Luminaire

Materials:
Powder-coated finish aluminium injection luminaire. Injected ABS internal reflector. Tempered optical glass seal. The attachment fixture (drawing B) allows a lighting catenary installation with a simple fastening system. Thanks to a 360° rotation on its own axis, facilitates an on-side lighting distribution fully orientable. Metal wire allowed: Ø 6 mm. Stainless steel safety screws.

Finishes:

- Light grey
- Medium grey
- Dark grey

*The colors shown are merely indicative and may differ from reality. (Other colours available to order)

Sizes (cm):
Ø 23 x 22

Weight (kg):
3.7

Surface exposed to wind (m²):
0.028 (lateral)

Installation:
Suitable for pole attachment using a fastening fixture not included (see drawing A). Suitable for catenary attachment using a fastening fixture not included (see drawing B). *Catenary wire not included.

Applicable standards: UNE-EN 60529, UNE-EN 60598, UNE-EN 55015, UNE-EN 61000, UNE-EN 50102, UNE-EN 62031 (tests performed by accredited laboratory ENAC, CE), UL 1598, UL 8750, (file E-505192).

Protections: IP66 (protection from dust ingress and high-pressure water jets), suitable for wet locations, IK08 (protection against external mechanical impacts)

Electrical rating: Class I (CE)

Light source: High-efficiency optical unit with 8, 12 LEDs or COB.

Nominal lamp power (W):
- 8 LEDs: 8 / 11
- 12 LEDs: 12 / 18
- COB: 14 / 20

System power (W):
- 8 LEDs: 11 / 15
- 12 LEDs: 15 / 21
- COB: 19 / 27

Operating current (mA): 350, 500

Colour temperature (K°): 3000 CRI min80, 4000 CRI typ70
**Power supply**: constant current driver.

**Regulation**: 1-10V / DALI / Header flux regulation / Programmable automatic regulation. The LED luminaire may be regulated using a number of differing interfaces. These controls allow specific, individual control of light, reducing energy consumption in a sustainable manner. Constant light output (CLO) Assures a constant lumen output from the luminaire throughout its lifetime.

**Power factor (cos ϕ)**:

<table>
<thead>
<tr>
<th>Nº LEDs</th>
<th>Current (mA)</th>
<th>P(W) 100%, CLO 80%</th>
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<tr>
<td>8</td>
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**Operating voltage**: 220-240V 50-60Hz (CE)

**Wire**: 0,6/1 kV 3x2,5mm² 0,6/1 kV 5x1,5mm² (prog.)

**Temperature operating range Ta (°C)**: between -25 and 30 (450mA)

**Lifetime**: TM21 L70 (10k) > 60.000 h

Thanks to an optimised thermal design, the luminous flux is maintained up to 70% after 60.000 h.

**Light distributions**: Symmetrical: Wide Flood (WF 76°), Flood (F 43°), Medium (M 30°), Spot (S 15°), Oval (OV 60°x40°), Lightblade (LB 100°x20°), Type II+II (TII+II).

Asymmetrical: Type II, Type III o Type IV (according to IESNA classification).

**Upper Light Output Ratio (FHS%)**: 0.60 – 0.89

**Configurations**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Nº LEDs</th>
<th>Color* (K)</th>
<th>CCT (K)</th>
<th>Current (mA)</th>
<th>System power (W)</th>
<th>Efficacy (lm/W)</th>
<th>Luminaire luminous flux (lm)</th>
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*Opal option -75% luminous flux

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Last update: 14/3/2020
Asymmetric

- TII + II Distribution
- LOR 100%
- ULOR 0% ± 3%

Max. intensity 509.57 cd/klm

*Recomendations: for calculation in ground type II (according to UNE-40) and wind speed of 29 m/s, with soil formed by loose or wet dirt or sand of medium compactness (E₀ = 4800 KN/m²), with HM-20 concrete. Non-binding information. We advise to carry out checks for each situation.