



2017 General Catalog

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



ESELED - Company

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

CUSTOMERS & ASSOCIATES



Costumers & 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.

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.

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.

Therefore, all of our products are entirely national.

Own Solutions

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

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



RETROFIT

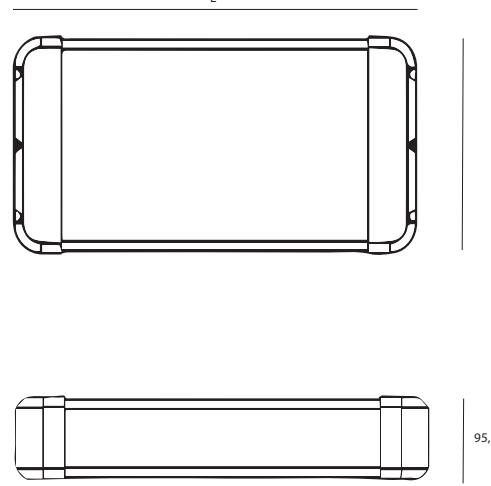


INDUSTRIAL FAMILY



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.





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 55 °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		Eficiency	
	Uds	Kg	mm	mA		W		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

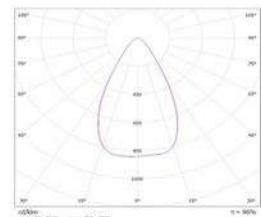
Extruded anodized aluminum profile designed to improve thermal management.

COMPENSATOR

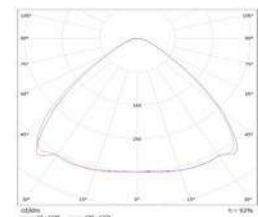
Pressure compensator IP68 to prevent condensation inside the luminaire.

Available optics

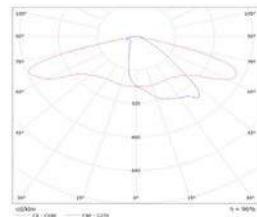
Lens of 60°



Lens of 100°



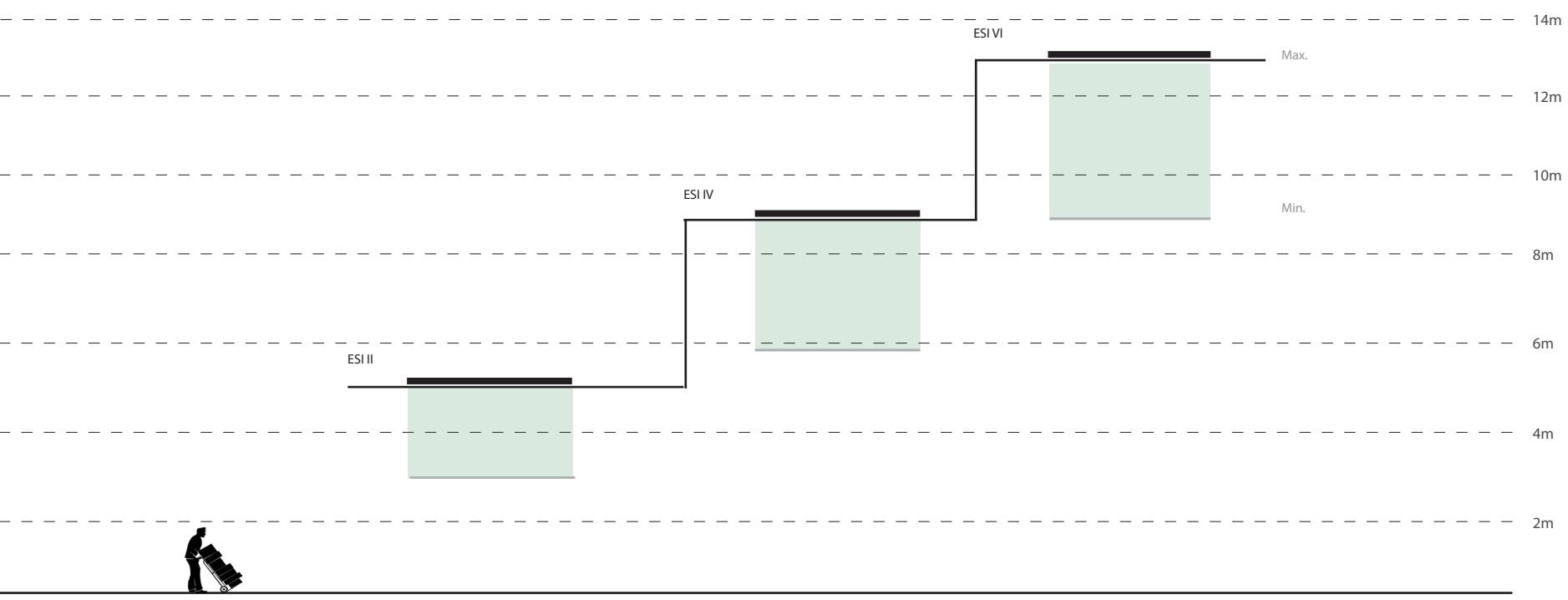
Road Lens



*More optics available under request.

Referential Location:

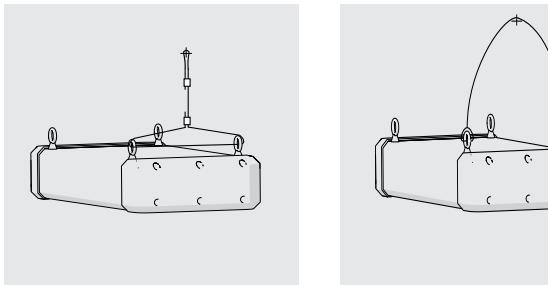
Reference for each model and power
Intensity 500 mA



Possibilities:

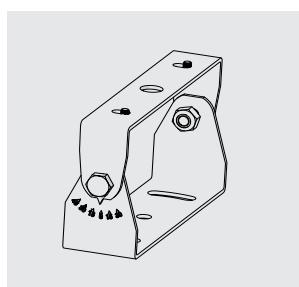
Hanged

- 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**.

