	•	07025587	⚡	
G24d-2	2x18	FSQ	2700	S	81	I	CRL	<=B2	•	07025681	⚡	
G24d-2	2x18	FSQ	2700	S	96	I	CRL	<=B2	•	07025796	⚡	
G24q-2	2x18	FSQ	2700	S	87	I	ETRCL	A2	•	07025887	⚡	🇪🇺
G24q-2	2x18	FSQ	2700	S	81	I	ETRCL	A2	•	07025981	⚡	🇪🇺
G24q-2	2x18	FSQ	2700	S	96	I	ETRCL	A2	•	07026096	⚡	🇪🇺

- 🇪🇺 Complete with electronic ballast non dimmable 230÷240V 50/60Hz.
- ⚡ Luminaires supplied complete with lamp.

81 96 87

CLASS I



CLASS II



IP 54

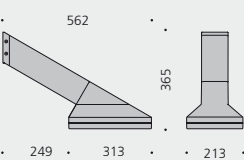


IK 08

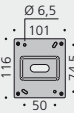
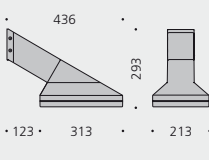


Depending on the Models

HORIZON 1



HORIZON 1/C



HORIZON 1

ME	⚡	E27	max 70W	HQI-E Coated / CDO-ET
SE	⚡	E27	max 70W	NAV-E / SON
FSQ	💡	G24-d	2x18W	DULUX D / PL-C 2Pin
FSQ	💡	G24-q	2x18W	DULUX D-E / PL-C 4Pin
FBT	💡	E27	1x23W	DULUX EL LL / PLE-T
IAA	⚡	E27	max 150W	

HORIZON 2



HORIZON 2

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
E27	150	ME		S	87	II	CR		•	05272987		•
E27	150	ME		S	81	II	CR		•	05273081		•
E27	150	ME		S	96	II	CR		•	05273196		•

HORIZON 2 /A

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
G12	150	MT		A	87	II	CR		•	05273887		
G12	150	MT		A	81	II	CR		•	05273981		
G12	150	MT		A	96	II	CR		•	05274096		

HORIZON 2 /SR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
E40	150	ST		SR	87	II	CR		•	05290287		
E40	150	ST		SR	81	II	CR		•	05290381		
E40	150	ST		SR	96	II	CR		•	05290496		

HORIZON 2 C

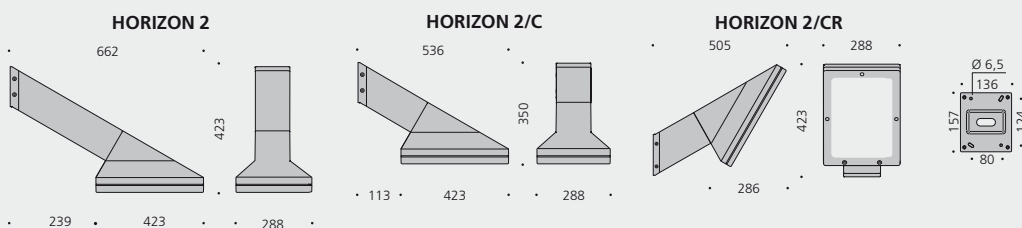
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
2G10	2x36	FSS	2700	S	87	I	ETRCL A2		•	07027187		
2G10	2x36	FSS	2700	S	81	I	ETRCL A2		•	07027281		
2G10	2x36	FSS	2700	S	96	I	ETRCL A2		•	07027496		

HORIZON 2 CR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes	
2G10	2x36	FSS	2700	S	87	I	ETRCL A2		•	07027787		
2G10	2x36	FSS	2700	S	81	I	ETRCL A2		•	07027881		
2G10	2x36	FSS	2700	S	96	I	ETRCL A2		•	07028096		

Luminaires for outdoor installation.

Luminaires supplied complete with lamp.



HORIZON 2

MT		G12	1x150W	CDM-T/HCI-T/HQI-T
ST		E40	max 150W	NAV-T/SON-T
ME		E27	max 150W	HQI-E Coated/CDO-ET
FSS		2G10	2x36W	DULUX-FLAT

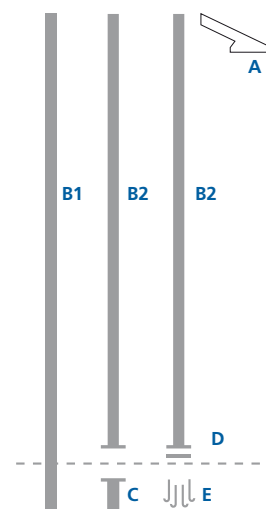
HORIZON 1

PQ100 POLES

Range of square extruded aluminium poles to UNI 6060. Available in 3,0 m, 3,5 m, 4,0 m and 4,5 m flange mounted versions or 3,0 m+ 0,5 m, 3,5 m+0,5 m, 4,0 m+0,5 m and 4,5 m + 0,5 m root mounted. Aluminium door to wiring compartment containing technopolymer V0-UL94 self-extinguishing wiring tray with four 16 mm² terminals. Poles can be earthed from within the wiring compartment. Pole and flange are pre-treated and polyester painted to provide a protective surface layer from UV and atmospheric conditions.

Flange mounted poles (FT) are designed for use with 14099404 root mounted flange plate, or on flange plate 14099220 with anchor bolts.

Code	Denomination	Colour	Description
B2 14111981	A0505/3	81	Pole Q100 F.T. 3 m c/w flange
14112096	A0505/3	96	
14112181	A0505/3,5	81	Pole Q100 F.T. 3,5 m c/w flange
14112296	A0505/3,5	96	
14112381	A0505/4	81	Pole Q100 F.T. 4 m c/w flange
14112496	A0505/4	96	
14112581	A0505/4,5	81	Pole Q100 F.T. 4,5 m c/w flange
14112696	A0505/4,5	96	
B1 14112781	A0505/3+0,5	81	Pole Q100 INT. (buried) 3+0,5 m
14112896	A0505/3+0,5	96	
14112981	A0505/3,5+0,5	81	Pole Q100 INT. (buried) 3,5+0,5 m
14113096	A0505/3,5+0,5	96	
14113181	A0505/4+0,5	81	Pole Q100 INT. (buried) 4+0,5 m
14113296	A0505/4+0,5	96	
14113381	A0505/4,5+0,5	81	Pole Q100 INT. (buried) 4,5+0,5 m
14113496	A0505/4,5+0,5	96	
F 14113681	A0506	81	Base "V" Horizon 1
14113796	A0506	96	
14113587	A0506	87	
C 14099404	A0478		Flange plate with root fixing
D 14099220	A0476		Base plate F.T. post
E 14099320	A0477		Anchor bolt Ø 18 X 400



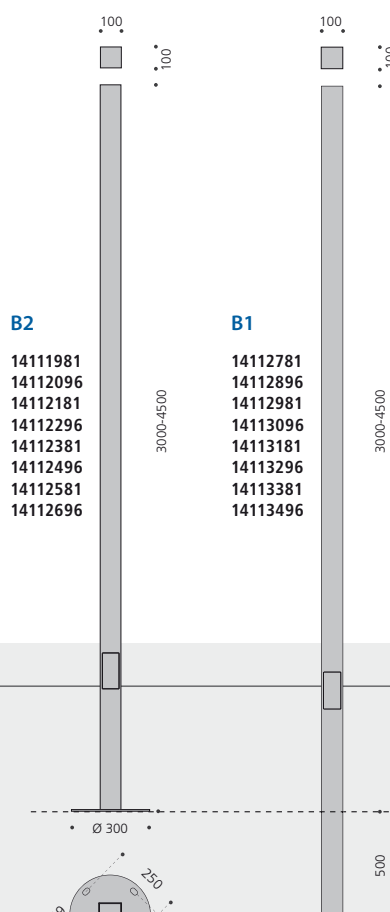
COMPLETE UNIT

1A+1B1 = 2 codes

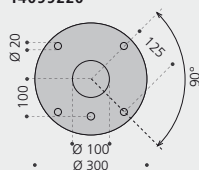
1A+1B2+1C = 3 codes

1A+1B2+1D+4E = 7 codes

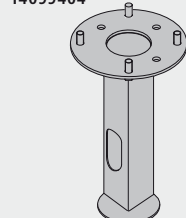
	ELEMENTS
A	luminaire
B1	post INT
B2	post FT
C	flange plate with fixing root
D	flange plate
E	anchor bolt



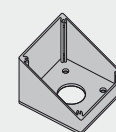
D
14099220



C
14099404



E
14099320



F
14113587
14113681
14113796

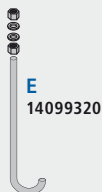
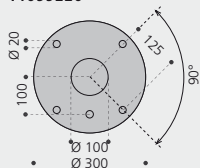
HORIZON 2

PQ140 POLES

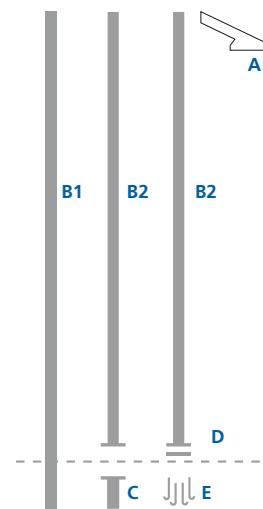
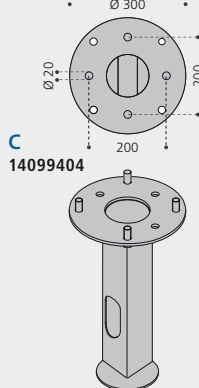
Range of square extruded aluminium poles to UNI 6060. Available in 3,5 m, 4,0 m, 5,0 m and 6,0 m flange mounted versions or 3,5 m+1 m, 4,0 m+1 m, 5,0 m+1 m and 6,0 m+1 m root mounted. Aluminium door to wiring compartment containing technopolymer V0-UL94 wiring tray with switched fuse holder and 16 mm² 5-pole terminal block suitable for looping wiring and three phase connection. Additional ground connection located near to flange by M8x20 nut and bolt. Pole and flange are pre-treated and polyester painted to provide a protective surface layer from UV and atmospheric conditions. Flange mounted poles (FT) are supplied c/w 300mm flange welded to pole base and designed for use with 14099404 root mounted flange plate.

	Code	Denomination	Colour	Description
B2	14113881	A0507/3,5	81	Pole Q140 F.T. 3,5 m c/w flange
	14113996	A0507/3,5	96	
	14114081	A0507/4	81	Pole Q140 F.T. 4 m c/w flange
	14114196	A0507/4	96	
	14114281	A0507/5	81	Pole Q140 F.T. 5 m c/w flange
	14114396	A0507/5	96	
B1	14114481	A0507/6	81	Pole Q140 F.T. 6 m c/w flange
	14114596	A0507/6	96	
	14114681	A0507/3,5+0,5	81	Pole Q140 INT. (buried) 3,5+0,5 m
	14114796	A0507/3,5+0,5	96	
	14114881	A0507/4+1	81	Pole Q140 INT. (buried) 4+1 m
	14114996	A0507/4+1	96	
F	14115081	A0507/5+1	81	Pole Q140 INT. (buried) 5+1 m
	14115196	A0507/5+1	96	
	14115281	A0507/6+1	81	Pole Q140 INT. (buried) 6+1 m
	14115396	A0507/6+1	96	
	14115581	A0508	81	Base "V" Horizon 2
	14115696	A0508	96	
G	14115781	A0509	81	Base plate cover
	14115896	A0509	96	
	14118897	A0509	87	
C	14099404	A0478		Ground piece
D	14099220	A0476		Base plate F.T. post
E	14099320	A0477		Anchor bolt Ø 18 X 400

D
14099220



C
14099404



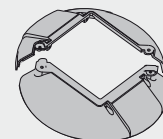
COMPLETE UNIT

1A+1B1 = 2 codes

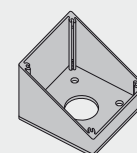
1A+1B2+1C = 3 codes

1A+1B2+1D+4E = 7 codes

	ELEMENTS
A	luminaire
B1	post INT
B2	post FT
C	flange plate with fixing root
D	flange plate
E	anchor bolt

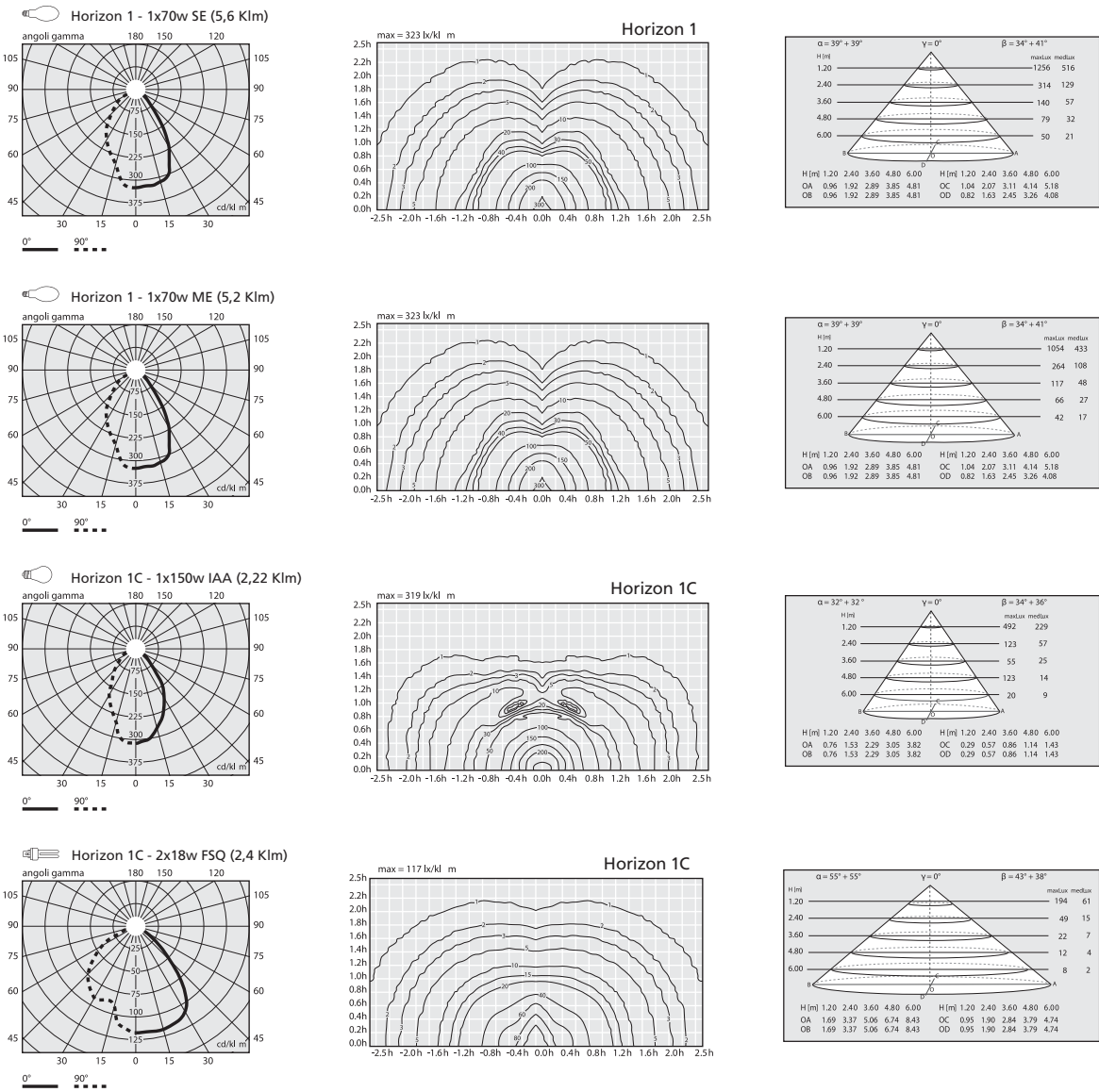


G
14115781
14115896
14118897



F
14115581
14115696
14115487

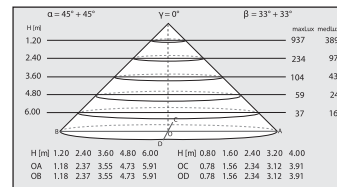
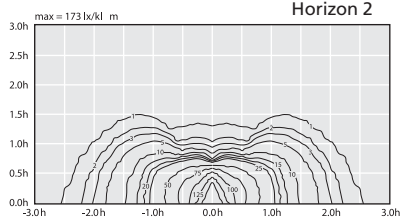
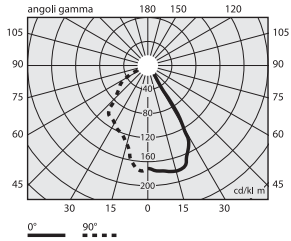
HORIZON 1



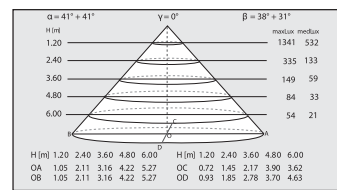
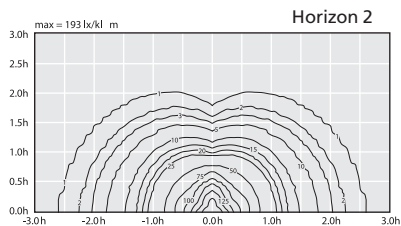
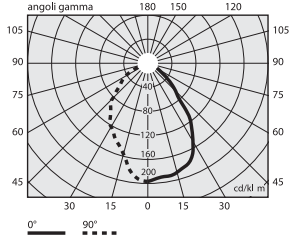
Height (m)	1	2,5	3	3,5	4	4,5	5	6
Conversion factor	1	0,25	0,111	0,082	0,063	0,049	0,040	0,020

HORIZON 2

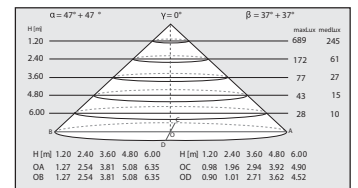
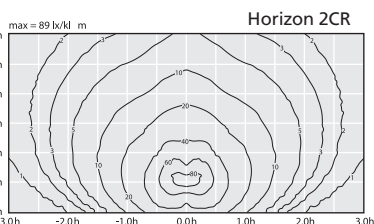
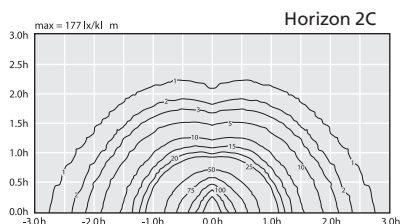
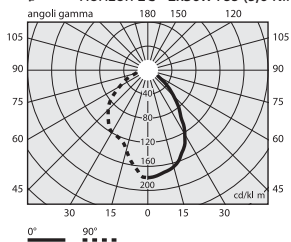
 Horizon 2 - 1x100w ME (8,2 Kl/m)



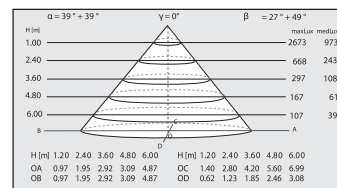
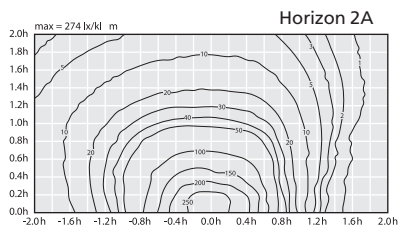
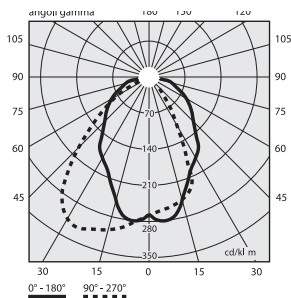
 Horizon 2 - 1x100w ST (3,8 Kl/m)



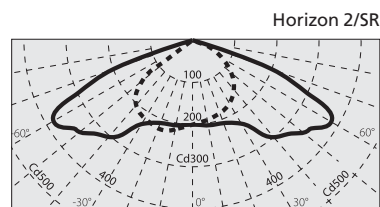
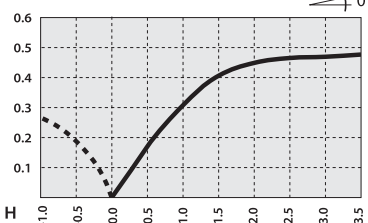
 Horizon 2C - 2x36w FSS (5,6 Kl/m)



 Horizon 2A - 1x150w MT



 Horizon 2/SR - 1x150w MT

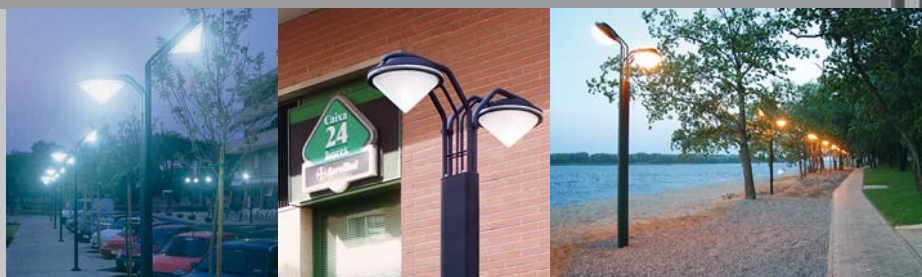


Height (m)	1	2,5	3	3,5	4	4,5	5	6
Conversion factor	1	0,25	0,111	0,082	0,063	0,049	0,040	0,020

KONOS PARK GLOBUS PARK

design Roberto Fiorato

A range of luminaires manufactured from die-cast aluminium with a semi-spherical or cone shaped diffuser in frosted glass. The luminaires are designed for mounting on extruded aluminium post or wall mounted. A variety of mounting arms and accessories are offered for different mounting positions and angles, single or twin mounting on posts up to 4m height maximum. Both KONOS PARK and GLOBUS PARK are offered in two different sizes and are suitable for HID lamp sources. They are ideal for pedestrian walkways and residential areas.





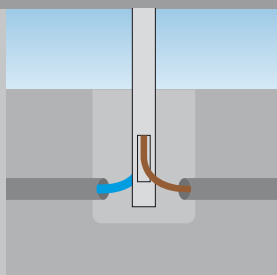
Landscape, public and pedestrian areas



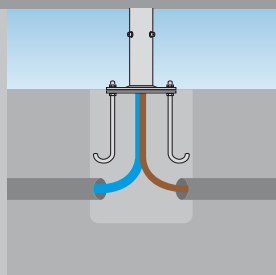
Residential applications



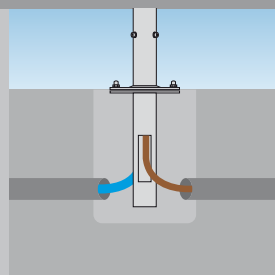
Complete luminaire comprises the following item codes: Luminaire, either pole INT root mounted, and anti sink plate or FT flange mounted, flange plate, choice of anchor bolts or flange plate with fixing root 14099404. Fixing arm bracket, fixing arm plate (single or double). Optional pole finishing base plate cover if required. Wall mounted version comprise; Luminaire + bracket+arm.



Root mounted (INT) secured by concrete.



Flange mounting (FT) with anchor bolts secured by concrete. The baseplate, which also acts as a template, ensures a level fixing



Flange plate fixing with root (FT) secured by concrete. For correct concrete base dimensions refer to information pages on poles

KONOS PARK

Body and frame made of die-cast aluminium with chromium phosphate pretreatment and polyester powder coating, complying with the IEC 68-2-52 and ASTM B117/90 standards, ensuring UV stabilisation combined with highest resistance to heat and atmospherical condition.

Ice etched glass diffuser, conical shape.

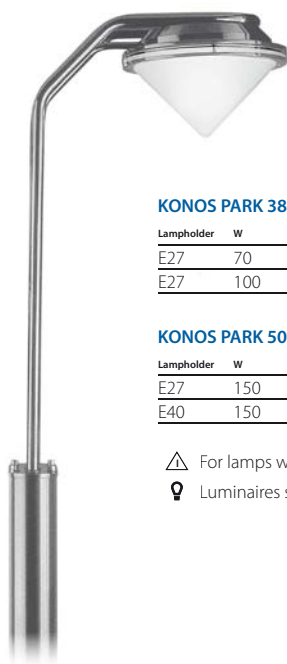
Aluminium reflector.

Polymer gasket.

Pole or wall mount.

Including capacitor for power factor correction.

1x70W SE version is supplied for lamp with built-in ignitor.



KONOS PARK 38

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	70	SE/I		C	96	I	CR			• 05261096	△
E27	100	ME		C	96	I	CR			• 05261296	

KONOS PARK 50

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	150	ME		C	96	I	CRL			• 07024896	Q
E40	150	SE		C	96	I	CR			• 05261596	

△ For lamps with integral ignitor.

Q Luminaires supplied complete with lamp.

GLOBUS PARK

Body and frame made of die-cast aluminium with chromium phosphate pretreatment and polyester powder coating, complying with the IEC 68-2-52 and ASTM B117/90 standards, ensuring UV stabilisation combined with highest resistance to heat and atmospherical condition.

Ice etched glass diffuser, conical shape.

Aluminium reflector.

Polymer gasket.

Pole or wall mount.

Including capacitor for power factor correction.

1x70W SE version is supplied for lamp with built-in ignitor.



GLOBUS PARK 38

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	70	SE/I		C	96	I	CR			• 05261796	△
E27	100	ME		C	96	I	CR			• 05261996	

GLOBUS PARK 50

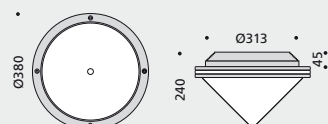
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	150	ME		C	96	I	CRL			• 07024996	Q
E40	150	SE		C	96	I	CR			• 05262296	

△ For lamps with integral ignitor.

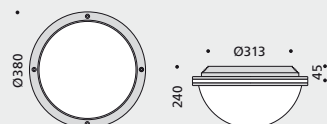
Q Luminaires supplied complete with lamp.

96	CLASS I	IP 65	IK 06 1J	IK 07 2J (GLOBUS 38)	IK 08 5J (GLOBUS 50)	F	KG KONOS PARK 38: Max 7kg KONOS PARK 50: Max 11,8kg	KG GLOBUS PARK 38: Max 7,5kg GLOBUS PARK 50: Max 13,6kg	03
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KONOS PARK 38



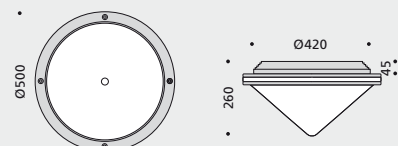
GLOBUS PARK 38



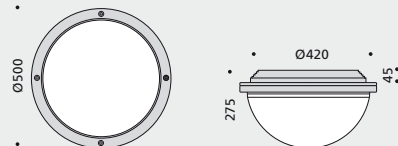
KONOS PARK 38 / GLOBUS PARK 38

ME	100W	HQI-E/CDO-ET
SE/I	70W	NAV-E/SON△

KONOS PARK 50



GLOBUS PARK 50



KONOS PARK 50 / GLOBUS PARK 50

ME	150W	HQI-E/CDO-ET
SE	150W	NAV-E/SON

KONOS PARK, GLOBUS PARK

INT. TYPE POST
Oval post manufactured from extruded aluminium UNI 6005 240x100 mm section 2.5mm thickness. Die-cast aluminium UNI 5076, inspection panel door to wiring compartment with triangular key. Polypropylene wiring tray with five 16mm² terminal block suitable for looping wiring and three phase connection. Earthing is provided internally or externally by M8 bolt and nut. Available in 2.0M, 2.5M and 3.0M heights.
Fixing & accessories:
Anti-sink plate in Fe360 steel.
Base plate cover in aluminium UNI 5076.

Outreach 45° mounting arms in Fe360 steel; 500 mm and 1000 mm extending overall heights to 2.5M, 3.0M, 3.5M and 4.0M. Fe360 steel components are cataphoresis pretreated and aluminium components receive a phospho-chromate priming. All components are polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition. Colours; RAL 5020 blue or black.

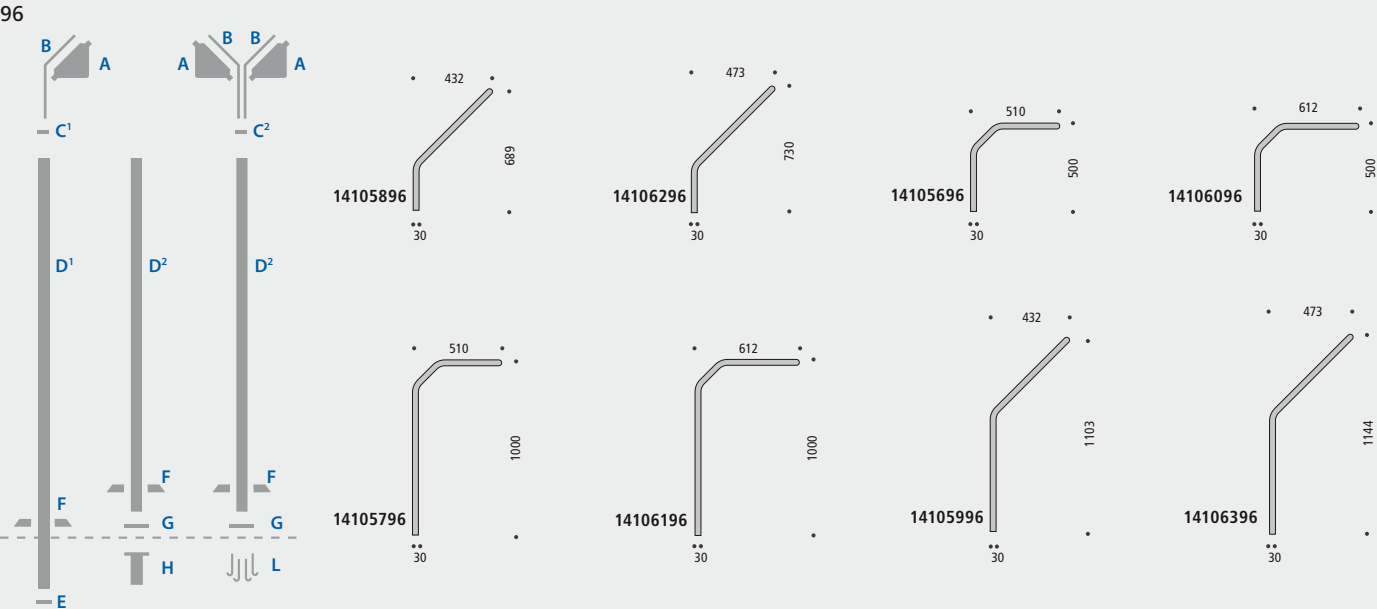
F.T. TYPE POST
Oval post manufactured from extruded aluminium UNI 6005 240x100 mm section 2.5mm thickness. Die-cast aluminium UNI 5076, inspection panel door to wiring compartment with triangular key. Polypropylene wiring tray with five 16 mm² terminal block suitable for looping wiring and three phase connection. Earthing is provided internally or externally by M8 bolt and nut. Available in 2.0M, 2.5M and 3.0M heights.
Fixing & accessories:
Ø300 mm flange plate in Fe360 steel.
Base plate cover in aluminium UNI 5076.
Outreach 45° mounting arms in Fe360 steel; 500 mm and 1000 mm extending overall heights to 2.5M, 3.0M, 3.5M and 4.0M.

Flange plate fixing root in hot dipped galvanised Fe360 steel bolted to post flange for secure fixing. Alternative fixing by additional flange plate and anchor rods. Fe360 steel components are cataphoresis pretreated and aluminium components receive a phospho-chromate priming. All components are polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition.

COMPLETE UNIT

1A+1B+1C¹+1D¹+1E+1F = 6 codes
2A+2B+1C²+1D¹+1E+1F = 8 codes
1A+1B+1C¹+1D²+1F+1G+1H = 7 codes
2A+2B+1C²+1D²+1F+1G+1H = 9 codes
1A+1B+1C¹+1D²+1F+1G+4L = 10 codes
2A+2B+1C²+1D²+1F+1G+4L = 12 codes

ELEMENTEN	
A	luminaire
B	arm
C¹	fixing arm plate (single)
C²	fixing arm plate (double)
D¹	post INT
D²	post FT
E	anti sink plate
F	base plate cover
G	flange plate
H	flange plate with fixing root
L	anchor bolt



MOUNTING ACCESSORIES.

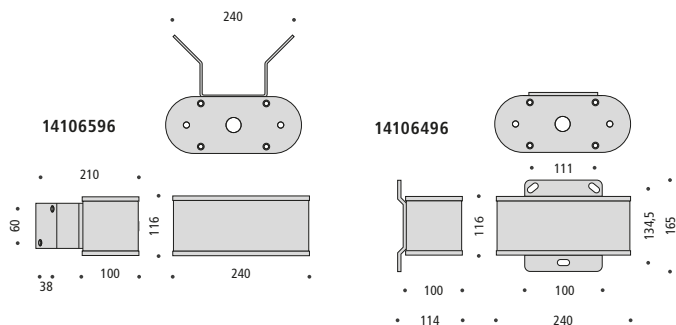
Bracket made of extruded aluminium UNI 6005 240x100 mm 2,5 mm thickness.

Base plate and fixing arm bracket in Fe360 steel.

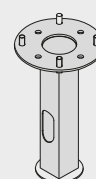
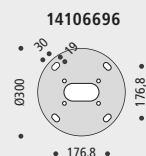
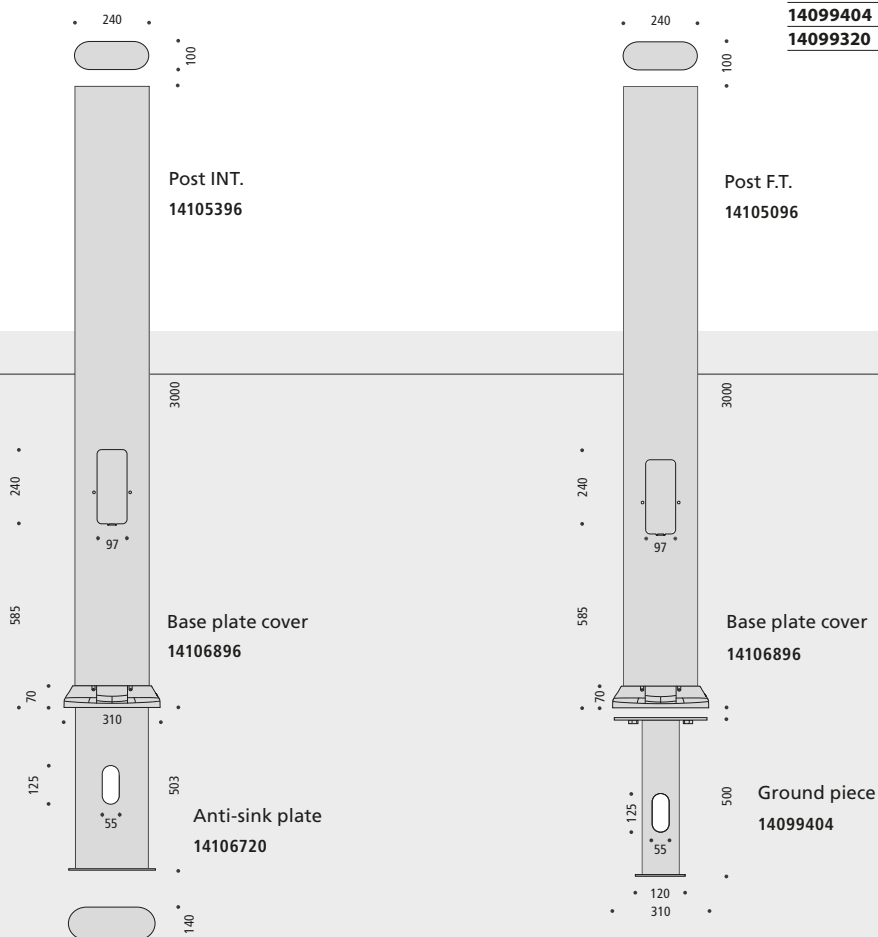
Stainless steel screws.

Fixing arms made of Fe360, either horizontal or angled at 45°; 500 and 1000 mm height.

Fe360 steel components are cataphoresis pretreated and aluminium components receive a phospho-chromate priming. All components are polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition.

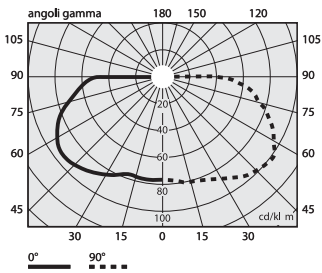
**ACCESSORIES**

Code	Denomination	Colour	Description
14105096	D² A0492/3	96	Oval pole 300 FT.
14105396	D¹ A0492/3+0,5	96	Oval pole 300+50 INT.
14105496	C¹ A0493	96	Fixing arm plate (single)
14105596	C² A0493/BI	96	Fixing arm plate (double)
14105696	B A0494/38-1	96	Short horizontal fixing arm 38
14105796	B A0494/38-2	96	Long horizontal fixing arm 38
14105896	B A0494/38-3	96	Short angled arm 38
14105996	B A0494/38-4	96	Long angled arm 38
14106096	B A0495/50-1	96	Short horizontal fixing arm 50
14106196	B A0495/50-2	96	Long horizontal fixing arm 50
14106296	B A0495/50-3	96	Short angled arm 50
14106396	B A0495/50-4	96	Long angled arm K50-G50
14106496	A0496	96	Bracket
14106596	A0497	96	Corner bracket
14106696	G A0498	96	Flange plate oval pole FT.
14106720	E A0499		Anti sink plate oval INT. Pole
14106896	F A0500	96	Base plate cover ov. Pole
14099404	H A0478		Flange plate with fixing root
14099320	L A0477		Anchor bolt Ø 18 X 400

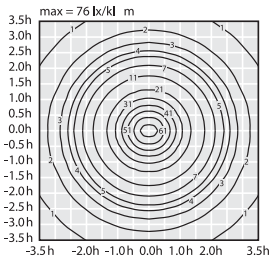
**14099404****14099320**

KONOS PARK

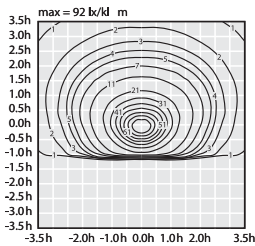
 Konos Park 38 - 1x70w SE (5,6 Klm)



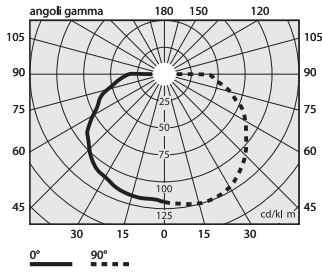
HORIZONTAL ARM MOUNT



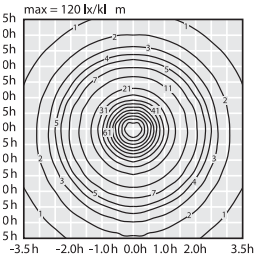
45° BENT ARM MOUNT



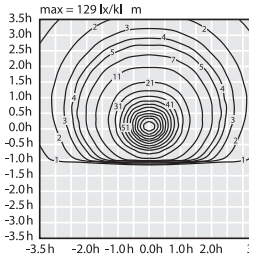
 Konos Park 50 - 1x150w SE (11,4 Kl m)



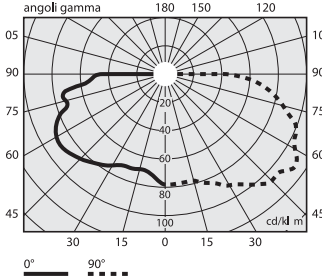
HORIZONTAL ARM MOUNT



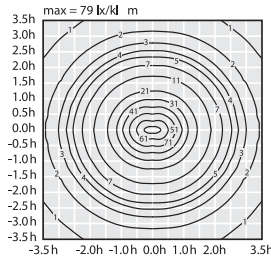
45° BENT ARM MOUNT



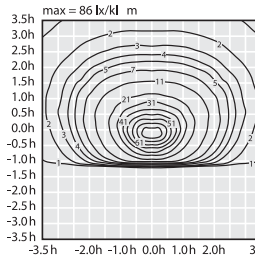
 Konos Park 38 - 1x100w ME (8,2 Kl m)



HORIZONTAL ARM MOUNT



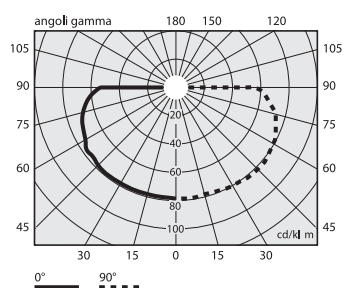
45° BENT ARM MOUNT



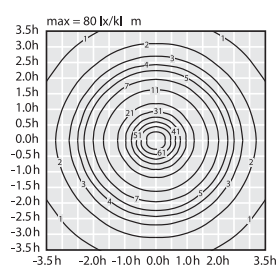
Height (m)	1	2,5	3	3,5	4
Conversion factor	1	0,160	0,111	0,082	0,06

GLOBUS PARK

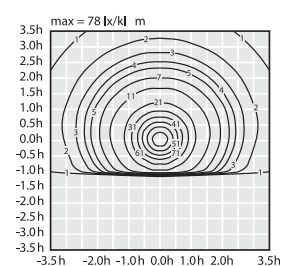
 **Globus Park 38 - 1x70w SE (5,6 Klm)**



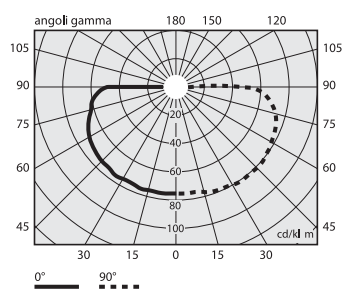
HORIZONTAL ARM MOUNT



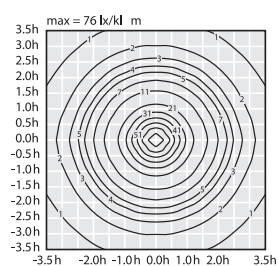
45° BENT ARM MOUNT



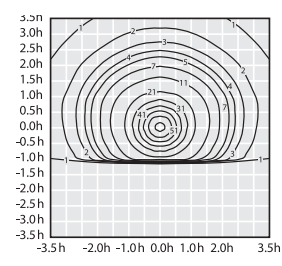
 **Globus Park 38 - 1x100w ME (8,2 Klm)**



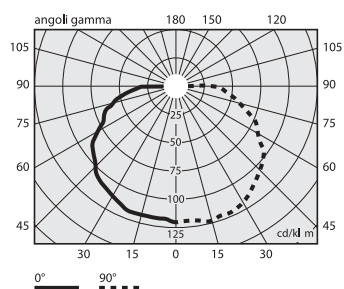
HORIZONTAL ARM MOUNT



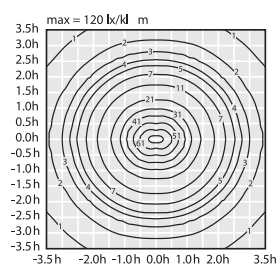
45° BENT ARM MOUNT



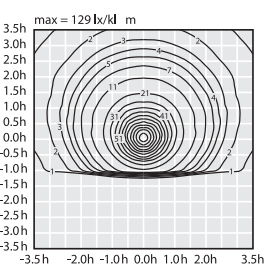
 **Globus Park 50 - 1x150w SE (11,4 Klm)**



HORIZONTAL ARM MOUNT



45° BENT ARM MOUNT



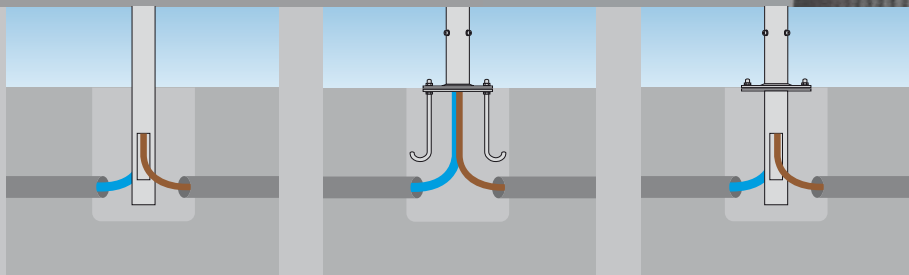
Height (m)	1	2,5	3	3,5	4
Conversion factor	1	0,160	0,111	0,082	0,06

MONOKONOS MONOGLOBUS

design Roberto Fiorato

A range of luminaires with body and frame manufactured from die-cast aluminium with a semi-spherical or cone shaped diffuser in frosted glass. Designed for mounting onto a cylindrical post by two symmetrical arms which cradle the luminaire. Post are available in 3.0m or 3.5m.

The MONOKONOS and MONOGLOBUS luminaires are available in two different sizes and are suitable for HID lamps. They are ideal for pedestrian walkways and residential areas.



Root mounted (INT) secured by concrete.

Flange mounting (FT) with anchor bolts secured by concrete. The baseplate, which also acts as a template, ensures a level fixing.

Flange plate fixing with root (FT) secured by concrete. For correct concrete base dimensions refer to information pages on poles.



Landscape, public and pedestrian areas



Residential applications

MONOKONOS

Body, frame and arm connector manufactured from die-cast aluminium UNI 5076, phospho-chromate primed and polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition.
Ice etched glass diffuser, conical shape.
Aluminium reflector UNI 9001/5.
Polymer gasket.
Including capacitor for power factor correction.



MONOKONOS 38

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	100	ME		C	96	I	CR		•	05264896	

MONOKONOS 50

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	150	ME		C	96	I	CRL		•	07025096	⚡

⚡ Luminaires supplied complete with lamp.

MONOGLOBUS

Body, frame and arm connector manufactured from die-cast aluminium UNI 5076, phospho-chromate primed and polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition.
Ice etched glass diffuser, semispherical shape.
Aluminium reflector UNI 9001/5.
Polymer gasket.
Including capacitor for power factor correction.



MONOGLOBUS 38

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	100	ME		C	96	I	CR		•	05265596	

MONOGLOBUS 50

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
E27	150	ME		C	96	I	CRL		•	07025196	⚡

⚡ Luminaires supplied complete with lamp.

