



TECHNICAL DATA

| | |
|------------------------------------|--|
| Application | motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings |
| Assembly | on extension arms with ø 60 x 100 mm ending |
| Colour | inox / black |
| Ingress protection | IP 66 for the optical part and the driver |
| Material | anodised aluminium alloy |
| Operating temperature range | from -40°C to +55°C (for 48 W, 60 W, 72 W, 96 W, 120 W), from -40°C to +40°C (for 144 W) |
| Expected useful lifetime | L90B10 - 100 000 h |
| Input voltage frequency | 50/60Hz |
| Power factor | ≥0.95 |
| Control system | Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V). |

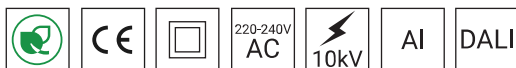


TABLE OF TYPES

| Code | Symbol | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux | Luminaire luminous flux | Luminous efficacy | Unit volume | Net weight |
|---------------------------|--------|-----------|-----------------------------|---------------------|--------------------------|--------------------|-------------------------|-------------------|-------------|------------|
| 222333/1/... ² | - | 48 W | 55 W | 700 mA | 2700 K | 7050 lm | 6450 lm | 118 lm/W | 0.022 m3 | 8 kg |
| 222333/3/... ² | - | 48 W | 55 W | 700 mA | 3500 K | 7350 lm | 6800 lm | 124 lm/W | 0.022 m3 | 8 kg |
| 222333/4/... ² | - | 48 W | 55 W | 700 mA | 4000 K | 8400 lm | 7650 lm | 139 lm/W | 0.022 m3 | 8 kg |
| 222333/6/... ² | - | 48 W | 55 W | 700 mA | 5000 K | 8450 lm | 7700 lm | 140 lm/W | 0.022 m3 | 8 kg |
| 222334/1/... ² | - | 60 W | 67 W | 830 mA | 2700 K | 8150 lm | 7450 lm | 112 lm/W | 0.022 m3 | 8 kg |
| 222334/3/... ² | - | 60 W | 67 W | 830 mA | 3500 K | 8500 lm | 7800 lm | 117 lm/W | 0.022 m3 | 8 kg |
| 222334/4/... ² | - | 60 W | 67 W | 830 mA | 4000 K | 9650 lm | 8850 lm | 133 lm/W | 0.022 m3 | 8 kg |
| 222334/6/... ² | - | 60 W | 67 W | 830 mA | 5000 K | 9850 lm | 9000 lm | 135 lm/W | 0.022 m3 | 8 kg |
| 222335/1/... ² | - | 72 W | 79 W | 1000 mA | 2700 K | 9450 lm | 8650 lm | 110 lm/W | 0.022 m3 | 8 kg |
| 222335/3/... ² | - | 72 W | 79 W | 1000 mA | 3500 K | 9900 lm | 9100 lm | 116 lm/W | 0.022 m3 | 8 kg |
| 222335/4/... ² | - | 72 W | 79 W | 1000 mA | 4000 K | 11250 lm | 10300 lm | 131 lm/W | 0.022 m3 | 8 kg |
| 222335/6/... ² | - | 72 W | 79 W | 1000 mA | 5000 K | 11450 lm | 10450 lm | 133 lm/W | 0.022 m3 | 8 kg |
| 222337/1/... ² | - | 96 W | 105 W | 700 mA | 2700 K | 14100 lm | 12900 lm | 123 lm/W | 0.045 m3 | 9 kg |
| 222337/3/... ² | - | 96 W | 105 W | 700 mA | 3500 K | 14700 lm | 13600 lm | 130 lm/W | 0.045 m3 | 9 kg |
| 222337/4/... ² | - | 96 W | 105 W | 700 mA | 4000 K | 16800 lm | 15300 lm | 146 lm/W | 0.045 m3 | 9 kg |
| 222337/6/... ² | - | 96 W | 105 W | 700 mA | 5000 K | 16900 lm | 15400 lm | 147 lm/W | 0.045 m3 | 9 kg |
| 222339/1/... ² | - | 120 W | 129 W | 830 mA | 2700 K | 16300 lm | 14900 lm | 116 lm/W | 0.045 m3 | 9 kg |
| 222339/3/... ² | - | 120 W | 129 W | 830 mA | 3500 K | 17000 lm | 15600 lm | 121 lm/W | 0.045 m3 | 9 kg |
| 222339/4/... ² | - | 120 W | 129 W | 830 mA | 4000 K | 19300 lm | 17700 lm | 138 lm/W | 0.045 m3 | 9 kg |
| 222339/6/... ² | - | 120 W | 129 W | 830 mA | 5000 K | 19700 lm | 18000 lm | 140 lm/W | 0.045 m3 | 9 kg |
| 222341/1/... ² | - | 144 W | 154 W | 1000 mA | 3500 K | 18900 lm | 17300 lm | 113 lm/W | 0.045 m3 | 9 kg |
| 222341/3/... ² | - | 144 W | 154 W | 1000 mA | 3500 K | 19800 lm | 18200 lm | 119 lm/W | 0.045 m3 | 9 kg |
| 222341/4/... ² | - | 144 W | 154 W | 1000 mA | 4000 K | 22500 lm | 20600 lm | 134 lm/W | 0.045 m3 | 9 kg |
| 222341/6/... ² | - | 144 W | 154 W | 1000 mA | 5000 K | 22900 lm | 20900 lm | 136 lm/W | 0.045 m3 | 9 kg |

