CIES Crosswalk Luminaire 12LED 40W

Smart lighting for the benefit of public security



CIES Crosswalk is an intelligent LED lighting solution for pedestrian areas, designed to improve public safety by increasing pedestrian visibility in crossing areas and reducing the risk of accidents.

The solution consists of CIES Crosswalk luminaires, specifically designed to improve lighting at pedestrian crossings through dedicated optics and colour temperatures. Its specialised optics concentrate the light on the crossing area, creating an arc of light that improves pedestrian visibility and highlights their presence against the surrounding environment.

The aim of CIES Crosswalk is to enhance road safety and prevent accidents caused by inadequate visibility at pedestrian crossings. It is also ideal for improving safety on low-traffic streets, residential areas or pedestrian paths. Its specialised optics are specifically designed for these applications, directing the light towards the area of interest and creating an arc of light that highlights the waiting area, the pedestrian crossing and the figures of pedestrians. The different optics for the right and left sides allow existing columns to be used without replacing them, while providing flexibility for installation on one- or two-lane roads and in different directions, adapting to the characteristics of each installation.

In addition, CIES Crosswalk incorporates a Zhaga Book 18 connector on the underside, allowing the integration of different sensors compatible with this standard. This means that the luminaire is ready to incorporate additional lighting control and management functionalities, adapting to the requirements of each installation.

In addition, CIES Crosswalk is made of corrosion-resistant technical polymer, providing excellent resistance to weather conditions, even in the most adverse climates. It is a fully insulating material that offers maximum electrical safety. LED lighting also provides high-quality illumination and high energy efficiency, meeting users' lighting requirements, ensuring visibility and preventing glare while maximising energy savings.

In short, CIES Crosswalk is an intelligent, durable, customisable and environmentally friendly solution, ideal for improving urban safety efficiently and sustainably.

Ref.	60099200

Other features	
Number of LEDs	12
Lighting control	Programmable
Power	40.00 W

Packaging info	
Box	1 pcs.

Physical data	
Net weight	4,151.00 g
Gross volume	23.10 dm^3
Gross weight	5,351.00 g
Width	263.00 mm
Height	249.00 mm
Depth	504.00 mm
Main product weight	4,151.00 g

Highlights

- **High durability and resistance:** being a column-mounted luminaire, it avoids the damage caused by the passage of traffic suffered by floor luminaires, increasing their service life
- **Total immunity to corrosion and oxidation:** prevents degradation of the luminaire even in extreme environments
- **Dedicated optics for pedestrian crossings:** concentrate the light on the crossing area, creating an arc of light that highlights the waiting area and the figures of pedestrians. The different optics allow the luminaire to be positioned on both sides of the pedestrian crossing, make use of existing columns and adapt to different installation configurations
- **Sensor-ready connectivity:** incorporates a Zhaga Book 18 connector on the underside, allowing the integration of different sensors compatible with this standard and expanding the lighting control and management functionalities
- **100% electrical safety:** the technical polymer construction offers a fully insulated class II solution
- **Customisable colour that lasts over time:** it emphasises the walking area even during the day thanks to the range of colours available. The colour injected during the manufacturing process offers excellent durability
- **Eco-friendly luminaire:** manufactured with recyclable materials, in a process that minimises the carbon footprint. In addition, the lightweight materials optimise transport, installation and maintenance, helping to reduce transport emissions

Discover

Our ranges of luminaires encompass a wide range of powers and number of LEDs, in addition to being customizable in the types of lighting control, colour temperatures, optics and their light distribution, and finishes. **A product can be configured according to these parameters, and ordered by its numerical or logical reference**, as follows:

Selecting the luminaire by the numerical reference:

This is a numerical code made up of 14 digits:

- The first 6 digits represent a code that depends on the Series of the luminaire, the number of LEDs and the power
- The next 8 digits allow you to choose the configurable parameters of the luminaire: lighting control, colour temperature, type of optics and finish