96

CLASS I

IP 65

IK 06 1J

IK 07 2J

IK 08 5J

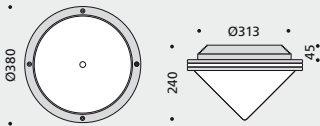
F

KG
MONOKONOS 38:
Max 7kg
MONOKONOS 50:
Max 11,8kg

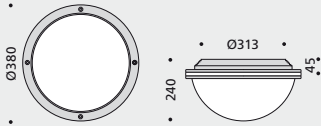
KG
MONOGLOBUS 38:
Max 7,5kg
MONOGLOBUS 50:
Max 13,6kg

03

MONOKONOS 38

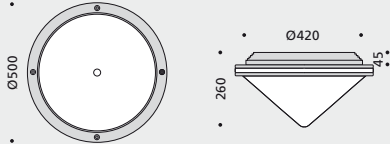


MONOGLOBUS 38

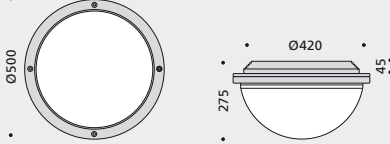


MONOKONOS 38 / MONOGLOBUS 38			
ME	100W	HQI-E/CDO-ET	
SE/I	70W	NAV-E/SON	

MONOKONOS 50



MONOGLOBUS 50



MONOKONOS 50 / MONOGLOBUS 50			
ME	150W	HQI-E/CDO-ET	
SE	150W	NAV-E/SON	

MONOKONOS, MONOGLOBUS

MONOKONOS - MONOGLOBUS POST
Ø90mm cylindrical post manufactured from extruded aluminium UNI 6060 2.5mm thickness.

Self-extinguishing polycarbonate inspection panel V0-UL94 to polypropylene wiring tray with five 16mm² terminal block suitable for looping wiring and three phase connection.

Earthing is provided internally or externally by M8 bolt and nut.

Stainless steel external fixings.

Available in 2.2m - 2.7m heights (FT) flange mounted versions or 2.2m (INT) root mounted.

Fixing & accessories:

Ø270mm aluminium flange pole fixing.

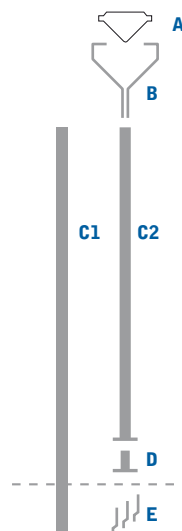
Fe360 steel flange plate Ø270mm 1mm thickness.

800mm support arms in Fe360 steel.

Zinc steel anchor bolts.

Fe360 steel components are cathaphoresis pretreated and aluminium components

receive a phospho-chromate priming. All components are polyester powder coated, complying with IEC 68-2-52 and ASTM B117/90 standards to ensure UV stabilisation combined with good resistance to heat and atmospheric condition.

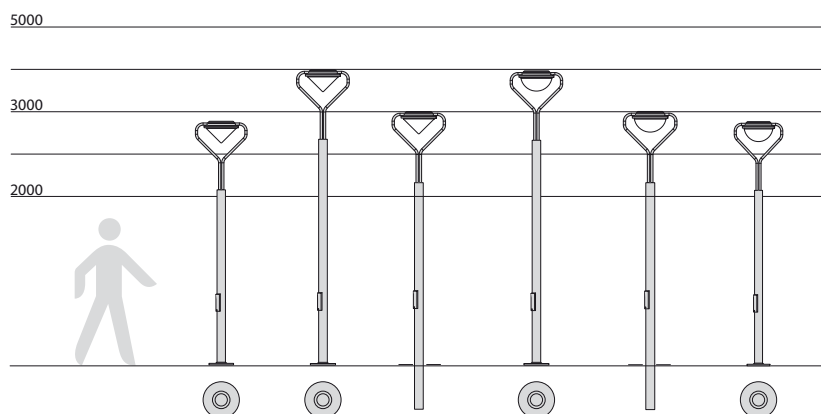


COMPLETE UNIT

1A+1B+1C1 = 3 codes

1A+1B+1C2+1D+3E = 7 codes

	COMPONENTS
A	luminaire
B	arm
C1	post INT
C2	post FT
D	flange plate
E	anchor bolt

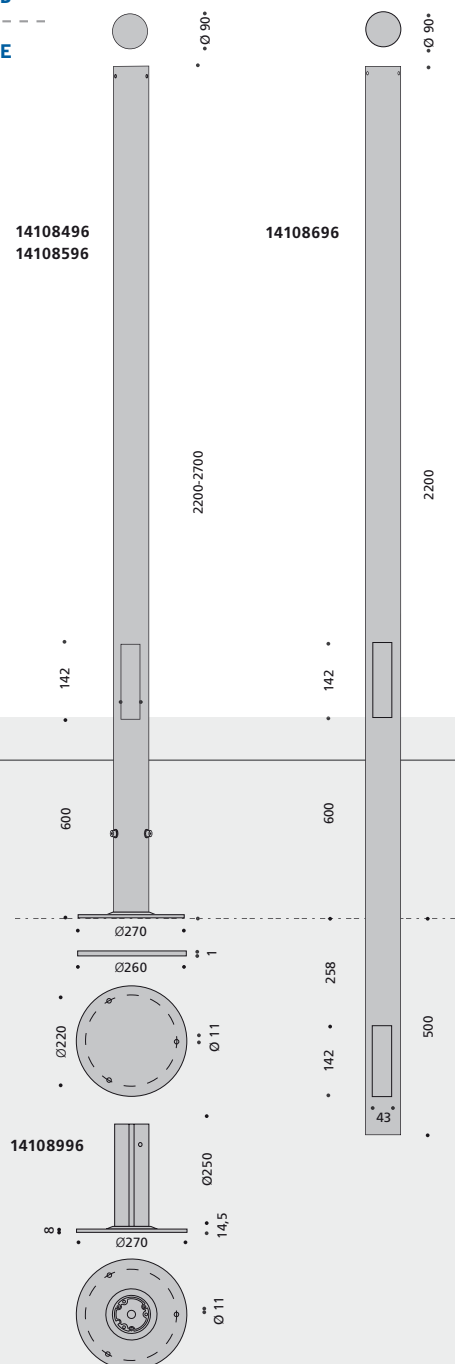
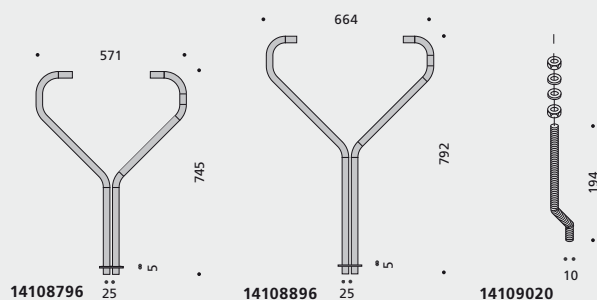


14108496
14108596

14108696

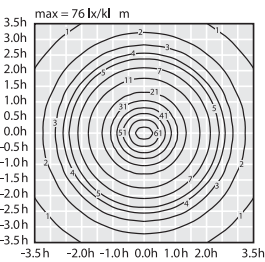
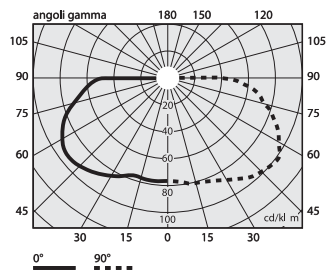
ACCESSORIES

Code	Denomination	Colour	Description
14108496	A0501/2,2	96	Post 220 F.T.
14108596	A0501/2,7	96	Post monoKonos/Globus 270 F.T.
14108696	A0501/2,2+0,5	96	Post 220 + 50 INT.
14108796	A0502/38	96	Arm 38
14108896	A0502/50	96	Arm 50
14108996	A0503	96	Flange plate
14109020	A0504	96	Anchor bolt

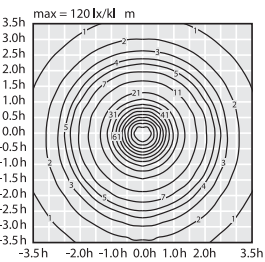
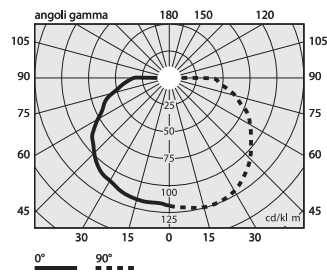


MONOKONOS

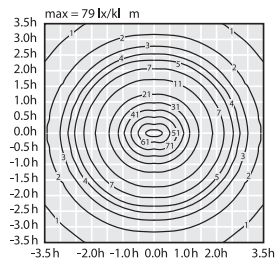
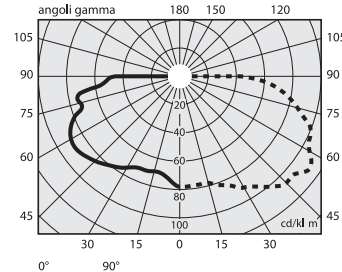
 monoKonos 38 - 1x70w SE (5,6 Klm)



 monoKonos 50 - 1x150w SE (11,4 Klm)



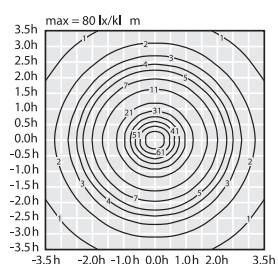
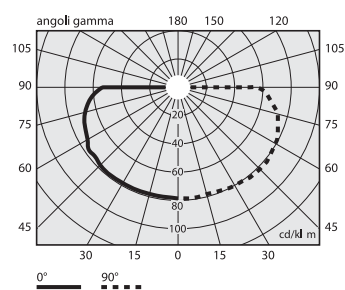
 monoKonos 38 - 1x100w ME (8,2 Klm)



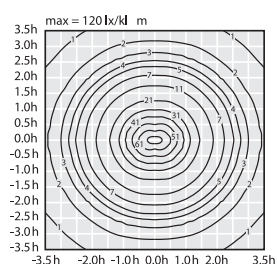
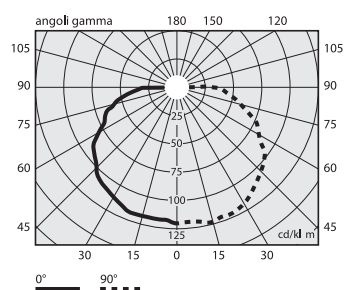
Height (m)	1	2,5	3	3,5	4
Conversion factor	1	0,160	0,111	0,082	0,06

MONOGLOBUS

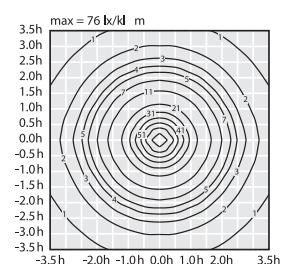
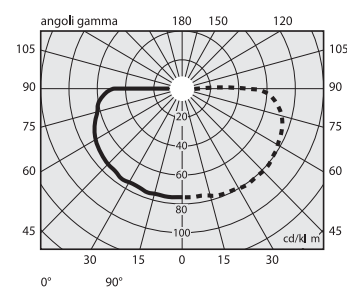
 monoGlobus 38 - 1x70w SE (5,6 Klm)



 monoGlobus 50 - 1x150w SE (11,4 Klm)



 monoGlobus 38 - 1x100w ME (8,2 Klm)



SYSTEMPARK

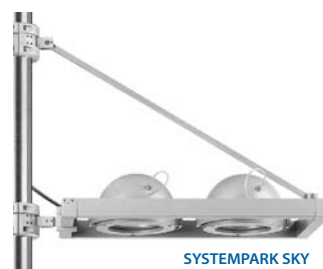
A system for urban lighting based on a universal mounting design to take three complimentary ranges of luminaires for mounting on 60mm or 90mm stainless steel poles. All system park luminaires are designed to comply with the recommendations for glare control and upward light pollution by minimizing the effects of obtrusive light and reducing sky glow. The universal attachment allows a different combination and type of luminaires on the same posts, it is also possible to mount advertising banners. Standard posts are 3.5M to 6.0M other options are available on request. SystemPark is a versatile system which offers the designer and planner a variety of options for lighting solutions in urban spaces.



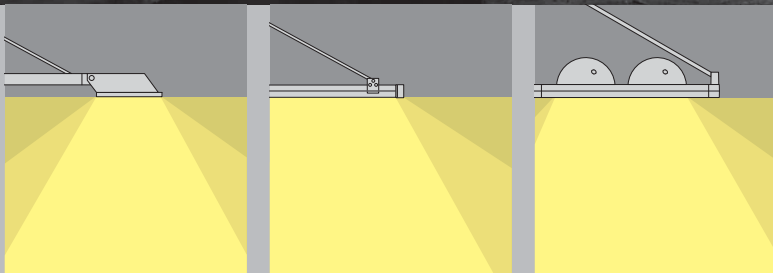
SYSTEMPARK SQUARE



SYSTEMPARK LINE



SYSTEMPARK SKY



Luminaires installed with the optical axis perpendicular to the ground comply with dark sky regulations.



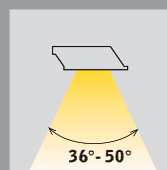
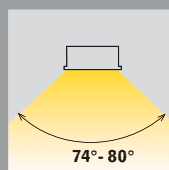
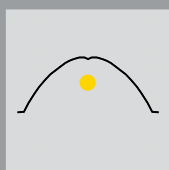
SYSTEMPARK SQUARE 150

SYSTEMPARK SQUARE 400

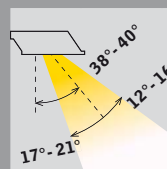
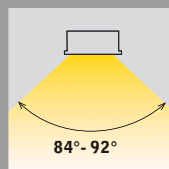
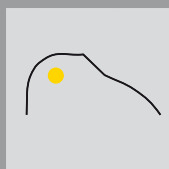
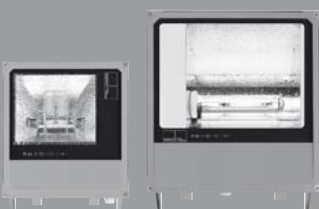
SystemPark Square are high performance luminaires with a clean linear contemporary design suitable for HID and LED light sources. They are available in two sizes and offer the following wide variety of optics:

HID; Symmetrical, asymmetrical medium beam, circular narrow beam, street lighting and asymmetrical pedestrian crossing version.

LED; Narrow, medium and wide beam lenses with elliptical and asymmetrical distribution.



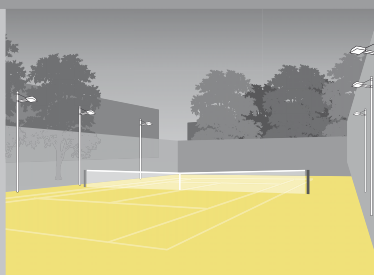
Symmetrical Reflector
The even distribution of light in all directions is crucial to ensuring consistent lighting values.



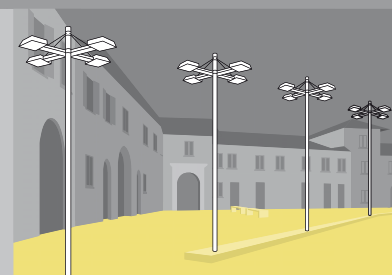
Asymmetrical Reflector
Asymmetrical distribution of the light is useful to enhance lighting in specific areas.



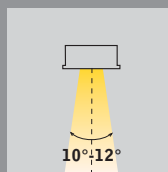
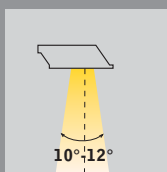
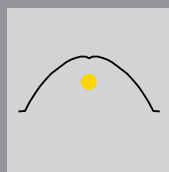
Streets



Small sports areas

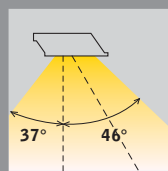
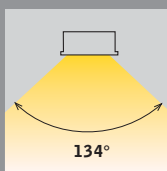
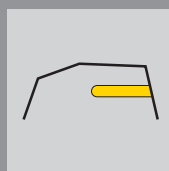
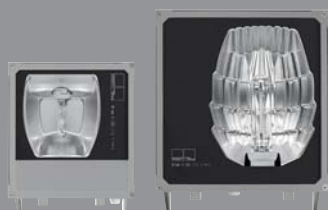


Landscape, public and pedestrian areas



Circular Reflector

A controlled beam of light for highlighting a specific area or feature, whilst avoiding spill light.

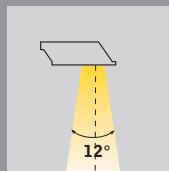
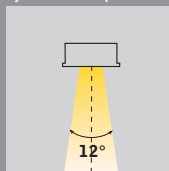


Roadway reflector

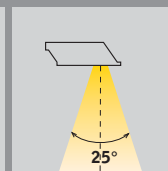
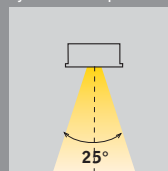
High light output performance with a precise controlled full "cut-off" optic offering high uniformity distribution levels and zero upward light pollution.



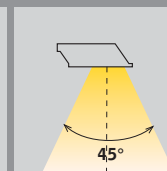
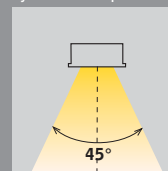
SystemPark Square 150/400 LED lens 12°



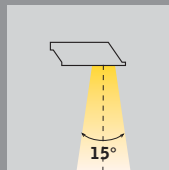
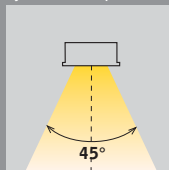
SystemPark Square 150/400 LED lens 25°



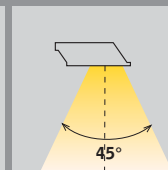
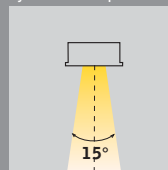
SystemPark Square 150/400 LED lens 45°



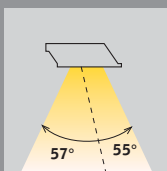
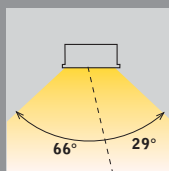
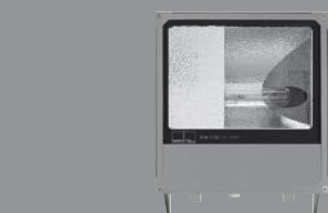
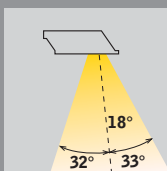
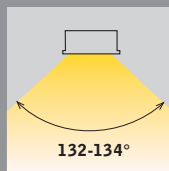
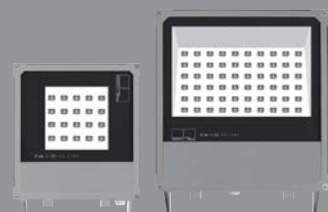
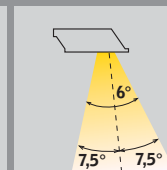
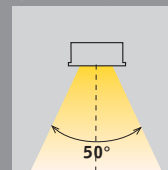
SystemPark Square 150/400 LED lens 45°x15°



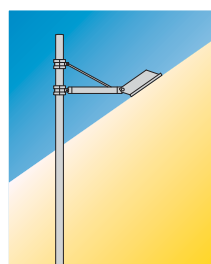
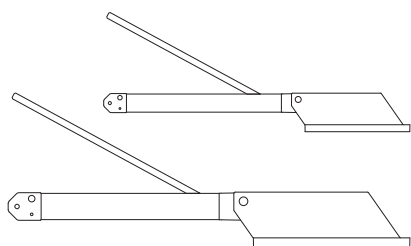
SystemPark Square 150/400 LED lens 15°x45°



SystemPark Square 150/400 LED lens 50°x15° A/6°



The models are particularly indicated for the illumination of pedestrian crossings.



SQUARE luminaires can be tilted by adjusting the fixing to the support bracket.

SYSTEMPARK LINE

The SystemPark Line luminaires, available in three different lengths, are small in size with a minimum visual impact, thanks also to the use of linear or compact LED and fluorescent light sources.

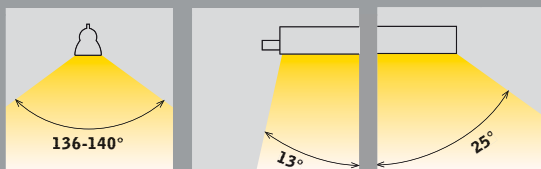
SYSTEMPARK LINE LED:

Owing to the use of specific lenses, the resulting luminous flux is characterised by good uniformity and a wide distribution, which make these products suitable for illuminating bicycle paths/footpaths, public parks, green areas and for urban decor applications. SYSTEMPARK LINE LED luminaires are available in Class II rating.

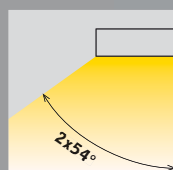
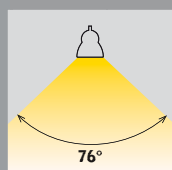
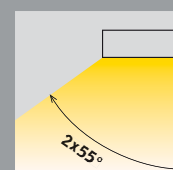
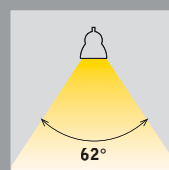
SYSTEMPARK LINE:

In models with G5 connection, one LINE luminaire can have different light emissions that can be modified by adjusting internally the light source.

LED

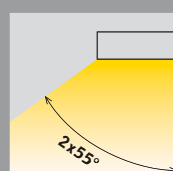
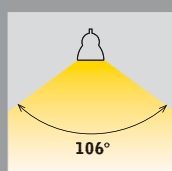
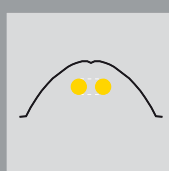


G5

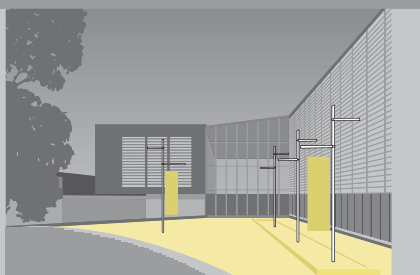
G5
posizion B

All FD (T5) fluorescent versions can be adjusted to alter the light distribution.

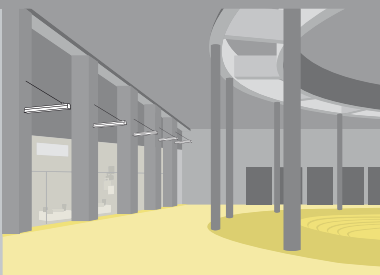
2G11



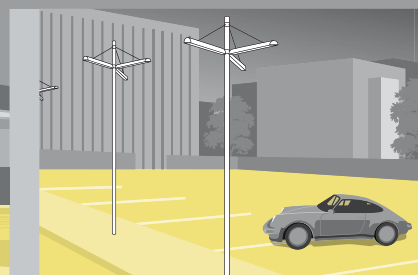
Compact fluorescent 2G11 versions provide a wider light distribution.



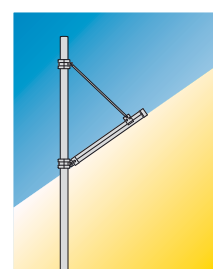
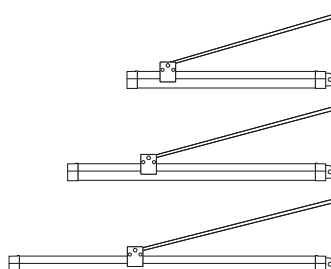
Fairs and exhibitions



Commercial centres and interiors



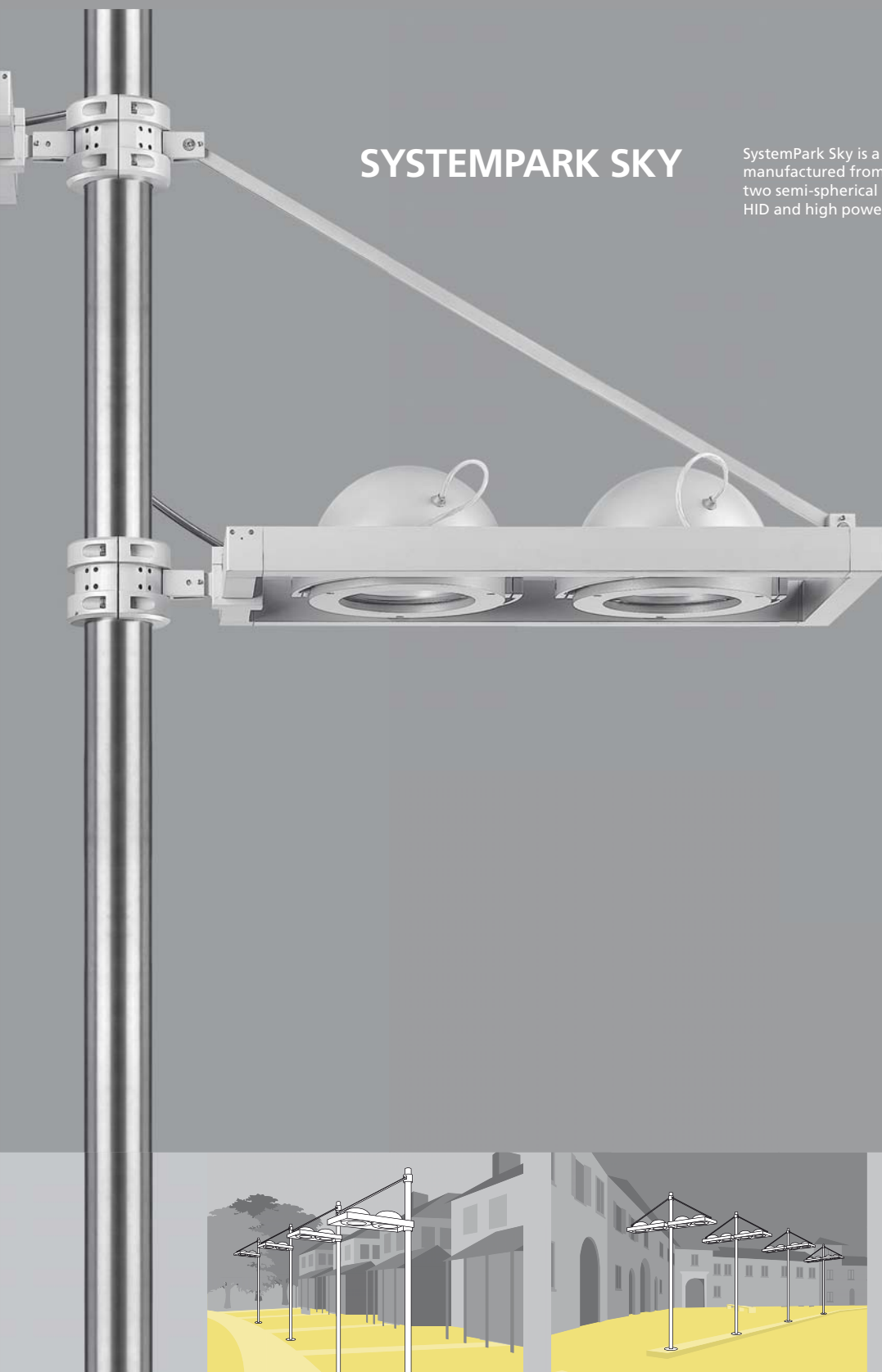
Parking areas



SystemPark Line luminaires can be tilted by moving the position of the pole clamp.

SYSTEMPARK SKY

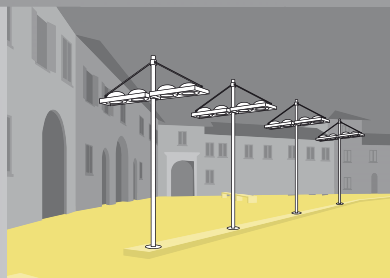
SystemPark Sky is a contemporary designed luminaire manufactured from an extruded aluminium frame containing two semi-spherical die-cast aluminium luminaires suitable for HID and high power compact fluorescent energy saving lamps.



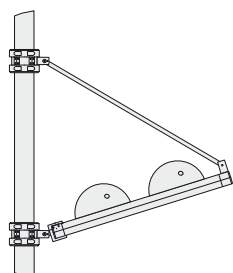
Residential applications



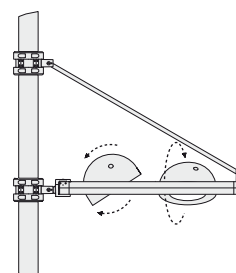
Landscape, public and pedestrian areas



As with all SystemPark luminaires, the SystemPark Sky can be tilted by moving the upper pole clamp.



The semi-spherical Skylum luminaires can be moved 350° in all directions.



SYSTEMPARK SQUARE 150 SQUARE 400

Post or wall mounted luminaire c/w integral control gear suitable for HID lamps (sodium and metal halide).

Die-cast aluminium body.

High impact glass with silk-screen masking secured into a die-cast aluminium frame.

Anti-aging silicone gasket.

High purity aluminium reflectors anodised and polished.

Outreach arms in die-cast aluminium painted finish.

Die-cast aluminium pole fixing clamps.

Aluminium support rod painted finish.

Stainless steel external screws.

SQUARE 150 version complete with PG11 tear proof cable for H05RN-F 3G1, H05RN-F 2x1,5mm² Ø5-10 mm(CLASS II).

SQUARE 400 version complete with M20x1.5 tear proof cable for H05RN-F 3G1,5 mm² Ø 10/14 mm, H05RN-F 2x1,5 mm² (CLASS II).

Optics: symmetrical (S), asymmetrical (A), circular (C), street lighting (WR) and asymmetrical pedestrian crossing (Zebra).

SYSTEMPARK SQUARE LED

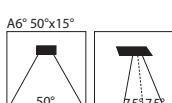
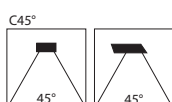
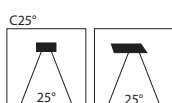
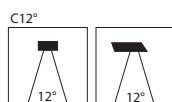
High power, high luminous flux LED.

Integral transformer / driver developed to optimize the power supply and lumen output of the LED.

Supply: 220-240V, 50/60Hz

Wide variety of optics; Narrow beam 12°, Medium beam 25°, Wide beam 45°. Horizontal and vertical ellipse 15°x45° beam. Asymmetrical 15°x50° beam lmax 6°.

SYSTEMPARK SQUARE 150

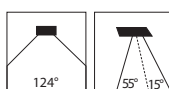


SYSTEMPARK SQUARE 150-LED 6000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL = Cosφ ≥ 0,9	Code	Notes
n.36 led 350mA	39,6W	6000	C 12°	97	I	ETRC	•	06024997		
n.36 led 350mA	39,6W	6000	C 12°	96	I	ETRC	•	06025096		
n.36 led 350mA	39,6W	6000	C 25°	97	I	ETRC	•	06025197		
n.36 led 350mA	39,6W	6000	C 25°	96	I	ETRC	•	06025296		
n.36 led 350mA	39,6W	6000	C 45°	97	I	ETRC	•	06025397		
n.36 led 350mA	39,6W	6000	C 45°	96	I	ETRC	•	06025496		
n.36 led 350mA	39,6W	6000	ELL 45°x15°	97	I	ETRC	•	06025597		
n.36 led 350mA	39,6W	6000	ELL 45°x15°	96	I	ETRC	•	06025696		
n.36 led 350mA	39,6W	6000	ELL 15°x45°	97	I	ETRC	•	06025797		
n.36 led 350mA	39,6W	6000	ELL 15°x45°	96	I	ETRC	•	06025896		
n.36 led 350mA	39,6W	6000	A 6°	97	I	ETRC	•	06025997		
n.36 led 350mA	39,6W	6000	A 6°	96	I	ETRC	•	06026096		

SYSTEMPARK SQUARE 150-LED 3000 K

n.36 led 350mA	39,6W	3000	C 12°	97	I	ETRC	•	06026197		
n.36 led 350mA	39,6W	3000	C 12°	96	I	ETRC	•	06026296		
n.36 led 350mA	39,6W	3000	C 25°	97	I	ETRC	•	06026397		
n.36 led 350mA	39,6W	3000	C 25°	96	I	ETRC	•	06026496		
n.36 led 350mA	39,6W	3000	C 45°	97	I	ETRC	•	06026597		
n.36 led 350mA	39,6W	3000	C 45°	96	I	ETRC	•	06026696		
n.36 led 350mA	39,6W	3000	ELL 45°x15°	97	I	ETRC	•	06026797		
n.36 led 350mA	39,6W	3000	ELL 45°x15°	96	I	ETRC	•	06026896		
n.36 led 350mA	39,6W	3000	ELL 15°x45°	97	I	ETRC	•	06026997		
n.36 led 350mA	39,6W	3000	ELL 15°x45°	96	I	ETRC	•	06027096		
n.36 led 350mA	39,6W	3000	A 6°	97	I	ETRC	•	06027197		
n.36 led 350mA	39,6W	3000	A 6°	96	I	ETRC	•	06027296		



SYSTEMPARK SQUARE 150-LED 6000 K / WR

n.20 led 350mA	20W	6000	SR	97	I	ETRC	•	06024597		
n.20 led 350mA	20W	6000	SR	96	I	ETRC	•	06024696		
n.20 led 350mA	20W	6000	SR	97	II	ETRC	•	06024797		
n.20 led 350mA	20W	6000	SR	96	II	ETRC	•	06024896		

SYSTEMPARK SQUARE 150-LED 4200 K / WR

n.20 led 350mA	20W	4200	SR	97	I	ETRC	•	06039597		
n.20 led 350mA	20W	4200	SR	96	I	ETRC	•	06039496		
n.20 led 350mA	20W	4200	SR	97	II	ETRC	•	06039797		
n.20 led 350mA	20W	4200	SR	96	II	ETRC	•	06039696		

SYSTEMPARK SQUARE 150-LED 3000 K / WR

n.20 led 350mA	20W	3000	SR	97	I	ETRC	•	06032397		
n.20 led 350mA	20W	3000	SR	96	I	ETRC	•	06032496		
n.20 led 350mA	20W	3000	SR	97	II	ETRC	•	06032597		
n.20 led 350mA	20W	3000	SR	96	II	ETRC	•	06032696		

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

97

96

CLASS I

CLASS II

IP 66

IK 08

5J

F

KG

Max 5,1kg

1m

0,028m²

0,077m²

03

Depending on the Models

CE

328

276

292

276

SYSTEMPARK SQUARE 150

LED		N°36-39,6W
LED		N°20-20W
MD		RX7s 70÷150W HQI-TS MH-TD/CDM-TD
MT		G12 70÷150W CDM-T HQI-T/HCI-T

**SYSTEMLIGHT SQUARE 150/S****Symmetrical reflector**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
RX7s	70W	SD-MD		S	97	I	CR		•	05253997	•	
RX7s	70W	SD-MD		S	96	I	CR		•	05254096	•	
RX7s	150W	SD-MD		S	97	I	CR		•	05254197	•	
RX7s	150W	SD-MD		S	96	I	CR		•	05254296	•	
RX7s	70W	SD-MD		S	97	II	CR		•	05276397	•	
RX7s	70W	SD-MD		S	96	II	CR		•	05276496	•	
RX7s	150W	SD-MD		S	97	II	CR		•	05276597	•	
RX7s	150W	SD-MD		S	96	II	CR		•	05276696	•	

**SYSTEMLIGHT SQUARE 150/A****Asymmetrical reflector**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
RX7s	70W	SD-MD		A	97	I	CR		•	05254397	•	
RX7s	70W	SD-MD		A	96	I	CR		•	05254496	•	
RX7s	150W	SD-MD		A	97	I	CR		•	05254597	•	
RX7s	150W	SD-MD		A	96	I	CR		•	05254696	•	
RX7s	70W	SD-MD		A	97	II	CR		•	05276797	•	
RX7s	70W	SD-MD		A	96	II	CR		•	05276896	•	
RX7s	150W	SD-MD		A	97	II	CR		•	05276997	•	
RX7s	150W	SD-MD		A	96	II	CR		•	05277096	•	

**SYSTEMLIGHT SQUARE 150/C****Circular reflector**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
RX7s	70W	SD-MD		C	97	I	CR		•	05254797	•	
RX7s	70W	SD-MD		C	96	I	CR		•	05254896	•	
RX7s	150W	SD-MD		C	97	I	CR		•	05254997	•	
RX7s	150W	SD-MD		C	96	I	CR		•	05255096	•	
RX7s	70W	SD-MD		C	97	II	CR		•	05277197	•	
RX7s	70W	SD-MD		C	96	II	CR		•	05277296	•	
RX7s	150W	SD-MD		C	97	II	CR		•	05277397	•	
RX7s	150W	SD-MD		C	96	II	CR		•	05277496	•	

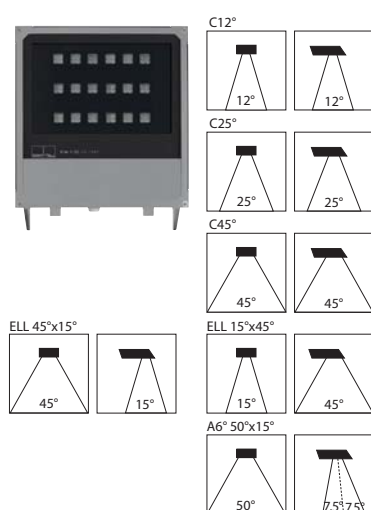
**SYSTEMLIGHT SQUARE 150/WR****Roadway reflector**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
G12	35W	MT		SR	97	I	CR		•	05365397	•	
G12	35W	MT		SR	96	I	CR		•	05365496	•	
G12	70W	MT		SR	97	I	CR		•	05287197	•	
G12	70W	MT		SR	96	I	CR		•	05287296	•	
G12	150W	MT		SR	97	I	CR		•	05287397	•	
G12	150W	MT		SR	96	I	CR		•	05287496	•	
G12	35W	MT		SR	97	II	CR		•	05365597	•	
G12	35W	MT		SR	96	II	CR		•	05365696	•	
G12	70W	MT		SR	97	II	CR		•	05287497	•	
G12	70W	MT		SR	96	II	CR		•	05287596	•	
G12	150W	MT		SR	97	II	CR		•	05287697	•	
G12	150W	MT		SR	96	II	CR		•	05287796	•	

SYSTEMPARK SQUARE 400

SYSTEMPARK SQUARE 400 - LED 6000 K

6000 K



6000 K

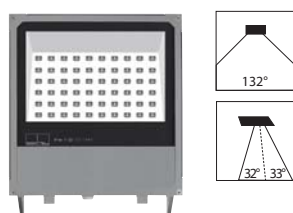
Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
n.72 led 350mA	79,2W	6000	C 12°	97	I	ETRC		•		06044497	
n.72 led 350mA	79,2W	6000	C 12°	96	I	ETRC		•		06044396	
n.72 led 350mA	79,2W	6000	C 25°	97	I	ETRC		•		06044697	
n.72 led 350mA	79,2W	6000	C 25°	96	I	ETRC		•		06044596	
n.72 led 350mA	79,2W	6000	C 45°	97	I	ETRC		•		06044897	
n.72 led 350mA	79,2W	6000	C 45°	96	I	ETRC		•		06044796	
n.72 led 350mA	79,2W	6000	ELL 45°x15°	97	I	ETRC		•		06045097	
n.72 led 350mA	79,2W	6000	ELL 45°x15°	96	I	ETRC		•		06044996	
n.72 led 350mA	79,2W	6000	ELL 15°x45°	97	I	ETRC		•		06045297	
n.72 led 350mA	79,2W	6000	ELL 15°x45°	96	I	ETRC		•		06045196	
n.72 led 350mA	79,2W	6000	A 6°	97	I	ETRC		•		06045497	
n.72 led 350mA	79,2W	6000	A 6°	96	I	ETRC		•		06045396	

3000 K

n.72 led 350mA	79,2W	3000	C 12°	97	I	ETRC	•	06045697		
n.72 led 350mA	79,2W	3000	C 12°	96	I	ETRC	•	06045596		
n.72 led 350mA	79,2W	3000	C 25°	97	I	ETRC	•	06045897		
n.72 led 350mA	79,2W	3000	C 25°	96	I	ETRC	•	06045796		
n.72 led 350mA	79,2W	3000	C 45°	97	I	ETRC	•	06046097		
n.72 led 350mA	79,2W	3000	C 45°	96	I	ETRC	•	06045996		
n.72 led 350mA	79,2W	3000	ELL 45°x15°	97	I	ETRC	•	06046297		
n.72 led 350mA	79,2W	3000	ELL 45°x15°	96	I	ETRC	•	06046196		
n.72 led 350mA	79,2W	3000	ELL 15°x45°	97	I	ETRC	•	06046497		
n.72 led 350mA	79,2W	3000	ELL 15°x45°	96	I	ETRC	•	06046396		
n.72 led 350mA	79,2W	3000	A 6°	97	I	ETRC	•	06046697		
n.72 led 350mA	79,2W	3000	A 6°	96	I	ETRC	•	06046596		

SYSTEMPARK SQUARE 400 - LED WR

6000 K



n.60 led 350mA	60W	6000	SR	97	I	ETRC	•	06046897		
n.60 led 350mA	60W	6000	SR	96	I	ETRC	•	06046796		
n.60 led 350mA	60W	6000	SR	97	II	ETRC	•	06047497		
n.60 led 350mA	60W	6000	SR	96	II	ETRC	•	06047396		

4200 K

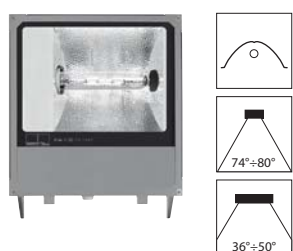
n.60 led 350mA	60W	4200	SR	97	I	ETRC	•	06047097		
n.60 led 350mA	60W	4200	SR	96	I	ETRC	•	06046996		
n.60 led 350mA	60W	4200	SR	97	II	ETRC	•	06047697		
n.60 led 350mA	60W	4200	SR	96	II	ETRC	•	06047596		

3000 K

n.60 led 350mA	60W	3000	SR	97	I	ETRC	•	06047297		
n.60 led 350mA	60W	3000	SR	96	I	ETRC	•	06047196		
n.60 led 350mA	60W	3000	SR	97	II	ETRC	•	06047897		
n.60 led 350mA	60W	3000	SR	96	II	ETRC	•	06047796		

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

SYSTEMPARK SQUARE 400/S Symmetrical reflector



E40	150W	ST-MT	S	97	I	CR	•	05255197	•
E40	150W	ST-MT	S	96	I	CR	•	05255296	•
E40	250W	ST-MT	S	97	I	CR	•	05255397	•
E40	250W	ST-MT	S	96	I	CR	•	05255496	•
E40	400W	ST-MT	S	97	I	CR	•	05255597	•
E40	400W	ST-MT	S	96	I	CR	•	05255696	•
E40	150W	ST-MT	S	97	II	CRF	•	05277597	
E40	150W	ST-MT	S	96	II	CRF	•	05277696	
E40	250W	ST-MT	S	97	II	CRF	•	05277797	
E40	250W	ST-MT	S	96	II	CRF	•	05277896	
E40	400W	ST-MT	S	97	II	CRF	•	05277997	
E40	400W	ST-MT	S	96	II	CRF	•	05278096	

With fuse.

97 96

CLASS I

CLASS II

IP 66

IK 07

4J

KG

Max 13,3kg

1m

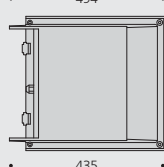
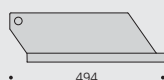
0,062m²

0,177m²

03

Depending on the Models

CE



SYSTEMPARK SQUARE 400 LED

LED		N°72-79,2W
LED		N°60-60W

SYSTEMPARK SQUARE 400

MT		E40	Max 400W	CDO-TT HQI-T/D HQI-BT/D
MD		RX7s	150W	HQI-TS MH-TD
MD		Fc2	250W	HQI-TS MH-TD
ST		E40	Max 400W	NAV-T/SON-T

SYSTEMPARK SQUARE 400/A Asymmetrical reflector

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes	
E40	150W	ST-MT		A	97	I	CR	•		05255797	•	
E40	150W	ST-MT		A	96	I	CR	•		05255896	•	
E40	250W	ST-MT		A	97	I	CR	•		05255997	•	
E40	250W	ST-MT		A	96	I	CR	•		05256096	•	
E40	400W	ST-MT		A	97	I	CR	•		05256197	•	
E40	400W	ST-MT		A	96	I	CR	•		05256296	•	
E40	150W	ST-MT		A	97	II	CRF	•		05278197	⇒	
E40	250W	ST-MT		A	96	II	CRF	•		05278296	⇒	
E40	250W	ST-MT		A	97	II	CRF	•		05278397	⇒	
E40	250W	ST-MT		A	96	II	CRF	•		05278496	⇒	
E40	400W	ST-MT		A	97	II	CRF	•		05278597	⇒	
E40	400W	ST-MT		A	96	II	CRF	•		05278696	⇒	

**SYSTEMPARK SQUARE 400/C** Circular reflector

RX7s	150W	MD		C	97	I	CR	•		05256397	•	
RX7s	150W	MD		C	96	I	CR	•		05256496	•	
Fc2	250W	MD		C	97	I	CR	•		05256597	•	
Fc2	250W	MD		C	96	I	CR	•		05256696	•	
RX7s	150W	MD		C	97	II	CRF	•		05278797	⇒	
RX7s	150W	MD		C	96	II	CRF	•		05278896	⇒	
Fc2	250W	MD		C	97	II	CRF	•		05278997	⇒	
Fc2	250W	MD		C	96	II	CRF	•		05279096	⇒	

**SYSTEMPARK SQUARE 400/WR**

E40	100W	ST-MT		SR	97	I	CR	•		05328397	•	
E40	100W	ST-MT		SR	96	I	CR	•		05328296	•	
E40	150W	ST-MT		SR	97	I	CR	•		05328597	•	
E40	150W	ST-MT		SR	96	I	CR	•		05328496	•	
E40	250W	ST-MT		SR	97	I	CR	•		05328797	•	
E40	250W	ST-MT		SR	96	I	CR	•		05328696	•	
E40	100W	ST-MT		SR	97	II	CRF	•		05329197	⇒	
E40	100W	ST-MT		SR	96	II	CRF	•		05329096	⇒	
E40	150W	ST-MT		SR	97	II	CRF	•		05329397	⇒	
E40	150W	ST-MT		SR	96	II	CRF	•		05329296	⇒	
E40	250W	ST-MT		SR	97	II	CRF	•		05329597	⇒	
E40	250W	ST-MT		SR	96	II	CRF	•		05329496	⇒	



⇒ With fuse.