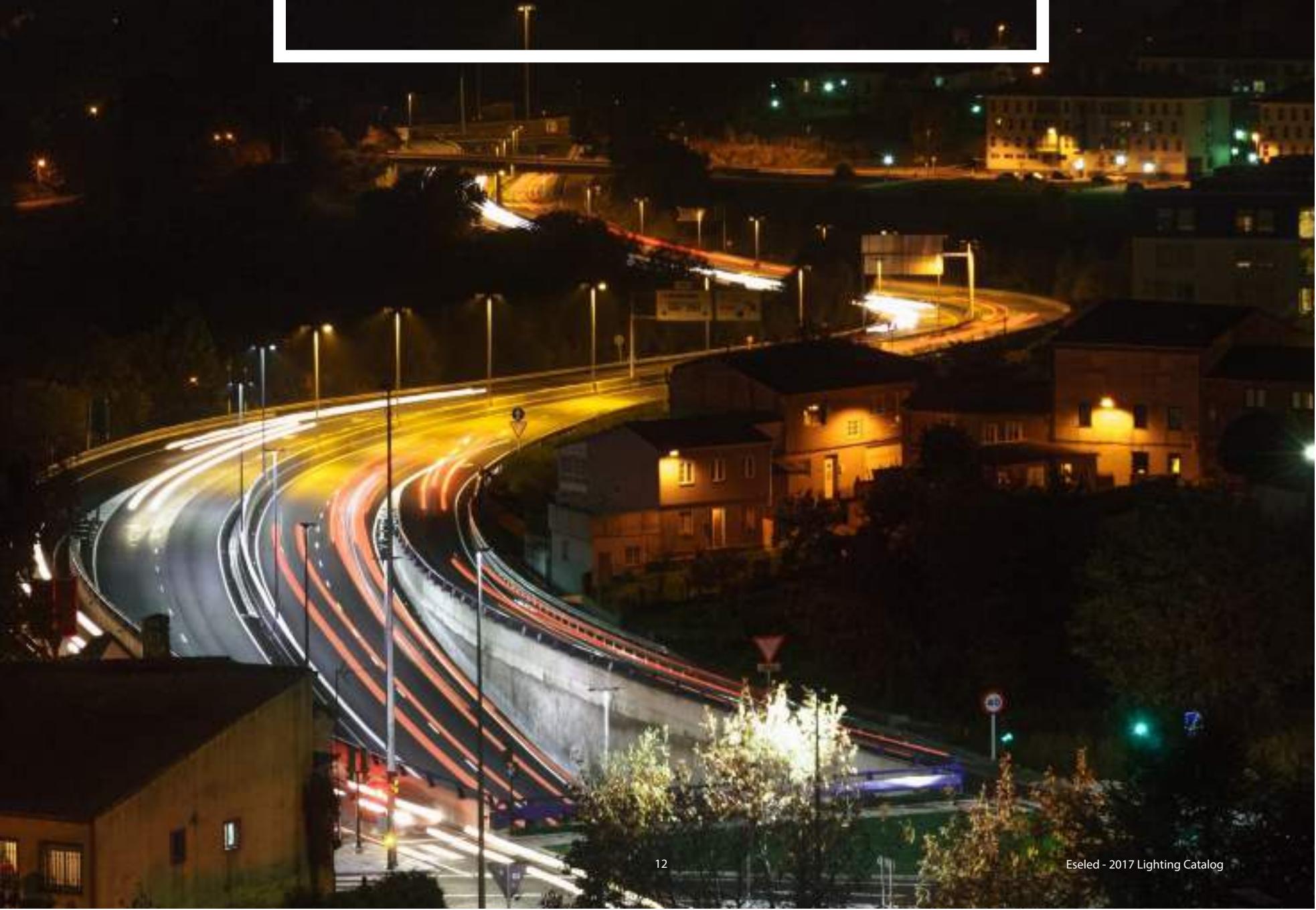
Reference

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

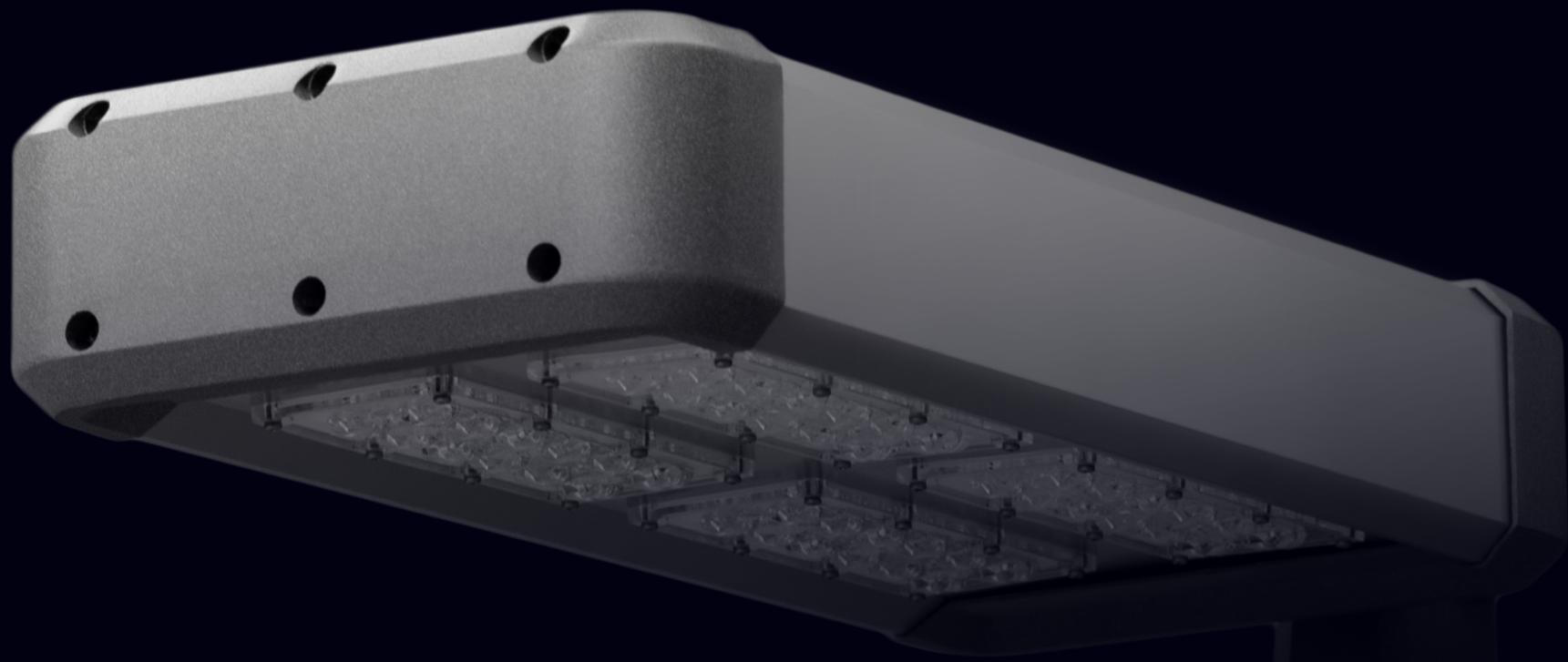
L: Wall Anchorage W: Lens 60 °
C: Hanged WWW: Lens 100 °
DATE
O: Shelving lens



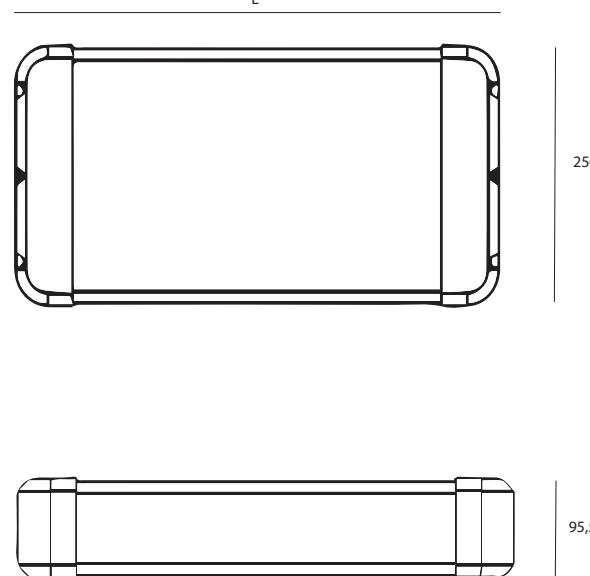
STREET LIGHT FAMILY



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 55 ° 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
