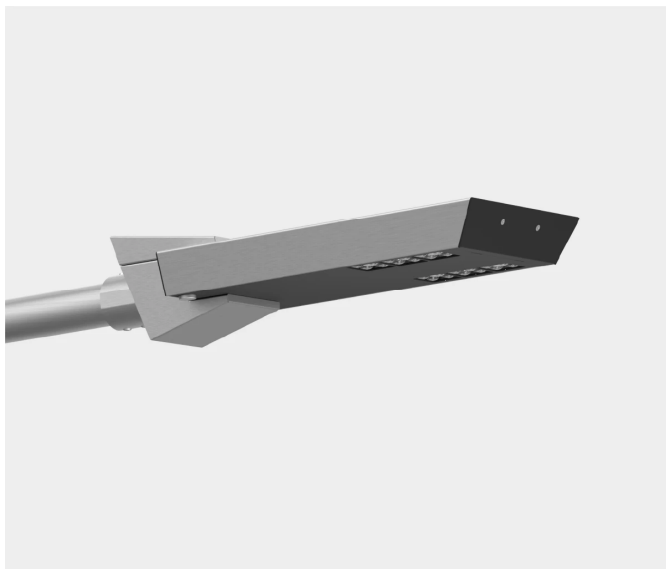


## TECHNICAL DATA

|                                    |                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>                 | motorways and expressway, urban roads, pedestrians, parkings                                                                     |
| <b>Assembly</b>                    | on extension arms with ø 60 x 95 mm ending                                                                                       |
| <b>Colour</b>                      | inox / black                                                                                                                     |
| <b>Ingress protection</b>          | IP 66 for the optical part and the driver                                                                                        |
| <b>Material</b>                    | anodised aluminium alloy                                                                                                         |
| <b>Unit volume</b>                 | 0.028 m³ (URSA LED 48 - 72 W), 0.037 m³ (URSA LED 96 - 144 W)                                                                    |
|                                    | -                                                                                                                                |
| <b>Operating temperature range</b> | 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)                                         |
| <b>Expected useful lifetime</b>    | L90B10 - 100 000 h                                                                                                               |
| <b>CRI</b>                         | >70                                                                                                                              |
| <b>Inrush current</b>              | 55 A / 200 µs (URSA LED 48 - 72), 67 A / 210 µs (URSA LED 96 - 144)                                                              |
|                                    | 55 A / 200 µs (URSA LED 48 - 72)<br>67 A / 210 µs (URSA LED 96 - 144)                                                            |
| <b>Input voltage frequency</b>     | 50/60Hz                                                                                                                          |
| <b>Power factor</b>                | ≥0.95                                                                                                                            |
| <b>Number of LED</b>               | 24 (48 W, 60 W, 72 W), 48 (96 W, 120 W, 144 W)                                                                                   |
| <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 VARIANTS

