

TECHNICAL DATA

|                          |                                                                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application              | residential roads (internal), surrounding office buildings, parks, pedestrians, parkings                                                                                                                                                                              |
| Colour                   | grey / inox                                                                                                                                                                                                                                                           |
| Ingress protection       | IP 66 for the optical part and the driver                                                                                                                                                                                                                             |
| Optical system           | PMMA optics, interchangeable LED module                                                                                                                                                                                                                               |
| Material                 | anodised aluminium alloy                                                                                                                                                                                                                                              |
| Unit volume              | -                                                                                                                                                                                                                                                                     |
| Expected useful lifetime | L90B10 - 100 000 h                                                                                                                                                                                                                                                    |
| CRI                      | >80                                                                                                                                                                                                                                                                   |
| Inrush current           | 18 A / 280 µs (STICK LED 24)<br>46 A / 250 µs (STICK LED 48; STICK II LED: 24, 90 24, 180 24; STICK III LED 90-90 24)<br>53 A / 300 µs (STICK II LED: 48, 90 48, 180 48; STICK III LED 90-90 48; STICK IV LED: 24, 90 24)<br>106 A / 300 µs (STICK IV LED: 48, 90 48) |
| Input voltage frequency  | 50/60Hz                                                                                                                                                                                                                                                               |
| Power factor             | ≥0.95                                                                                                                                                                                                                                                                 |
| Number of LED            | -<br>12 - ( STICK LED 24 W) 24 - (STICK LED 48 W),<br>2x12 - (STICK II LED 24 W), 2x24 - (STICK II LED 48 W),<br>3x12 - (24 W), 3x24 - (48 W),<br>4x12 - (24 W), 4x24 - (48 W),                                                                                       |
| Control system           | LED lighting set has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).                                                                                                                                |
| Carbon footprint         | -                                                                                                                                                                                                                                                                     |

| Code          | Symbol              | Height of the column [H] | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux¹ | Luminaire luminous flux¹ | Luminous efficacy¹ | Unit volume | Concrete footing / reinforcement basket type | Fasteners | Inrush current | Net weight |
|---------------|---------------------|--------------------------|-----------|-----------------------------|---------------------|--------------------------|---------------------|--------------------------|--------------------|-------------|----------------------------------------------|-----------|----------------|------------|
| 217330/3/...² | STICK II LED 180 24 | 5 m                      | 24 W x 2  | 28 W x 2                    | 700 mA              | 3500 K                   | 4350 lm x 2         | 3500 lm x 2              | 116 lm/W           | 1.1 m³      | B-60 / Z-60                                  | 4008      | 46A / 250µs    | 67 kg      |

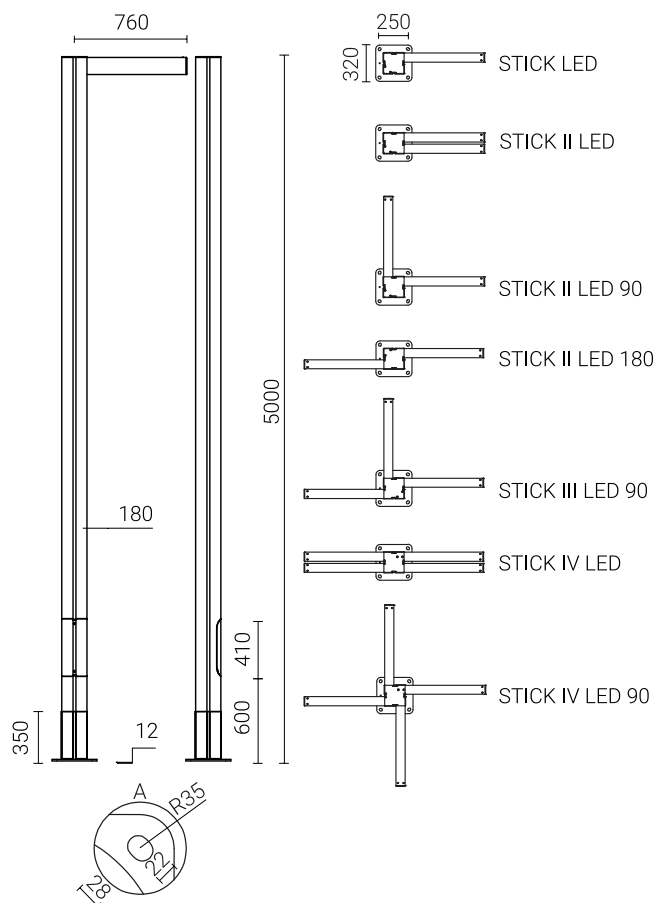
1) tolerance +/- 5% due to LEDs accuracy  
2) symbol of chosen optical system eg. 217030/3/T2 is a braket STICK LED 24 3500K with T2 optical system

