



2017 General Catalog

The following catalog shows informations about ESELED products to designers and technical specialists

ESELED

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ESELED

ESELED - Company

Founded in Santiago de Compostela in 2012, with the vocation to achieve energy savings through the use of LED lighting.

CUSTOMERS & ASSOCIATES



Customers & Associates.

Our roll of clients is formed by one of the biggest and largest companies of our country and we manage to create projects for them and also for their final customers. We have been developing projects in Panama, Mexico, Argentina and, off course, in Spain.

About Us

Eseled is a company specialized in the design, development and manufacture of efficient lighting material with led technology, whose production center is located in Santiago De Compostela (Spain). Our products comply with the highest quality standards, combined with an efficient production process and simplified design, allowing us to obtain our main competitive advantage: value for the money.

Own Solutions

Eseled has a product design, manufacture and development department, which allows us to offer solutions adapted to the needs of our customers.

Structure

At Eseled, we know that in order to achieve a quality product it is necessary to have control of all processes, from R & D to final details. That is the reason why we have created our own manufacturing infrastructure, obtaining agility and control over productive processes.

Therefore, all of our products are entirely national.

Services

We offer economical and efficient solutions for road, industrial, sports and parking lighting facilities. We take care of the energy services and of the integral maintenance of the facilities and we guarantee under contract the efficiency of our services.

Warranty

The quality of our products allows us to guarantee a long-term durability; therefore we offer extended warranty in all of our products, up to 12 years. Check the offer for each of our products.



PRODUCTS

INDUSTRIAL



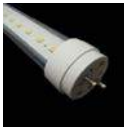
STREET LIGHTING



BEACONS



TUBES



OFFICES



RETROFIT



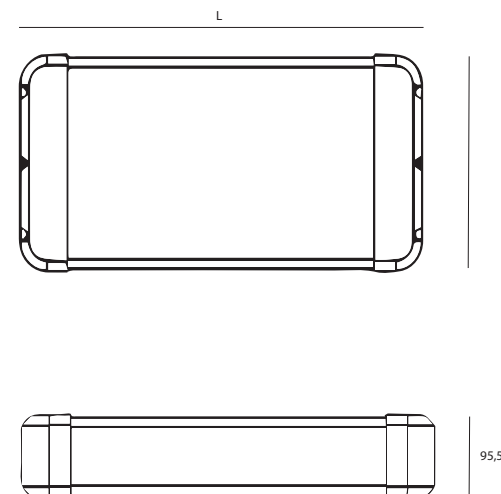
INDUSTRIAL FAMILY



Luminaires with symmetrical light intensity distribution. Robust, elegant and efficient, ideal for multiple applications, such as factories, industries warehouses, workshops, fairs, work areas at high altitude, logistical platforms or sports facilities.



ESI FAMILY



Features:

- **Optical protection type IP67.**
- **Extruded aluminum, anodized finish.**
- **IK10.**
- **Class II.**
- Covers available in **any range RAL under request.**
- Standard temperature colour **4000K.**
- Under request **3000K and 6000K.**
- Availability of **twilight sensors and/or presence.**
- **Several mounting possibilities.**
- Working temperature from **-35 ° C up to 65 ° C.**
- Protection against overvoltages **10kV.**
- **Constant light output function (CLO).**

Optional regulation:

- **Twilight and presence sensor.**
- Touch control panel.
- **Programmer and automatic control.**
- **Remote control.**

Model	Leds	Weight	Length	Intensity		Power *		Luminous flux		Efficiency	
	Uds			Kg	mm	mA	W	W	Lm	Lm	Lm/W
ESI I	12	4,84	239	500	700	18	25,2	2.511	3.314	139,5	131,5
ESI II	24	4,94	239	500	700	36	50,4	5.022	6.628	139,5	131,5
ESI III	36	5,56	288	500	700	54	75,6	7.533	9.941	139,5	131,5
ESI IV	48	7,00	396	500	700	72	100,8	10.044	13.255	139,5	131,5
ESI V	60	8,70	466	500	700	90	126	12.555	16.569	139,5	131,5
ESI VI	72	9,19	516	500	700	108	151,2	15.066	19.883	139,5	131,5
ESI VIII	96	10,56	741	700		201,6		26.510		131,5	
ESI XVI **	192	**	**	700		403,2		53.021		131,5	

* The losses caused by the driver are not taken into account

** Check product's specific measures

Components and quality

Quality in every detail

DRIVER TRIDONIC

Driver designed and manufactured by Tridonic. Input voltage 198-264V AC. Constant output current up to 1050 mA. Flexible configuration and regulation via DALI, Ready2mains, U6Me2 and

I-select2.. Short circuit protection, Open circuit, overvoltages and Overheating, which incorporates A thermal protection system Which turns off the luminaire if it is reached A certain critical temperature (100 ° C). Includes protection against Overvoltages of up to 10 kV. Constant Light Output Funktion (CLO).

LED MODULE

12 led modules designed and manufactured in Spain. They have a quick connector for easy assembly and replacement. Module efficiency up to 170 lumen / W. Protected against electrostatic currents. The optical system is certified with IP67. The light levels of the luminaires can be customized by varying the number of led modules or adapting the performance by adjusting the current intensity to the desired value.

SUPPORT PLATE

Support of the power supply in FR4, synthesized from a glass fiber impregnated at high temperatures and pressure, with epoxy resin. This insulating material presents excellent mechanical and dielectric strength especially for humid and / or aggressive environments.

SEALING BOARD

Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

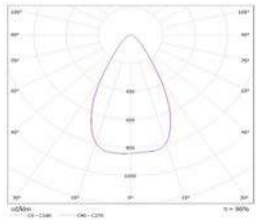
Extruded anodized aluminum profile designed to improve thermal management.

COMPENSATOR

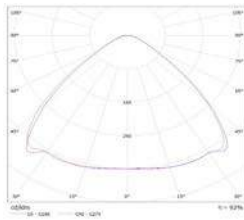
Pressure compensator IP68 to prevent condensation inside the luminaire.

Available optics

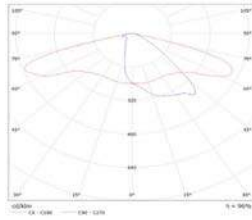
Lens of 60°



Lens of 100°



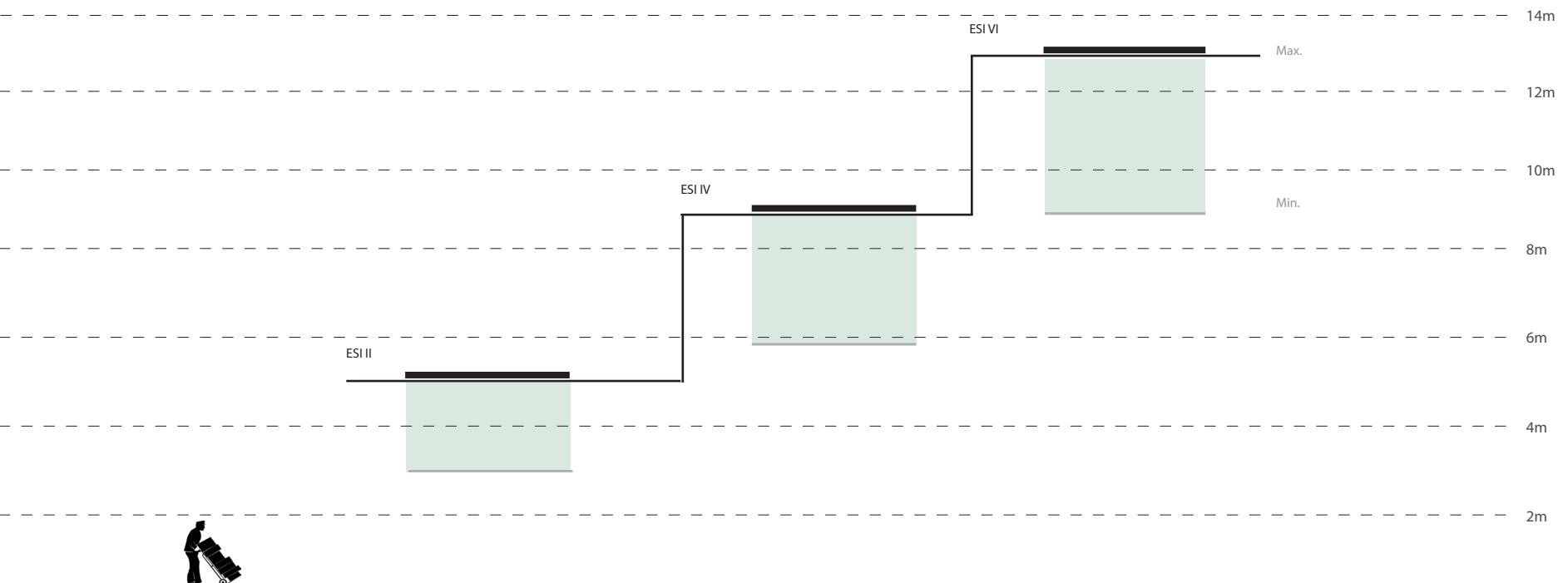
Road Lens



*More optics available under request.

