

AtmosLED Luminaire Z-Series 36LED 77W

Luminaires for intercity roads and diverse outdoor areas

Highly versatile road luminaire adaptable to any outdoor environment, built in technical polymer and extruded anodised aluminium specially designed for perfect thermal management, optimised service life and resistance to aggressive environments. Designed to increase energy savings and reduce maintenance costs thanks to its high efficiency and durability.

AtmosLED offers multiple options in terms of power, number of LEDs and optics. In this way, these luminaires are suitable for a wide range of locations, being ideal both in areas that require a large amount of homogeneously distributed light and in areas with greater restrictions, regarding both in terms of light intensity and light projection.

The Z series offers maximum flexibility by incorporating a standard Zhaga Book 18 connector that enables Plug&Play connection with remote management nodes and facilitates sensor integration. It also offers CLO (Constant Lumen Output) regulation, NFC programming and 5-step multi-level pre-programmed dimming.
In addition, this open interface allows the Z series to be connected to remote management systems, combining the possibilities of full integration with additional sensors. It incorporates D4i-certified drivers and DALI2, Ready2Mains and U6Me2 communication protocols over the power line. Thus, our luminaires can be seamlessly integrated iinto Smart City projects project..

Ref.	68290200

Other features	
Number of LEDs	36
Lighting control	Remote control
Power	77.00 W

Physical data	
Net weight	6,041.00 g
Gross volume	28.50 dm³
Gross weight	6,731.00 g

Packaging info	
Box	1 pcs.

Width	338.00 mm
Height	88.00 mm
Depth	336.00 mm
Main product weight	6,041.00 g

Highlights

- **Durability and resistance:** compact technical polymer and extruded and anodised aluminium structure, corrosion resistant even in the most aggressive environments
- **High versatility:** AtmosLED adapts to all types of contexts and situations
- **100% electrical safety:** class II with no need for grounding and SELV certification
- **Energy saving:** long lifetime without the need for maintenance, which increases the savings compared to other technologies, achieving savings of up to 80%
- **Supports the quality of the night sky:** in accordance with the IAC (Instituto de Astrofísica de Canarias) requirements, the luminaire is suitable for areas of special protection from light pollution (flux emission to the upper hemisphere < 0.1%)
- **100% made in Televes:** technology designed and manufactured in our cutting-edge facilities, guaranteeing total control, with demanding quality monitoring, over each of the production phases

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

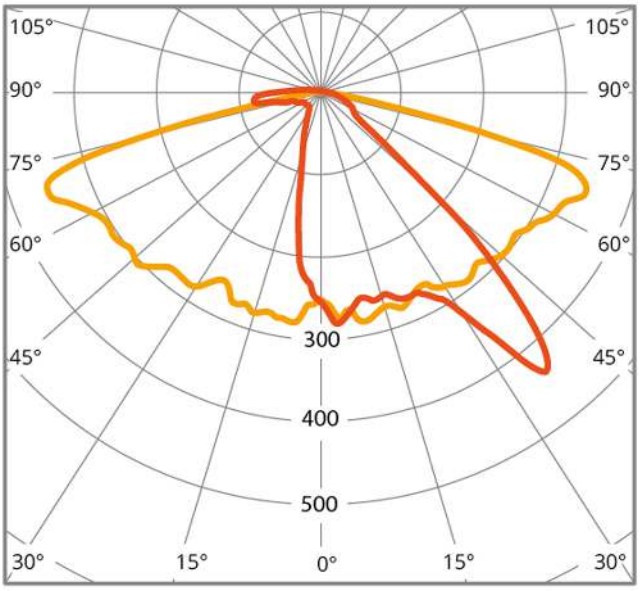
- UA – *Urban Alameda*
- 24 – *24 LEDs*
- 18 – *Colour Temperature: PC Amber*
- D – *Dimming included*

