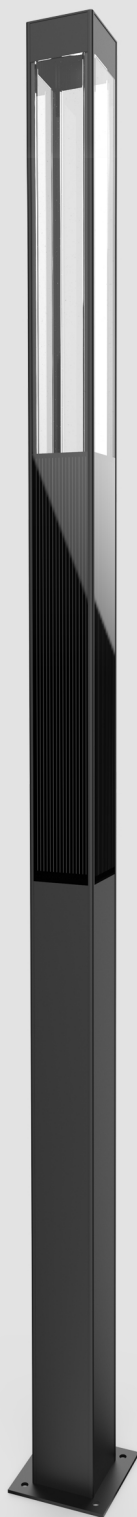


*brilliance in solar lighting*

photinus

# Datasheet

luna



luna

## SELF-SUFFICIENT SOLAR LED STREET LAMP

### USE

The luna is a self-sufficient, solar-powered designer LED light. Its timeless design means that the luna is suitable for lighting modern urban areas, parks and waterside promenades as well as listed, protected areas.

The luna is suitable for use in areas where there is no electricity supply, where it is not feasible to install an electricity supply and where an extremely secure supply even in poor light conditions is required. Due to the cubic aluminium construction with 4 photonus High Performance photovoltaic modules, sufficient energy can be generated in a targeted manner via the diffuse light component especially in regions with poor weather (snow, fog, etc.). The vertically arranged modules prevent snow from accumulating on it in winter. A sophisticated energy management system guarantees secure functionality over several nights even in poor weather conditions.

### FUNCTION

The integrated battery is charged during daytime by the efficient photovoltaic solar module. At nightfall, the LED light module is automatically activated.

The light output of a solar lamp is defined by the incident solar irradiation at the respective location, which is why the quality of the individual components and their optimum interaction play a decisive role.

The LiFePo4 battery used in protos is shored in the ground together with the post so that an optimum, constant temperature is achieved. The long service life of the battery and efficient theft protection are the results.

### GUARANTEE

5 years

The warranty of the solar illumination is provided, as far as the illumination is installed like described in the installation instructions. The warranty is void, if the product settings haven't been changed by photonus authorized employees/partners and/or using non-photonus approved tools.

SOLAR LIGHT	luna
SOLAR MODULES	
Solar modules	monocrystalline silicon cells with exceptional efficiency specially processed by photinus.
Efficiency	~22 %
Max. performance of the energy column Pmpp	150 Wp / 4 solar modules, modules are also charged up in cloudy conditions.
BATTERY IN THE LIGHT POLE	
Battery	LiFeP04 / 461 Wh (12,8 V 36Ah)
Operating temperature	-20°C to +60°C
Battery life	up to 10 years
Schutzart	IPX8
LIGHTS	
Max. luminous flux	Depending on the location where the light is staying (8000 lm). <u>Location: Luminous flux / autonomy time / normal mode / smart mode</u> 52. degrees lat. (Amsterdam): 4,5 W, 1000 lm / V5 / 8 days / 12 days 47. degrees lat. (Munich): 6,3 W, 1260 lm / V5 / 6 days / 9 days 40. degrees lat. (Madrid): 15 W, 3000 lm / V5 / 3 days / 5 days
Efficiency	200lm/W at 600mAh
LED module / max. watts	50 W
Colour temperature	4000K (By request changeable: Amber Light, 2000K, 3000K, 5000K)
Life of LED	>75 000 h (L80)
Protection class	IP 65
MATERIALS	
Pole	galvanised and powder-coated steel „Sparkling iron effect dark“
Metal parts	powder-coated aluminium „Sparkling iron effect dark“

Technical changes reserved!

DIMENSIONS	
Total height from ground level	4010 mm
Height of light from ground level	3905 mm
Total length of pole	3005 mm
Weight pole	28 kg
Length of pole in the ground assembled	1000 mm
Pole materials	galvanised and powder-coated steel „Sparkling iron effect dark“
Solartower with light housing	4010 mm x 195 mm x 195 mm
Weight tower with housing	18 kg
Wind load	Wind load zone 4, with 30m/s (110km/h) (Lloyds CLAME 2016)