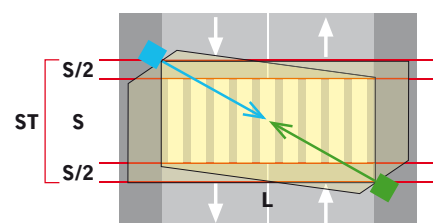
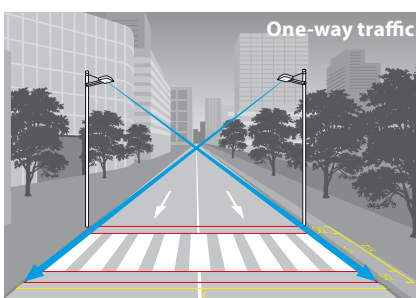
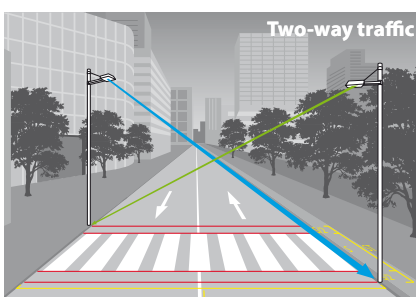
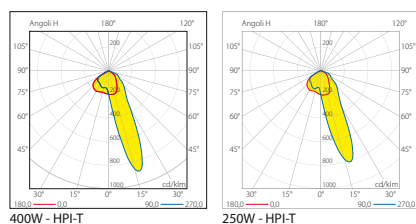
SYSTEMPARK SQUARE 400/ZEBRA

E40	150W	ST-MT		A	97	I	CR	•		05325597	•	
E40	150W	ST-MT		A	96	I	CR	•		05325496	•	
E40	250W	ST-MT		A	97	I	CR	•		05325997	•	
E40	250W	ST-MT		A	96	I	CR	•		05325896	•	
E40	400W	ST-MT		A	97	I	CR	•		05326397	•	
E40	400W	ST-MT		A	96	I	CR	•		05326296	•	
E40	150W	ST-MT		A	97	II	CRF	•		05326597	⇒	
E40	150W	ST-MT		A	96	II	CRF	•		05326496	⇒	
E40	250W	ST-MT		A	97	II	CRF	•		05326997	⇒	
E40	250W	ST-MT		A	96	II	CRF	•		05326896	⇒	
E40	400W	ST-MT		A	97	II	CRF	•		05327397	⇒	
E40	400W	ST-MT		A	96	II	CRF	•		05327296	⇒	

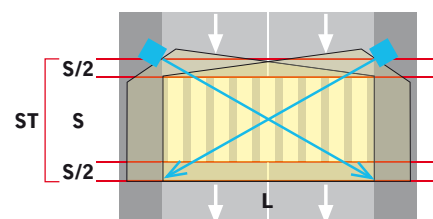


⇒ With fuse.

The SQUARE 02/ZEBRA range are designed for use on pedestrian crossings. They are available for use with high pressure sodium, or metal halide to take advantage of high colour rendering light sources in sensitive crossing areas to highlight pedestrian traffic.



L = road width
 S = zebra crossing width
 ST = total width of illumination area
 Hmin = minimum height installation
 INSTALLATION Hmin = 1,5xST



SYSTEMPARK LINE

Post or wall mounted luminaire
c/w integral control gear.
Extruded aluminium housing c/w
die-cast aluminium end caps.
High impact glass cover with silk
screen masking, hinges to body
for easy maintenance.
Anti-ageing silicone gaskets.
High purity (99.85%) aluminium
reflector anodised and polished.
Adjustable lampholder position
for FD (T5) versions, provides two
types of distribution.
Die-cast aluminium pole mounting
clamps.
Aluminium support rod painted
finish.
Stainless steel external screws.

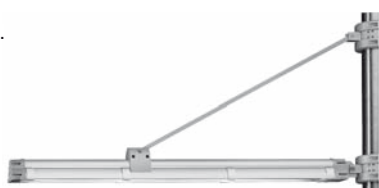


SYSTEMPARK LINE 100 LED 6000 K / 4200 K / 3000 K

Lampholder	W	Ikcos	*K	Optic	Colour	Class	Wiring	EEL =	Coq ≥ 0,9	Code	Notes	
n.16 led 350mA	16W		6000	96	II	ETRC			•	07037696		
n.16 led 350mA	16W		6000	97	II	ETRC			•	07037997		
n.16 led 350mA	16W		4200	96	II	ETRC			•	07041396		
n.16 led 350mA	16W		4200	97	II	ETRC			•	07041497		
n.16 led 350mA	16W		3000	96	II	ETRC			•	07038696		
n.16 led 350mA	16W		3000	97	II	ETRC			•	07038797		

SYSTEMPARK LINE 100

G5	21W	FH	S	97	II	ETRC	A2	•	05256797		•
G5	21W	FH	S	96	II	ETRC	A2	•	05256896		•
G5	39W	FQ	S	97	II	ETRC	A2	•	05256997		•
G5	39W	FQ	S	96	II	ETRC	A2	•	05257096		•

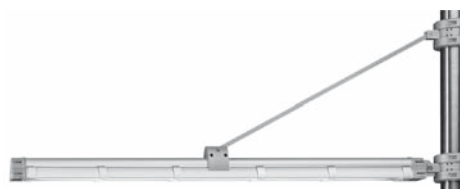


SYSTEMPARK LINE 130 LED 6000 K / 4200 K / 3000 K

n.24 led 350mA	24W		6000	96	II	ETRC		•	07037796		
n.24 led 350mA	24W		6000	97	II	ETRC		•	07038097		
n.24 led 350mA	24W		4200	96	II	ETRC		•	07041596		
n.24 led 350mA	24W		4200	97	II	ETRC		•	07041697		
n.24 led 350mA	24W		3000	96	II	ETRC		•	07038896		
n.24 led 350mA	24W		3000	97	II	ETRC		•	07038997		

SYSTEMPARK LINE 130

2G11	2x55W	FSD	S	97	II	ETRC	A2	•	05257197		•
2G11	2x55W	FSD	S	96	II	ETRC	A2	•	05257296		•
G5	28W	FH	S	97	II	ETRC	A2	•	05257397		•
G5	28W	FH	S	96	II	ETRC	A2	•	05257496		•
G5	54W	FQ	S	97	II	ETRC	A2	•	05257597		•
G5	54W	FQ	S	96	II	ETRC	A2	•	05257696		•



SYSTEMPARK LINE 160 LED 6000 K / 4200 K / 3000 K

n.32 led 350mA	32W		6000	96	II	ETRC		•	07037896		
n.32 led 350mA	32W		6000	97	II	ETRC		•	07038197		
n.32 led 350mA	32W		4200	96	II	ETRC		•	07041796		
n.32 led 350mA	32W		4200	97	II	ETRC		•	07041897		
n.32 led 350mA	32W		3000	96	II	ETRC		•	07039096		
n.32 led 350mA	32W		3000	97	II	ETRC		•	07039197		

SYSTEMPARK LINE 160

2G11	2x80W	FSD	S	97	II	ETRC	A2	•	05257797		•
2G11	2x80W	FSD	S	96	II	ETRC	A2	•	05257896		•
G5	35W	FH	S	97	II	ETRC	A2	•	05257997		•
G5	35W	FH	S	96	II	ETRC	A2	•	05258096		•
G5	49W	FQ	S	97	II	ETRC	A2	•	05258197		•
G5	49W	FQ	S	96	II	ETRC	A2	•	05258296		•
G5	80W	FQ	S	97	II	ETRC	A2	•	05258397		•
G5	80W	FQ	S	96	II	ETRC	A2	•	05258496		•

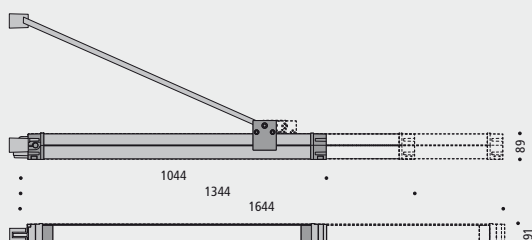
Complete with electronic ballast non dimmable 220÷240V 50/60Hz.



KG
Max 5,1kg



Depending on the Models



SYSTEMPARK LINE

LED		N°32-32W
FH	G5	Max 35W LUMILUX FH MASTER TLS HE
FQ	G5	Max 80W LUMILUX FQ MASTER TLS HO
FSD	2G11	Max 2x80W DULUX-L PL-L

SYSTEMPARK SKY

Post mounted luminaire.

Body and trim in painted die-cast aluminium.

Silk-screened transparent glass diffuser.

Silicone gaskets.

Anodised aluminium reflector.

Adjustment system components for regulating the product in painted die-cast aluminium.

Housing in extruded aluminium.

Post mount component in painted die-cast aluminium.

Tie rod in painted aluminium.

SYSTEMPARK SKY

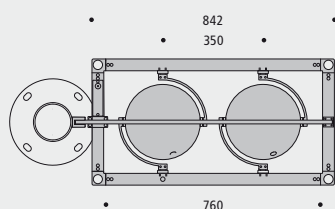
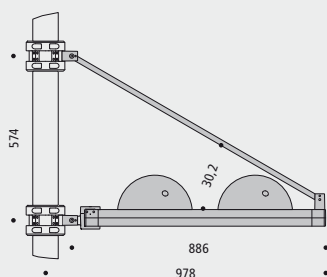
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G12	2x70W	MT		C	97	I	CR			• 05258597	
G12	2x70W	MT		C	96	I	CR			• 05258696	
GX24d-3	2x26W	FSM		C	97	I	CR			• 05258797	
GX24d-3	2x26W	FSM		C	96	I	CR			• 05258896	

SYSTEMPARK SKY/WR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G12	2x70W	MT		WR	97	I	CR			• 05348097	
G12	2x70W	MT		WR	96	I	CR			• 05348196	

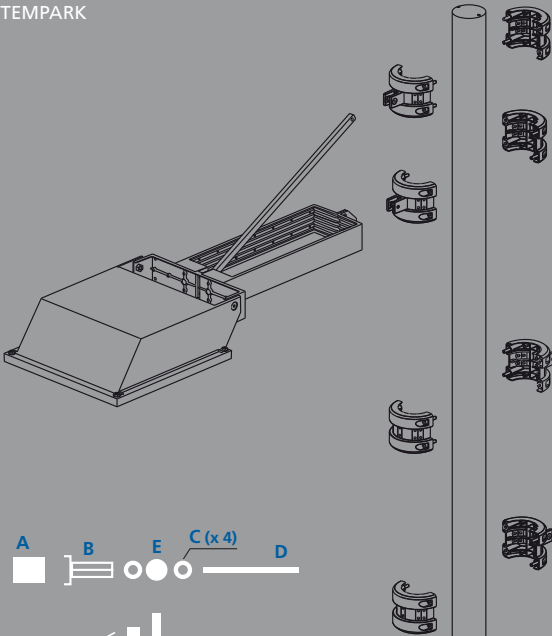


97	96	CLASS I	CLASS II	IP 66	IK 02 0,2J	KG Max 13,5kg

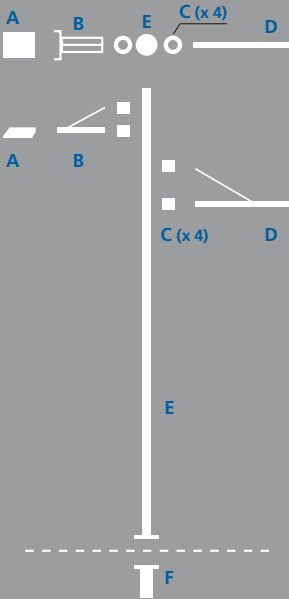


SYSTEMPARK SKY

MT		G12	2x70W	CDM-T HQI-T/HCI-T
FSM		Gx24d-3	2x26W	DULUX-T PL-T 2PIN



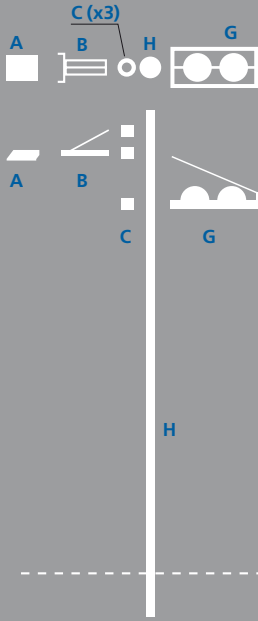
SystemPark is designed for flexibility based around a few basic components composing of post and, luminaire. Correct number of installation kits to suit one, two, three or four luminaires. An outreach bar is required for each SQUARE luminaire (For combinations that require more than one Square 400 luminaire, please contact the SBP Urban Lighting Technical Service Department).



COMPLETE UNIT
1A+1B+4C+1D+1E+1F = 9 codes

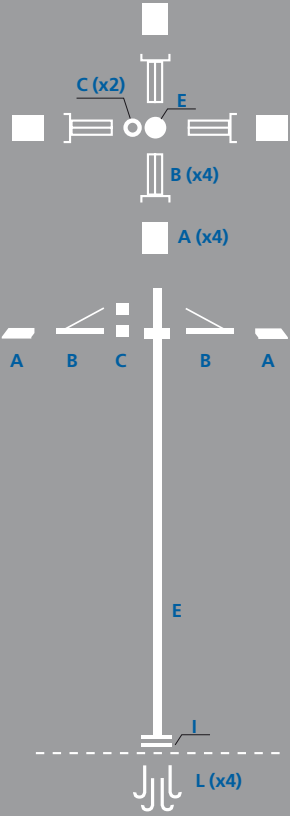
COMPONENTS	
A	1 Square luminaire
B	1 post bar for Square
C	4 post mounting kits
D	1 Line luminaire
E	1 pole FT
F	1 ground piece

The examples show a few typical combinations, along with the relevant lists of necessary components. For the correct codes, please see the following pages.



COMPLETE UNIT
1A+1B+3C+1D+1E = 7 codes

COMPONENTS	
A	1 Square luminaire
B	1 post bar for Square
C	3 post mounting kits
G	1 Sky luminaire
H	1 pole INT

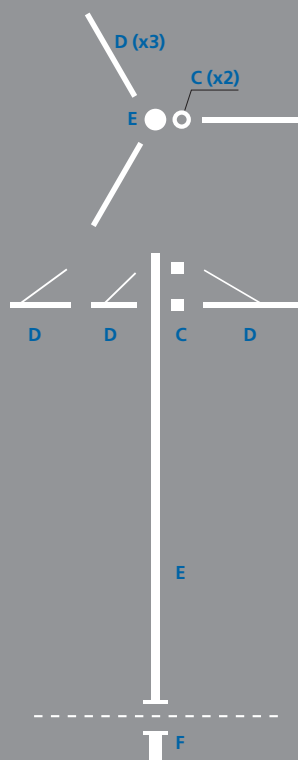
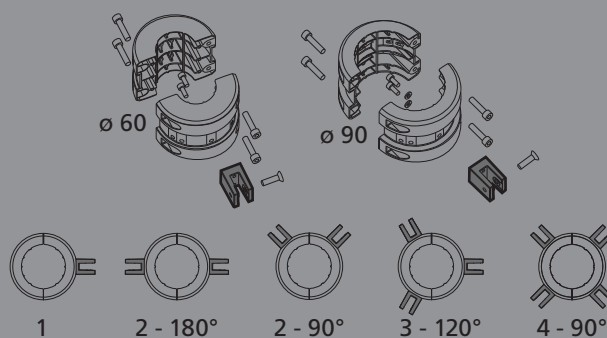


COMPLETE UNIT
4A+4B+2C+1D+1E+4F = 16 codes

COMPONENTS	
A	4 Square luminaires
B	4 staffe per palo
C	2 post mounting kits
D	1 pole FT
E	1 base plate
L	4 anchor bolts

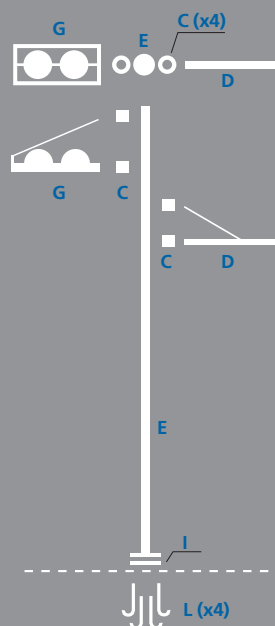


Luminaires are designed for ease of installation and maintenance. E.g. the SQUARE luminaire cover glass hinges to the body of the luminaire.

**COMPLETE UNIT**

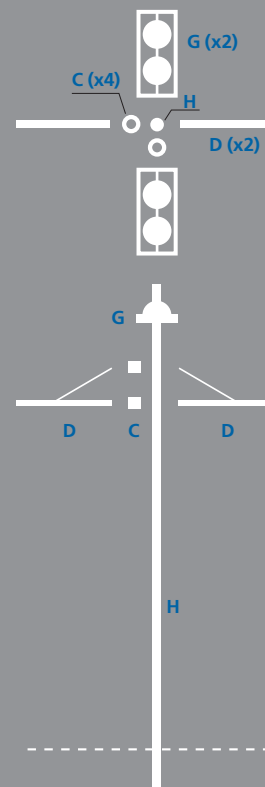
3A+2B+1C+1D = 7 codes

COMPONENTS
D 3 Line luminaires
C 2 post mounting kits
E 1 pole FT
F 1 ground piece

**COMPLETE UNIT**

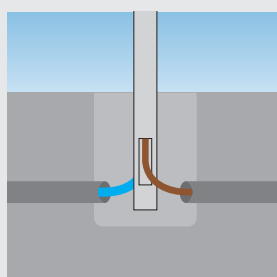
1A+4B+1C+1D+1E+4F = 12 codes

COMPONENTS
G 1 Sky luminaire
C 4 post mounting kits
D 1 Line luminaire
E 1 pole FT
I 1 base plate
L 4 anchor bolts

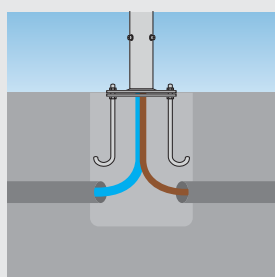
**COMPLETE UNIT**

2A+2B+4C+1D = 9 codes

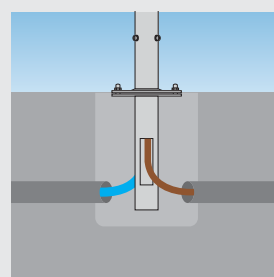
COMPONENTS
G 2 Sky luminaires
D 2 Line luminaires
C 4 post mounting kits
H 1 pole INT



Root mounted (INT) mounted by concrete.



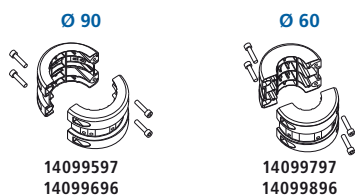
Flange mounting (FT) with anchor bolts secured by concrete. The baseplate, which also acts as a template, ensures a level fixing.



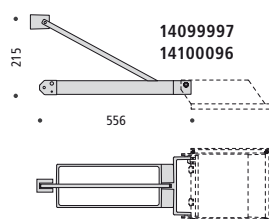
Flange plate fixing with root (FT) secured by concrete. For correct concrete base dimensions refer to information pages on poles.

Accessories for advertising banners.

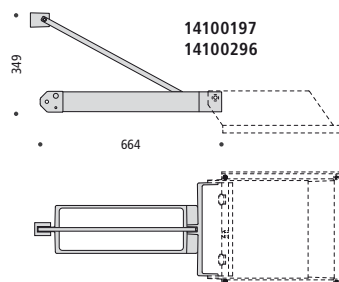




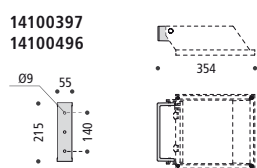
SystemPark SQUARE 150



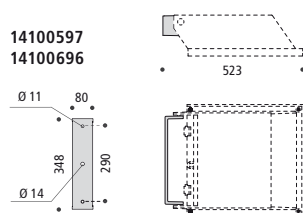
SystemPark SQUARE 400



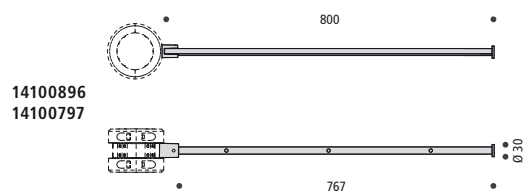
SystemPark SQUARE 150



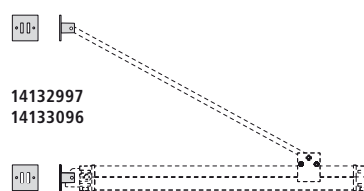
SystemPark SQUARE 400



Code	Denomination	Colour	Description
14098704	A0474/304-3,5	04	Pole Ø 90 mm F.T. 3,5 m c/w flange
14098804	A0474/304-5	04	Pole Ø 90 mm F.T. 5 m c/w flange
14098904	A0474/304-6	04	Pole Ø 90 mm F.T. 6 m c/w flange
14099004	A0475/304-5+1	04	Pole Ø 90 mm INT. (buried) 5+1 m
14099104	A0475/304-6+1	04	Pole Ø 90 mm INT. (buried) 6+1 m
14099220	A0476		Base plate/1 F.T. post
14099320	A0477		Anchor bolt Ø 18 X 400
14099404	A0478	04	Flange plate
14099597	A0479-D90	97	Pole mounting kit Ø 90
14099696	A0479-D90	96	
14099797	A0479-D60	97	Pole mounting kit Ø 60
14099896	A0479-D60	96	
14099997	A0480	97	Pole bars for Square 150
14100096	A0480	96	
14100197	A0481	97	Pole arms for Square 400
14100296	A0481	96	
14100397	A0482	97	Wall arms for Square 150
14100496	A0482	96	
14100597	A0483	97	Wall bars for Square 400
14100696	A0483	96	
14100797	A0484	97	Banner kit
14100896	A0484	96	
14132997	A0537	97	Wall mount kit for Line
14133096	A0537	96	

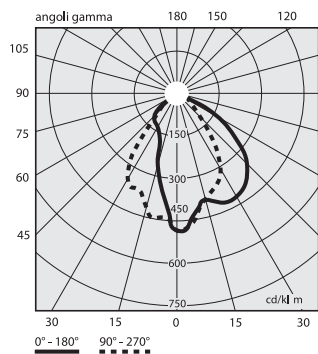


SystemPark LINE

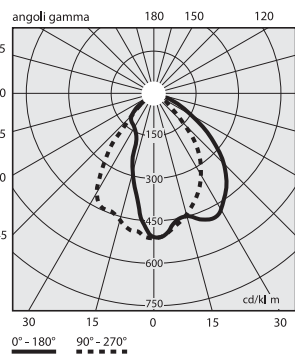


SYSTEMPARK SQUARE

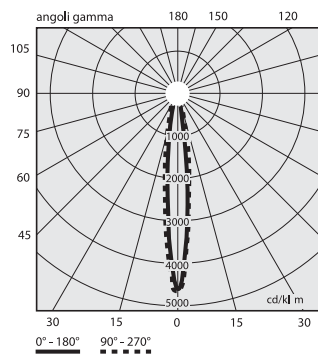
 Square 150/A - Rx7s - 1x70w HQI



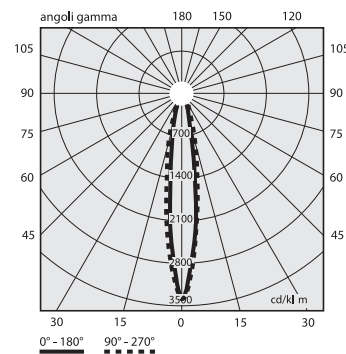
 Square 150/A - Rx7s - 1x150w HCI-TS



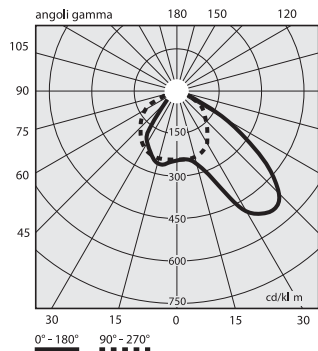
 Square 150/C - Rx7s - 1x70w HQI-T



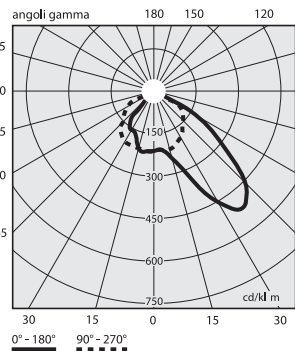
 Square 150/C - Rx7s - 1x150w HCI-TS



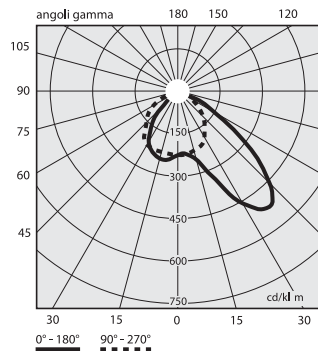
 Square 400/A - E40 - 1x150w CDMTT 150



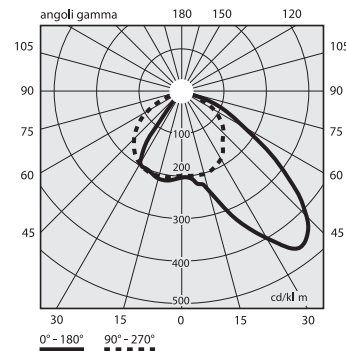
 Square 400/A - E40 - 1x250w HQI-T-250/D



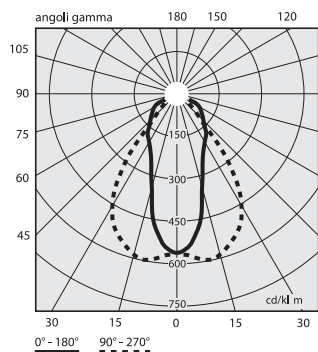
 Square 400/A - E40 - 1x250w HQI-T-250/N/SI



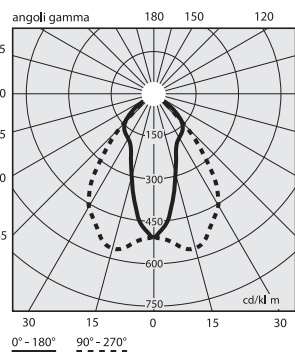
 Square 400/A - E40 - 1x400w HQI-BT-400/D



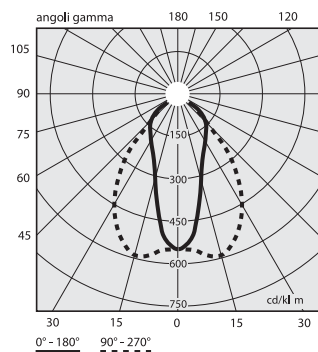
 Square 400/S - E40 - 1x150w CDM TT 150



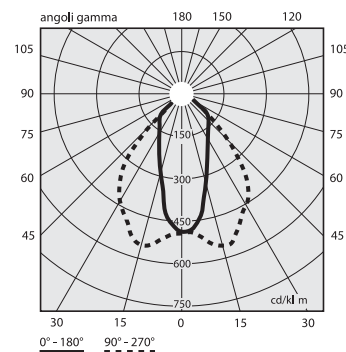
 Square 400/S - E40 - 1x250w HQI-T-250/D

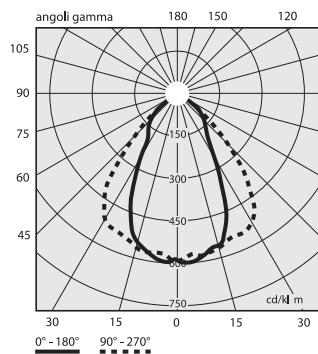
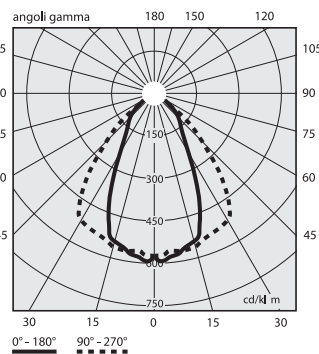
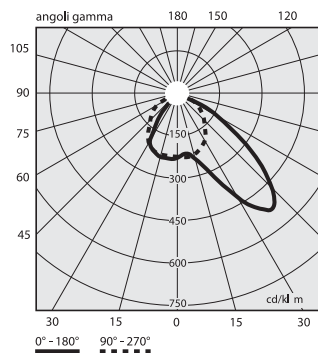
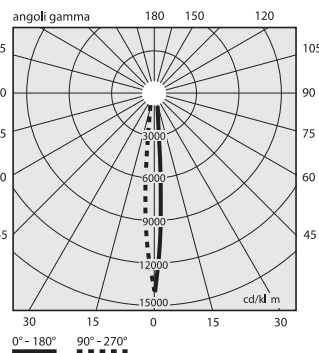
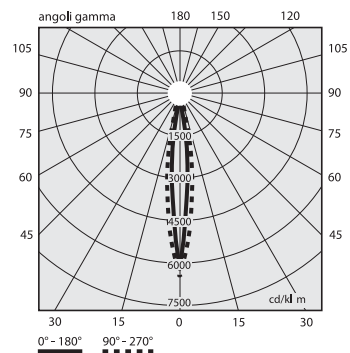
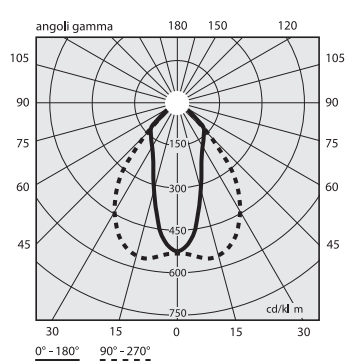


 Square 400/S - E40 - 1x250w HQI-T-250/D



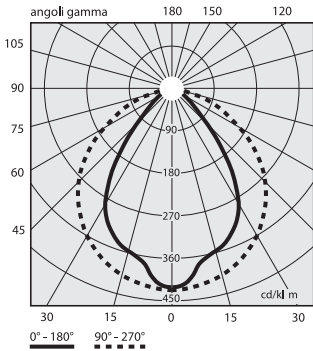
 Square 400/S - E40 - 1x400w HQI-BT-400/D



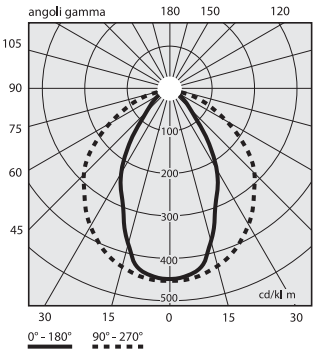
 Square 150/S - Rx7s - 1x70w HQI-T

 Square 150/S - Rx7s - 1x150w HCI-TS

 Square 400/A - E40 - 1x400w HQI-T-250/N/SI

 Square 400/C - Rx7s - 1x150w HQI-TS-150/NDL

 Square 400/C - Fc2 - 1x250w HQI-TS-250/D

 Square 400/S - E40 - 1x400w HQI-T-250/N/SI


SYSTEMPARK LINE

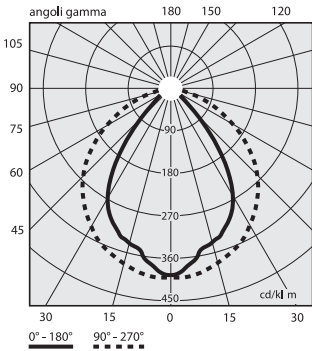
Line 100 (A) - 1x21w FH



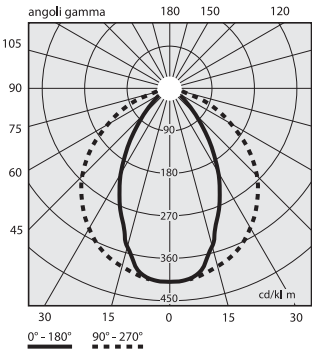
Line 100 (B) - 1x21w FH



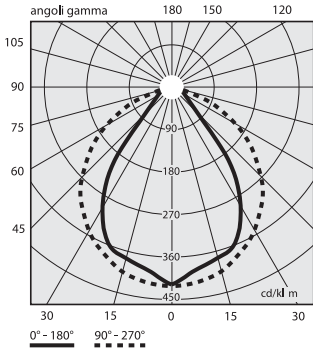
Line 100 (A) - 1x39w FQ



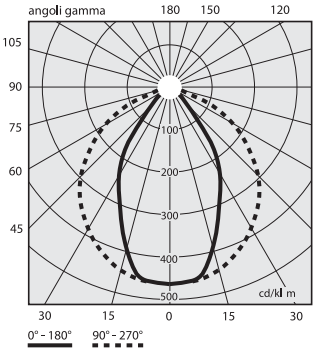
Line 100 (B) - 1x39w FQ



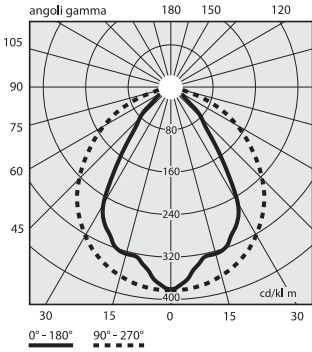
Line 130 (A) - 1x28w FH



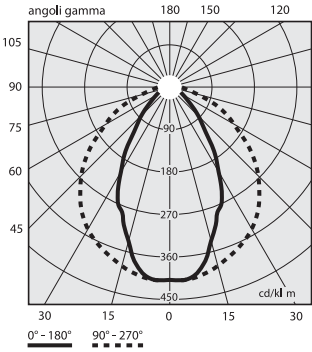
Line 130 (B) - 1x28w FH



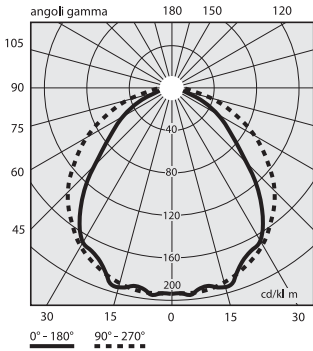
Line 130 (A) - 1x54w FQ



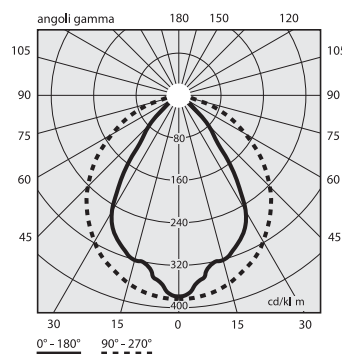
Line 130 (B) - 1x54w FQ



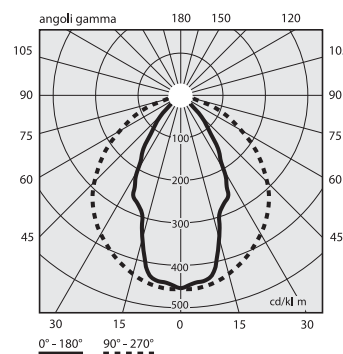
Line 130 - 2x55w FSD



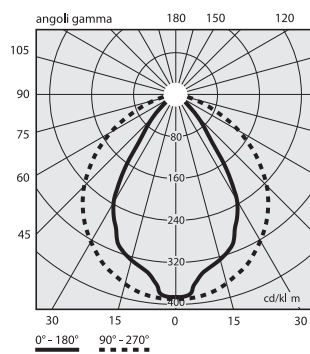
Line 160 (A) - 1x35w FH



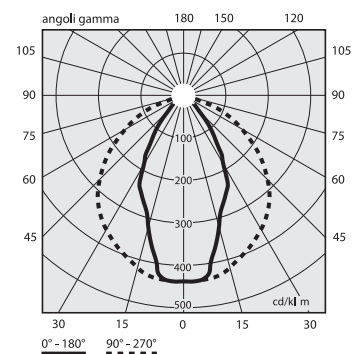
Line 160 (B) - 1x35w FH



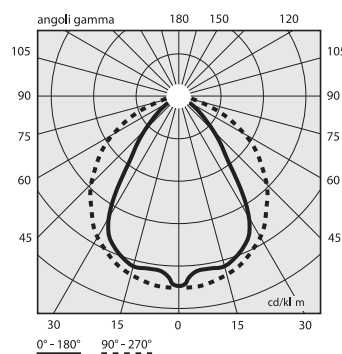
Line 160 (A) - 1x49w FQ



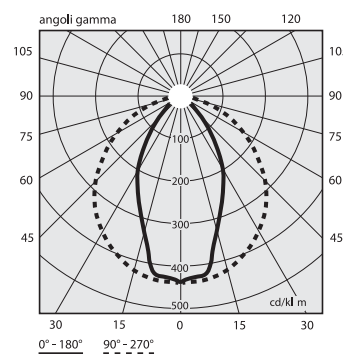
Line 160 (B) - 1x49w FQ



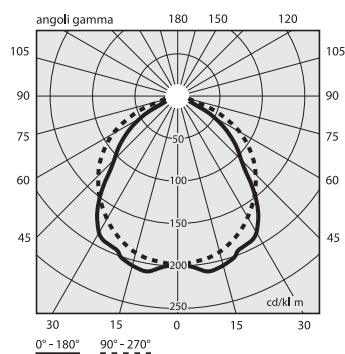
Line 160 (A) - 1x80w FQ



Line 160 (B) - 1x80w FQ

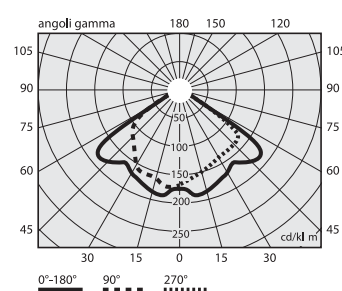


Line 160 - 2x80w FSD

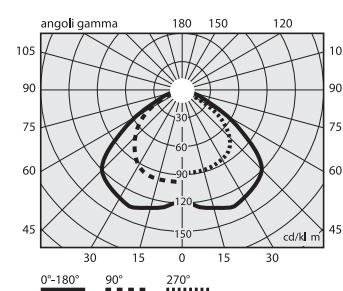


SYSTEMPARK SKY

Sky - 1x70w MT



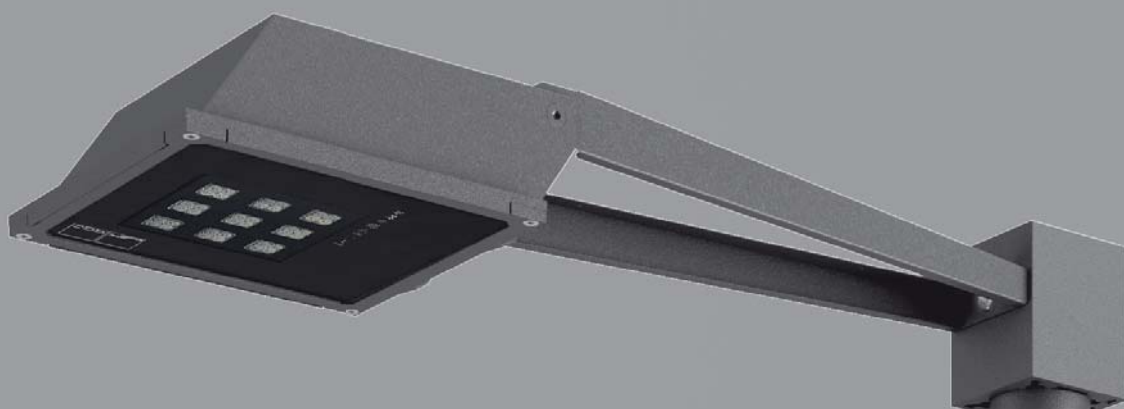
Sky - 1x26w/T FSM



The curves refer to the emission of a single luminaire: the Systempark Sky structure contains two luminaires so for a complete figure, consider two emissions.

SQUARE

design Silvia Paola Pennacchio



SQUARE are a range of high performance compact floodlights with a distinctive linear geometry and shallow depth making them suitable for various contemporary and stylish applications:

- Discreet positioning with minimum visual impact, such as lofts, eaves and terraces.
- Architectural appealing design with high performance.

The SQUARE range is available in two dimensions:

SQUARE 01 – for lamps up to 150 W and high efficiency LED

SQUARE 02 – for lamps up to 400 W and high efficiency LED.

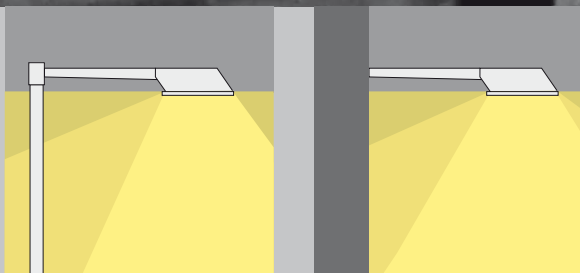
Suitable for a variety of lamp sources with the following light distribution:

- symmetrical
- asymmetrical medium beam
- asymmetrical for the illumination of pedestrian crossings
- circular narrow beam
- street lighting

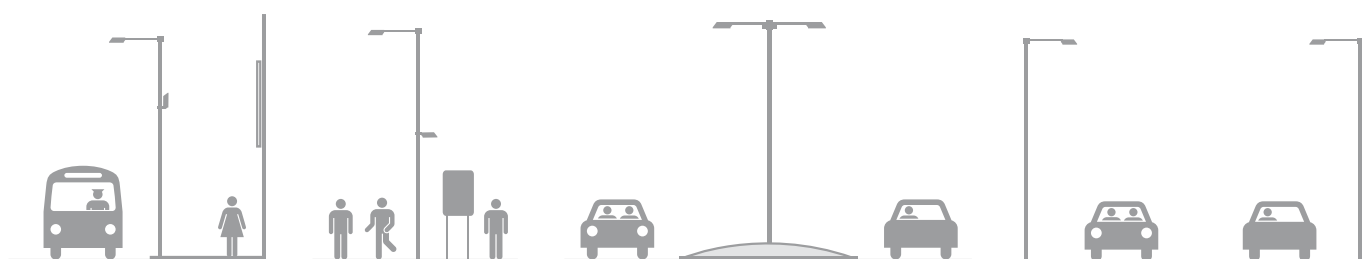
A variety of lens options are available for use with SQUARE 01 LED, SQUARE 02 LED luminaires.

The SQUARE range of luminaires are suitable for use in areas sensitive to sky glow where regulations require strict control of upward light pollution.





Luminaires installed with the optical axis perpendicular to the ground comply with light pollution regulations.



SQUARE 01

SQUARE 02



Body and frame in die-cast aluminium chromate pre-treated finished polyester coated.

Symmetrical, asymmetrical or circular reflectors in high purity aluminium anodised and polished.

High impact glass cover mounted in aluminium frame which hinges down for maintenance.

Silicone rubber anti-ageing gasket.

SQUARE 01: PG11 anti-tearing cable gland for H05RN-F 3G1-1,5 Ø5-10 mm cables.
SQUARE 02: M20x1.5 anti-tearing cable gland for H05RN-F 3G2-2,5 Ø10-14 mm cables.

Stainless steel external screws.

LED high power latest generation high luminous flux luminaire complete with integral transformer / driver designed to supply the LED with correct power supply for optimal efficiency and luminous output.

Power supply 220-240 V 50/60 Hz

Wide range of lens options to suit variety of lighting applications.