Series		Dimming		Colour Temperature		Optics		Finish	
631703	*Urban Alameda E 24LED 53W*	**00**	*No Dimming*	**18**	*PC Amber*	**02**	*SP*	**02**	*Black*
631713	*Urban Alameda E 24LED 39W*	**01**	*Dimming*	**22**	*2200K*	**11**	*D90*	**xx**	*Custom*
				27	*2700K*	**17**	*T2-C90*		
				30	*3000K*	**18**	*T3-B90*		
				40	*4000K*				

Selecting the luminaire by logical reference:

This is an alphanumeric code composed of an unlimited number of characters, describing the luminaire's characteristics using logical abbreviations, to facilitate its interpretation. It is divided into 2 groups of characters, separated by a hyphen:

- The first group specifies: the luminaire series, the number of LEDs, the colour temperature, and the lighting control
- The second group specifies: the type of optics, the finish and the power

An example of a logical reference: UA2418D-D90BL53

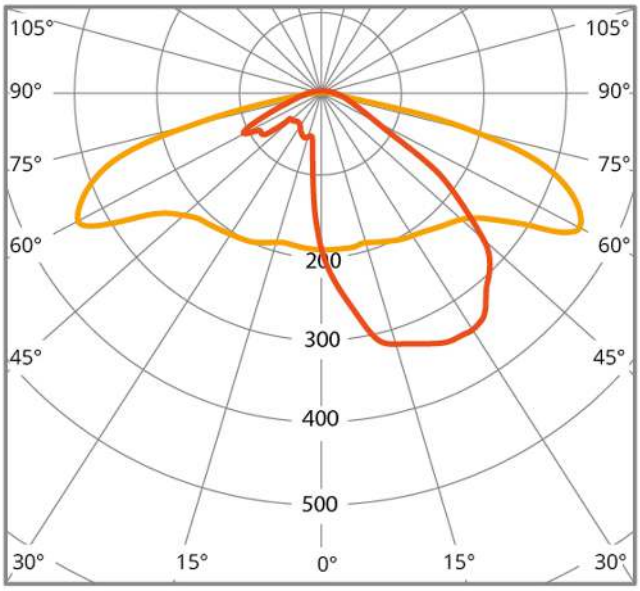
- UA – *Urban Alameda*
- 24 – *24 LEDs*
- 18 – *Colour Temperature: PC Amber*
- D – *Dimming included*

- D90 – *D90 Optics*
- BL – *Black colour*
- 53 – *53W Power*

Range & LED number		Colour Temperature		Dimming		Optics	Finish		Power	
UA24	*Urban Alameda E 24LED*	**18**	*PC Amber*	**(ø)**	*No Dimming*	**SP**	**BL**	*Black*	**53**	*53W*
		22	*2200K*	**D**	*Dimming*	**D90**	**xx**	*Custom*	**39**	*39W*
		27	*2700K*			**T2-C90**				
		30	*3000K*			**T3-B90**				
		40	*4000K*							