DIRECTIVES AND STANDARDS

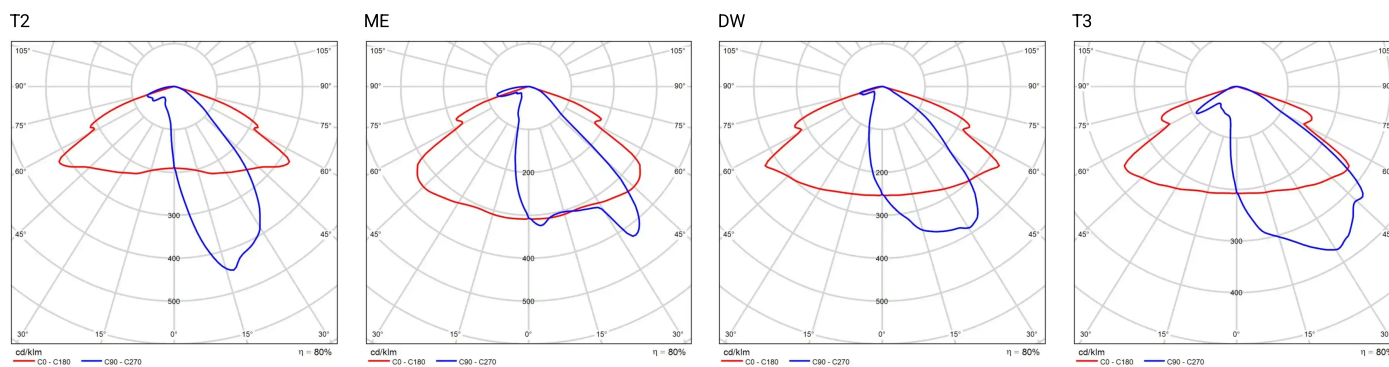
**DIRECTIVES:** 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)  
**STANDARDS:** PN-EN IEC 60598-1: 2021-7, 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

## 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

| Lighting set                                     | Type | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|--------------------------------------------------|------|----|----|----|-----|-----|-----|-----|
| STICK LED 24                                     | B    | 3  | 6  | 10 | 16  | 26  | 32  | 40  |
|                                                  | C    | 3  | 10 | 16 | 27  | 44  | 54  | 67  |
| STICK II LED 24 STICK LED 48 STICK III LED 24    | B    | 1  | 2  | 4  | 6   | 11  | 13  | 17  |
|                                                  | C    | 1  | 4  | 6  | 11  | 18  | 22  | 28  |
| STICK II LED 48 STICK III LED 48 STICK IV LED 24 | B    | 1  | 2  | 3  | 5   | 8   | 10  | 12  |
|                                                  | C    | 1  | 3  | 5  | 8   | 13  | 16  | 20  |
| STICK IV LED 48                                  | B    | 0  | 1  | 1  | 2   | 4   | 5   | 6   |
|                                                  | C    | 0  | 1  | 2  | 4   | 6   | 8   | 10  |

Fuse – type gG and GL

| Lighting set                                  | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------------------------------|----|----|----|-----|-----|-----|-----|
| STICK LED 24                                  | 1  | 10 | 19 | 25  | 50  | 68  | 97  |
| STICK II LED 24 STICK LED 48 STICK III LED 24 | 0  | 4  | 8  | 11  | 21  | 29  | 42  |
| STICK II LED 48 STICK IV LED 24               | 0  | 3  | 6  | 8   | 17  | 23  | 33  |
| STICK III LED 48                              | 0  | 3  | 6  | 8   | 17  | 22  | 27  |
| STICK IV LED 48                               | 0  | 1  | 3  | 4   | 8   | 11  | 16  |

## ACCEPTABLE HEIGHT

| STICK I LED    | Acceptable height of the LED lighting set |                                                |                        |                                           |
|----------------|-------------------------------------------|------------------------------------------------|------------------------|-------------------------------------------|
| Field category | I zone Vref. = 22 m/s                     | I & III zone, up to 450m a.s.l. Vref. = 24 m/s | II zone Vref. = 26 m/s | III zone up to 755m a.s.l. Vref. = 28 m/s |
| I              | 6                                         | 5,5                                            | 5                      | 4,5                                       |
| II             | 6                                         | 5,5                                            | 5,5                    | 5                                         |
| III            | 6                                         | 6                                              | 5,5                    | 5,5                                       |
| IV             | 6                                         | 6                                              | 6                      | 6                                         |

| STICK II LED   | Acceptable height of the LED lighting set |                                                |                        |                                           |
|----------------|-------------------------------------------|------------------------------------------------|------------------------|-------------------------------------------|
| Field category | I zone Vref. = 22 m/s                     | I & III zone, up to 450m a.s.l. Vref. = 24 m/s | II zone Vref. = 26 m/s | III zone up to 755m a.s.l. Vref. = 28 m/s |
| I              | 5,5                                       | 5                                              | 4,5                    | 4                                         |
| II             | 6                                         | 5,5                                            | 5                      | 4,5                                       |
| III            | 6                                         | 6                                              | 5,5                    | 5                                         |
| IV             | 6                                         | 6                                              | 6                      | 5,5                                       |

| STICK III/IV LED | Acceptable height of the LED lighting set |                                                |                        |                                           |
|------------------|-------------------------------------------|------------------------------------------------|------------------------|-------------------------------------------|
| Field category   | I zone Vref. = 22 m/s                     | I & III zone, up to 450m a.s.l. Vref. = 24 m/s | II zone Vref. = 26 m/s | III zone up to 755m a.s.l. Vref. = 28 m/s |
| I                | 5,5                                       | 5                                              | 4,5                    | 4                                         |
| II               | 5,5                                       | 5                                              | 4,5                    | 4,5                                       |
| III              | 6                                         | 5,5                                            | 5                      | 5                                         |
| IV               | 6                                         | 6                                              | 5,5                    | 5,5                                       |