

## Pencil rectangular

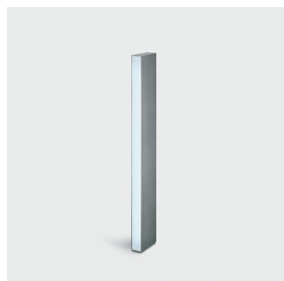
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### Product configuration: BN94

BN94: Rectangular bollard H=1180mm, Warm White Leds, integrated electronic control gear, double emission, diffusing optic.



### Product code

BN94: Rectangular bollard H=1180mm, Warm White Leds, integrated electronic control gear, double emission, diffusing optic.

**Attention! Code no longer in production**

### Technical description

Outdoor, direct light, pavement-mounted luminaire, designed to use Warm White LED lamps with a double emission, diffusing optic. The product consists of a body, an upper cover, a fixing base, a white screen and a watertight double reglette containing the control gear and a led circuit. The rectangular body is made of extruded aluminium with an upper cover and includes a die-cast aluminium lower base. The painting process includes 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. The inside of the body houses four stainless steel rods fixed to the base that give the product a high level of impact resistance. The product is anchored to the ground by the fixing base made of corrosion-resistant low copper content die-cast aluminium alloy. The diffuser screen is made of opal white anti-UV polycarbonate. The body contains two watertight, satin-finish methacrylate, reglette luminaires, with plastic caps and captive stainless steel screws, a PG9 cable gland and a single output cable. The Warm White Led circuit and the electronic control gear are positioned inside the reglette luminaires. The upper cover is fixed to the body with stainless steel bolts. All accessible parts have a top temperature of 50°C. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and all special requirements.

### Installation

The device can be applied directly to the pavement using the lower fixing base and screw anchors (Fisher type or similar) or using a fixing plate with Dakromet coated brackets, to further protect against corrosion (to be ordered separately). When installing the device a drainage pipe and a gravel base for drainage should be installed under the pavement and/or concrete to guarantee the required level of protection: for more information see the instruction sheet.

### Colour

Grey (15)

### Weight (Kg)

12.7

### Mounting

ground surface|ground anchored

### Wiring

The 20-240V ac control gear is housed inside the watertight reglette luminaire. Complete with rubber output cable H05RN-F 2x1mm<sup>2</sup>. An IP66 wiring box fitted with a double PG for pass-through wiring can be ordered separately.

### Notes

Product complete with LED lamp.

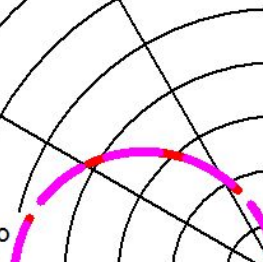
Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	1400	Colour temperature [K]:	3000
W system:	36.8	MacAdam Step:	3
Im source:	5000	Life Time LED 1:	78,000h - L70 - B10 (Ta 25°C)
W source:	33	Lamp code:	LED
Luminous efficiency (Im/W, real value):	38	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]:	700	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	28	Intervall temperatura ambiente:	from -20°C to +35°C.
CRI:	80		

$I_{\max}=247 \text{ cd}$  C95-275  $\gamma=90^\circ$



Graph showing Lux vs. distance (m) for a 36.8 W LED at  $h=1.17$  m and  $\alpha=0^\circ$ . The graph displays multiple curves representing different beam diameters, with Lux values ranging from 0.0 to 0.2.