Graphic documentation

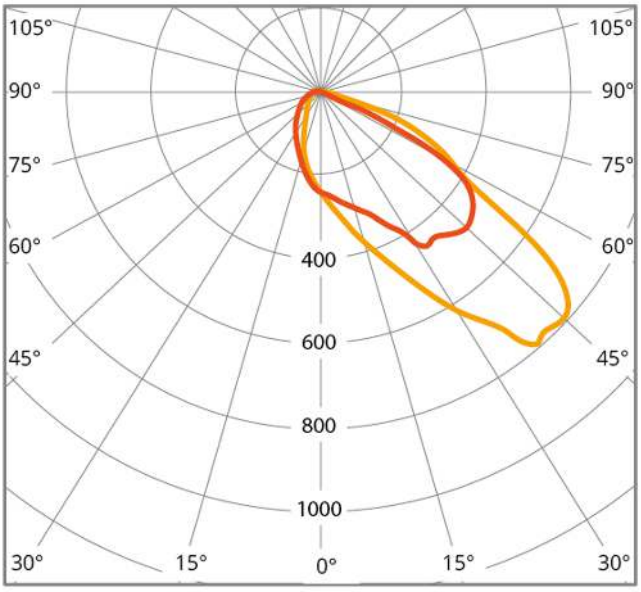
T3



cd/klm C0 - C180 C90 - C270 η = 92%

Light distribution curve

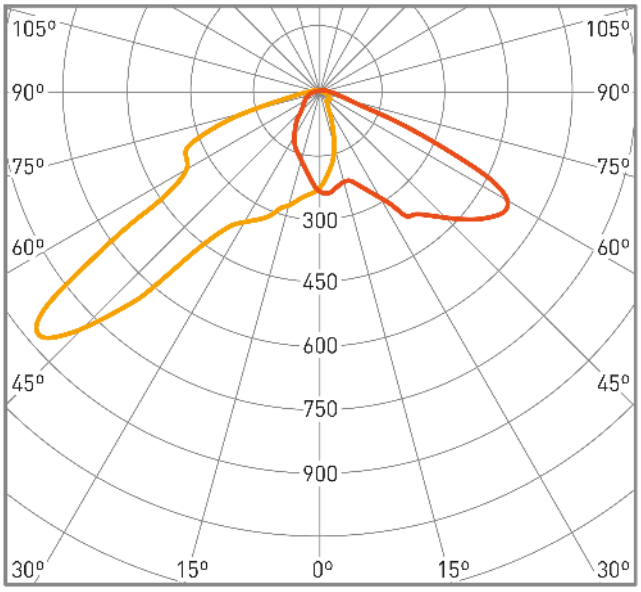
PX



cd/klm C0 - C180 C90 - C270 η = 100%

Light distribution curve

PXL



cd/klm C0 - C180 C90 - C270 η = 96%

Light distribution curve

Features



Enhanced safety on all types of roads

CIES Crosswalk is especially useful for urban areas with a high density of traffic and pedestrians, where the number of distractions for both is high, as about 90% of road accidents happen in these areas.
The solution is also crucial for interurban roads, where vehicles travel at higher speeds and reaction time is shorter. In addition, the lower frequency of pedestrians means that drivers pay less attention to their appearance. Accidents on this type of road have a high fatality rate, so prevention with specific lighting to improve visibility is essential.
Finally, safety at zebra crossings is particularly important near schools, parks or on Safe Routes for Schools, where children often walk or cycle. They are more difficult to see because of their small stature, are much more vulnerable to impact, and are often more unpredictable and distracted. Therefore, reinforced attention by improving contrast in passing zones can be decisive in avoiding accidents.



Commitment to environment

Like the entire CIES range, CIES Crosswalk is an environmentally friendly luminaire in many aspects. It optimises energy savings and limits light pollution, as the luminous intensity is regulated according to the presence of pedestrians. The luminaires operate at 30% of their full power while the area is clear and the power is increased to 100% as soon as pedestrians are detected. In addition, it complies with IAC requirements for areas of special night sky protection (less than 0.1% luminous flux emission to the upper hemisphere). Finally, it is made of technical polymer, a very light and resistant material, optimising transport, installation and maintenance tasks related to public lighting.



Invulnerable in any environment

CIES is made of corrosion-proof materials: technical polymers with a proprietary formula and stainless steel. By avoiding the use of mixed metals, the possibility of galvanic corrosion is completely eliminated, thus ensuring a long life for the luminaire.
Its UV-stabilised technical polymer casing is vandal-resistant, withstanding impacts of IK10 level.
CIES is the ideal luminaire for maritime areas, as it is particularly resistant to exposure to adverse weather conditions with high levels of humidity and/or salinity.



Perfect thermal management

The CIES luminaire has a passive cooling system for the light source. High-quality thermopolymer heat sinks ensure thermal conductivity, resulting in great temperature stability.
In addition, the electronics compartment is separated from the LED modules, which prevents heat transfer between the two points.
Thanks to the thermal protection of the electronics, the light's lifetime is maximised (L90B10 > 100,000h at 25°C) and its efficiency is greatly improved (up to 160 lm/W).



Easy installation and maintenance

CIES has been designed to simplify installation and maintenance tasks as much as possible. From its light weight and handy format, to its tool-free cover opening and locking system, facilitating on-site replacement of any of its components.
Moreover, the luminaire has a self-cleaning system thanks to the grooves located in the top part of the luminaire, helping to clean and preventing possible degradation due to the accumulation of dirt.



