

vizULO



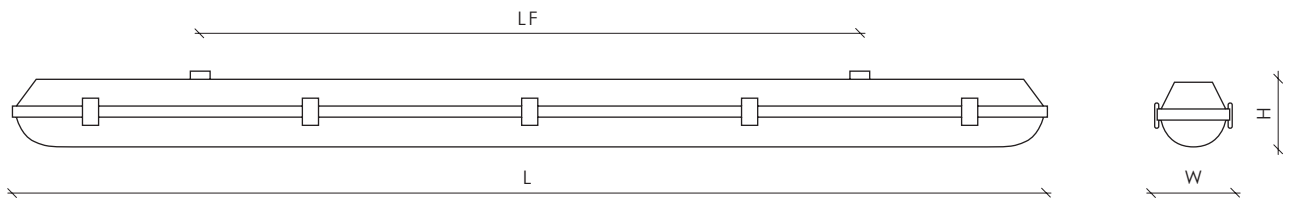
STONE

Stone



LIGHT
GREY

Other colors
available on request

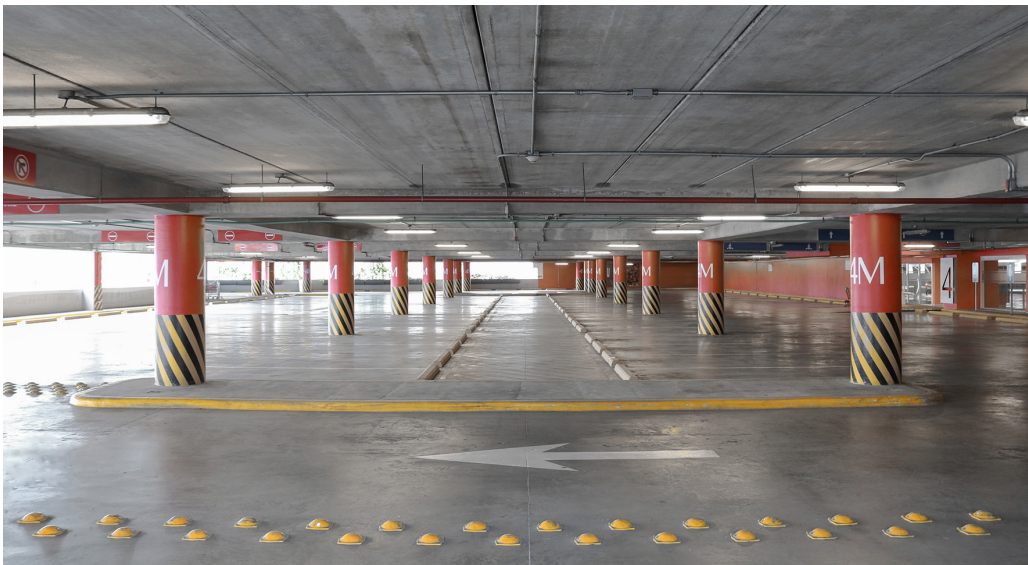


Dimension L x W x H	LF
600 x 93 x 82 mm	330 mm
1200 x 93 x 82 mm	850 mm
1500 x 93 x 82 mm	1000 mm

Applications



▾ Warehouse



▾ Parking space



▾ Utility room

Technical information



IP65 / IP66 / IP67

IK08



RoHS



CASAMBI



SundaHus¹⁶
assessment
available



V	220 - 240
Hz	50 - 60
W	10 - 75
lm	1300 - 10489 ¹⁾
lm/W	122 - 146
K	3000 / 4000 / TW 2700 - 6500 K ²⁾
°C	-40 to +35
CRI	>80 / >90 / >95 ³⁾ >90 / >95 ⁴⁾

