



## TECHNICAL DATA

|                                 |                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>              | urban roads, residential roads (internal), pedestrians, parkings                                                                 |
| <b>Assembly</b>                 | on extension arms with ø 60 x 100 mm ending                                                                                      |
| <b>Colour</b>                   | inox / black                                                                                                                     |
| <b>Ingress protection</b>       | IP 66 for the optical part and the driver                                                                                        |
| <b>Optical system</b>           | PMMA optics, interchangeable LED module, tempered glass diffuser                                                                 |
| <b>Material</b>                 | anodised aluminium alloy                                                                                                         |
| <b>Expected useful lifetime</b> | L90B10 - 100 000 h                                                                                                               |
| <b>CRI</b>                      | >70                                                                                                                              |
| <b>Input voltage frequency</b>  | 50/60Hz                                                                                                                          |
| <b>Power factor</b>             | ≥0.95                                                                                                                            |
| <b>Number of LED</b>            | 16                                                                                                                               |
| <b>Control system</b>           | Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V). |



## TABLE OF TYPES

| 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> | Unit volume | Net weight |
|---------------------------|--------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|-------------|------------|
| 222730/1/... <sup>2</sup> | CUDDLE MINI LED 24 | 24 W      | 26 W                        | 250 mA              | 2700 K                   | 4450 lm                         | 3250 lm                              | 125 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222730/3/... <sup>2</sup> | CUDDLE MINI LED 24 | 24 W      | 26 W                        | 250 mA              | 3500 K                   | 4650 lm                         | 3400 lm                              | 131 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222730/4/... <sup>2</sup> | CUDDLE MINI LED 24 | 24 W      | 26 W                        | 250 mA              | 4000 K                   | 4800 lm                         | 3500 lm                              | 135 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222730/6/... <sup>2</sup> | CUDDLE MINI LED 24 | 24 W      | 26 W                        | 250 mA              | 5000 K                   | 4750 lm                         | 3450 lm                              | 133 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222732/1/... <sup>2</sup> | CUDDLE MINI LED 36 | 36 W      | 39 W                        | 375 mA              | 2700 K                   | 6550 lm                         | 4800 lm                              | 123 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222732/3/... <sup>2</sup> | CUDDLE MINI LED 36 | 36 W      | 39 W                        | 375 mA              | 3500 K                   | 6850 lm                         | 5000 lm                              | 128 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222732/4/... <sup>2</sup> | CUDDLE MINI LED 36 | 36 W      | 39 W                        | 375 mA              | 4000 K                   | 7050 lm                         | 5150 lm                              | 132 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222732/6/... <sup>2</sup> | CUDDLE MINI LED 36 | 36 W      | 39 W                        | 375 mA              | 5000 K                   | 6950 lm                         | 5050 lm                              | 129 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222733/1/... <sup>2</sup> | CUDDLE MINI LED 48 | 48 W      | 54 W                        | 500 mA              | 2700 K                   | 8550 lm                         | 6250 lm                              | 116 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222733/3/... <sup>2</sup> | CUDDLE MINI LED 48 | 48 W      | 54 W                        | 500 mA              | 3500 K                   | 8950 lm                         | 6500 lm                              | 120 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222733/4/... <sup>2</sup> | CUDDLE MINI LED 48 | 48 W      | 54 W                        | 500 mA              | 4000 K                   | 9200 lm                         | 6700 lm                              | 124 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222733/6/... <sup>2</sup> | CUDDLE MINI LED 48 | 48 W      | 54 W                        | 500 mA              | 5000 K                   | 9050 lm                         | 6600 lm                              | 122 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222734/1/... <sup>2</sup> | CUDDLE MINI LED 60 | 60 W      | 67 W                        | 625 mA              | 2700 K                   | 10450 lm                        | 7650 lm                              | 114 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222734/3/... <sup>2</sup> | CUDDLE MINI LED 60 | 60 W      | 67 W                        | 625 mA              | 3500 K                   | 10950 lm                        | 7950 lm                              | 119 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222734/4/... <sup>2</sup> | CUDDLE MINI LED 60 | 60 W      | 67 W                        | 625 mA              | 4000 K                   | 11250 lm                        | 8200 lm                              | 122 lm/W                       | 0.01 m³     | 3.7 kg     |
| 222734/6/... <sup>2</sup> | CUDDLE MINI LED 60 | 60 W      | 67 W                        | 625 mA              | 5000 K                   | 11050 lm                        | 8050 lm                              | 120 lm/W                       | 0.01 m³     | 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