Referential Location:

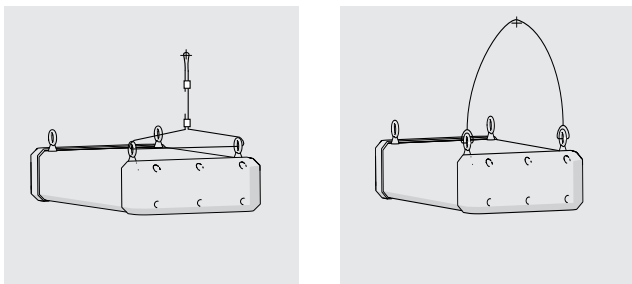
Reference for each model and power
Intensity 500 mA



Possibilities:

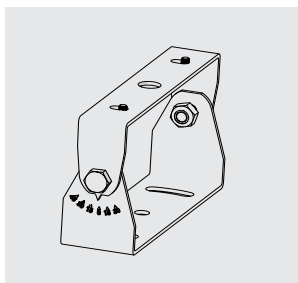
Hanged

- Made of **lacquered cast aluminum**.
- **Extruded aluminum**, anodized finish.
- Available in any **range RAL** under request.
- **Adaptable for attaching to commercial rods with a diameter of 50 mm up to 63 mm**
- Rotation up to **30 °**



WALL ANCHORAGE

- Made of **lacquered cast aluminum**.
- **Extruded aluminum**, anodized finish.
- Available in any **range RAL** under request
- **Several sizes** available depending **on the luminaire**.
- Rotation up to **60 °**



OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- Up to a maximum of **20 kA of current and 20 kV** of maximum supported **voltage**.
- In accordance with the rules applicable to class II.
- **Various sizes** available **depending on the luminaire**.

Reference

I X X X XXX / XXXX
I I I I I
ESI I C W INTENSITY DATE
II L WWW O
III
--

L: Wall Anchorage W: Lens 60 °
C: Hanged WWW: Lens 100 °
O: Shelving lens

IP66

IK10
MÓDULO LED



RoHS

COLORES
RAL

MADE IN
SPAIN

5 AÑOS
GARANTIA
ESELED



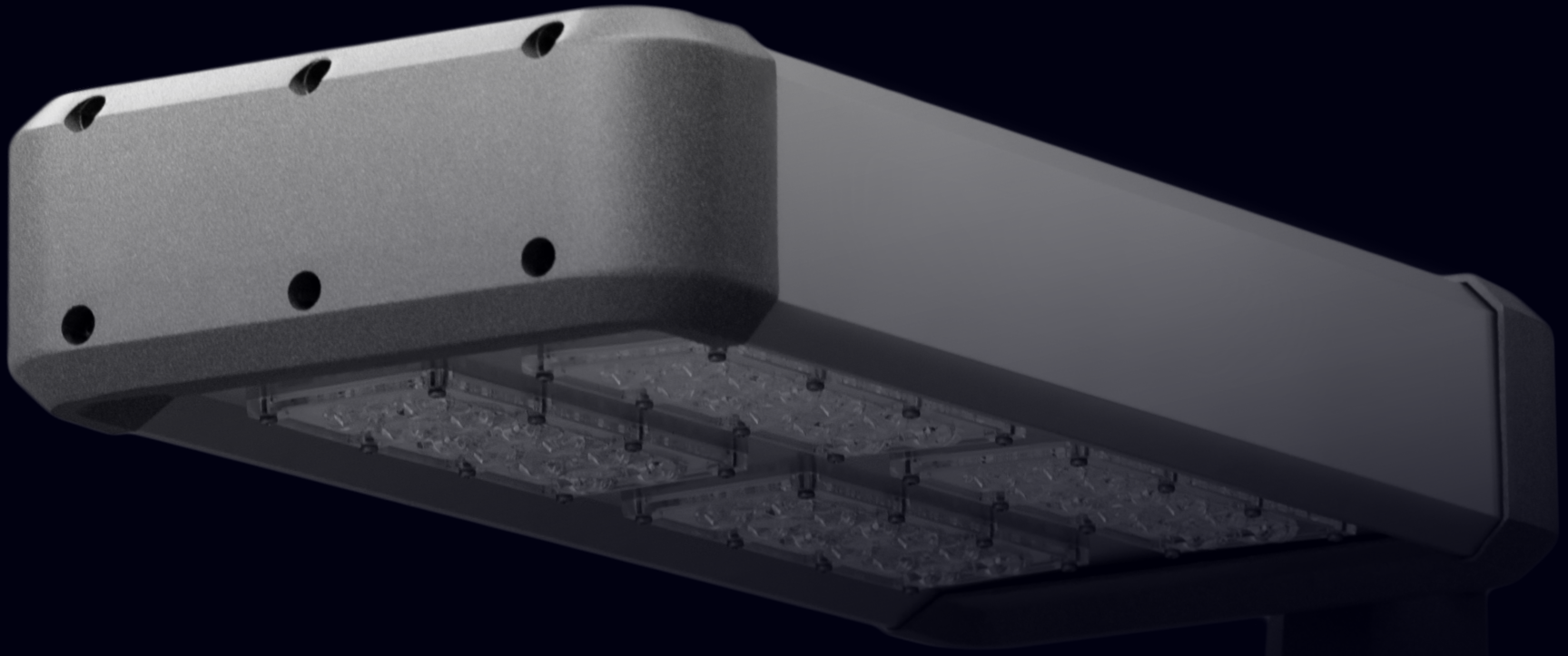
GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

STREET LIGHT FAMILY

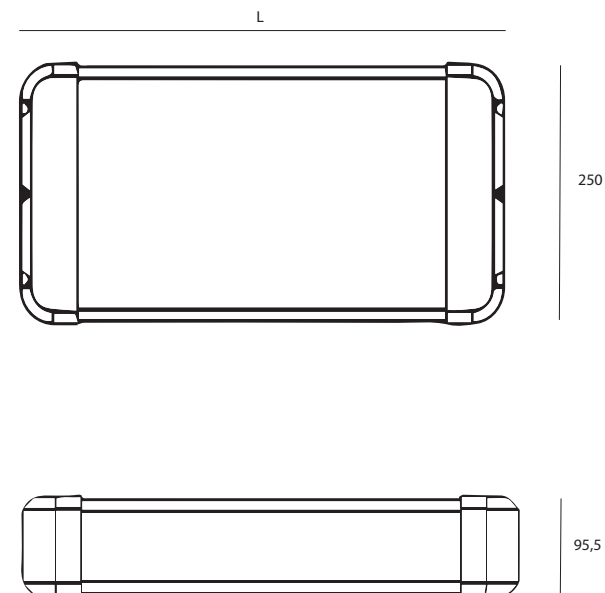


ESE

Luminaires with asymmetric distribution in the form of band in two sizes for different powers. They are highly versatile thanks to a robust anodized extruded aluminum body suitable even in the most adverse environments. They present different possibilities of assembly, adapting to different anchors and positions.



ESE FAMILY



Features:

- **Optical protection type IP67.**
- **Extruded aluminum, anodized finish.**
- **IK10.**
- **Class II.**
- Covers available in **any range RAL under request.**
- Standard temperature colour **4000K.**
- Under request **3000K and 6000K.**
- Availability of **twilight sensors and/or presence.**
- **Several mounting possibilities.**
- Working temperature from **-35 ° C up to 65 ° C.**
- Protection against overvoltages **10kV.**
- **Constant light output function (CLO).**

Optional regulation:

- **Twilight and presence sensor.**
- Touch control panel.
- **Programmer and automatic control.**
- **Remote control.**

Model	Leds	Weight	Length	Intensity		Real Power *		Luminous flux		Real Efficiency	
	Uds	Kg	mm	mA		W		Lm		Lm/W	
ESE I	12	4,84	239	500	700	18	25,2	2.511	3.314	139,5	131,5
ESE II	24	4,94	239	500	700	36	50,4	5.022	6.628	139,5	131,5
ESE III	36	5,56	288	500	700	54	75,6	7.533	9.941	139,5	131,5
ESEI IV	48	7,00	396	500	700	72	100,8	10.044	13.255	139,5	131,5
ESE V	60	8,70	466	500	700	90	126	12.555	16.569	139,5	131,5
ESE VI	72	9,19	516	500	700	108	151,2	15.066	19.883	139,5	131,5
ESE VIII	96	10,56	741	700		201,6		26.510		131,5	
ESE XVI **	192	**	**	700		403,2		53.021		131,5	

* The losses caused by the driver are not taken into account

** Check for product specific measures

Components and quality

Quality in every detail

DRIVER TRIDONIC

Driver designed and manufactured by Tridonic. Input voltage 198-264V AC. Constant output current up to 1050 mA. Flexible configuration and regulation via DALI, Ready2mains, U6Me2 and

I-select2.. Short circuit protection, Open circuit, overvoltages and Overheating, which incorporates A thermal protection system Which turns off the luminaire if it is reached A certain critical temperature (100 ° C). Includes protection against Overvoltages of up to 10 kV. Constant Light Output Funktion (CLO).

LED MODULE

12 led modules designed and manufactured in Spain. They have a quick connector for easy assembly and replacement. Module efficiency up to 170 lumen / W. Protected against electrostatic currents. The optical system is certified with IP67. The light levels of the luminaires can be customized by varying the number of led modules or adapting the performance by adjusting the current intensity to the desired value.

SUPPORT PLATE

Support of the power supply in FR4, synthesized from a glass fiber impregnated at high temperatures and pressure, with epoxy resin. This insulating material presents excellent mechanical and dielectric strength especially for humid and / or aggressive environments.