ESE 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

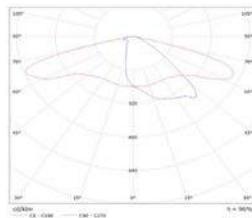
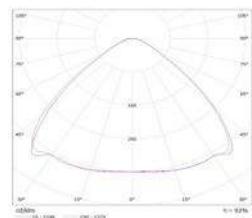
Pressure compensator IP68 to prevent condensation inside the luminaire.

Available optics

Lens of 60°

Lens of 100°

Road Lens

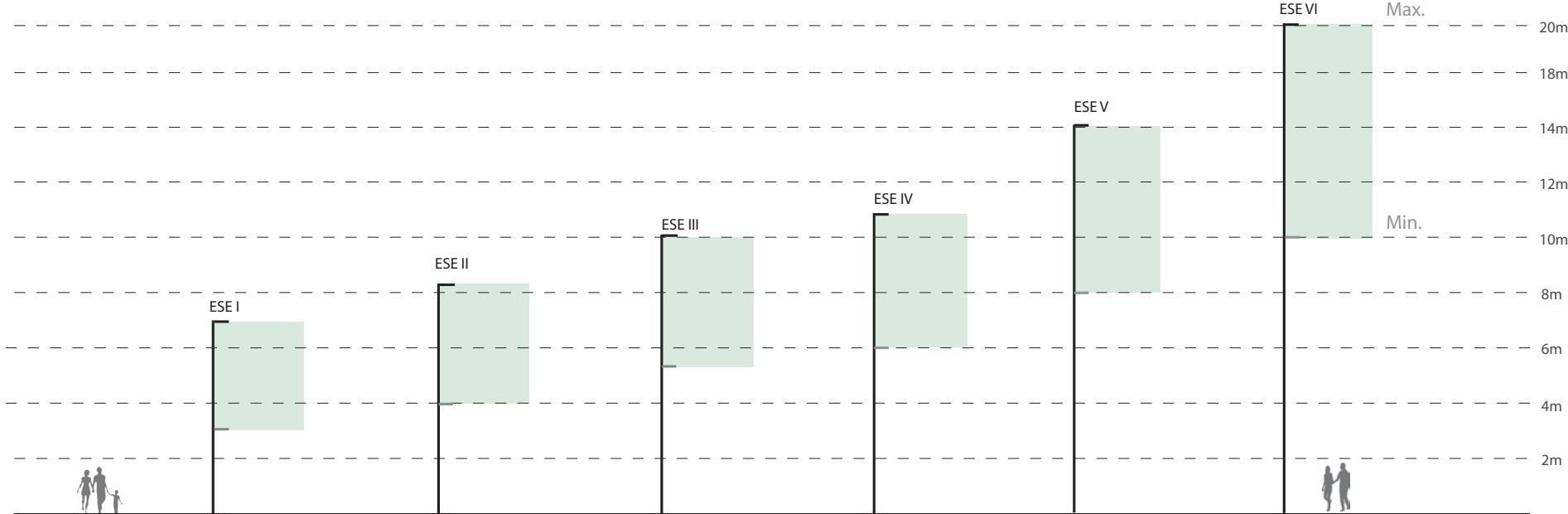


*More optical available under request.

