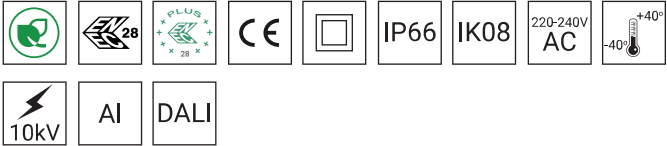
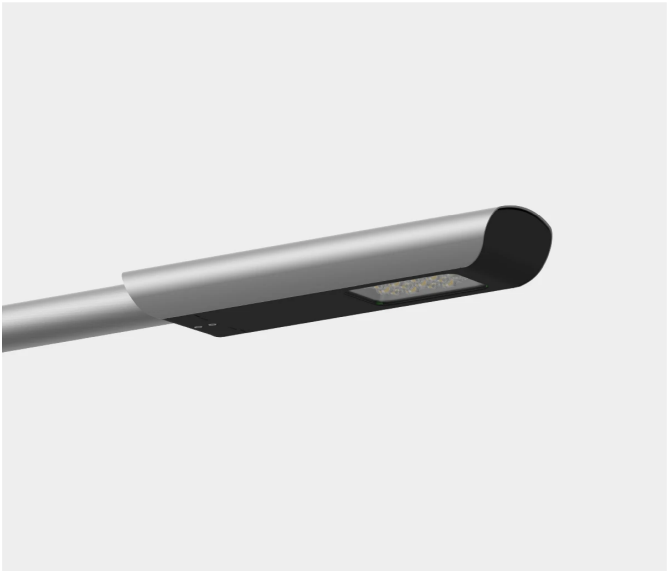


# CUDDLE MINI LED 60



## TECHNICAL DATA

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Application                 | urban roads, residential roads (internal), pedestrians, parkings                                                                 |
| Assembly                    | on extension arms with $\varnothing$ 60 x 100 mm ending                                                                          |
| Colour                      | inox / black                                                                                                                     |
| Ingress protection          | IP 66 for the optical part and the driver                                                                                        |
| Optical system              | PMMA optics, interchangeable LED module, tempered glass diffuser                                                                 |
| Material                    | anodised aluminium alloy                                                                                                         |
| Unit volume                 | 0.01 m <sup>3</sup>                                                                                                              |
| Operating temperature range | from -40°C to +40°C                                                                                                              |
| Expected useful lifetime    | L90B10 - 100 000 h                                                                                                               |
| CRI                         | >70                                                                                                                              |
| Inrush current              | 18 A / 280 $\mu$ s (CUDDLE MINI LED 24 - 36 W), 98 A / 120 $\mu$ s (CUDDLE MINI LED 48 - 60 W)                                   |
| Input voltage frequency     | 50/60Hz                                                                                                                          |
| Power factor                | $\geq$ 0.95                                                                                                                      |
| Number of LED               | 16                                                                                                                               |
| Control system              | Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V). |

| Code                      | Symbol             | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux <sup>1</sup> | Luminaire luminous flux <sup>1</sup> | Luminous efficacy <sup>1</sup> | Net weight |
|---------------------------|--------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|
| 222734/4/... <sup>2</sup> | CUDDLE MINI LED 60 | 60 W      | 67 W                        | 625 mA              | 4000 K                   | 11250 lm                        | 8200 lm                              | 122 lm/W                       | 3.7 kg     |

- 1) tolerance +/- 5% due to LEDs accuracy  
2) symbol of chosen optical system eg. 222733/6/T2 is CUDDLE MINI LED 48 5000K with T2 optical system

\*For the CUDDLE MINI LED luminaire with P2 and PL optics it is possible to choose an additional light colour temperature: 5700K. The product code is then supplemented with the designation '/7'. Example: 222733/7/P2 -CUDDLE MINI LED 48W 5700K luminaire with P2 optics

## DIRECTIVES AND STANDARDS

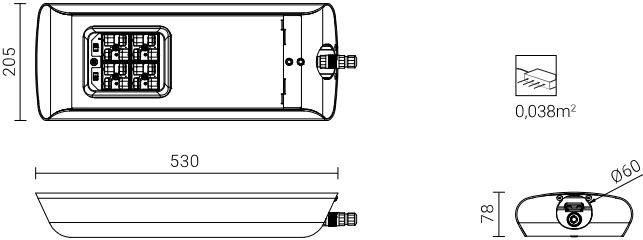
**DIRECTIVES:** 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)  
**STANDARDS:** PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

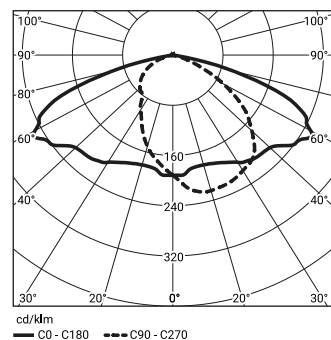
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:  
- functional grounding  
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