SEALING BOARD

Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

Extruded anodized aluminum profile designed to improve thermal management.

COMPENSATOR

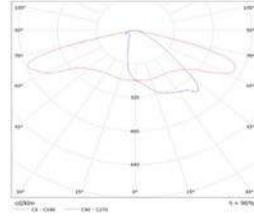
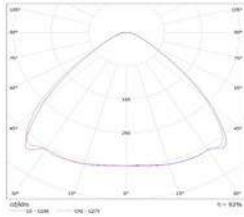
Pressure compensator IP68 to prevent condensation inside the luminaire.

Available optics

Lens of 60°

Lens of 100°

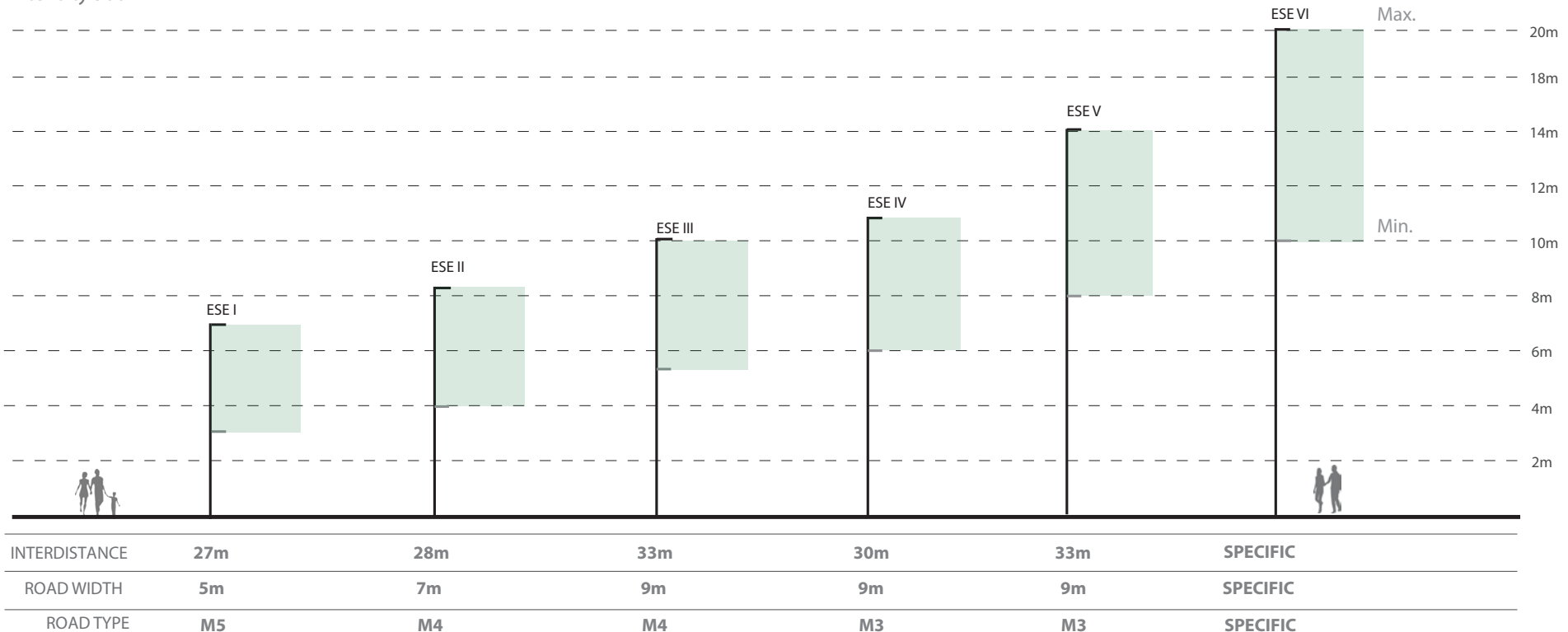
Road Lens



*More optical available under request.

Referential Location:

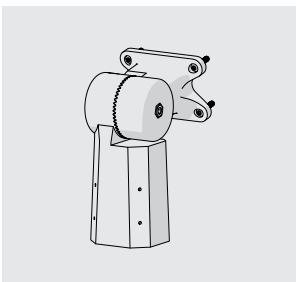
Reference for each model and power
Intensity 500 mA



Accessories

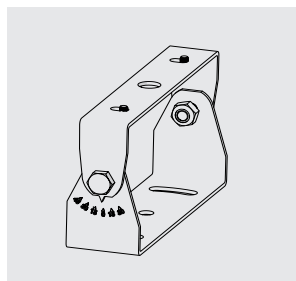
Arm

- Made of **lacquered cast aluminum**.
- **Extruded aluminum**, anodized finish.
- Available in any **range RAL** under request.
- **Adaptable for attaching to commercial rods with a diameter of 50 mm up to 63 mm**
- Rotation up to **30 °**



Wall anchors

- Made of **stainless steel**
- Extruded **aluminum**, anodized finish.
- Available in any **range RAL** under request.
- **Various sizes** available **depending on the luminaire**.
- Rotation up to **60 °**



OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- Up to a maximum of **20 kA of current and 20 kV** of maximum supported **voltage**.
- In accordance with the rules applicable to class II.
- **Various sizes** available **depending on the luminaire**.

Reference

EX X X XXX / XXXX
I I I I I
ESE I L W INTENSITY DATE
II B WWW
III DWC
--

L: Wall anchors W: Lens 60 °
B: Arm WWW: Lens 100 °
DWC: Road Lens

IP66

IK10
MÓDULO LED



RoHS

COLORES
RAL

MADE IN
SPAIN

5 AÑOS
GARANTIA
ESELED



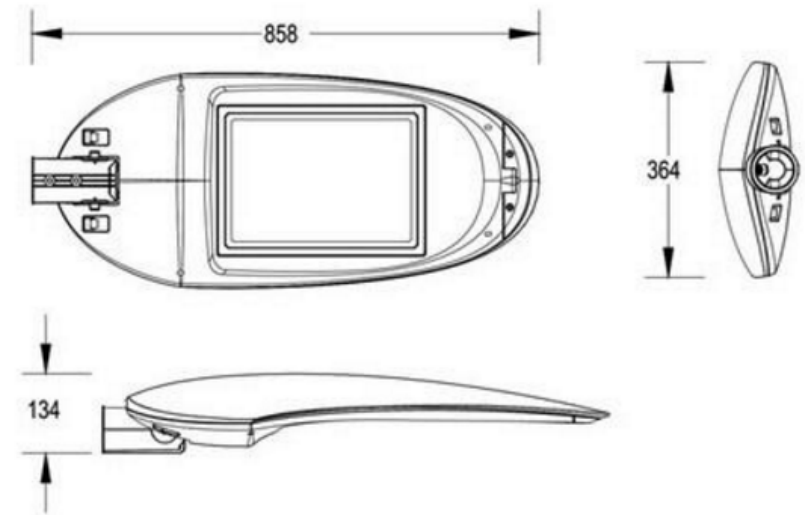
GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

CURVE

Luminaires with an elegant and practical curved design, incorporates a simple opening system that facilitates the maintenance, and is designed to achieve an optimum transfer of heat allowing the transverse air flow through its interior.



CURVE FAMILY



Features:

- **Optical protection type IP67.**
- **Aluminum injection body.**
- **IK10 in LED Module.**
- **Class II.**
- Standard colour temperature **4000K.**
- Under request **3000K and 6000K.**
- Availability of **twilight sensors and / or presence.**
- **Several mounting possibilities.**
- Working temperature from **-35 ° C up to 65 ° C.**
- Protection against surges of **10kV.**
- **Constant light output function (CLO).**

Optional Regulation:

- **Crepuscular and presence sensors.**
- **Touch control panel.**
- **Programmer and automatic control.**
- **Remote control**

Model	Leds	Width	Intensity		Real power*		Luminous flux		Efficiency	
	Uds	mm	mA		W		Lm		Lm/W	
CURVE I	12	858	500	700	18	25,2	2.511	3.314	139,5	131,5
CURVE II	24	858	500	700	36	50,4	5.022	6.628	139,5	131,5
CURVE III	36	858	500	700	54	75,6	7.533	9.941	139,5	131,5
CURVE IV	48	858	500	700	72	100,8	10.044	13.255	139,5	131,5

* The losses caused by the driver are not taken into account

Components and quality

Quality in every detail

DRIVER TRIDONIC

Driver designed and manufactured by Tridonic. Input voltage 198-264V AC. Constant output current up to 1050 mA. Flexible configuration and regulation via DALI, Ready2mains, U6Me2 and I-select2. Short circuit protection, Open circuit, overvoltages and Overheating, which incorporates A thermal protection system Which turns off the luminaire if it is reached A certain critical temperature (100 ° C). Includes protection against Overvoltages of up to 10 kV. Constant Light Output Funktion (CLO).

LED MODULE

12 led modules designed and manufactured in Spain. They have a quick connector for easy assembly and replacement. Module efficiency up to 170 lumen / W. Protected against electrostatic currents. The optical system is certified with IP67. The light levels of the luminaires can be customized by varying the number of led modules or adapting the performance by adjusting the current intensity to the desired value.

