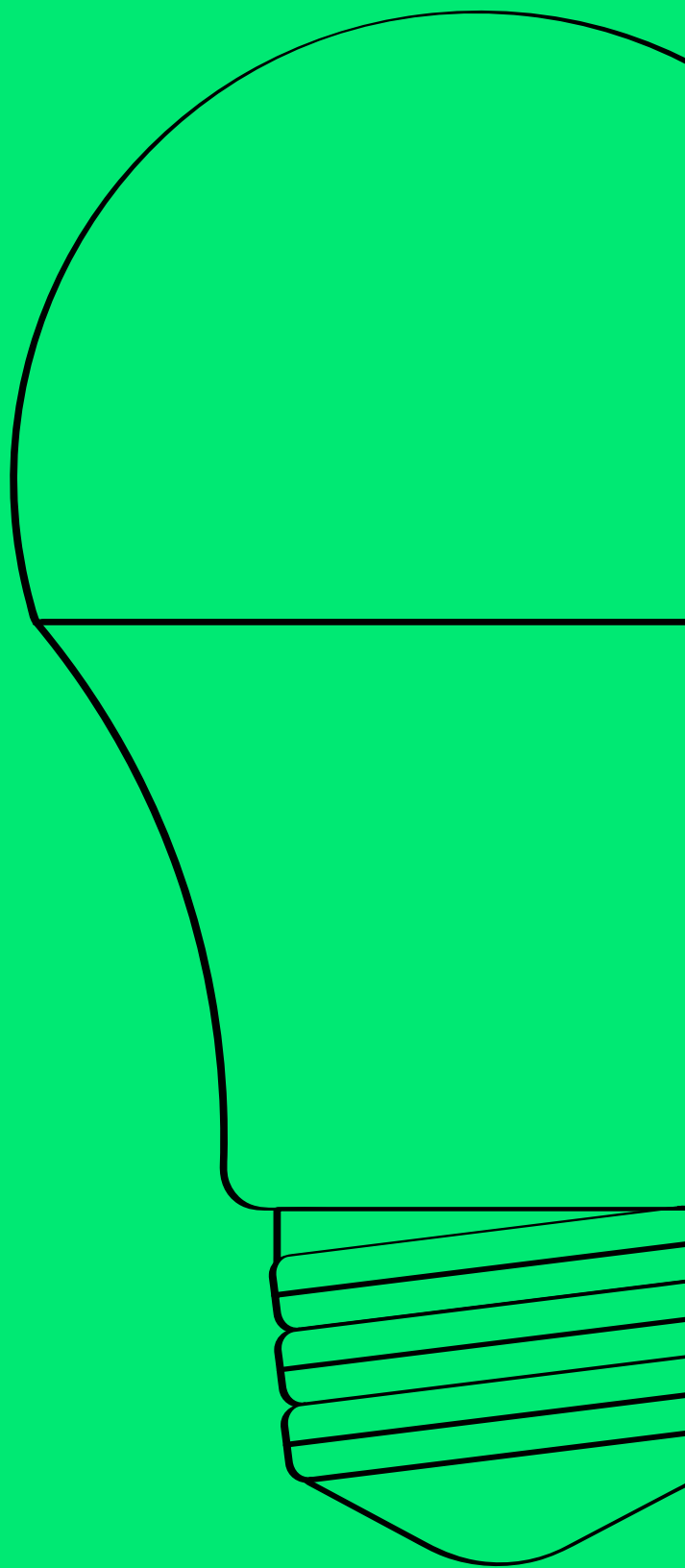


BELENUS
BY ISSOP TECHNOLOGY

HEALTHY,
EFFICIENT AND
QUALITY LIGHTING

WE ARE
THE PLAN B



ISSOP CERTIFICATES

Certificado

Normativa de aplicación **ISO 9001:2015**

Nº registro certificado **0.04.22023**

Titular del certificado: **Oep Electrics World Corporation S.L.**
C/ Montseny, 3-11 C-5
08329 Teia
España

Ámbito de aplicación: **Diseño, Gestión de la producción y comercialización de luminarias LED para interior y exterior sin Obsolescencia Programada.**

Mediante una auditoría se verificó el cumplimiento de los requisitos recogidos en la norma ISO 9001:2015.

Validez: **Este certificado es válido desde 2022-04-28 hasta 2025-04-27. Primera auditoría de certificación 2022**

2022-05-09


TÜV Rheinland Ibérica Inspection
Certification & Testing S.A.
Garrotxa, 10-12 - E-08820 Espinós de
Llobregat

www.tuv.com Precisely Right.

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **0.04.22023**

Certificate Holder: **Oep Electrics World Corporation S.L.**
C/ Montseny, 3-11 C-5
08329 Teia
Spain

Scope: **Design, production management and marketing of LED luminaires for indoors and outdoors without programmed obsolescence.**

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: **The certificates valid from 2022-04-28 until 2025-04-27. First certification 2022**

2022-05-09


TUV Rheinland Ibérica Inspection
Certification & Testing S.A.
Garrotxa, 10-12 - E-08820 Espinós de
Llobregat

www.tuv.com Precisely Right.

CERTIFICADO ISSOP 2016/2022

INNOVACIÓN SOSTENIBLE
SIN OBSOLESCENCIA PROGRAMADA

ACTA DE COMPROMISO

Con esta firma asumimos la responsabilidad de mantener los valores de sostenibilidad, respeto por el medio ambiente y por las personas.

De acuerdo con los objetivos de Feniss, nos comprometemos a mantener nuestra empresa libre de obsolescencia programada, con innovación sostenible, así como a trabajar activamente y hacer públicas las acciones concretas que configuran nuestra contribución a la sociedad.

Barcelona, **28 de Enero de 2016**

Nombre de la organización **Oep Electrics World Corporation S.L.**

Firma Organización: 

Firma ISSOP: 



BULB E27

BE - A6009

Thanks to the form-fitting shape of a conventional incandescent lamp and a warm light colour of 3,000 K and a neutral white light colour of 6,500 K, this LED lamp is particularly suitable for use in living rooms, corridors, bedrooms and offices and replaces a conventional incandescent lamp of up to 100 W. The light source impresses with its high efficiency and at the same time very low energy consumption as well as a very long service life of up to 30,000 hours.

Other features include mercury-free production, minimum start-up time (< 1 second - up to 100% brightness) as well as low heat emission.



BE - A6009

BE - A6012

| | | | |
|-----------------------------|------------------------------|-------------------------------|-----------------------------------|
| Power: 9W | Power: 12W | A60 Bulb LED | Lifetime: 30.000 hours (15 years) |
| Lumens: 850 | Lumens: 1.250 | Color: Natural and warm white | Guarantee: 5 years |
| Presentation: Box | Presentation: box | Socket: E27 | Material: Aluminium + PC Material |
| Und / Box: 1 | Und / Box: 1 | CRI >80 | Non Dimmable |
| Temperature: 3000K to 6500K | Temperature: 3.000 / 4.000 K | IP: 20 | Indoor product |





BULB T100

BE - A6009 / BE - A6015

The T100 LED Bulb with E27 Socket compared to an incandescent lamp, is more powerful and consumes up to 85% less and lasts up to 25 times longer. It stands out for its luminosity 900 Lumens in 9W and 1500 lumens with 15W, an opening angle of 200°. It is powerful, economical and sustainable, greater efficiency at the lowest price.