| Code           | Symbol       | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux¹ | Luminaire luminous flux¹ | Luminous efficacy¹ | Net weight |
|----------------|--------------|-----------|-----------------------------|---------------------|--------------------------|---------------------|--------------------------|--------------------|------------|
| 2220033/1/...² | URSA LED 48  | 48 W      | 55 W                        | 700 mA              | 2700 K                   | 8150 lm             | 7450 lm                  | 135 lm/W           | 8 kg       |
| 2220033/3/...² | URSA LED 48  | 48 W      | 55 W                        | 700 mA              | 3500 K                   | 8650 lm             | 7900 lm                  | 144 lm/W           | 8 kg       |
| 2220033/4/...² | URSA LED 48  | 48 W      | 55 W                        | 700 mA              | 4000 K                   | 9150 lm             | 8350 lm                  | 152 lm/W           | 8 kg       |
| 2220033/6/...² | URSA LED 48  | 48 W      | 55 W                        | 700 mA              | 5000 K                   | 9150 lm             | 8350 lm                  | 152 lm/W           | 8 kg       |
| 2220034/1/...² | URSA LED 60  | 60 W      | 68 W                        | 830 mA              | 2700 K                   | 9300 lm             | 8500 lm                  | 127 lm/W           | 8 kg       |
| 2220034/3/...² | URSA LED 60  | 60 W      | 68 W                        | 830 mA              | 3500 K                   | 9850 lm             | 9000 lm                  | 134 lm/W           | 8 kg       |
| 2220034/4/...² | URSA LED 60  | 60 W      | 68 W                        | 830 mA              | 4000 K                   | 10450 lm            | 9550 lm                  | 143 lm/W           | 8 kg       |
| 2220034/6/...² | URSA LED 60  | 60 W      | 68 W                        | 830 mA              | 5000 K                   | 10450 lm            | 9550 lm                  | 143 lm/W           | 8 kg       |
| 2220035/1/...² | URSA LED 72  | 72 W      | 79 W                        | 1000 mA             | 2700 K                   | 10700 lm            | 9800 lm                  | 124 lm/W           | 8 kg       |
| 2220035/3/...² | URSA LED 72  | 72 W      | 79 W                        | 1000 mA             | 3500 K                   | 11350 lm            | 10400 lm                 | 132 lm/W           | 8 kg       |
| 2220035/4/...² | URSA LED 72  | 72 W      | 79 W                        | 1000 mA             | 4000 K                   | 12100 lm            | 11050 lm                 | 140 lm/W           | 8 kg       |
| 2220035/6/...² | URSA LED 72  | 72 W      | 79 W                        | 1000 mA             | 5000 K                   | 12100 lm            | 11050 lm                 | 140 lm/W           | 8 kg       |
| 2220037/1/...² | URSA LED 96  | 96 W      | 105 W                       | 700 mA              | 2700 K                   | 16300 lm            | 14900 lm                 | 142 lm/W           | 10 kg      |
| 2220037/3/...² | URSA LED 96  | 96 W      | 105 W                       | 700 mA              | 3500 K                   | 17300 lm            | 15850 lm                 | 151 lm/W           | 10 kg      |
| 2220037/4/...² | URSA LED 96  | 96 W      | 105 W                       | 700 mA              | 4000 K                   | 18300 lm            | 16750 lm                 | 160 lm/W           | 10 kg      |
| 2220037/6/...² | URSA LED 96  | 96 W      | 105 W                       | 700 mA              | 5000 K                   | 18300 lm            | 16750 lm                 | 160 lm/W           | 10 kg      |
| 2220039/1/...² | URSA LED 120 | 120 W     | 129 W                       | 830 mA              | 2700 K                   | 18600 lm            | 17050 lm                 | 132 lm/W           | 10 kg      |
| 2220039/3/...² | URSA LED 120 | 120 W     | 129 W                       | 830 mA              | 3500 K                   | 19700 lm            | 18050 lm                 | 140 lm/W           | 10 kg      |
| 2220039/4/...² | URSA LED 120 | 120 W     | 129 W                       | 830 mA              | 4000 K                   | 20900 lm            | 19150 lm                 | 148 lm/W           | 10 kg      |
| 2220039/6/...² | URSA LED 120 | 120 W     | 129 W                       | 830 mA              | 5000 K                   | 20900 lm            | 19150 lm                 | 148 lm/W           | 10 kg      |
| 2220041/1/...² | URSA LED 144 | 144 W     | 154 W                       | 1000 mA             | 2700 K                   | 21400 lm            | 19600 lm                 | 127 lm/W           | 10 kg      |
| 2220041/3/...² | URSA LED 144 | 144 W     | 154 W                       | 1000 mA             | 3500 K                   | 22700 lm            | 20800 lm                 | 135 lm/W           | 10 kg      |
| 2220041/4/...² | URSA LED 144 | 144 W     | 154 W                       | 1000 mA             | 4000 K                   | 24200 lm            | 22150 lm                 | 144 lm/W           | 10 kg      |
| 2220041/6/...² | URSA LED 144 | 144 W     | 154 W                       | 1000 mA             | 5000 K                   | 24200 lm            | 22150 lm                 | 144 lm/W           | 10 kg      |

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

2) symbol of chosen optical system eg. 2220033/6/T2 is URSA 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 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

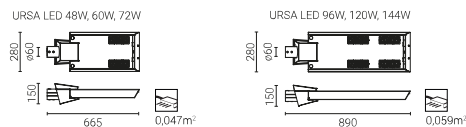
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