SEALING BOARD

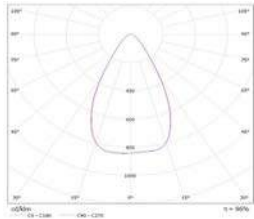
Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

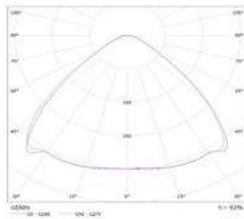
Extruded anodized aluminum profile designed to improve thermal management.

Available optics

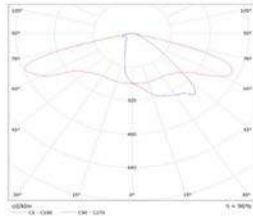
Lens of 60°



Lens of 100°



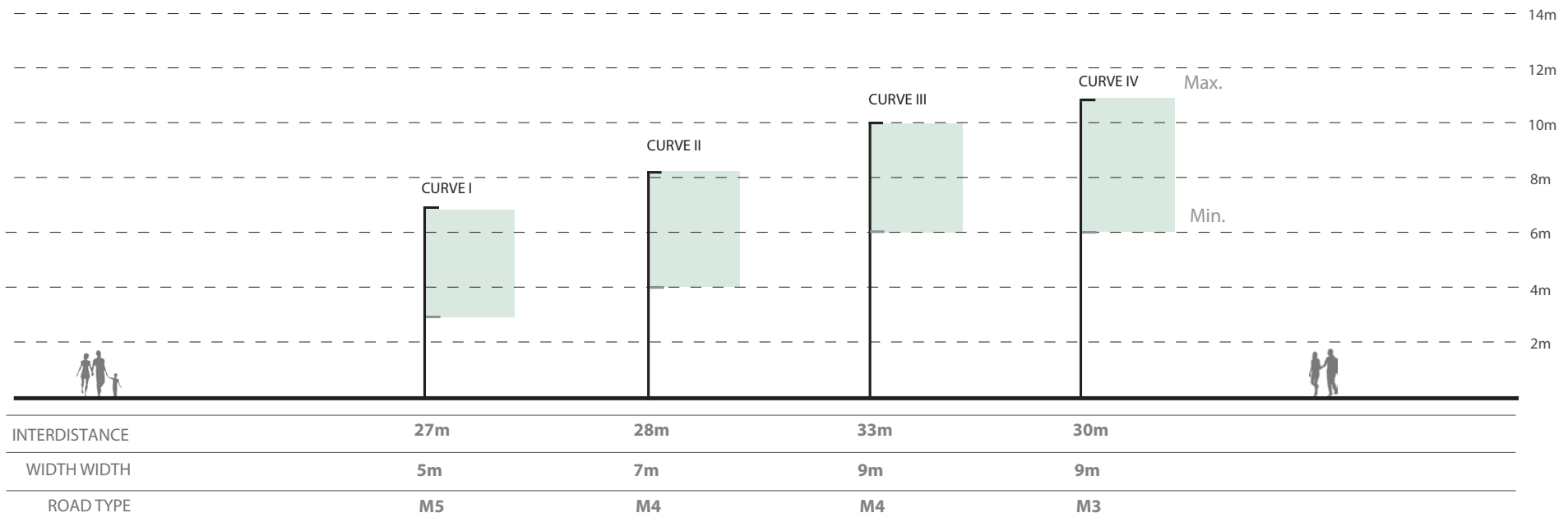
Road Lens



*More optical available under request.

Referential Location:

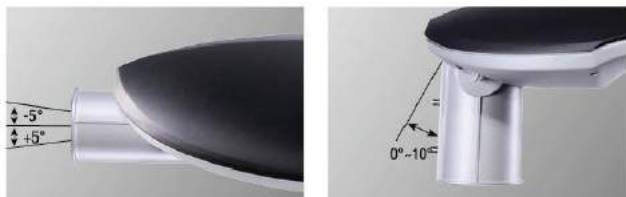
Reference for each model and power
Intensity 500 mA



Accessories

ARM

- Made of **injection aluminum**
- **Adaptable for attaching to commercial rods of diameter 50mm up to 60mm**
- Rotation up to 5° in horizontal and 10° in vertical.



OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- Up to a maximum of **20 kA of current and 20 kV** of maximum supported **voltage**.
- In accordance with the rules applicable to class II.
- **Various sizes available depending on the luminaire.**

Reference

CUX X XXX / XXXX

I I I I
CURVE W INTENSITY DATE
II WWW
III DWC
IV

W: Lens 60 °

WWW: Lens 100 °

DWC: Road Lens

IP66

IK10
MÓDULO LED



COLORES
RAL

MADE IN
SPAIN

5 AÑOS
GARANÍA
ESELED



GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

CASCAIS

Corrosion-resistant, extruded aluminum blade with a robust design, available in different finishes, anodized or lacquered, in any color in the RAL range, suitable for urban environments.



CASCAIS FAMILY

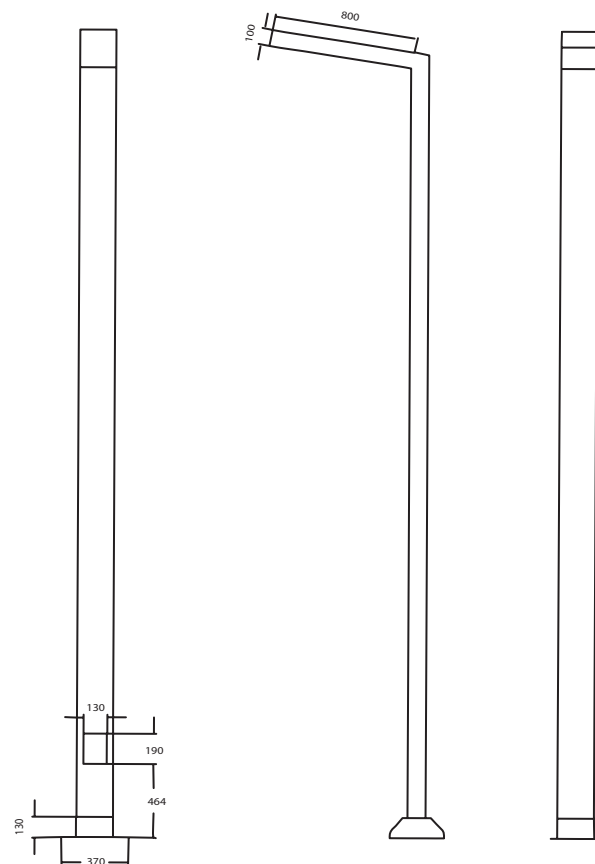


Features:

- Type of **IP67 optical protection**.
- **Extruded aluminum** body, **anodized finish**.
- **IK10 in LED module**.
- **Class II**.
- Covers available **in any colour of the RAL range on request**.
- Standard colour temperature **4000K**.
- Under request from **3000K and 6000K**.
- Availability of **twilight sensors and / or presence**.
- **Reinforced profile**.
- Available **in double arm**.
- Compatible **with brackets, standard attachments and attachments**.
- Working temperature from **-35 ° C up to 65 ° C**.
- Protection against surges of **10kV**.
- **Constant light output function (CLO)**.

Optional Regulation:

- **Crepuscular and presence sensors**.
- **Touch control** panel.
- **Programmer and automatic control**.
- **Remote control**



Model	Leds	Height **	Intensity		Real Power *		Luminous flux		Efficiency	
	Uds		mA	W	Lm	Lm/W				
CASCAIS I	12	6	500	700	18	25,2	2.511	3.314	139,5	131,5
CASCAIS II	24	6	500	700	36	50,4	5.022	6.628	139,5	131,5
CASCAIS IV	48	6	500	700	72	100,8	10.044	13.255	139,5	131,5

* The losses caused by the driver are not taken into account

** Different heights under request

Components and quality

Quality in every detail

DRIVER TRIDONIC

Driver designed and manufactured by Tridonic. Input voltage 198-264V AC. Constant output current up to 1050 mA. Flexible configuration and regulation via DALI, Ready2mains, U6Me2 and I-select2. Short circuit protection, Open circuit, overvoltages and Overheating, which incorporates A thermal protection system Which turns off the luminaire if it is reached A certain critical temperature (100 ° C). Includes protection against Overvoltages of up to 10 kV. Constant Light Output Funktion (CLO).

LED MODULE

12 led modules designed and manufactured in Spain. They have a quick connector for easy assembly and replacement. Module efficiency up to 170 lumen / W. Protected against electrostatic currents. The optical system is certified with IP67. The light levels of the luminaires can be customized by varying the number of led modules or adapting the performance by adjusting the current intensity to the desired value.

SUPPORT PLATE

Support of the power supply in FR4, synthesized from a glass fiber impregnated at high temperatures and pressure, with epoxy resin. This insulating material presents excellent mechanical and dielectric strength especially for humid and / or aggressive environments.

SEALING BOARD

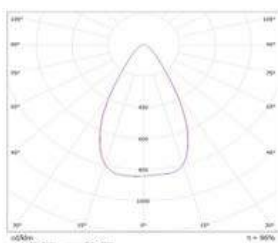
Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

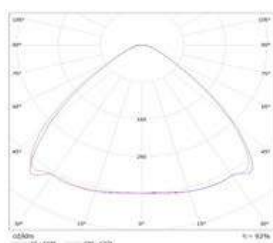
Extruded anodized aluminum profile designed to improve thermal management.