Our industrial Globo T100 model is top quality in the professional market, where thousands of units provide their high luminous power for hours and hours without failures. We are endorsed by thousands of installed units where our lamp leads the ranking of satisfaction.

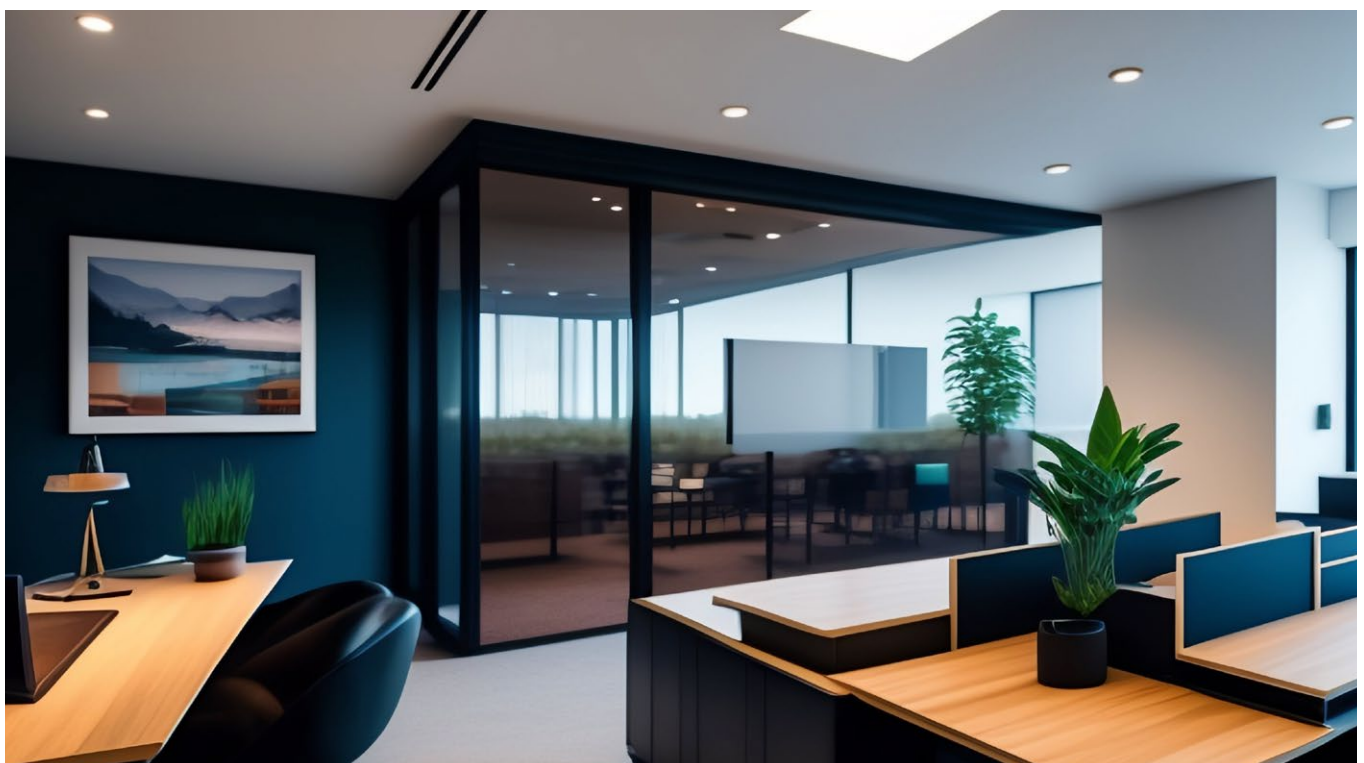
Our LED light bulbs have an exceptional lifespan estimated at 30,000 hours, thanks to the quality of the materials, such as PC and aluminium used. Recommended for business, industrial or domestic lighting. Gardens, sheds, workshops, farms, large rooms, etc.



BE - A6009

BE - A6015

| | | | |
|-----------------------------|------------------------------|-------------------------------|-----------------------------------|
| Power: 9W | Power: 15W | Bulb LED T100 | Lifetime: 30.000 hours (15 years) |
| Lumens: 900 | Lumens: 1.500 | Color: Natural and warm white | Guarantee: 5 years |
| Presentation: Box | Presentation: Box | Socket: E27 | Material: Aluminium + PC Material |
| Und / Box: 1 | Und / Box: 1 | CRI >80 | Non Dimmable |
| Temperature: 3000K to 6500K | Temperature: 3.000 / 4.000 K | IP: 20 | Indoor Product |





