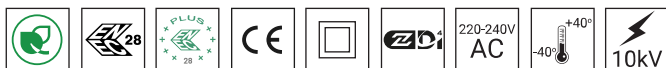




## TECHNICAL DATA

|                                    |                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>                 | parks, pedestrians                                                                                                                                                             |
| <b>Assembly</b>                    | on columns, extension arms, aluminium and steel wall brackets, arm systems with spigot ending ø 60 x 60 mm deep and on plastic poles type S and SP with spigot ending type „B” |
| <b>Colour</b>                      | black                                                                                                                                                                          |
| <b>Ingress protection</b>          | IP 66 for the optical part and IP 54 for the driver                                                                                                                            |
| <b>Optical system</b>              | PMMA optics, interchangeable LED module                                                                                                                                        |
| <b>Material</b>                    | body – UV resistant polypropylene with glass fiber, diffuser – frosted PMMA or transparent PMMA                                                                                |
| <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>Input voltage frequency</b>     | 50/60Hz                                                                                                                                                                        |
| <b>Power factor</b>                | ≥0.95                                                                                                                                                                          |
| <b>Number of LED</b>               | 16                                                                                                                                                                             |
| <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        | Diffuser    | 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> | Unit volume | Inrush current | Net weight |
|--------------|---------------|-------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|-------------|----------------|------------|
| 21100550/1   | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 2700 K                   | 5850 lm                         | 4600 lm                              | 110 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/3   | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 3500 K                   | 6200 lm                         | 4850 lm                              | 115 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/4   | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 4000 K                   | 6700 lm                         | 5250 lm                              | 125 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/6   | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 5000 K                   | 6700 lm                         | 5250 lm                              | 125 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21120550/1   | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 2700 K                   | 5850 lm                         | 4800 lm                              | 114 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/3   | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 3500 K                   | 6200 lm                         | 5050 lm                              | 120 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/4   | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 4000 K                   | 6700 lm                         | 5450 lm                              | 130 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/6   | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 5000 K                   | 6700 lm                         | 5450 lm                              | 130 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21100550/1/A | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 2700 K                   | 5850 lm                         | 4400 lm                              | 105 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/3/A | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 3500 K                   | 6200 lm                         | 4650 lm                              | 111 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/4/A | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 4000 K                   | 6700 lm                         | 5050 lm                              | 120 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21100550/6/A | OS-11 LED D4i | frosted     | 38 W      | 42 W                        | 800 mA              | 5000 K                   | 6700 lm                         | 5050 lm                              | 120 lm/W                       | 0.1 m³      | -              | 4.6 kg     |
| 21120550/1/A | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 2700 K                   | 5850 lm                         | 4600 lm                              | 110 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/3/A | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 3500 K                   | 6200 lm                         | 4850 lm                              | 115 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/4/A | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 4000 K                   | 6700 lm                         | 5250 lm                              | 125 lm/W                       | 0.1 m³      | -              | 4.8 kg     |
| 21120550/6/A | OS-11 LED D4i | transparent | 38 W      | 42 W                        | 800 mA              | 5000 K                   | 6700 lm                         | 5250 lm                              | 125 lm/W                       | 0.1 m³      | -              | 4.8 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)