## Salt spray test (ISO 9227:2012)

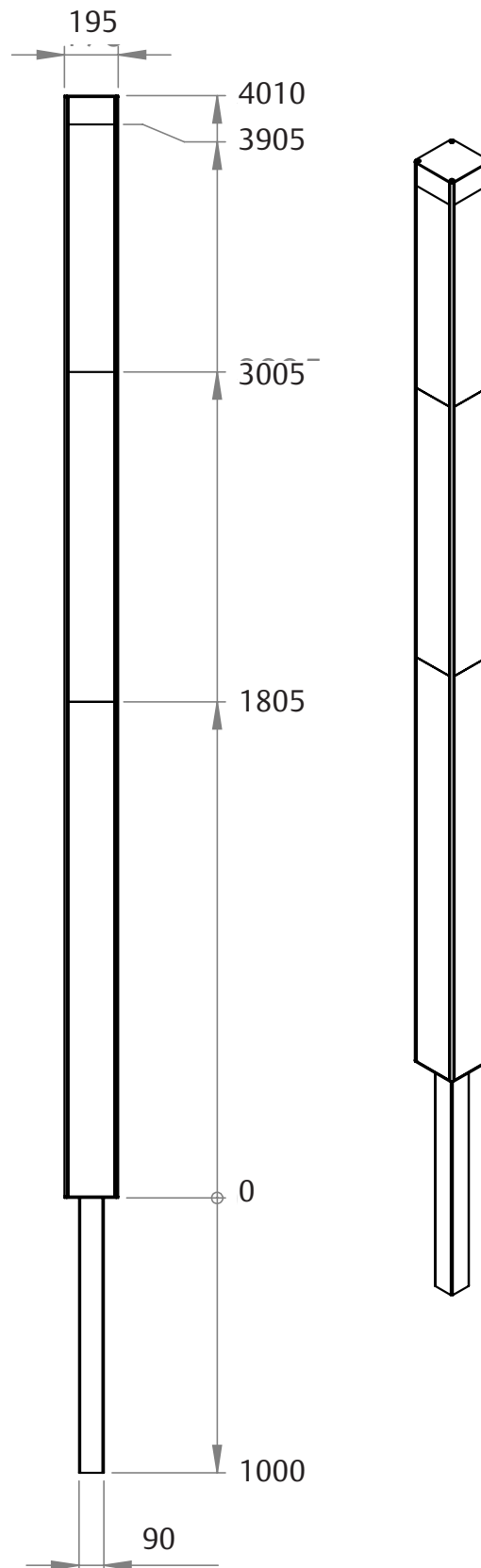
### Corrosion test in artificial atmosphere - salt spray test (ISO 9227:2012)

All solar lights have successfully passed the salt spray test.

## Details

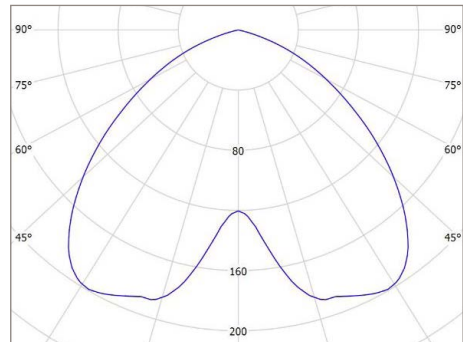
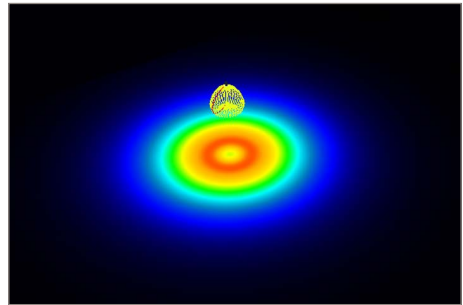