- 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

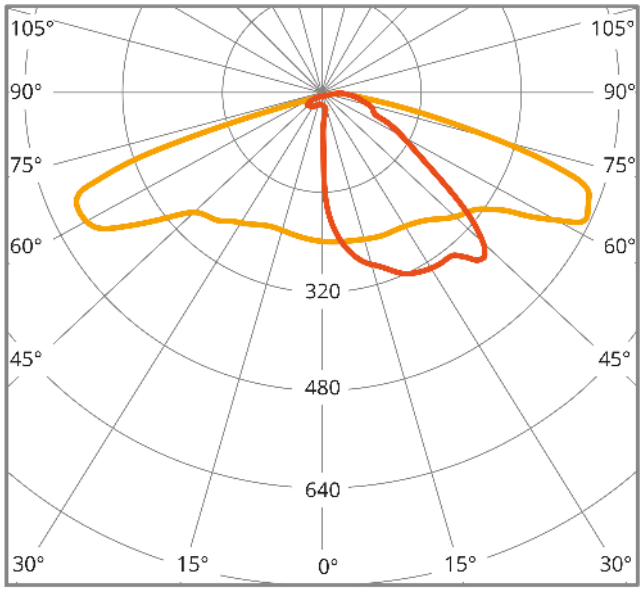
ME



cd/klm C0 - C180 C90 - C270 $\eta = 88\%$

Light distribution curve

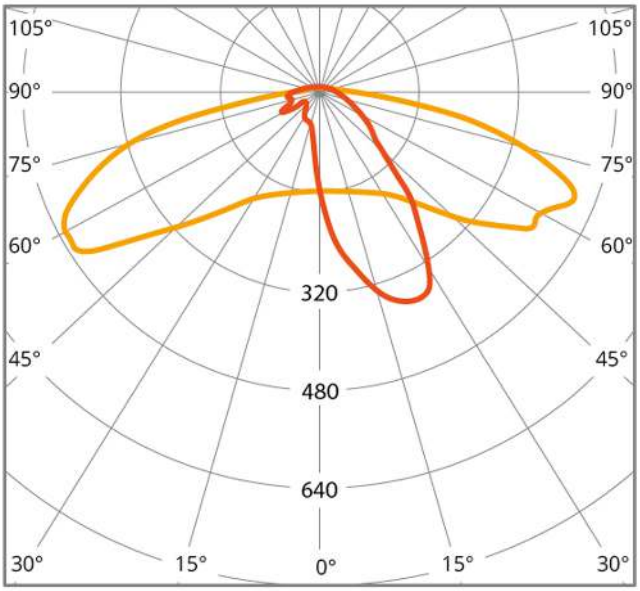
P



cd/klm C0 - C180 C90 - C270 $\eta = 94\%$

Light distribution curve

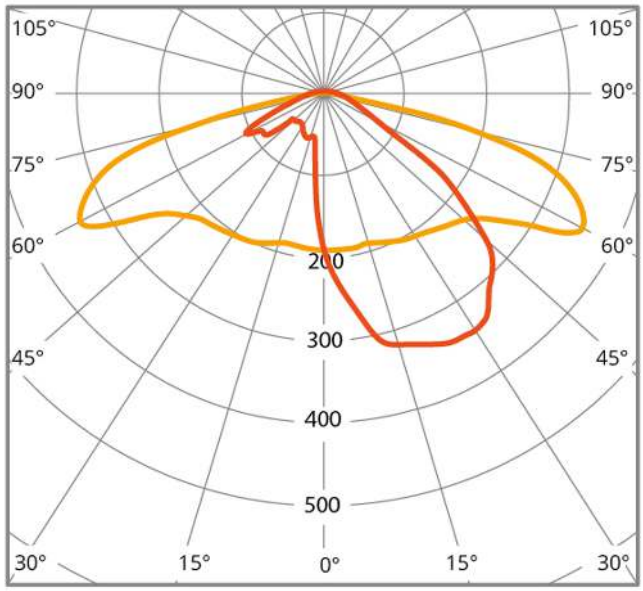
T2



cd/klm C0 - C180 C90 - C270 $\eta = 90\%$

Light distribution curve

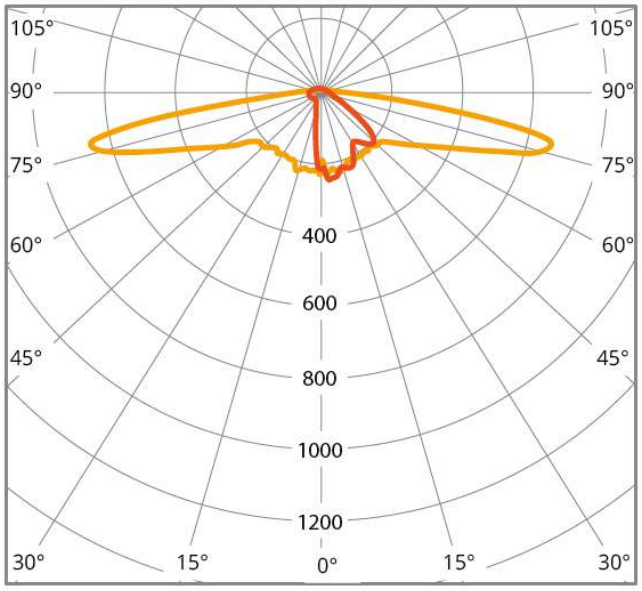
T3



cd/klm C0 - C180 C90 - C270 $\eta = 92\%$

Light distribution curve

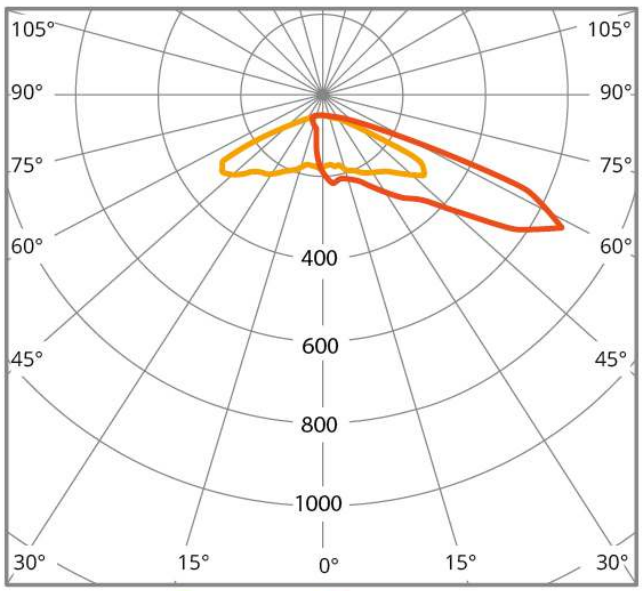
SCL



cd/klm C0 - C180 C90 - C270 $\eta = 86\%$

Light distribution curve

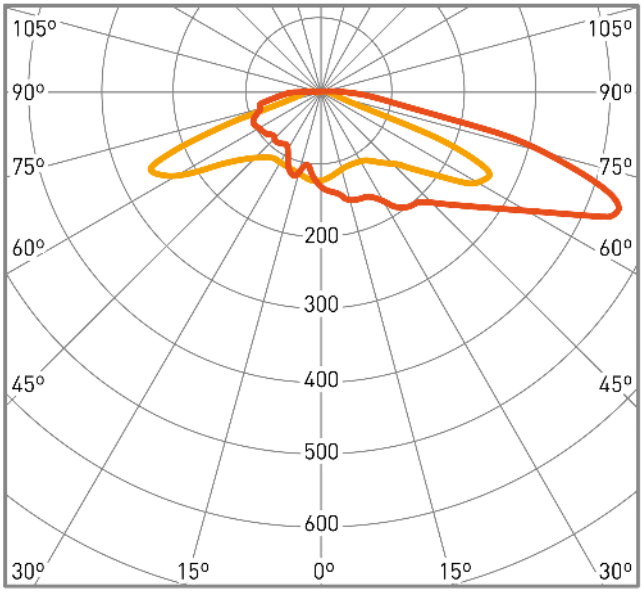
APZ



cd/klm C0 - C180 C90 - C270 $\eta = 96\%$

Light distribution curve

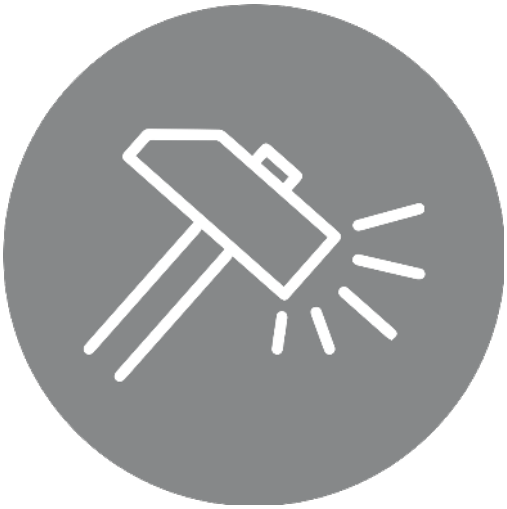
T4



cd/klm C0 - C180 C90 - C270 $\eta = 94\%$

Light distribution curve

Features



Resistance and durability

The AtmosLED luminaire consists of technical polymer and an extruded and anodised aluminium body that increases its hardness, obtaining an IK10 degree of protection against physical impact. The side covers are made of injected lacquered aluminium and all the screws are made of stainless steel, making it highly resistant to corrosion and guaranteeing its durability.



A luminaire for all situations

The AtmosLED range is presented as a highly versatile lighting solution that adapts to all types of roadways. There are multiple options of power and number of LEDs, as well as different placement possibilities, so AtmosLED manages to adapt to each of the needs of the environment.
Its aesthetics combine simplicity with functionality, making it ideal for use in urban areas (streets, avenues, squares...), traffic areas (motorways, expressways, roads...) and various outdoor areas (shopping centres, industrial areas, parkings...).