Environmentally friendly under the 3 R's

In order to reduce environmental damage and take care of our planet, we take responsibility to contribute by following the 3 R rule:

- Reduce: Our manufacturing process reduces by 50% the carbon footprint generated, compared to aluminium equivalents
- Reuse: The luminaire can live on in the infrastructure, thanks to a LED module and driver replacement sustainably, supporting the circular economy
- Recycle: The luminaire is made of 100% recyclable materials



100% electrical safety

This luminaire has the best levels of electrical protection: its Class II guarantees safety without the need for ground connection thanks to the double isolation of the components. Furthermore, the SELV certificate guarantees an output voltage of less than 60V, minimising the risk of electrocution in the event of system failure. In addition, its driver, optical group and IP68 connections offer integral protection to all the optical and electronic elements against the ingress of water and dust, eliminating any effect caused by external agents.

Finally, the casing made of technical polymer (non-conductive material) eliminates completely the possibility of electrocution in the event of contact with the luminaire.



Televes quality guarantee

Our cutting-edge facilities are equipped with all the means to guarantee a quality and reliable luminaire, highlighting precise traceability and rigorous verification of all processes. This is possible thanks to an advanced methodology of product design under simulation and in-house manufacturing on robotised lines, in collaboration with national and local providers.



A world of possibilities

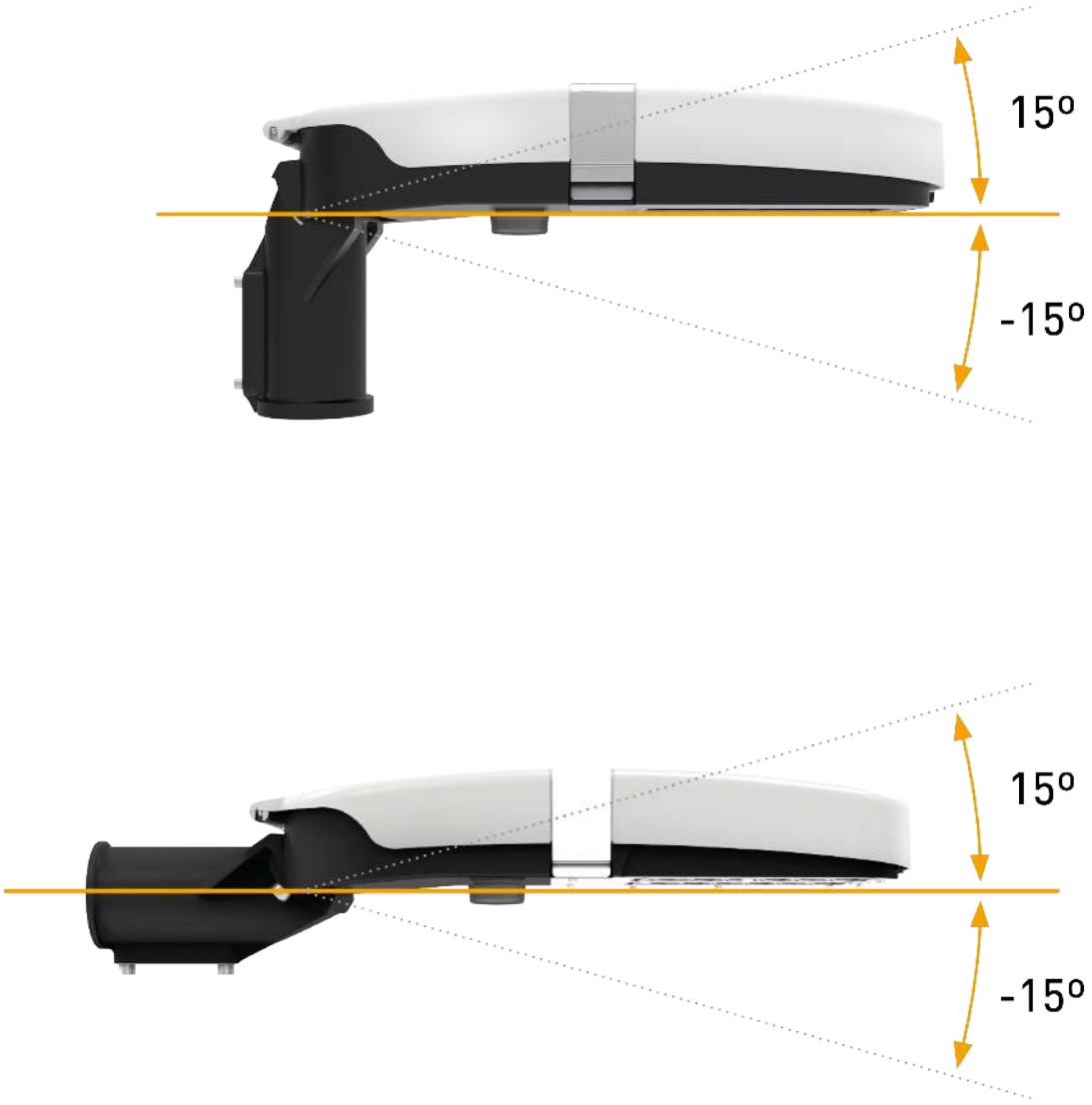
CIES Crosswalk offers multiple alternatives to give a unique and exclusive style to your luminaires:

- A wide selection of highly homogeneous colour temperatures (SDCM<3): 3,000, 4,000, 5,000 and 5,700ºK
- 2 types of specific optics for crosswalks (PX and PXL) and one optic for promenades (T3) are available
- CRI>70 and available on request CRI>0 and CRI>90

And if you don't find what you are looking for, we have even more options available on request. We are pleased to study your project in a tailored, non-binding way. Contact us, and we will help you choose the perfect lighting.

Mounting details

Quick and easy mounting by using a single accessory for vertical and horizontal position of great strength and durability, made from a specially-formulated technical polymer.
The rotation of the lighting unit can be adjusted up to 30º. It is also adaptable to posts, columns and arms with Ø 42 to 60 mm, and adapters are available for other diameters.



Indication of tilt angles for quick calibration for easy installation.



Tool-free top opening for access to electronics and LED module. Electrical disconnection on opening to minimise the risk of electrocution.



Technical specifications : Ref. 60099200

Number of leds		12				
Power	W	40				
Pre-programmed dimming		No				
Control interface		Dali 2				
Node/sensor connection type		1x Zhaga				
Optic type options		PX				
Lens type		PMMA lens				
Color temperature options		2200K	2700K	3000K	4000K	PC Amber
Luminous flux	lm	4540	4996	5520	5720	2340
Lighting efficiency	lm/W	113.5	124.9	138	143	58.5
LED current	mA	500	500	500	500	1000
Duration	h	100000				
Working life		L90B10				
Constant ligh output (CLO)		Yes				
Standard Deviation Colour Matching (SDCM)		< 3				
Color rendering index (CRI)		70				
CE Mark		Yes				
ENEC Certificate		No				
Protection Class IEC		Class II				
EU RoHS Compliant		Yes				
IK Rating (light module)		10				
IK Rating (whole luminaire)		10				
IP Rating (light module)		66				
IP Rating (whole luminaire)		66				
Color		White/Black				
Material		Tecnical Polymer				
Material cover		Without cover				
Fixation Material		Tecnical Polymer				
Mast diameter Max	in	2.362				
Mast diameter Min	in	1.654				
Mounting method		Post top/side entry				
Surface facing the wind	m^2	0.115				
Number of LED modules		1				
Minimum power factor		0.9500				
Lighting source type		LED				
Replaceable light source		Yes				
Cable		Yes				
Power consumption tolerance	%	5				
Lighting flux tolerance	%	8				
Electric connection		3-pole waterproof connector				
Inrush current	A	54				
Input voltage Max	Vac	240				
Input voltage Min	Vac	220				
Mains frequency		50 Hz				
Max. Operating temperature	°F	104				
Min. Operating temperature	°F	-31				