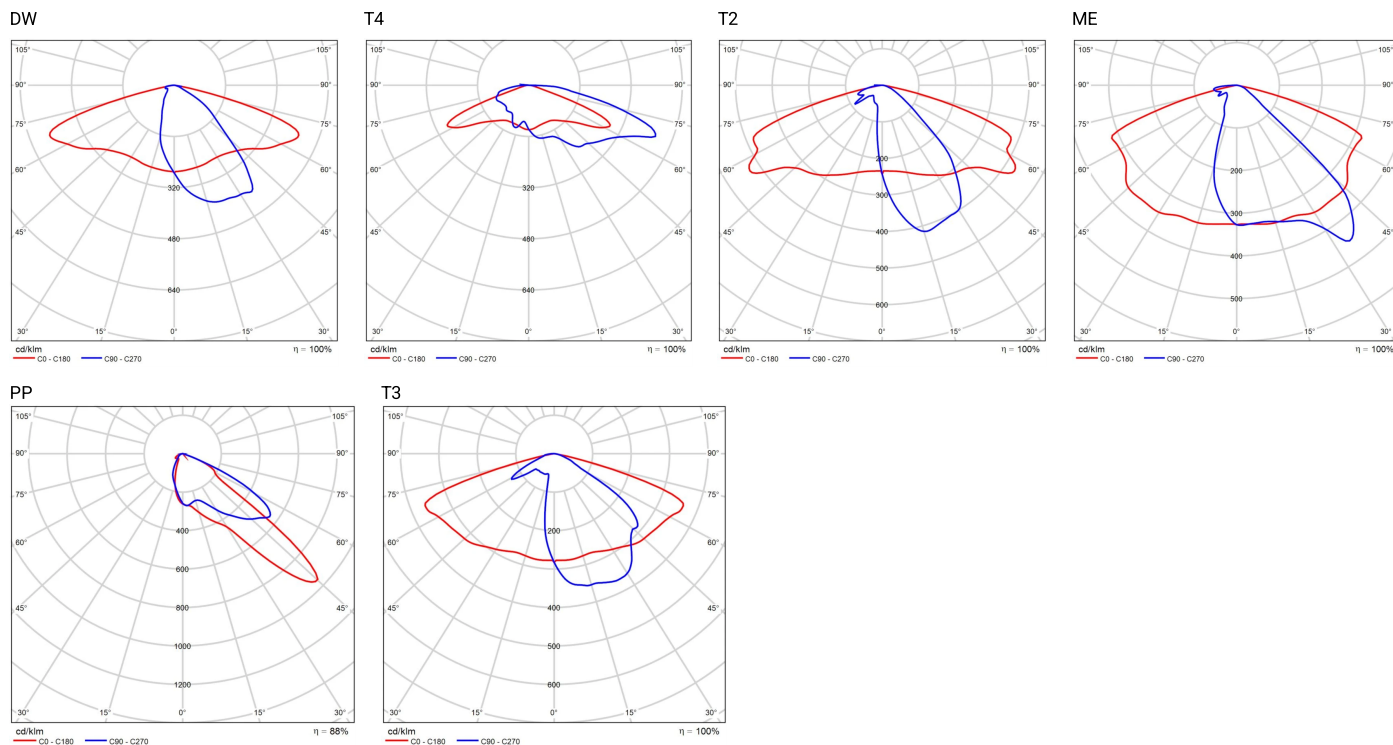
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

## 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,
- 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 |
|------------------------|-----|----|----|----|-----|-----|-----|-----|
| URSA LED 48, 60, 72W   | B   | 1  | 2  | 4  | 6   | 11  | 13  | 17  |
|                        | C   | 1  | 4  | 6  | 11  | 18  | 22  | 28  |
| URSA 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 |
|------------------------|----|----|----|-----|-----|-----|-----|
| URSA LED 48, 60, 72W   | 1  | 2  | 11 | 19  | 30  | 38  | 47  |
| URSA LED 96, 120, 144W | 1  | 1  | 6  | 9   | 15  | 19  | 24  |