## Dimensions



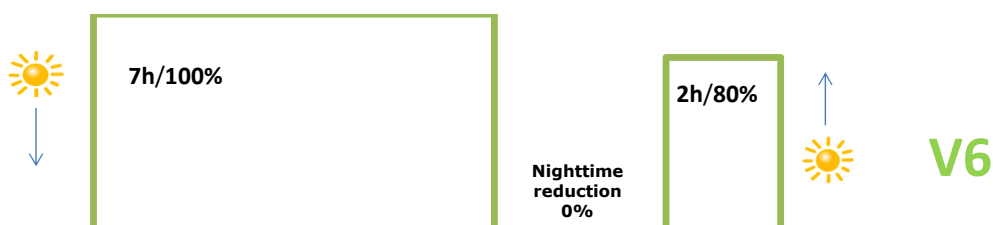
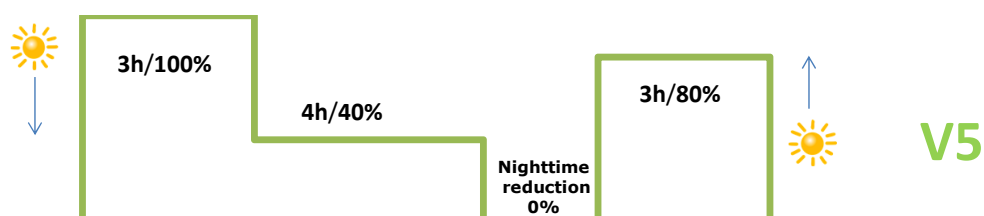
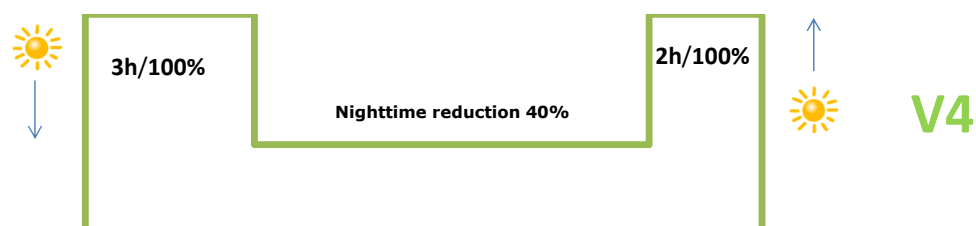
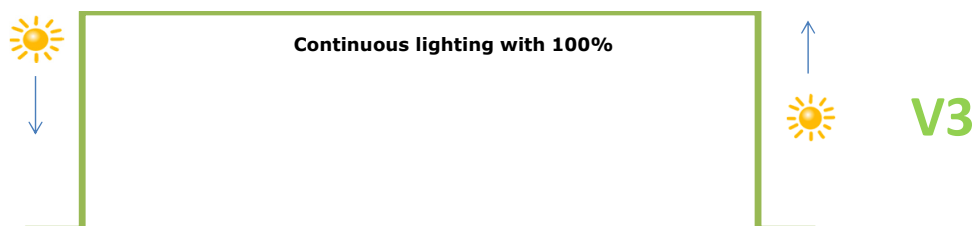
## OPTIC „place“

Especially for places and parks.



