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**Product configuration: EP04**

EP04: Ø180mm optical assembly - Warm White LED - 220÷240Vac DALI - Super Comfort 180° optic - Full Cut-Off

**Product code**

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**Technical description**

Outdoor, ground or pavement-mounted direct light luminaire, designed to use LED lamps, with a 180° asymmetric optic. The complete product consists of an optical assembly and a cylindrical post to be ordered separately. The optical assembly is made up of various parts, including a top cover made of painted aluminium; a PMMA flux enhancer; a transparent polycarbonate emission lens with an extruded internal bracket and an LED circuit fixed in radial mode; a black-painted, die-cast aluminium cone; a die-cast aluminium lower box for housing the control gear; and silicone seals to guarantee a watertight seal between the top cover, the lens and the cone. The external aluminium parts have been subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. At the bottom, the optical assembly is completed by a nickel-plated brass cable clamp and an H07RN-F 4x1mm rubber outlet cable L=1700 mm. The electrical connection requires IP or BOX IP connectors that need to be ordered separately. All external screws used are made of AISI 303 (A1) stainless steel.

**Installation**

The optical assembly is installed on the lower cylindrical post using a bayonet fitting and secured with two special Torx type screws.

**Colour**

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

**Weight (Kg)**

0.21

**Mounting**

ground anchored

**Wiring**

Electronic control gear unit DALI Vin: 170÷264Vac 164÷264Vdc, 50/60Hz. To adjust the light flow, the control gear can be programmed using a special programming interface (see catalogue) and the output cable from the optical assembly. The control gear is supplied in ON-Off mode and can be transformed into Midnight mode using the interface mentioned above. The DALI driver is compatible with Telemangement systems. An active control system modifies the current intensity to preserve the lifetime of the LEDs under any external ambient temperature conditions.

**Notes**

Upward emission=0

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	222.75	Colour temperature [K]:	3000
W system:	12.3	MacAdam Step:	3
lm source:	1650	Life Time LED 1:	73,000h - L80 - B10 (Ta 25C)
W source:	9.7	Life Time LED 2:	64,000h - L80 - B10 (Ta 40C)
Luminous efficiency (lm/W, real value):	18.11	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0.0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	14	Number of optical assemblies:	1
Beam angle [°]:	116° / 93°	Intervallo temperatura ambiente:	from -30°C to 50°C.
CRI:	80	Control:	DALI-2