Available optics

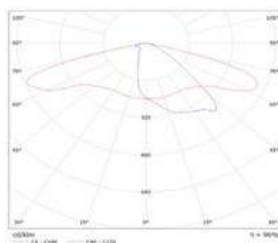
Lens of 60°



Lens of 100°



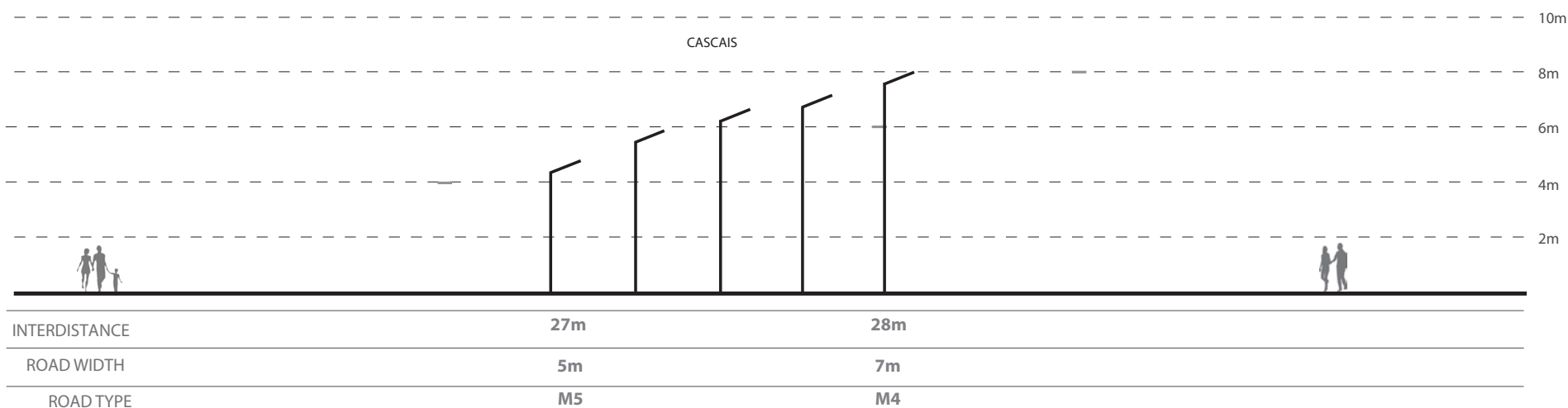
Road Lens



*More optical available under request.

Referential Location:

Reference for each model and power
Intensity 500 mA



OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- Up to a maximum of **20 kA of current and 20 kV** of maximum supported **voltage**.
- In accordance with the rules applicable to class II.
- **Various sizes** available **depending on the luminaire.**

Reference

CX X XXX / XXXX
II I W INTENSITY DATE
CASCAIS I W
II WWW
III DWC
IV

W: Lens 60°

WWW: Lens 100°

DWC: Road Lens

IP66

IK10
MÓDULO LED



RoHS

COLORES
RAL

MADE IN
SPAIN

5 AÑOS
GARANTIA
ESELED



GRUPO SERING

Tecno
CeRT

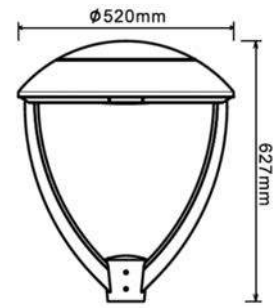
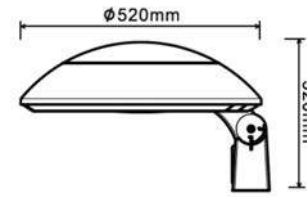
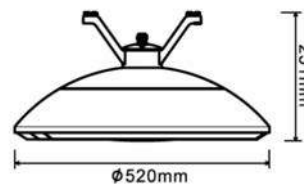
LABORATORIO ACREDITADO ENAC

MYA

Luminaire available with multiple moorings, elegant and practical, available and designed to fit anywhere, is designed to achieve optimal transfer of heat thanks to the multiple fins incorporated on the inside.



MYA FAMILY



Features:

- Type of **IP67 optical protection**.
- **Extruded aluminum** body, **anodized** finish.
- **IK10** in LED module.
- **Class II**.
- **Stainless steel** screws.
- Standard colour temperature **4000K**.
- Under request from **3000K** and **6000K**.
- Availability of **twilight sensors** and / or **presence**.
- **Several mounting possibilities**.
- Working temperature from **-35 ° C** up to **65 ° C**.
- Protection against surges of **10kV**.
- **Constant light output function (CLO)**.

Optional Regulation:

- **Crepuscular and presence sensors**.
- **Touch control** panel.
- **Programmer and automatic control**.
- **Remote control**

Modelo	Leds		Intensity		Real power *		Luminous flux		Efficiency	
	Uds	mA	W	W	Lm	Lm/W	Lm/W	Lm/W		
MYA I	12	500	700	18	25,2	2.511	3.314	139,5	131,5	
MYA II	24	500	700	36	50,4	5.022	6.628	139,5	131,5	
MYA III	36	500	700	54	75,6	7.533	9.941	139,5	131,5	

* The losses caused by the driver are not taken into account

Components and quality

Quality in every detail

DRIVER TRIDONIC

Driver designed and manufactured by Tridonic. Input voltage 198-264V AC. Constant output current up to 1050 mA. Flexible configuration and regulation via DALI, Ready2mains, U6Me2 and I-select2. Short circuit protection, Open circuit, overvoltages and Overheating, which incorporates A thermal protection system Which turns off the luminaire if it is reached A certain critical temperature (100 ° C). Includes protection against Overvoltages of up to 10 kV. Constant Light Output Funktion (CLO).

LED MODULE

12 led modules designed and manufactured in Spain. They have a quick connector for easy assembly and replacement. Module efficiency up to 170 lumen / W. Protected against electrostatic currents. The optical system is certified with IP67. The light levels of the luminaires can be customized by varying the number of led modules or adapting the performance by adjusting the current intensity to the desired value.

SEALING BOARD

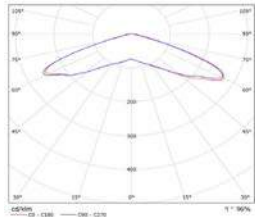
Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

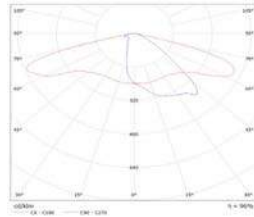
Extruded anodized aluminum profile designed to improve thermal management.

Available optics

Lens of 360°



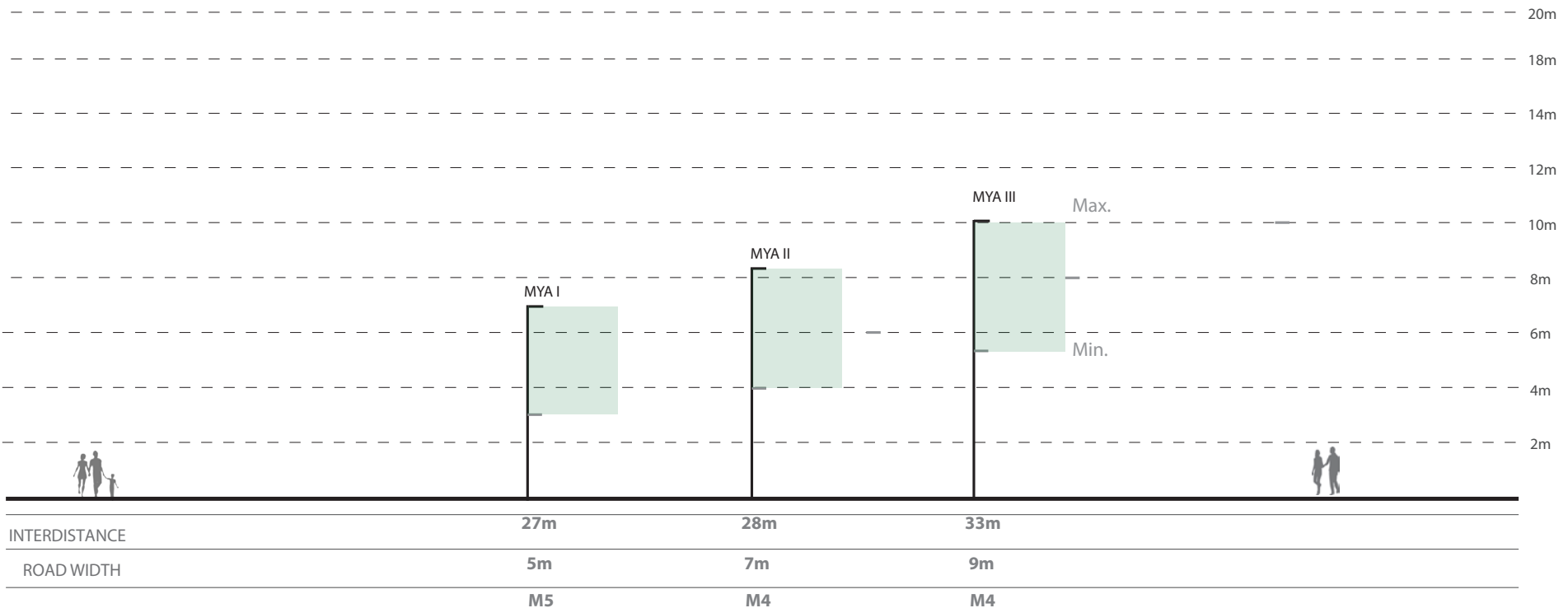
Road Lens



More optics available on request.

