Technical datasheet
LUKA-S-727-2-C16505

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.
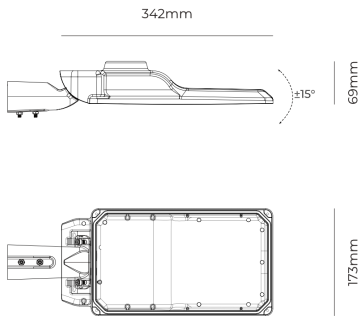
LED   220-240 V 50-60 Hz   IP**66**   CE   CCT 2700 k   CRI 70+   Di⁴   CLO   MidNight Multi-Step Dimming   DALI

Product technical data

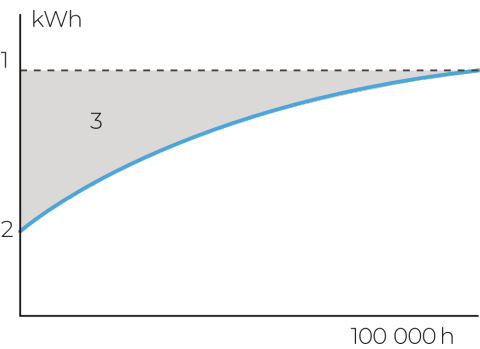|			
Mains voltage	220 - 240V AC, 50/60Hz	Ripple	2 %
Connection method	Connection cable	DALI address	1
Dimming type	DALI	Standby power	0.50 W
		Inrush current	46 A
IP rating	66	Inrush time	728 µs
Protection class	I		
Ambient temperature	-40 to +40 °C	Optical system	Lenses
		Optical part material	Hardened glass
Light source	LED	Housing material	Die-cast aluminium
Colour temperature	2700k	Surface finish	Powder coated
Color rendering index	70		
Rated luminous flux	3,175 lm	Width	173.00 cm
Connected load	26.03 W	Height	69.00 cm
Luminous efficacy	122.0 lm/W	Length	342.00 cm
		Weight	5.00 kg
		Service lifetime (L 80 B10)	>100 000 h
		Warranty	5 years

Dimensions

342mm

±15°

69mm

173mm

Light distribution

Constant Light Output (CLO)

This system compensates for the depreciation of luminous flux to avoid excess lighting at the beginning of the installation's service life. Luminous depreciation over time must be taken into account to ensure a predefined lighting level during the luminaire's useful life.

Without a CLO feature, this simply means increasing the initial power upon installation in order to make 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.
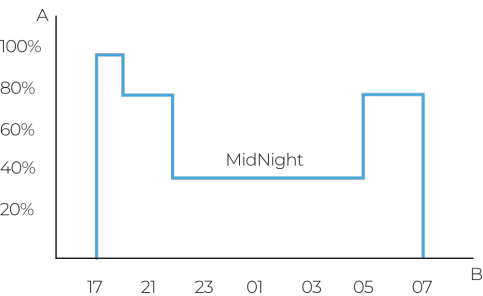
Key DALI2 innovations:
Advanced diagnostic capabilities
Better fault reporting and device status
Enhanced scene programming options
Support for RGB/RGBW and tunable white

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

ARLI