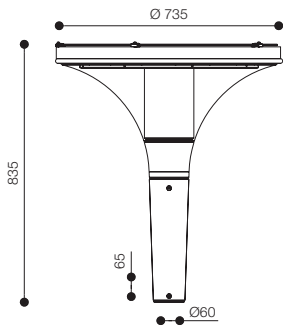


Stud Led Photovoltaic

Urban architectural lighting Led

Designer: P. Montalti



Outdoor light fitting

Photovoltaic LED fitting for pole top use on Ø 60mm poles

Colour

Anthracite

Suitable for

Main and secondary roads, cycle paths pedestrian areas, parking areas, public and private gardens, squares.

Accessories / compositions

Stud System

Technical details

- Die-cast aluminium body
- Thermoplastic wiring compartment closing door
- White led 16x1,2W 100 lm
- Acrylic transparent lenses developed by Mareco Luce
- Acrylic transparent diffuser
- Thermoplastic cover
- Stainless steel screws

Stud Led Photovoltaic

Dimensions	Power	Code	
Ø 735 x 800 mm	16 x 1,2 W	1879.1857	1

Stud Led Photovoltaic

photovoltaic panel

Urban architectural lighting Led



- Photovoltaic panel integrated into cover 43W of power
- Monocrystalline silicon
- Highly transmittant tempered glass 4mm thickness
- Hail resistant: Ø25 mm at 75 km/h

battery



- Integrated 210 W/h lithium ion battery placed inside the body of the fitting which interacts directly with the battery's microprocessor, through sophisticated electronics that verify the charge/discharge cycles, to determine the level of charge
- 5 LED indicators supply an accurate monitoring of charge
- Average battery life 4 years
- Type of battery used by video reporters, resistant to the most difficult environmental and utilization conditions
- No battery "memory", recharging always to 100%

optics



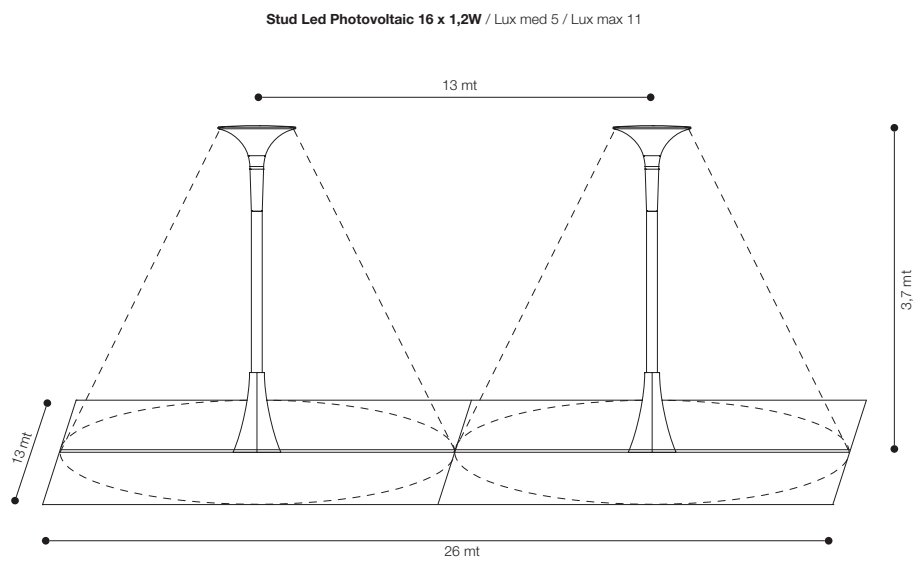
- Cree LEDs 16x1.2W 100 lm cool white 6000°K guaranteed 50.000 hours
- Highly transmittant acrylic transparent lenses developed by Mareco Luce with 55° light beam
- Innovative optics for a round symmetrical distribution of light on the ground
- Highly transmittant acrylic material
- 16 x 1 LED circuit boards connected in series placed in two concentric crowns. In case of malfunction of 1 LED, all others continue functioning
- Possibility of substituting a damaged led circuit board
- Heat dissipation through the aluminium frame

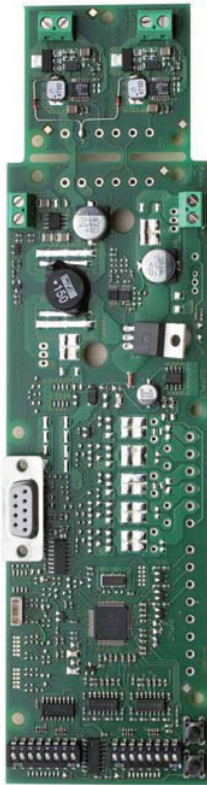


Advantages

- Zero installation costs
- Zero maintenance costs
- No CO2 emissions
- Possibility of installation in the absence of an electric network
- Easy installation on pole (Stud LED Photovoltaic pole top)
- Compact dimensions of battery 162 x 90mm placed in the wiring compartment

useful advice





Electronic circuit board managing the on/off and battery charge

The fitting is supplied with an on-board computer, which is:

- Designed to monitor and update daily the length of each day and night. It then calculates the average based on 3, 7 or 15 days of data. This allows it to anticipate the sunset and the sunrise
- Designed to communicate with the battery's microprocessor in order to know the real time battery charge and to modulate the luminosity (SMART mode).

The computer allows the user to decide various programming modes.

First choice: NORMAL mode or SMART mode

NORMAL mode

In **NORMAL** mode the luminous output is fixed at 100% for the complete length of time imposed by the selected dip switch.

In **NORMAL** mode 24 hours of illumination are guaranteed with a fully charged battery; the result of tests carried out in the Italian winter (December) at a latitude of 45° north (Reggio Emilia), the fitting remained lit, without fail, for 8 hours each night.

SMART mode

SMART mode directly regulates the light output of the LEDs based on:

- Battery charge
- Selected program of 2 or 3 nights in the absence of daily recharging
- Record of previous days operation
- Duration of nightly illumination

Second choice: running mode

- on at sunset for 8 hours
- on at sunset for 10 hours
- on at sunset for 4 hours, then passing to economy mode (reduced to 50% light output) until 2 hours before sunrise when it operates at full luminosity
- on from sunset to sunrise

Factory standard programming: SMART mode with "on" at sunset for 8 hours and a battery duration of 3 nights

Note: Install the light fitting in areas exposed to direct sunlight

Avoid areas with trees or buildings whose shadows could interrupt the recharging cycles
Without the above precautions, the table data are not guaranteed