Body:	Light grey polycarbonate (PC)
Dimming:	DALI / 1-10 V / Bluetooth / Non dimmable
Sensor:	Microwave / RF
Initial chromaticity:	MacAdam 3
Lifetime:	100 000 h (L80B10) at Ta = 25 °C* 50 000 h (L90B10) at Ta = 25 °C*
Warranty:	5 years 2 years (emergency configuration)
Mounting:	Surface / Pendant
Cover:	Opal polycarbonate (PC)
Human Centric Lighting:	Available
Ambient temperature:	-15 to +35 °C non dimmable ⁵⁾ -25 to +35 °C dimmable ⁵⁾ -40 to +35 °C freezers ⁵⁾ 0 to +35 °C emergency

¹⁾ Lumen output indicated at CRI > 70

²⁾ 1800 / 2200 / 2700 / 3500 / 5000 / 5700 / 6500 K available on request along with other not listed CRI and CCT

³⁾ Standard LED CRI

⁴⁾ Sun-Mimic LED CRI

⁵⁾ Minus °C temperature applicable only when ventilation glands are ordered as accessories

⁶⁾ Check SundaHus web page for product assessment results

* This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Technical parameters for final product can differ from typical data by 7% due to special conditions of LED manufacturing processes.

STONE Length - Power table

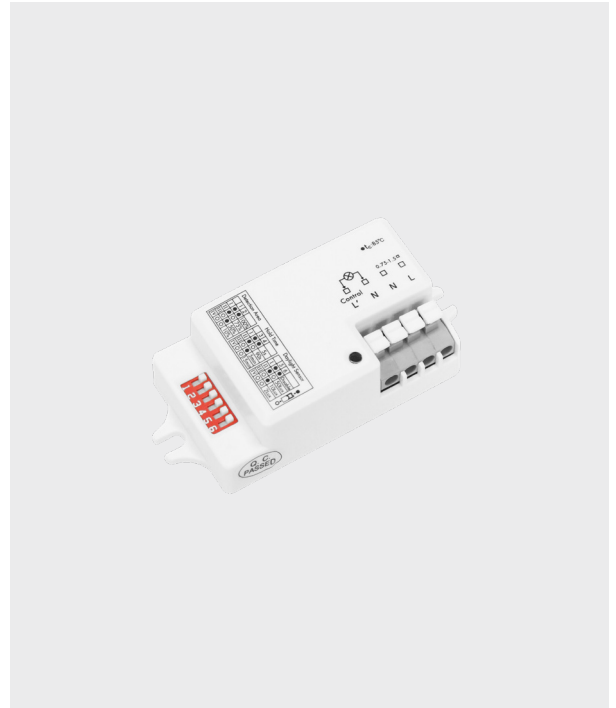
Length/Power	600 mm	1200 mm	1500 mm
Single	10 - 20 W	10 - 45 W	15 - 75 W
Single EM*	-	10 - 30 W	15 - 40 W

* Emergency

Sensors

Microwave sensor

Power Source:	220 – 240 VAC (50/60 Hz)
Rated load:	400 W
Stand-by power:	<0.5 W
Sensitivity:	10% / 50% / 75% / 100%
Hold-time:	5 s / 90 s / 5 min / 15 min *
Daylight sensor:	2 lux / 10 lux / 50 lux, disable *
Microwave frequency:	5.8 GHz \pm 75 MHz
Detection range (diameter):	10 m *
Installing Height (Max):	6 m *
Detection angle:	30° ~ 150° *
Working temperature:	-20 °C ~ 60 °C **
IP rating:	IP20
Certificates:	Semko, CB, CE, RCM, RoHS, RED



RF wireless sensor

Power Source:	DALI
Mounting height (Max):	5 m
Detection angle for PIR detection:	84°
Detection angle for light measurement:	30° - 60°
Light measurement range:	0.5 - 2000 lux
Type of protection:	IP20
Working temperature:	-20 °C ~ +50 °C **
Min temperature difference between ambient temperature and detected object:	\pm 4 °C



* Other values available on demand, contact us for more information!