LED PANEL

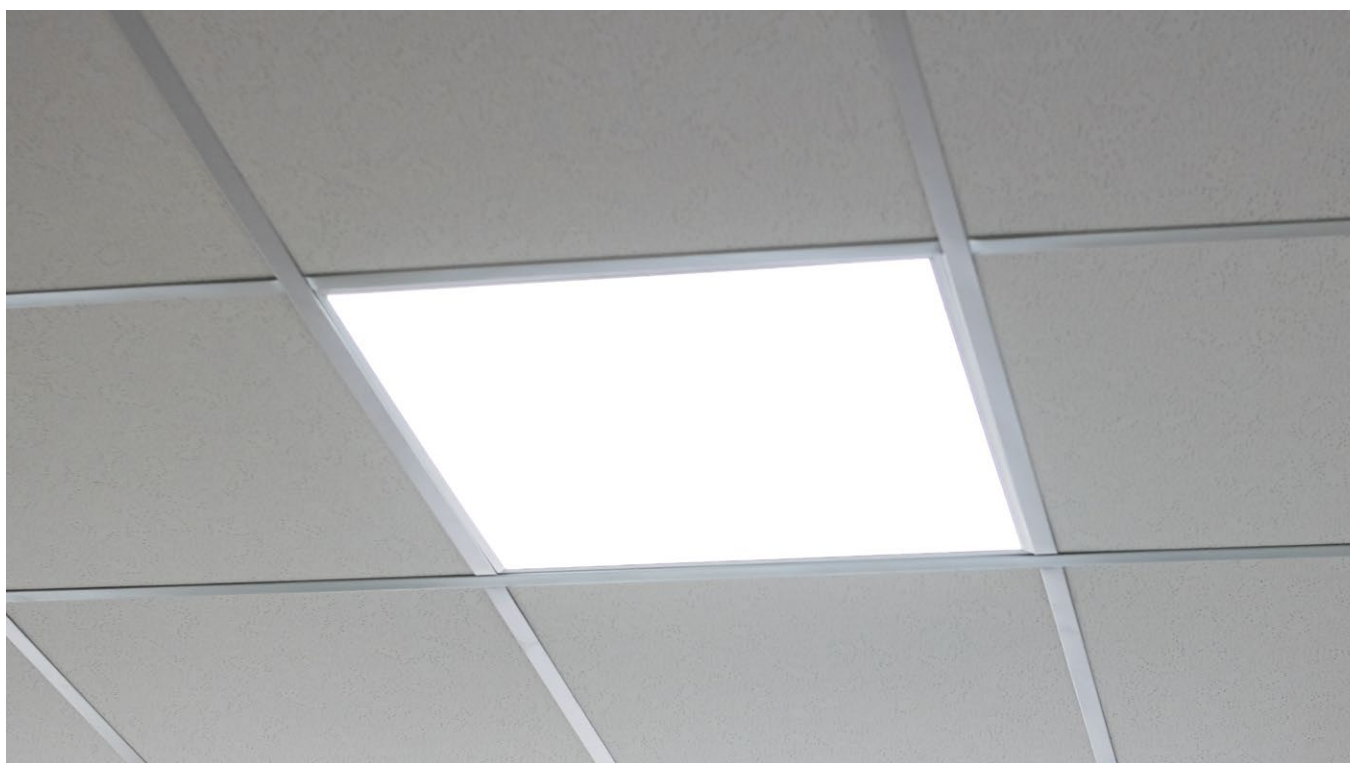
600 MM X 600 MM

The Panel Led model is specially designed for interior lighting in open-plan spaces such as offices, offices, convention halls, etc.

Developed with an average life of more than 30,000 hours. Its energy consumption is only 36W ($\pm 5\%$). It is ideal to replace the typical 2x26W CFL (low consumption) downlight and also to replace the 4 fluorescent tube ceiling lights with 18W consumption.



| | | |
|-----------------------------|--------------------------------|-----------------------------------|
| Power: 36W | LED Panel | Lifetime: 30.000 hours (15 years) |
| Lumens: 3.000 | Color: Natural and warm white | Guarantee: 5 years |
| Presentation: Box | Socket: Direct grid connection | Material: Aluminium + PC Material |
| Und / Box: 1 | CRI >80 | Non Dimmable |
| Temperature: 3000K to 6500K | IP: 20 | Indoor Product |





SMD DOWNLIGHT

BE-M1101

The SuperSlim circular LED downlight is defined by its extreme slimness, innovative design and energy efficiency. Features of the SuperSlim circular LED downlight Capable of replacing a luminaire up to 150W, this LED luminaire withstands input voltage variations from 85V to 265V AC. As a class II LED lighting element, it does not require connection to earth.

Thanks to the quality of its materials and the aluminium heatsink it incorporates, it dissipates heat excellently. Although it is designed for indoor use, it can work in environments with a temperature range from -20°C to 45°C. Designed as a general lighting element, the SuperSlim circular LED panel has a light opening angle of 120° and has an opal diffuser that offers a very pleasant light.



| BE - M1101 | BE - M1101 | BE - M1101 | BE - M1101 | BE - M1101 | BE - M1101 | BE - M1101 |
|-----------------------------|-----------------------------|---|-----------------------------|-----------------------------------|------------------------------|------------------------------|
| Power: 5W | Power: 10W | Power: 12W | Power: 15W | Power: 18W | Power: 24W | Power: 32W |
| Lumens: 400 | Lumens: 800 | Lumens: 960 | Lumens: 1.200 | Lumens: 1.440 | Lumens: 1.920 | Lumens: 2.560 |
| Measures (mm): 100x30x75 | Measures (mm): 120x30x95 | Measures (mm): 145x30x115 | Measures (mm): 100x30x75 | Measures (mm): 170x30x140 | Measures (mm): 230x30x190 | Measures (mm): 230x30x190 |
| Voltage: 85-265VAC | | BE-M1101 | | Lifetime: 30.000 hours (15 years) | | |
| Opening angle: 120° | | Color: White / Black | | Guarantee: 5 years | | |
| Presentation: box | | Socket: External driver direct to mains | | Material: Aluminium + PC Material | | |
| Und / Box: 1 | | CRI >80 | | Non Dimmable | | |
| Temperature: 3000K to 6500K | | IP: 44 | | Indoor Product | | |





SMD DOWNLIGHT

BE-M1102

Its large depth ensures low glare. It has an internal reflector to optimise light distribution. Ideal for corridors, meeting rooms, offices, etc.



BE-M1102

Power: 8W

Lumens: 640

Measures (mm):
90x50x75

BE - M1102

Power: 12W

Lumens: 960

Measures (mm):
102x52x95

BE - M1102

Power: 18W

Lumens: 1.440

Measures (mm):
126x66x95

Voltage: 85-265VAC

Opening angle: 120°

Presentation: Box

Und / Box: 1

Temperature: 3000K to 6500K

BE-M1102

Color: White / Black

Socket: External driver direct to mains

CRI >80

IP: 44

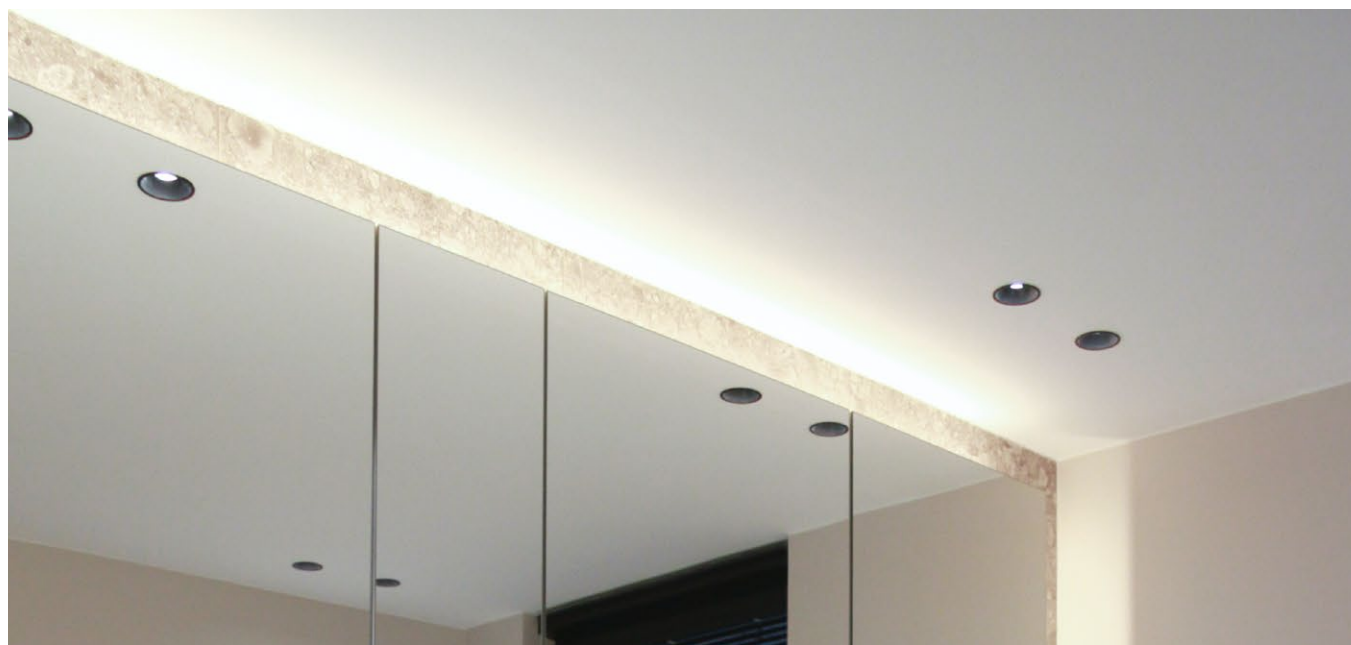
Lifetime: 30.000 hours (15 years)

