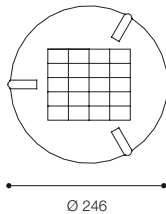
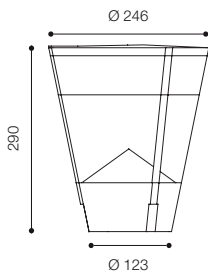


**An endless energy source...**





**Chone FV**

The 8 hours a day and 365 days a year continuous functioning of the fitting is guaranteed only on condition of maximum solar exposure of at least 4 hours a day.

Thanks to an oversized photovoltaic panel and the intelligent management of the battery charge, 4 nights are guaranteed even in the total absence of solar exposure.

It is obvious though, that the respect of the above parameters is influenced greatly by the positioning of the fitting, the quantity and quality of the solar exposure and the ambient temperature.

**Outdoor light fitting**

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

Safety against electrical shocks  
No electricity costs  
No black outs

**Colour**

Metallic grey / Black / Green

**Technical details**

- Reinforced thermoplastic base
- Led white 3 x 1W cold light
- Electronic board for the computer management of on/off of fitting and charge/discharge of batteries
- Batteries Ni-Mh 3,6V 2,8Ah
- Acrylic diffuser, prismatic inside
- Reinforced thermoplastic cap with integrated 4W polycrystalline silicium photovoltaic panel
- Stainless steel screws

**Suitable for**

Pedestrian areas, alleys, private gardens

**Special features**

The fitting turns on 15 minutes after sunset, with 8 hours of continuous functioning, turning off automatically thanks to built-in timer

Total recharging time (when batteries are completely discharged), with maximum solar exposure: 18 hours

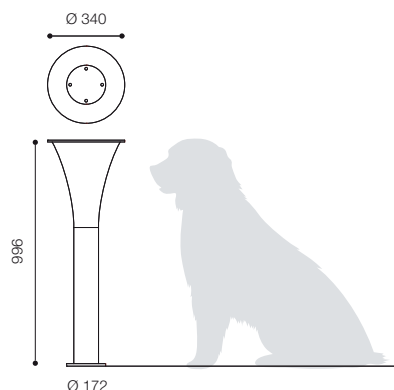
Total discharging time (when batteries are completely charged), without solar exposure: 4 nights

Totally energy saving



Dimensions	Power	Met. grey	Black	Green	
290 x 246 mm	Led White 4,5W	1018.185M	1018.185N	1018.185V	1





**Still**

The 8 hours a day and 365 days a year continuous functioning of the fitting is guaranteed only on condition of maximum solar exposure of at least 4 hours a day. 1 night is guaranteed even in the total absence of solar exposure. It is obvious though, that the respect of the above parameters is influenced greatly by the positioning of the fitting, the quantity and quality of the solar exposure and the ambient temperature.

**Outdoor light fitting**

Photovoltaic light fitting complete with base for floor fixing

**Colour**

Black - Opal

**Suitable for**

Pedestrian areas, alleys, private gardens

**Special features**

The fitting turns on at sunset, with 8 hours of continuous functioning, turning off automatically thanks to built-in timer  
 Total recharging time (when batteries are completely discharged), with maximum solar exposure: 7 hours  
 Total discharging time (when batteries are completely charged), without solar exposure: 2 nights  
 Totally energy saving  
 Safety against electrical shocks  
 No electricity costs  
 No black outs

**Technical details**

- Hot dipped galvanized steel base
- Hot dipped galvanized steel body
- Led white total absorption 1W cold light
- Electronic board for the management of on/off of the fitting
- Batteries Ni-Mh 1,2V 2,0Ah
- Opal acrylic diffuser
- Aluminium cap with integrated 3,2W polycrystalline silicon photovoltaic panel
- Stainless steel screws

