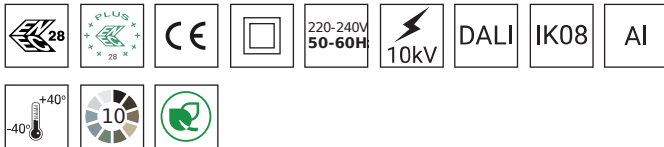




TECHNICAL DATA

| | |
|------------------------------------|--|
| Assembly | on extension arms with \varnothing 60 x 100 mm ending |
| Application | motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings |
| Colour | inox / black |
| Ingress protection | IP 66 for the optical part and the driver |
| Optical system | PMMA optics, interchangeable LED module, PC-UV diffuser |
| Material | anodised aluminium alloy |
| Unit volume | 0,024 m ³ (CUDDLE II LED D4i 48 - 72) 0,033 m ³ (CUDDLE II LED D4i 96 - 192) |
| Operating temperature range | from -40°C to +40°C |
| Expected useful lifetime | L90B10 - 100 000 h |
| CRI | >70 |
| Inrush current | 43 A / 260 μ s (CUDDLE II LED 48 - 72) 77 A / 150 μ s (CUDDLE II LED 96 - 144) 11,5 A / 1320 μ s (CUDDLE II LED 192) |
| Input voltage frequency | 50/60Hz |
| Power factor | \geq 0.95 |
| Number of LED | 64 |
| 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 ¹ | Luminaire luminous flux ¹ | Luminous efficacy ¹ | Net weight |
|----------------------------|-------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|
| 2223046/4/... ² | CUDDLE II LED 192 | 192 W | 205 W | 1000 mA | 4000 K | 31350 lm | 26700 lm | 130 lm/W | 8.2 kg |

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

2) symbol of chosen optical system eg. 2223033/6/T2 is CUDDLE II LED 48 5000K with T2 optical system

*For the CUDDLE II 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: 2223033/7/P2 -CUDDLE II 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, PN-EN 62722-2-1 (tq=40°C)

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

REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

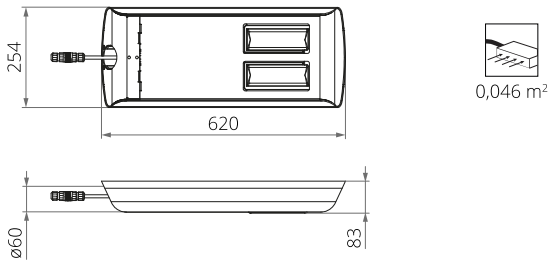
- functional grounding
- LED luminaire with an additional protection device