## 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, 2009/125/EC

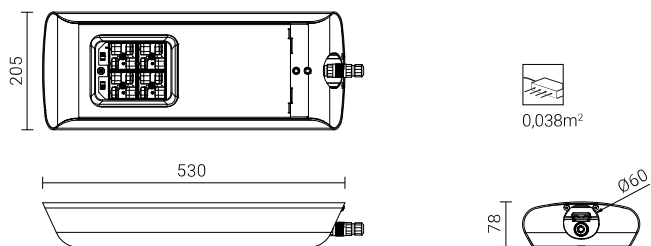
**STANDARDS:** PN-EN 60598-1: 2015, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2013, PN-EN 61547: 2009, PN-EN 61000-3-2: 2014, PN-EN 61000-3-3: 2013

## CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

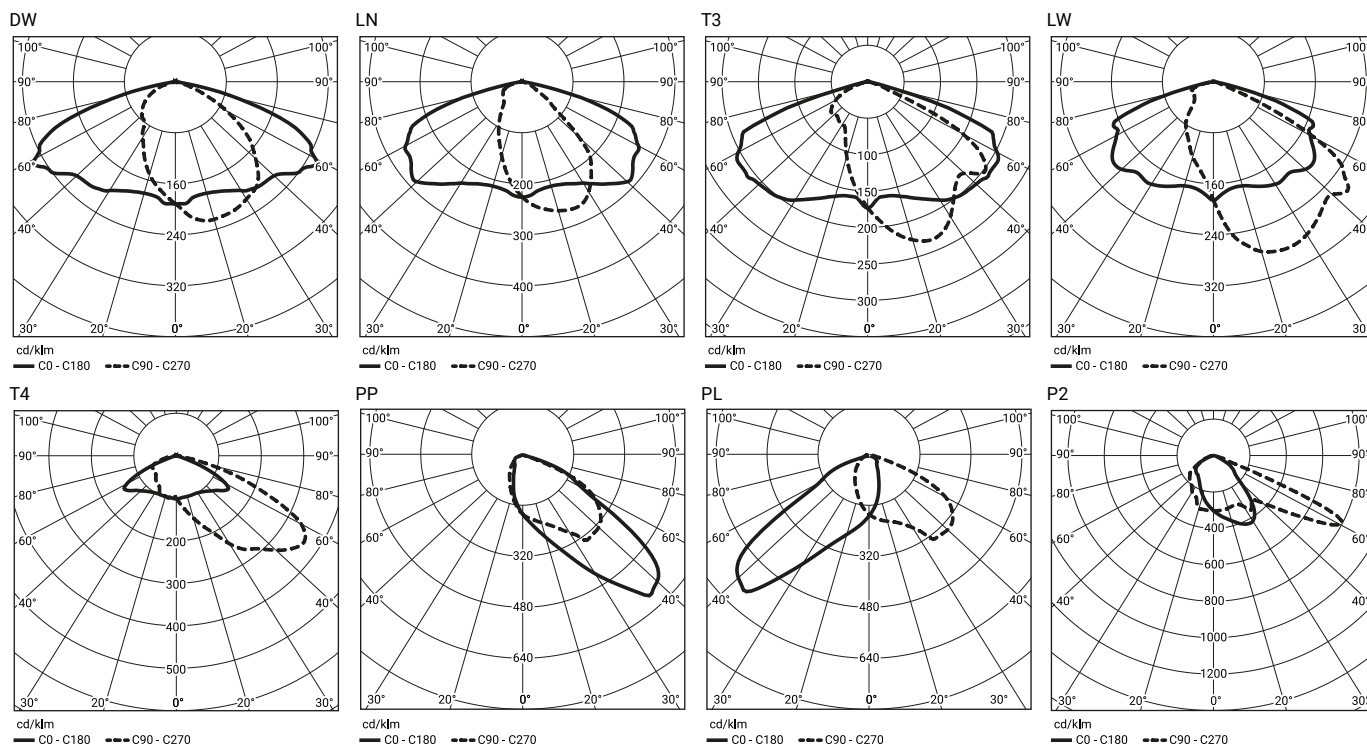
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING



## PHOTOMETRIC CURVES



## 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,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- 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   | 4  | 8  | 13 | 20  | 33  | 41  | 51  |
|                         | C   | 4  | 13 | 20 | 34  | 56  | 68  | 85  |

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   | 11  | 16  | 22  |