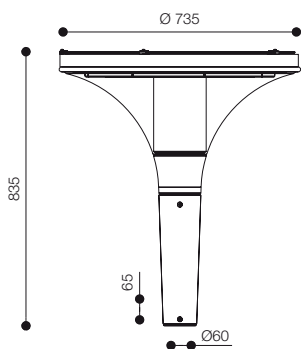
Dimensions	Power	Colour	Code	
Ø 340 x 996	Led 1W	Black	1017.185N	1



# 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

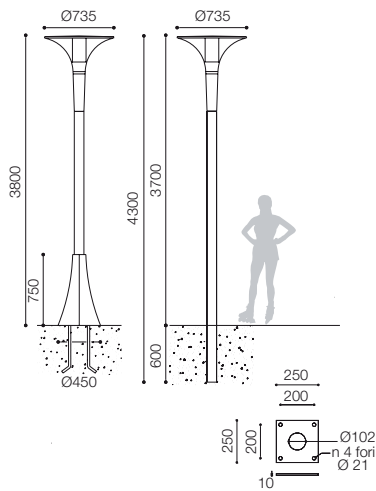
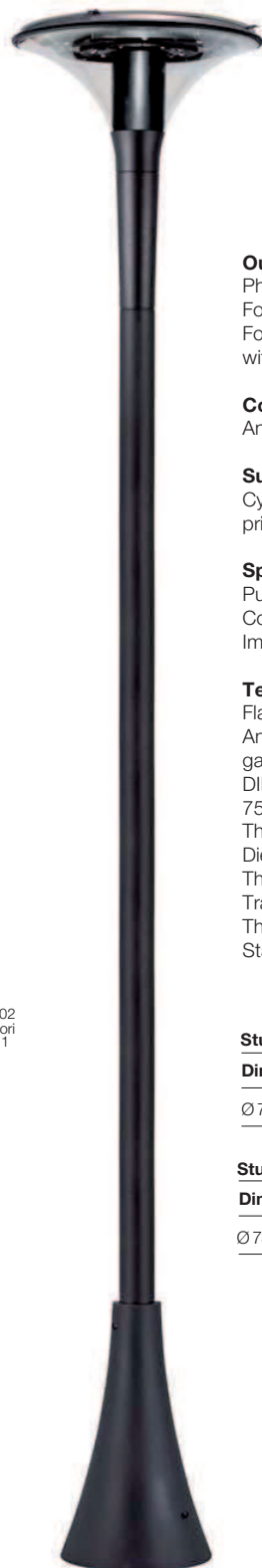
Dimensions	Power	Code	
Ø 735 x 800 mm	16 x 1,2 W	1879.1857	1



# Stud Led Photovoltaic

Urban architectural lighting Led

Designer: P. Montalti



## Outdoor light fitting

Photovoltaic LED fitting complete with pole  
For ground fixing, total height 4300 mm  
For plinth/floor fixing, total height 3800 mm complete with flange and anchor bolts

## Colour

Anthracite

## Suitable for

Cycle paths, pedestrian areas, parking areas, public and private gardens, squares.

## Special features

Pull-out wiring compartment closing door for easy maintenance  
Conforms to local and international dark sky laws  
Impact resistant thermoplastic flange covering carter (flanged version)

## Technical details

Flange 250x250mm thickness 10mm made of hot dipped galvanized steel  
Anchor bolts Ø18x450mm complete with nut made of hot dipped galvanized steel  
DIN norm Pole Ø102mm made of hot dipped galvanized steel 75µm (UNI 5745/75)  
Thermoplastic flange covering carter (flanged version only)  
Die cast aluminium body  
Thermoplastic wiring compartment closing door  
Transparent acrylic diffuser  
Thermoplastic cover  
Stainless steel screws