CUDDLE II LED 192

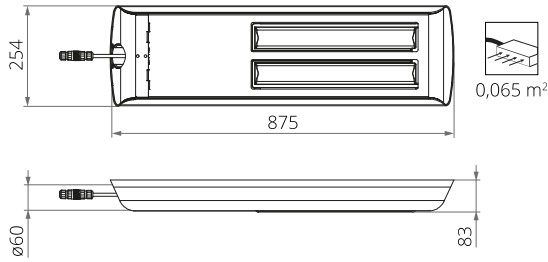


TECHNICAL DRAWING

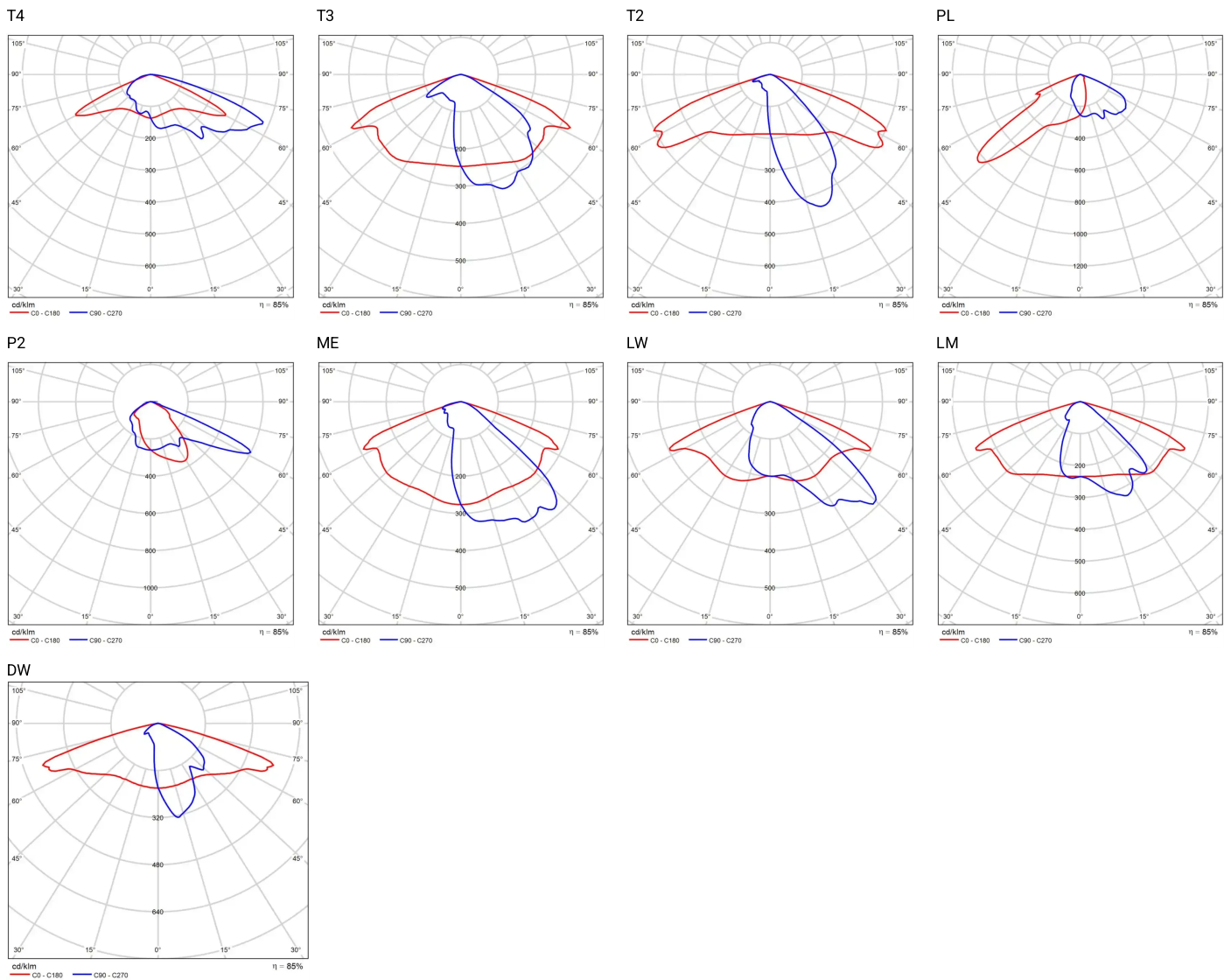
CUDDLE II LED 48W, 60W, 72W



CUDDLE II LED 96W, 120W, 144W, 192W



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,
- 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,

ACCEPTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

| Luminaire | Typ | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|--------------------------------|-----|----|----|----|-----|-----|-----|-----|
| CUDDLE II LED 48, 60, 72W | B | 1 | 2 | 4 | 6 | 10 | 12 | 15 |
| | C | 1 | 4 | 6 | 10 | 17 | 20 | 26 |
| CUDDLE II LED 96, 120, 144W | B | 1 | 2 | 3 | 5 | 9 | 11 | 14 |
| | C | 1 | 3 | 5 | 9 | 15 | 18 | 23 |
| CUDDLE II LED 192W | 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 II LED 48, 60, 72W | 0 | 4 | 8 | 11 | 22 | 31 | 44 |
| CUDDLE II LED 96, 120, 144W | 0 | 3 | 6 | 8 | 16 | 22 | 29 |
| CUDDLE II LED 192W | 1 | 3 | 5 | 8 | 14 | 17 | 22 |

CHROMATICITY

| Chromaticity | x | y |
|--------------|--------|--------|
| 2700K | 0,4582 | 0,4099 |
| 3500K | 0,4080 | 0,3916 |
| 4000K | 0,3825 | 0,3798 |
| 5000K | 0,3451 | 0,3554 |

PHOTOMETRIC CODE

| | |
|-------|---------|
| 2700K | 727/559 |
| 3500K | 735/559 |
| 4000K | 740/559 |
| 5000K | 750/559 |