

# Technical datasheet

## LUKA-XL-727-2-C13858



### 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

IP66

CE

CCT  
2700 k

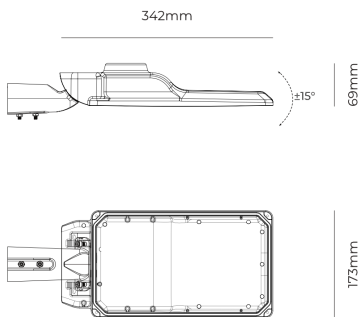
CRI  
70+

CLO

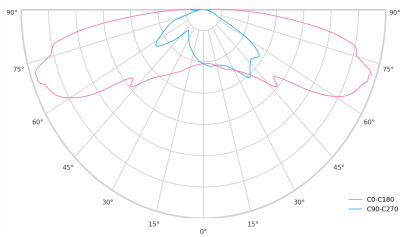
### Product technical data

|                       |                        |                            |                    |
|-----------------------|------------------------|----------------------------|--------------------|
| Mains voltage         | 220 - 240V AC, 50/60Hz | Ripple                     | 3 %                |
| Connection method     | Connection cable       | DALI address               | 1                  |
| Dimming type          | DALI                   | Standby power              | 0.50 W             |
| IP rating             | 66                     | Inrush current             | 85 A               |
| Protection class      | I                      | Inrush time                | 256 µs             |
| Ambient temperature   | -40 to +40 °C          | Optical system             | Lenses             |
| Light source          | LED                    | Optical part material      | Hardened glass     |
| Colour temperature    | 2700k                  | Housing material           | Die-cast aluminium |
| Color rendering index | 70                     | Surface finish             | Powder coated      |
| Rated luminous flux   | 5,964 lm               |                            |                    |
| Connected load        | 56.50 W                | Service lifetime (L80 B10) | >100 000 h         |
| Luminous efficacy     | 105.6 lm/W             | 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.

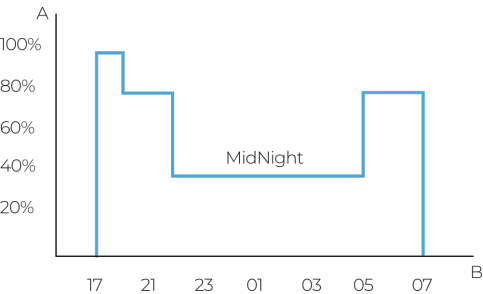
- Key DALI2 innovations:
- Advanced diagnostic capabilities
  - Better fault reporting and device status
  - Enhanced scene programming options
  - Support for RGB/RGBW and tunable white

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