Guarantee: 5 years

Material: Aluminium + PC Material

Non Dimmable

Indoor Product





COB SPOT DOWNLIGHT

BE-M1104

Description The White Circular Directional COB LED Downlight, in its different sizes and powers. No Flicker is a very versatile product that will allow us to direct the light towards specific points depending on the needs of the moment, providing significant savings in electricity consumption. Characteristics of the White Circular Directional COB LED Downlight, It incorporates LED optics in its different powers, with which we obtain a high luminosity to replace conventional spotlights with a saving of over 90%. The high quality light it emits is centred at an angle of 60° and has a colour rendering index of over 80. All the characteristics of this LED lighting product mean that it has a good performance. Ideal for use in interior spaces where the use of a large amount of light is not necessary. It is mainly used in transit areas such as hallways, corridors or stairways.



| BE - M1104 | BE - M1104 | BE - M1104 | BE - M1104 | BE - M1104 |
|--------------------------------|----------------------------|---|------------------------------|-----------------------------------|
| Power: 5W | Power: 7W | Power: 12W | Power: 15W | Power: 20W |
| Lumens: 400 | Lumens: 560 | Lumens: 960 | Lumens: 1.200 | Lumens: 1.600 |
| Measures (mm): 68x38x55 | Measures (mm): 90x46x75 | Measures (mm): 110x60x95 | Measures (mm): 140x68x120 | Measures (mm): 180x100x160 |
| Voltage: 85-265VAC | | BE-M1104 | | Lifetime: 30.000 hours (15 years) |
| Opening angle: 15° / 24° / 38° | | Color: White / Black | | Guarantee: 5 años |
| Presentation: Box | | Socket: External driver direct to mains | | Material: Aluminium + PC Material |
| Und / Box: 1 | | CRI >80 | | No Dimable |
| Temperature: 3000K to 6500K | | IP: 44 | | Indoor Product |





COB LED DOWNLIGHT

BE-D8309

Description The LED Plate or Downlight CCT Selectable Circular Micro prismatic (UGR17) stands out for its minimalist design, and its opal diffuser, which offers a semi-diffused light, ideal for both commercial and domestic use. Features of the Micro Prismatic Circular LED Downlight (UGR17). Equipped with a COB chip, it offers great luminosity, distributed at an angle of 120°, which makes it perfect as a general lighting source. It is able to withstand variations between 85- 265V AC. In addition, it is connected directly to the mains as it includes a driver that adapts the mains voltage to the input voltage of the luminaire. It is very easy to install and, as it is so slim, it can be installed in low false ceilings where more voluminous solutions could not be used. It is designed for use in interior spaces.



| BE - D8309 | BE - D8309 | BE - D8309 | BE - D8309 | BE - D8309 |
|-----------------------------|------------------------------|---|-----------------------------------|-------------------------------|
| Power: 5W | Power: 10W | Power: 15W | Power: 20W | Power: 30W |
| Lumens: 450 | Lumens: 900 | Lumens: 1.350 | Lumens: 1.800 | Lumens: 2.700 |
| Measures (mm): 90x50x75 | Measures (mm): 120x65x105 | Measures (mm): 150x85x125 | Measures (mm): 200x110x210 | Measures (mm): 230x110x210 |
| Voltage: 85-265VAC | | BE-D8309 | Lifetime: 30.000 hours (15 years) | |
| Opening angle: 60° | | Color: White / Black | Guarantee: 5 years | |
| Presentation: Box | | Socket: External driver direct to mains | Material: Cast Aluminium | |
| Und / Box: 1 | | CRI >80 | Non Dimmable | |
| Temperature: 3000K to 6500K | | IP: 20 | Indoor Product | |





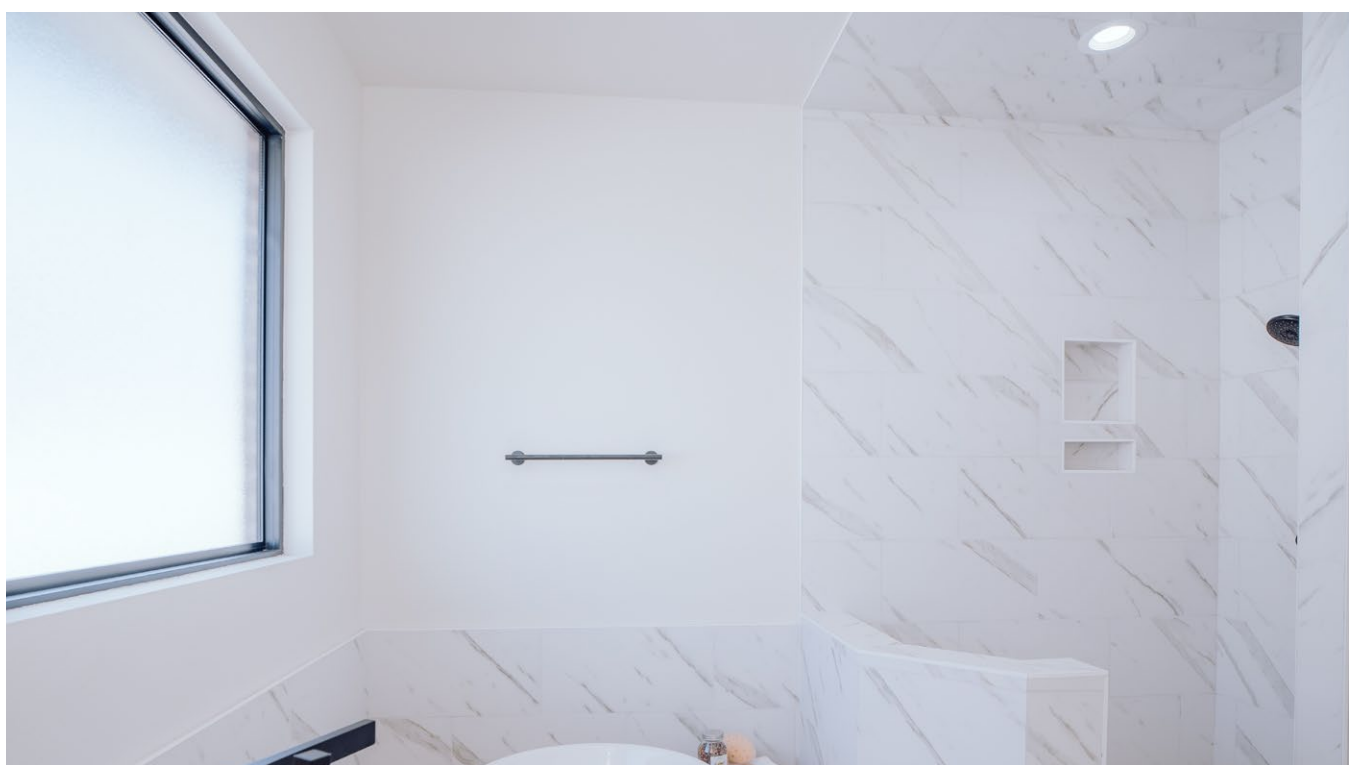
BULB GU10 LED

BE-G5005

LED Retrofit product for the replacement of halogen bulbs and lamps, with a saving of more than 85% and an estimated lifetime of 30,000 hours or more than 15 years.