Referential Location:

Reference for each model and power

Intensity 500 mA

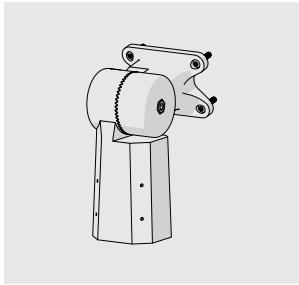


INTERDISTANCE	27m	28m	33m	30m	33m	SPECIFIC
ROAD WIDTH	5m	7m	9m	9m	9m	SPECIFIC
ROAD TYPE	M5	M4	M4	M3	M3	SPECIFIC

Accessories

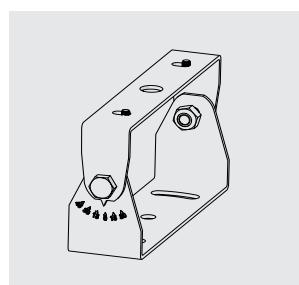
Arm

- 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
II I I W WWW
ESE L B INTENSITY
III DWC DATE

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



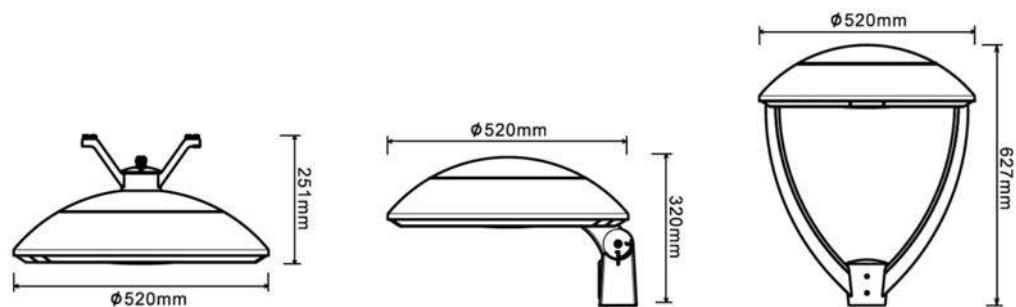
GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

MYA



Luminaires 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		Eficiency	
	Uds	mA		W		Lm		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.

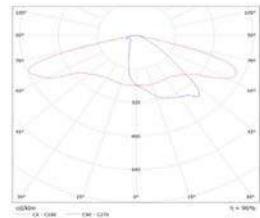
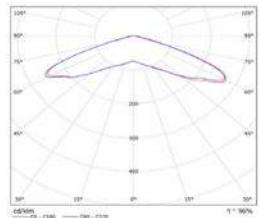
ALUMINUM PROFILE

Extruded anodized aluminum profile designed to improve thermal management.

Available optics

Lens of 360°

Road Lens

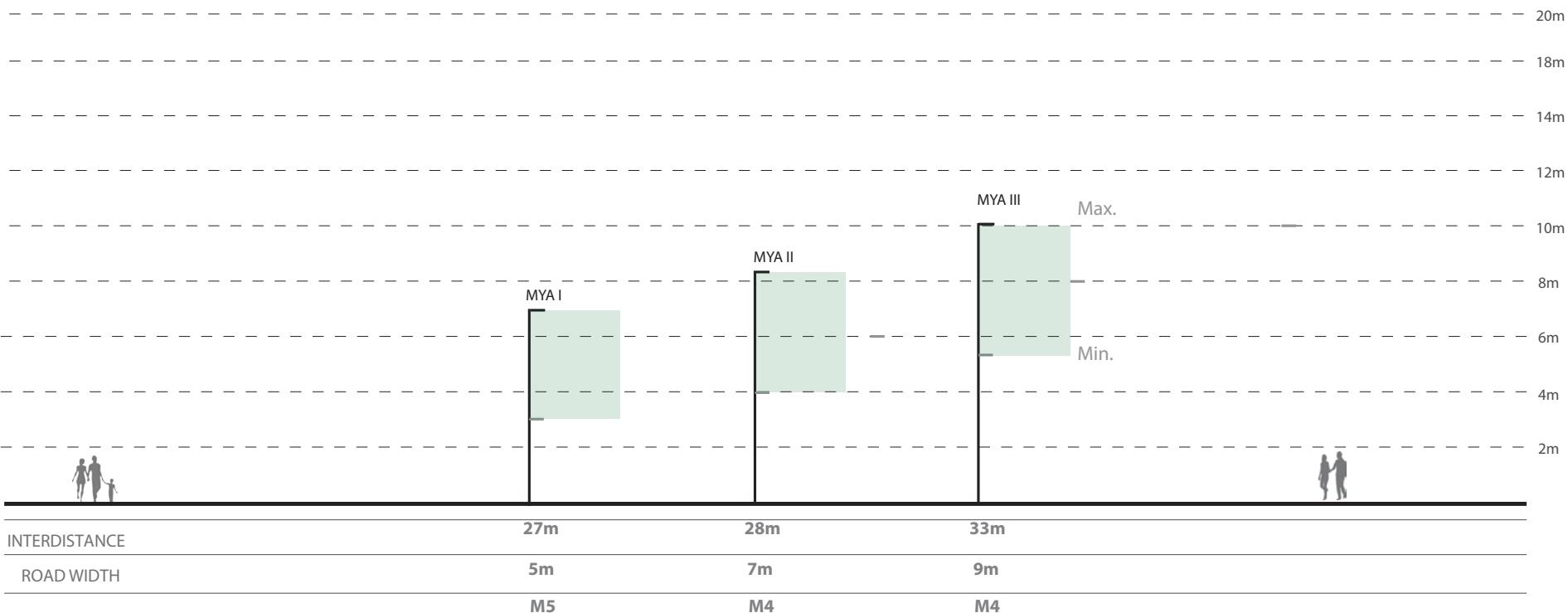


More optics available on request.