Narrow beam 12°

Medium beam 25°

Wide beam 45°

Horizontal and vertical ellipse with beam 15°x45°

Asymmetrical with beam 15°x50° and lmax 6°

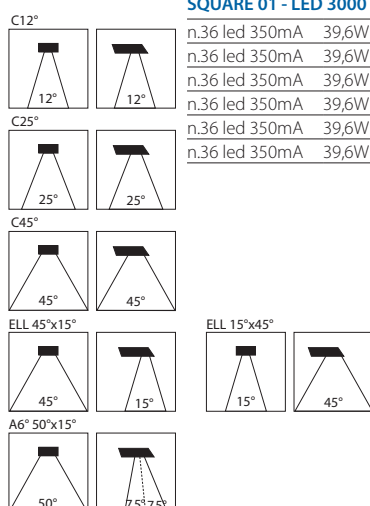
SQUARE 01

SQUARE 01 - LED 6000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EELI = ≥ 0,9	Cosp Code	Notes
n.36 led 350mA	39,6W		6000	C 12°	96	I	ETRC		• 06023396	E
n.36 led 350mA	39,6W		6000	C 25°	96	I	ETRC		• 06023496	E
n.36 led 350mA	39,6W		6000	C 45°	96	I	ETRC		• 06023596	E
n.36 led 350mA	39,6W		6000	ELL 45°x15°	96	I	ETRC		• 06023696	E
n.36 led 350mA	39,6W		6000	ELL 15°x45°	96	I	ETRC		• 06023796	E
n.36 led 350mA	39,6W		6000	A 6° (50°x15°)	96	I	ETRC		• 06023896	E

SQUARE 01 - LED 3000 K

n.36 led 350mA	39,6W		3000	C 12°	96	I	ETRC		• 06023996	E
n.36 led 350mA	39,6W		3000	C 25°	96	I	ETRC		• 06024096	E
n.36 led 350mA	39,6W		3000	C 45°	96	I	ETRC		• 06024196	E
n.36 led 350mA	39,6W		3000	ELL 45°x15°	96	I	ETRC		• 06024296	E
n.36 led 350mA	39,6W		3000	ELL 15°x45°	96	I	ETRC		• 06024396	E
n.36 led 350mA	39,6W		3000	A 6° (50°x15°)	96	I	ETRC		• 06024496	E



Lens	C 12°	C 25°	C 45°			
ØA	0,56m	2056Lux	1,12m	638Lux	2,015m	265Lux
ØB	1,12m	514Lux	2,24m	160Lux	4,03m	66Lux
ØC	1,68m	128Lux	3,66m	40Lux	6,045m	17Lux
ØD	2,24m	82Lux	4,48m	26Lux	8,1m	11Lux

Lens	A 6° (50°x15°)	
bxh/A	2,42m x 0,7m	327Lux
bxh/B	4,84m x 1,4m	82Lux
bxh/C	7,26m x 2,1m	20Lux
bxh/D	9,68m x 2,8m	13Lux

Lens	ELL 45°x15°	
bhx/A	1,73m x 0,535m	763Lux
bhx/B	3,46m x 1,07m	171Lux
bhx/C	5,19m x 1,605m	48Lux
bhx/D	6,92m x 2,14m	31Lux

Lens	ELL 15°x45°	
bhx/A	0,535m x 1,73m	763Lux
bhx/B	3,46m x 1,07m	171Lux
bhx/C	1,605 x 5,19m	48Lux
bhx/D	2,14m x 6,92m	31Lux

SQUARE 01 - LED 6000 K / WR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EELI = ≥ 0,9	Cosp Code	Notes
n.20 led 350mA	20W		6000		96	I	ETRC		• 06031996	E
n.20 led 350mA	20W		6000		96	II	ETRC		• 06032096	E

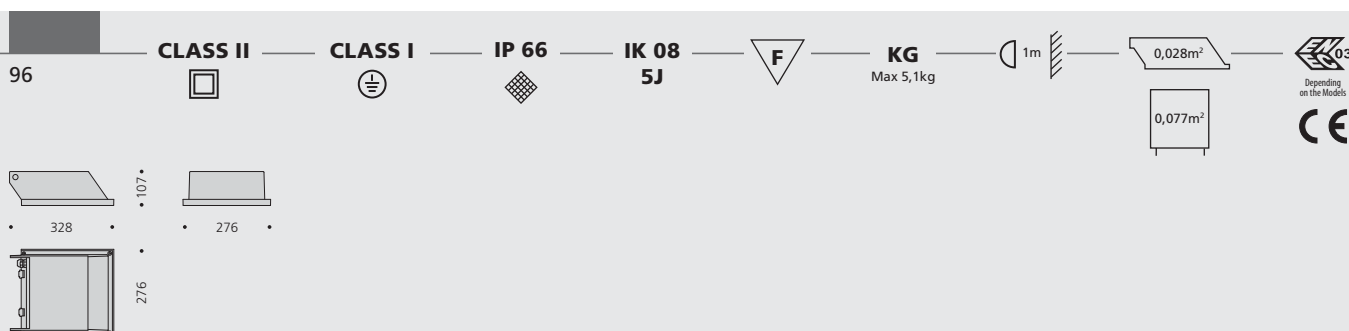
SQUARE 01 - LED 4200 K / WR

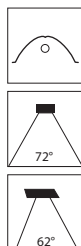
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EELI = ≥ 0,9	Cosp Code	Notes
n.20 led 350mA	20W		4200		96	I	ETRC		• 06039896	E
n.20 led 350mA	20W		4200		96	II	ETRC		• 06039996	E

SQUARE 01 - LED 4200 K / WR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EELI = ≥ 0,9	Cosp Code	Notes
n.20 led 350mA	20W		3000		96	I	ETRC		• 06032196	E
n.20 led 350mA	20W		3000		96	II	ETRC		• 06032296	E

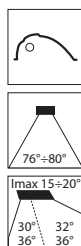
Complete with electronic ballast non dimmable 220÷240V 50/60Hz.





SQUARE 01 / S

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL = $\frac{Cosp}{\geq 0,9}$	Code	Notes	
RX7s	70W	SD-MD		S	96	I	CR		• 05292896	•	
RX7s	150W	SD-MD		S	96	I	CR		• 05292996	•	
RX7s	70W	SD-MD		S	96	II	CR		• 05268596	•	
RX7s	150W	SD-MD		S	96	II	CR		• 05268696	•	



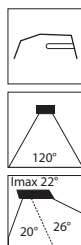
SQUARE 01 / A

RX7s	70W	SD-MD		A	96	I	CR		• 05293096	•	
RX7s	150W	SD-MD		A	96	I	CR		• 05293196	•	
RX7s	70W	SD-MD		A45°	96	I	CR		• 05293296	•	
RX7s	150W	SD-MD		A45°	96	I	CR		• 05293396	•	
RX7s	70W	SD-MD		A	96	II	CR		• 05268796	•	
RX7s	150W	SD-MD		A	96	II	CR		• 05268896	•	
RX7s	70W	SD-MD		A45°	96	II	CR		• 05268996	•	
RX7s	150W	SD-MD		A45°	96	II	CR		• 05269096	•	



SQUARE 01 / C

RX7s	70W	SD-MD		C	96	I	CR		• 05293496	•	
RX7s	150W	SD-MD		C	96	I	CR		• 05293596	•	
RX7s	70W	SD-MD		C	96	II	CR		• 05269196	•	
RX7s	150W	SD-MD		C	96	II	CR		• 05269296	•	



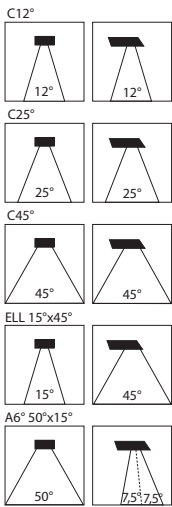
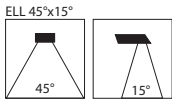
SQUARE 01 / WR

G12	35W	MT		SR	96	I	CR		05365796	•	
G12	70W	MT		SR	96	I	CR		• 05293696	•	
G12	150W	MT		SR	96	I	CR		• 05293796	•	
G12	35W	MT		SR	96	II	CR		05365896	•	
G12	70W	MT		SR	96	II	CR		• 05275696	•	
G12	150W	MT		SR	96	II	CR		• 05275796	•	

SQUARE 01

MT		GR	35-70÷150W	HCI-T/HQI-T
MD		RX7s	70÷150W	HQI-TS/MH-TD/CDM-TD
SD		RX7s	70÷150W	NAV-TS
LED			Max N°36-39,6W	

SQUARE 02



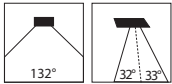
SQUARE 02 - LED 6000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI = Cosφ ≥ 0,9	Code	Notes
n.72 led 350mA	79,2W		6000	C 12°	96	I	ETRC	•	06040796	
n.72 led 350mA	79,2W		6000	C 25°	96	I	ETRC	•	06040896	
n.72 led 350mA	79,2W		6000	C 45°	96	I	ETRC	•	06040996	
n.72 led 350mA	79,2W		6000	ELL 45°x15°	96	I	ETRC	•	06041096	
n.72 led 350mA	79,2W		6000	ELL 15°x45°	96	I	ETRC	•	06041196	
n.72 led 350mA	79,2W		6000	A 6°	96	I	ETRC	•	06041296	

SQUARE 02 - LED 3000 K

n.72 led 350mA	79,2W		3000	C 12°	96	I	ETRC	•	06041396	
n.72 led 350mA	79,2W		3000	C 25°	96	I	ETRC	•	06041496	
n.72 led 350mA	79,2W		3000	C 45°	96	I	ETRC	•	06041596	
n.72 led 350mA	79,2W		3000	ELL 45°x15°	96	I	ETRC	•	06041696	
n.72 led 350mA	79,2W		3000	ELL 15°x45°	96	I	ETRC	•	06041796	
n.72 led 350mA	79,2W		3000	A 6°	96	I	ETRC	•	06041896	

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.



SQUARE 02 - LED 6000 K / WR

n.60 led 350mA	60W		6000	SR	96	I	ETRC	•	06041996	
n.60 led 350mA	60W		6000	SR	96	II	ETRC	•	06042296	

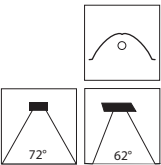
SQUARE 02 - LED 4200 K / WR

n.60 led 350mA	60W		4200	SR	96	I	ETRC	•	06042096	
n.60 led 350mA	60W		4200	SR	96	II	ETRC	•	06042396	

SQUARE 02 - LED 3000 K / WR

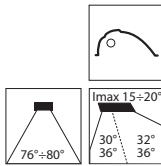
n.60 led 350mA	60W		3000	SR	96	I	ETRC	•	06042196	
n.60 led 350mA	60W		3000	SR	96	II	ETRC	•	06042496	

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.



SQUARE 02 / S

E40	150W	ST-MT	S	96	I	CR	•	05293896	•	
E40	250W	ST-MT	S	96	I	CR	•	05293996	•	
E40	400W	ST-MT	S	96	I	CR	•	05294096	•	
E40	250W	MT*	S	96	I	CR	•	05294196	*For lamp HPI-T	•
E40	400W	MT*	S	96	I	CR	•	05294296	*For lamp HPI-T	•
E40	150W	ST-MT	S	96	II	CRF	•	05269396		•
E40	250W	ST-MT	S	96	II	CRF	•	05269496		•
E40	400W	ST-MT	S	96	II	CRF	•	05269596		•



SQUARE 02 / A

E40	150W	ST-MT	A	96	I	CR	•	05294396	•	
E40	250W	ST-MT	A	96	I	CR	•	05294496	•	
E40	400W	ST-MT	A	96	I	CR	•	05294596	•	
E40	250W	MT*	A	96	I	CR	•	05294696	*For lamp HPI-T	•
E40	400W	MT*	A	96	I	CR	•	05294796	*For lamp HPI-T	•
E40	150W	ST-MT	A	96	II	CRF	•	05269896		•
E40	250W	ST-MT	A	96	II	CRF	•	05269996		•
E40	400W	ST-MT	A	96	II	CRF	•	05270096		•

Wired HPF + fuse.

96

CLASS II



CLASS I



IP 66



IK 07
4J



KG
Max 13,2kg



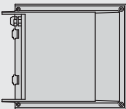
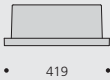
0,062m²

0,176m²

03



Depending on the Models



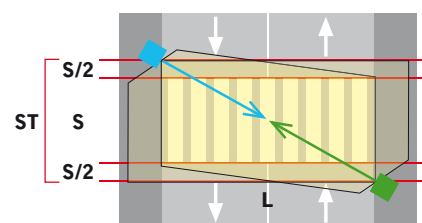
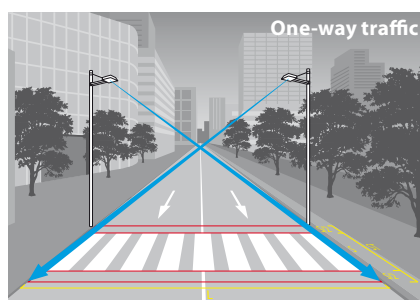
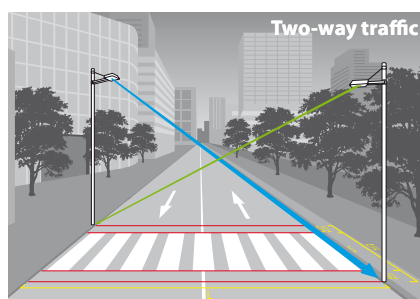
**SQUARE 02 / C**

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥ 0,9	Code	Notes	
Fc2	250W	MD		C	96	I	CR			• 05294896		•
Fc2	250W	MD		C	96	II	CRF			• 05270396	☐	•

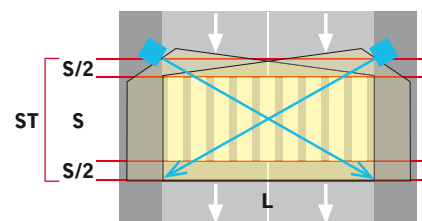
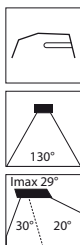
**SQUARE 02 / ZEBRA**

E40	150W	ST-MT		A	96	I	CR			• 05322396		•
E40	250W	ST-MT		A	96	I	CR			• 05322596		•
E40	400W	ST-MT		A	96	I	CR			• 05322796		•
E40	250W	MT*		A	96	I	CR			• 05322496	*For lamps HPI-T	•
E40	400W	MT*		A	96	I	CR			• 05322696	*For lamps HPI-T	•
E40	150W	ST-MT		A	96	II	CRF			• 05324096	☐	•
E40	250W	ST-MT		A	96	II	CRF			• 05324296	☐	•
E40	400W	ST-MT		A	96	II	CRF			• 05324496	☐	•

The SQUARE 02/ZEBRA range are designed for use on pedestrian crossings. They are available for use with high pressure sodium, or metal halide to take advantage of high colour rendering light sources in sensitive crossing areas to highlight pedestrian traffic.



L= road width
S= zebra crossing width
ST= total width of illumination area
Hmin= minimum height installation
INSTALLATION Hmin = 1,5xST

**SQUARE 02 / WR**

E40	100W	ST-MT		SR	96	I	CR			• 05327496		•
E40	150W	ST-MT		SR	96	I	CR			• 05327596		•
E40	250W	ST-MT		SR	96	I	CR			• 05327696		•
E40	100W	ST-MT		SR	96	II	CRF			• 05327896		•
E40	150W	ST-MT		SR	96	II	CRF			• 05327996		•
E40	250W	ST-MT		SR	96	II	CRF			• 05328096		•

☐ With fuse.

SQUARE 02

MT	☐	E40 Max 400W	HPI-T Plus
MT	☐	E40 Max 400W	CDO-TT/HQI-T-D/HQI-BT-D
ST	☐	E40 Max 400W	NAV-T/SON-T
MD	☐	Fc2 Max 250W	HQI-TS/MH-TD
LED	☐	Max N° 72-79,2 W	

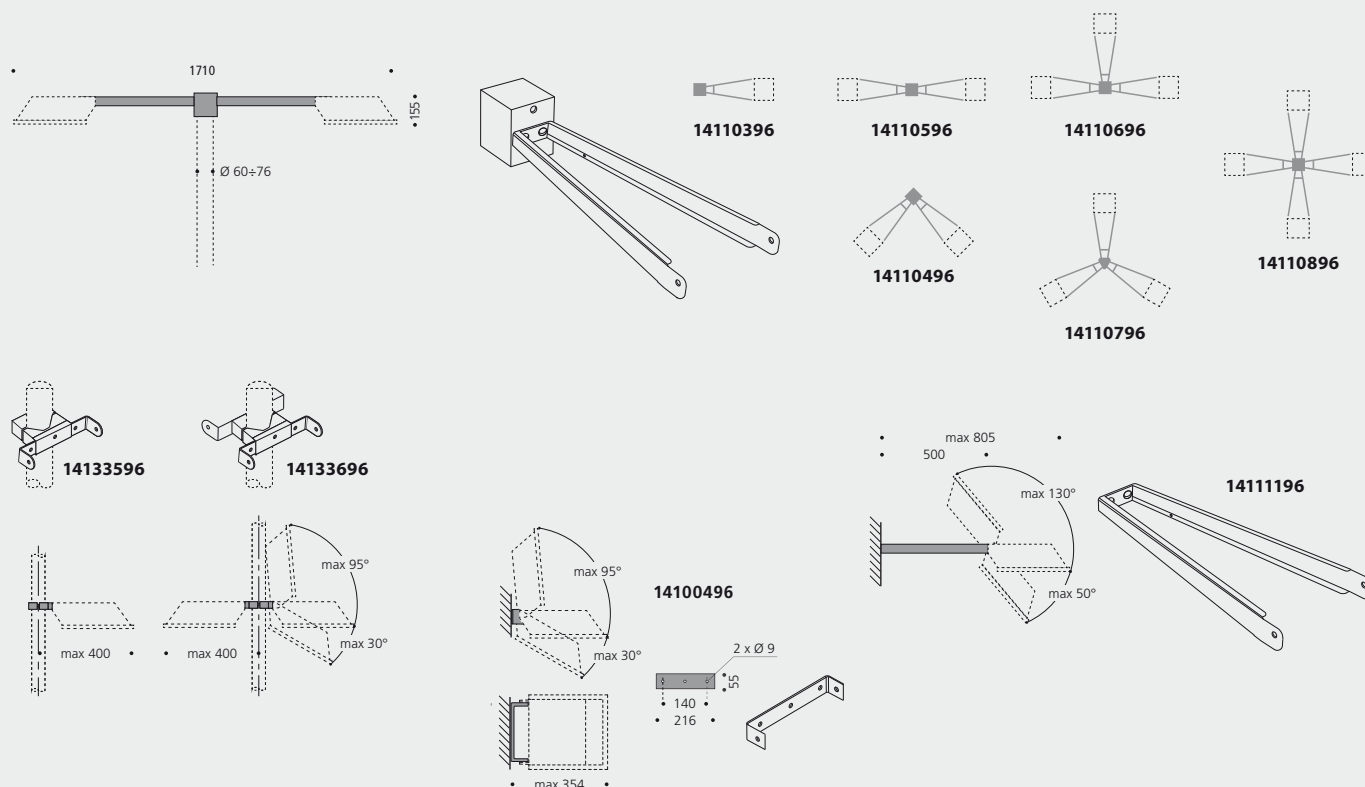
SQUARE 01

A wide range of contemporary mounting accessories suitable for SQUARE 01 offering a practical and aesthetic solution for urban area lighting:

- Ø60-76 mm pole top mounting (H max = 8m) in aluminium with steel outreach arms finished polyester painted. Available for single, twin, three and four SQUARE 01 luminaires (A0308-A0325).
- Ø60-76 mm sliding pole clamp suitable for single mounting SQUARE 01 luminaire (A0259/1).
- Ø60-76 mm sliding pole clamp suitable for twin (back to back) mounting A0259/1 luminaires (A0259/2).
- 600 mm wall or ceiling mounting outreach arm for A0259/1 luminaire (A0287).



Code	Denomination	Colour	Description
14100496	A0482	96	Wall arms for SQUARE 01
14111196	A0287/500	96	500mm wall mounting extension arm in sheet steel painted aluminium grey.
14133596	A0540/1	96	Single SQUARE 01 die-cast aluminium sliding pole clamp painted aluminium grey suitable for Ø60-76 mm poles.
14133696	A0540/2	96	Twin SQUARE 01 die-cast aluminium sliding pole clamp painted aluminium grey suitable for Ø60-76 mm poles.
14110396	A0308/1	96	Single SQUARE 01 pole top luminaire and outreach arm for 60-76 mm poles. Aluminium pole top and steel outreach arm, painted aluminium grey.
14110496	A0308/2-90°	96	Twin SQUARE 01 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.
14110596	A0308/2-180°	96	Twin SQUARE 01 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 180°. Finished painted aluminium grey.
14110696	A0308/3-90°	96	Three SQUARE 01 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.
14110796	A0325/3-120°	96	Three SQUARE 01 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 120°. Finished painted aluminium grey.
14110896	A0308/4	96	Four SQUARE 01 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.

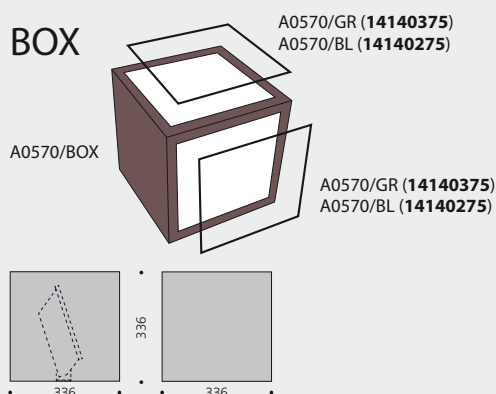




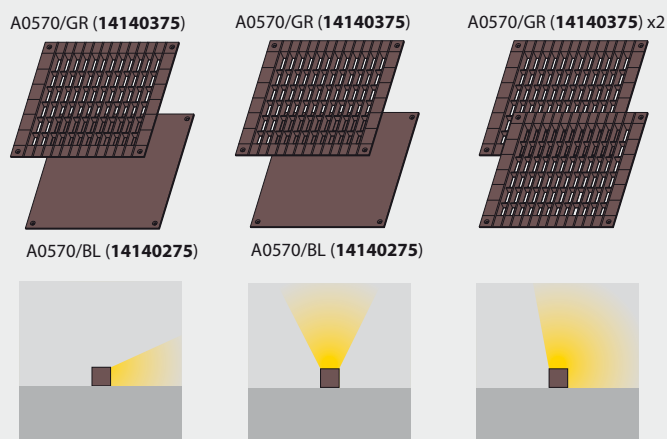
The protective cage protects Square 150 against acts of vandalism or accidental knocks coming from any direction. Due to its rust-coloured finish and clean lines, the luminaire can be installed in a variety of urban contexts (parking lots, green areas, squares, monuments). Available in the BOX or CUT versions to allow for modulated light emission.



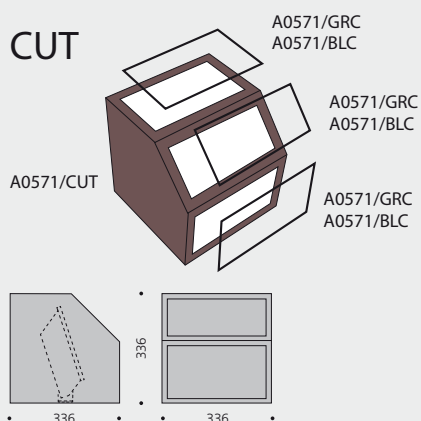
BOX



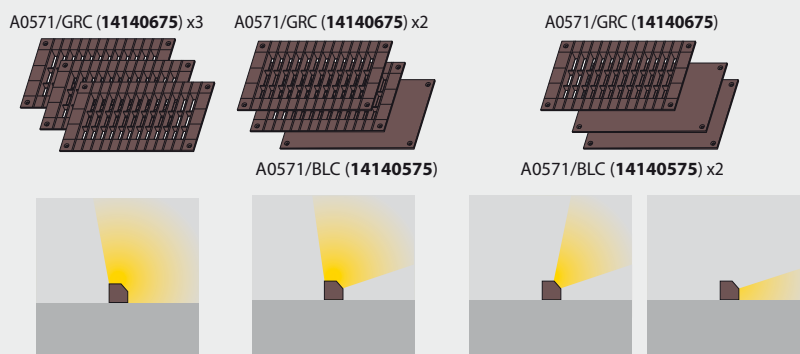
Code	Colour	Denomination	Description
14140175	75	A0570/BOX	BOX structure with 2 open sides.
14140275	75	A0570/BL	Blind plug for BOX structure.
14140375	75	A0570/GR	Grid for BOX structure.



CUT



Code	Colour	Denomination	Description
14140475	75	A0571/CUT	BOX structure with 3 open sides.
14140575	75	A0571/BLC	Blind plug for BOX structure.
14140675	75	A0571/GRC	Grid for BOX structure.



The examples show a few typical combinations, along with the relevant lists of necessary components.

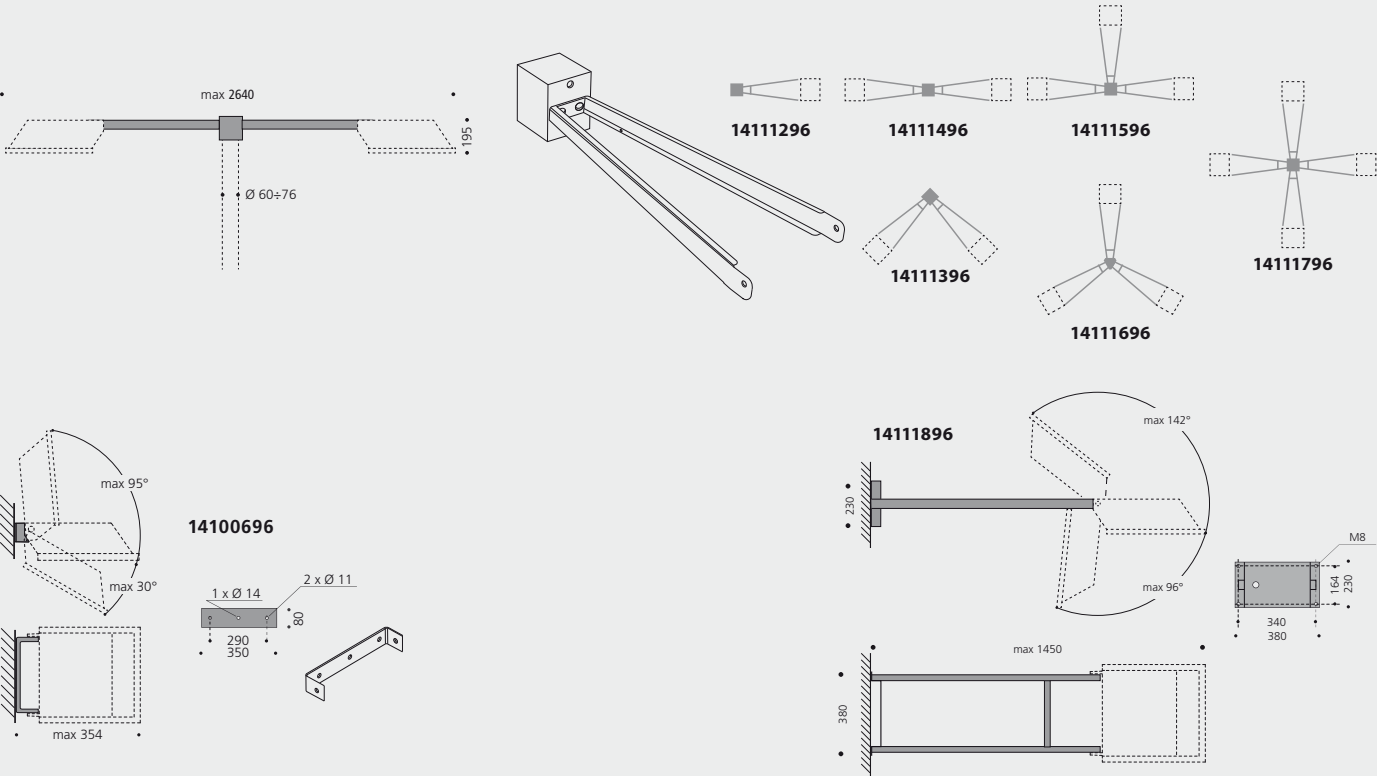
SQUARE 02

A wide range of contemporary mounting accessories suitable for SQUARE 02 offering a practical and aesthetic solution for urban area lighting:

- Ø76 mm pole top mounting in aluminium with steel outreach arms finished polyester painted. Available for single, twin, three and four SQUARE 02 luminaires (A0363).
- Wall or ceiling mounting outreach arm for SQUARE 02 luminaire (A0307).



Code	Denomination	Colour	Description
14100696	A0483	96	Wall arms for SQUARE 02.
14111896	A0307	96	1000 mm extension arm in heavy gauge steel, painted grey.
14111296	A0363/1	96	Single SQUARE 02 pole top luminaire and outreach arm for 60-76 mm poles. Aluminium pole top and steel outreach arm, painted aluminium grey.
14111396	A0363/2-90°	96	Twin SQUARE 02 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.
14111496	A0363/2-180°	96	Twin SQUARE 02 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 180°. Finished painted aluminium grey.
14111596	A0363/3-90°	96	Three SQUARE 02 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.
14111696	A0363/3-120°	96	Three SQUARE 02 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 120°. Finished painted aluminium grey.
14111796	A0363/4	96	Four SQUARE 02 aluminium pole top luminaire and steel outreach arm for Ø60-76 mm poles, installed at 90°. Finished painted aluminium grey.









SQUARE SOLUTION

design Silvia Paola Pennacchio

A wide range of contemporary mounting accessories suitable for SQUARE offering a practical and aesthetic solution for urban area lighting:

SQUARE BAR

SQUARE WING

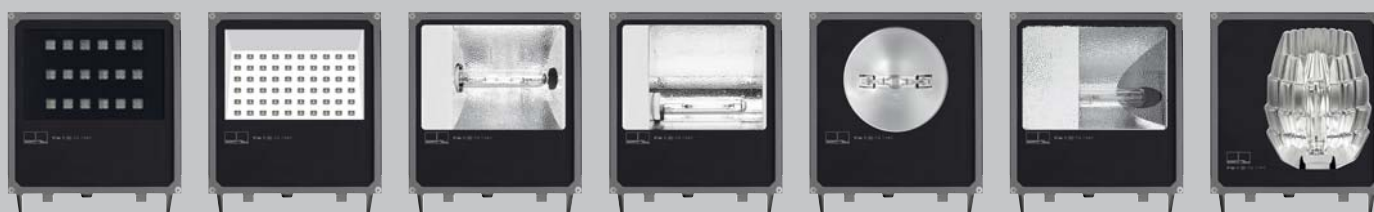
SQUARE CUT

SQUARE SHELL

SQUARE 01



SQUARE 02



SQUARE BAR

design Silvia Paola Pennacchio



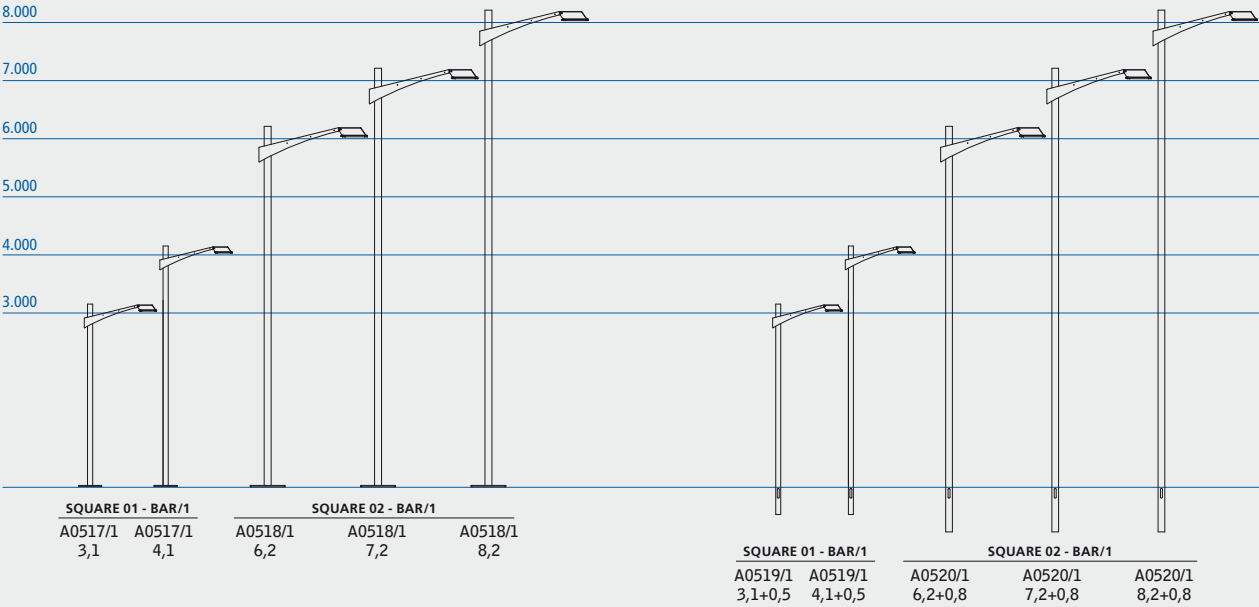
A

B

COMPLETE UNIT

A+B= 2 codes

COMPONENTS	
A	SQUARE luminaire
B	arm + pole





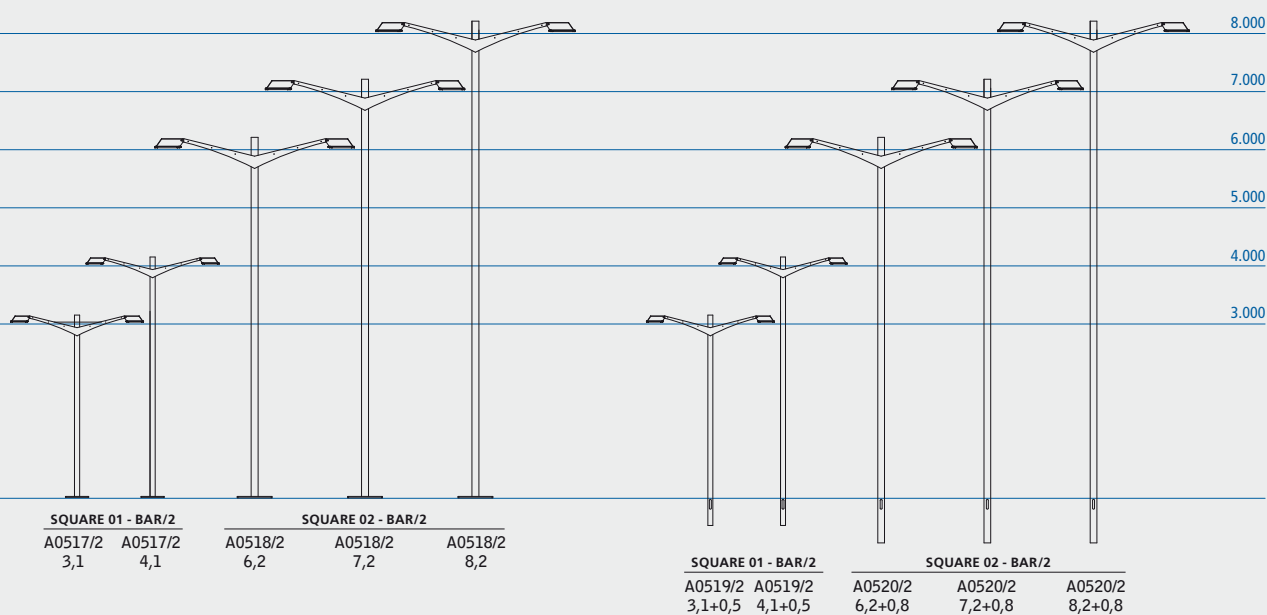
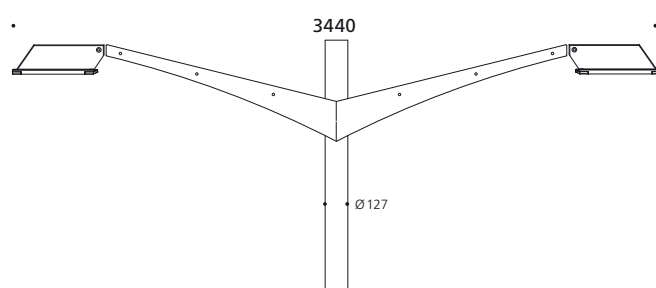
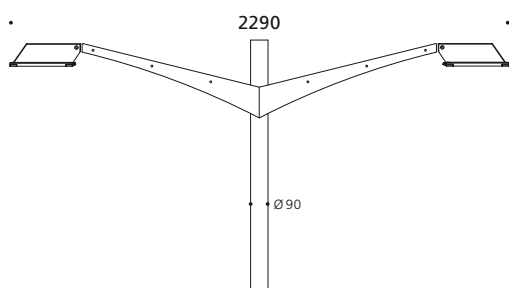
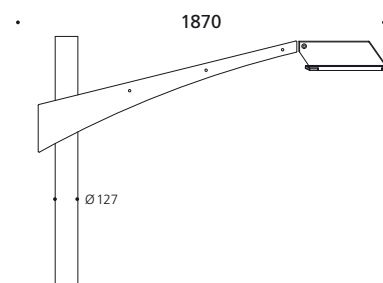
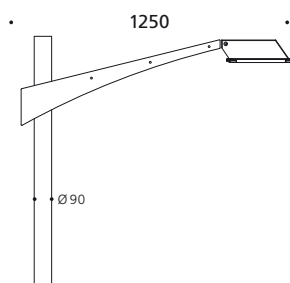
SQUARE 01 BAR/1
SQUARE 01 BAR/2

Code	Colour	Notes
14123596	96	A0517/1/3,1
14123696	96	A0517/1/4,1
14124596	96	A0519/1/3,1+0,5
14124696	96	A0519/1/4,1+0,5
14123796	96	A0517/2/3,1
14123896	96	A0517/2/4,1
14124796	96	A0519/2/3,1+0,5
14124896	96	A0519/2/4,1+0,5



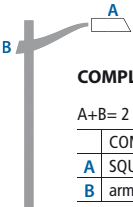
SQUARE 02 BAR/1
SQUARE 02 BAR/2

Code	Colour	Notes
14123996	96	A0518/1/6,2
14124096	96	A0518/1/7,2
14124196	96	A0518/1/8,2
14124996	96	A0520/1/6,2+0,8
14125096	96	A0520/1/7,2+0,8
14125196	96	A0520/1/8,2+0,8
14124296	96	A0518/2/6,2
14124396	96	A0518/2/7,2
14124496	96	A0518/2/8,2
14125296	96	A0520/2/6,2+0,8
14125396	96	A0520/2/7,2+0,8
14125496	96	A0520/2/8,2+0,8



SQUARE WING

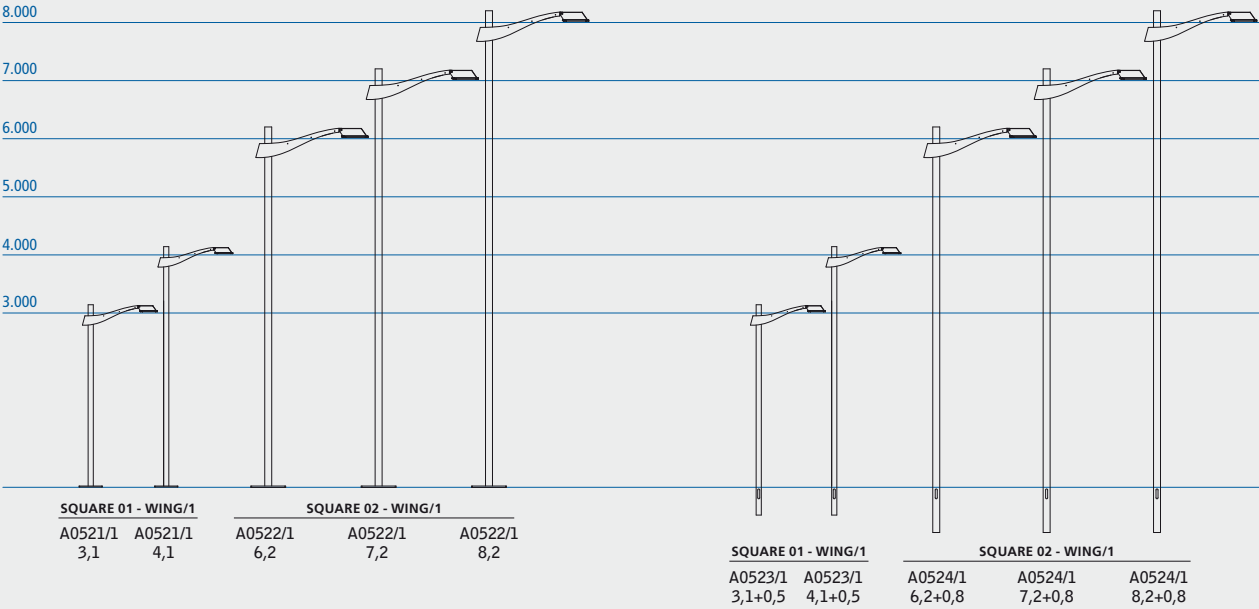
design Silvia Paola Pennacchio



COMPLETE UNIT

A+B= 2 codes

COMPONENTS	
A	SQUARE luminaire
B	arm + pole





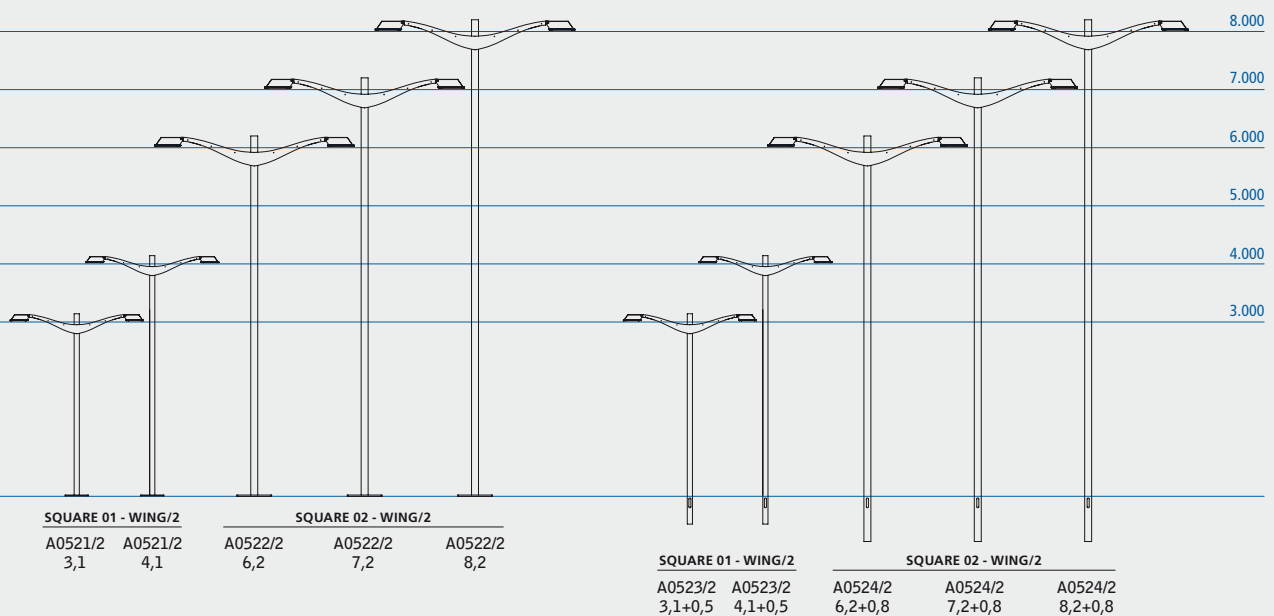
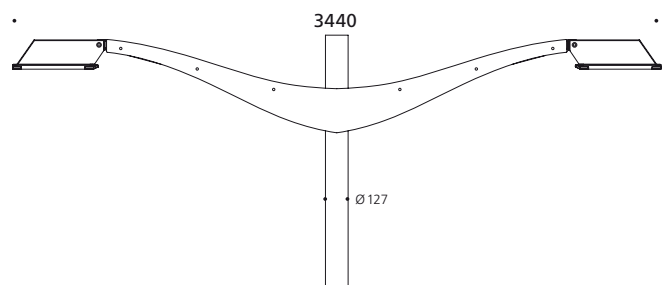
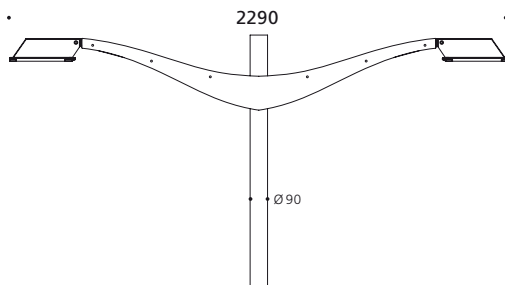
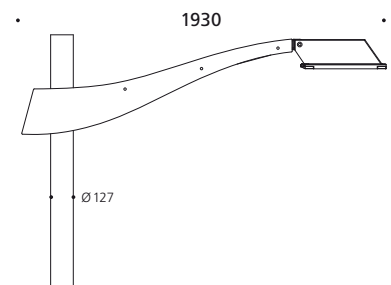
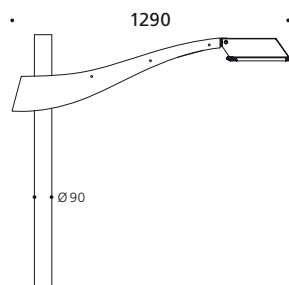
SQUARE 01 WING/1
SQUARE 01 WING/2

Code	Colour	Notes
14125596	96	A0521/1/3,1
14125696	96	A0521/1/4,1
14126596	96	A0523/1/3,1+0,5
14126696	96	A0523/1/4,1+0,5
14125796	96	A0521/2/3,1
14125896	96	A0521/2/4,1
14126796	96	A0523/2/3,1+0,5
14126896	96	A0523/2/4,1+0,5



SQUARE 02 WING/1
SQUARE 02 WING/2

Code	Colour	Notes
14125996	96	A0522/1/6,2
14126096	96	A0522/1/7,2
14126196	96	A0522/1/8,2
14126996	96	A0524/1/6,2+0,8
14127096	96	A0524/1/7,2+0,8
14127196	96	A0524/1/8,2+0,8
14126296	96	A0522/2/6,2
14126396	96	A0522/2/7,2
14126496	96	A0522/2/8,2
14127296	96	A0524/2/6,2+0,8
14127396	96	A0524/2/7,2+0,8
14127496	96	A0524/2/8,2+0,8





SQUARE CUT

design Silvia Paola Pennacchio

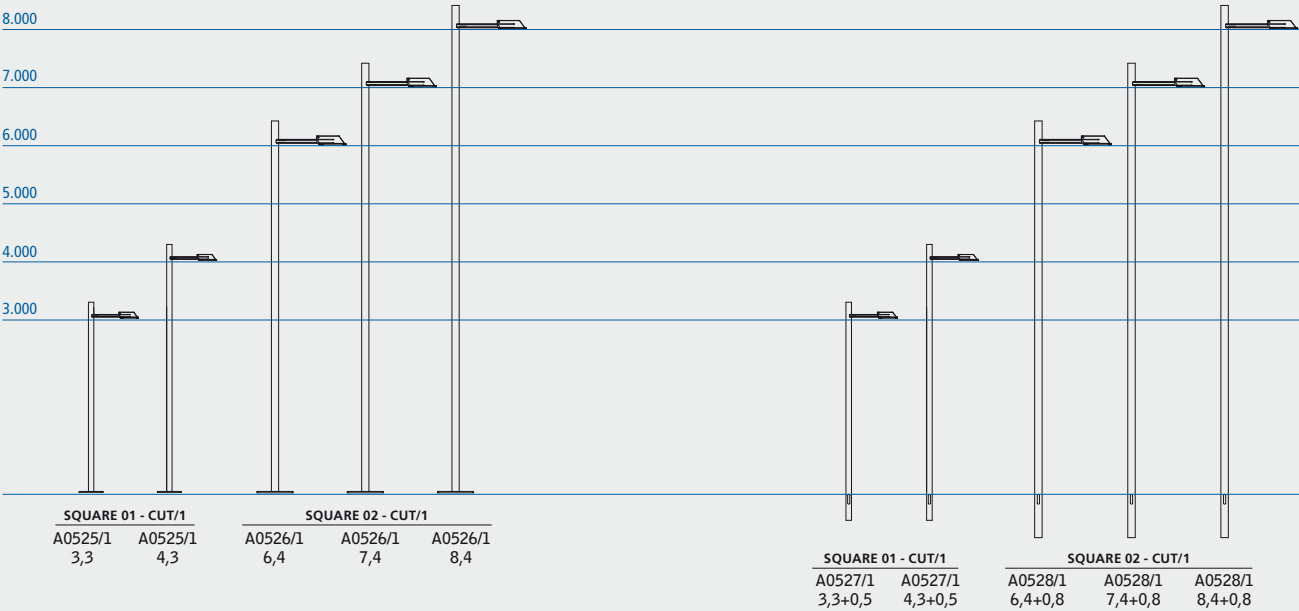
A

B

COMPLETE UNIT

A+B= 2 codes

COMPONENTS	
A	SQUARE luminaire
B	arm + pole

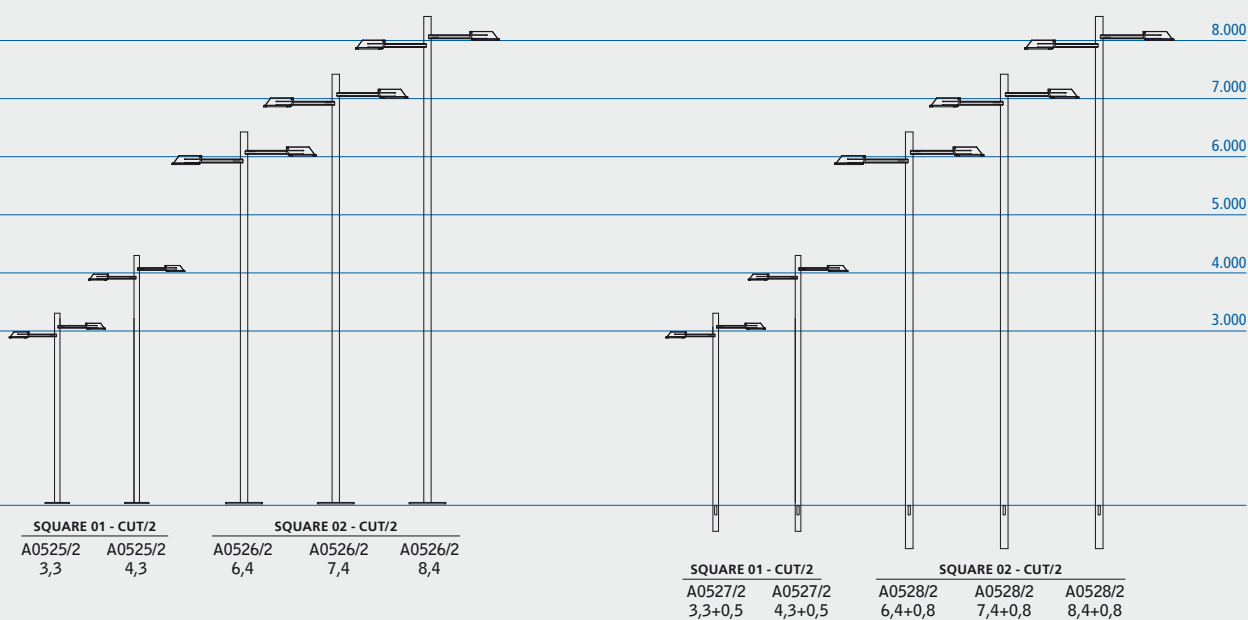
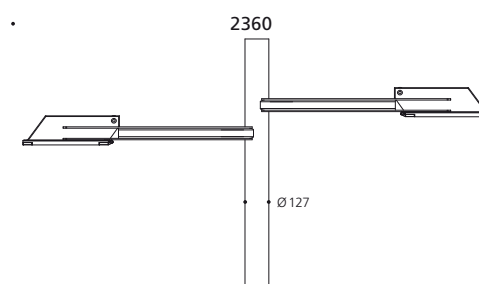
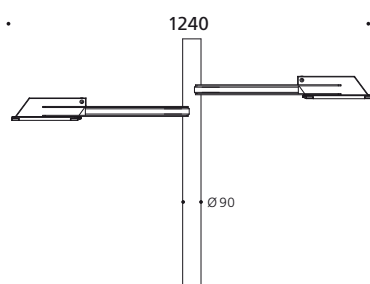
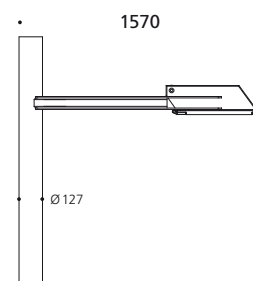
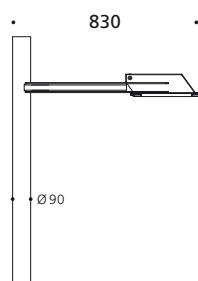


**SQUARE 01 CUT/1-2**

Code	Colour	Notes
14127596	96	A0525/1/3,3
14127696	96	A0525/1/4,3
14128596	96	A0527/1/3,3+0,5
14128696	96	A0527/1/4,3+0,5
14127796	96	A0525/2/3,3
14127896	96	A0525/2/4,3
14128796	96	A0527/2/3,3+0,5
14128896	96	A0527/2/4,3+0,5

**SQUARE 02 CUT/1-2**

Code	Colour	Notes
14127996	96	A0526/1/6,4
14128096	96	A0526/1/7,4
14128196	96	A0526/1/8,4
14128996	96	A0528/1/6,4+0,8
14129096	96	A0528/1/7,4+0,8
14129196	96	A0528/1/8,4+0,8
14128296	96	A0526/2/6,4
14128396	96	A0526/2/7,4
14128496	96	A0526/2/8,4
14129296	96	A0528/2/6,4+0,8
14129396	96	A0528/2/7,4+0,8
14129496	96	A0528/2/8,4+0,8



SQUARE SHELL

design Silvia Paola Pennacchio



	COMPLETE UNIT
	A+B= 2 codes
	COMPONENTS
A	SQUARE luminaire
B	arm + pole



Luminaires are available with stainless steel poles which can be joined with an aesthetic coupling sleeve, finished grey colour 96, rust colour and stainless steel. Special versions are available on request.

