Technical datasheet

LUKA-XL-727-2-C15021



Product description

Luka emits reliably efficient light on traffic roads and industrial areas to support safety and security outdoors. The smart function also offers a range of smart city functions.

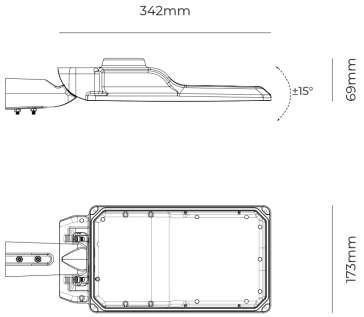
LED 220-240V 50-60Hz IP66 CCT 2700 k CRI 70+ CLO

Product technical data

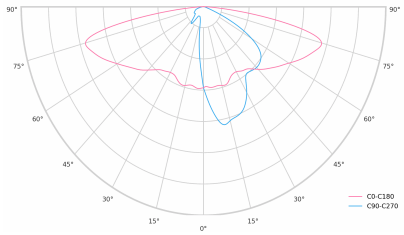
Mains voltage	220 - 240V AC, 50/60Hz
Connection method	Connection cable
Dimming type	DALI
IP rating	66
Protection class	I
Ambient temperature	-40 to +40 °C
Light source	LED
Colour temperature	2700k
Color rendering index	70
Rated luminous flux	5,993 lm
Connected load	55.26 W
Luminous efficacy	108.5 lm/W

Ripple	3 %
DALI address	1
Standby power	0.50 W
Inrush current	85 A
Inrush time	256 µs
Optical system	Lenses
Optical part material	Hardened glass
Housing material	Die-cast aluminium
Surface finish	Powder coated
Width	173.00 cm
Height	69.00 cm
Length	342.00 cm
Weight	5.00 kg
Service lifetime (L80 B10)	>100 000 h
Warranty	5 years

Dimensions



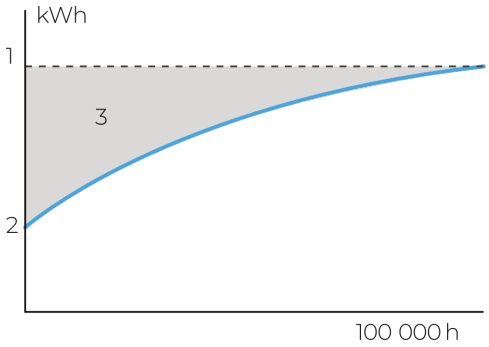
Light distribution



Constant Light Output (CLO)

This system compensates for the depreciation of luminousflux to avoid excess lightingat the beginningof the installation's service life. Luminous depreciation over time must be taken into account to ensure a predefined lightinglevel duringthe luminaire's usefullife.

Without a CLO feature, this simply means increasingthe initial power upon installationin order tomake up for luminous depreciation. By precisely controlling the luminous flux,the energy needed to reach the required level can be maintained throughout the luminaire's life.



A. Dimming level
B. Time

DALI 2

DALI (Digital Addressable Lighting Interface) is an international standard for digital lighting control systems. It enables individual control of each luminaire in the network using digital signals - unlike traditional analog solutions.

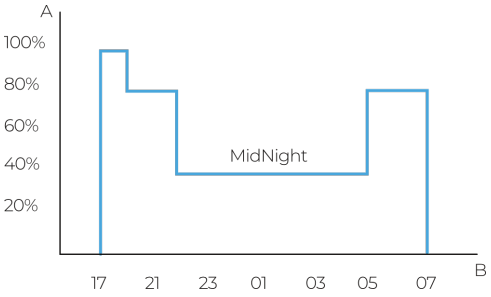
Key DALI2 innovations:
Advanced diagnostic capabilities
Better fault reporting and device status
Enhanced scene programming options
Support for RGB/RGBW and tunable white

MidNight function

The MidNight function feature allows an autonomous dimming without the need for an additional control line. The output levels can be set to 0% (OFF) or between 10% and 100% in steps of 1%

Time-based: The dimming profile defined in the reference schedule is referenced to the switchon time of the LED driver.

Astro-based: The dimming profile defined in the reference schedule is referenced to the annual average middle of the night, which is calculated based on the theoretical sunrise and sunset times.



1. Standard lighting level
2. LED lighting consumption with CLO
3. Energy savings