** Minimal Luminaire working temperature will be same or higher than for specific Sensors (if used)

Emergency lighting

Stone has an option to have Emergency lighting (from **1200 mm**)

Features

- Self contained emergency lighting
- 1 or 3 h rated duration
- Dimmable and non-dimmable versions available
- Constant power output
- Deepdischarge protection

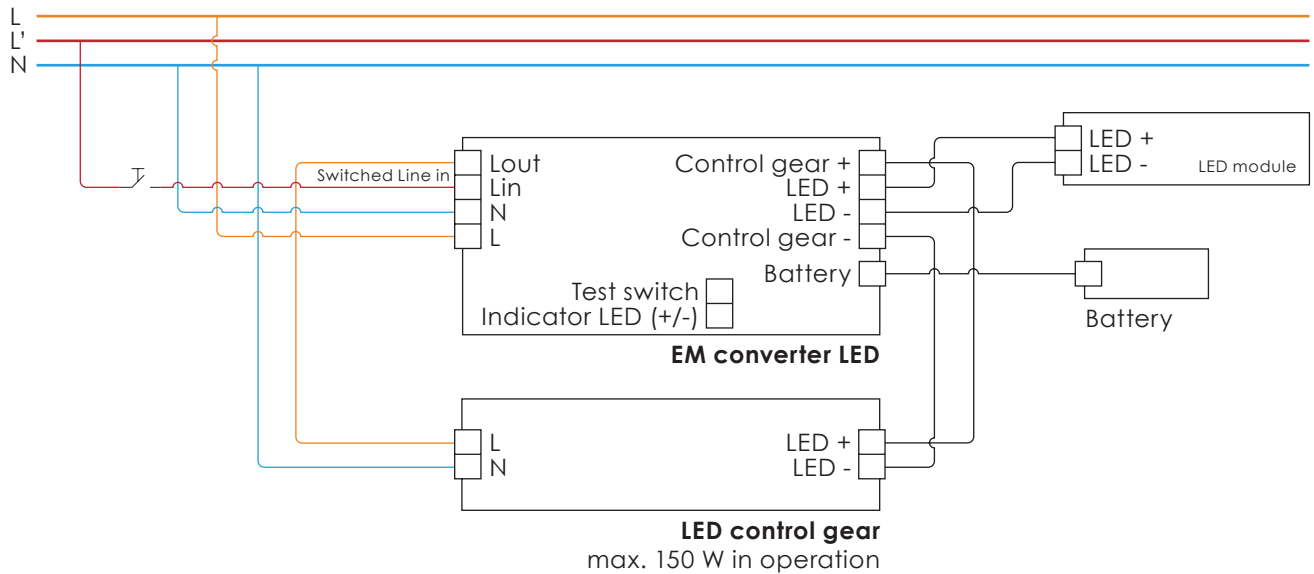
While Mains voltage is present Emergency controller is also charging the connected battery
 Rated emergency duration can be chosen (based on battery capacity) and can be 1 h or 3 h

Operation

Stone luminaire which is equipped with Emergency lighting will work in 2 modes based on electrical conditions:

- 1) If Mains voltage is present, luminaire will work with its programmed power (just like in case without Emergency lighting)
- 2) If there is outage of Mains voltage, luminaire will work in Emergency mode with little power (about 2.5 W) while feeding from the battery