| | | |
|-----------------------------|----------------------------|-----------------------------------|
| Power: 5W | BE-G5005 | Lifetime: 30.000 hours (15 years) |
| Lumens: 450 | Color Natural white / Warm | Guarantee: 5 years |
| Presentation: Box | Socket: GU10 | Material: Aluminium + PC Material |
| Und / Box: 1 | CRI >80 | Non Dimmable |
| Temperature: 3000K to 6500K | IP: 20 | Indoor Product |
| Measures (mm): 50x56 | Voltage: 85-265VAC | Opening angle: 50° |





LED SPOTLIGHT RETAIL

BE-G2570

The Black or White LED Track Spotlight provides versatile lighting perfect for ever-changing spaces where decorative elements or products on display need to be highlighted. Features of the LED Track Spot 30W Black/White Integrates a high performance COB technology light source. It provides a high quality light that ensures a very natural reproduction of colours. It is mainly used in the tertiary sector in spaces such as shops, exhibition halls, commercial galleries, hotels, etc. Places that require a versatile accent light that adapts to the arrangement of the products on display. In these types of spaces where activity takes place over many hours, LED lighting brings considerable savings in terms of energy consumption and helps to minimise maintenance costs. *For prolonged use of more than 8 hours, we recommend spotlights made of Aluminium material such as ours.



| | | |
|-----------------------------|--------------------------|------------------------|
| Power: 30W | BE-G2570 | Lifetime: 35.000 hours |
| Lumens: 2.700 | Color: White | Guarantee: 5 years |
| Presentation: Box | Socket: Three-phase rail | Material: Aluminium |
| Und / Box: 1 | CRI >80 | Non Dimmable |
| Temperature: 3000K to 6500K | IP: 25 | Indoor Product |
| Measures (mm): 76x180 | Voltage: 85-265VAC | Opening angle: 38° |





LED TUBE T8

BE-T8D

T8 LED tube with single-ended connection and SMD2835 light source. Its direct connection to the mains eliminates the residual consumption of ballasts and starters, allowing greater durability and less maintenance, instant switching on and the absence of the flicker effect (light flickering). No noise. It has a high efficacy (100 Lm/W) with a low consumption by means of SMD2835 LEDs providing a very high luminous flux distributed uniformly by an opal diffuser from which a colour rendering index of 80 is obtained.

Its consumption represents a value of 18kWh/1000h, (9kWh/1000h, 22kWh/1000h) reducing the amount of energy billed and the emissions of polluting gases into the atmosphere. It has an IP25 degree of protection (valid for indoor dust and humidity), as well as being sufficiently robust for the required mechanical requirements.



BE-T8D

Power: 9W

Lumens: 900

Measures (mm):
600

Voltage: 85-265VAC

Opening angle: 120°

Presentation: Box

Und / Box: 1

Temperature: 3000K to 6500K

BE-T8D

Power: 18W

Lumens: 1.800

Measures (mm):
1200

BE-T8D

Color: White / Cold White

Socket: External driver direct to mains

CRI >70

IP: 40

BE-T8D

Power: 22W

Lumens: 2.200

Measures (mm):
1500

Lifetime: 30.000 hours (15 years)

Guarantee: 5 years

Material: Aluminium + PC Material

Non Dimmable

Indoor Product



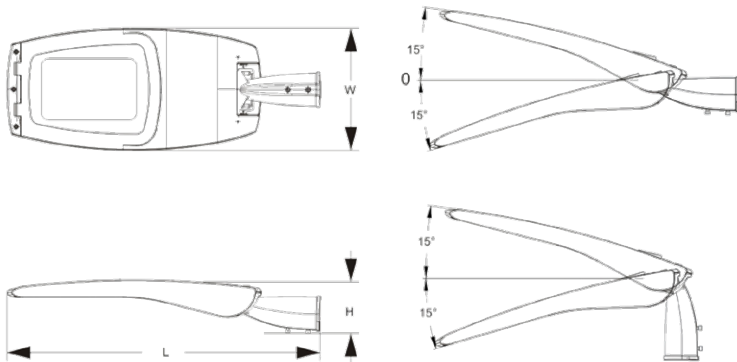


STREET LAMP

MO-WSTR-A01

Belenus LED Luminaire from 75W to 260W Dimmable 1-10V Street lighting. This is one of the latest generation luminaires, offering instant switching on thanks to its LED technology, as well as great power. It is the ideal replacement for the old discharge lamps, improving the quality of light and significantly reducing energy consumption.

Features of the Belenus Dimmable LED Luminaire 1-10V Public Lighting The body of the luminaire has been manufactured in aluminium using the injection moulding method to guarantee optimum quality and facilitate heat dissipation. Once the driver is powered, the voltage will be automatically adjusted and the output voltage will be constant. The entire power range incorporates an IP65 enclosure that protects against moisture, vibration and temperature, ensuring maximum durability.



| MO-50WSTR-A01 | MO-60WSTR-A01 | MO-100WSTR-A01 | MO-120WSTR-A01 | MO-150WSTR-A01 |
|-----------------------------|---------------------------|-------------------------------|----------------------------|---|
| Power: 50W | Power: 60W | Power: 100W | Power: 120W | Power: 150W |
| Lumens: 7.000 | Lumens: 8.400 | Lumens: 14.000 | Lumens:16.800 | Lumens: 21.000 |
| Measures (mm): 500x168x90 | Measures (mm): 500x168x90 | Measures (mm): 600x200x100 | Measures (mm): 600x200x100 | Measures (mm): 680x220x100 |
| Input: AC100-277V, 50/60Hz | | MO-WSTR-A01 | | Lifetime: 50.000 hours (15 years) |
| Opening angle: 155°80° | | Color: Natural and Warm White | | Guarantee: 5 years |
| Presentation: Box | | Chip: Philips SMD2835, Ra>70 | | Material: Aluminum housing + PMMA cover |
| Und / Box: 1 | | Diver: TUV driver, PF>0.9 | | Non Dimmable |
| Temperature: 3000K to 6500K | | IP: 66 Waterproof | | Outdoor Product |

