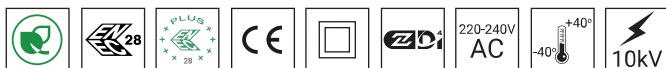




## TECHNICAL DATA

|                                    |                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>                 | parks, pedestrians, bicycle routes                                                                                               |
| <b>Assembly</b>                    | pole top mounted or on extension arms with ø 60 x 50 mm ending                                                                   |
| <b>Ingress protection</b>          | IP 65                                                                                                                            |
| <b>Material</b>                    | base – high-pressure die-casted aluminium alloy<br>cap – formed aluminium sheet<br>diffuser – frosted cylindrical ø200 mm (PMMA) |
| <b>Unit volume</b>                 | 0,06 m³                                                                                                                          |
| <b>Operating temperature range</b> | from -40°C to +40°C                                                                                                              |
| <b>Expected useful lifetime</b>    | L90B10 - 100 000 h                                                                                                               |
| <b>CRI</b>                         | >70                                                                                                                              |
| <b>Inrush current</b>              | 24,6 A / 159,5 µs                                                                                                                |
| <b>Input voltage frequency</b>     | 50/60Hz                                                                                                                          |
| <b>Power factor</b>                | ≥0.95                                                                                                                            |
| <b>Number of LED</b>               | 1                                                                                                                                |
| <b>Control system</b>              | 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 flux¹ | Luminaire luminous flux¹ | Luminous efficacy¹ | Net weight |
|----------------|--------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------|--------------------------|--------------------|------------|
| 2130550/1      | ELBA LED D4i black | 33 W      | 36 W                        | 940 mA              | 2700 K                   | 5300 lm             | 3650 lm                  | 101 lm/W           | 5 kg       |
| 21310550/1/C45 | ELBA LED D4i inox  | 33 W      | 36 W                        | 940 mA              | 2700 K                   | 5300 lm             | 3450 lm                  | 96 lm/W            | 5 kg       |
| 2130550/3      | ELBA LED D4i black | 33 W      | 36 W                        | 940 mA              | 3500 K                   | 5750 lm             | 3950 lm                  | 110 lm/W           | 5 kg       |
| 21310550/3/C45 | ELBA LED D4i inox  | 33 W      | 36 W                        | 940 mA              | 3500 K                   | 5750 lm             | 3750 lm                  | 104 lm/W           | 5 kg       |
| 2130550/4      | ELBA LED D4i black | 33 W      | 36 W                        | 940 mA              | 4000 K                   | 5850 lm             | 4000 lm                  | 111 lm/W           | 5 kg       |
| 21310550/4/C45 | ELBA LED D4i inox  | 33 W      | 36 W                        | 940 mA              | 4000 K                   | 5850 lm             | 3800 lm                  | 106 lm/W           | 5 kg       |