1) tolerance +/- 5% due to LEDs accuracy

2) symbol of chosen optical system eg. 222333/6/T2 is CUDDLE 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

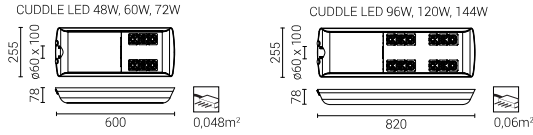
STANDARDS: -

CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

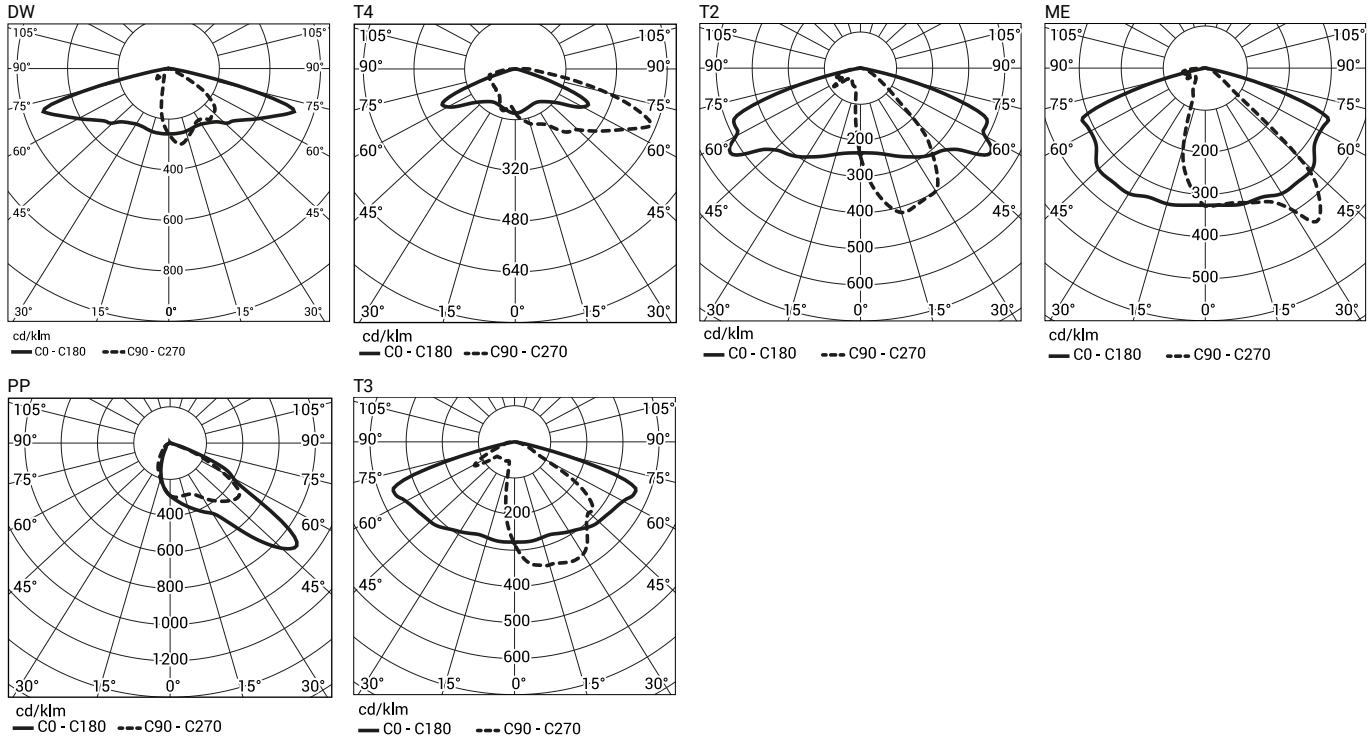
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- 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 LED 48, 60, 72W | B | 1 | 2 | 4 | 6 | 11 | 13 | 17 |
| | C | 1 | 4 | 6 | 11 | 18 | 22 | 28 |
| Cuddle LED 96, 120, 144W | B | 1 | 1 | 3 | 5 | 8 | 12 | 12 |
| | C | 1 | 3 | 5 | 8 | 13 | 16 | 20 |

Fuse – type gG and GL

| Luminaire | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------------|----|----|----|-----|-----|-----|-----|
| Cuddle LED 48, 60, 72W | 1 | 2 | 11 | 19 | 30 | 38 | 47 |
| Cuddle LED 96, 120, 144W | 1 | 1 | 6 | 9 | 15 | 19 | 24 |