Flawless thermal management

The structure of the AtmosLED luminaire consists of an technical polymer and extruded aluminium enclosure with dissipation curves that form part of the profile itself and are located in a ventilated cavity.
There are two independent zones, a watertight cavity (IP67) in which the equipment and electrical connections are located and a ventilated cavity that acts as a heat sink, preventing heat transfer between the two points.
The thermal protection of the electronics maximises the useful life of the luminaire (L90B10 > 100,000h at 25ºC) and improves its efficiency (up to 160 lm/W).



Convenient installation

The compact and slim design of the luminaire makes it easy to handle during the installation process, reducing assembly times.



Complete watertightness

The AtmosLED series has an IP66 degree of watertightness on the complete luminaire. This guarantees absolute protection of every electronic component and internal element against the ingress of solid particles and liquids.
In addition, it has a pressure compensating device which prevents the possible absorption of dust and humidity due to differences in pressure between the inside and outside of the luminaire.
In the same way, the connections of the AtmosLED luminaires provide watertightness and electrical safety at all times, thanks to the use of M16 stuffing glands that ensure an IP67 degree in the watertight cavity of the equipment and an IP68 degree in the external connectors.



Maximum security

The AtmosLED luminaire has the highest levels of electrical protection: its Class II guarantees safety without the need for grounding thanks to the double isolation of the components. Furthermore, the SELV certificate provides an output voltage of less than 60V, minimising the risk of electrocution in the case of system failure. In addition, its driver, optical group and IP67 connections offer integral protection to all optical and electronic elements against water and dust ingress, eliminating any effect caused by external agents.



A world of possibilities

Each situation requires specific lighting features, that's why our luminaires offer multiple alternatives to meet the needs of each context:

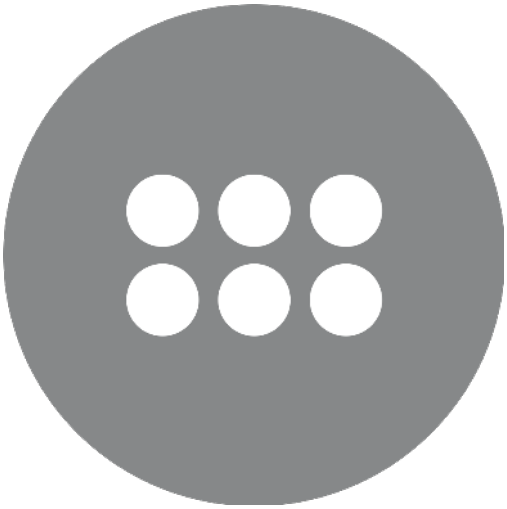
- A wide selection of highly homogeneous colour temperatures (SDCM<3): PC Amber, 2,200, 2,700, 3,000 and 4,000ºK
- 7 different types of optics are available to achieve lighting adapted to any environment: P, ME, T2, T3, T4, APZ and SCL
- Variety of finishes in any colour of the RAL range
- CRI>70 and available on request CRI>80 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.



Design and manufacture 100% made in Televes

Our edge facilities include all the means for the creation of this luminaire, from start to finish. This involves everything from electronic and mechanical design, through advanced simulation processes, to the manufacture of the circuits, plates and all the chassis elements, through meticulous construction processes and assembly on robotic lines. A proprietary design and manufacturing process also offers other benefits, such as quality verification at every point of development.



Control and connectivity

This range is equipped with D4i (Digital Illumination Interface Alliance) certified drivers, which have the ability to store luminaire data. At the same time, D4i defines how to feed from the driver to other DALI2 devices connected through the bus, simplifying communication with sensors.
All Z Series luminaires are DALI2 and CLO dimmable and include the standard Zhaga Book 18 socket, which allows Plug&Play connection with remote management nodes and the integration of multiple sensors (presence, twilight, noise, air quality...).

Technical specifications

Ref. 68290200

Number of leds		36												
Power	W	77												
Pre-programmed dimming		Yes												
Control interface		Dali 2												
Node/sensor connection type		1x Zhaga												
Optic type options		P		T2		T3		T4		ME		APZ		SCL
Lens type		PC lens		PC lens		PC lens		PC lens		PC lens		PC lens		PC lens
Color temperature options		2200K		2700K		3000K		4000K		PC Amber				
Luminous flux	lm	9240		10010		10395		11550		4774				
Lighting efficiency	lm/W	120		130		135		150		62				
LED current	mA	330		330		330		330		660				
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)		68												
IP Rating (whole luminaire)		66												
Color		Aluminum												
Material		Aluminium												
Material cover		Without cover												
Fixation Material		Aluminium												
Mast diameter Max	in	2.362												
Mast diameter Min	in	1.654												
Mounting method		Post top/side entry												
Surface facing the wind	m^2	0.084												
Number of LED modules		3												
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	Vac	220 ... 240												
Mains frequency		50 Hz												
Max. Operating temperature	°F	104												
Min. Operating temperature	°F	-31												