



## TECHNICAL DATA

|                                    |                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Assembly</b>                    | on extension arms with $\varnothing$ 42 x 30 mm ending                                                                           |
| <b>Application</b>                 | residential roads (internal), surrounding office buildings, parks, pedestrians                                                   |
| <b>Colour</b>                      | inox / graphite                                                                                                                  |
| <b>Ingress protection</b>          | IP 66                                                                                                                            |
| <b>Optical system</b>              | PMMA optics                                                                                                                      |
| <b>Material</b>                    | anodised aluminium alloy                                                                                                         |
| <b>Unit volume</b>                 | 0,041 m <sup>3</sup>                                                                                                             |
| <b>Operating temperature range</b> | from -40°C to +55°C                                                                                                              |
| <b>Expected useful lifetime</b>    | L90B10 - 100 000 h                                                                                                               |
| <b>CRI</b>                         | >70                                                                                                                              |
| <b>Inrush current</b>              | 18 A / 280 $\mu$ s (DROP LED 24 - 36)<br>43 A / 260 $\mu$ s (DROP LED 48)                                                        |
| <b>Input voltage frequency</b>     | 50/60Hz                                                                                                                          |
| <b>Power factor</b>                | $\geq 0.95$                                                                                                                      |
| <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 VARIANTS

| 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> | Net weight |
|---------------------------|-------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|
| 214930/1/... <sup>2</sup> | DROP LED 24 | 24 W      | 28 W                        | 500 mA              | 2700 K                   | 4050 lm                         | 3850 lm                              | 138 lm/W                       | 4.9 kg     |
| 214930/3/... <sup>2</sup> | DROP LED 24 | 24 W      | 28 W                        | 500 mA              | 3500 K                   | 4300 lm                         | 4050 lm                              | 145 lm/W                       | 4.9 kg     |
| 214930/4/... <sup>2</sup> | DROP LED 24 | 24 W      | 28 W                        | 500 mA              | 4000 K                   | 4550 lm                         | 4300 lm                              | 154 lm/W                       | 4.9 kg     |
| 214930/6/... <sup>2</sup> | DROP LED 24 | 24 W      | 28 W                        | 500 mA              | 5000 K                   | 4550 lm                         | 4300 lm                              | 154 lm/W                       | 4.9 kg     |
| 214932/1/... <sup>2</sup> | DROP LED 36 | 36 W      | 41 W                        | 750 mA              | 2700 K                   | 5750 lm                         | 5450 lm                              | 133 lm/W                       | 4.9 kg     |
| 214932/3/... <sup>2</sup> | DROP LED 36 | 36 W      | 41 W                        | 750 mA              | 3500 K                   | 6100 lm                         | 5800 lm                              | 141 lm/W                       | 4.9 kg     |
| 214932/4/... <sup>2</sup> | DROP LED 36 | 36 W      | 41 W                        | 750 mA              | 4000 K                   | 6450 lm                         | 6100 lm                              | 149 lm/W                       | 4.9 kg     |
| 214932/6/... <sup>2</sup> | DROP LED 36 | 36 W      | 41 W                        | 750 mA              | 5000 K                   | 6450 lm                         | 6100 lm                              | 149 lm/W                       | 4.9 kg     |
| 214933/1/... <sup>2</sup> | DROP LED 48 | 48 W      | 55 W                        | 1000 mA             | 2700 K                   | 7250 lm                         | 6850 lm                              | 125 lm/W                       | 5.2 kg     |
| 214933/3/... <sup>2</sup> | DROP LED 48 | 48 W      | 55 W                        | 1000 mA             | 3500 K                   | 7650 lm                         | 7300 lm                              | 133 lm/W                       | 5.2 kg     |
| 214933/4/... <sup>2</sup> | DROP LED 48 | 48 W      | 55 W                        | 1000 mA             | 4000 K                   | 8150 lm                         | 7700 lm                              | 140 lm/W                       | 5.2 kg     |
| 214933/6/... <sup>2</sup> | DROP LED 48 | 48 W      | 55 W                        | 1000 mA             | 5000 K                   | 8150 lm                         | 7700 lm                              | 140 lm/W                       | 5.2 kg     |

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

2) symbol of chosen optical system eg. 214933/6/S is DROP LED 48 5000K with symetric 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

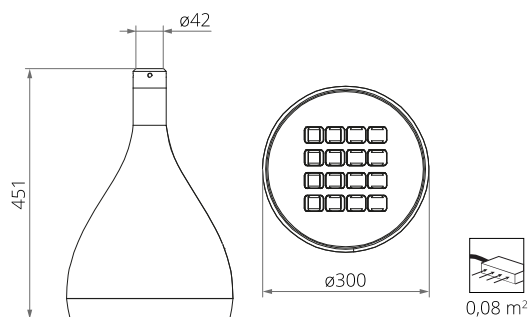
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## 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:

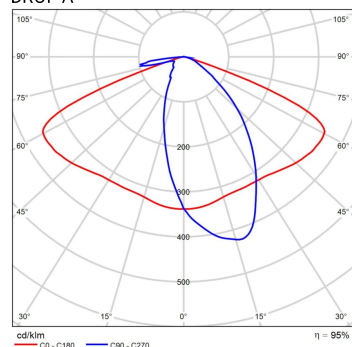
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

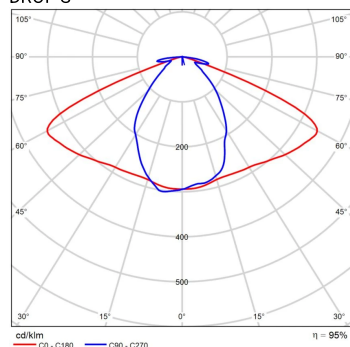


## PHOTOMETRIC CURVES

DROP A



DROP S



## 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 |
|-----------------|-----|----|----|----|-----|-----|-----|-----|
| DROP LED 48     | B   | 1  | 2  | 4  | 6   | 12  | 12  | 15  |
|                 | C   | 1  | 4  | 6  | 10  | 17  | 20  | 26  |
| DROP LED 24, 36 | B   | 3  | 6  | 10 | 16  | 26  | 32  | 40  |
|                 | C   | 3  | 10 | 16 | 27  | 44  | 54  | 67  |

Fuse – type gG and GL

| Luminaire       | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------|----|----|----|-----|-----|-----|-----|
| DROP LED 48     | 0  | 4  | 8  | 11  | 22  | 31  | 44  |
| DROP LED 24, 36 | 1  | 10 | 19 | 25  | 50  | 68  | 97  |