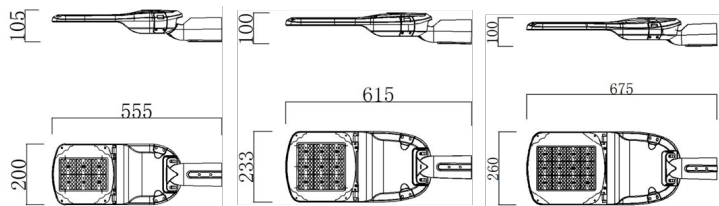




PUBLIC ROADS OUTSIDE

Mo-LSP50W-L01 / Mo-LSP100W-L02 / Mo-LSP150W-L03

The Belenus Street Dimmable 1-10V LED luminaire for public and street lighting. This is a state-of-the-art luminaire, offering instant switching on thanks to its LED technology, as well as high power. It is the ideal replacement for the old discharge lamps, improving the quality of light and significantly reducing energy consumption. Features of the LED Street Belenus Dimmable 1-10V Street Lighting Luminaire The body of the luminaire has been manufactured in aluminium using the injection moulding method to guarantee optimum quality and facilitate heat dissipation. It has an easy locking system that improves handling and functionality. Its design guarantees an IP66 protection factor perfect for outdoor installation. The PCB is covered with high quality transparent glass. Equipped with the latest lighting technologies, this lantern incorporates a light source with high power SMD5050 LED technology, with a high luminous efficiency. Features of the XITANIUM Driver Dimmable 1-10V A LED driver is responsible for transforming the alternating current from the mains into direct current suitable for making the LED chips shine. Belenus By ISSOP Technology offers unique



reliability and flexibility, providing high performance and optimum efficiency of the equipment. The Driver has a multi-voltage input. This means that it is able to withstand line voltage surges and dips for a short period of time without damage. In addition, its output is also multi-voltage which means that it can deliver a constant voltage within a range allowing the same driver to be used for a variety of applications with different current and voltage requirements. Once the driver is powered, the voltage will automatically adjust and the output voltage will be constant. The entire range of drivers we use at Belenus By ISSOP Technology incorporates an IP65/IP66 enclosure that protects against moisture, vibration and temperature, ensuring maximum durability. The 1-10V dimmable driver should be used in conjunction with a desired dimmer, offering Smart city applications. Its power factor is very high, making it a very efficient 1-10V LED driver that allows us to easily select the desired light intensity.



Mo-LSP50W-L01

Power: 50W

Power: 8.000

Measures (mm):
555x200x105

Voltage: 100-277VAC

Opening angle: 120°

Presentation: Box

Und / Box: 1

Temperature: 3000K to 6500K

Mo-LSP100W-L02

Power: 100W

Power: 16.000

Measures (mm):
615x233x100

Adapted to Smart City

Color: Natural and Warm White

Socket: Direct to mains

CRI >75

IP: 66

Mo-LSP150W-L03

Power: 150W

Power: 24.000

Measures (mm):
675x260x100

Lifetime: 85.000 hours

Guarantee: 5 years

Material: Aluminium + Glass

Dimmable: adjustable from 1-10V

Outdoor Product





OUTDOOR LED FLOODLIGHTS

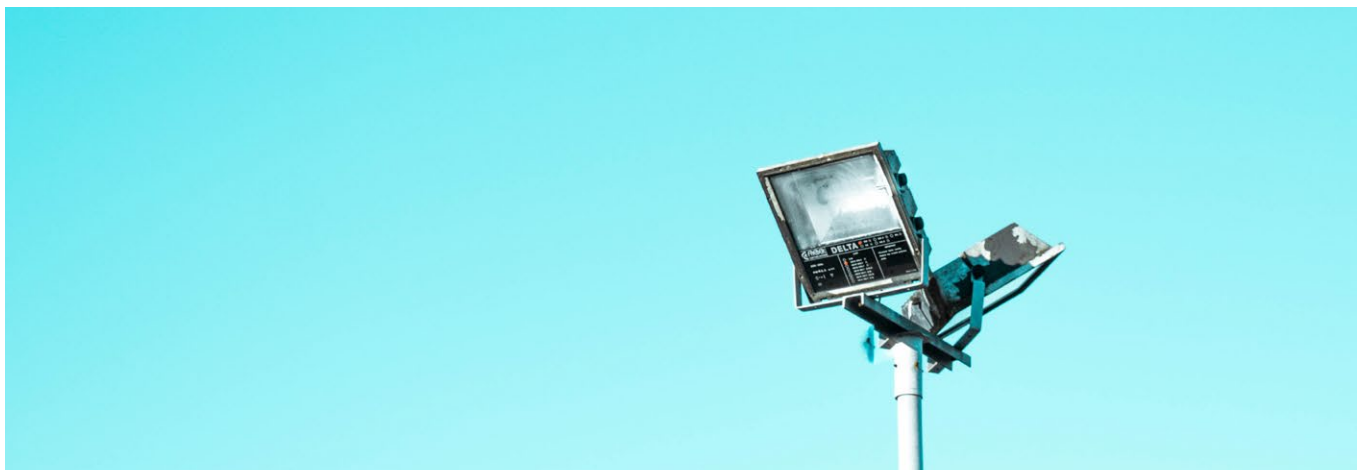
MO-10WFL-B01 / MO-200WFL-B01

The Dimmable Premium LED Floodlight specifically designed for outdoor lighting, sports, facades, etc. provides high performance features covering adequately and optimally the most demanding courts, courts and fields, combining its incredible features with a simple yet elegant design. Features of the floodlight, equipped with powerful 5050 LEDs, can be used to illuminate paddle and tennis courts using 130x60° T3-S1 type lenses. In addition, these floodlights are also used for road lighting. Single lane roads need a narrower light distribution to illuminate the road efficiently, Type T1 lenses would be used. Two-lane roads would use Type T2 lenses. Three-lane T3. Large car parks need a wider light distribu-

tion to illuminate a larger area, in this case we would use a Type T4 or T5 lens. This Premium Floodlight is designed to suit the lighting conditions required for each application. Aperture angles are measured in degrees and refer to the angle formed by the beam of light leaving the floodlight. The wider the opening angle, the wider the light distribution and vice versa. It has an adjustable driver, making it very versatile and offering protection against short circuits, overvoltage, overload and overheating. The aluminium housing incorporates heatsinks that optimise the cooling of the luminaire, allowing it to be used in unusual hot or cold conditions. Advantages of the LED Project Floodlight: The luminaire allows us to enjoy quality lighting, reducing energy consumption by up to 80%. The IP66 protection factor of the Premium LED Projector Spotlight makes it perfect for lighting outdoor spaces, where it can replace halogen spotlights.



| MO-10WFL-B01 | MO-20WFL-B01 | MO-30WFL-B01 | MO-50WFL-B01 |
|------------------------------------|------------------------------------|------------------------------------|------------------------------|
| Power: 10W | Power: 20W | Power: 30W | Power: 50W |
| Lumens: 1.400 | Lumens: 2.800 | Lumens: 4.200 | Lumens: 7.000 |
| Measures (mm): 131x128x47 | Measures (mm): 176x175x56 | Measures (mm): 220x205x60 | Measures (mm): 280x255x70 |
| MO-100WFL-B01 | MO-150WFL-B01 | MO-200WFL-B01 | |
| Power: 100W | Power: 150W | Power: 200W | |
| Lumens: 140.000 | Lumens: 21.000 | Lumens: 28.000 | |
| Measures (mm): (mm): 286x282x72 | Measures (mm): (mm): 346x335x83 | Measures (mm): (mm): 413x388x93 | |
| Voltage: 100-277VAC | EMC driver | | Lifetime: 60.000 hours |
| Opening angle: 120° | Color: Natural and Warm White | | Guarantee: 5 years |
| Presentation: Box | Socket: Epistar SMD2835 | | Material: Aluminium + Glass |
| Und / Box: 1 | CRI >70 | | Non Dimmable |
| Temperature: 3000K to 6500K | IP: 66 | | Outdoor Product |