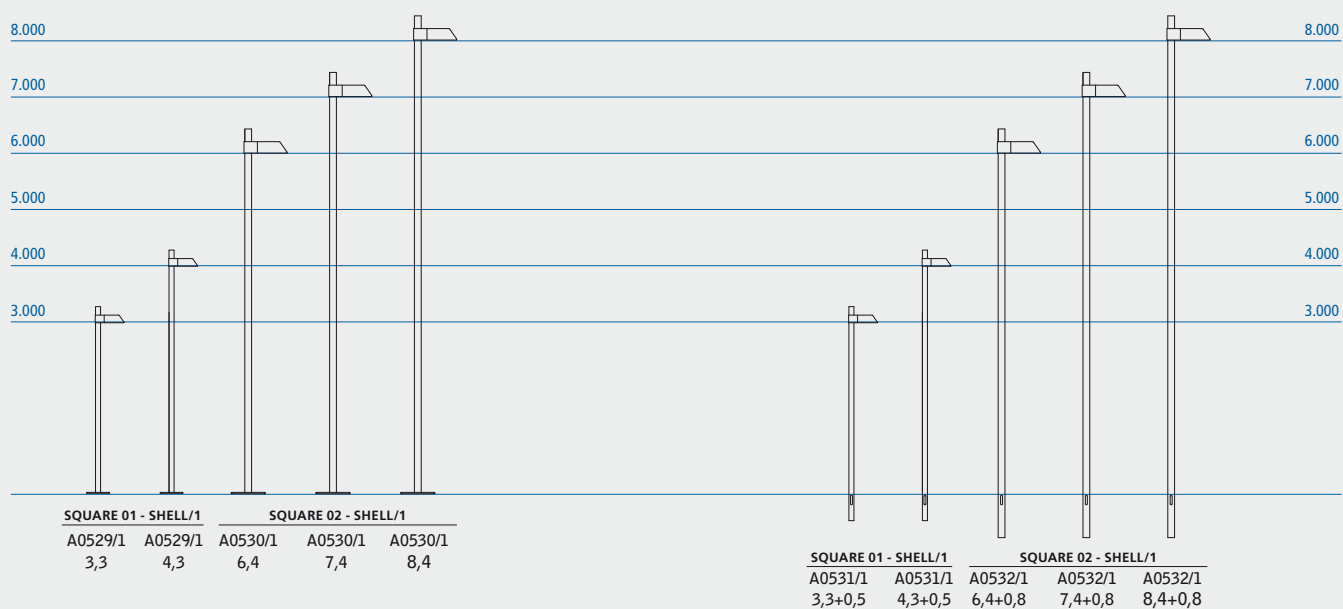


**SQUARE 01 SHELL/1**

Code	Colour	Notes
14129596	96	A0529/1/3,3
14129696	96	A0529/1/4,3
14130096	96	A0531/1/3,3+0,5
14130196	96	A0531/1/4,3+0,5

**SQUARE 02 SHELL/1**

Code	Colour	Notes
14129796	96	A0530/1/6,4
14129896	96	A0530/1/7,4
14129996	96	A0530/1/8,4
14130296	96	A0532/1/6,4+0,8
14130396	96	A0532/1/7,4+0,8
14130496	96	A0532/1/8,4+0,8





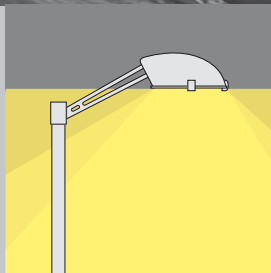
STAR PARK

design Silvia Paola Pennacchio

STAR PARK 150-400 are stylish floodlights ideal for modern aesthetic cityscape lighting for parking lots, retail and commercial complexes, public area lighting etc. Featuring the following: Contemporary and compact with a clean linear design.

High quality corrosion resistant materials and finishes, extensive range of high performance optics for use with a variety of light sources. A comprehensive range of mounting accessories and contemporary brackets suitable for STAR PARK 150-400 provide options to suit a variety of installations.





Luminaires installed with the optical axis perpendicular to the ground comply with dark sky regulations.



STAR PARK 150

STAR PARK 150 are high performance floodlights suitable for compact fluorescent and HID lamp sources from 26 W to 150 W.

STAR PARK 150 floodlights are available in the following versions:

Adjustable mounting bracket version.

Recessed version with mounting frame.

Pole mounting with street lighting optics and for urban contemporary lighting. A wide product range with a variety of optics, light sources and accessories, offers the designer the choice and flexibility to provide the optimum solution in the most demanding installations.

STAR PARK 150 floodlight features:

High performance and accurate light control.

Compact modern aesthetic design.

High quality materials and finishes.

Corrosion resistance.

Suitable for high ambient temperature applications.

Quick and easy installation and maintenance.

Reliability and longevity guaranteed.

STAR PARK 150 products are manufactured from high quality corrosion resistance materials making them suitable for use in harsh ambient conditions. With their high performance and aesthetic design they are equally suitable for use in the most prestigious of applications.

Positioning the STAR PARK 150 with glass parallel to the ground offers zero upward light pollution.

Body in die-cast aluminium chromate pre-treated finished polyester coated.

Reflector in high purity aluminium anodized and polished, available with following optics:

asymmetrical (various degrees I_{max} 20° - 45°), circular symmetrical, circular asymmetrical (I_{max} 23° - 45°) and street lighting reflector.

5mm impact resistant glass cover mounted in a technopolymer frame which hinges down for maintenance.

Anti-aging dual foam silicone gasket, factory injection CNC direct to glass process.

Galvanised sheet steel gear tray.

Pushwire terminal block for 3x1,5 mm² max for solid and stranded cables.

M16X1.5 anti-tearing cable gland for Ø5-10 mm cables.

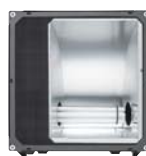
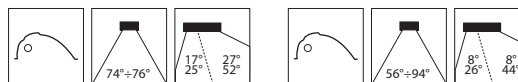
Stainless steel external screws.



STAR PARK 150/A 20°

Sym. medium beam reflectors I_{max} 20°

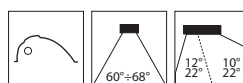
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E27	70W	ME		A20	96	I	CR		•	05262496	
E27	70W	ST		A20	96	I	CR		•	05262596	
E27	70W	SE/I		A20	96	I	CR		•	05262696	△
E27	100W	ME		A20	96	I	CR		•	05262796	
E27	150W	ME		A20	96	I	CR		•	05262896	
GX24q-3/4	26 - 32 - 42W	FSQ/FSMH		A20	96	I	ETRC	A2	•	05262996	E
GX24q-5	57W	FSMH		A20	96	I	ETRC	A2	•	05263096	E



STAR PARK 150/A 45°

Asym. medium beam reflectors I_{max} 45°

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
RX7s	70W	SD-MD		A45	96	I	CR		•	05263196	
RX7s	150W	SD-MD		A45	96	I	CR		•	05263296	

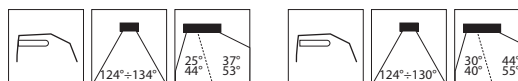


STAR PARK 150/WR floodlight complete with full cut-off street lighting reflector for a variety of road and street lighting applications. They are also suitable for general area car park lighting, roads, alleys, walls, industrial / commercial buildings and façades.



STAR PARK 150/WR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E27	70W	ME		WR	96	I	CR		•	05263996	
E27	70W	ST		WR	96	I	CR		•	05264096	
E27	70W	SE/I		WR	96	I	CR		•	05264196	△
E27	100W	ME		WR	96	I	CR		•	05264296	
E27	150W	ME		WR	96	I	CR		•	05264396	
GX24q-3/4	26 - 32 - 42W	FSQ/FSMH		WR	96	I	ETRC	A2	•	05264496	E
GX24q-5	57W	FSMH		WR	96	I	ETRC	A2	•	05264596	E



E Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

△ For lamps with integral ignitor.

96

CLASS I

IP 66

IK 08

7J



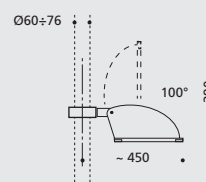
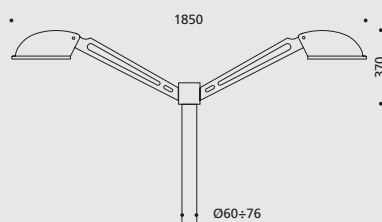
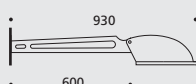
KG
Max 6kg



0,1m²

M16x1,5
Ø5÷10

3x1÷2,5mm²



STAR PARK 150

A wide range of contemporary mounting accessories suitable for STAR PARK 150 offering a practical and aesthetic solution for urban area lighting:

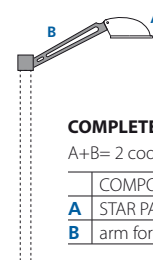
Ø60-76mm pole top mounting (H max = 8m) in aluminium with steel outreach arms finished polyester painted. Available for single, twin, three and four STAR PARK 150 luminaires (A0243-A0324).

Ø60-76 mm sliding pole clamp suitable for single mounting STAR PARK 150 luminaire (A0539/1).

Ø60-76 mm sliding pole clamp suitable for twin (back to back) mounting STAR PARK 150 luminaires (A0539/2).

600mm wall or ceiling mounting outreach arm for 5STAR51 luminaire (A0241).

Code	Colour	Description
14107896	96	A0243/1
14107996	96	A0243/2-90°
14108096	96	A0243/2-180°
14108196	96	A0243/3-90°
14108296	96	A0324/3-120°
14108396	96	A0243/4
14107396	96	A0539/1
14107496	96	A0539/2
14107796	96	A0241



COMPLETE UNIT

A+B= 2 codes

	COMPONENTS
A	STAR PARK luminaires
B	arm for post



STAR PARK 150

FSQ/FSMH		GX24q-3/4	26-32-42W	DULUX-TE / PLT-4P
FSMH		GX24q-5	57W	DULUX-D-E / PLC-4P
SE/I		E27	70W	NAV-E△ / SON△
ME		E27	70W	HQI-E/CDO-ET
ME		E27	100-150W	HQI-E
ST		E27	70W	NAV-T/SON-T
MD		RX7s	70÷150W	HQI-TS/HCI-TS/MH-TD/CDM-TD
SD		RX7s	70÷150W	NAV-TS
MT		G12	70÷150W	HQI-T / HCI-T/CDM-T

STAR PARK 400

STAR PARK 400 (250-400W) features:

Contemporary compact design.

High quality materials.

Corrosion resistant materials and finishes.

Accurate photometric control.

High Light Output Ratios.

Zero Upward Light Pollution.

Long life and reliability.

Quick and easy installation / maintenance.

Wide range of light sources and optics.

Range of mounting options and accessories.

STAR PARK 400 are suitable for indoor

and outdoor sports lighting for mid-range

professional sports applications.

STAR PARK 400 products are manufactured

from high quality corrosion resistance

materials making them suitable for use in

harsh ambient conditions and industrial

applications. With their high performance and

aesthetic design they are equally suitable for

architectural detail / feature lighting, building

façades and lighting in the most prestigious of

applications.

Body in die-cast aluminium chromate pre-

treated finished polyester coated.

Reflector in high purity aluminium anodized

and polished, available with following optics:

Symmetrical or asymmetrical (Imax 45° - 55°),

circular and street lighting reflector.

5mm impact resistant glass hinges down for

easy maintenance.

Anti-aging dual foam silicone gasket, factory

injection CNC direct to glass process.

Galvanised sheet steel gear tray, provides heat

dissipation and component longevity.

Cover fixing clips in anodized aluminium with

AISI 302 stainless steel spring.

M20X1.5 anti-tearing cable gland for Ø10-

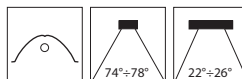
14mm cables.

Stainless steel external screws.



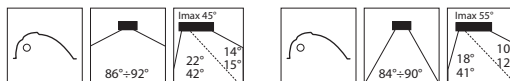
STAR PARK 400/S Symmetrical medium beam reflectors

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	250W	MT*		S	96	I	CR			• 05266096	*For Lamp HPI-T Plus
E40	250W	ST-MT		S	96	I	CR			• 05266196	
E40	400W	MT*		S	96	I	CR			• 05266296	*For Lamp HPI-T Plus
E40	400W	ST-MT		S	96	I	CR			• 05266396	



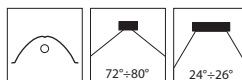
STAR PARK 400/A 45° - 55° Asymmetrical medium beam reflectors

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	250W	MT*		A45	96	I	CR			• 05266496	*For Lamp HPI-T Plus
E40	250W	ST-MT		A45	96	I	CR			• 05266596	
E40	400W	MT*		A45	96	I	CR			• 05266696	*For Lamp HPI-T Plus
E40	400W	ST-MT		A45	96	I	CR			• 05266796	
E40	250W	MT*		A55	96	I	CR			• 05266896	*For Lamp HPI-T Plus
E40	250W	ST-MT		A55	96	I	CR			• 05266996	
E40	400W	MT*		A55	96	I	CR			• 05267096	*For Lamp HPI-T Plus
E40	400W	ST-MT		A55	96	I	CR			• 05267196	



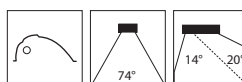
STAR PARK 400/S Fc2 Symmetrical medium beam reflectors

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
Fc2	250W	SD		S	96	I	CR			• 05267296	
Fc2	250W	MD		S	96	I	CR			• 05267396	
Fc2	400W	SD-MD		S	96	I	CR			• 05267496	



STAR PARK 400/A 45° Fc2 Asymmetrical medium beam reflectors

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
Fc2	250W	SD		A45	96	I	CR			• 05267596	
Fc2	250W	MD		A45	96	I	CR			• 05267696	
Fc2	400W	SD-MD		A45	96	I	CR			• 05267796	

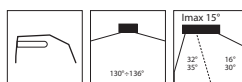


STAR PARK 150/WR floodlight complete with full cut-off street lighting reflector for a variety of road and street lighting applications. They are also suitable for general area car park lighting, roads, alleys, walls, industrial / commercial buildings and façades.

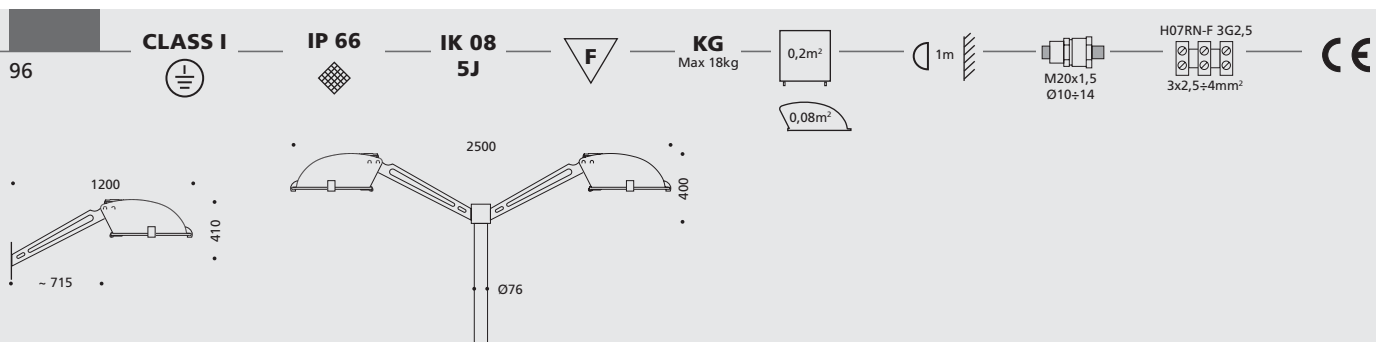


STAR PARK 400/WR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	250W	MT*		WR	96	I	CR			• 05268196	! *For Lamp HPI-T Plus
E40	250W	ST-MT		WR	96	I	CR			• 05268296	
E40	400W	MT*		WR	96	I	CR			• 05268396	! *For Lamp HPI-T Plus
E40	400W	ST-MT		WR	96	I	CR			• 05268496	



! HPI-T Plus - Orientation : horizontal ± 20°.



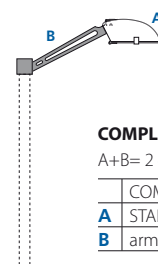
STAR PARK 400

A wide range of contemporary mounting accessories suitable for STAR PARK 400 offering a practical and aesthetic solution for urban area lighting:

Ø76mm pole top mounting in aluminium with steel outreach arms finished polyester painted. Available for single, twin, three and four STAR PARK 400 luminaires (A0270-A0330).

Wall or ceiling mounting outreach arm for 5STARS2 luminaire (A0278).

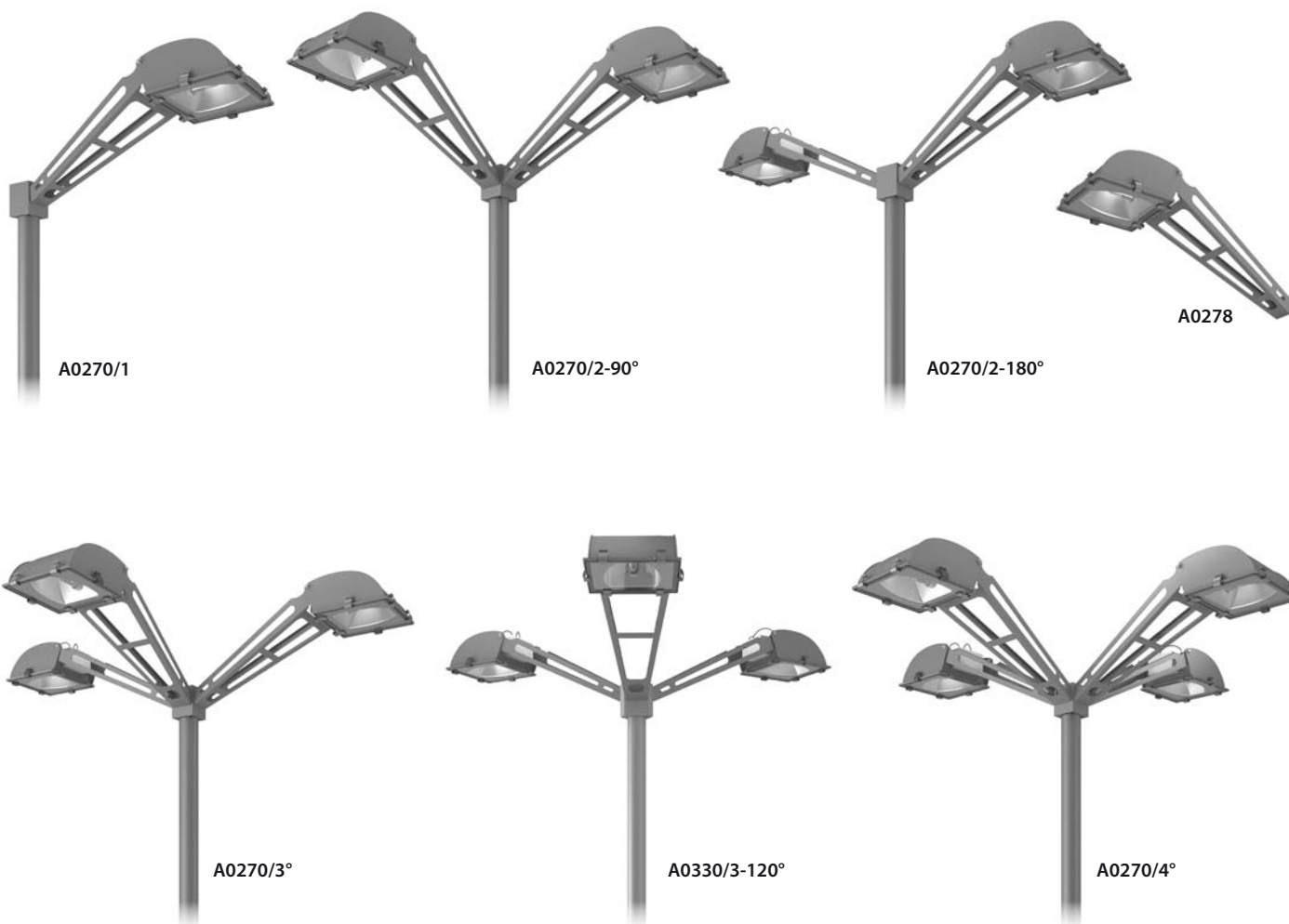
Code	Colour	Description
14109796	96	A0270/1
14109896	96	A0270/2-90°
14109996	96	A0270/2-180°
14110096	96	A0270/3
14110196	96	A0330/3-120°
14110296	96	A0270/4
14109696	96	A0278



COMPLETE UNIT

A+B= 2 codes

COMPONENTS	
A	STAR PARK luminaires
B	arm for post



STAR PARK 400

MT*		E40	250÷400WHPI-T Plus
ST		E40	Max400W NAV-T/SON-T
MT		E40	Max400W HQI-T-D/HQI-BT-D
SD		Fc2	250-400W NAV-TS
MD		Fc2	400W HQI-TS
MD		Fc2	250W HQI-TS/MH-TD

ATON LED

design Silvia Paola Pennacchio

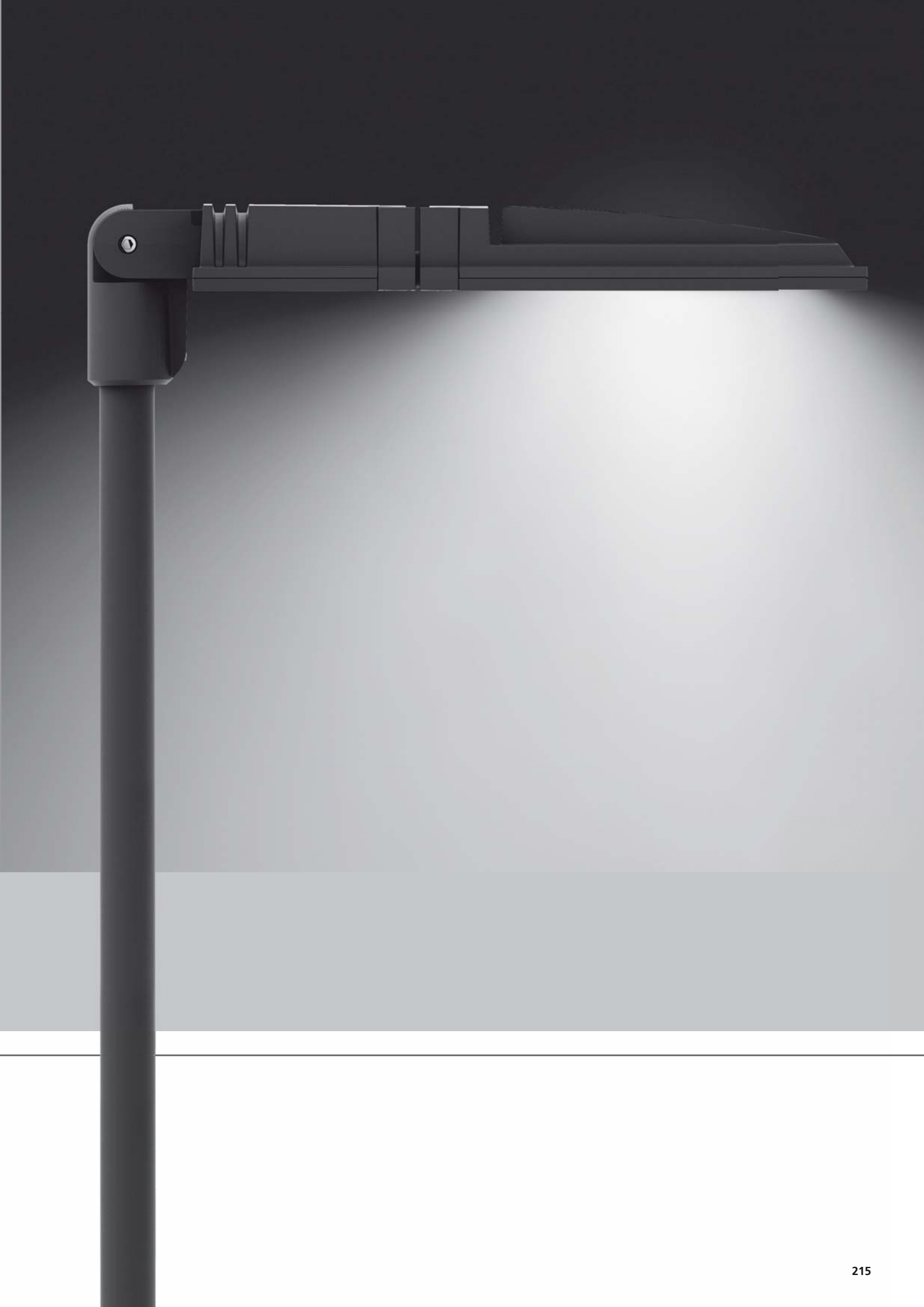


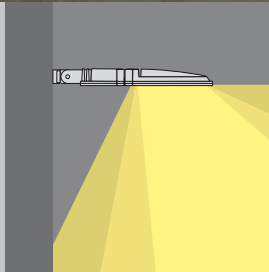
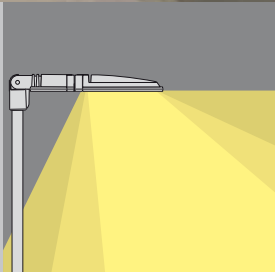
ATON LED is a range of high-performance public lighting luminaires designed and created for use with LED light sources. Thanks to their compact shape, modern design, high photometric performance, availability of different power levels and broad range of installation systems, ATON LED luminaires can be used in a variety of installation contexts for illuminating large thoroughfares, but also for residential and urban decor applications. The range conforms to the UNI 10819 standard and Italian regional laws on light pollution, and is offered in two versions:

- ATON LED for pole-top installation with attachment for Ø 60 or 76 mm poles.
- ATON-Wall LED for installation on walls or dedicated arms, available as accessories.

Both versions come with the following configurations: 35 LEDs, 40 LED, 55 LED, 75 LED, each available with two different color tones: white 6000 K and white 4200 K.



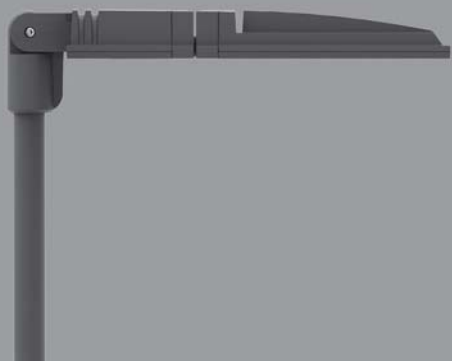




ATON LED is designed to comply with the recommendations for glare control and upward dark sky to reduce the effect of sky glow.



ATON LED



Landscape, public and pedestrian areas



Streets



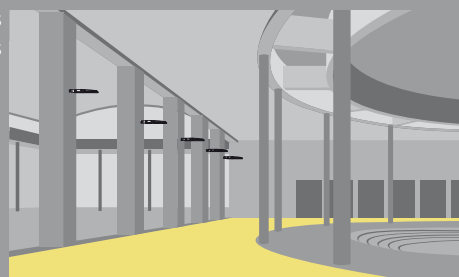
ATON-W LED



Parking areas



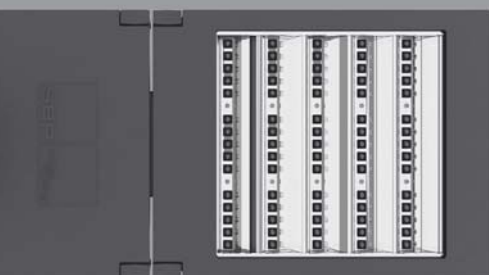
Commercial centres and interiors



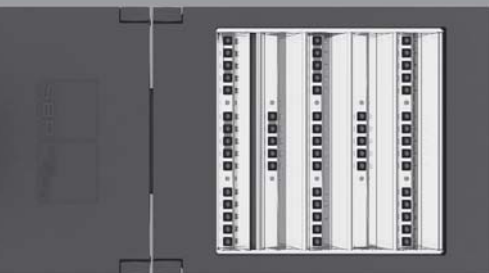
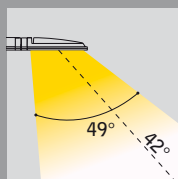
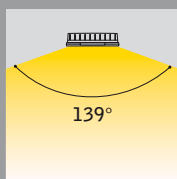
Power reduction

ATON LED and ATON-Wall LED versions are also available with automatic power reduction. These luminaires are equipped with high-performance electronic ballast suitable for 220-240 V 50/60 Hz nominal voltage, which is pre-programmed for reducing the luminous flux by 50% in the following manner:

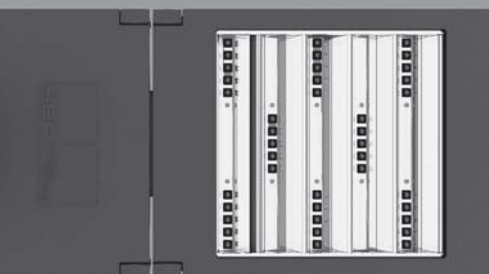
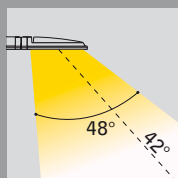
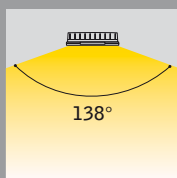
- identification of sidereal midnight (the average point of the ignition period);
- luminous flux reduction for a total of 8 hours, of which 2 hours before sidereal midnight and 6 hours after sidereal midnight.



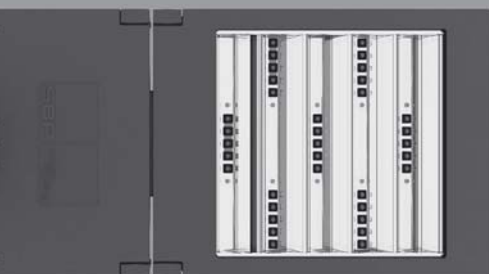
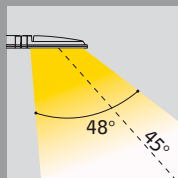
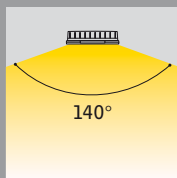
ATON 75 LED



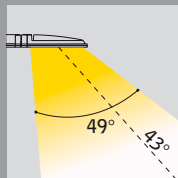
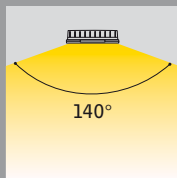
ATON 55 LED



ATON 40 LED



ATON 35 LED

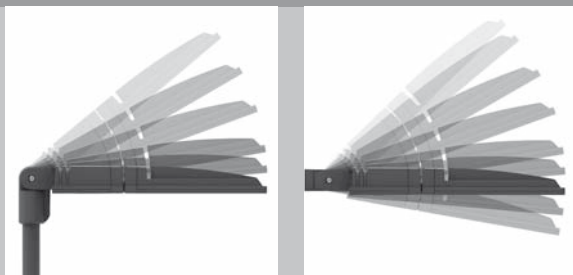


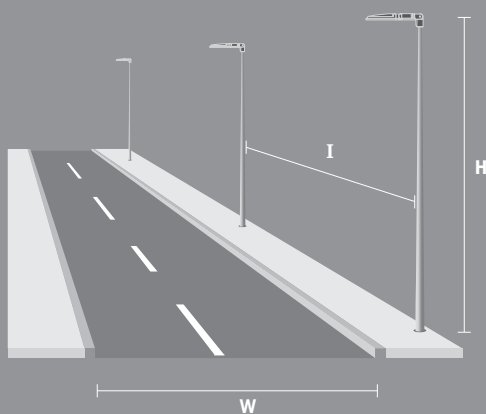
ADJUSTABILITY

ATON post-top version is adjustable from 0° (horizontal) to +40° with 5° adjustments.

Curved arm version is adjustable from 0° to +40°.

ATON-W mounted on extension arms or wall mounted is adjustable from 0° to +40° and from 0° to -20°.





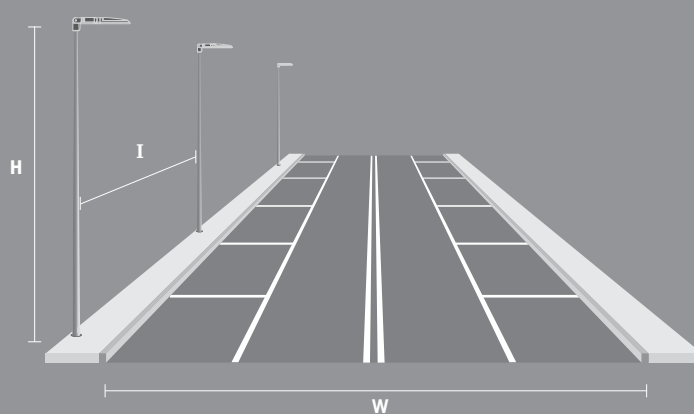
Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
75 LED	8	29,6	7,5	1,14	0,58	0,7	9,75	0°	ME3a

Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
55 LED	8	29,6	7,5	0,84	0,58	0,69	9,19	0°	ME4a

Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
40 LED	6	24	6	0,99	0,51	0,61	11,28	0°	ME4a
40 LED	6	22,2	6	1,07	0,55	0,7	10,77	0°	ME3a

Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
35 LED	6	26,5	6	0,77	0,44	0,53	13,12	0°	ME4b
35 LED	6	22,2	6	0,92	0,52	0,7	11,55	0°	ME4a

Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
75 LED	10	40	10	0,66	0,52	0,6	8,87	0°	ME5



Aton LED	H	I	W	Lm	U0	UI	Ti	Tilt	classe
40 LED	6	22,2	5,5+4	1,16	0,44	0,71	10,97	0°	ME4a
55 LED	6	22,2	5,5+4	0,85	0,44	0,71	11,86	0°	ME3a
75 LED	8	36	5,5+4	0,9	0,5	0,53	11,6	0°	ME4b

H	Pole height (mt)
I	Poles interdistance (mt)
W	Street wideness (mt)
Lm	Average luminance (Cd/m2)
U0	General uniformity
UI	Longitudinal uniformity
Ti	Glare factor(%)
Tilt	Inclination angle

ATON LED

Die-cast aluminium body and cover with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment. The luminaire consists of two separate sealed compartments, namely the control gear compartment and the optical compartment, so as to optimise the thermal operating conditions of the electrical components.

Pole attachment (ATON LED) made of die-cast aluminium with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment, suitable for Ø 60 or 76 mm poles.

Closing clips made of die-cast aluminium with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment. During the opening phase, they remain anchored to the body in a captive manner.

Transparent extra-clear flat float soda-lime glass protective screen, thickness 4 mm, thermally tempered (safety glass).

Optic that combines technopolymer lenses with high luminous transmission and an iridescence-free pre-anodized aluminium reflector with ultra-high reflectivity.

White LED light sources available with two color tones: 6000 K and 4200 K.

Optical motor constituted by a combination of multiple LED modules. Each module is specially designed for housing 5 diodes and each one is paired with an electronic device capable of bypassing it in case of catastrophic malfunctions, thereby guaranteeing the flow of current and correct powering of the LED assembly.

Silicone gaskets.

Heat sensor that - when connected to the ballast - reduces the power whenever the LED reach critical temperatures, to guarantee long-lasting luminaire operation.

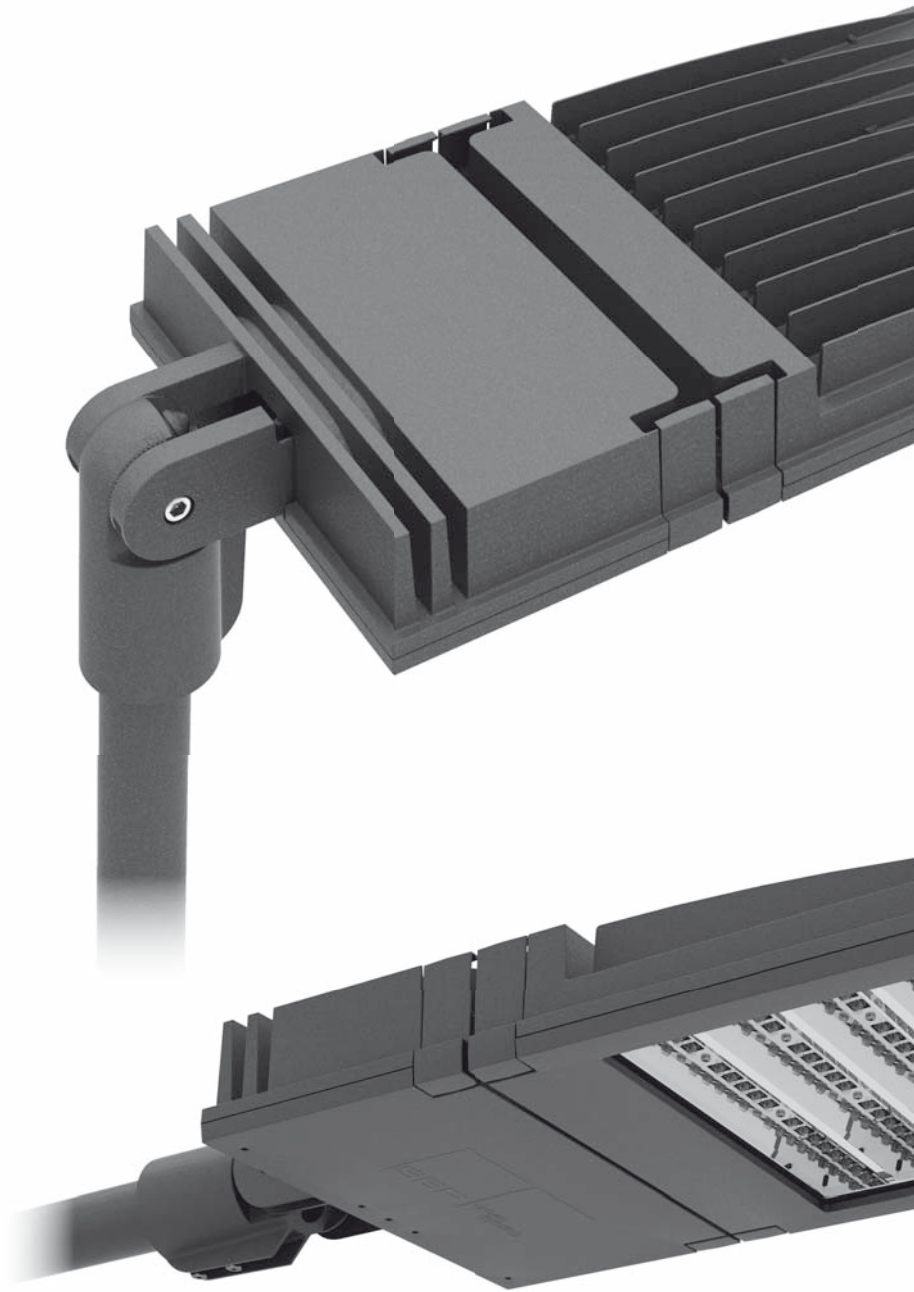
Technopolymer wiring plate reinforced with fibreglass.

Power terminal, automatic disconnect switch, for 1÷2,5 mm² cables that allows for automatically disconnecting the network when the component compartment is opened.

Polyamide M25x1.5 pull-out resistant cable gland, for Ø 9-14 mm cables.

Stainless steel external screws.

High-efficiency electronic ballast for a nominal voltage range of 220-240 V 50/60 Hz.