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

## 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=25°C)

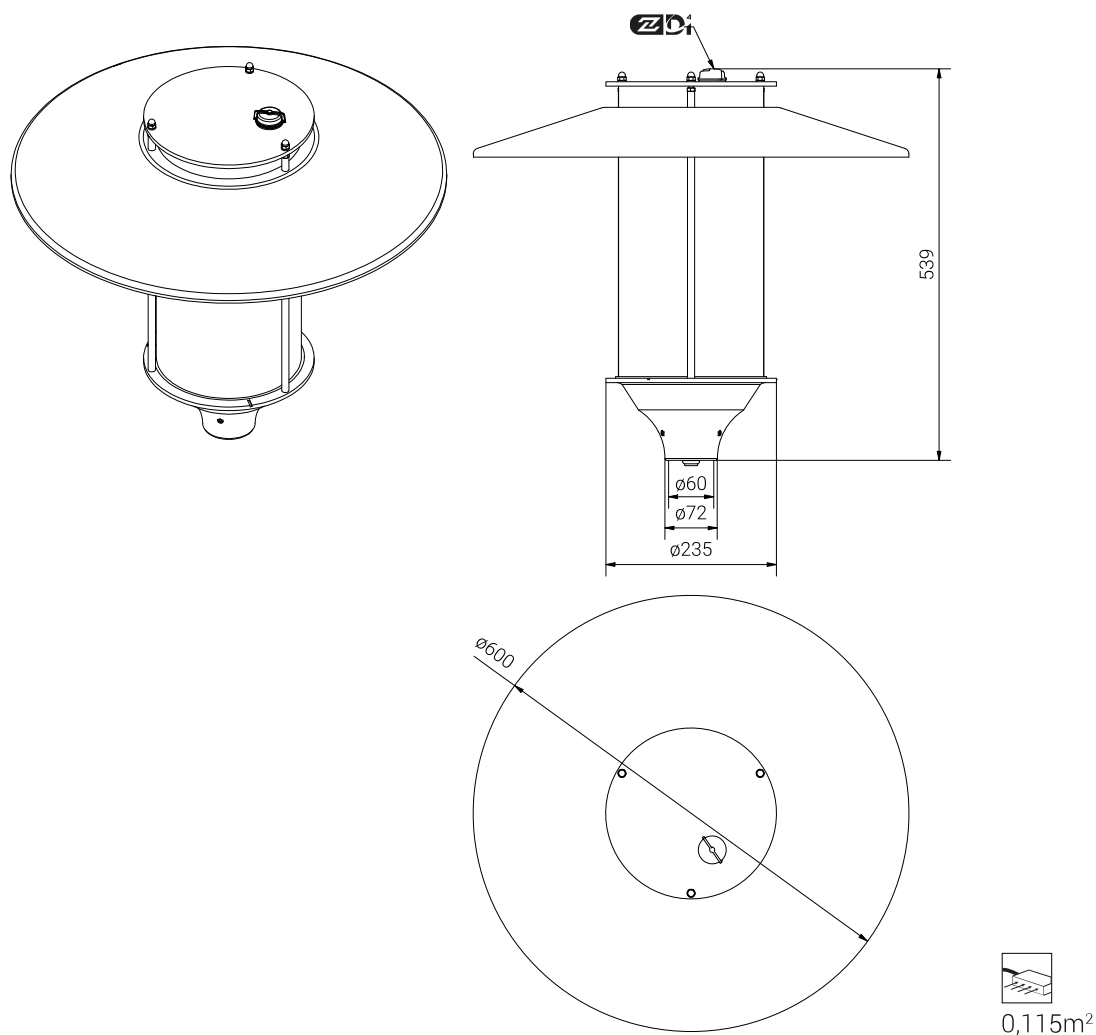
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

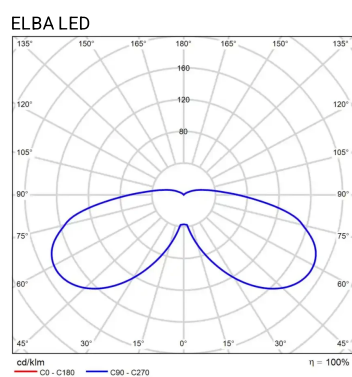
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

## 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,
- 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    | Type | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|--------------|------|----|----|----|-----|-----|-----|-----|
| ELBA LED D4i | B    | 4  | 7  | 12 | 18  | 30  | 37  | 46  |
|              | C    | 4  | 12 | 18 | 31  | 51  | 62  | 78  |

Fuse – type gG and GL

| Luminaire    | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|--------------|----|----|----|-----|-----|-----|-----|
| ELBA LED D4i | 1  | 10 | 20 | 26  | 52  | 71  | 101 |

## CHROMATICITY

| Chromaticity | x      | y      |
|--------------|--------|--------|
| 2700K        | 0.4338 | 0.4101 |
| 3500K        | 0.4073 | 0.3917 |
| 4000K        | 0.3818 | 0.3797 |

## PHOTOMETRIC CODE

|       |         |
|-------|---------|
| 2700K | 827/559 |
| 3500K | 835/559 |
| 4000K | 840/559 |