Simple wiring diagram



Additional Test switch

For connection to the emergency
 For checking the device function

Status indication LED

Two-colour status display LED (bi-color)
 Green: system OK, Red: fault



Exploring Stone

Easy disconnection of LED module and driver plate



Gasketing to ensure IP protection

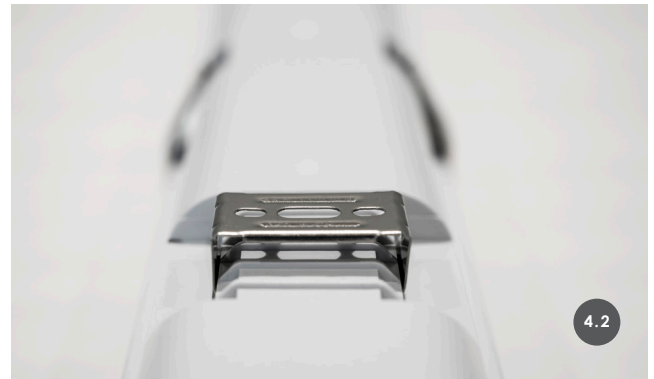


Through wiring with five pole terminal blocks | 1,5 mm diameter cables

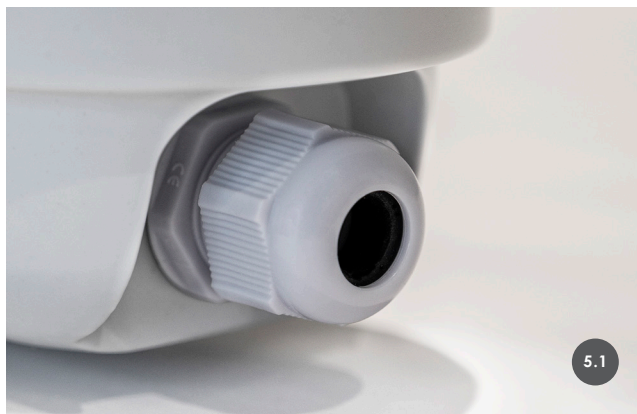


Luminaire mounting directly to ceiling with the use of screws (4.1)

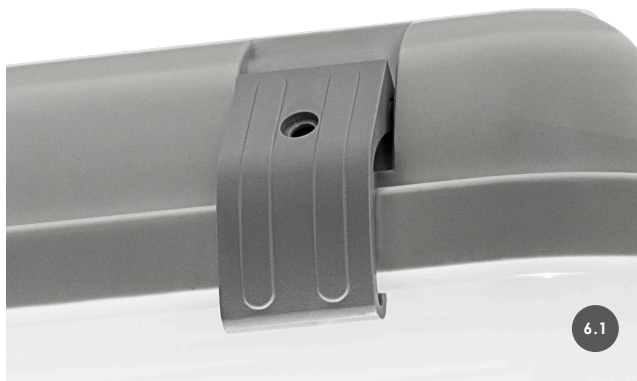
Luminaire mounting with stainless steel bracket (4.2)



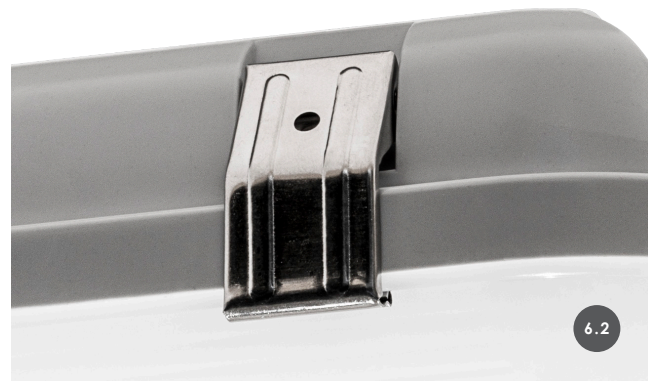
Ventilation gland for cable entry up to 12 mm



