

TECHNICAL DATA

| | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Assembly | directly on column with \varnothing 60 ending or on extension arm with \varnothing 60 x 100 mm ending |
| Application | urban roads, residential roads (internal), pedestrians, parkings |
| Ingress protection | IP 66 for the optical part and the driver |
| Optical system | PMMA optics, interchangeable LED module |
| Material | anodised aluminium alloy, diffuser – tempered glass |
| Unit volume | 0,013 m ³ |
| Operating temperature range | from -40°C to +40°C |
| Expected useful lifetime | L90B10 - 100 000 h |
| CRI | >70 |
| Inrush current | 24,6 A / 195,5 μ s (12 W - 36 W) 98 A / 120 μ s (48 W - 60 W) |
| Input voltage frequency | 50/60Hz |
| Power factor | \geq 0,95 |
| Number of LED | 16 |
| Control system | Luminaire can be connected to an external control system and / or sensors via socket compatible with Zhaga Book 18 |

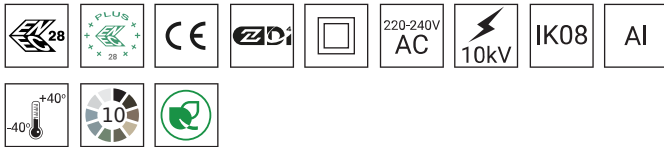


TABLE OF VARIANTS

| Code | Symbol | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux ¹ | Luminaire luminous flux ¹ | Luminous efficacy ¹ | D4i socket | Net weight |
|----------------------------|------------------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|------------|
| 2228227/1/... ² | CUDDLE MINI LED REG D4i 24 | 12 W | 15 W | 140 mA | 2700 K | 2450 lm | 2050 lm | 137 lm/W | 1 ↑ | 4,8 kg |
| 2228227/3/... ² | CUDDLE MINI LED REG D4i 24 | 12 W | 15 W | 140 mA | 3500 K | 2600 lm | 2150 lm | 143 lm/W | 1 ↑ | 4,8 kg |
| 2228227/4/... ² | CUDDLE MINI LED REG D4i 24 | 12 W | 15 W | 140 mA | 4000 K | 2650 lm | 2200 lm | 147 lm/W | 1 ↑ | 4,8 kg |
| 2228227/6/... ² | CUDDLE MINI LED REG D4i 24 | 12 W | 15 W | 140 mA | 5000 K | 2600 lm | 2150 lm | 143 lm/W | 1 ↑ | 4,8 kg |
| 2228230/1/... ² | CUDDLE MINI LED REG D4i 24 | 24 W | 26 W | 250 mA | 2700 K | 4250 lm | 3550 lm | 137 lm/W | 1 ↑ | 4,8 kg |
| 2228230/3/... ² | CUDDLE MINI LED REG D4i 24 | 24 W | 26 W | 250 mA | 3500 K | 4450 lm | 3700 lm | 142 lm/W | 1 ↑ | 4,8 kg |
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| 2228232/1/... ² | CUDDLE MINI LED REG D4i 36 | 36 W | 39 W | 375 mA | 2700 K | 6200 lm | 5150 lm | 132 lm/W | 1 ↑ | 4,8 kg |
| 2228232/3/... ² | CUDDLE MINI LED REG D4i 36 | 36 W | 39 W | 375 mA | 3500 K | 6500 lm | 5400 lm | 138 lm/W | 1 ↑ | 4,8 kg |
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| 2228232/6/... ² | CUDDLE MINI LED REG D4i 36 | 36 W | 39 W | 375 mA | 5000 K | 6550 lm | 5450 lm | 140 lm/W | 1 ↑ | 4,8 kg |
| 2228233/1/... ² | CUDDLE MINI LED REG D4i 48 | 48 W | 54 W | 500 mA | 2700 K | 7950 lm | 6600 lm | 122 lm/W | 1 ↑ | 4,8 kg |
| 2228233/3/... ² | CUDDLE MINI LED REG D4i 48 | 48 W | 54 W | 500 mA | 3500 K | 8300 lm | 6900 lm | 128 lm/W | 1 ↑ | 4,8 kg |
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| 2228234/1/... ² | CUDDLE MINI LED REG D4i 60 | 60 W | 67 W | 625 mA | 2700 K | 9650 lm | 8000 lm | 119 lm/W | 1 ↑ | 4,8 kg |
| 2228234/3/... ² | CUDDLE MINI LED REG D4i 60 | 60 W | 67 W | 625 mA | 3500 K | 10100 lm | 8400 lm | 125 lm/W | 1 ↑ | 4,8 kg |
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| 2228627/1/... ² | CUDDLE MINI LED REG D4i D 24 | 12 W | 15 W | 140 mA | 2700 K | 2450 lm | 2050 lm | 137 lm/W | 1 ↓ | 4,8 kg |
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CUDDLE MINI LED REG D4I



