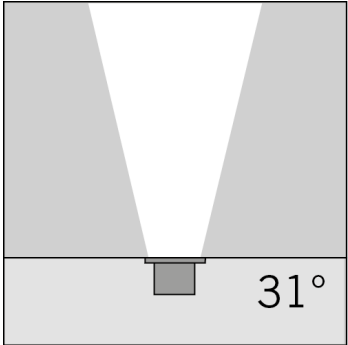
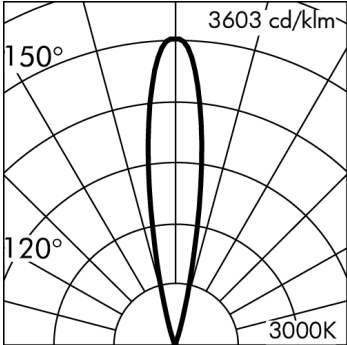
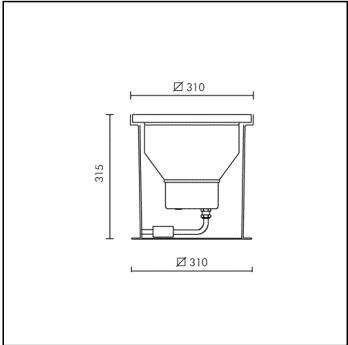
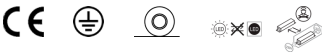


MEGAFLAT SQUARE



Version available on request without price surcharge.
Item no longer in the catalogue.

S.7991H
36 module LED 2700K 220-240Vac **DIMMABLE DALI; DALI 2**
Inground driveover



Light Source Technical Data

Light source type:	LED
Colour temperature:	2700K
Rated module luminous flux:	5749lm
Rated luminaire luminous flux:	3754lm
Rated module power:	54.8W
Rated luminaire power:	58W
Luminaire efficacy:	65lm/W
Color Rendering Index:	CRI 90
Standard Deviation Color Matching:	MacAdam step 3

Power Supply Technical Data

Voltage (AC):	220-240Vac
Frequency (AC):	50/60Hz
Voltage (DC):	170-276Vdc
Dimmable:	DALI; DALI 2
Inrush Current:	10A 200µsec
Max. quantity of fixtures for Minature Circuit Breaker type B16A:	30
Max. quantity of fixtures for Minature Circuit Breaker type C16A:	51
Surge protection (between L-N):	4kV
Surge protection (between L/N-PE):	5kV

Temperature and life time Technical Data

LED Lifetime:	L80 B10 70.000h Ta 25°C L80 B10 50.000h Ta 40°C
Lifespan of the LUMINAIRE:	min. 70.000h Ta 25°C min. 50.000h Ta 40°C
Performance ambient temperature:	Tq 25°C
Operating ambient temperature range:	da -20°C a +50°C
Storage temperature range:	da -20°C a +60°C

Technical Installation Data

Electrical insulation class:	I
Protection class IP:	IP65 IP67
Mechanical resistance:	IK10
Glass surface temperature:	46°C
Weight:	10.5Kg
Maximum load capacity:	3500Kg @ 30Km/h
Power cable:	0.5m - H07RN-F

SPECIAL VERSION ON REQUEST: this Luminaires can be supplied with a surcharge in class III (without power supply). Requires working remote power supply in costant current at 1050mA Vfmin=46.8Vdc Vfmax=55.8Vdc. Example SIMES compatible power supplies (check the complete list of the drivers on the catalogue):
Art. S.2437 POWER SUPPLY MULTI-POWER 230V/350mA-1050mA DALI DIMMABLE, 1-10V, PUSH DIM IN BOX IP55 60W MAX 5 OUTPUTS
Art. S.3427 POWER SUPPLY Dali, 1-10V, PUSH MULTI-POWER 230V/350mA-1050mA IP20
NB: Use 1 Power Supply for each Luminaires

S.7991H REV: 0

MEGAFLAT SQUARE**S.7991H****SPECS SHEET****LUMINAIRE TYPE**

Inground drive over fitting. Recessing depth 195 mm. IP rating IP 65 IP67

MATERIAL CHARACTERISTICS

"Copper Free" Aluminium die cast housing in EN AB-44100 with high resistance against corrosion. Stone wash surface treatment prior to painting process. Front trim in aluminium. A4 grade Stainless Steel screws with 2,5-3% molybdenum content which increases the resistance against corrosion. Pre treated Silicone Gaskets. Painting Process : 3 Step Process