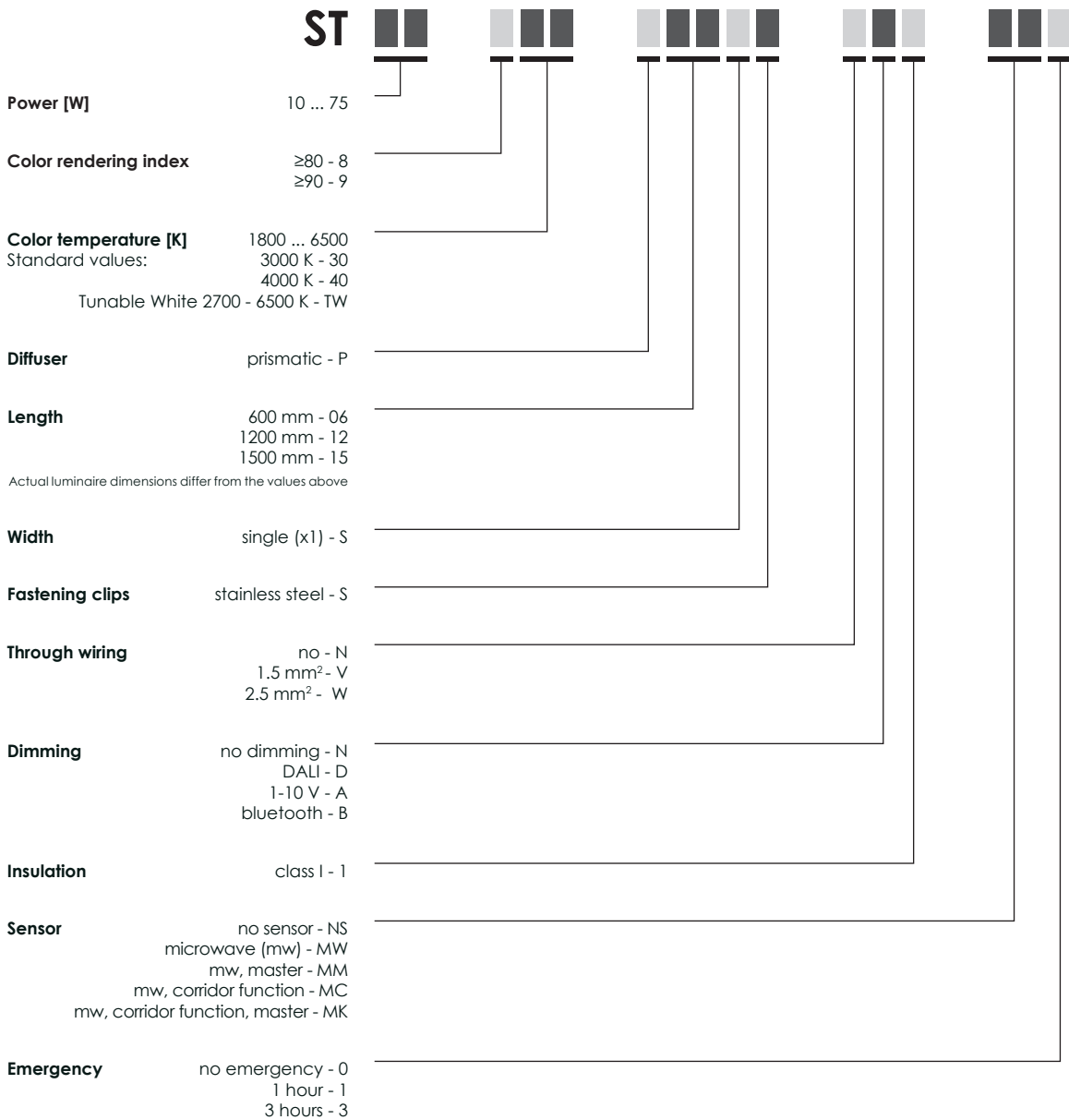
Catches of polyamide



Catches of stainless steel

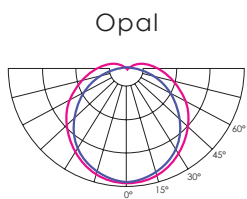


Model name principles



EXAMPLE ST 45 840 P12SS VD1 N1NS0

Optics



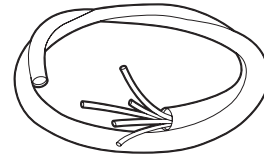
Accessories

**Connection cable 5x1.5 mm²
(x2.5 m) with open end**

Art. 70042016

**Connection cable 5x2.5 mm²
(x2.5 m) with open end**

Art. 70042017

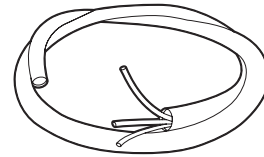


**Connection cable 3x1.5 mm²
(x2.5 m) with open end**

Art. 70042018

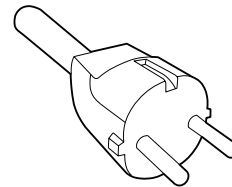
**Connection cable 3x2.5 mm²
(x2.5 m) with open end**