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
II I I INTENSITY DATE

MYA I A VSM DWC
II B
III C
D

DWC: Road Lens

VSM: Lens 360 °



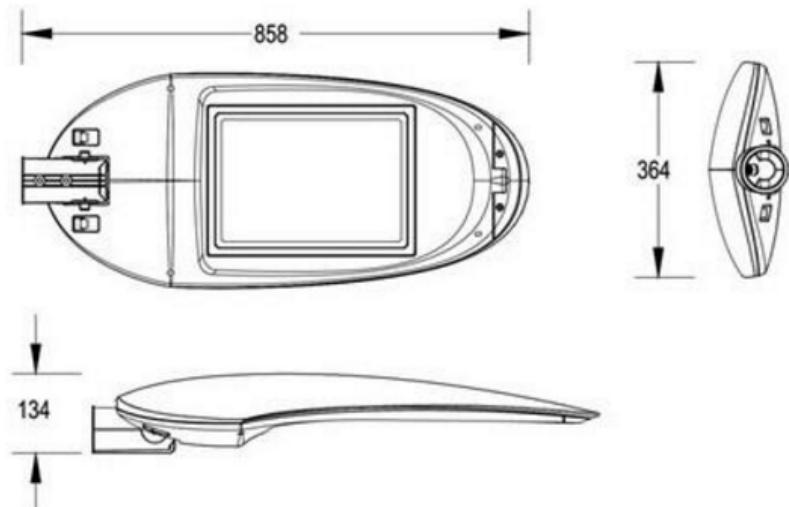
GRUPO SERING
Tecno
CeRT
LABORATORIO ACREDITADO ENAC

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

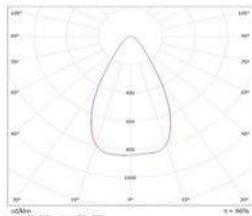
Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

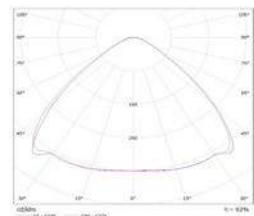
Extruded anodized aluminum profile designed to improve thermal management.

Available optics

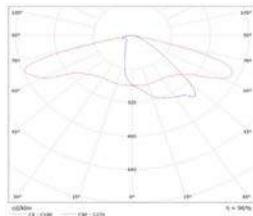
Lens of 60°



Lens of 100°



Road Lens

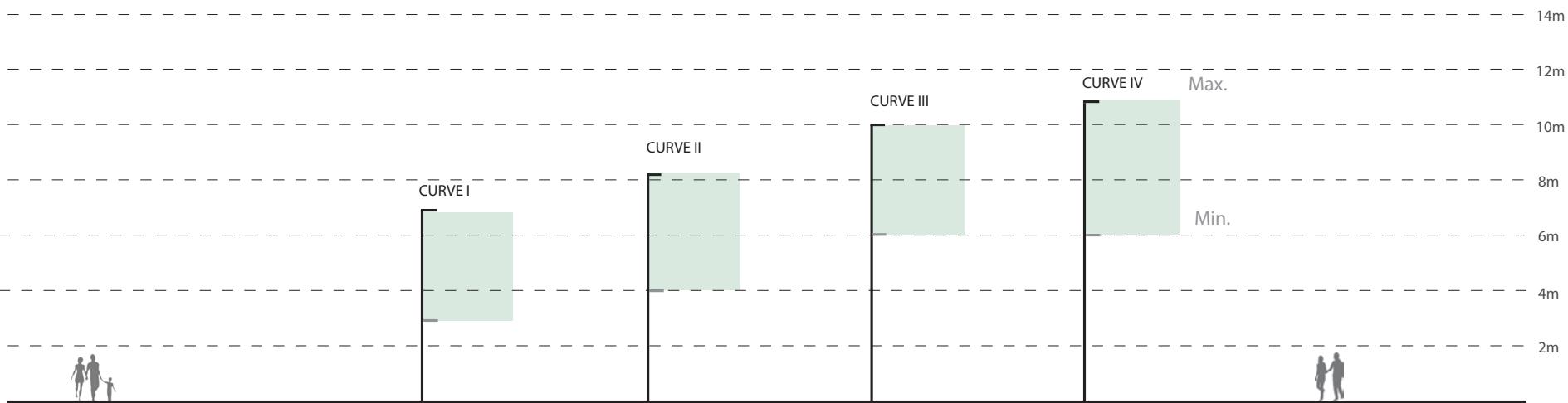


*More optical available under request.