1) Surface treatment with BONDERITE. A heavy metal free chemical surface treatment containing ceramic nano particles giving a cohesive, inorganic and highly dense protective coating. 2) PRE POLYMERIZATION a process of introducing an epoxy primer with excellent characteristics to the paint which also offers very high resistance to oxidation due to its Zinc content. 3) POLYMERIZATION a process with the application of polyester powder with high resistance against UV rays and harsh weather conditions. Resistance test protection for Marine applications for 1200h. Mechanical resistance IK 10 Maximum load capacity 3500 Kg

LIGHTING PERFORMANCE

Sophisticated optical systems able to considerably reduce glare thanks to the retracted position of the LED. Optical reflector in black polycarbonate combined with transparent methacrylate lenses (Versions with LED). The lathed anodized reflector is composed of HI-GRADE 99,98% pure anodized aluminium with a bright polish finish (Version with COB). transparent Toughened glass 19mm thick (15mm Flat-Megaflat). Lamp adjustable $\pm 15^\circ$ position. LOR -- Compact electronic ballast to guarantee better lamp stability, lifetime and reduced energy consumption.

LOW SURFACE TEMPERATURE

Surface temperature of glass 46°C (Ta 25°C) Electronic Ballast generating less heat. Specific layout of internal components allow for better heat dissipation therefore limiting the temperature generated inside the fitting.

RECESSING BOX

Recessing box in Polypropylene with cable entry on all 4 sides also allows: 1) Easy wiring; 2) Cable management for fast connector; 3) Easy access to the fitting for maintenance purposes.

WIRING

Supply 0.5m cable section type H07RN-F secured by cable gland PG 13.5 ($\varnothing 6 \div 12$ mm) and sealed with B component epoxy resin, wired internally protected by silicon sheaths. Fast connector M20 ($\varnothing 5 \div 14$ mm) supplied as standard for single cable connection. Connector housed inside the recessing box. Isolation: CLASS I. Available colours: Black (cod.09). Weight: 10.5 Kg Glow Wire test: 750°C

LED module included

This luminaire contains built-in LED modules. In case of damage or malfunction please contact the manufacturer to receive additional instructions on how to replace and relative spare parts to order. The LED modules cannot be handled in the luminaire by the end user.

This product contains a light source of energy efficiency class (EPREL - European Product Registry for Energy Labelling): F.

LED modules are engineered accordingly to the existing regulations of Lumen Maintenance (LM80) and Technical Memorandum (TM21), where uniformity and quality of the light is 70,000 hours referred to L80 B10 Ta 25°C (50,000 hours referable to L80 B10 Ta 40°C). Lifespan of the luminaire min. 70.000 hours Ta 25°C , min. 50,000 hours at 40°C . Performance Ambient temperature Tq 25°C . Operating ambient temperature range is from -20°C to $+50^\circ\text{C}$. Storage temperature range from -20°C to $+60^\circ\text{C}$.

ELECTRONIC EQUIPMENT SENSITIVE TO OVERVOLTAGE.

We recommend installing surge protection devices "SPD" in the electrical system. Protection devices prevent the intensity of these phenomena's, protecting the appliances from the risk of being damaged and extending the lifespan. Outdoor luminaires are subject to all types of permanent, temporary, or transient electrical disturbances. Such disturbances can create permanent damage or failure affecting its performance and durability. The surge protection device (supplied by SIMES) is utilized to limit the destructive effect of these phenomena. We suggest that each luminaire must be connected to one protection device at not more than 10m away. For correct coordination of the protections, a surge protection device must also be provided inside the electrical panel of the system (the selection of this device must be carried out from the electrical designer and is not supplied by SIMES).

MEGAFLAT SQUARE**S.7991H****ACCESSORIES****S.5506****4 WAY GEL CONNECTOR**

For cables up to 3x2,5mm² diam. Min 6,5mm / Max 12mm IP68
Dimensions: 105 x 44 x 24 mm