SOLAR LED STREET LIGHT

BE-MO-YTHST20W-A01

The Belenus By ISSOP Technology solar luminaire makes it easier than ever to meet your sustainability goals. With an integrated solar panel, and Lithium Ferrophosphate (LFP) battery, these solar street lights feature off-grid versions, also available in a wide range of colour temperatures from 3000K to 6500K with specific light prescriptions that help to avoid light pollution in protected areas. All this in a distinctive aluminium housing design (PDC) that is robust and durable. So you can bring light to off-grid areas for years and years to come. The Belenus solar luminaire uses the latest LED technology to achieve a long life of over 200,000 hours with best-in-class L95 light maintenance. The mounting

spigot offers different tilt angles and the option of side and post-top mounting. With our optimised optics you can also increase the distance between poles to reduce the total cost of ownership in a wide range of applications. We have created the Belenus solar luminaire for quick and easy installation, with access to the equipped compartment from above and without the need for tools, for easy mounting and maintenance. Connectivity and dimming options are available, including a radar motion sensor to automatically increase light levels when presence is detected. There is also the option to group and control neighbouring lanterns via an internal network to increase light levels in a coordinated manner in the event of presence or activity detection.



BE-MO-YTHST20W-A01

Power: 20W
 Lúmens: 3.400-3.600
 Voltage: 6-40VAC

BE-MO-YTHST40W-A03

Power: 40W
 Lúmens: 6.800-7.200
 Voltage: 18-60VAC

BE-MO-YTHST60W-A05

Power: 60W
 Lúmens: 10.200-10.800
 Voltage: 18-100VAC

BE-MO-YTHST80W-A07

Power: 80W
 Lúmens: 13.600-14.400
 Voltage: 18-120VAC

BE-MO-YTHST100W-A08

Power: 100W
 Lúmens: 17.000-18.000
 Voltage: 36-150VAC

MO-YTHST120W-A09

Power: 120W
 Lúmens: 20.400-21.600
 Voltage: 36-200VAC

LiFePO4 Battery

Opening angle: T2

Presentation: Box

Und / Box: 1

Temperature: 3000K to 6500K

Charging time: 6-8 Hours

Color: Natural and Warm White

Socket: Philips Lumileds or SEUL 5050LEDs

CRI >70

IP: 66

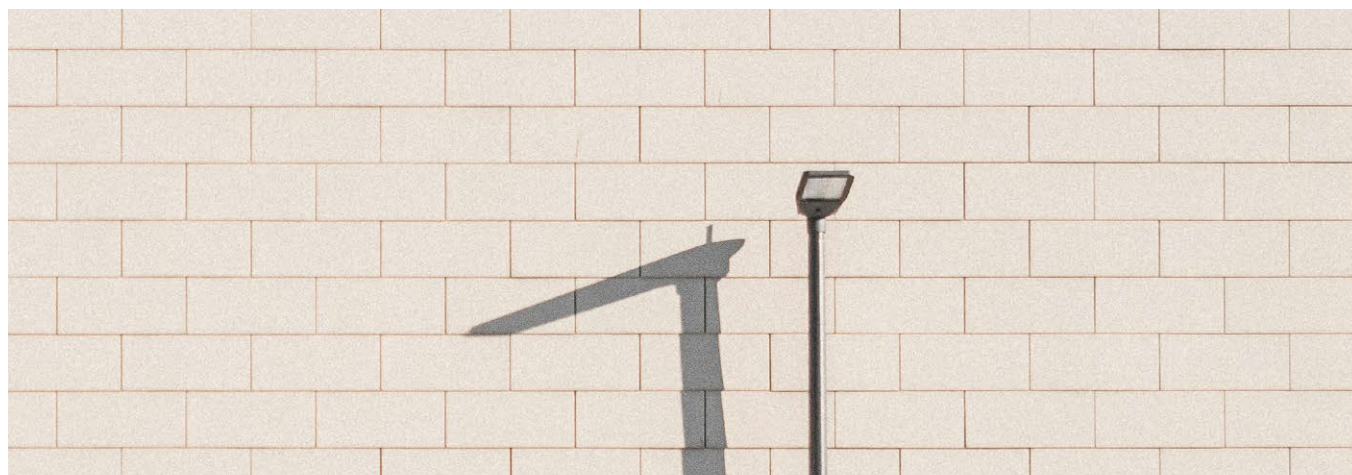
Usage time: 12-15 Hours

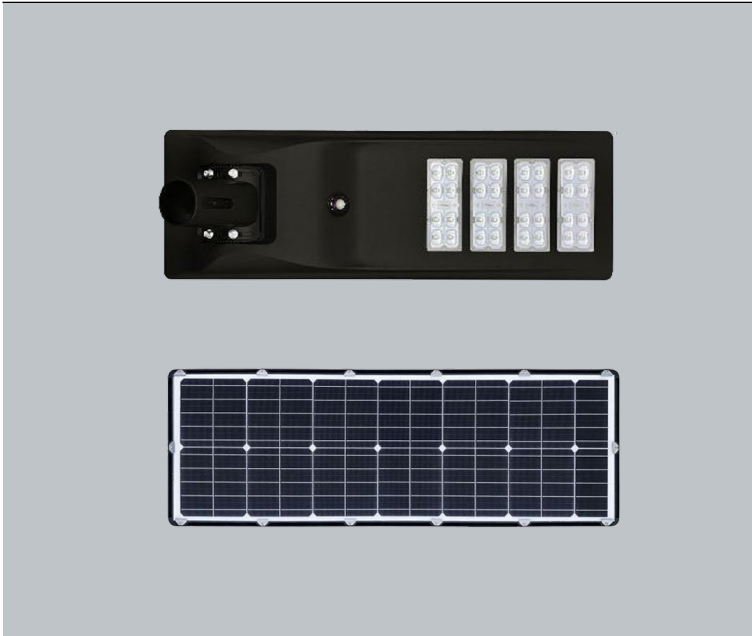
Guarantee: 7 years

Material: Aluminium alloy

Non Dimmable

Outdoor Product





SOLAR LED STREET LIGHT

BE-MS-SSL15WZ-L01

The Belenus By ISSOP Technology solar luminaire makes it easier than ever to meet your sustainability goals. With an integrated solar panel, and Lithium Ferrophosphate (LFP) battery, these solar street lights feature off-grid versions, also available in a wide range of colour temperatures from 3000K to 6500K with specific light prescriptions that help to avoid light pollution in protected areas. All this in a distinctive aluminium housing design (PDC) that is robust and durable. So you can bring light to off-grid areas for years and years to come. The Belenus solar luminaire uses the latest LED technology to achieve a long life of over 200,000 hours with best-in-class L95 light maintenance. The mounting

spigot offers different tilt angles and the option of side and post-top mounting. With our optimised optics you can also increase the distance between poles to reduce the total cost of ownership in a wide range of applications. We have created the Belenus solar luminaire for quick and easy installation, with access to the equipped compartment from above and without the need for tools, for easy mounting and maintenance. Connectivity and dimming options are available, including a radar motion sensor to automatically increase light levels when presence is detected. There is also the option to group and control neighbouring lanterns via an internal network to increase light levels in a coordinated manner in the event of presence or activity detection.