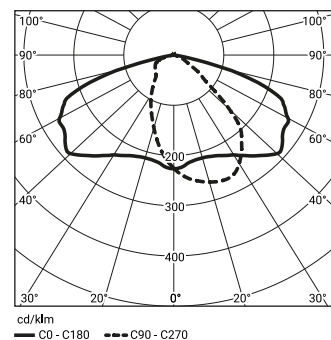


## PHOTOMETRIC CURVES

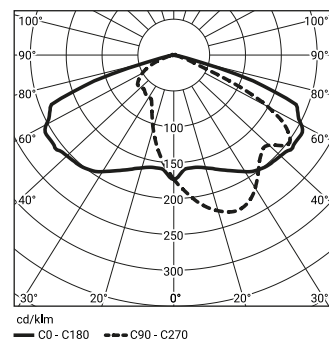
DW



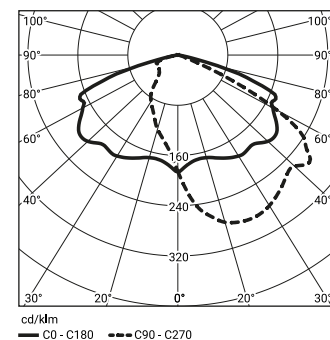
LN



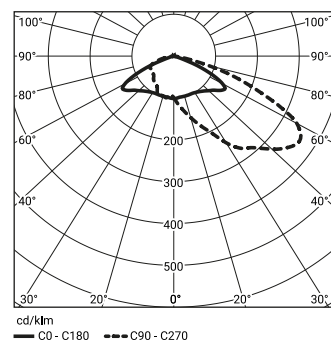
T3



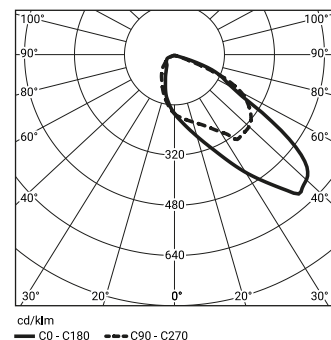
LW



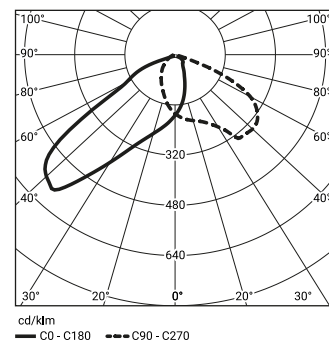
T4



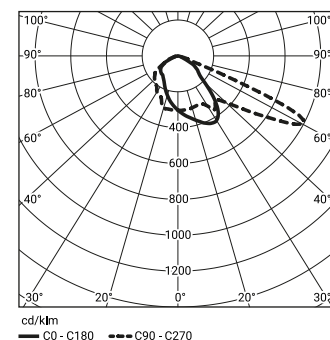
PP



PL



P2



## POWER SYSTEM FUNCTIONS

**Luminaire in standard has following functions of intelligent power supply:**

- Connection to outside control system by DALI interface (operation of analog signal 1-10V as an option),
- Possibility of programming multistage dimming of luminaire, up to 5 intervals in the range of from 10 to 100% of nominal power,
- LED module equipped with thermal protection implemented via an NTC thermistor,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

## ACCETABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

| Luminaire               | Typ | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-------------------------|-----|----|----|----|-----|-----|-----|-----|
| CUDDLE MINI LED 24, 36W | B   | 4  | 7  | 12 | 18  | 30  | 37  | 46  |
|                         | C   | 4  | 12 | 18 | 31  | 51  | 62  | 78  |
| CUDDLE MINI LED 48W     | B   | 1  | 2  | 4  | 6   | 10  | 12  | 15  |
|                         | C   | 1  | 4  | 6  | 10  | 17  | 20  | 26  |
| CUDDLE MINI LED 60W     | B   | 1  | 2  | 4  | 6   | 10  | 12  | 15  |
|                         | C   | 1  | 4  | 6  | 10  | 17  | 20  | 26  |

Fuse – type gG and GL

| Luminaire               | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-------------------------|----|----|----|-----|-----|-----|-----|
| CUDDLE MINI LED 24, 36W | 1  | 10 | 20 | 26  | 52  | 71  | 101 |
| CUDDLE MINI LED 48W     | 0  | 4  | 8  | 11  | 22  | 31  | 44  |
| CUDDLE MINI LED 60W     | 0  | 2  | 4  | 5   | 10  | 14  | 20  |