

# KREOS SR/100 ZHAGA

Part number 3118645



## Description

LED street luminaire, comprising:

- Die-cast aluminium housing and cover, polyester powder coat finish ISO 9227/12944 - ISO 9223 (C5)
- Coated die-cast aluminium pole-top adaptor for pole  $\varnothing$  60 / 76 mm
- High-performance polished, oxidised, PVD 99.99% silver treated, pure aluminium reflectors. This treatment creates an iridescence-free surface with a greater than 97% reflectance
- Street optic options: SR/075 usually for narrow roads ( $0.5 \geq L/H \geq 0.75$ ), SR/100 for two-lane roads ( $L/H = 1$ ), SR/125 for wide streets and ( $L/H = 1.25$ ), SR/150 for wide roads/parking lots ( $L/H = 1.5$ ) schemes. L/H ratio (L-road width/H-pole height)
- UNI 10819 light pollution standards compliant (0% ULOR rating)
- Anti-ageing custom moulded silicone sealing gasket(s) with resilient elastic return capacity
- Extra clear, toughened, flat glass diffuser
- The integral switch splitter automatically disconnects the driver from mains when opened
- Die-cast aluminium retaining clip with stainless steel spring allows quick and tool-free access to the luminaire for extraordinary maintenance
- Removable galvanized sheet metal gear tray
- Built-in driver
- Integral surge protection device (SPD) against mains overvoltages up to 10 kV (CM/DM)
- Complete with 1 m H07RN-F 2x1.5 mm<sup>2</sup> or H07RN-F 4x1.5 mm<sup>2</sup> (dimmable options) cable, for mains connection without opening the luminaire
- Stainless steel locking hardware
- Complete with NEMA socket connected to DALI driver and waterproof short-circuit cap for On/Off operation mode and SMART-compatible mounting solutions (NEMA options)
- Complete with ZHAGA socket positioned on the upper part of the luminaire (UP position) and D4i driver. Ready for "radio frequency node" smart, twilight and other compatible solutions (ZHAGA options). Consult factory for more options
- Upon request, luminaires can be provided with ZHAGA socket positioned in the lower part of the luminaire (DOWN position) or mixed (UP position + DOWN position) to be able to connect presence and/or motion detectors or combined solutions
- Other colour temperatures (CCT) and colour rendering index (CRI) options available. Consult factory
- DALI-2 (IEC 62386) dimmable ballast available. Consult factory
- CLO (Constant Light Output) options available. Consult factory

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## Product data

|             |          |             |          |
|-------------|----------|-------------|----------|
| ETIM Group: | EG000027 | ETIM Class: | EC000062 |
|-------------|----------|-------------|----------|

## General information

|                                |                                    |                              |       |
|--------------------------------|------------------------------------|------------------------------|-------|
| Lampholder:                    | LED                                | Light source:                | LED   |
| Lightsource lumen output [lm]: | 2562                               | Luminaire lumen output [lm]: | 2090  |
| Luminaire wattage [W]:         | 16 W                               | Luminous efficacy [lm/W]:    | 131   |
| CRI:                           | 70                                 | Colour temperature [K]:      | 3000  |
| Colour / Finishing:            | AN-g6 / Anthracite gray / Textured | IP degree of protection:     | IP66  |
| IK-J-xxIP:                     | IK08 gJ xx5                        | Protection class:            | II    |
| Optic:                         | SR/100 - Street                    | Net weight [kg]:             | 6.667 |
| Overall length [mm]:           | 300                                | Overall width [mm]:          | 536   |

## Mechanical features

|   |             |   |           |
|---|-------------|---|-----------|
| Shape:                                  | Rectangular | Housing material:                       | Aluminium |
| Diffuser material:                      | Glass       | Glow wire test [°C]:                    | 960 °C    |
| Frontal exposed area [m <sup>2</sup> ]: | 0.02        | Lateral exposed area [m <sup>2</sup> ]: | 0.05      |
| Top exposed area [m <sup>2</sup> ]:     | 0.15        |   |           |

## Electrical features

|                                       |         |                                 |          |
|---------------------------------------|---------|---------------------------------|----------|
| Voltage type:                         | AC/DC   | Input voltage [V AC]:           | 220/240  |
| Input frequency [Hz]:                 | 0/50/60 | Power factor / COS Φ:           | >0.9     |
| Input voltage [V DC]:                 | 176/280 | Surge protection   Common [kV]: | 10.0     |
| Surge protection   Differential [kV]: | 10.0    | Inrush current [A/μs]:          | 15 / 316 |
| C10 1.5 mm <sup>2</sup> :             | 26      | C16 2.5 mm <sup>2</sup> :       | 41       |
| B10 1.5 mm <sup>2</sup> :             | 16      | B16 2.5 mm <sup>2</sup> :       | 25       |

## Installation

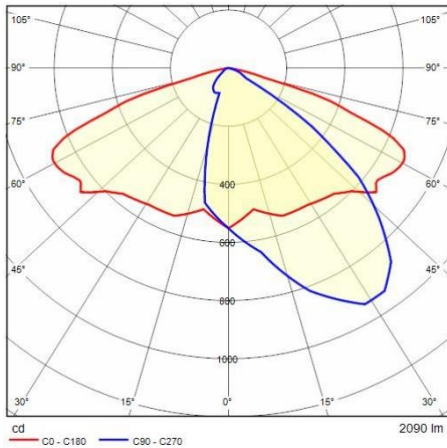
|                                |         |                                |                 |
|--------------------------------|---------|--------------------------------|-----------------|
| Application area:              | Outdoor | Mounting type:                 | Street lighting |
| Min. ambient temperature [°C]: | -40     | Max. ambient temperature [°C]: | 50              |

## Light features

|                                   |        |                                |                |
|-----------------------------------|--------|--------------------------------|----------------|
| MacAdam:                          | 5      | Lumen maintenance:             | L90B10@100000h |
| Distribution of light emission:   | Direct | Luminous Intensity Class:      | G'3            |
| Zero light pollution (ULR = 0%):  |        | IPEA* (road lighting):         | A6+            |
| IPEA* (large areas, roundabouts): | A7+    | IPEA* (cycle-pedestrian):      | A6+            |
| IPEA* (green areas):              | A6+    | IPEA* (historic city centers): | A10+           |

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## Photometric data



## Optional accessories

### KREOS



**3106386**

Reducer pole Ø 42÷46 mm

■ AN-g6 / Anthracite gray



**14077796**

Hot-dipped galvanized wall angled steel bracket, cataphoresis and polyester powder

■ AN-g6 / Anthracite gray