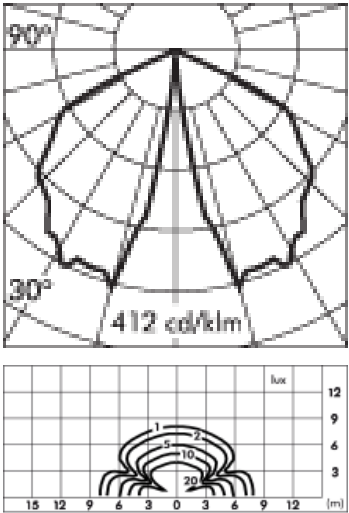
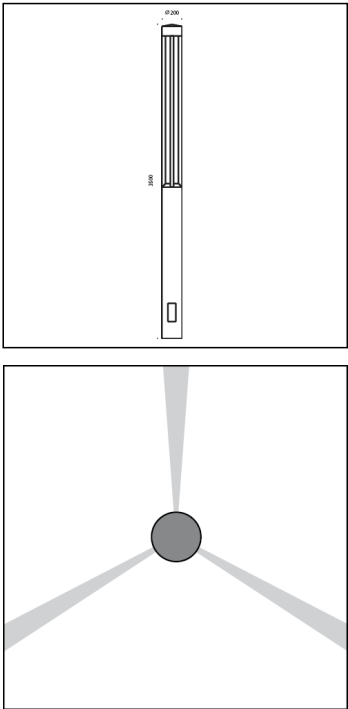


STELO



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

**S.4120W**  
1 module COB 3000K 220-240Vac **DIMMABLE DALI2; 1-10V; 0-10V**  
Urban lighting



Light Source Technical Data

Light source type:	COB
Colour temperature:	3000K
Rated module luminous flux:	5970lm
Rated luminaire luminous flux:	4235lm
Rated module power:	48.4W
Rated luminaire power:	55W
Luminaire efficacy:	77lm/W
ULR:	2%
BUG:	B2 - U3 - G1
CIE Flux Code:	47 89 99 98 100
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:	DALI2; 1-10V; 0-10V
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):	8kV
Surge protection (between L/N-PE):	8kV

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:	II
Protection class IP:	IP65
Mechanical resistance:	IK10
Weight:	31.19Kg

**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 1400mA V<sub>fmin</sub>=V<sub>dc</sub> V<sub>fmax</sub>=V<sub>dc</sub>. Example SIMES compatible power supplies (check the complete list of the drivers on the catalogue):  
Art. S.2410 POWER SUPPLY DALI2 230V/350-1050mA 57,8W IP67  
Art. S.3427 POWER SUPPLY Dali, 1-10V, PUSH MULTI-POWER 230V/350mA-1050mA IP20  
NB: Use 1 Power Supply for each Luminaires

**STELO**  
**S.4120W****SPECS SHEET****LUMINAIRE TYPE**

Post top luminaire. IP rating IP 65

**MATERIAL CHARACTERISTICS**

Extruded EN AW-6060 aluminium profile, die-cast EN AB-47100 aluminium housing with high corrosion resistance. Stone wash surface treatment prior to painting process. 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

**LIGHTING PERFORMANCE**

The excellent mechanical resistance of the polycarbonate diffuser makes the fitting suitable for those areas at risk of vandalism; the clearness of the diffuser assures a high LOR. On request, STELO can also be supplied with an opal polycarbonate diffuser, for a more diffuse and discreet light distribution. Lamp fixed position . LOR --

**INSTALLATION AND MAINTENANCE**

Luminaires cannot be installed directly to the ground or cement bases without the relative accessories because the contact between the two different materials may lead to an accelerated process of oxidation of the fixture. The wiring of the fixtures must strictly respect the specifications. Where not provided by the fixture loop in /out or through wiring will cause infiltration of humidity and if in contact with the cables this may lead to an accelerated process of oxidation.

**WIRING**

LED versions: PROTECTIONS AGAINST DISCHARGES AND HIGH VOLTAGE SPIKES, Controlgear equipped with protections against discharges and high voltage spikes on the mains: 3,5kV differential mode (L-N), 4,0kV common mode (PE). STELO can be split in two pieces for easy transportation. Easy relamping by opening the pivoting head of the bollard. With door for electrical inspections and connection box with fuses. Isolation: CLASS II .

