



GRANDE

8408513

GRANDE - 18 LED 3000K 28°

Lighting information



Source power type	18 LED
Colour temperature	3000K
CRI	>80
MCADAMS	3
LM 80/TM-21	L80B10@>60Kh

Source power	40,50 W
Nominal flux	4500 lm

Plug-in power	44,00 W
Real flux	3900 lm
Maximum intensity	3855 cd/klm
Beam angle	28°

Power Supply Unit	220 ÷ 240V
Operating frequency	0/50/60 Hz
Power factor	0,95
Dimmable	Not dimmable
Safety class	I
Luminaires of B16A MCB	Max 30
Inrush current	10A 200µsec
Wiring	External
Cable section	3 x 1,50 mm ²
Cable length	3.000 mm;
Cable type	H07RN-F
Connector	To be ordered separately

Protection Rating	IP68 Full Dry (2m)
Breaking Strength	IK 10
Drive-over capacity	2.500 Kg

Energy efficiency class	A/A+/A++
Diffuser type	Transparent extra-clear glass
Diffuser thickness	12 mm

Colours

Standard colour

- .01 Black



Platek®

PLATEK s.r.l.
 Via Paderno, 19 | 25050 Rodengo Saiano (BS) ITALY
 P.IVA 03320290178 | Codice fiscale 03007130176
 Registro delle Imprese di Brescia n. 03007130176 REA 311057
 Capitale sociale Euro 1.000.000,00 i.v. Società con unico socio

Last update:04/02/2022



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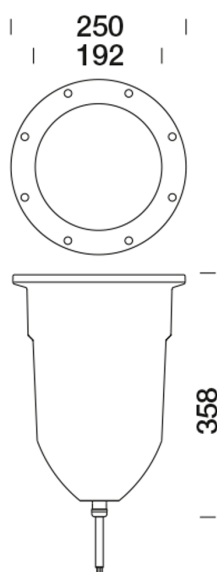
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Product features

Die-cast body manufactured in EN 44300 aluminium alloy with very low copper content. A4 Stainless steel screws. Subjected to galvanic anodizing treatment divided into distinct phases: mechanical satin finishing, surface degreasing, anodic oxidation and final sealing. The product is painted following a continuous two step paint process (epoxy-based primer + polyester-based colour finish), which allows to generate a single thick protective coating which then generates a protective barrier against atmospheric agents and UV rays. IP68 Degree of protection with Full Dry system which avoids condensation inside the product. The installation of the recessed housing in cast concrete with a 20-30 cm gravel soakaway. Only an IP68 connection to the power supply can guarantee the same protection to the fixture. Outer housing and connector to be ordered separately.

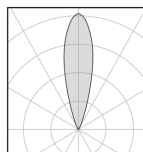
Technical dimensions



Technical shipping information

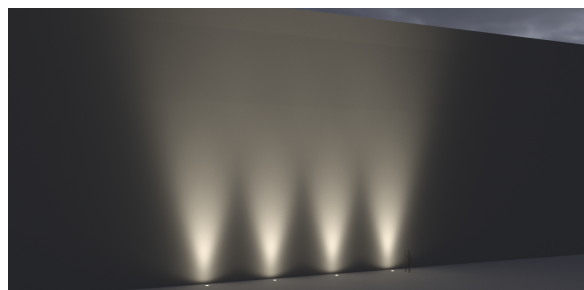
Net weight	7,60 kg
Gross weight	8,30 kg
Packaging width	280,00 mm
Packaging height	280,00 mm
Packaging depth	460,00 mm

Lighting information



Plug-in power	44,00 W
Real flux	3900 lm
Maximum intensity	3855 cd/klm
Beam angle	28°

Lighting Simulation



Medium beam angle

simulation made with GRANDE 44,0 W 3000K	
Optics:	28°
Code:	8408513
Distance from wall:	0,50 m
Distance between products:	5 m
Wall height:	20 m

Plug-in power	44,00 W
Real flux	3900 lm
Maximum intensity	3855 cd/klm
Beam angle	28°

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Mechanical accessories



8918205
Anti-slip glass

| Ø 257 |



| 435 |



8945010
Recessed box Ø 250 mm H. 435 mm

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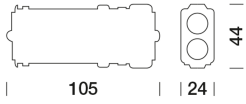


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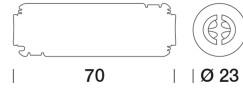
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Electrical accessories



8917004
IP68 IN/OUT connector for 3x4 mm² cable



8917014
IP68 connector for 3x1,5 mm² cable

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The process of galvanisation and multi-coating protection

Platek goes well beyond the standards required for conventional protection processes, making use of its longstanding and in-depth expertise in aluminium alloys. All the aluminium components of the products - extruded, die-cast or turned - are subjected to a galvanic anodizing process in the phase following mechanical processing. The process increases their wear resistance and improves the adhesion of the paint. Galvanization involves three distinct phases: mechanical satin finishing and surface degreasing, anodic oxidation and fixing. After the first phase that eliminates any impurities, the aluminium body is immersed in special electrolytic tanks, in which the aluminium surface is transformed into aluminium oxide, which makes the metal more resistant. To respond optimally to the needs of the global market, all Platek products undergo a two-layer painting process. After preparation with washing and rinsing in accordance with the strictest environmental standards, the product is coated with an epoxy primer which guarantees, in addition to anodizing, an excellent degree of protection. The final step is the preparation of the polyester powder which gives the final velvety finish of the component. These last two phases, being done in a continuous cycle, form a single high-thickness layer that is resistant to the action of UV rays and atmospheric agents. This process allows corrosion resistance in salt fog that far exceeds the average standards of the market to be achieved.

The gluing process and plasma treatment

One of the most complex and delicate aspects in outdoor lighting products is the fitting of glass onto the lighting body. This must ensure over time an excellent degree of insulation from atmospheric agents, even in harsh environmental conditions, to maintain a stable performance with zero maintenance. The gluing process of the glass on Platek products is managed at an automated workstation, preceded by a pre-treatment of the surfaces with atmospheric pressure plasma. Pre-treatment modifies the characteristics and ionic properties of the treated surfaces, activates the polar materials at strategic points, removes any residue of detaching agents, such as silicones and oils with a precision microcleaning, favouring excellent wettability of the bonded surfaces and a stable seal in time. The gluing process of the glass with specific plasma treatment allows a bonding force four times greater than similar products to be obtained. The shaping of the surfaces is followed by the application of the silicone and the assembly of the glass onto the lighting body using an automated process that guarantees perfect sealing of the lamp.

Precise LED selection

All LEDs used by Platek, once assembled by trusted personnel are tested with suitable instruments to check the colour specification required by Platek standards. The choice of using only 3 McAdams colour steps and with a CRI value exceeding 90, provide a high level of light quality that is difficult to find in the world of outdoor lighting. As far as LED products are concerned, Platek has adopted a system of protection against electrostatic discharge along the entire production chain of electronic components to increase the resistance of circuits to power surges.

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