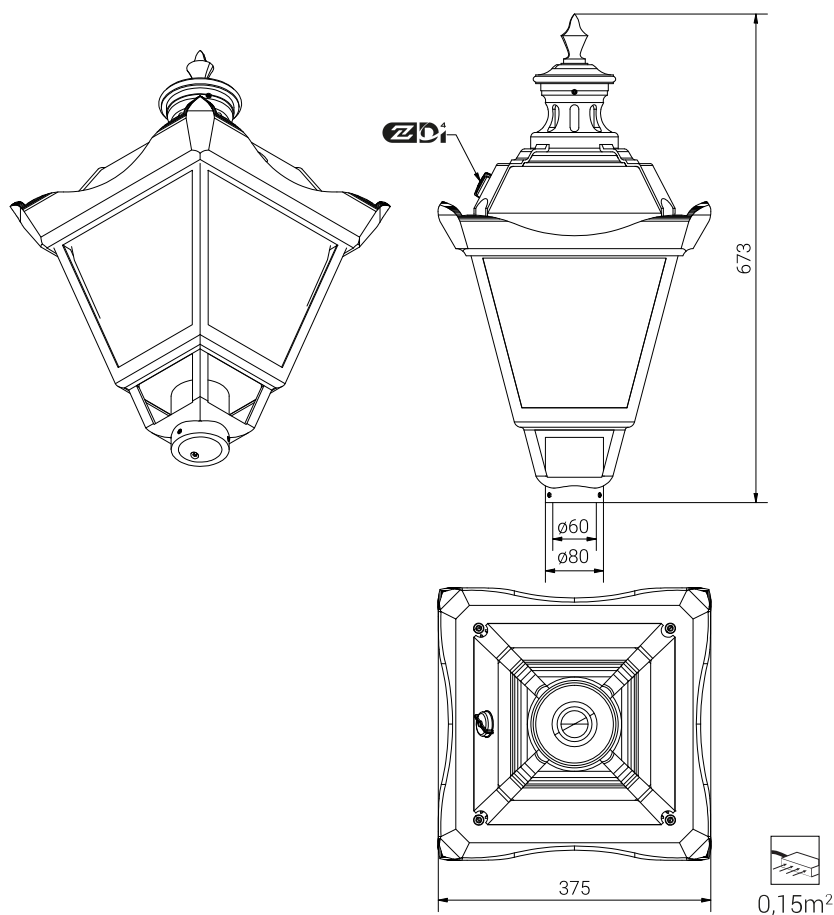
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

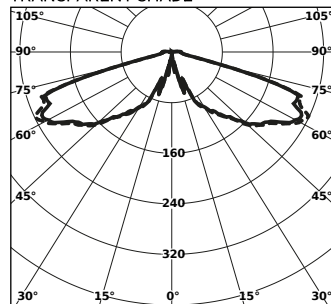
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING



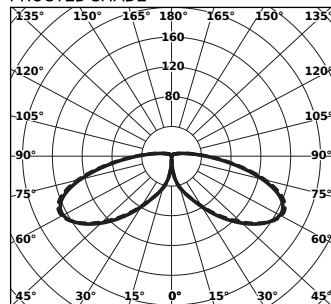
## PHOTOMETRIC CURVES

TRANSPARENT SHADE



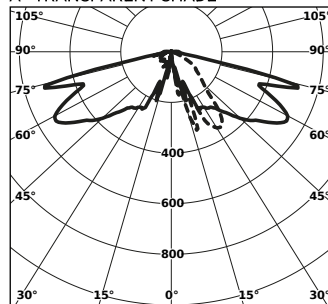
cd/klm  
— C0 - C180 --- C90 - C270

FROSTED SHADE



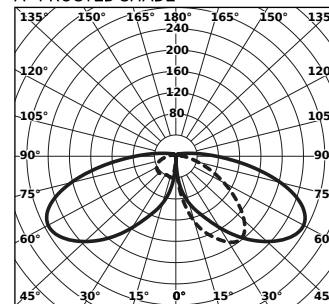
cd/klm  
— C0 - C180 --- C90 - C270

A - TRANSPARENT SHADE



cd/klm  
— C0 - C180 --- C90 - C270

A - FROSTED SHADE



cd/klm  
— C0 - C180 --- C90 - C270

## 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,

# OS-11 LED D4i



## ACCETABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

| Luminaire     | Typ | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|---------------|-----|----|----|----|-----|-----|-----|-----|
| OS-11 LED D4i | B   | 2  | 5  | 8  | 13  | 21  | 26  | 32  |
|               | C   | 2  | 8  | 13 | 21  | 35  | 43  | 54  |

Fuse – type gG and GL

| Luminaire     | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|---------------|----|----|----|-----|-----|-----|-----|
| OS 11 LED D4i | 1  | 8  | 16 | 22  | 43  | 59  | 84  |

## 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 |