| | | | | | | | | | | |
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| 2228632/6/... ² | CUDDLE MINI LED REG D4i D 36 | 36 W | 39 W | 375 mA | 5000 K | 6550 lm | 5450 lm | 140 lm/W | 1 ↓ | 4,8 kg |
| 2228633/1/... ² | CUDDLE MINI LED REG D4i D 48 | 48 W | 54 W | 500 mA | 2700 K | 7950 lm | 6600 lm | 122 lm/W | 1 ↓ | 4,8 kg |
| 2228633/3/... ² | CUDDLE MINI LED REG D4i D 48 | 48 W | 54 W | 500 mA | 3500 K | 8300 lm | 6900 lm | 128 lm/W | 1 ↓ | 4,8 kg |
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| 2228634/1/... ² | CUDDLE MINI LED REG D4i D 60 | 60 W | 67 W | 625 mA | 2700 K | 9650 lm | 8000 lm | 119 lm/W | 1 ↓ | 4,8 kg |
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1) tolerance +/- 5% due to LEDs accuracy

2) symbol of chosen optical system eg. 22283/6/T2 is CUDDLE MINI LED REG D4i 48 5000 K with T2 optical system

*For the CUDDLE MINI LED REG D4i luminaire with P2 and PL optics it is possible to choose an additional light colour temperature: 5700 K. The product code is then supplemented with the designation '/7'. Example: 22283/7/P2 -CUDDLE MINI LED REG D4i 48 W 5700 K 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

REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

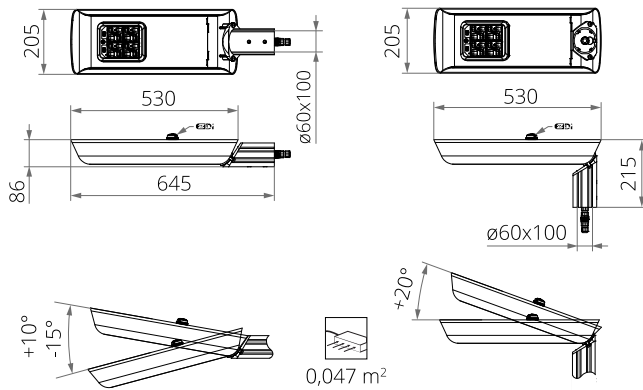
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