96

CLASS II



IP 66



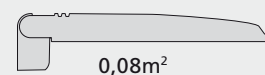
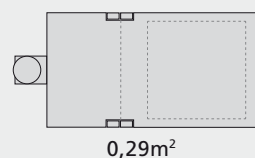
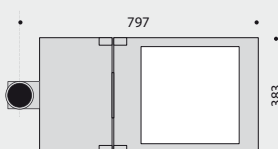
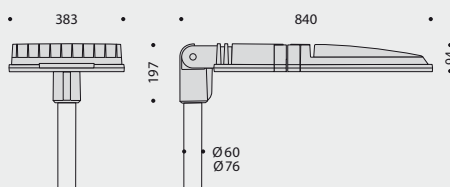
IK 08
5J

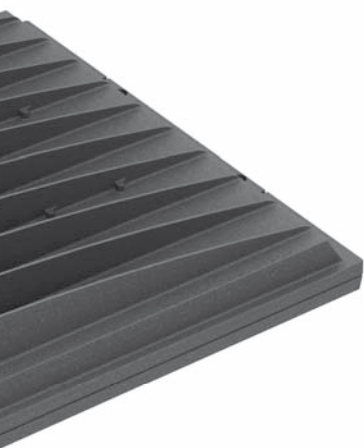


M25x1,5
Ø9÷Ø14



H05RN-F 2G1,5





Ø 60
Ø 76

ATON LED / 6000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	cosφ ≥ 0,9	Code	Notes
n. 35 led 530mA	52,5W		6000	SR	96	II	ETRC		•	06042796	
n. 40 led 530mA	60W		6000	SR	96	II	ETRC		•	06042996	
n. 55 led 530mA	82,5W		6000	SR	96	II	ETRC		•	06043196	
n. 75 led 530mA	112,5W		6000	SR	96	II	ETRC		•	06043396	

ATON LED / 4200 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	cosφ ≥ 0,9	Code	Notes
n. 35 led 530mA	52,5W		4200	SR	96	II	ETRC		•	06042896	
n. 40 led 530mA	60W		4200	SR	96	II	ETRC		•	06043096	
n. 55 led 530mA	82,5W		4200	SR	96	II	ETRC		•	06043296	
n. 75 led 530mA	112,5W		4200	SR	96	II	ETRC		•	06043496	



Ø 60
Ø 76

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

ATON LED / 6000 K

Automatic power reduction

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	cosφ ≥ 0,9	Code	Notes
n. 35 led 530mA	52,5W		6000	SR	96	II	ETRC		•	06043596	
n. 40 led 530mA	60W		6000	SR	96	II	ETRC		•	06043796	
n. 55 led 530mA	82,5W		6000	SR	96	II	ETRC		•	06043996	
n. 75 led 530mA	112,5W		6000	SR	96	II	ETRC		•	06044196	

ATON LED / 4200 K

Automatic power reduction

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	cosφ ≥ 0,9	Code	Notes
n. 35 led 530mA	52,5W		4200	SR	96	II	ETRC		•	06043696	
n. 40 led 530mA	60W		4200	SR	96	II	ETRC		•	06043896	
n. 55 led 530mA	82,5W		4200	SR	96	II	ETRC		•	06044096	
n. 75 led 530mA	112,5W		4200	SR	96	II	ETRC		•	06044296	

ACCESSORIES

A0404



A0600



Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

Code	Denomination	Description
14078620	A0404	Supplement for factory fitted photocell (250W max. non-adjustable), to be ordered as a separate item along with luminaire.
14157520	A0600	"SURGE PROTECTION DEVICE" additional feature Protection device against electric overload and electric discharges up to 10 W. To be ordered together with the luminaire.

ATON LED

LED



Max N°75-112,5W

ATON-W LED

Die-cast aluminium body and cover with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment. The luminaire consists of two separate sealed compartments, namely the control gear compartment and the optical compartment, so as to optimise the thermal operating conditions of the electrical components.

Bracket (ATON-Wall LED) made of die-cast aluminium with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment.

Closing clips made of die-cast aluminium with Akzo Nobel 900 Gris Sablé polyester powder coating after phospho-chromatation treatment. During the opening phase, they remain anchored to the body in a captive manner.

Transparent extra-clear flat float soda-lime glass protective screen, thickness 4 mm, thermally tempered (safety glass).

Optic that combines technopolymer lenses with high luminous transmission and an iridescence-free pre-anodised aluminium reflector with ultra-high reflectivity.

White LED light sources available with two color tones: 6000 K and 4200 K.

Optical motor constituted by a combination of multiple LED modules. Each module is specially designed for housing 5 diodes and each one is paired with an electronic device capable of bypassing it in case of catastrophic malfunctions, thereby guaranteeing the flow of current and correct powering of the LED assembly.

Silicone gaskets.

Heat sensor that - when connected to the ballast - reduces the power whenever the LEDs reach critical temperatures, to guarantee long-lasting luminaire operation.

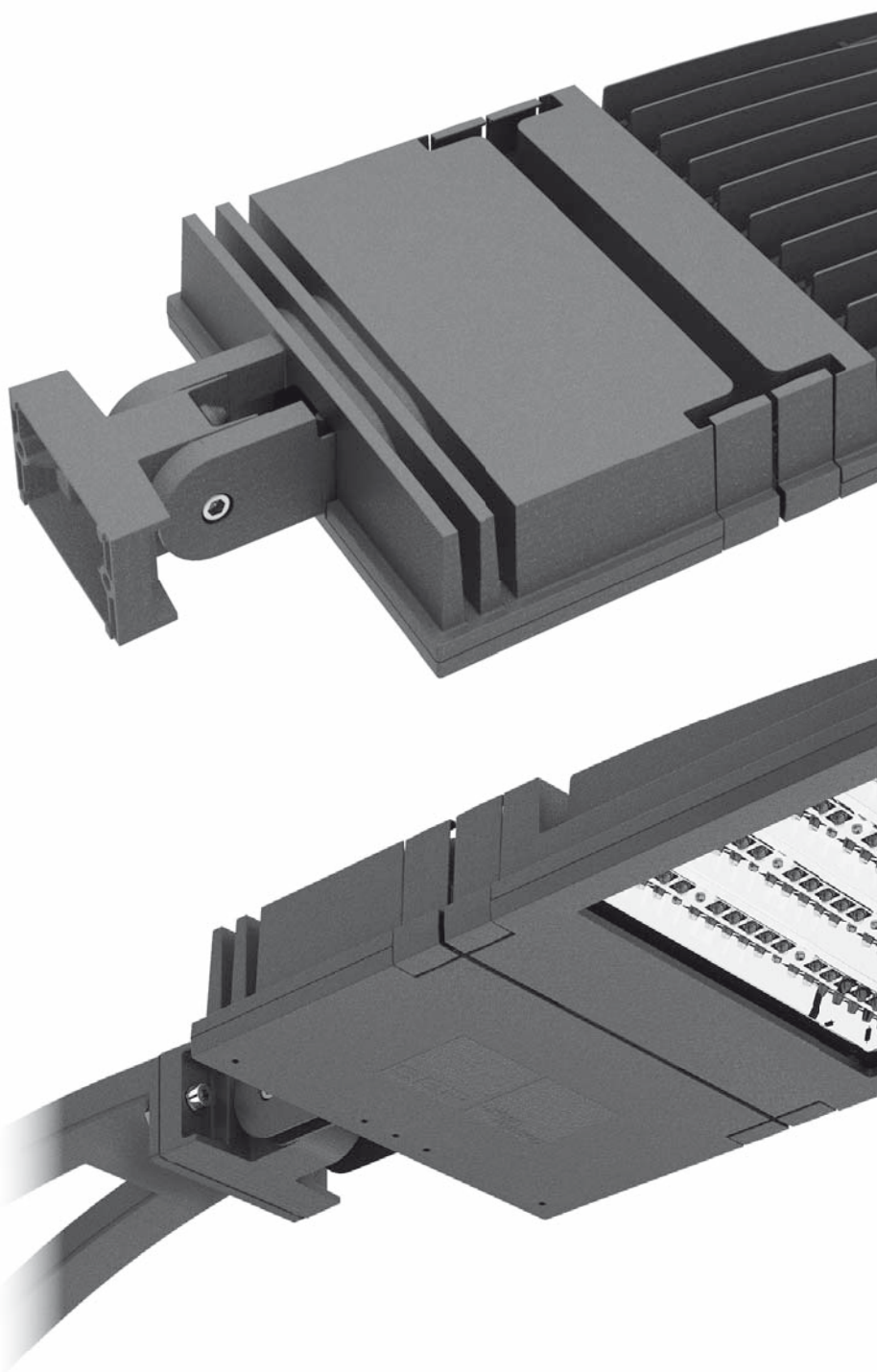
Technopolymer wiring plate reinforced with fibreglass.

Power terminal, automatic disconnect switch, for 1÷2,5 mm² cables that allows for automatically disconnecting the network when the component compartment is opened.

Polyamide M25x1.5 pull-out resistant cable gland, for Ø 9-14 mm cables.

Stainless steel external screws.

High-efficiency electronic ballast for a nominal voltage range of 220-240 V 50/60 Hz.



96

CLASS II



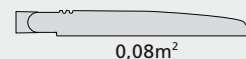
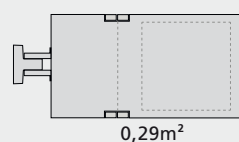
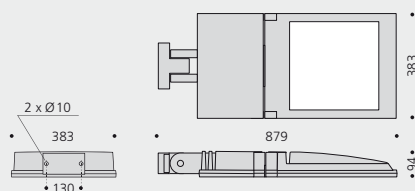
IP 66

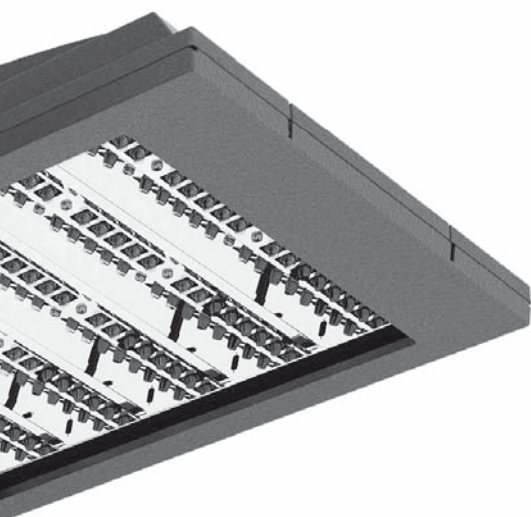
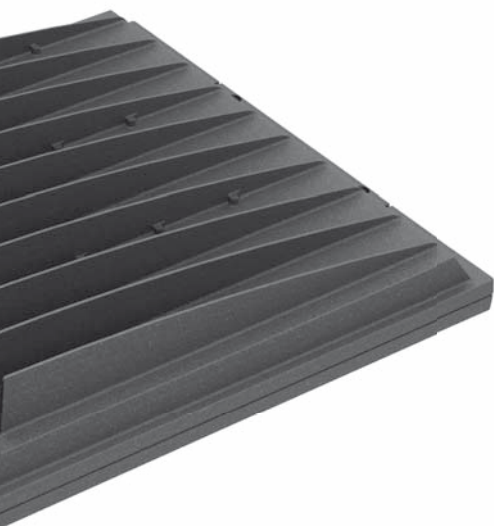
IK 08
SJ

M25x1,5



H05RN-F 2G1,5



**ATON-W LED 6000 K**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 35 LED 530 mA 52,5			6000	SR	96	II	ETRC		•	06049296	
n. 40 LED 530 mA 60			6000	SR	96	II	ETRC		•	06049496	
n. 55 LED 530 mA 82,5			6000	SR	96	II	ETRC		•	06049696	
n. 75 LED 530 mA 112,5			6000	SR	96	II	ETRC		•	06049896	

ATON-W LED 4200 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 35 LED 530 mA 52,5			4200	SR	96	II	ETRC		•	06049396	
n. 40 LED 530 mA 60			4200	SR	96	II	ETRC		•	06049596	
n. 55 LED 530 mA 82,5			4200	SR	96	II	ETRC		•	06049796	
n. 75 LED 530 mA 112,5			4200	SR	96	II	ETRC		•	06049996	

**AUTOMATIC POWER REDUCTION**

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

ATON-W LED 6000 K**Automatic power reduction**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 35 LED 530 mA 52,5			6000	SR	96	II	ETRC		•	06050096	
n. 40 LED 530 mA 60			6000	SR	96	II	ETRC		•	06050296	
n. 55 LED 530 mA 82,5			6000	SR	96	II	ETRC		•	06050496	
n. 75 LED 530 mA 112,5			6000	SR	96	II	ETRC		•	06050696	

ATON-W LED 4200 K**Automatic power reduction**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n. 35 LED 530 mA 52,5			4200	SR	96	II	ETRC		•	06050196	
n. 40 LED 530 mA 60			4200	SR	96	II	ETRC		•	06050396	
n. 55 LED 530 mA 82,5			4200	SR	96	II	ETRC		•	06050596	
n. 75 LED 530 mA 112,5			4200	SR	96	II	ETRC		•	06050796	

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

ACCESSORIES

Code	Denomination	Description
14078620	A0404	Supplement for factory fitted photocell (250W max. non-adjustable), to be ordered as a separate item along with luminaire.
14157520	A0600	"SURGE PROTECTION DEVICE" additional feature Protection device against electric overload and electric discharges up to 10 W. To be ordered together with the luminaire.

ATON-W LED

LED		Max N°75-112,5W
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ATON-W LED

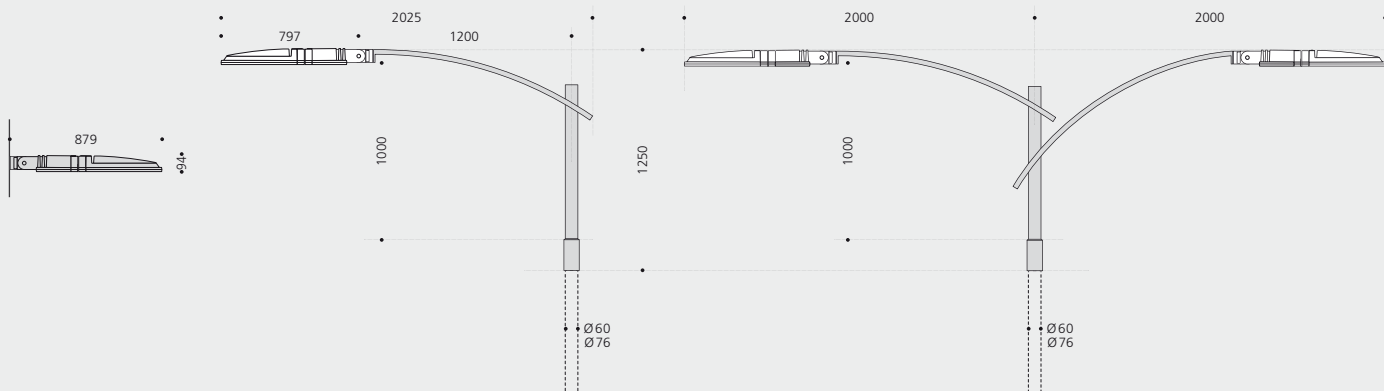
Suitable for ATON-Wall only:

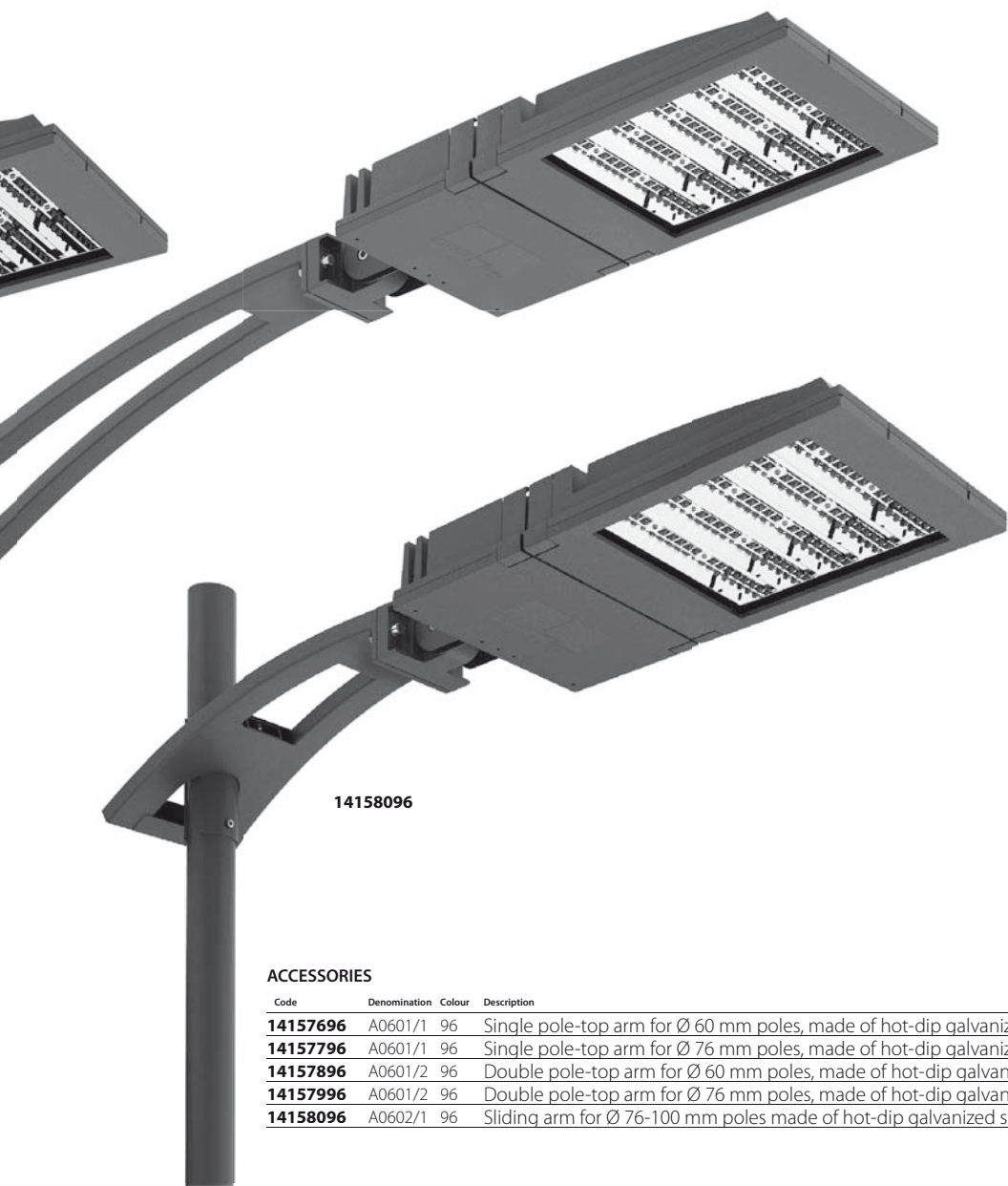
- Single pole-top arm for Ø 60 or Ø 76 mm poles, made of hot-dip galvanized sheet steel.
- Double pole-top arm for Ø 60 or Ø 76 mm poles, made of hot-dip galvanized sheet steel.
- Sliding arm for Ø 76-100 mm poles made of hot-dip galvanized sheet steel.

14157696
14157796

14157896
14157996

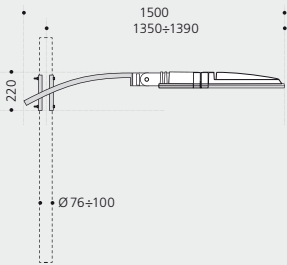
96





ACCESSORIES

Code	Denomination	Colour	Description
14157696	A0601/1	96	Single pole-top arm for Ø 60 mm poles, made of hot-dip galvanized sheet steel.
14157796	A0601/1	96	Single pole-top arm for Ø 76 mm poles, made of hot-dip galvanized sheet steel.
14157896	A0601/2	96	Double pole-top arm for Ø 60 mm poles, made of hot-dip galvanized sheet steel.
14157996	A0601/2	96	Double pole-top arm for Ø 76 mm poles, made of hot-dip galvanized sheet steel.
14158096	A0602/1	96	Sliding arm for Ø 76-100 mm poles made of hot-dip galvanized sheet steel.



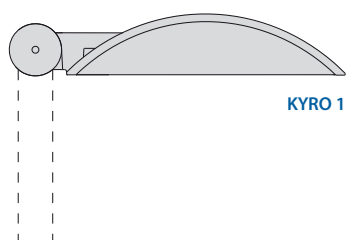


KYRO

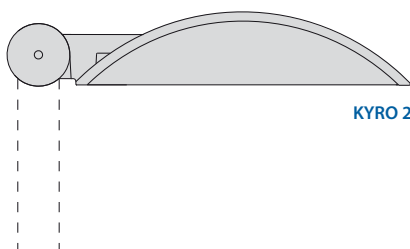
design Silvia Paola Pennacchio

KYRO high performance public area lighting luminaires available in two sizes; KYRO 1, KYRO 2

combining contemporary aesthetics with a highly functional performance to suit a variety of public area lighting applications. KYRO has a compact contemporary design and a highly efficient photometric performance with full cut-off for zero upward light pollution. The KYRO range is available in two sizes with a variety of light sources offering a highly flexible luminaire suitable for public area lighting, residential lighting, and street lighting applications.



KYRO 1



KYRO 2



Sophisticated "cut off" reflectors designed with the latest generation software and high quality materials. High purity aluminium reflectors combined with high light transmission coefficient clear glass offer increased performance. High uniformity and efficiency with visual comfort, full cut-off for

zero upward dark sky, providing increased luminaire spacing.



Power reduction by pilot control

The luminaires are equipped with power reducer and switching device, controlled by a supplemental control line (pilot control). The pilot control acts on the device changing over the power supply of the lamp from 100% to the reduced power. In order not to damage the lamp, the switching device assures the lamp ignition always at 100% until the lamp gets stabilized. This in case of black-out, when the lighting installation is working on reduced power.

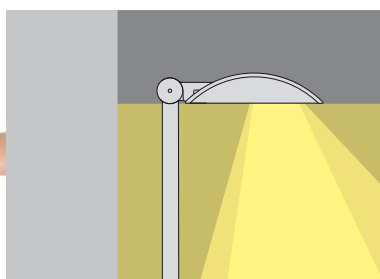
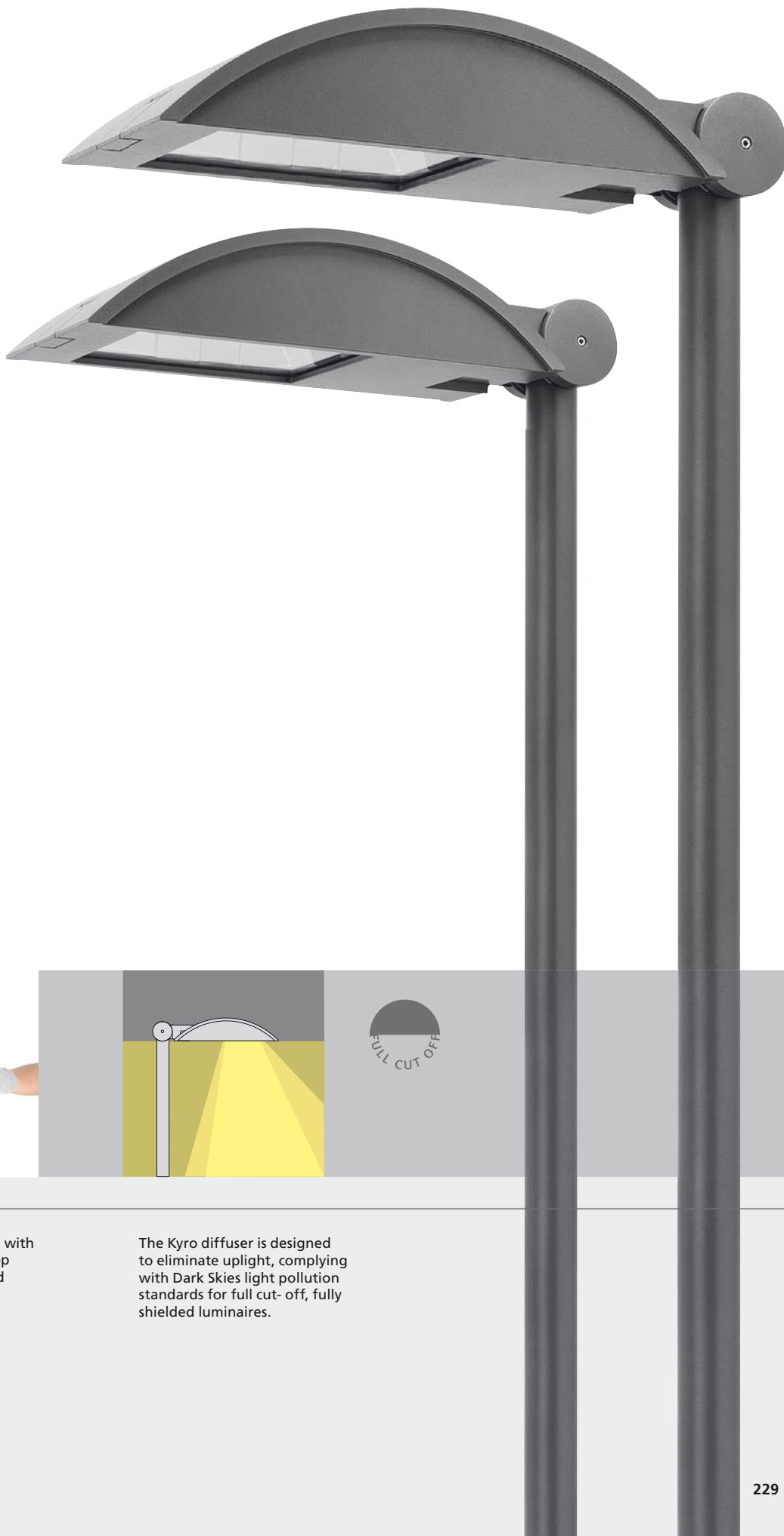
Automatic power reduction

The luminaire is equipped with a bi-powered ballast and an automatic converter which automatically changes over and reduces the luminous flux without using control cables. The use of these components allows energy efficient power reduction installations without the need for supplementary control wiring, which is an ideal solution for new and existing installations.

If the installation is controlled by a photocell, depending on its switching on/off, the converter calculates automatically midnight in order to program the change-over to power reduction.

KYRO 1 - 2

Body and cover in die-cast aluminium finished classified IP66 rating.
 High purity aluminium reflector anodised and polished.
 Toughened safety glass (KYRO 1: IK 09/10J, KYRO 2: IK 08/7J).
 Silicone rubber anti-ageing gaskets.
 Supply: 230V/50Hz $\cos\varphi \geq 0.9$, other voltages available on request.
 Dual power ballast with light flux regulation control system and photocell sensors are available on demand.
 Polyamide M25 cable gland for Ø9-14mm cables.
 Rubber sealing gaskets to suit various cable sizes are available as a kit of accessories.
 A2 stainless steel external screws.
 Special versions; voltage / frequency, fuses, timed ignitor, photocell, light flux regulation control system etc. available on request.

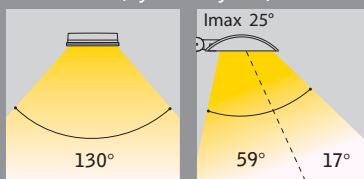


Accessibility for easy and safe maintenance with wide opening cover access (170° for post-top version and 80° for curved arm version) and locking cover arm stay.

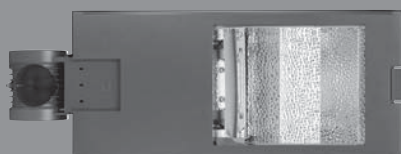
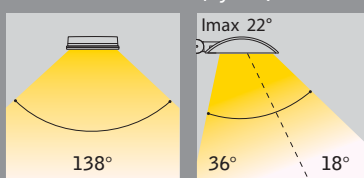
The Kyro diffuser is designed to eliminate uplight, complying with Dark Skies light pollution standards for full cut-off, fully shielded luminaires.



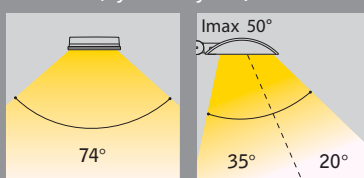
KYRO /LED (Kyro 1 - Kyro 2)



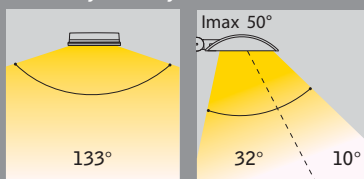
KYRO 1 /LED-WIDE (Kyro 1)



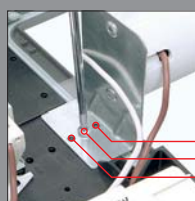
KYRO 1A (Kyro 1 - Kyro 2)



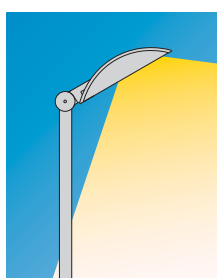
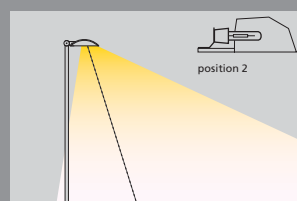
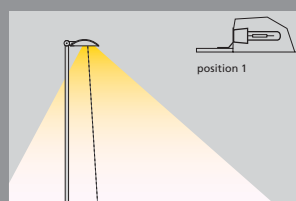
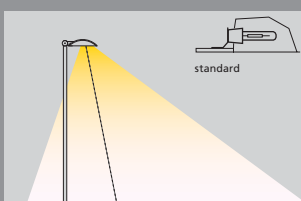
KYRO (Kyro 1 - Kyro 2)



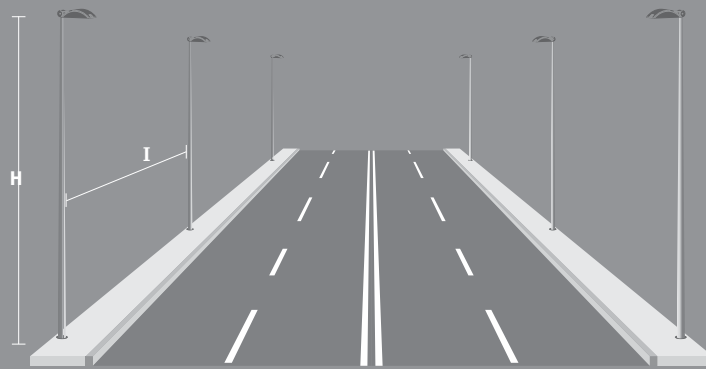
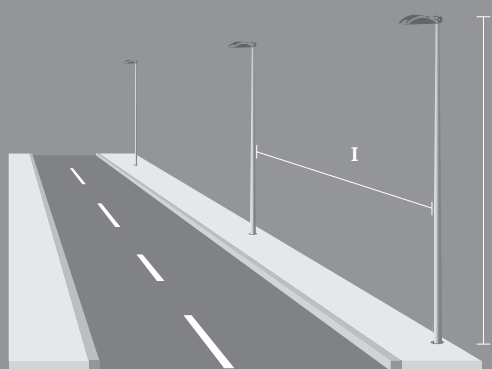
Kyro luminaires have an adjustable lamp positioning system which provides forward or backward throw of light distribution.



Pos. 2 = Flux ←
Pos. 0 Standard
Pos. 1 = Flux →

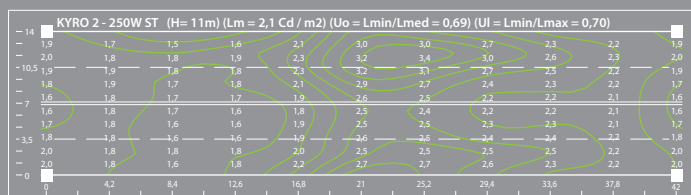
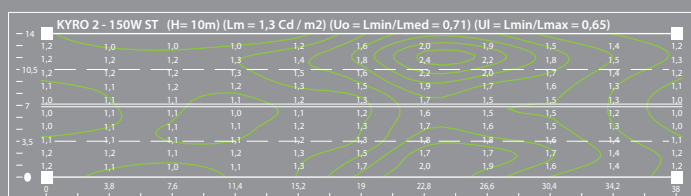
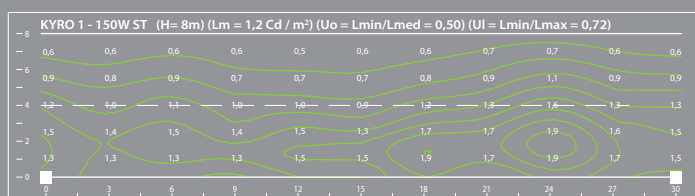


Luminaire angle adjustable by locking rack system provides 5° adjustments from 0° horizontal to +30° incline.



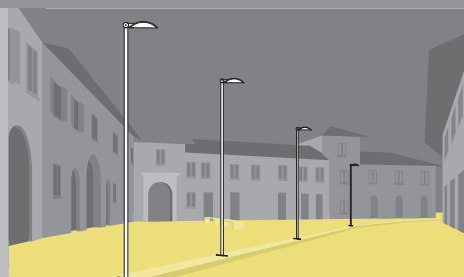
KYRO 1		H	I	W	Tab	Lm	U0	UI	Ti	Em	Mf	Tilt
70W	ST	6	20	6	C2	1,1	0,52	0,77	6,52	18	0,80	0°
100W	ME	7	24	6	C2	0,8	0,61	0,71	3,46	14	0,80	0°
140W	MT	8	30	8	C2	1,2	0,59	0,70	6,21	21	0,80	0°
150W	ST	8	30	8	C2	1,2	0,50	0,72	6,78	22	0,80	0°
KYRO 2												
150W	ST	8	30	8	C2	1,5	0,50	0,71	5,68	24	0,80	0°
250W	ST	10	37	9	C2	1,7	0,52	0,70	5,09	30	0,80	0°
400W	ST	12	48	10	C2	2,0	0,57	0,70	5,29	35	0,80	0°

KYRO 2		H	I	W	Tab	Lm	U0	UI	Ti	Em	Mf	Tilt
150W	ST	10	38	14	C2	1,3	0,71	0,65	4,36	22	0,80	0°
250W	ST	11	42	14	C2	2,1	0,69	0,70	5,95	36	0,80	0°
400W	ST	12	46	14	C2	3,3	0,73	0,70	4,58	60	0,80	0°



H	Pole height (mt)
I	Poles interdistance (mt)
W	Street wideness (mt)
Tab	Reflection factor
Lm	Average luminance (Cd/m ²)
U0	General uniformity
UI	Longitudinal uniformity
Ti	Glare factor(%)
Em	Average lighting (Lux)
Mf	Maintenance coefficient
Tilt	Inclination angle

The use of high efficiency lamp sources makes it possible to increase spacing between luminaires, thus reducing installation and operating costs. Further energy savings is added by using dual power ballasts, providing light output regulation control for nighttime use.



Landscape, public and pedestrian areas

Streets

KYRO 1



KYRO 1 / LED 6000 K/4200 K/3000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.30 led 350mA	33W		6000	SR	96	II	ETRC		•	06027996	
n.30 led 500mA	48W		6000	SR	96	II	ETRC		•	06028096	
n.30 led 350mA	33W		4200	SR	96	II	ETRC		•	06040096	
n.30 led 500mA	48W		4200	SR	96	II	ETRC		•	06040196	
n.30 led 350mA	33W		3000	SR	96	II	ETRC		•	06035196	
n.30 led 500mA	48W		3000	SR	96	II	ETRC		•	06035296	



KYRO 1 D76 - LED 6000 K/4200 K/3000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.30 led 350mA	33W		6000	SR	96	II	ETRC		•	06028196	
n.30 led 500mA	48W		6000	SR	96	II	ETRC		•	06028296	
n.30 led 350mA	33W		4200	SR	96	II	ETRC		•	06040296	
n.30 led 500mA	48W		4200	SR	96	II	ETRC		•	06040396	
n.30 led 350mA	33W		3000	SR	96	II	ETRC		•	06035396	
n.30 led 500mA	48W		3000	SR	96	II	ETRC		•	06035496	



KYRO 1 / LED WIDE 6000 K / 4200 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.15 led 350mA	16,5W		6000	SR	96	II	ETRC		•	06055696	
n.15 led 500mA	24W		6000	SR	96	II	ETRC		•	06055796	
n.15 led 700mA	30W		6000	SR	96	II	ETRC		•	06055896	
n.15 led 350mA	16,5W		4200	SR	96	II	ETRC		•	06055996	
n.15 led 500mA	24W		4200	SR	96	II	ETRC		•	06056096	
n.15 led 700mA	30W		4200	SR	96	II	ETRC		•	06056196	

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.



KYRO 1 / LED WIDE 6000 K / 4200 K

Automatic power reduction

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.15 led 350mA	16,5W		6000	SR	96	II	ETRC		•	06056296	
n.15 led 500mA	24W		6000	SR	96	II	ETRC		•	06056396	
n.15 led 700mA	30W		6000	SR	96	II	ETRC		•	06056496	
n.15 led 350mA	16,5W		4200	SR	96	II	ETRC		•	06056596	
n.15 led 500mA	24W		4200	SR	96	II	ETRC		•	06056696	
n.15 led 700mA	30W		4200	SR	96	II	ETRC		•	06056796	

KYRO 1-D76 / LED WIDE 6000 K / 4200 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.15 led 350mA	16,5W		6000	SR	96	II	ETRC		•	06056896	
n.15 led 500mA	24W		6000	SR	96	II	ETRC		•	06056996	
n.15 led 700mA	30W		6000	SR	96	II	ETRC		•	06057096	
n.15 led 350mA	16,5W		4200	SR	96	II	ETRC		•	06057196	
n.15 led 500mA	24W		4200	SR	96	II	ETRC		•	06057296	
n.15 led 700mA	30W		4200	SR	96	II	ETRC		•	06057396	

AUTOMATIC POWER REDUCTION

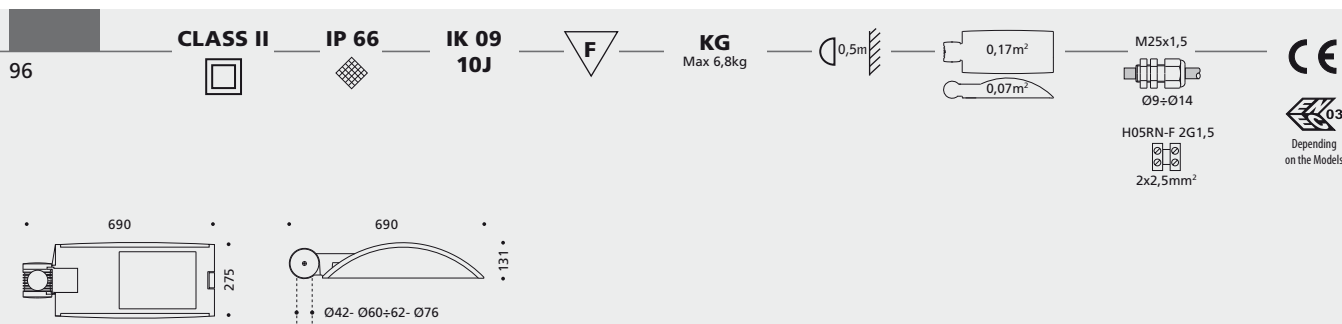
The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

KYRO 1-D76 / LED WIDE 6000 K / 4200 K

Automatic power reduction

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
n.15 led 350mA	16,5W		6000	SR	96	II	ETRC		•	06057496	
n.15 led 500mA	24W		6000	SR	96	II	ETRC		•	06057596	
n.15 led 700mA	30W		6000	SR	96	II	ETRC		•	06057696	
n.15 led 350mA	16,5W		4200	SR	96	II	ETRC		•	06057796	
n.15 led 500mA	24W		4200	SR	96	II	ETRC		•	06057896	
n.15 led 700mA	30W		4200	SR	96	II	ETRC		•	06057996	

Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.



**KYRO 1/A**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
RX7s	70W	SD-MD	A 54	96	II	CR			•	05236396	•	
RX7s	150W	SD-MD	A 54	96	II	CR			•	05236496	•	
RX7s	70W	MD	A 54	96	II	ETRC			•	05319196	•	
RX7s	70W	SD	A 54	96	II	ETRC			•	05319396	•	

POWER REDUCTION BY PILOT CONTROL LINE

The luminaires are equipped with bi-powered ballast and Power changeover switch, controlled by a supplemental control line (pilot control).

KYRO 1/A *Power reduction by pilot control*

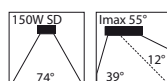
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
RX7s	70/50W	SD	A 54	96	II	CR			•	05319496	
RX7s	150/100W	SD	A 54	96	II	CR			•	05319596	

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

KYRO 1/A *Automatic power reduction*

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
RX7s	70/50W	SD	A 54	96	II	CR			•	05319696	
RX7s	150/100W	SD	A 54	96	II	CR			•	05319796	

**KYRO 1-D76 /A**

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	CE
RX7s	70W	SD-MD	A 54	96	II	CR			•	05307796	•	
RX7s	150W	SD-MD	A 54	96	II	CR			•	05307896	•	
RX7s	70W	MD	A 54	96	II	ETRC			•	05321096	•	
RX7s	70W	SD	A 54	96	II	ETRC			•	05321196	•	

POWER REDUCTION BY PILOT CONTROL LINE

The luminaires are equipped with bi-powered ballast and Power changeover switch, controlled by a supplemental control line (pilot control).

KYRO 1-D76 /A *Power reduction by pilot control*

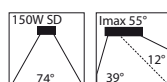
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
RX7s	70/50W	SD	A 54	96	II	CR			•	05321296	
RX7s	150/100W	SD	A 54	96	II	CR			•	05321396	

AUTOMATIC POWER REDUCTION

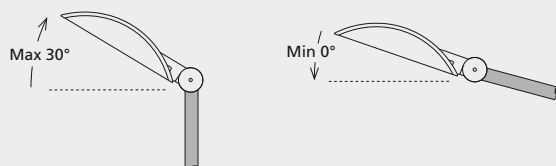
The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

KYRO 1-D76 /A *Automatic power reduction*

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
RX7s	70/50W	SD	A 54	96	II	CR			•	05321496	
RX7s	150/100W	SD	A 54	96	II	CR			•	05321596	



Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

**KYRO 1/A - KYRO 1 D76/A**

LED	Max N°30-48W
SD	RX7s 70÷150W NAV-TS
MD	RX7s 70÷150W HQI-TS/HCI-TS/MH-TD/CDM-TD

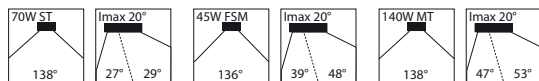


POWER REDUCTION BY PILOT CONTROL LINE

The luminaires are equipped with bi-powered ballast and Power changeover switch, controlled by a supplemental control line (pilot control).

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.



KYRO 1

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL	Cosp ≥ 0,9	Code	Notes	
E27	50W	ST		SR	96	II	CR	-		05214496		•
E27	70W	ST		SR	96	II	CR	-		05214596		•
E40	100W	ST-MT		SR	96	II	CR	-		05214696		•
E40	150W	ST-MT		SR	96	II	CR	-		05214796		•
E27	70W	SE/I		SR	96	II	CR	-		05216196	⚠	•
E27	70W	ME		SR	96	II	CR	-		05214896		•
E27	100W	ME		SR	96	II	CR	-		05214996		•
E27	150W	ME		SR	96	II	CR	-		05215096		•
E27	70W	ST-MT		SR	96	II	ETRC	-		05318396	⚠	•
E40	100W	ST-MT		SR	96	II	ETRC	-		05318496	⚠	•
E27	70W	ME		SR	96	II	ETRC	-		05318596	⚠	•
E27	100W	ME		SR	96	II	ETRC	-		05318696	⚠	•
PGZ12	45W	MT		SR	96	II	ETRC	-		05318196	⚠	•
PGZ12	60W	MT		SR	96	II	ETRC	-		05215396	⚠	•
PGZ12	90W	MT		SR	96	II	ETRC	-		05318296	⚠	•
PGZ12	140W	MT		SR	96	II	ETRC	-		05215496	⚠	•
GX24q-3	26 - 32 - 42W	FSQ - FSMH		SR	96	II	ETRC	A2		05215196	⚠	•
GX24q-5	57W	FSM		SR	96	II	ETRC	A2		05215296	⚠	•

KYRO 1 Power reduction by pilot control

E27	70/50W	ST		SR	96	II	CR	-		05318796		•
E40	100/70W	ST		SR	96	II	CR	-		05318896		•
E40	150/100W	ST		SR	96	II	CR	-		05295796		•

KYRO 1 Automatic power reduction

E27	70/50W	ST		SR	96	II	CR	-		05318996		•
E40	100/70W	ST		SR	96	II	CR	-		05319096		•
E40	150/100W	ST		SR	96	II	CR	-		05295696		•

KYRO 1-D76

E27	50W	ST		SR	96	II	CR	-		05306596		•
E27	70W	ST		SR	96	II	CR	-		05306696		•
E40	100W	ST-MT		SR	96	II	CR	-		05306796		•
E40	150W	ST-MT		SR	96	II	CR	-		05306896		•
E27	70W	SE/I		SR	96	II	CR	-		05306996	⚠	•
E27	70W	ME		SR	96	II	CR	-		05307096		•
E27	100W	ME		SR	96	II	CR	-		05307196		•
E27	150W	ME		SR	96	II	CR	-		05307296		•
E27	70W	ST-MT		SR	96	II	ETRC	-		05320096	⚠	•
E40	100W	ST-MT		SR	96	II	ETRC	-		05320196	⚠	•
E27	70W	ME		SR	96	II	ETRC	-		05320296	⚠	•
E27	100W	ME		SR	96	II	ETRC	-		05320396	⚠	•
PGZ12	45W	MT		SR	96	II	ETRC	-		05319896		•
PGZ12	60W	MT		SR	96	II	ETRC	-		05307596	⚠	•
PGZ12	90W	MT		SR	96	II	ETRC	-		05319996	⚠	•
PGZ12	140W	MT		SR	96	II	ETRC	-		05307696	⚠	•
GX24q-3	26 - 32 - 42W	FSQ - FSMH		SR	96	II	ETRC	A2		05307396	⚠	•
GX24q-5	57W	FSM		SR	96	II	ETRC	A2		05307496	⚠	•

KYRO 1-D76 Power reduction by pilot control

E27	70/50W	ST		SR	96	II	CR	-		05320496		•
E40	100/70W	ST		SR	96	II	CR	-		05320596		•
E40	150/100W	ST		SR	96	II	CR	-		05320696		•

KYRO 1-D76 Automatic power reduction

E27	70/50W	ST		SR	96	II	CR	-		05320796		•
E40	100/70W	ST		SR	96	II	CR	-		05320896		•
E40	150/100W	ST		SR	96	II	CR	-		05320996		•

Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

For lamps with integral ignitor.