Referential Location:

Reference for each model and power

Intensity 500 mA

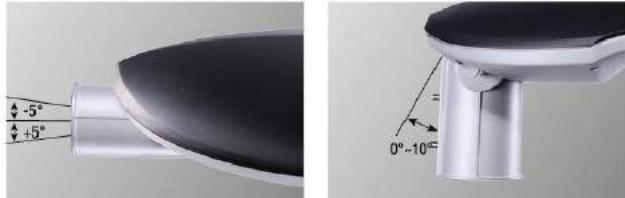


INTERDISTANCE	27m	28m	33m	30m
WIDTH WIDTH	5m	7m	9m	9m
ROAD TYPE	M5	M4	M4	M3

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

— II — I — XXX — DATE

CURVE
I
II
III
IV

DATE

W: Lens 60 °

WWW: Lens 100 °

DWC: Road Lens



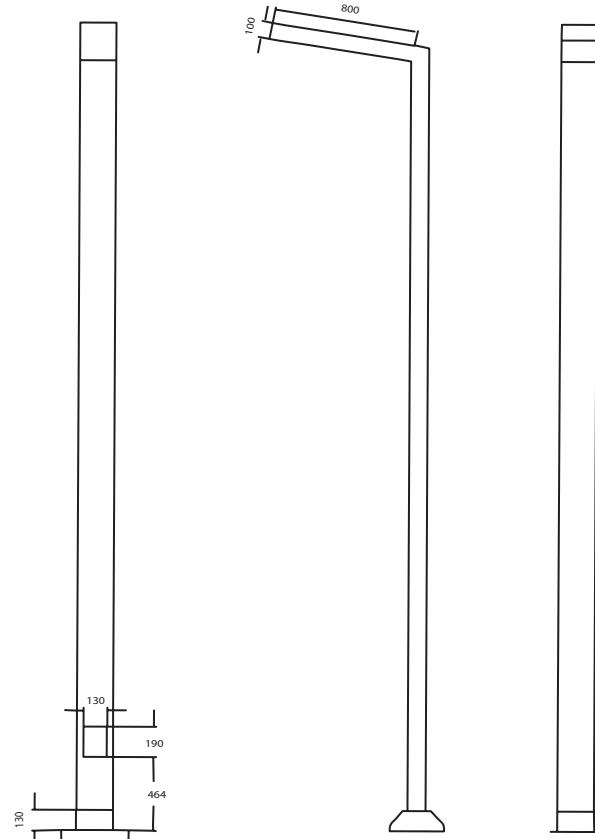
GRUPO SERING
Tecno CERT
LABORATORIO ACREDITADO ENAC

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	m	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

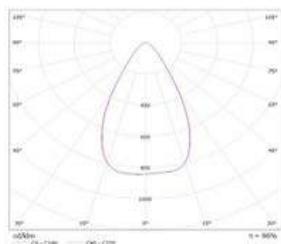
Flexible EPDM joint, designed to ensure tightness and optimum conditions inside the luminaire.

ALUMINUM PROFILE

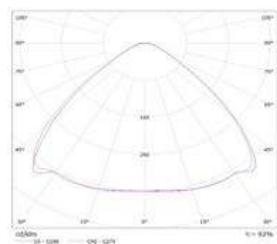
Extruded anodized aluminum profile designed to improve thermal management.

Available optics

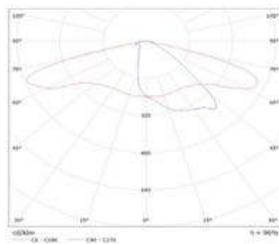
Lens of 60°



Lens of 100°



Road Lens



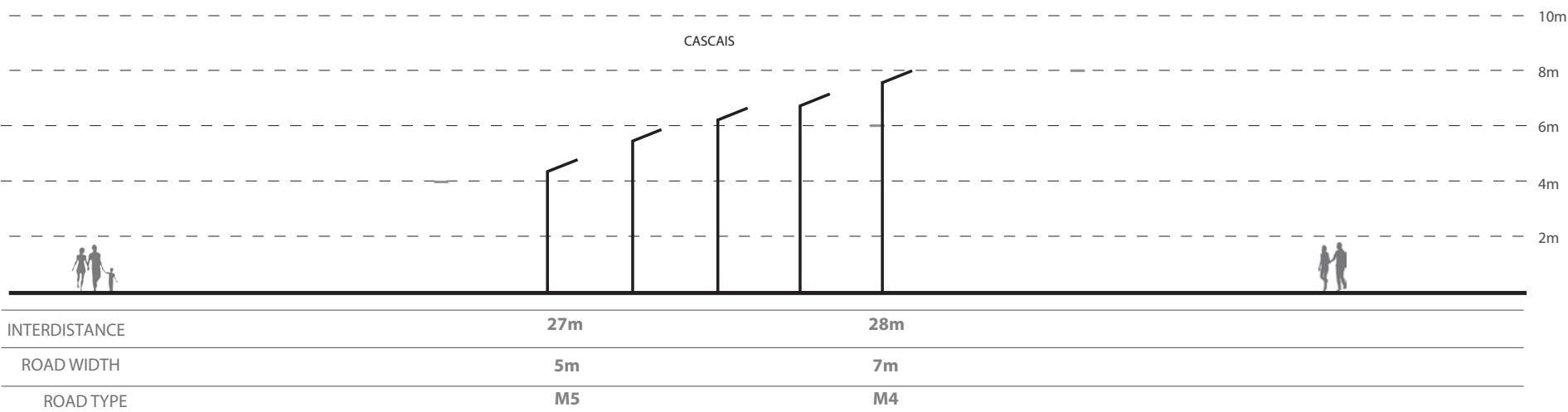
*More optical available under request.