Reference location:

Reference for each model and power
Intensity 500 mA



Multiple possibilities



OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- **Up to a maximum of 20 kA of current and 20 kV of maximum supported voltage.**
- **In accordance with the rules applicable to class II.**
- **Various sizes available depending on the luminaire.**

Reference

MX X X XXX / XXXX
| | | | |
MYA I A
II B
III C
D
VSM DWK INTENSITY DATE

DWC: Road Lens

VSM: Lens 360°

IP66

IK10
MÓDULO LED



RoHS

COLORES
RAL

MADE IN
SPAIN

5 AÑOS
GARANÍA
ESELED



GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

BULCO

Light bulb incorporating a very high performance led LG G4, available in two sizes and different powers, designed to facilitate its maintenance.





Features:

- **IP65.**
- **High Efficiency Led LG G4, up to 140 lm/w**
- **Class II.**
- Lamp life > **50.000 h.**
- Aviation **aluminum 6063.**
- Power factor > **0,95.**
- Voltage range **100- 277 V AC.**
- Under request of **3000K and 6000K.**
- **Integrated Driver.**
- **Opening angle 360 °.**
- **Shell E27 or E40.**
- Designed to facilitate **thermal transmission**
- **Separate LED and driver for easy maintenance.**
- **Protection of the base for sending.**
- **High temperature range -40 °C up to 60 °C.**
- Overvoltage protection **10kV.**

OVERVOLTAGE MODULE

- **Extra protection against surges for the 10KV that already incorporates the driver.**
- Up to a maximum of **20 kA of current and 20 kV** of maximum supported **voltage.**
- In accordance with the rules applicable to class II.
- **Various sizes available depending on the luminaire.**

Model	Length	Real power	Luminous flux	Efficiency
	mm	W	wLm	Lm/W
BULCO POWER I	228	36	4.860	140
BULCO POWER II	258	45	6.075	140
BULCO POWER III	258	54	7.290	140

VILLESE



Luminaires with 360° distribution of luminous intensity. Its design is sober and simple, ideal for park lighting, squares and pedestrian zones. Its glass diffuser avoids direct glare and provides great light uniformity for a elevated visual control.

FERESE

Luminaires with 360 ° light distribution of intensity. Due to their elegant design, they are ideal for park, squares, pedestrian zones and other urban lighting areas. Its glass diffuser avoids direct glare and provides great light uniformity for high visual comfort.

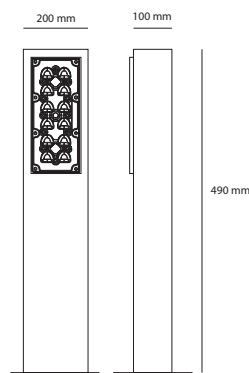


BEACONS FAMILY

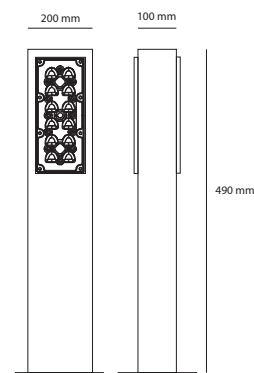
MARINOX FAMILY



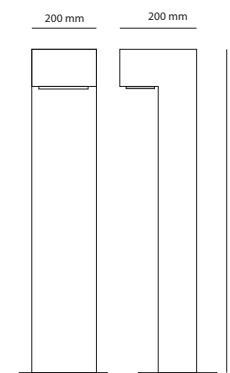
MARINOX



MARINOX DUO



MARINOX L90



Features:

- **Optical protection** Type IP67.
- **Driver protection** Type IP65.
- **316 stainless steel beacon.**
- **IK10** LED module.
- **Class II.**
- **SELV.**
- Under request: **CRI 90.**
- Under request between **3000K & 6000K.**
- **Possibility of regulation.**
- **IP68 Conector .**
- **Tridonic Driver with multitude of functions and regulation curve.**
- **Constant light output function (CLO).**

Model	Length	Intensity	Power *	Luminous flux	Efficiency
	mm	mA	W	Lm	Lm/W
MARINOX	490	390	14	2.016	144
MARINOX DUO	490	390	28	4.032	144
MARINOX L90I	300	390	14	2.016	144
MARINOX L90II	500	390	14	2.016	144

* The losses caused by the driver are not taken into account

Reference

MA X / XXXX



IP66

IK10
MÓDULO LED



RoHS

SELV

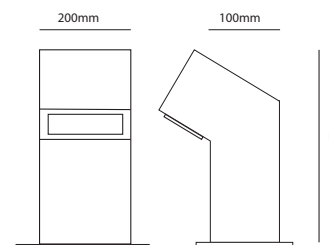
MADE IN
SPAIN

5 AÑOS
GARANTIA
ESELED



GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

NERO BEACON



Features:

- **Optical protection Type IP67.**
- **Driver protection Type IP65.**
- **Lacquered aluminum beacon.**
- **IK10** LED module.
- **Class II.**
- **SELV.**
- Under request: **CRI 90.**
- Under request between **3000K & 6000K.**
- **Possibility of regulation.**
- **IP68 Conector**
- **Tridonic Driver with multitude of functions and regulation curve.**
- **Constant light output function (CLO).**

Model	Length	Intensity	Power *	Luminous flux	Efficiency
	mm	mA	W	Lm	Lm/W
NERO I	300	390	14	2.016	144
NERO II	500	390	14	2.016	144

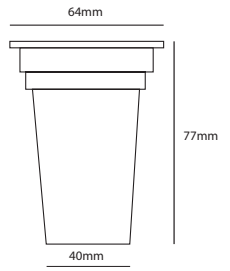
* The losses caused by the driver are not taken into account.

Reference

N X / XXXX
 I I I
NERO I DATE
II



POWER BEACON



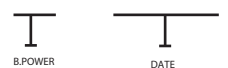
Features:

- Protection type **IP67**.
- Recessed stainless steel beacon.
- **IK08**.
- **Class II**.
- **CRI 80**.
- **Light opening** angle 15 °.
- Colour temperature **3000K**.
- **Not compatible with other lenses**
- **64 mm diameter**.

Model	Light Aperture	Intensity	Power	Luminous flux	Efficiency
	°	mA	W	Lm	Lm/W
POWER I	15	390	1	90	90

Reference

BP / XXXX



IP67

IK08



RoHS

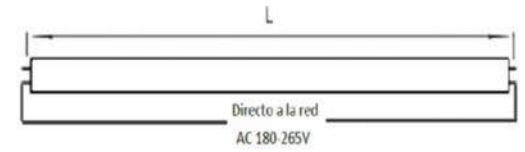
MADE IN SPAIN



GRUPO SERING
Tecno
 CeRT
 LABORATORIO ACREDITADO ENAC

TUBE FAMILY

EC TUBE



Features:

- **IP20.**
- **Class II.**
- Lamp life > **50.000 h.**
- Power factor > **0,95.**
- Voltage range **185- 264 V AC.**
- Under request of **3000K, 4000K and 6000K.**
- **Temperature range from -20 °C to 75 °C.**
- **Integrated Driver.**
- **Diffuser available in opal.**
- **Rotary shell G13 of 360 °.**

Model	Length	Aperture	Power	Real luminous flux	Efficiency
	cm	°	W	Lm	Lm/W
T8 EC 60	60	120	9	855	95
T8 EC 120	120	120	18	1.710	95
T8 EC 150	150	120	23	2.185	95
T8 EC 60 OPAL	60	160	9	720	80
T8 EC 120 OPAL	120	160	18	1.440	80
T8 EC 150 OPAL	150	160	23	1.840	80

IP 20

No DIMABLE



RoHS

**3 años
Garantía
ESELED**

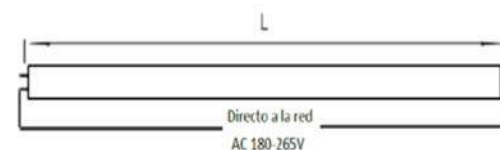


Tecno
CeRT
LABORATORIO ACREDITADO ENAC

**Reference
ECX XXXXX**

EC 60 T DATE
120 150 O

POWER TUBE



Features:

- **IP20.**
- **Class II.**
- Lamp life > **50.000 h.**
- Power factor > **0,95.**
- Voltage range **185- 264 V AC,**
- Available in **5000K,** on demand between **3000K** and **6000K.**
- **Temperature range from -30 °C to 40 °C.**
- **Integrated Driver.**
- **Difuser available in opal.**
- **Rotary shell G13 of 360 °.**

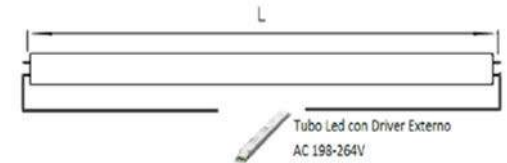
Available in extreme environments version:

- **Adjustable option.**
- **Class II.**
- Lamp life > **100.000 h.**
- Temperature range from **-40 °C to 70 °C**
- Warranty up to **8 years.**