Art. 70042019



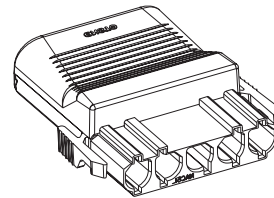
**Connection cable 3x1.5 mm²
(x2.5 m) with plug**

Art. 70042022



**Connection cable 5x1.5 mm²
(x2.5 m) with Ensto (NAC51S.W)
5-way plug**

Art. 70042009

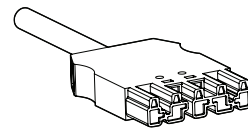


**Connection cable 5x1.5 mm² (x2.5 m)
with Wago Winsta (770-115) 5-way plug**

Art. 70042007

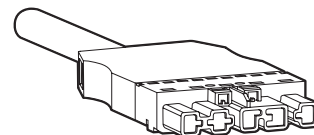
**Connection cable 5x2.5 mm² (x2.5 m)
with Wago Winsta (770-115) 5-way plug**

Art. 70042012



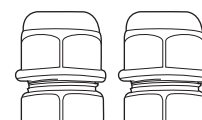
**Connection cable with DALI 5x1.5 mm²
(x2.5 m) with Wago Winsta(770-1115)
5-way plug**

Art. 70042030



Set of 2 ventilation glands

Art. 70043010



Certification



CE – conformity with European Union's health, safety and environmental protection standards

The CE mark is placed on products to state conformity with the relevant EU health, safety and environmental protection standards. In case of electronic products, the standards are, for example, the Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive, Waste Electrical and Electronic Equipment (WEEE) directive, the Electromagnetic Compatibility (EMC) directive etc. The mark ensures that the product can be sold anywhere in the European Economic Area (EEA).



UKCA - conformity with the relevant essential requirements of Great Britain

UKCA is a product mark intended to demonstrate compliance with the directives set by Great Britain (England, Scotland and Wales). It is analogous to the European Union's CE marking, meaning that depending on the type of product the applicable regulations are different. In case of LED lighting, the relevant requirements are compliance with the Electromagnetic Compatibility Regulations, the Electrical Equipment (Safety) Regulations, the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations and the Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations.



RoHS – compliance with European Union's RoHS directive

The RoHS (Restriction of Hazardous Substances in Electrical and Electronic Equipment) directive restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. The aim of the directive is to prevent the risks posed to human health and the environment related to the management of electronic and electrical waste.



Byggsvarubedömningen – product chemical content and life cycle assessment

Byggsvarubedömningen is a non-profit organization owned by large constructors and property owners in Sweden. The organization conducts assessments of various construction products based on chemical content and sustainability criteria. The constituent substances and product life cycle are evaluated and the product is assigned one of three levels:



Recommended
(green)



Accepted
(yellow)



To be avoided
(red)

Note: the Recommended level assessment is unavailable for electronic products since it is assumed that all electronic products contain brominated flame retardants.



SundaHus – product material data assessment

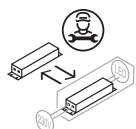
SundaHus i Linköping AB (publ) is a consulting company for the improvement of indoor environmental quality. The company conducts health and environmental assessments of building materials and assigns each product a letter evaluation:

- A** products that provide minimal health risks
- B** products that do not qualify for A, but do not match the criteria for C+, C- or D
- C+** products that risk exposure to substances of very high concern
- C-** products that risk exposure to toxic or volatile substances, as well as negatively impact the environment
- D** products that cannot be assessed due to insufficient data



LED module replaceable by a professional

This pictogram shows that the LED modules included in the luminaire are only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.



LED driver replaceable by a professional

This pictogram shows that the LED driver included in the luminaire is only replaceable by a professional. This labeling is a requirement following the introduction of European Union's Regulation on energy labelling for light sources (EU) 2019/2015.

References



↘
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