# Technical datasheet

LUKA-XL-740-2-C16926



## 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.

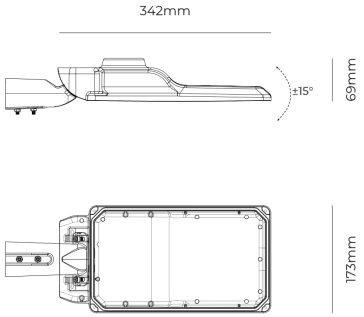
LED 220-240V 50-60Hz IP66 CCT 4000 k CRI 70+ CLO

## Product technical data

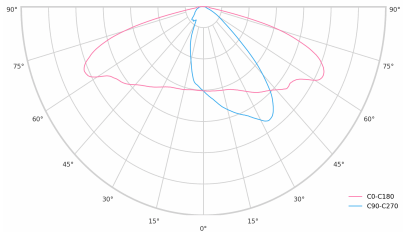
| | |
|---|---|
| Mains voltage | 220 - 240V AC, 50/60Hz |
| Connection method | Connection cable |
| Dimming type | DALI |
| IP rating | 66 |
| Protection class | I |
| Ambient temperature | -40 to +40 °C |
| Light source | LED |
| Colour temperature | 4000k |
| Color rendering index | 70 |
| Rated luminous flux | 6,386 lm |
| Connected load | 55.26 W |
| Luminous efficacy | 115.6 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



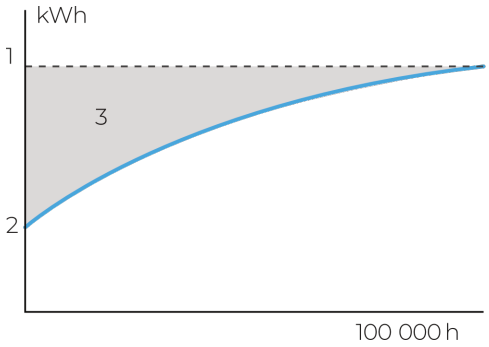

## Light distribution



## 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.

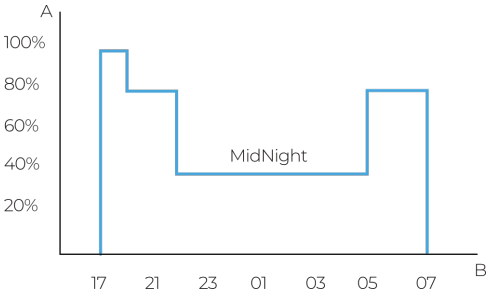
**Key DALI2 innovations:**
Advanced diagnostic capabilities
Better fault reporting and device status
Enhanced scene programming options
Support for RGB/RGBW and tunable white

## 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