FESSURA

3550117

FESSURA - LED 3000K 1.5° x 50°

Lighting information

Source power type	LED
Colour temperature	3000K
CRI	>80
MCADAMS	3
LM 80/TM-21	L80B10@>60Kh
Source power	22,00 W
Nominal flux	1195 lm
Real flux	14 lm
Maximum intensity	47880 cd/klm
Beam angle	1.5° x 50°
Power Supply Unit	24V
Operating frequency	DC
Dimmable	PWM
Safety class	III
Wiring	External
Cable section	1 x 0,50 mm^2
Cable section	1 x 1,00 mm^2
Cable length	200 mm;
Cable type	H05V2-K
Protection Rating	IP65
Breaking Strength	IK 08
Energy efficiency class	A/A+/A++
Diffuser type	Transparent methacrylate
Diffuser thickness	2 mm

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

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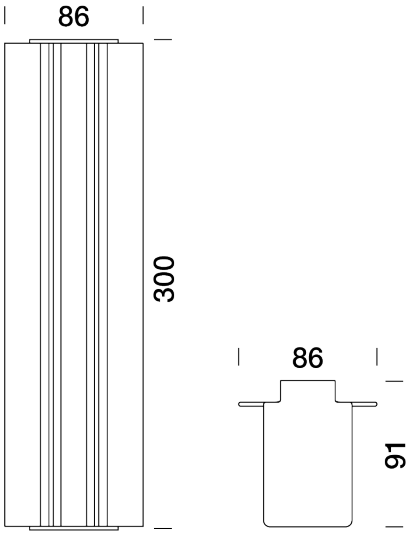
Product features

Product composed by an optical unit and a recess box, to be purchased separately. The recess box is manufactured in extruded primary aluminium, anodized in black colour. Patent pending optical group, consisting of a system of lenses made of aluminised PMMA. The optical group, with IP65 protection rating, can be connected in series or in parallel in order to create almost infinite lines of light. The PCB is protected by conformal coating process, which prevents oxidation. Before fixing the diffuser on the Platek products a Pre-treatment using an atmospheric pressure plasma process is carried out on the surface. The process activates the ionic load on the surface exactly where it is needed, thus promoting the best silicone grip possible and removing any residual release of agents for a longer lasting seal. The next steps are the coating of silicone and the assembly of the diffuser on the lighting fixture, with an automated process to guarantee the perfect sealing of the lamp.

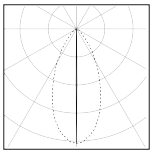
Technical dimensions



Technical shipping information

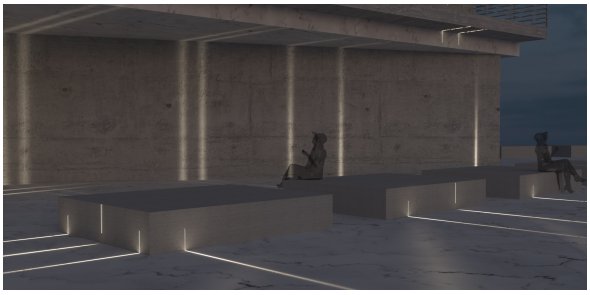
Net weight	0,23 kg
Gross weight	0,52 kg
Packaging width	460,00 mm
Packaging height	130,00 mm
Packaging depth	110,00 mm

Lighting information



Real flux	14 lm
Maximum intensity	47880 cd/klm
Beam angle	1.5° x 50°

Lighting Simulation



Elliptical beam angle

simulation made with FESSURA 3000K	
Optics:	1.5° x 50°
Code:	3550117

Real flux	14 lm
Maximum intensity	47880 cd/klm
Beam angle	1.5° x 50°

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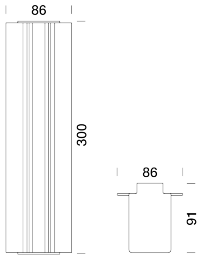
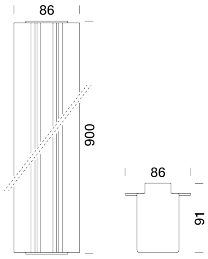
Mechanical accessories

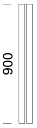


8945131
Recessed box 300 mm 1 light module



8945133
Recessed box 900 mm 3 light modules

8905121
Optical covers 300 mm



8905123
Optical covers 900 mm

8905124
Optical covers 1200 mm

8905126
Optical covers 1800 mm

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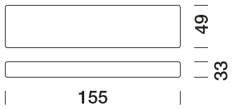
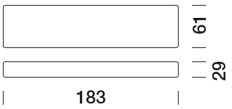
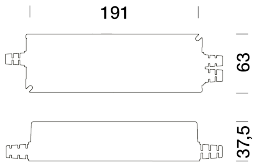
Electrical accessories



8956127
IP67 Power supply (24V DC - 75W)



8956307
IP20 Power supply (24V DC - 75W)



8956313
Power supply DALI (24V DC - 120W) IP67

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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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