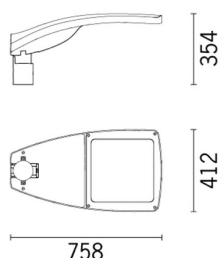


Last information update: April 2024

Product configuration: ED90

ED90: Pole-mounted system – ST1.2 optic - Neutral White - Dali - ø46-60-76mm

**Product code**

ED90: Pole-mounted system – ST1.2 optic - Neutral White - Dali - ø46-60-76mm

Technical description

Outdoor luminaire with direct light street optic for a high level of visual comfort (G4), designed to use LED lamps. The optical assembly and the pole attachment system are made of EN1706AC 46100LF aluminium alloy and 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 painting stage consists of a primer and a liquid acrylic paint, cured at 150 °C, with a high level of weather resistance. Option of also adjusting, with a graduated scale, the inclination in relation to the road surface of +15°/-10° (in 5° steps) for a pole-top installation and +5°/20° (in 5° steps) for a lateral installation. 5 mm thick tempered sodium-calcium closure glass. The glass secured to the frame closes the led optical assembly which is secured to the components assembly with a hinge and 2 screws. The high IP rating is guaranteed by the silicone gasket placed between the two elements. Complete with circuit featuring monochrome LEDs and silver aluminium reflectors. LED assembly can be replaced directly on site. Possibility of replacing the LEDs in groups of 12 in the laboratory. DALI electronic control gear. Midnight (100%-70%) or Bi-energy without external programming mode operation. Customised Midnight programming, fixed dimming and compatibility with flow regulators via a special programming interface. Control gear connected with quick-coupling connectors. Driver with automatic internal temperature control system. Tool-free removable control gear plate unit. The optical assembly is fixed to the wall-mounted or pole-top attachment with two clamping screws and two safety grub screws facilitate assembly. The light flow emitted in the upper hemisphere of the system in the horizontal position is null (in conformity with the strictest standards for the prevention of light pollution). All external screws are made of stainless steel.

Installation

The floodlight can be installed with pole-top or lateral mounting using a die-cast aluminium pole-top for diameters of 46/60/76 mm. Diameters from 60 to 76 mm without using the standard adaptor, and from 46 to 60 mm with the adaptor. Secured to the pole by two bolts and two safety locking nuts.

Colour

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

Weight (Kg)

14.3

Mounting

wall arm|pole-top

Wiring

The pole-top attachment guarantees the completely safe passage of power cables, avoiding piercing. 6-pole terminal board for ø 7-14mm cables. Overvoltage protection: 10KV Common Mode and 6KV Differential Mode

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	20540	Life Time LED 2:	99,000h - L90 - B10 (Ta 40°C)
W system:	162.4	Life Time LED 3:	100,000h - L80 - B10 (Ta 40°C)
Im source:	-	Voltage [Vin]:	230
W source:	-	Lamp code:	LED
Luminous efficiency (lm/W, real value):	126.5	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	100	Intervalllo temperatura ambiente:	from -40°C to 50°C.
CRI (minimum):	70	Power factor:	See installation instructions
Colour temperature [K]:	4000	Overvoltage protection:	10kV Common mode & 6kV Differential mode
MacAdam Step:	3	Control:	DALI-2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		

<p>Imax=11468 cd</p>	<p>C30-210 $\gamma=62^\circ$</p>		<p>CIE</p>
			<p>LA^{0.5}=2010</p>
			<p>SPREAD=average</p>
			<p>THROW=intermediate</p>
			<p>SLI=2.7</p>
			<p>DIN</p>
			<p>KB2</p>
			<p>CEN</p>
			<p>G*4</p>
			<p>D3</p>