BE-MS-SSL15WZ-L01

Power: 15W

Lúmens: 2.550-2.700

Voltage: 6-40VAC

BE-MS-SSL20WZ-L02

Power: 20W

Lúmens: 3.400-3.600

Voltage: 6-50VAC

BE-MS-SSL30WZ-L03

Power: 30W

Lúmens: 5.100-5.400

Voltage: 6-60VAC

LiFePO4 Battery

Opening angle: T2

Presentation: Box

Und / Box: 1

Temperature: 3000K to 6500K

Charging time: 6-8 Hours

Color: Natural and Warm White

Socket: Philips Lumileds Or Seul 5050LEDs

CRI >70

IP: 66

Usage time: 12-15 Hours

Guarantee: 5 years

Material: Aluminium alloy

Non Dimmable

Outdoor Product



COMPARATIVE TECHNICAL REPORT

Most consumer goods are designed to stop working after a certain period of time. It is necessary to promote the change towards a sustainable and supportive economic model through ethical and environmentally responsible products.

This is the raison d'être of BELENUS By ISSOP Technology, which has created the first and only line of domestic, professional, industrial and public administration lighting without programmed obsolescence, i.e. all its components are designed not to fail, to reduce energy consumption and to achieve the maximum durability allowed by current technology.

By adding to the design the concepts of easily repairable and upgradable with the most advanced technological improvements, we achieve a lower consumption of raw materials, less waste generation and therefore be more respectful with the environment. Oep Electrics World Corporation SL is the first company in the world to be certified by TuvRheinland as a manufacturer of LED technology without programmed obsolescence.



COMPARATIVE TECHNICAL REPORT

BELENUS By ISSOP Technology entire family of luminaires is available for public bodies, industry, commerce and also private individuals. This equipment stands out because it has been manufactured without programmed obsolescence, because of the ease and speed of assembly, low energy consumption thanks to our use of LED technology and its high luminous efficiency.

All **BELENUS By ISSOP Technology** luminaires are **designed without programmed obsolescence**. The most technologically advanced components are used to guarantee the highest luminous efficiency with the longest durability allowed by the current state of the art:

- Latest generation LED chips.
- LEDs on aluminium or ceramic base.
- The operating current of the LED chips is a maximum of 60 to 70% of the design current stated by the manufacturer.
- The Printed Circuit Board (PCB), where the LED chips are inserted to generate the light emitting surface, is made of aluminium with a heat dissipation capacity of 3 with the inclusion of materials that increase it by 20% to 30% more.
- Aluminium housings with maximum dissipation and durability.

With these measures alone, we have an assembly that limits the temperature of the LED junction to below the thresholds established as harmful and can guarantee almost zero luminous depreciation for its entire lifetime, between 250,000 and 350,000 operating hours.

The **power supply system of the light modules** are manufactured according to BELENUS By ISSOP Technology standards:

- Electronic components without programmed obsolescence and oversized to guarantee a useful life of 250,000 to 350,000 hours, along the same lines as the luminous modules.
- Electronics designed to eliminate any flickering of the LEDs during their lifetime (flickering).

Flickering occurs because the intensity of the current reaching the emitting diode (LED) is not constant and therefore there are discontinuities in the flow of electrons passing through it.

It should be remembered that, like any diode, the current passing through an LED can only pass in one direction (from cathode to anode); if we connect the diode to a source of alternating current of, say, 60Hz, the light emitted by the LED would be interrupted 60 times every minute. This is because the LEDs are not connected to alternating current but to **direct current of constant intensity** by means of the conversion from AC to DC carried out by the electronic system designed for this purpose (the so-called "driver").

Therefore, if we notice flickering in an LED luminaire, it is because the driver does not perform its function optimally and the intensity of the current generated is not totally constant (it has ups and downs) and/or this intensity does not flow sufficiently so that the lighting generated by the diode chains light emission in a sufficiently continuous manner so that the eye does not perceive this flickering.

In short, the perceived flickering of LED lighting is "eliminated" by using a driver that keeps the current intensity constant. It is a question of technique (and cost, as more elements must be incorporated to make this constancy really stable).

- To achieve this, we use high quality, oversized, civil aviation electronic components, which remain stable over time throughout their service life.
- Range adaptable to any public luminaire management system.

This is why the product offers an initial warranty of 7 years with no small print, extendable to 10 years if the quality of the electrical supply panel is guaranteed by the incorporation of suitable surge protectors.

In this way we can guarantee a sustainable, environmentally and socially friendly product.

- It will generate minimal waste at the end of its useful life as it can be refurbished using many of the original elements.
- It will help to reduce the consumption of raw materials and CO2 emissions into the atmosphere by avoiding the unnecessary manufacture of elements that are 100% reusable due to their quality.



WE'RE
THE PLAN B

Design and production management in Spain
www.issoptechnology.com
Oep Electrics World Corporation SL

COMPARATIVE SUMMARY

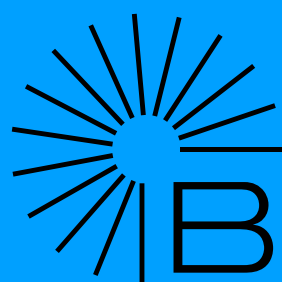
Manufacturing Conventional LED Technology

1. LEDs generally manufactured with a plastic base
2. The LED works between 90 and 100% in mA.
3. PCB generally made of FR4 material or aluminium with dissipation capacity 1, low dissipation.
4. Housing construction with low dissipation capacity and limited quality, also limiting ease of repair.
5. Life-limited drivers, such as electrolytic capacitors and other undersized components.
6. They shut off incoming and outgoing current, in order to avoid future electronics upgrades, and therefore repairs, by designing housings that are either beyond repair or very expensive to repair.
7. Warranties of between 2 and 5 years, with much shorter actual durability. Warranties often have small print that benefits the manufacturer.
8. Often equipment from the beginning or within a short time suffers from flickering.
9. Light decay from the first year onwards, on average 2.5% per 1,000 hours of use.
10. Without certificates guaranteeing a certain durability, such as TM21.

BELENUS By ISSOP Technology, no planned obsolescence

1. LED made of aluminium or ceramic base with maximum dissipation capacity.
2. The LED is never subjected to a pressure of more than 60 or 70% in mA.
3. PCB made of aluminium with maximum dissipation capacity, the three and inclusion of material that increase the dissipation, depending on the power of the equipment, between 20 and 50 30%.
4. Aluminium housing construction with maximum dissipation capacity and durability, including innovative materials to allow for repairability.
5. Driver made in-house or with over-dimensioned and tested components from civil aviation.
6. We leave all possibilities open so that equipment can be repaired and upgraded.
7. Minimum guarantee of 7 years, extendable to 10 years depending on the zones and checking the maintenance of the electrical panels and the protections in terms of overvoltage.
8. Total absence of flickering throughout its useful life.
9. Virtually no light decay during its lifetime.
10. First company in the world to be certified by TuvRheinland as a manufacturer of LED technology without planned obsolescence.





Design and production management in Spain
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