Referential Location:

Reference for each model and power

Intensity 500 mA

CASCAIS



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

W: Lens 60 °

WWW: Lens 100 °

DWC: Road Lens



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.**
- **Ovvoltage 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



GRUPO SERING
Tecno CERT
LABORATORIO ACREDITADO ENAC

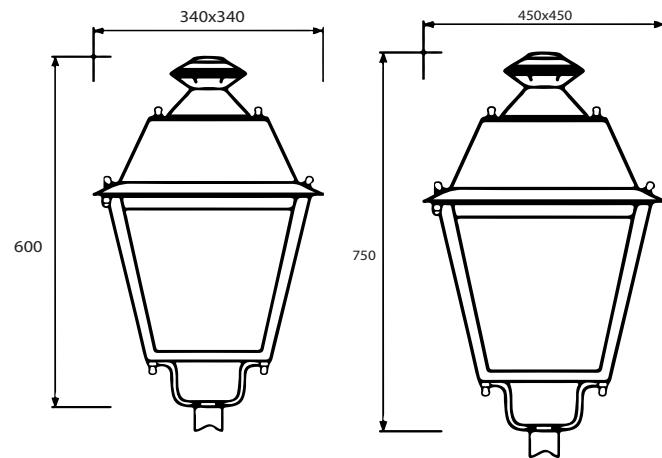
BX/XXXX
II
BULCO 35
45
54
DATE

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.

VILLESE FAMILY



Features:

- Type of IP67 optical protection.
- Cast aluminum body.
- 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.
- Laser cutting to required size and shape
- 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

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.

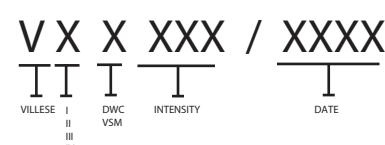
Model	Leds	Length	Intensity		Real power		Luminous flux *		Efficiency *	
			Uds	mm	mA	W	Lm	Lm/W		
VILLESE I	12	858	500	700	18	25,2	2.511	3.314	139,5	131,5
VILLESE II	24	858	500	700	36	50,4	5.022	6.628	139,5	131,5
VILLESE III	36	858	500	700	54	75,6	7.533	9.941	139,5	131,5
VILLESE IV	48	858	500	700	72	100,8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

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

DWC: Road Lens

VSM: Lens 360 °

Reference



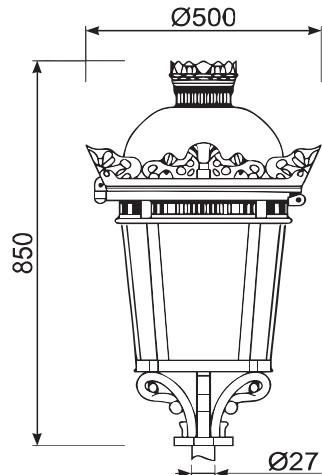
GRUPO SERING
Tecno
CERT
LABORATORIO ACREDITADO ENAC

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.



FERESE FAMILY



Features:

- Type of IP67 optical protection.
- Cast aluminum body.
- 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.
- Laser cutting to required size and shape
- 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

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	Leds	Length	Intensity		Real power *		Luminous flux		Eficiency	
			Uds	mm	mA	W	Lm	Lm/W		
VILLESE I	12	858	500	700	18	25,2	2.511	3.314	139,5	131,5
VILLESE II	24	858	500	700	36	50,4	5.022	6.628	139,5	131,5
VILLESE III	36	858	500	700	54	75,6	7.533	9.941	139,5	131,5
VILLESE 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

DWC: Road Lens

VSM: Lens 360 °

Reference

V X X XXX / XXXX
 VILLESE I II III IV
 DWC VSM INTENSITY DATE



GRUPO SERING
Tecno
CERT
LABORATORIO ACREDITADO ENAC

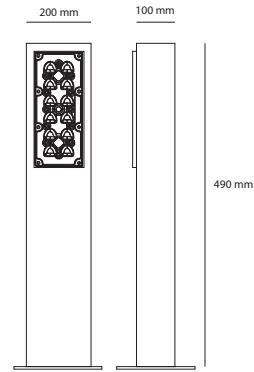
BEACONS FAMILY



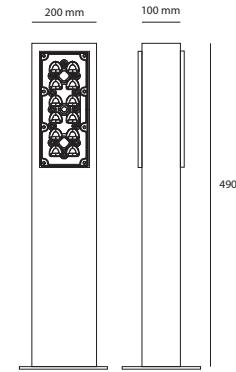
MARINOX FAMILY



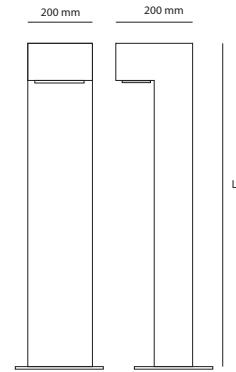
MARINOX



MARINOX DUO



MARINOX L90



Features:

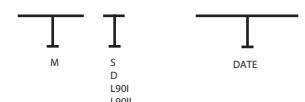
- Optical protection Type IP67.
- Driver protection Type IP65.
- 316 stainless steel beacon.
- IK10 LED module.
- Class II.
- SELV.
- Under request: CRI 90.
- Under request between 3000K & 6000K.
- Possibility of regulation.
- IP68 Conector .
- Tridonic Driver with multitude of functions and regulation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

Model	Length	Intensity	Power *	Luminous flux	Eficiency
	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

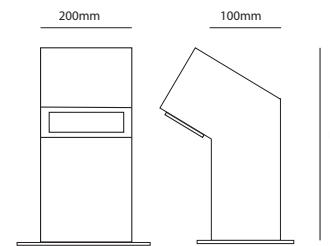
* The losses caused by the driver are not taken into account

Reference

MA X / XXXX



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	Eficiency
	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.