Available colours: Aluminium grey (cod.14), Anthracite grey (cod.24). Weight: 31.19 Kg Glow Wire test: --

**LED module included****STELO REGISTERED DESIGN**

**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): E.**

**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°C. Storage temperature range from -20°C to +60°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).

## STELO S.4120W



### ACCESSORIES



**S.2499**  
**SURGE PROTECTION DEVICE 10kV CLASS II**  
Compatible with all lighting fixtures and electronic ballast accessories classified under electrical Protection Class II Rated voltage 230-277V SPD type 2+3 Max Surge Protection 10kV IP67  
EACH FIXTURE MUST BE CONNECTED TO ONE SINGLE SURGE PROTECTION DEVICE AT A DISTANCE OF NO MORE THAN 10m AWAY.



**S.4129**  
**FLANGE**  
Ø 195 mm h 800mm flange to be fixed in concrete with stainless steel screws for fixing in the ground.



**S.2492**  
**IP20 Interface Virtual Midnight/Bilevel (Step-Dimming)**  
This device is designed to maximize energy savings in various lighting applications. The devices can operate in two modes and are compatible exclusively with Simes DALI lighting fixtures: 1. Virtual Midnight: This system is designed for public outdoor lighting, enabling the automatic reduction of light output during periods when full-power operation is unnecessary. Configuring the system is straightforward, as programming is done via rotary selectors built into the device. 2. Bilevel (Step-Dimming): The two-level dimming system is commonly used in urban and street lighting, as well as in industrial facilities, emergency stairwells, parking lots, and other similar applications. The Bilevel function allows for adjusting the light intensity between two levels, using controls such as a relay, a twilight switch paired with a timer, or a motion sensor. The lighting level can be increased or decreased through simple programming using the rotary selectors built into the device. Dimensions 60mm x33mm x15mm  
It can manage a maximum of 7 DALI luminaires/devices. Possibility to extend up to max. 64 luminaires through the DALI Expander (S.2494).



**S.2493**  
**IP67 Interface Virtual Midnight/Bilevel (Step-Dimming)**  
This device is designed to maximize energy savings in various lighting applications. The devices can operate in two modes and are compatible exclusively with Simes DALI lighting fixtures: 1. Virtual Midnight: This system is designed for public outdoor lighting, enabling the automatic reduction of light output during periods when full-power operation is unnecessary. Configuring the system is straightforward, as programming is done via rotary selectors built into the device. 2. Bilevel (Step-Dimming): The two-level dimming system is commonly used in urban and street lighting, as well as in industrial facilities, emergency stairwells, parking lots, and other similar applications. The Bilevel function allows for adjusting the light intensity between two levels, using controls such as a relay, a twilight switch paired with a timer, or a motion sensor. The lighting level can be increased or decreased through simple programming using the rotary selectors built into the device. Dimensions 175.5mm x86.5mm x43mm  
It can manage a maximum of 7 DALI luminaires/devices. Possibility to extend up to max. 64 luminaires through the DALI Expander (S.2494).



**S.2494**  
**DALI EXPANDER**  
The IP20 DINrail device is used to extend a DALI circuit via broadcast. The received input signal is amplified and transmitted in broadcast to the DALI luminaires / DALI control gears. The DALI Expander has an integrated DALI bus power supply (200mA) which can control up to a maximum of 64 DALI devices within 300 meters.



**S.2497**  
**IP67 Interface Virtual Midnight/Bilevel (Step-Dimming) + Expander up to 64 luminaires**  
This device is designed to maximize energy savings in various lighting applications. The devices can operate in two modes and are compatible exclusively with Simes DALI lighting fixtures: 1. Virtual Midnight: This system is designed for public outdoor lighting, enabling the automatic reduction of light output during periods when full-power operation is unnecessary. Configuring the system is straightforward, as programming is done via rotary selectors built into the device. 2. Bilevel (Step-Dimming): The two-level dimming system is commonly used in urban and street lighting, as well as in industrial facilities, emergency stairwells, parking lots, and other similar applications. The Bilevel function allows for adjusting the light intensity between two levels, using controls such as a relay, a twilight switch paired with a timer, or a motion sensor. The lighting level can be increased or decreased through simple programming using the rotary selectors built into the device. Dimensions 175.5mm x86.5mm x43mm