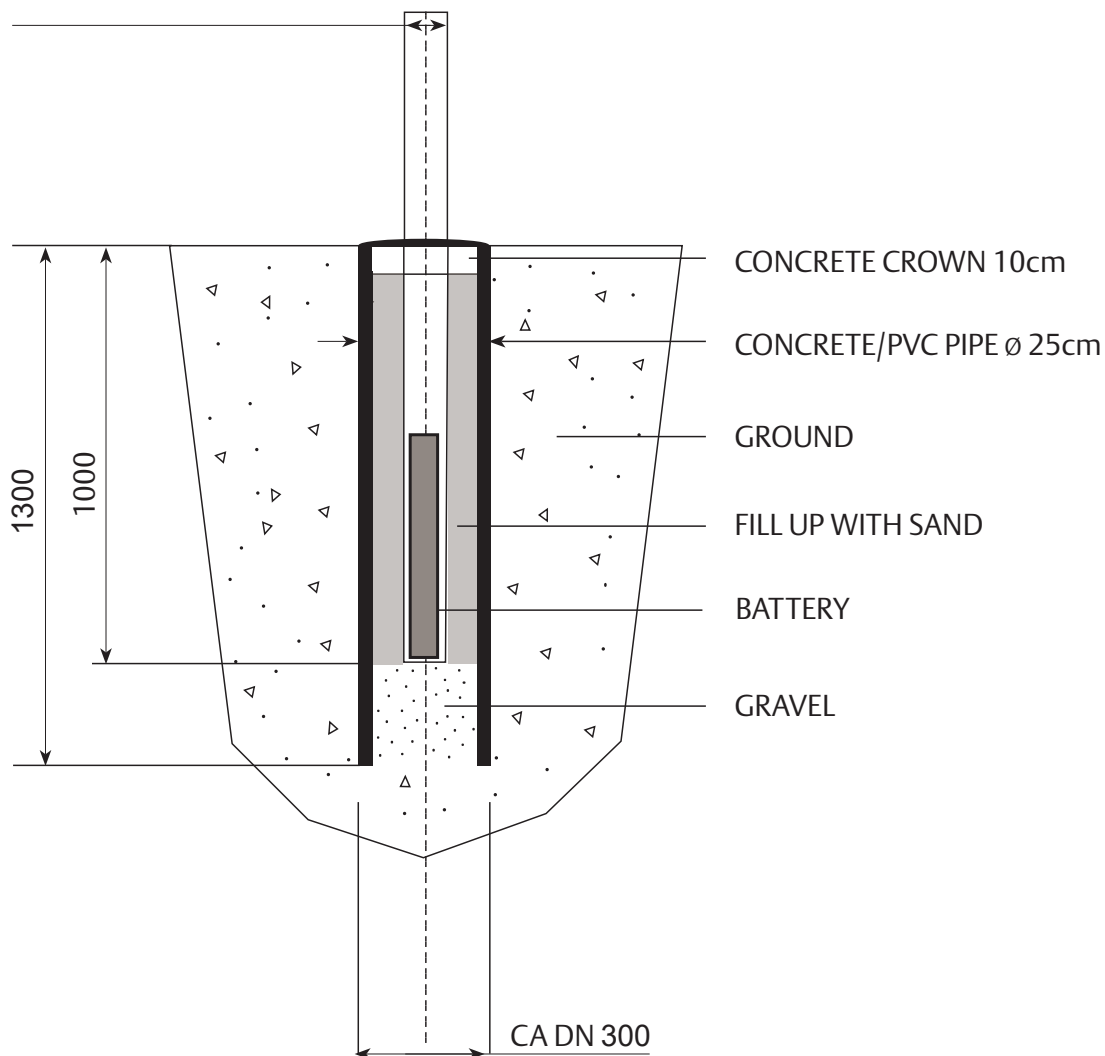
## ENERGY AND TIMEMANAGEMENT

Standard factory setting V5



## PIPE FOUNDATION

POLE DIAMETER 90

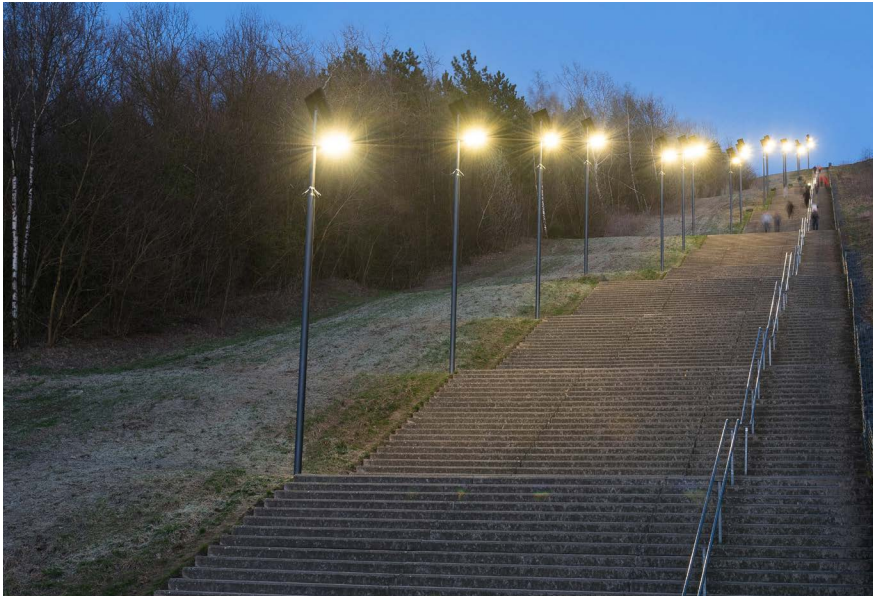


## References

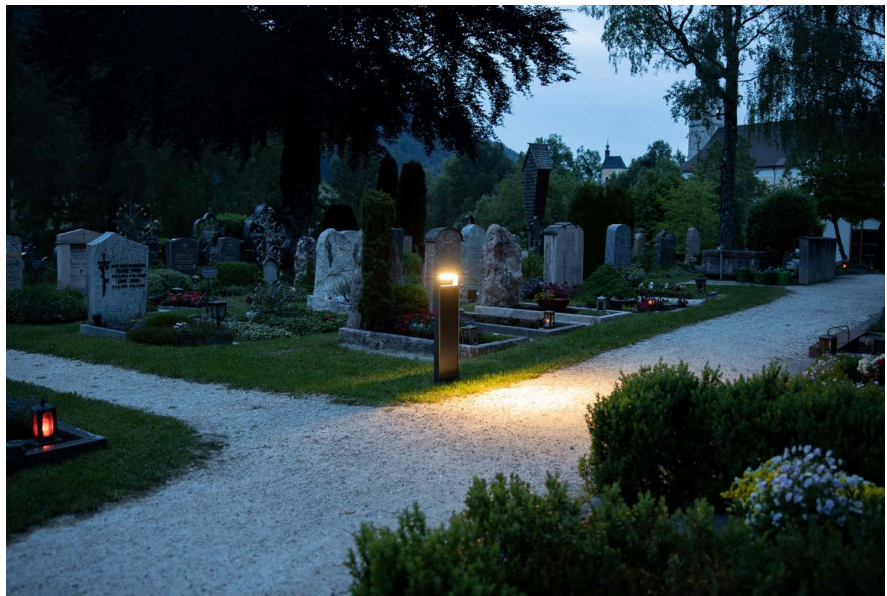
**merkur**  
Neuschwanstein / DE



**protos**  
stairs Wilhelminenberg / NL



**juno**  
graveyard / DE





**hera**  
monument / PL

**aron**  
Larnaka / CYP



**alara**  
Diyar Park / BHR