Model	Length	Aperture	Real power	Luminous flux	Efficiency
V1	cm	°	W	Lm	Lm/W
T8 POWER 60	60	120	8	1.040	130
T8 POWER 90	90	120	12	1.560	130
T8 POWER 120	120	120	16	2.080	130
T8 POWER 150	150	120	20	2.600	130
T8 POWER 60 SATIN	60	140	8	920	115
T8 POWER 90 SATIN	90	140	12	1.380	115
T8 POWER 120 SATIN	120	140	16	1.840	115
T8 POWER 150 SATIN	150	140	20	2.300	115
T8 POWER 60 OPAL	60	160	8	800	100
T8 POWER 90 OPAL	90	160	12	1.200	100
T8 POWER 120 OPAL	120	160	16	1.600	100
T8 POWER 150 OPAL	150	160	20	2.000	100

Modelo	Longitud	Apertura	Potencia real	Flujo luminoso	Eficacia
V2	cm	°	W	Lm	Lm/W
T8 POWER 60	60	120	12	1.440	130
T8 POWER 90	90	120	18	2.160	130
T8 POWER 120	120	120	24	2.880	130
T8 POWER 150	150	120	30	3.600	130
T8 POWER 60 SATIN	60	140	12	920	115
T8 POWER 90 SATIN	90	140	18	1.380	115
T8 POWER 120 SATIN	120	140	24	1.840	115
T8 POWER 150 SATIN	150	140	30	2.300	115
T8 POWER 60 OPAL	60	160	12	800	100
T8 POWER 90 OPAL	90	160	18	1.200	100
T8 POWER 120 OPAL	120	160	24	1.600	100
T8 POWER 150 OPAL	150	160	30	2.000	100

POWERFULL TUBE



Features:

- **IP20.**
- **Class II.**
- Lamp life > **50.000 h.**
- Power factor > **0,95.**
- Voltage range **198- 264 V AC.**
- Under request from **3000K and 6000K.**
- **Temperature range from -25 °C to 55 °C.**
- **External Driver.**
- **Difusor available in opal, satin and transparent.**
- **Rotary shell G13 of 360 °.**

Available in extreme environments version:

- **Adjustable option.**
- **Class II.**
- Lamp life > **100.000 h.**
- Temperature range from **-40 °C to 70 °C**
- Warranty up to **8 years.**

Model	Length	Aperture	Real power	Luminous flux	Efficiency
	cm	°	W	Lm	Lm/W
T8 POWERFULL 60	60	120	14	1.890	135
T8 POWERFULL 90	90	120	20	2.700	135
T8 POWERFULL 120	120	120	28	2.080	135
T8 POWERFULL 150	150	120	34	2.600	15
T8 POWERFULL 60 SATIN	60	140	14	1.680	120
T8 POWERFULL90 SATIN	90	140	20	2.400	120
T8 POWERFULL120 SATIN	120	140	28	3.360	120
T8 POWERFULL150 SATIN	150	140	34	4.080	120
T8 POWERFULL 60 OPAL	60	160	14	1.470	105
T8 POWERFULL 90 OPAL	90	160	20	2.100	105
T8 POWERFULL 120 OPAL	120	160	28	2.940	105
T8 POWERFULL 150 OPAL	150	160	34	3.570	105

Reference

PF X X XXXX
I I I I
POWER 60 T DATE
90 0 S



WATERPROOF SCREEN



Features:

- **Configurable for any tube.**
- **Incorporated LED Tubes.**
- **Easy installation.**
- Compatible with emergency **kit**.
- Possibility of incorporating **presence sensor**.
- **Polycarbonate diffuser.**

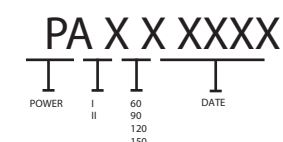
Available with optional emergency kit.

- Automatic smart battery charge control.
- Battery charge **LED** indicator.
- Autonomy up to **2h**
- **Function check** button.

The following table is configured **for power tubes**:

Model	Length	Aperture	Real power	Luminous flux	Efficiency
	cm	°	W	Lm	Lm/W
WATERPROOF SCREEN 60	60	120	8	1080	135
WATERPROOF SCREEN 90	90	120	12	1.612	135
WATERPROOF SCREEN 120	120	120	16	2.160	135
WATERPROOF SCREEN 150	150	120	20	2.700	135
WATERPROOF SCREEN 2x60	60	120	16	1.920	120
WATERPROOF SCREEN 2x90	90	120	24	2.880	120
WATERPROOF SCREEN 2x120	120	120	32	3.840	120
WATERPROOF SCREEN 2x150	150	120	40	4.800	120

Reference



IP65

IK10



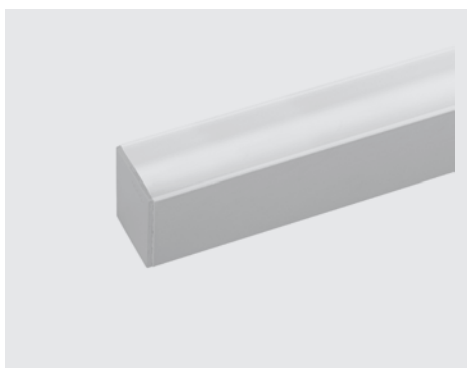
MADE IN SPAIN



GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

OFFICE FAMILY

LINEAR SCREEN

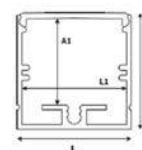


Narrow profile

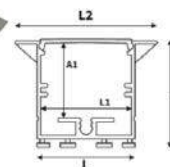


Wide profile

A= 30 mm
L= 30 mm
A1= 21 mm
L1= 27 mm

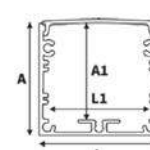


A= 35 mm
L= 33 mm
A1= 22 mm
L1= 27 mm
L2= 45 mm

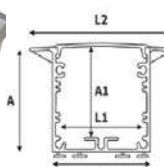


Narrow profile

A= 46 mm
L= 49 mm
A1= 40 mm
L1= 46 mm



A= 50 mm
L= 52 mm
A1= 40 mm
L1= 46 mm
L2= 73 mm



Wide profile

Features:

- Protection type IP20.
- Class II.
- Lamp life > 50.000 h.
- Power factor > 0,95.
- Voltage range 198 - 264V AC.
- Gray aluminum colour.
- Opening light angle 15 °.
- Under request between 3000K & 6000K.
- External driver.

Model	Light Aperture	Length	Power	Luminous fl	Efficiency
	°	cm	W	Lm	Lm/W
LINEAR SCREEN 56	160	56	14	980	70
LINEAR SCREEN 86	160	86	22	1.540	70
LINEAR SCREEN 111	160	111	28	1.960	70
LINEAR SCREEN 141	160	141	36	2.520	70
LINEAR SCREEN 278	160	278	72	5.040	70

Reference

PL X / XXXX
PLINEAL
56
86
111
141
278
DATE

IP66

IK08

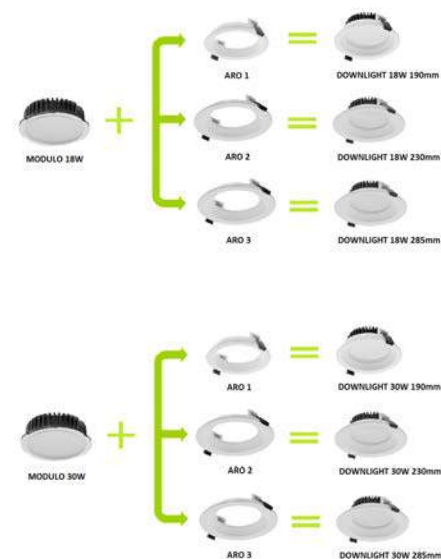
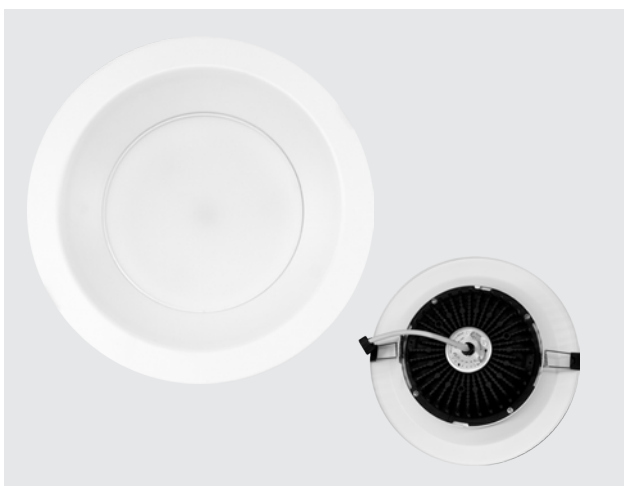


MADE IN SPAIN



GRUPO SERING
Tecno
CERT
LABORATORIO ACREDITADO ENAC

DOWNLIGHT POWER



Features:

- **IP 20.**
- **Class II.**
- **Samsung LED.**
- **Quick conector.**
- Power factor > **0,98.**
- Voltage range: **180 - 265 VAC.**
- Standard colour temperature **4000K.**
- Under request between **3000 & 6000K.**
- **External driver.**
- **Aluminum heatsink.**
- **Opal finishing.**
- **Interchangeable rings.**
- **Adaptable** to any cut measure.
- Lacquered ring **white or silver.**