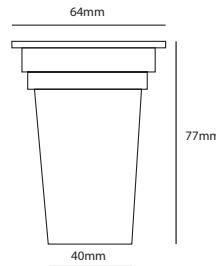
Reference

N X / XXXX
I I — T
NERO I II DATE



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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	Eficiency
	°	mA	W	Lm	Lm/W
POWER I	15	390	1	90	90

Reference

BP / XXXX

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B.POWER
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DATE

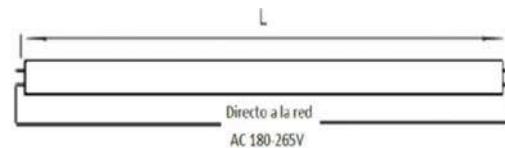


GRUPO SERING
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CeRT
LABORATORIO ACREDITADO ENAC

TURE FAMILY



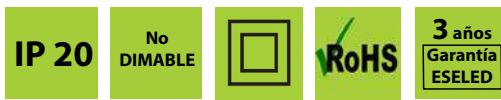
EC TUBE



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 °.**

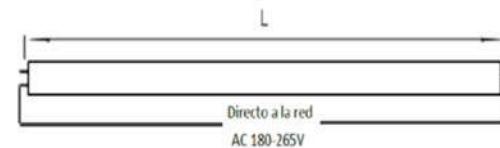
Model	Length	Aperture	Power	Real luminous flux	Eficiency
	cm	°	W	Lm	Lm/W
T8 EC 60	60	120	9	855	95
T8 EC 120	120	120	18	1.710	95
T8 EC 150	150	120	23	2.185	95
T8 EC 60 OPAL	60	160	9	720	80
T8 EC 120 OPAL	120	160	18	1.440	80
T8 EC 150 OPAL	150	160	23	1.840	80



Reference
ECX XXXXX

EC 60 120 150 T O DATE

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

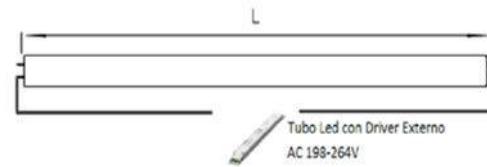
Modelo	Longitud	Apertura	Potencia real	Flujo luminoso	Eficacia
V2	cm	º	W	Lm	Lm/W
T8 POWER 60	60	120	12	1.440	130
T8 POWER 90	90	120	18	2.160	130
T8 POWER 120	120	120	24	2.880	130
T8 POWER 150	150	120	30	3.600	130
T8 POWER 60 SATIN	60	140	12	920	115
T8 POWER 90 SATIN	90	140	18	1.380	115
T8 POWER 120 SATIN	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



GRUPO SERING
LABORATORIO ACREDITADO ENAC

Reference
 P X X X XXXX
 I I I I T DATE
 POWER V1 60
 V2 90 T
 120 O
 150 S

POWERFULL TUBE



Features:

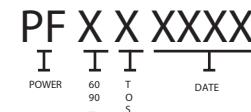
- IP20.
- Class II.
- Lamp life > **50.000 h.**
- Power factor > **0,95.**
- Voltage range **198- 264 V AC.**
- Under request from **3000K and 6000K.**
- Temperature range from **-25 °C to 55 °C.**
- External Driver.
- Difusor available in opal, satin and transparent.
- Rotary shell G13 of 360 °.

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	Eficiency
	cm	°	W	Lm	Lm/W
T8 POWERFULL 60	60	120	14	1.890	135
T8 POWERFULL 90	90	120	20	2.700	135
T8 POWERFULL120	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



WATERPROOF SCREEN



Features:

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

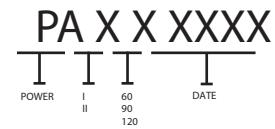
Available with optional emergency kit.

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

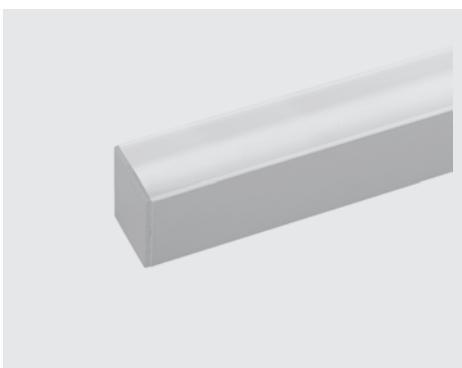
The following table is configured for power tubes:

Model	Length	Aperture	Real power	Luminous flux	Eficiency
	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



LINEAR SCREEN



Narrow profile

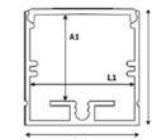


Wide profile

$A=30\text{ mm}$
 $L=30\text{ mm}$
 $A1=21\text{ mm}$
 $L1=27\text{ mm}$



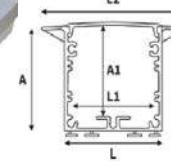
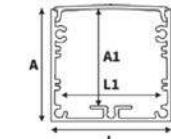
Narrow profile



$A=46\text{ mm}$
 $L=49\text{ mm}$
 $A1=40\text{ mm}$
 $L1=46\text{ mm}$



Wide profile

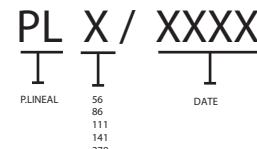


Features:

- 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
	Ø	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



MADE IN
SPAIN



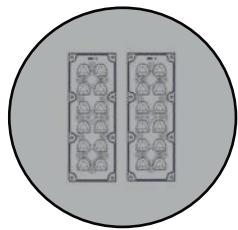
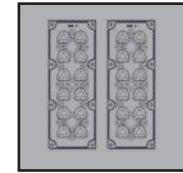
GRUPO SERING
Tecno Cert
LABORATORIO ACREDITADO ENAC

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 eficiency 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

I	II	III	...	DWC	VSM	W	WWW	INTENSITY	DATE
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STANDARDS AND CERTIFICATIONS

PROTECTION LEVEL

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.

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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subject to
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