KYRO 1 - KYRO 1 D76

ST	E27	50÷70W	NAV-T/SON-T
ST	E40	100÷150W	NAV-T/SON-T
MT	E40	100÷150W	CDO-TT/HCI-TT
MT	PGZ12	45÷140W	CPO-TW
SE/I	E27	70W	NAV-E ⚠
ME	E27	70÷150W	HQI-E/CDO-ET
FSMH	GX24q-3/4	32-42W	DULUX T-E/PLT-4Pin
FSMH	GX24q-5	57W	PLT-4Pin
FSQ	GX24q-3	26W	DULUX D-E/PLC-4Pin

KYRO 2



Ø60 - Ø76



Ø60 - Ø76

POWER REDUCTION BY PILOT CONTROL LINE

The luminaires are equipped with bi-powered ballast and Power changeover switch, controlled by a supplemental control line (pilot control).

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.



Ø60 - Ø76

POWER REDUCTION BY PILOT CONTROL LINE

The luminaires are equipped with bi-powered ballast and Power changeover switch, controlled by a supplemental control line (pilot control).

AUTOMATIC POWER REDUCTION

The luminaire is equipped with a bi-powered ballast and an automatic power reduction which reduce the luminous flux without using control line.

KYRO 2 - LED 6000 K

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
n.56 led 350mA	61,6W		6000	SR	96	II	ETRC			• 06028996		
n.56 led 500mA	89,6W		6000	SR	96	II	ETRC			• 06029096		

KYRO 2 - LED 4200 K

n.56 led 350mA	61,6W		4200	SR	96	II	ETRC			• 06040496		
n.56 led 500mA	89,6W		4200	SR	96	II	ETRC			• 06040596		

KYRO 2 - LED 3000 K

n.56 led 350mA	61,6W		3000	SR	96	II	ETRC			• 06035596		
n.56 led 500mA	89,6W		3000	SR	96	II	ETRC			• 06035696		

KYRO 2

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes	
E40	150W	ST-MT		SR	96	II	CR			• 05213996		
E40	250W	ST-MT		SR	96	II	CR			• 05214096		
E40	400W	ST-MT		SR	96	II	CR			• 05214196		
E40	150W	ST		SR	96	II	ETRC			• 05321696		
E40	150W	MT		SR	96	II	ETRC			• 05321796		
E40	250W	ST		SR	96	II	ETRC			• 05321896		
E40	250W	MT		SR	96	II	ETRC			• 05321996		
PGZ18	210W	MT		SR	96	II	ETRC			• 05322096		

KYRO 2 Power reduction by pilot control

E40	150/100W	ST		SR	96	II	CR			• 05322896		
E40	250/150W	ST		SR	96	II	CR			• 05322996		

KYRO 2 Automatic power reduction

E40	150/100W	ST		SR	96	II	CR			• 05323096		
E40	250/150W	ST		SR	96	II	CR			• 05323196		



KYRO 2/A

RX7s	150W	SD		A 52	96	II	CR			• 05237496		
Fc2	250W	MD		A 52	96	II	CR			• 05237596		
Fc2	250W	SD		A 52	96	II	CR			• 05237696		
Fc2	400W	SD-MD		A 52	96	II	CR			• 05237796		
RX7s	150W	SD		A 52	96	II	ETRC			• 05323296		
RX7s	150W	MD		A 52	96	II	ETRC			• 05323396		
Fc2	250W	SD		A 52	96	II	ETRC			• 05323496		
Fc2	250W	MD		A 52	96	II	ETRC			• 05323596		

KYRO 2/A Power reduction by pilot control

RX7s	150/100W	SD		A 52	96	II	CR			• 05323696		
Fc2	250/150W	SD		A 52	96	II	CR			• 05323796		

KYRO 2/A Automatic power reduction

RX7s	150/100W	SD		A 52	96	II	CR			• 05323896		
Fc2	250/150W	SD		A 52	96	II	CR			• 05323996		



Complete with electronic ballast non dimmable 220÷240 V 50/60 Hz.

96

CLASS II

IP 66

IK 08
7J

F

KG
Max 12,8 kg

0,5m

M25x1,5
Ø9-Ø14

0,24m²
0,1m²

CE

03
Depending on the Models

835

275

835

155

Ø42- Ø60÷62- Ø76

Max 30°

Min 0°

KYRO 2

LED	PGZ18	210W	Max N°56-89,6W
MT	E40	Max 150W	CDM-Tm
MT	E40	Max 400W	HQI-TT HCI-TT
MT	E40	Max 400W	HQI-T/D HQI-BT/D
ST	E40	Max 400W	NAV-T/SON-T

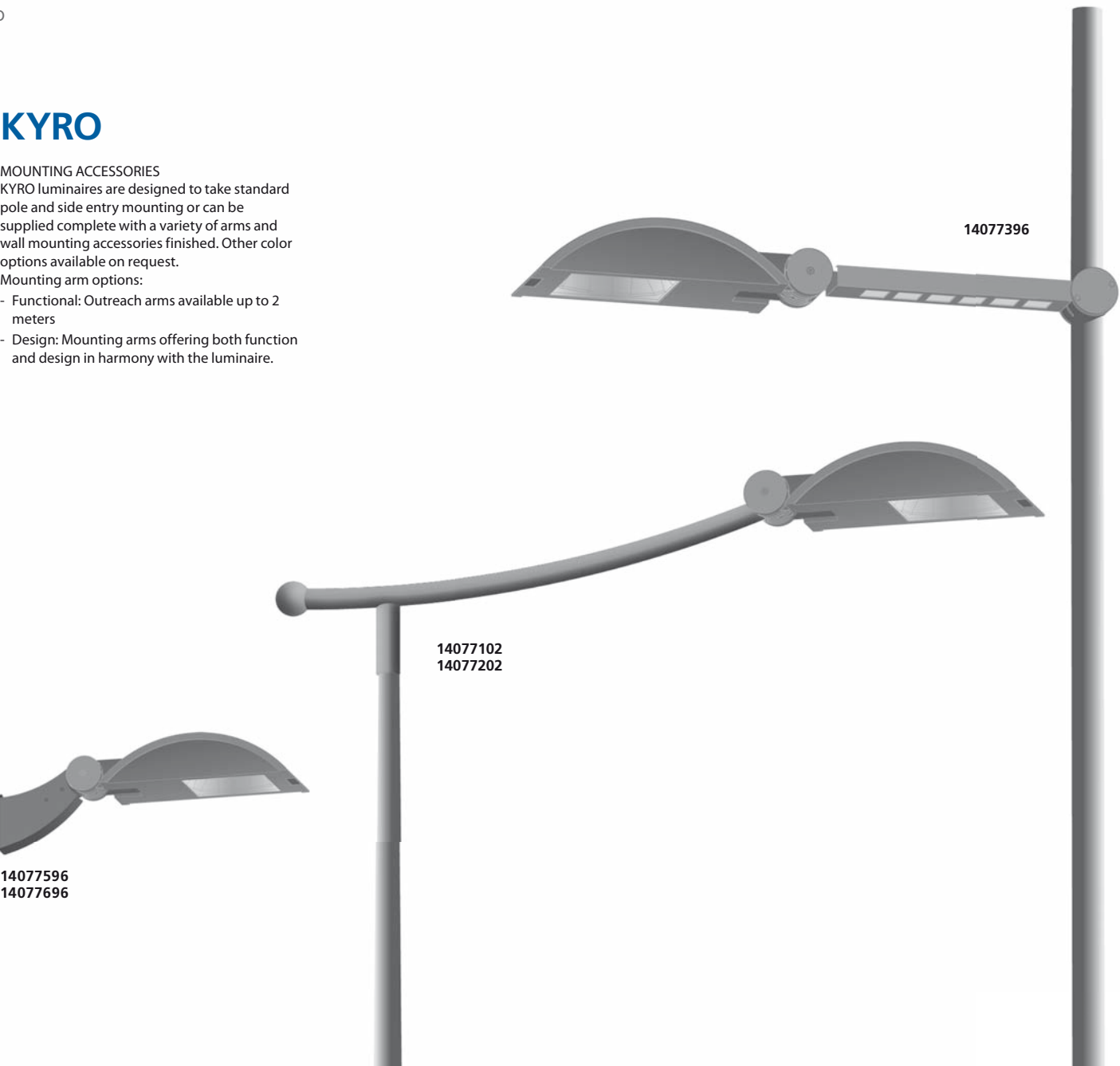
KYRO 2/A

MD	RX7s	150W	HQI-TS/HCI-TS/MH-TD/CDM-TD
MD	Fc2	250÷400W	HQI-TS/MH-TD
MD	Fc2	250÷400W	HQI-TS
SD	RX7s	150W	NAV-TS
SD	Fc2	250÷400W	NAV-TS

KYRO

MOUNTING ACCESSORIES
KYRO luminaires are designed to take standard pole and side entry mounting or can be supplied complete with a variety of arms and wall mounting accessories finished. Other color options available on request.

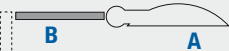
- Mounting arm options:
- Functional: Outreach arms available up to 2 meters
 - Design: Mounting arms offering both function and design in harmony with the luminaire.



COMPLETE UNIT (WALL MOUNT)

1A+1B = 2 codes

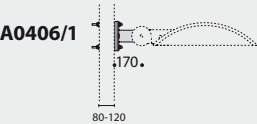
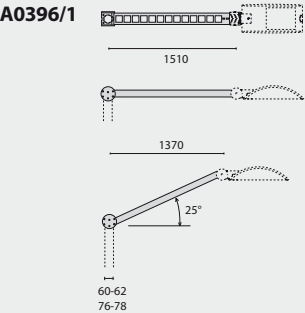
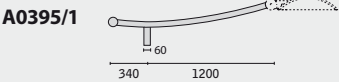
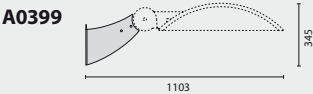
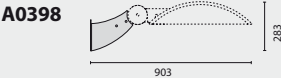
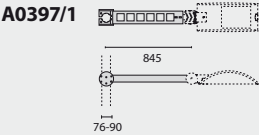
	COMPONENTS
A	Kyro luminaire
D	wall mount kit



COMPLETE UNIT

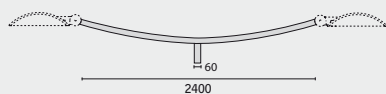
1A+1B = 2 codes

	COMPONENTS
A	Kyro luminaire
B	Arm

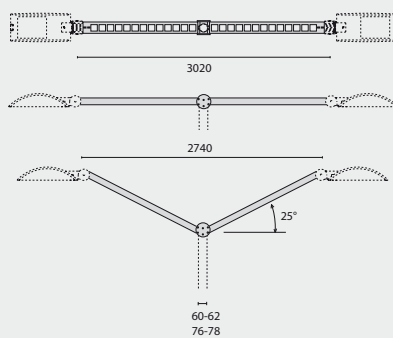




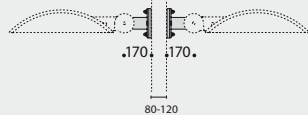
A0395/2



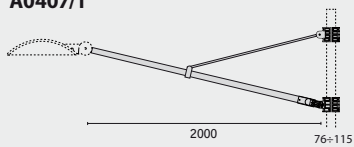
A0396/2



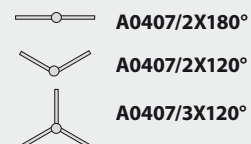
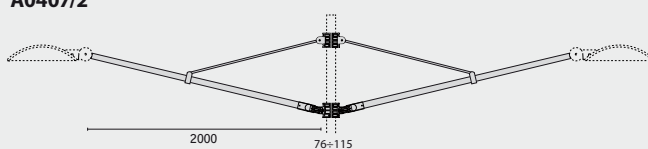
A0406/2



A0407/1



A0407/2



KYRO



Code	Denomination	Description
14025220	A0247 / 70W	Supplement for factory fitted timed ignitor for ST and SD lamps , to be ordered as a separate item along with luminaire, according to specific lamp version.
14015020	A0219 / 100÷250W	
14078520	A0403 / 400W	
14077820	A0400	Kit of 10 rubber sealing gaskets for up to 2 no. Ø8 mm cables
14077920	A0401	Kit of 10 rubber sealing gasket for 1 no. flat cable 19x5,8 mm.
14078120	A0402 / 2A 50-70-100W	Supplement for factory fitted fuse holder + ceramic fuse 10x38mm, to be ordered as a separate item along with luminaire, according to specific lamp version.
14078220	A0402 / 4A 150W	
14078320	A0402 / 6A 250W	
14078420	A0402 / 10A 400W	
14078620	A0404	Supplement for factory fitted photocell (250 W max. non-adjustable), to be ordered as a separate item along with luminaire.
14140920	A0574/35-400W	Supplement for factory fitted timed ignitor for MT, ME and MD lamps , to be ordered as a separate item along with luminaire, according to specific lamp version.

MOUNTING ACCESSORIES

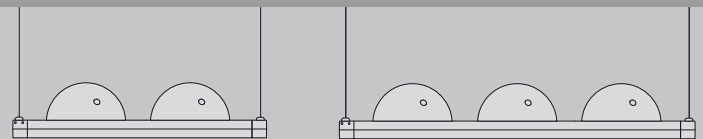
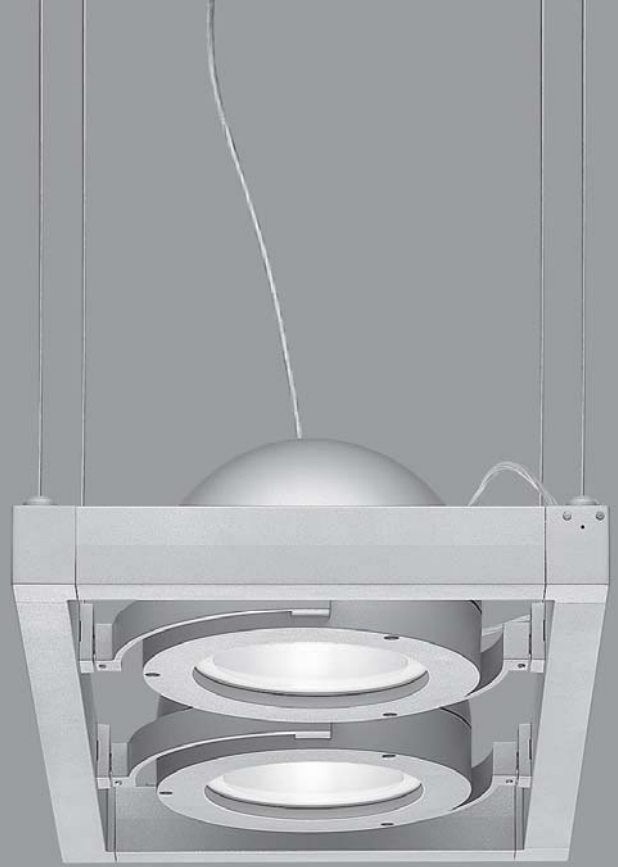
Code	Denomination	Colour	Description
14077102	A0395/1		Single 1200 mm or twin (back to back) 2x1200 mm extension arms, hot dipped galvanised steel, suitable for installation on Ø60 mm pole top.
14077202	A0395/2		
14088396	A0395/1	96	Single 1200 mm or twin (back to back) 2x1200 mm extension arms, hot dipped galvanised steel finished , suitable for installation on Ø60 mm pole top.
14088496	A0395/2	96	
14077396	A0396/1	96	Single 1500 mm or twin (back to back) 2x1500 mm extension arms, phospho-chromate and cataphoresis pre-treated steel finished polyester painted.
14077496	A0396/2	96	Aluminium pole top mounting joint suitable for Ø60 poles (with sleeve) or Ø76 mm poles, available in horizontal or 25° inclined position.
14082096	A0397/1	96	850 mm steel extension arm finished complete with adjustable sliding aluminium pole clamp for Ø76-90 mm poles.
14138196	A0407/1		2000 mm extension arms in hot dipped galvanised tubular steel with aluminium joints finished available as single mounting options on Ø76÷115 mm poles.
14138296	A0407/2x180° A0407/2x120°		2000 mm extension arms in hot dipped galvanised tubular steel with aluminium joints finished available as twin 180° and 120° (back to back) mounting options on Ø76÷115 mm poles.
14138396	A0407/3x120°		2000 mm extension arms in hot dipped galvanised tubular steel with aluminium joints finished available as three 120° mounting options on Ø76÷115 mm poles.
14077596	A0398 (Kyro 1)	96	Wall mounting bracket L=310 mm (Kyro1) and L=370 mm (Kyro2), in phospho-chromate and cataphoresis pre-treated steel finished polyester painted.
14077696	A0399 (Kyro 2)	96	
14081902	A0406 / 1		Hot dipped galvanised steel brackets suitable for installing single or twin luminaires (back to Back) on Ø80-120 mm poles. Complete with fixing rods and nuts, requires poles to be drilled.
14084202	A0406 / 2		
14088696	A0406 / 1	96	Hot dipped galvanised steel finished matt grey brackets suitable for installing single or twin luminaires (back to Back) on Ø80÷120 mm poles. Complete with fixing rods and M8 nuts, requires poles to be drilled.
14088796	A0406 / 2	96	



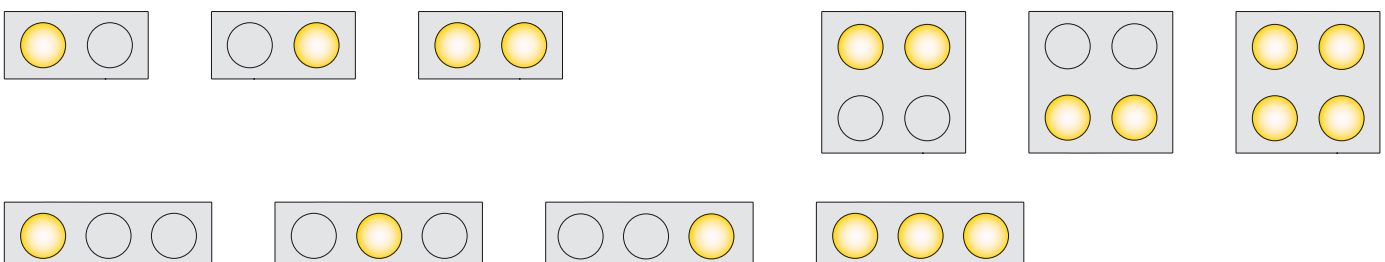
SKYLUM

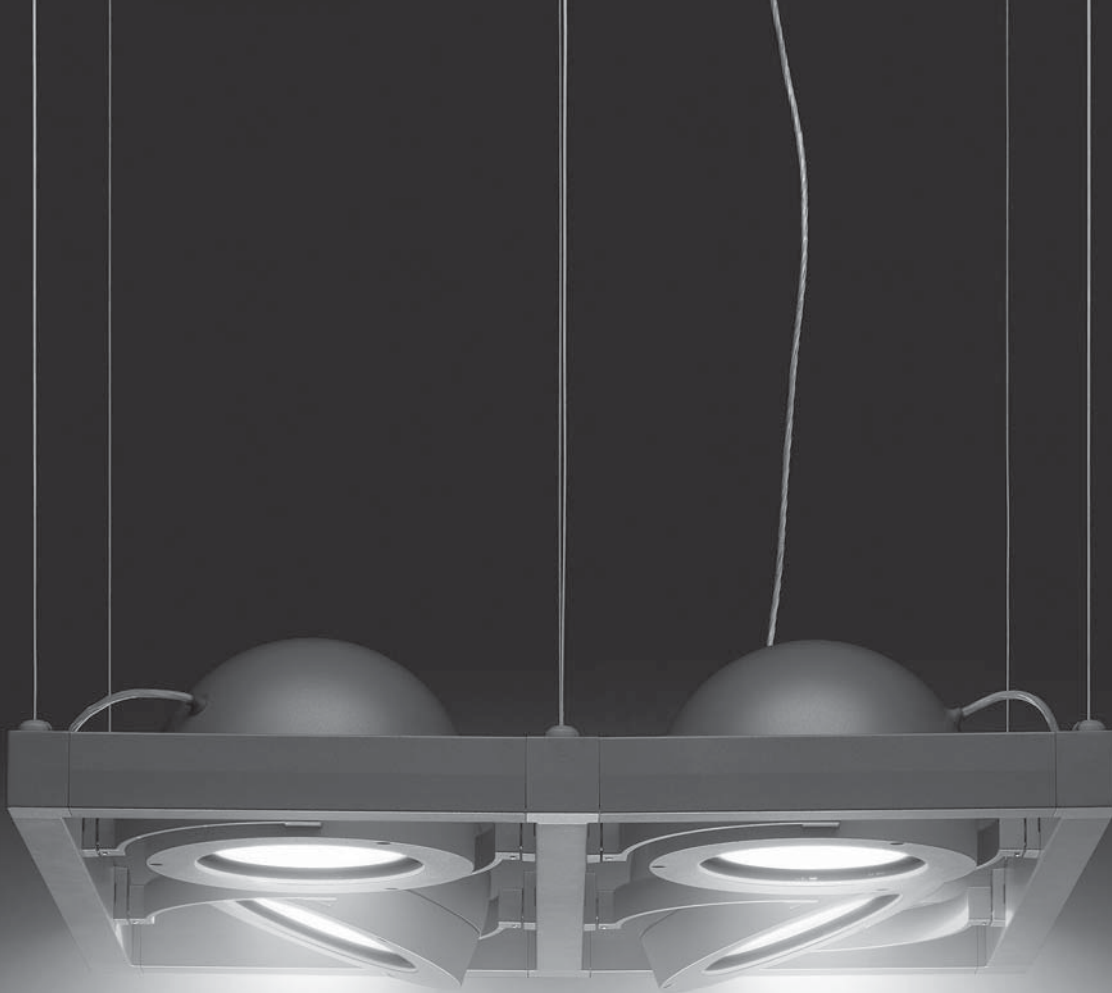
Prisma design

A range of suspended luminaires suitable for indoor and outdoor application with aluminium frame containing two, three or four luminaires. Designed for use with high power compact fluorescent energy saving and metal halide HID lamps. The frame is suspended by steel cables with quick adjustment clamping system, up to maximum 4M length. The high power and efficiency of the Skylum range makes them particularly suitable for high ceiling height application; shopping centres, airport terminals, show rooms and large open plan areas.



All Skylum models can be wired for individual switching of each luminaire inside the frame structure.

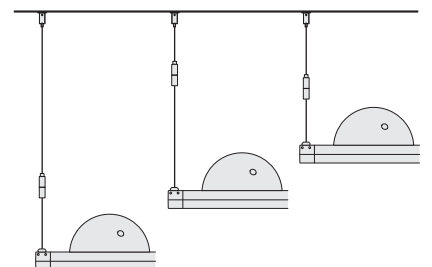
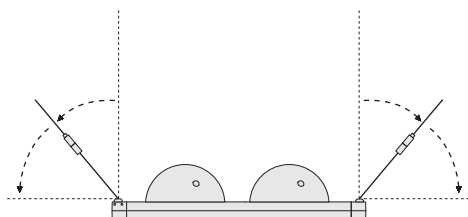
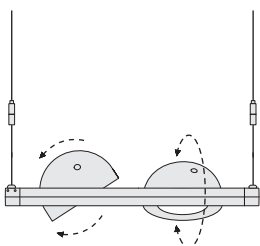




The semi-spherical Skylum fittings can be moved 350° in all directions.

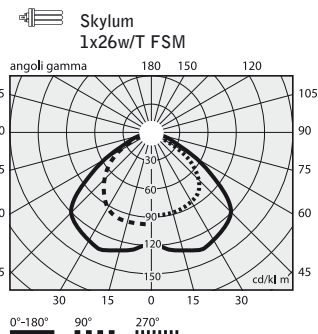
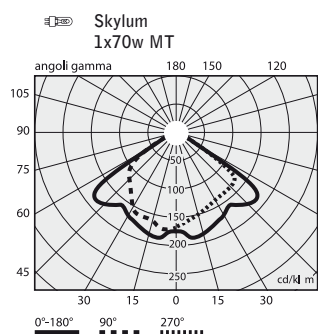
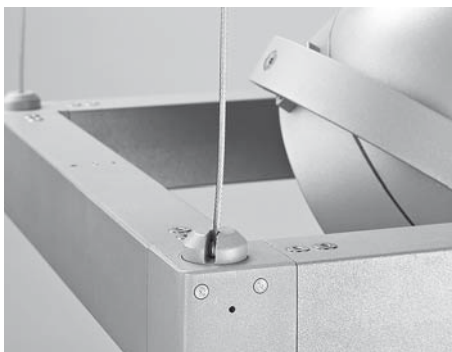
Optional hook fixings to the frame allow the steel cables to be angled to anchor the fixings to the walls if ceiling mount is not possible.

Adjustable cable system allows you to adjust the individual lengths of the two joining cables up to a maximum combined 4M distance between the anchor point and the frame.



SKYLUM

Suspended luminaire.
Body and cover ring in die-cast aluminium painted finish.
Clear toughened safety glass with silk screening.
Anti-ageing silicone gaskets.
Anodized aluminium reflectors.
Adjustable fixing manufactured from die-cast aluminium painted finish.
Extruded aluminium housing frame.
The frame is suspended by 4 x Ø 2,5 mm steel cables 2M length with quick adjustment clamping system.
Available with two luminaires; Skylum 2, three luminaires; Skylum 3 or four luminaires; Skylum 4.
Please contact our department for other options.
Patented barometric compensation system.



The curves refer to the emission of a single luminaire: for a complete figure, consider two emissions for Skylum 2, three for Skylum 3 and four for Skylum 4.

97

CLASS I



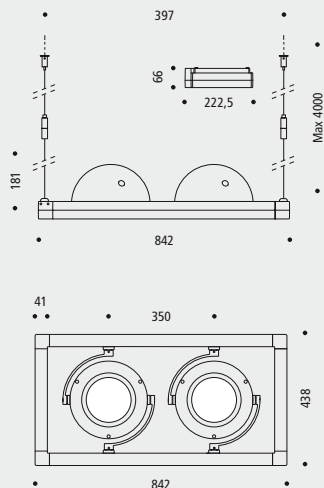
IP 66



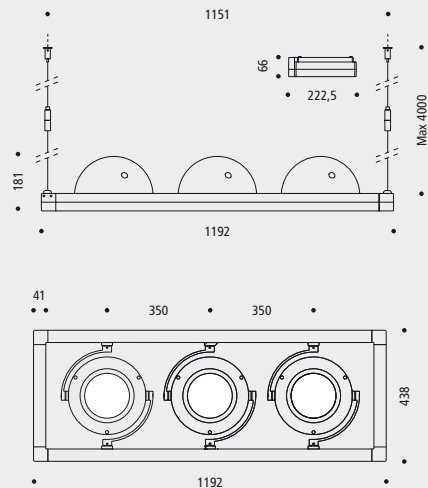
IK 02
0,2J

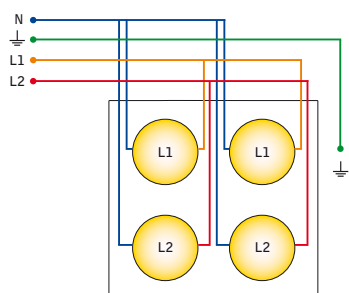
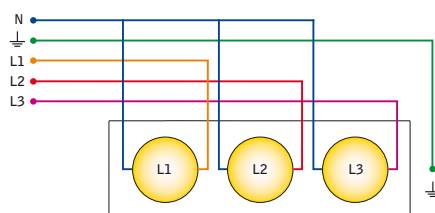
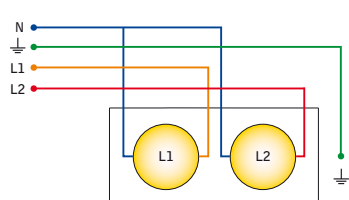
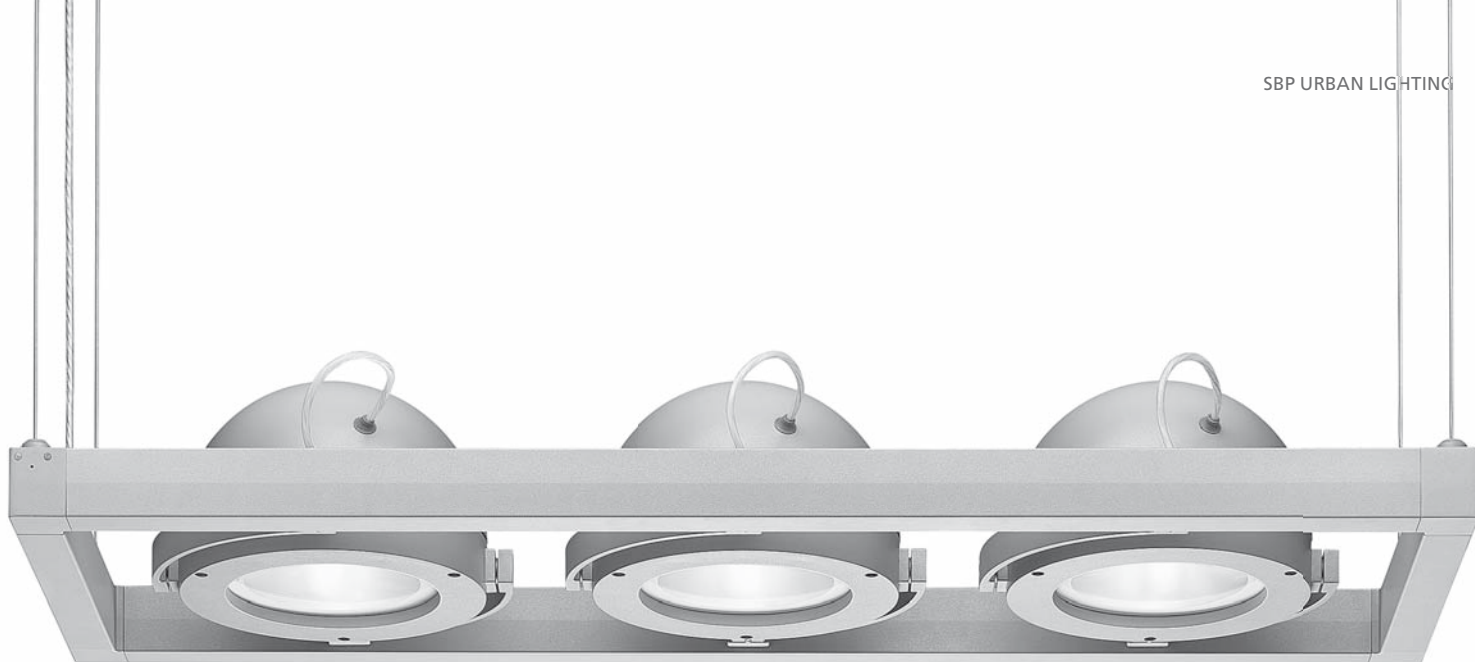


SKYLUM 2
KG
Max 14,3 kg



SKYLUM 3
KG
Max 20,1 kg





SKYLUM 2

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G12	2X70W	MT		C	97	I	CR			05324897	
GX24d-3	2X26W	FSM		C	97	I	CR	B2		05324597	

SKYLUM 3

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G12	3X70W	MT		C	97	I	CR			05324997	
GX24d-3	3X26W	FSM		C	97	I	CR	B2		05324697	

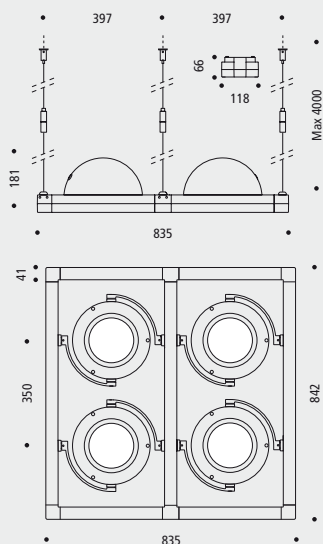
SKYLUM 4

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
G12	4X70W	MT		C	97	I	CR			05325097	
GX24d-3	4X26W	FSM		C	97	I	CR	B2		05324797	

SKYLUM 4

KG

Max 27,3 kg



SKYLUM 2

MT		G12	2X70W	HQI-T
FSM		Gx24d-3	2X26W	DULUX-D/PL-C

SKYLUM 3

MT		G12	3X70W	HQI-T
FSM		Gx24d-3	3X26W	DULUX-D/PL-C

SKYLUM 4

MT		G12	4X70W	HQI-T
FSM		Gx24d-3	4X26W	DULUX-D/PL-C

ESPERIA 01 02 03

design Silvia Paola Pennacchio



ESPERIA 01-02-03 is a range of luminaires manufactured from AISI 316/L stainless steel for HID lamps up to 600 W maximum. The range has been developed for road tunnel and underpass lighting with mounting accessories for cable tray installations.

The ESPERIA has a variety of optics to satisfy the demanding requirements for road and tunnel installations.

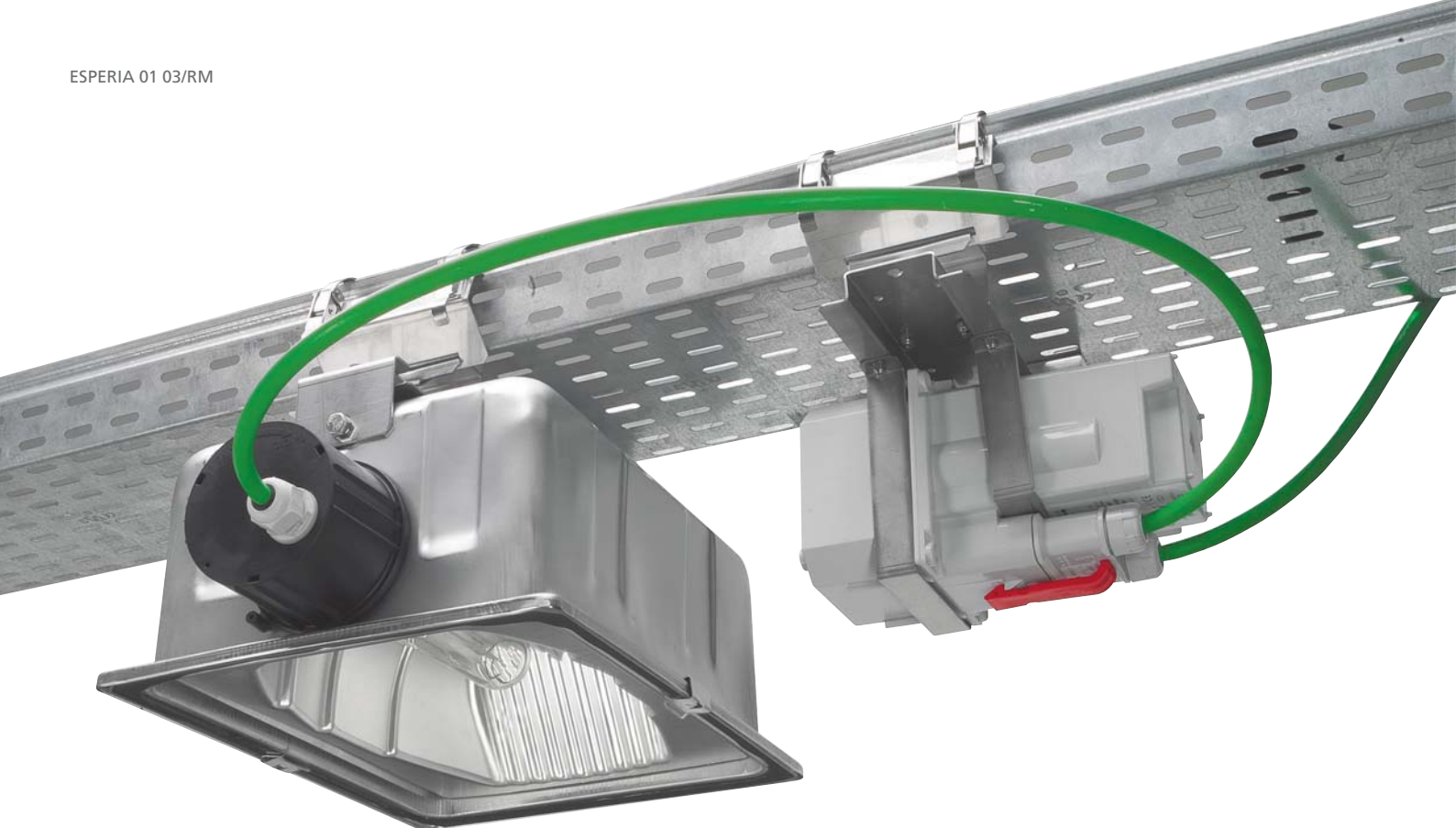
- Symmetrical wide beam (S) or extra wide beam (SSD)
- Asymmetrical with I_{max} 40°, 45° and 60°
- Street lighting

A comprehensive range of cable tray mounting accessories are offered to meet the installers needs, for other options please contact our technical department.

ESPERIA 01-02-03 are available in the following versions:

- ESPERIA /RM luminaires with remote control gear units.
- ESPERIA /BI luminaires with integral control gear.





The Esperia /RM floodlights are especially developed for the illumination of road and highway tunnels, with direct mounting on the conduits. Manufactured in stainless steel AISI 316/L , they are suitable for metal halide lamps max. 600W and distinguish by appropriate remote control gear boxes to be ordered in addition to the luminaire. All available boxes include 1m of cable type FG7-OM1 2x2,5 and the lampholder box, to join to the luminaire by bayonet fastening, allowing a quick substitution of the lamp without tools (very important to restrict maintenance time). In combination with FG7-OM1 2x2,5 cables, the Esperia /RM floodlights can be installed in tunnels and indoor surroundings. By using H07RN-F 2x2,5 cables, available as supplement to order together with the luminaire, the Esperia floodlights can be installed in outdoor surroundings. The Esperia /RM floodlights dispose about a complete range of reflectors. They are available in two versions:

ESPERIA 01/RM – for metal halide lamps max. 250W with reflector for street lighting specially indicated for the illumination of permanent tracts of highway tunnels and tunnels with two-way traffic

ESPERIA 03/RM - for metal halide lamps up to 600W, with the following reflectors

- symmetric wide beam (S)
- symmetric extra-wide beam (SSD)
- asymmetric 45° (°45)
- asymmetric 60° (A60) specially indicated for a reinforcing counter beam illumination in tunnels with one-way traffic.



Body manufactured from AISI 316/L stainless steel.

High performance reflectors in high purity aluminium pre-anodised and polished.

5 mm clear toughened safety glass, secured by stainless steel fixing clips.

Anti-ageing high temperature silicone gasket.

Lampholder; fast release bayonet enclosure manufactured from reinforced self-extinguishing UL94-V0/850° technopolymer, phosphors and halogen free.

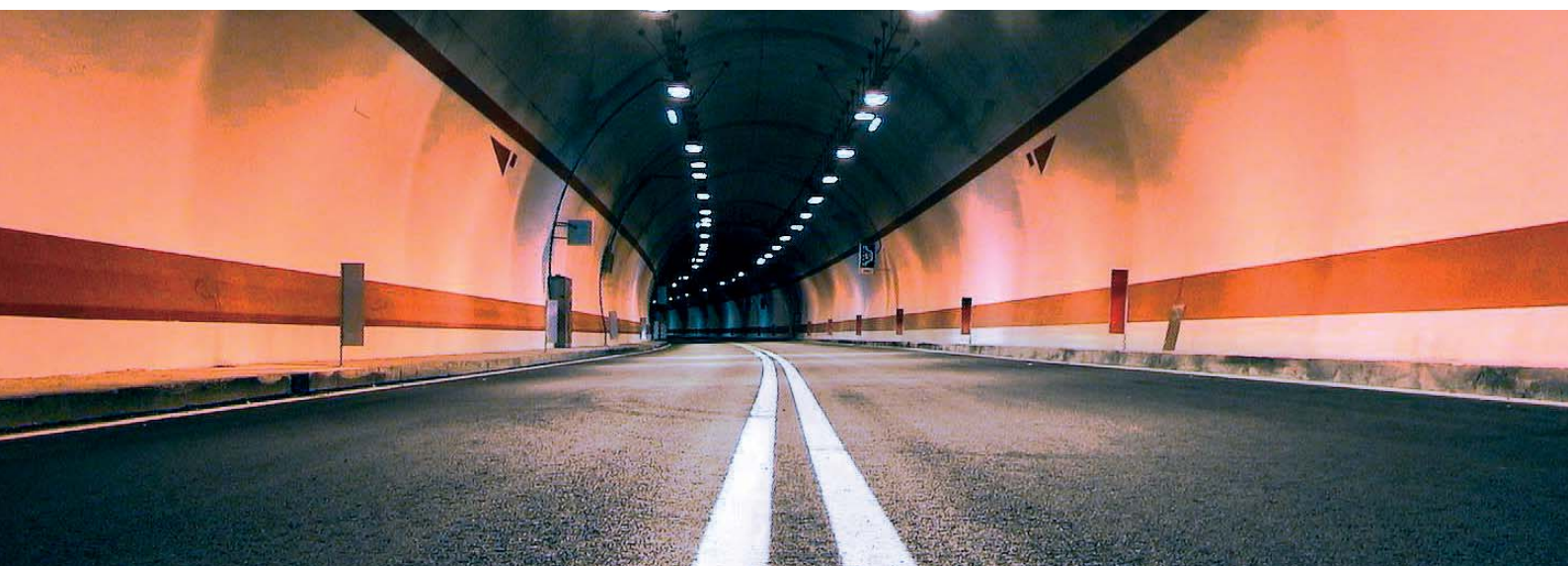
Lampholder / control gear assembly comprises control gear box with 1M FG7-OM1 2 x 2,5 mm cable to lampholder with corresponding socket fixed to body. A single piece (no joints) anti-ageing silicone gasket ensures a maintained IP66 rating. Stainless steel external fixings.

Control gear boxes available in two options: A0543 - IP66, CLASS II, self-extinguishing UL94-V0/850° technopolymer c/w isolating terminal connector, disconnects supply for safety. A0467 - IP65, CLASS II, self-extinguishing technopolymer.

A comprehensive range of cable tray mounting accessories are offered to provide a fast and easy installation.

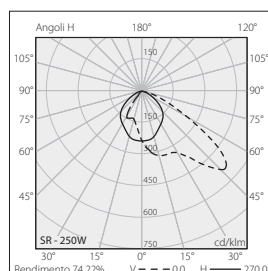


FAST MAINTENANCE
Fast re-lamping bayonet system maintains reflector / lamp chamber integrity. Fast connection of remote control gear for quick and easy maintenance.

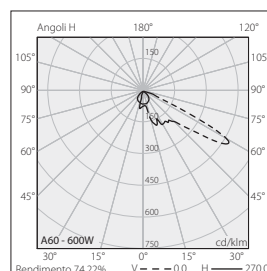
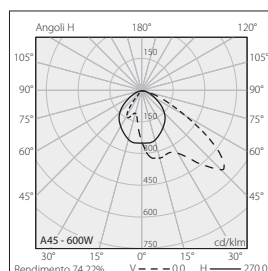


ESPERIA 01/RM
ESPERIA 03/RM

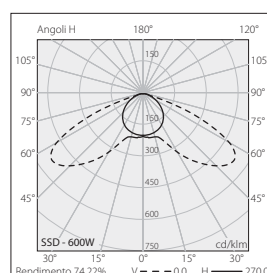
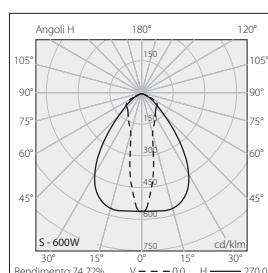
MODELS WITH REMOTE CONTROL GEAR UNIT



Lampholder	W	l/cos	*K	Optic	Colour	Class	Wiring	EEL =	Code	Notes
	Max 600W	ST		A60°	04	II			10104304	
	Max 600W	ST		A45°	04	II			10104504	

**ESPERIA 03/RM S**

Lampholder	W	Ikos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
	Max 600W	ST		S	04	II				01045604	
	Max 600W	ST		SSD	04	II				01045804	



AISI 316L

CLASS II

IP 66

F

A diagram showing a semi-circular gate of radius 1 m submerged in a fluid. The gate is represented by a semi-circle with a vertical diameter. To the right of the gate is a vertical wall, indicated by a line with diagonal hatching. The distance between the gate and the wall is labeled as 1 m.

850°

—

04

ESPERIA 01 RM SR

**IK 8
6J**

KG
Max 3,9 kg

0,122 m²

0,066 m²

ESPERIA 03 RM A\S

IK 9
12J

KG
Max 6,1 kg

0,2 m²

0,084 m²

A square with side length 448. A cable is connected to the left side of the square, extending outwards to the left.

• 188 •



A diagram showing a large square with side length 448. A smaller square is attached to the left side of the large square, with its side length labeled as 540.

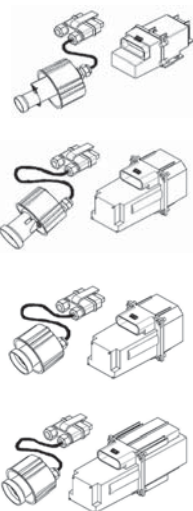
• 188 •



448

CONTROL GEAR

V0-UL94-850°C technopolymer box for use with RM luminaires.



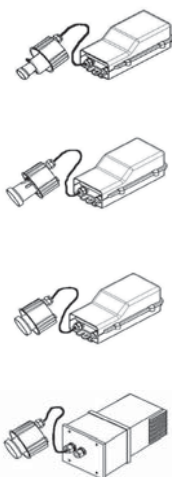
Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
BOX IP 66 A0543/70											
E27	70W	ST				II	CR			• 14134020	

BOX IP 66 A0543/100-150											
E40	100W	ST				II	CR			• 14134120	
E40	150W	ST				II	CR			• 14134220	

BOX IP 66 A0543/252 - 402											
E40	250W	ST				II	CR			• 14134320	
E40	400W	ST				II	CR			• 14134420	NOT FOR ESPERIA 01/RM-SR

BOX IP 66 A0543/600											
E40	600W	ST				II	CR			• 14134520	NOT FOR ESPERIA 01/RM-SR

Made in self-extinguishing polymer



Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEI =	Cosp ≥ 0,9	Code	Notes
BOX IP 65 A0467/70											
E27	70W	ST				II	CR			• 14096320	

BOX IP 65 A0467/100 - 150											
E40	100W	ST				II	CR			• 14096420	
E40	150W	ST				II	CR			• 14096520	

BOX IP 65 A0467/252 - 402											
E40	250W	ST				II	CR			• 14096620	
E40	400W	ST				II	CR			• 14096720	NOT FOR ESPERIA 01/RM-SR

BOX IP 65 A0467/600											
E40	600W	ST				II	CR			• 14096820	NOT FOR ESPERIA 01/RM-SR



ESPERIA 01 03 RM

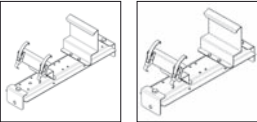
ST  E40 Max 600W NAV-T/SON-T

ESPERIA 01 03/RM

ESPERIA/RM luminaire and gearboxes are suitable for fixing direct to cable trays with the appropriate accessories, which allow a quick and easy installation. Designed for use with FEMI CZ3; height 75 mm, widths 100 mm, 200 mm and 300 mm. Other options available on request.