Model	Light Aperture	Diameter	Power	Luminous flux	Efficiency
	°	mm	W	Lm	Lm/W
DOWNLIGHT18D190	140	190	18	2.160	120
DOWNLIGHT18D230	140	230	18	2.160	120
DOWNLIGHT18D285	140	285	18	2.160	120
DOWNLIGHT30D190	140	190	30	3.600	120
DOWNLIGHT30D230	140	230	30	3.600	120
DOWNLIGHT30D285	140	285	30	3.600	120

Reference

$\frac{D}{I} \frac{XX}{I} / \frac{XXXX}{I}$
DOWNLIGHT 18 190 230 285 DATE

IP67

IK08

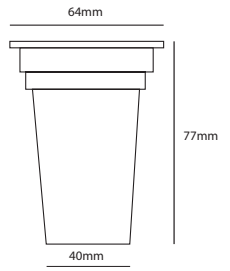


MADE IN SPAIN



GRUPO SERING
Tecno
 CeRT
LABORATORIO ACREDITADO ENAC

DICROICA POWER



Features:

- Protection type **IP20.**
- **Class II.**
- Power factor > **0,90.**
- Lamp life > **50.000 h.**
- Voltage range: **90 - 260V AC.**
- Light opening angle **60°.**
- Colour temperature from **3000K to 6000K.**
- **Integrated driver**
- **GU10 Shell.**

Modelo	Light Aperture	Power	Luminous flux	Efficiency
	°	W	Lm	Lm/W
DICROICA POWER	60	7	630	90

IP 20

No DIMABLE



RoHS

2 años
Garantía
ESELED



GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

Reference

DI / XXXX
I I
DICROICA POWER DATE

POWER LAMP



Features:

- Protection type IP21.
- Class II.
- Power factor > 0,90.
- Lamp life > 50.000 h.
- Voltage range: 90 - 260V AC.
- Light opening angle 360°.
- Colour temperature from 3000K to 6000K.
- Integrated driver
- E27 Shell.

Model	Light aperture	Power	Luminous flux	Efficiency
	°	W	Lm	Lm/W
POWER LAMP 7	360	7	630	90
POWER LAMP 10	360	10	900	90
POWER LAMP 12	360	12	1.080	90

IP 21

No DIMABLE



RoHS

2 años
Garantía
ESELED

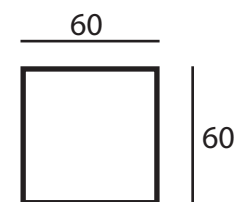
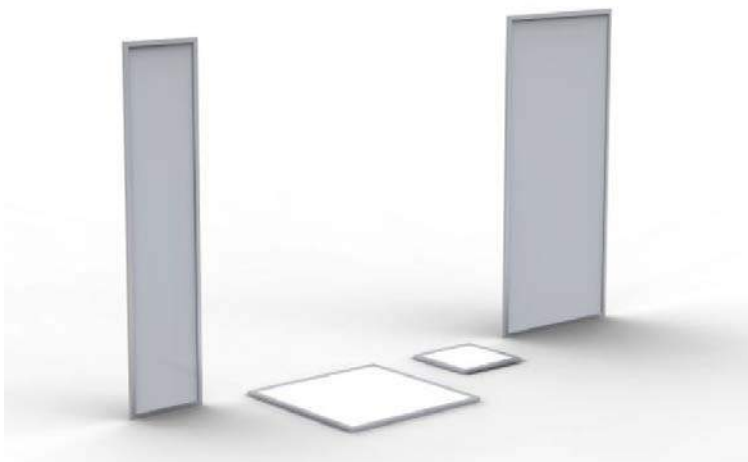


GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

Reference

B X / XXXX
I I I
LAMP POWER 7 10 12 DATE

LED PANEL



Features:

- Protection type **IP 40.**
- **Nominal lamp life 50.000h**
- **Class II.**
- **CRI > 0.80.**
- Opening light angle 120 °.
- Voltage range **85-265 V AC.**
- Colour temperature available **4000K.**
- Colour temperature under request **3000K y 6000K.**
- **Temperature range from -30°C to 50°C.**

Model	Light aperture	Power	Luminous flux	Efficiency
	°	W	Lm	Lm/W
PANEL 60x60	120	36	4.320	120

Reference

P X / XXXX
 I I I
PANEL LED 60 DATE

IP 40

No DIMABLE



RoHS

MADE IN SPAIN

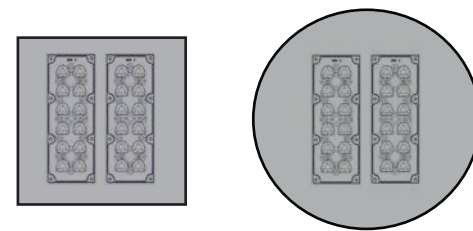
5 AÑOS
GARANTIA ESELED

GRUPO SERING
CE **Tecno**
CERT
LABORATORIO ACREDITADO ENAC

RETROFIT

What is it?

A lighting system when in search of a correct balance between the benefits of new lighting technologies and the use of previous resources, resulting in considerable savings in its implementation.



Features:

- Adaptable to almost **any** type of previous installation.
- Leds efficiency up to **170 Lumen/W.**
- Waterproof optical **IP67.**
- LED protection **IK10.**
- Multiple photometric distributions thanks to different **optical combinations.**
- **10KV** overload protection.
- **Class II.**
- Ultimate efficiency of the module, counting the losses produced by the drivers up to **130 Lumen/W.**
- Plates made of **anodized aluminum or lacquered** in any RAL range colour.
- **Adjustable to different sizes and measures by laser cutting.**
- Can incorporate light and/or presence sensors that further optimize energy expenditure, and increase LED lifetime.

Applications:

- Urban lighting.
- Exterior and interior lighting
- Projectors

Specialty:

- Gas stations and public lighting

Model	Leds		Intensity		Power *		Luminous flux		Efficiency	
	Uds		mA		W		Lm		Lm/W	
SFIT I	12		500	700	18	25,2	2.511	3.314	139,5	131,5
SFIT II	24		500	700	36	50,4	5.022	6.628	139,5	131,5
SFIT III	36		500	700	54	75,6	7.533	9.941	139,5	131,5
SFIT IV	48		500	700	72	100,8	10.044	13.255	139,5	131,5
SFIT V	60		500	700	190	126	12.555	16.569	139,5	131,5
SFIT VI	72		500	700	108	151,2	15.066	19.883	139,5	131,5

* The losses caused by the driver are not taken into account

Reference

R X X XXX / XXXX
 RETROFIT I DWV VSM INTENSITY DATE
 II W
 III WWW
 -

STANDARDS AND CERTIFICATIONS

CE CERTIFICATION

This certification confirms that the product conforms to European directives, ensuring that the product can be sold to any member of the European Union. All luminaries in this catalog have been designed according to EN 60598 standards

Tecno Cert

The accreditation laboratory (Sering Group) is responsible for accrediting the certification, environmental verifiers, inspection entities and testing entities.

ISO 9001: 2008

ISO 9001 serves to certify the ability to create products that meet our customers demand.

ISO 14001:2004

It means that in ESELED tests are carried out to verify the impact of our activities on the environment.

ISO 50001:2011

With the 50001, ESELED is committed to a continuous improvement of energy management at all levels.

PROTECTION LEVEL

Insulation class

Classification of products according to protection against electric shock.

Class I

This level of protection is not only based on the main insulation, but also on additional safety systems composed of the union of all earth accessible parts.

Class II

In this equipment (with double insulation) the design is such that grounding is not necessary.

Class III

This type of equipment has protection against electric shocks based on the fact that there will be no voltage that can exceed the minimum safety established.

IP Protection

Defined by the international standards IEC 60529, the IP code classifies the level of protection against the entry of solid objects, dust, accidental contacts and also against water and liquid infiltration.

SOLID OBJECTS PROTECTION

IP 0 _

No protection against the entry of solid objects.

IP 1 _

Protection against solid objects of more than 50 mm, e.g. Accidentally touched by a person's hand.

IP 2 _

Protection against solid objects of more than 12.5 mm, e.g. Person's finger.

IP 3 _

Protection against solid objects of more than 2.5 mm. (Tools)

IP 4 _

Protection against solid objects of more than 1 mm (cables)

IP 5 _

Protection against ingress of dust and individual cables.

IP 6 _

Fully protected from dust and individual cables

LIQUID OBJECTS PROTECTION

IP _0

No protection

IP _1

Fall drop protection

IP _2

Protection against drops with deviation angle of 15 ° on the vertical

IP _3

Protection against rainwater.

IP _4

Protection against water spray.

IP _5

Protection against pressure jets.

IP _6

Protection against waves.

IP _7

Possible immersion.

IP _8

Possible submersion.

IK Protection

The IK code belongs to the European standard EN 62262.

It is an international code that regulates the degree of protection against the entry of objects that impact the surface.

IK01

Resistance to mechanical impact (0,14 Julios)

IK02

Resistance to mechanical impact (0,2 Julios)

IK03

Resistance to mechanical impact (0,35 Julios)

IK04

Resistance to mechanical impact (0,5 Julios)

IK05

Resistance to mechanical impact (0,7 Julios)

IK06

Resistance to mechanical impact (1 Julio)

IK07

Resistance to mechanical impact (2 Julios)

IK08

Resistance to mechanical impact (5 Julios)

IK09

Resistance to mechanical impact (10 Julios)

IK10

Resistance to mechanical impact (20 Julios)

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