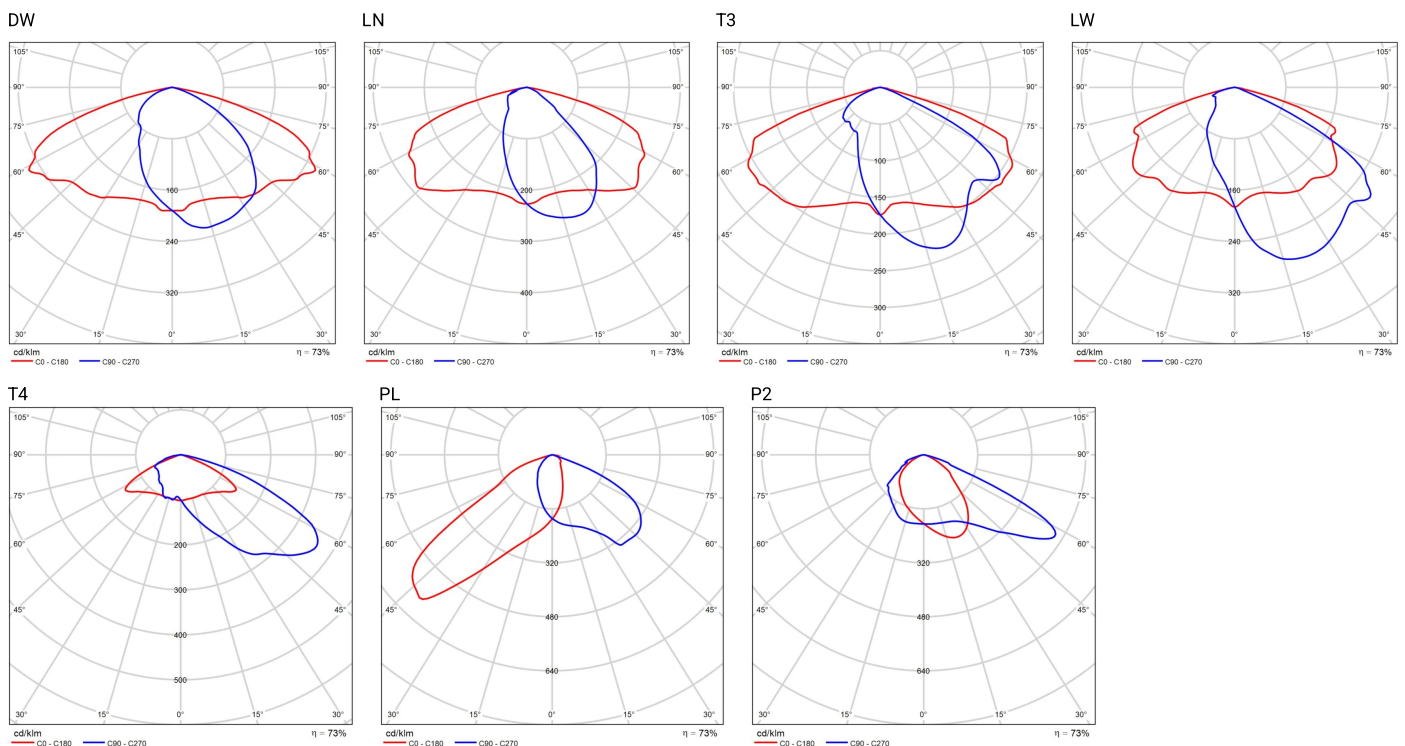
CUDDLE MINI LED REG D4i



TECHNICAL DRAWING



PHOTOMETRIC CURVES



POWER SYSTEM FUNCTIONS

Luminaire in standard has following functions of intelligent power supply:

- 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

| Luminaire | Type | 2 A | 4 A | 6 A | 10 A | 16 A | 20 A | 25 A |
|---------------------------------------------|------|-----|-----|-----|------|------|------|------|
| CUDDLE MINI LED REG D4i 12 W, 24 W, 36 W | B | 4 | 7 | 12 | 18 | 30 | 37 | 46 |
| | C | 4 | 10 | 16 | 27 | 43 | 54 | 68 |
| CUDDLE MINI LED REG D4i 48 W, 60 W | B | 1 | 2 | 4 | 6 | 10 | 12 | 15 |
| | C | 1 | 4 | 6 | 10 | 17 | 20 | 26 |

Fuse – type gG and GL

| Luminaire | 2 A | 4 A | 6 A | 10 A | 16 A | 20 A | 25 A |
|-----------------------------------------|-----|-----|-----|------|------|------|------|
| CUDDLE MINI LED REG D4i 12, 24, 36 W | 1 | 10 | 20 | 26 | 52 | 71 | 101 |
| CUDDLE MINI LED REG D4i 48 W | 1 | 10 | 16 | 26 | 43 | 54 | 68 |
| CUDDLE MINI LED REG D4i 60 W | 0 | 2 | 4 | 5 | 10 | 14 | 20 |