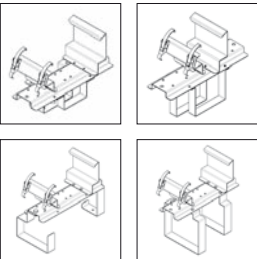
ACCESSORIES

Code	Denomination	Description
14135820	A0552/H07-RNF	Alternative cable for outdoor installation use instead of the standard FG7-OM1 cable.
14135920	A0553	Supplement for additional IP67 cable FG7-OM1 + socket for control gear box.
14136120	A0554	Supplement for additional IP67 cable H07-RNF + socket for control gear box in outdoor installations.



Code	Denomination	Description
14097104	A0468/316	For Esperia 03 RM
14097304	A0469/316	For Esperia 01 RM

AISI 316L stainless steel fast fixing system suitable for installation on luminaires on Femi CZ3 100-200-300x75 mm cable tray. Other options available on request.



Code	Denomination	Description
14134904	A0545/316	For Box A0543/70 - A0543/100 - A0543/150
14135104	A0546/316	For Box A0543/252 - A0543/402 - A0543/600
14097504	A0470/316	For Box A0467/70 - A0467/100 - A0467/150 - A0467/252 - A0467/402
14134704	A0544/316	For Box A0467/600

AISI 316L stainless steel fast fixing system suitable for suspended installation of Box on Femi CZ3 100-200-300x75 mm cable tray. Other options available on request.

ESPERIA 02/BI

LUMINAIRES C/W INTEGRAL CONTROL GEAR.

The Esperia /BI floodlights are developed especially for the illumination of road tunnels and underpasses. The control gear unit is incorporated and therefore to prefer in cases where the illuminating body and the control gear unit have to be a single part.

Floodlights in CLASS II, manufactured in stainless steel AISI 316/L with a compact body height of 140mm, especially designed for installations with limited height. Suitable for metal halide lamps up to 250W .

The Esperia /BI floodlights dispose about a complete range of reflectors:

- symmetric (S)
- symmetric extra-wide beam (SSD)
- asymmetric with I_{max} 40° (A40) and 55°(A55)
- street lighting (SR)

As well Esperia /BI can be fixed directly to the conduits by means of appropriate quick fastenings. Those allow a quick anchorage of the floodlights to the conduits without the need of tools. Available conduit fastenings in stainless steel to use only for conduit type FEMI CZ3 - 75 mm height and 100 mm, 200 mm and 300 mm width.

Fastenings for other conduit types are available on request.



SPECIFICATION:

Body in stainless steel AISI 316/L.

Reflectors in pre-anodized very pure high performance aluminium.

Transparent float safety glass, thermally tempered, 5 mm thick.

Opening without tools, the glass remains fixed to the body by means of hinges.

Hinges and clips for the fixing of the glass in stainless steel AISI 316.

Gaskets in not-aging silicone foam, with high compensation power, guaranteeing a protection degree of IP65.

Automatic disconnect switch which interrupts the power supply by opening the glass, permitting maintenance in absolute safety.

Wiring plate removable without tools by acting on the appropriate screws devices.

External screws in stainless steel.

Conduit fastening devices in stainless steel, available as accessories, for a simple and quick anchorage to the conduits without tools.

ESPERIA 02/BI-S

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	100W	ST		S	04	II	CRF			• 05333104	
E40	150W	ST		S	04	II	CRF			• 05333204	
E40	250W	ST		S	04	II	CRF			• 05333304	

ESPERIA 02/BI-SSD

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	100W	ST		SSD	04	II	CRF			• 05333404	
E40	150W	ST		SSD	04	II	CRF			• 05333504	
E40	250W	ST		SSD	04	II	CRF			• 05333604	

ESPERIA 02/BI-A55

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	100W	ST		A55	04	II	CRF			• 05333704	
E40	150W	ST		A55	04	II	CRF			• 05333804	
E40	250W	ST		A55	04	II	CRF			• 05333904	

ESPERIA 02/BI-A40

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	100W	ST		A40	04	II	CRF			• 05334004	
E40	150W	ST		A40	04	II	CRF			• 05334104	
E40	250W	ST		A40	04	II	CRF			• 05334204	

ESPERIA 02/BI-SR

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
E40	100W	ST		SR	04	II	CRF			• 05334304	
E40	150W	ST		SR	04	II	CRF			• 05334404	
E40	250W	ST		SR	04	II	CRF			• 05334504	

AISI 316L

04

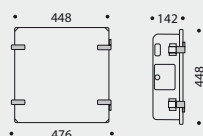
CLASS II



IP 65



ESPERIA 02 BI



ESPERIA 02 BI

ST E40 Max 250W NAV-T/SON-T

ESPERIA

design Silvia Paola Pennacchio



ESPERIA are robust IP65 corrosion resistant, moisture and dust proof luminaires for industrial type applications, suitable for use with T8 and T5 fluorescent lamps to provide high performance efficient lighting. Manufactured in a stainless steel body, with a toughened safety glass or dished clear polycarbonate cover. Suitable for use in chemically aggressive or corrosive atmospheres e.g. road / rail tunnels, chemical and oil production plants, marine / coastal type environments, galvanic treatment areas, livestock, abattoirs and food industries.

Esperia luminaires were designed with the need to make installations and maintenance as fast and easy as possible, particularly considering the harsh environments in which they may be installed.

The Esperia series consists of two models: for T5 and T8 fluorescent bulbs.



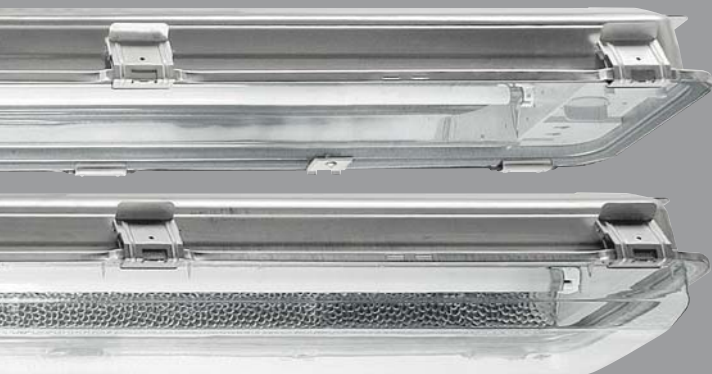
The extremely adapt Esperia range of corrosion resistant luminaires features the following:

- Lamps & Optics: Available in asymmetrical or symmetrical reflectors, suitable for one, two, or three lamp T5 and T8.
- Materials: AISI 304 stainless steel or AISI 316L for more demanding conditions such as tunnels or marine environments where greater corrosion resistance is required.



SPECIALS and ACCESSORIES:

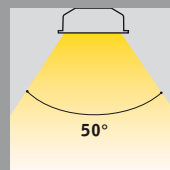
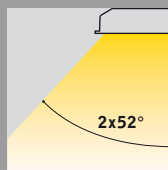
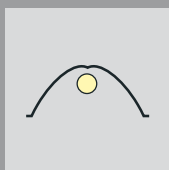
Special versions are available on request; fast connect plug and socket, Marechal plug and socket, adjustable suspension brackets, customised suspension systems, emergency lighting, voltage / frequency options, dimmable ballast and through wiring.



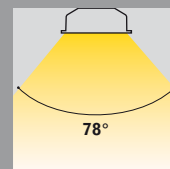
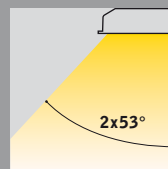
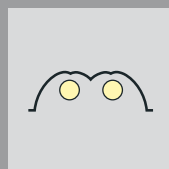
Toughened safety glass cover (V) or polycarbonate (PC). Hinges down for easy maintenance.



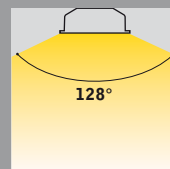
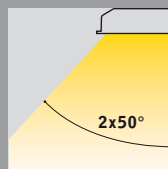
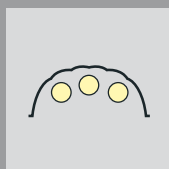
Symmetrical 1 lamp



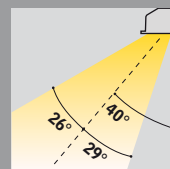
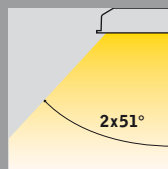
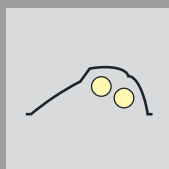
Symmetrical 2 lamps



Symmetrical 3 lamps



Asymmetrical 2 lamps



INSTALLATION:

Ceiling mounting is provided by two stainless steel end brackets. Customised fixing systems are available on request.



**SPECIFICATION:**

Class I (Class II available on request).

Body in AISI 304 or in AISI 316L stainless steel.

High purity anodised specular aluminium reflectors available as symmetrical for single, twin and three lamp versions and asymmetrical for single and twin lamp only.

Toughened safety glass cover (/V) or polycarbonate (/PC). Hinges down for easy maintenance.

Silicone rubber anti-ageing gasket.

Stainless steel hinged spring clips.

PG16 polyamide cable gland IP68 for Ø10-14mm cables.

IP66 anti-vacuum breathing device.

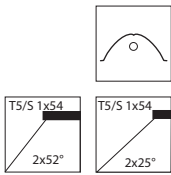
220-240V, 50/60Hz electronic ballasts positioned to allow maximum heat dissipation and longevity in high ambient temperatures. For operations in ambient temperatures -20° to +50°C specific luminaires are recommended. (Please contact our technical department for further information).

**MAINTENANCE:**

The all-in-one reflector gear and lamp holder assembly hinges for maintenance and is easily removed by hand, without the need for tools, by turning the two fasteners through 90°. An isolating terminal block automatically interrupts supply on removal to provide extra safety.

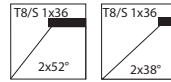
Cover is retained to body by quick release stainless steel fixing clips, and hinges down on stainless steel supports for easy access during maintenance.





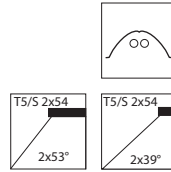
ESPERIA / T5 S 1x.. Symmetrical reflector for single lamp

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G5	35W	FH		S	04	I	ETRC	A2	•	05171204	/V
G5	35W	FH		S	04	I	ETRC	A2	•	05202904	/PC
G5	54W	FQ		S	04	I	ETRC	A2	•	05171704	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05171804	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05203104	/PC



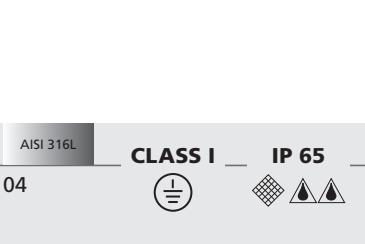
ESPERIA / T8 S 1x..

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G13	36W	FD		S	04	I	ETRC	A2	•	05200504	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05200604	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05207404	/PC



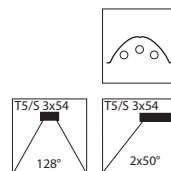
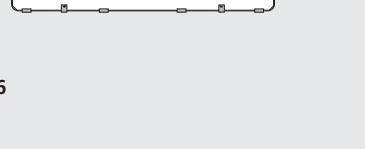
ESPERIA / T5 S 2x.. Symmetrical reflector for twin lamps

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G5	35W	FH		S	04	I	ETRC	A2	•	05171404	/V
G5	35W	FH		S	04	I	ETRC	A2	•	05203204	/PC
G5	54W	FQ		S	04	I	ETRC	A2	•	05171904	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05172004	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05203404	/PC



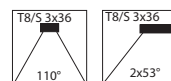
ESPERIA / T8 S 2x..

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G13	36W	FD		S	04	I	ETRC	A2	•	05200704	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05200804	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05207504	/PC



ESPERIA / T5 S 3x.. Symmetrical reflector for twin lamps

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G5	54W	FQ		S	04	I	ETRC	A2	•	05172104	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05172204	/V
G5	80W	FQ		S	04	I	ETRC	A2	•	05203704	/PC



ESPERIA / T8 S 3x..

Lampholder	W	Ilcos	*K	Optic	Colour	Class	Wiring	EEL =	Cosp ≥ 0,9	Code	Notes
G13	36W	FD		S	04	I	ETRC	A2	•	05200904	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05201004	/V
G13	58W	FD		S	04	I	ETRC	A2	•	05207604	/PC

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

/V Toughened safety glass cover.

/PC Cover polycarbonate.

04

PG16
Ø10÷14

H05RN-F 3Gx1,5
3x2,5mm²

OK

OK

NO

CLASS I

IP 65

IK 09

IK 10

F

KG

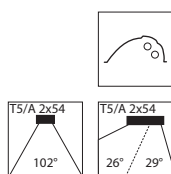
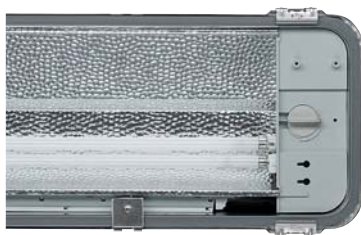
Max 11 kg

260

A

L

	FH	FQ	FD	A	L mm
/ V	1-2-3x28W	1-2-3x54W	1-2-3x36W	95	1415
/ V	1-2-3x35W	1-2-3x49W	1-2-3x58W	95	1715
/ V	-	1-2-3x80W	-	95	1715
/ PC	1-2-3x35W	1-2-3x49W	1-2-3x58W	135	1715
/ PC	-	1-2-3x80W	-	135	1715

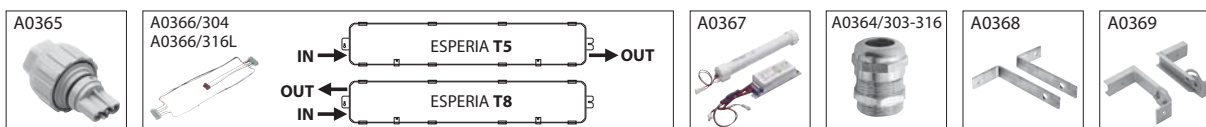
**ESPERIA / TS A 2x..****Asymmetrical reflector for twin lamps**

Lampholder	W	Ilcos	°K	Optic	Colour	Class	Wiring	EEL =	Cosφ ≥0,9	Code	Notes
G5	35W	FH		A	04	I	ETRC	A2	•	05172604	/V
G5	35W	FH		A	04	I	ETRC	A2	•	05204104	/PC
G5	54W	FQ		A	04	I	ETRC	A2	•	05172904	/V
G5	80W	FQ		A	04	I	ETRC	A2	•	05173004	/V
G5	80W	FQ		A	04	I	ETRC	A2	•	05204304	/PC

Complete with electronic ballast non dimmable 220÷240V 50/60Hz.

/V Toughened safety glass cover.

/PC Cover polycarbonate.

ACCESSORIES

Code	Denomination	Description	Notes
14070020	A0365/28-54-36W	Fast fit IP65 plug and socket accessory kit.	
14072720	A0365/35-49-80-58W	Not possible for use in combination with A0366/36 and /58 (T8), through wiring accessory.	
14070120	A0366/304 28-54W	Supplement for factory fitted through wiring complete with internal cable and terminal blocks (AISI 304 stainless steel).	
14070220	A0366/304 35-49-80W	A0366/36 and /58 (T8) not possible for use in combination with A0365 plug and socket accessory.	
14075620	A0366/304 36W		
14075920	A0366/304 58W		
14074220	A0366/316L 28-54W	Supplement for factory fitted through wiring complete with internal cable and terminal blocks (AISI 316 stainless steel).	
14074420	A0366/316L 35-49-80W	A0366/36 and /58 (T8) not possible for use in combination with A0365 plug and socket accessory.	
14075720	A0366/316L 36W		
14076020	A0366/316L 58W		
14070320	A0367/28-54W	Supplement for T5/T8 single and twin lamp emergency version factory fitted max 1hr maintained. Not available for 3 lamp versions.	
14070420	A0367/35-49-80W		
14073020	A0367/36W		
14073120	A0367/58W		!
14069820	A0364/303	AISI 303 stainless steel cable gland for Ø10-14mm cables	
14069920	A0364/316	AISI 316 stainless steel cable gland for Ø10-14mm cables.	
14070720	A0368W	Pair of AISI 304 stainless steel mounting brackets.	
14071020	A0369	Pair of AISI 304 stainless adjustable mounting brackets.	

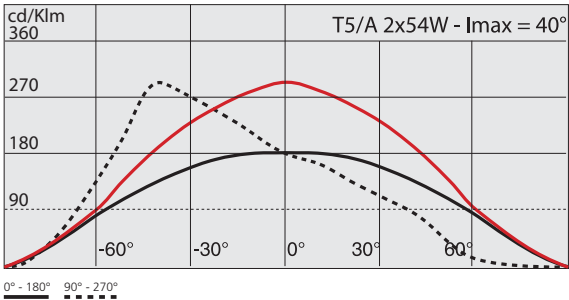
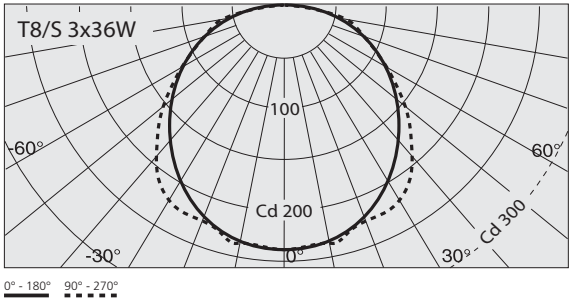
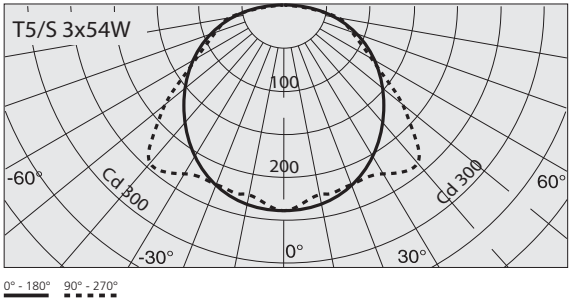
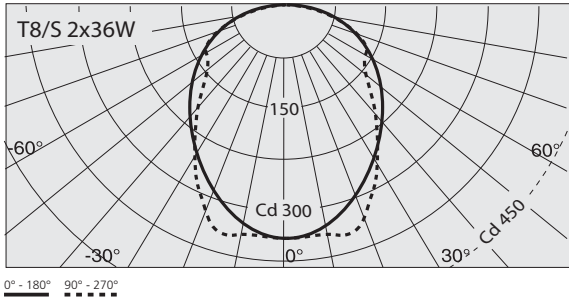
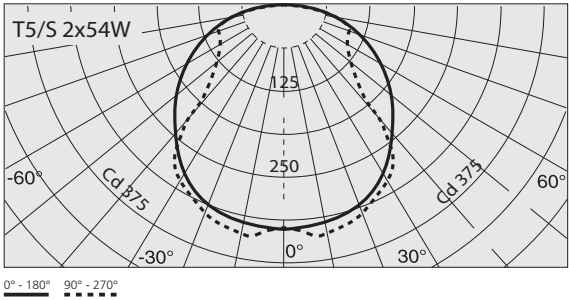
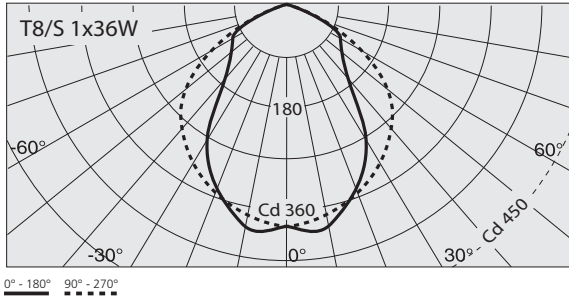
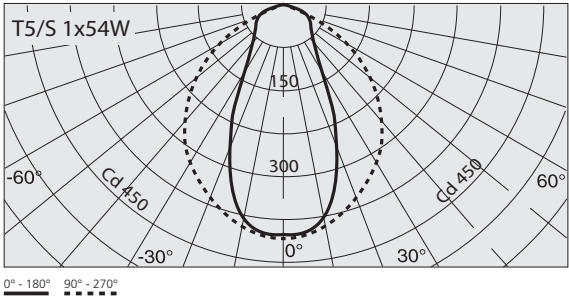
! Accessories not suitable with A0365.

**SPECIALS and ACCESSORIES:**

Special versions are available on request; quick connect plug and socket, Marechal plug and socket, adjustable suspension brackets, customised suspension systems, emergency lighting, voltage / frequency options, dimmable ballast and through wiring.

ESPERIA

FDH		G15	14÷35W	LUMILUX FH/MASTER TL5 HE
FD		G13	36÷58W	LUMILUX/TL-D
FDH		G5	24÷80W	LUMILUX FQ/MASTER TL5 HO





LIST OF AVAILABLE LAMPS

LAMPS		ILCOS				OSRAM	PHILIPS	G.E.	
Compact Fluorescent		18W 	G24d2	FSQ	08086000	DULUX-D 18 W/840	PL-C/2p 18W-840	F18DBX/840	
		26W 	G24q3	FSQ	08006420	DULUX-D/E 26 W/840	PL-C/4p 26W-840	-	
		18W	2G11	FSD	08045000	DULUX-L 18 W/840	PL-L/4p 18W-840	F18BX/840	
		24W	2G11	FSD	08005620	DULUX-L 24W/840			
		36W	2G11	FSD	08095000	DULUX-L 36 W/840	PL-L/4p 36W-840	F36BX/840	
		55W	2G11	FSD	08064000	DULUX-L 55 W/827		F55BX/827	
		42W	Gx24q-4	FSM	08087000	DULUX-T/E 42 W/21-840	PL-T/4p 42W-840	F42QBX/840/4p	
		57W	Gx24q-5	FSM	08004120	DULUX-T/E 57 W/21-840 IN	-	F57QBX/840/4p	
		22W	2Gx13	FC	08008320	FC LUMILUX 22W/840	Circular TL-5 22W/840	-	
		55W	2Gx13	FC	08008420	FC LUMILUX 55W/840	Circular TL-5 55W/840	-	
60W		2Gx13	FC	08008520	-	Circular TL-5 60W/840	-		
High Pressure Sodium		70W	E27	SE	08029000	NAV-E 70W/I	SON 70W/I	LU70/90/D/I/27	
		150W	E40	SE	08033000	NAV-E 150	SON 150W	LU150/100/D/40	
		250W	E40	SE	08035000	NAV-E 250	SON 250W	LU250/D/40	
		150W	E40	SE	08017620	NAV-E 150 SUPER 4Y	MASTER SON PIA PLUS 150W	-	
		250W	E40	SE	08017720	NAV-E 250 SUPER 4Y	MASTER SON PIA PLUS 150W	-	
		400W	E40	SE	08017820	NAV-E 400 SUPER 4Y	MASTER SON PIA PLUS 400W		
		70W 	E27	ST	08026000	NAV-T 70 SUPER	SON-T PLUS 70W	LU70/90/XO/T/27	
		100W	E40	ST	08031000	NAV-T 100 SUPER	SON-T PLUS 100W	LU100/100/XO/T/40	
		150W	E40	ST	08032000 *	NAV-T 150	SON-T 150W	LU150/100/40	
		250W	E40	ST	08034000 *	NAV-T 250	SON-T 250W	LU250/T/40	
		400W	E40	ST	08036000 *	NAV-T 400	SON-T 400W	LU400/T/40	
		150W	E40	ST	08012720	NAV-T 150 SUPER	SON-T PIA PLUS 150	LU150/150/XO/T/40	
		250W	E40	ST	08006020	NAV-T 250 SUPER	SON-T PLUS 250	LU 250/XSO/T/40	
		400W	E40	ST	08006120	NAV-T 400 SUPER	SON-T PLUS 400	LU 400/XO/T/40	
		600W	E40	ST	08078000	NAV-T 600 SUPER	SON-T 600 PLUS	LU 600/HO/T/40	
		1000W	E40	ST	08039000	NAV-T 1000	SON-T 1000	LU 1000/110/T/40	
		70W	RX7s	SD	08042000	NAV-TS 70 SUPER	-	-	
		150W	RX7s	SD	08082000	NAV-TS 150 SUPER	-	-	
			250W	Fc2	SD	08088000	NAV-TS 250	-	-
			400W	Fc2	SD	08089000	NAV-TS 400	-	-
Metal Halide		70W	RX7s	MD	08019000	HQI-TS 70/WDL UVS	MHW-TD 70 UVS	ARC 70/TD/730	
		70W	RX7s	MD	08052000	HQI-TS 70/NDL UVS	MHN-TD 70 UVS	ARC 70/TD/742	
		150W	RX7s	MD	08020000	HQI-TS 150/WDL UVS	MHW-TD 150 UVS	ARC 150/TD/730	
		150W	RX7s	MD	08053000	HQI-TS 150/NDL UVS	MHN-TD 150 UVS	ARC 150/TD/742	
		70W	RX7s	MD	08000820	HCI-TS 70/WDL	CDM-TD 70/830	-	
		70W	RX7s	MD	08004520	HCI-TS 70/NDL	CDM-TD 70/942	-	
		150W	RX7s	MD	08001320	HCI-TS 150/WDL	CDM-TD 150/830	-	
		150W	RX7s	MD	08001420	HCI-TS 150/NDL	CDM-TD 150/942	-	
		20W	PGJ5	MT	08007620		CDM-Tm 20/830		
		20W	G8,5	MT	08005920	HCI-TC 20W/WDL	-	CMH 20/TC/U/830	
		20W	GU6,5	MT	08012420	HCI-TF 20/830 WDL PB			
		35W	G12	MT	08005420	HCI-T 35WDL	CDM-T 35/830	-	
		70W	G12	MT	08055000	HQI-T 70/WDL		ARC 70/T/U/730	
		70W	G12	MT	08079000	HQI-T 70/NDL	-	ARC 70/T/U/842	
		150W	G12	MT	08056000	HQI-T 150/WDL	-	ARC 150/T/U/830	
		150W	G12	MT	08080000	HQI-T 150/NDL	-	ARC 150/T/U/840	
		70W	G12	MT	08004220	HCI-T 70/WDL	-	-	

LAMPS OFFERED ARE BASED UPON OUR SELECTED BRAND AND STOCK AVAILABILITY.

* While supplies last (EUP 2005/32/CE).

						OSRAM	PHILIPS	G.E.
Metal Halide		70W	G12	MT	08001120	HCI-T 70/NDL	CDM-T 70/830	-
		150W	G12	MT	08004420	HCI-T 150/WDL	CDM-T 70/942	-
		150W	G12	MT	08004320	HCI-T 150/NDL	CDM-T 150/830	-
		250W	Fc2	MD	08001520	HQI-TS 250/WDL	CDM-T 150/942	-
		250W	Fc2	MD	08074000	HQI-TS 250/NDL	-	ARC 250/TD/840
		400W	Fc2	MD	08090000	HQI-TS 400/NDL	MHN-TD 250	-
		70W	E27	ME	08005520	HQI-E 70W/WDL	-	-
		100W	E27	ME	08043000	HQI-E 100/WDL	-	-
		150W	E27	ME	08002520	HQI-E 150W/NDL	-	-
		150W	E27	ME	08005720	HQI-E 150W/WDL	-	-
		250W	E40	ME	08024000	HQI-E 250/D	-	-
		250W	E40 	ME	08060000	-	-	-
		400W	E40	ME	08065000	HQI-E 400/D	HPI-BU PLUS 250	-
		400W	E40	ME	08066000	-	-	-
		400W	E40	ME	08054000	-	HPI-BU PLUS 400	-
			70W	E27	MT	08007520	HCI-TT 70W/WDL	HPI-BUS PLUS 400
	150W		E40	MT	08001220	HCI-TT 150/WDL	CDO/TT 70W/828	-
	250W		E40	MT	08022000	HQI-T 250/D	CDO-TT 150/830	-
	250W		E40	MT	08058000	-	-	-
	400W		E40	MT	08023000	HQI-T 400-BT/D	● HPI-T Plus 250	-
	400W		E40	MT	08059000	-	-	-
	1000W		E40 	MT	08038000	HQI-T 1000/D	● HPI-T Plus 400	SPL 1000/T/H/960
	1000W		E40	MT	08050000	-	-	-
		2000W/230V	E40	MT	08057000	-	HPI-T 1000	-
		2000W/400V	E40	MT	08040000	HQI-T 2000/D/I	HPI-T 2000	SPL 2000/I/T/H/960
			1000W/230V		MN	08000000	-	-
	2000W/400V			MN	08091000	-	MHN-LA 1000	-
	1000W/230V		MN	08001620	HQI-TS 1000/D/S	MHN-LA 2000	-	
	2000W/400V		MN	08001720	HQI-TS 2000/D/S	-	-	
	2000W/400V		MN	08010620	HQI-TS 2000/N/L	-	-	

Lamp with integral ignitor.

● PHILIPS HPI-BU PLUS lamps operate on H.P.S. control gear (250W/25.500 lumens and 400W/42.500 lumens) and on M.H./M.V. control gear (250W/18.000 lumens and 400W/32.500 lumens).

PRODUCTS

Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.
01003102	65	04023094	81	05127311	71	05200504	256	05258696	179	05278096	176	05305394	61
01003202	65	04023194	81	05127411	71	05200604	256	05258797	179	05278197	177	05305496	61
01019294	43	04023294	81	05150281	112	05200704	256	05258896	179	05278296	177	05305581	61
01019394	43	04023881	48	05150381	112	05200804	256	05259281	140	05278397	177	05305694	61
01020494	43	04023994	48	05150681	112	05200904	256	05259396	140	05278496	177	05305796	61
01020894	43	04024096	48	05151404	112	05201004	256	05259581	140	05278597	177	05306596	234
01021094	43	04025094	81	05151504	112	05202904	256	05259696	140	05278696	177	05306696	234
01021194	45	04025181	48	05151804	112	05203104	256	05260781	140	05278797	177	05306796	234
01021394	45	04025294	48	05152081	112	05203204	256	05260896	140	05278896	177	05306896	234
01028681	43	04025396	48	05152181	112	05203404	256	05261096	157	05278997	177	05306996	234
01028781	43	04025481	50	05152481	112	05203704	256	05261296	157	05279096	177	05307096	234
01028881	43	04025594	50	05153204	112	05204104	257	05261596	157	05283896	135	05307196	234
01028981	43	04025696	50	05153304	112	05204304	257	05261796	157	05283996	135	05307296	234
01029181	43	04026081	49	05153604	112	05207404	256	05261996	157	05284096	135	05307796	233
01029281	45	04026194	49	05158490	24	05207504	256	05262296	157	05284196	135	05307896	233
01029481	45	04026296	49	05158590	24	05207604	256	05262496	210	05284296	135	05307996	14
01032794	58	04026394	91	05158890	24	05210896	112	05262596	210	05284396	135	05308096	14
01032894	58	04026494	91	05160990	24	05210996	112	05262696	210	05284496	135	05308196	14
01032994	58	04027194	90	05161090	24	05211296	112	05262796	210	05284596	135	05308296	14
01033081	58	04027294	90	05161190	24	05211396	112	05262896	210	05284696	135	05308396	14
01033181	58	04031894	90	05161290	24	05211496	112	05262996	210	05284796	135	05308496	14
01033281	58	04031994	90	05161390	24	05211796	112	05263096	210	05284896	135	05308596	14
01035996	118	04032394	91	05161490	24	05212811	71	05263196	210	05284996	135	05308696	14
01036081	118	04032694	90	05161790	24	05213996	235	05263296	210	05285096	135	05308796	14
01036127	118	04032794	90	05161890	24	05214096	235	05263396	210	05285196	135	05308896	14
01044304	248	04032894	90	05161990	24	05214196	235	05264096	210	05285296	135	05308996	14
01044404	248	04032994	90	05162104	24	05214496	234	05264196	210	05285396	135	05310196	14
01045404	248	04033094	90	05162304	24	05214596	234	05264296	210	05287197	175	05310296	14
01045604	248	04033194	90	05162404	24	05214696	234	05264396	210	05287296	175	05310396	14
01045804	248	04033294	90	05162504	24	05214796	234	05264496	210	05287397	175	05310496	15
01150013	106	04033394	91	05162604	24	05214896	234	05264596	210	05287496	175	05310596	15
01208013	106	04033494	91	05162794	57	05214996	234	05264896	164	05287497	175	05310696	15
01941998	65	04033594	91	05162894	57	05215096	234	05265596	164	05287596	175	05310796	15
01958018	64	04033694	91	05162994	57	05215196	234	05266096	212	05287697	175	05311084	14
01959018	64	04033794	91	05163094	57	05215296	234	05266196	212	05287796	175	05310904	14
01961018	64	04033894	91	05163194	57	05215396	234	05266296	212	05290081	140	05311104	14
01962018	64	04033994	91	05163294	57	05215496	234	05266396	212	05290196	140	05311104	14
01979998	65	04034094	90	05163394	57	05216196	234	05266496	212	05292004	10	05311204	14
01980998	65	04034194	90	05163494	57	05236396	233	05266596	212	05292204	10	05311304	14
01981998	65	04034294	90	05163594	57	05236496	233	05266696	212	05292404	10	05311404	14
01986013	106	04034694	90	05163781	57	05237496	235	05266796	212	05292604	10	05311504	14
01987013	106	04035094	92	05163881	57	05237596	235	05266896	212	05292896	191	05311604	14
03003585	65	04035194	92	05163981	57	05237696	235	05266996	212	05292996	191	05311704	14
03003696	118	04035294	92	05164081	57	05237796	235	05267096	212	05293096	191	05311804	14
03003781	118	04035394	92	05164181	57	05238096	10	05267196	212	05293196	191	05313004	14
03003827	118	04035494	92	05164281	57	05238296	10	05267296	212	05293296	191	05313104	14
04000394	100	04035594	92	05164381	57	05238696	10	05267396	212	05293396	191	05313204	14
04000494	100	04035694	92	05165390	24	05238896	10	05267496	212	05293496	191	05313304	15
04000594	100	04035794	92	05165490	24	05253997	175	05267596	212	05293596	191	05313404	15
04000694	100	04035894	92	05165504	24	05254096	175	05267696	212	05293696	191	05313504	15
04000994	100	04035994	92	05168694	57	05254197	175	05267796	212	05293796	191	05313604	15
04001094	100	04036094	92	05168794	57	05254296	175	05268196	212	05293896	192	05317796	10
04002394	90	04036194	92	05168894	57	05254397	175	05268296	212	05293996	192	05317804	10
04002494	90	04036294	92	05168994	57	05254496	175	05268396	212	05294096	192	05317996	10
04002594	90	04036394	92	05169094	57	05254597	175	05268496	212	05294196	192	05318004	10
04002694	91	04036494	92	05169194	57	05254696	175	05268596	191	05294296	192	05318196	234
04002794	91	04036594	92	05169281	57	05254797	175	05268696	191	05294396	192	05318296	234
04002894	91	05063590	30	05169381	57	05254896	175	05268796	191	05294496	192	05318396	234
04002994	91	05063790	30	05169481	57	05254997	175	05268896	191	05294596	192	05318496	234
04003094	91	05063890	30	05169581	57	05255096	175	05268996	191	05294696	192	05318596	234
04003194	91	05066090	30	05171204	256	05255197	176	05269096	191	05294796	192	05318696	234
04003894	90	05066190	30	05171404	256	05255296	176	05269196	191	05294896	193	05318796	234
04004094	91	05066290	30	05171704	256	05255397	176	05269296	191	05295696	234	05318896	234
04008394	100	05066490	30	05171804	256	05255496	176	05269396	192	05295796	234	05318996	234
04008494	100	05066590	30	05171904	256	05255597	176	05269496	192	05297781	61	05319096	234
04010094	43	05068590	30	05172004	256	05255696	176	05269596	192	05297894	61	05319196	233
04011994	91	05068790	30	05172104	256	05255797	177	05269896	192	05297996	61	05319396	233
04012094	43	05068890	30	05172204	256	05255896	177	05269996	192	05298081	61	05319496	233
04012194	43	05069090	30	05172604	257	05255997	177	05270096	192	05298194	61	05319596	233
04012394	45	05096694	39	05172904	257	05256096	177	05270396	193	05298296	61	05319696	233
04017481	43	05096894	39	05173004	257	05256197	177	05272987	149	05299281	61	05319796	233
04017581	43	05097004	39	05191996	118	05256296	177	05273081	149	05299394	61	05321096	233
04017681	43	05097204	39	05192081	118	05256397	177	05273196	149	05299496	61	05321196	233
04017881	45	05097311	71	05192104	118	05256496	177	05273887	149	05299581	61	05321296	233
04018994	60	05097411	71	05192596	118	05256597	177	05273981	149	05299694	61	05321396	233
04019081	60	05097511	71	05192681	118	05256696	177	05274096	149	05299796	61	05321496	233
04019694	90	05097611	71	05192704	118	05256797	178	05275696	191	05300781	61	05321596	233
04019794	90	05097711	71	05192896	118	05256896	178	05275796	191	05300894	61	05321696	235
04019894	90	05097811	71	05192981	118	05256997	178	05276397	175	05300996	61	05321796	235
04019994	90	05097911	71	05193004	118	05257096	178	05276496	175	05301081	61	05321896	235
04021594	81	05098011	71	05193196	118	05257197	178	05276597	175	05301194	61	05321996	235
04021694	81	05098111	71	05193281	118	05257296	178	05276696	175	05301296			

LUMINAIRE CODES IN ASCENDING ORDER INDICATING CATALOGUE PAGE NUMBER.

PRODUCTS

Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.
05323696	235	05342004	17	06028196	232	06042296	192	06057896	232	08019000	260
05323796	235	05342604	16	06028296	232	06042396	192	06057996	232	08020000	260
05323896	235	05342704	16	06028381	128	06042496	192	07023996	13	08022000	261
05323996	235	05342804	16	06028496	128	06042596	135	07024096	13	08023000	261
05324096	193	05342904	17	06028504	128	06042696	135	07024196	13	08024000	261
05324296	193	05343004	17	06028681	128	06042796	221	07024896	157	08026000	260
05324496	193	05343104	16	06028796	128	06042896	221	07024996	157	08029000	260
05324597	243	05343304	16	06028804	128	06042996	221	07025096	164	08031000	260
05324697	243	05343404	17	06028996	235	06042996	221	07025196	164	08032000	260
05324797	243	05343504	17	06029096	235	06043096	221	07025287	148	08033000	260
05324897	243	05346196	12	06031996	190	06043296	221	07025381	148	08034000	260
05324997	243	05346296	12	06032096	190	06043396	221	07025496	148	08035000	260
05325097	243	05346304	12	06032196	190	06043496	221	07025587	148	08036000	260
05325496	177	05346404	12	06032296	190	06043596	221	07025681	148	08038000	261
05325597	177	05346596	12	06032397	174	06043696	221	07025796	148	08039000	260
05325896	177	05346604	12	06032496	174	06043796	221	07025887	148	08040000	261
05325997	177	05348097	179	06032597	174	06043896	221	07025981	148	08042000	260
05326296	177	05348196	179	06032696	174	06043996	221	07026096	148	08043000	261
05326397	177	05365397	175	06032781	128	06044096	221	07027187	149	08045000	260
05326496	177	05365496	175	06032881	128	06044196	221	07027281	149	08050000	261
05326597	177	05365597	175	06032996	128	06044296	221	07027496	149	08053000	260
05326896	177	05365696	175	06033096	128	06044396	176	07027787	149	08055000	260
05326997	177	05365796	191	06033104	128	06044497	176	07027881	149	08057000	260
05327296	177	05365896	191	06033204	128	06044596	176	07028096	149	08059000	260
05327397	177	06009994	43	06033396	13	06044697	176	07034596	13	08064000	260
05327496	193	06010081	43	06033496	13	06044796	176	07034696	13	08065000	261
05327596	193	06013011	70	06033596	13	06044897	176	07034796	13	08066000	261
05327696	193	06013211	70	06033696	13	06044996	176	07037096	19	08074000	261
05327896	193	06013411	70	06033796	13	06045097	176	07037196	19	08078000	260
05327996	193	06013594	38	06033896	13	06045196	176	07037296	19	08079000	260
05328096	193	06013794	38	06033996	19	06045297	176	07037396	19	08080000	260
05328296	177	06013804	38	06034096	19	06045396	176	07037496	19	08082000	260
05328397	177	06014004	38	06034196	19	06045497	176	07037596	19	08086000	260
05328496	177	06015296	8	06034296	19	06045596	176	07037696	178	08087000	260
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05328797	177	06015896	13	06035196	232	06045897	176	07037997	178	08090000	261
05329096	177	06016096	13	06035296	232	06045996	176	07038097	178	08091000	261
05329197	177	06017396	8	06035396	232	06046097	176	07038197	178	08095000	260
05329296	177	06017496	8	06035496	232	06046196	176	07038696	178		
05329397	177	06017704	8	06035596	235	06046297	176	07038797	178		
05329496	177	06017804	8	06035696	235	06046396	176	07038896	178		
05329597	177	06018104	8	06036596	9	06046497	176	07038997	178		
05333104	251	06018204	8	06036696	9	06046596	176	07039096	178		
05333204	251	06021296	13	06036796	9	06046697	176	07039197	178		
05333304	251	06021396	13	06036896	9	06046796	176	07039296	13		
05333404	251	06021496	13	06036904	9	06046897	176	07039396	13		
05333504	251	06022396	8	06037004	9	06046996	176	07039496	13		
05333604	251	06022496	8	06037104	9	06047097	176	07040596	19		
05333704	251	06022596	8	06037204	9	06047196	176	07040696	19		
05333804	251	06022604	8	06037396	18	06047297	176	07040796	19		
05333904	251	06022704	8	06037496	18	06047396	176	07040896	19		
05334004	251	06022804	8	06037596	18	06047497	176	07040996	19		
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05334504	251	06023796	190	06038004	18	06049296	223	07041697	178		
05336996	16	06023896	190	06038296	135	06049396	223	07041796	178		
05337096	16	06023996	190	06038396	135	06049496	223	07041897	178		
05337196	16	06024096	190	06038496	135	06049596	223	07042280	64		
05337296	16	06024196	190	06038596	135	06049696	223	08000000	261		
05337396	16	06024296	190	06038881	128	06049796	223	08000820	260		
05337496	16	06024396	190	06038981	128	06049896	223	08001120	261		
05337504	16	06024496	190	06039096	128	06049996	223	08001220	261		
05337604	16	06024597	174	06039196	128	06050096	223	08001320	260		
05337704	16	06024696	174	06039204	128	06050196	223	08001420	260		
05337804	16	06024797	174	06039304	128	06050296	223	08001520	261		
05338004	16	06024896	174	06039496	174	06050396	223	08001620	261		
05338196	16	06024997	174	06039597	174	06050496	223	08001720	261		
05338296	16	06025096	174	06039696	174	06050596	223	08002520	261		
05338396	16	06025197	174	06039797	174	06050696	223	08004120	260		
05338496	17	06025296	174	06039896	190	06050796	223	08004220	260		
05338596	17	06025397	174	06039996	190	06055696	232	08004320	261		
05338696	16	06025496	174	06040096	232	06055796	232	08004420	261		
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05338996	17	06025696	174	06040296	232	06055996	232	08005420	260		
05339096	17	06025797	174	06040396	232	06056096	232	08005520	261		
05339696	16	06025896	174	06040496	235	06056196	232	08005620	260		
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05340396	16	06026496	174	06041196	192	06056796	232	08007520	261		
05340496	17	06026597	174	06041296	192	06056896	232	08007620	260		
05340596	17	06026696	174	06041396	192	06056996	232	08008320	260		
05341104	16	06026797	174	06041496	192	06057096	232	08008420	260		
05341204	16	06026896	174	06041596	192	06057196	232	08008520	260		
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05341404	17	06027096	174	06041796	192	06057396	232	08012720	260		
05341504	17	06027197	174	06041896	192	06057496	232	08017620	260		
05341604	16	06027296	174	06041996	192	06057596	232	08017720	260		
05341804	16	06027996	232	06042096	192	06057696	232	08017820	260		
05341904	17	06028096	232	06042196	192	06057796	232				

ACCESSORIES

Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.	Code	Pag.
14000799	65	14058701	100	14078520	238	14100696	183	14112781	150	14128196	205	14216003	100
14002289	64	14058820	25	14078620	221	14100696	196	14112896	150	14128296	205	14224013	107
14002384	113	14064994	57	14078620	223	14100797	183	14112981	150	14128396	205	14260003	82
14011320	31	14064994	59	14078620	238	14100896	183	14113096	150	14128496	205	14260003	90
14013220	100	14064994	60	14081902	238	14100981	141	14113181	150	14128596	205	14261013	107
14013320	82	14064994	61	14082096	238	14101096	141	14113296	150	14128696	205	14274013	107
14013320	90	14065081	57	14083120	129	14101281	141	14113381	150	14128796	205	14359993	100
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14013720	93	14065112	59	14088796	238	14101996	141	14113881	151	14129296	205	14412998	65
14014394	82	14065112	60	14090202	82	14102181	141	14113996	151	14129396	205	14417998	65
14014394	91	14065112	61	14090394	82	14102296	141	14114081	151	14129496	205	14421018	64
14014420	82	14065220	57	14090494	82	14102481	141	14114196	151	1412997	183	14422018	64
14014420	91	14065220	59	14090594	82	14102596	141	14114281	151	14133096	183	14422018	65
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14015520	38	14065220	61	14090720	12	14102896	141	14114481	151	14133696	194	14451998	65
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NOTES

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