### Stud Led Photovoltaic System A - Buried pole

Dimension	Power	Code	
Ø 735 x 4300	Led 16 x 1,2W	1880.1857	1

### Stud Led Photovoltaic System B - Flanged pole with protective covering carter

Dimension	Power	Code	
Ø 735 x 4300	Led 16 x 1,2W	1881.1857	1



## Stud Led Photovoltaic

photovoltaic panel

Urban architectural lighting Led



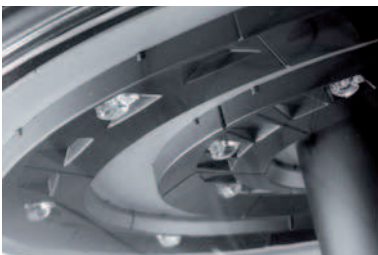
- Photovoltaic panel integrated into cover 43W of power
- Monocrystalline silicon
- Highly transmittant tempered glass 4mm thickness
- Hail resistant: Ø25 mm at 75 km/h

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



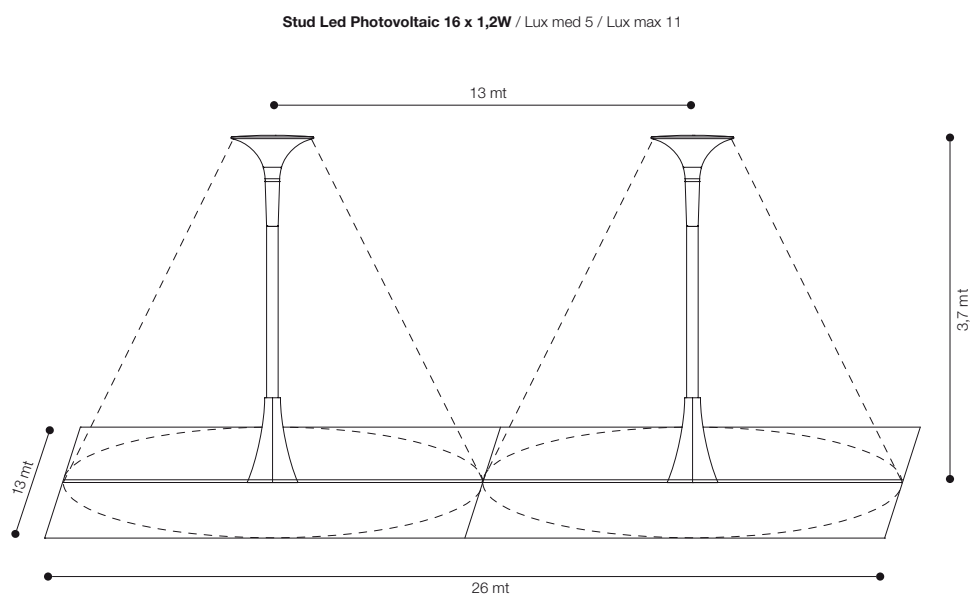
- Cree LEDs 16x1.2W 100 lm cool white 6000°K guaranteed 50.000 hours
- Highly transmittant acrylic transparent lenses developed by Mareco Luce with 55° light beam
- Innovative optics for a round symmetrical distribution of light on the ground
- Highly transmittant acrylic material
- 16 x 1 LED circuit 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

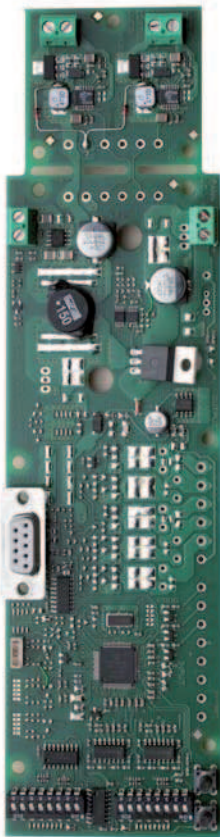
- Zero installation costs
- Zero maintenance costs
- No CO2 emissions
- Possibility of installation in the absence of an electric network
- Easy installation on pole ( Stud LED Photovoltaic pole top )
- Compact dimensions of battery 162 x 90mm placed in the wiring compartment

### 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**

