

brilliance in solar lighting

photinus

Datasheet

alara



alara place



alara way

SELF-SUFFICIENT SOLAR LED STREET LAMP

USE

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

The alara 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 photinus 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. The alara is best suited for side streets with little traffic, cycle routes and footpaths as well as car parks etc.

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 photinus authorized employees/partners and/or using non-photinus approved tools.

SOLAR LIGHT		alara place / alara way
SOLAR MODULES		
Solar modules	monocrystalline silicon cells with exceptional efficiency specially processed by photinus.	
Efficiency	20%	
Max. performance of the energy column Pmpp	150 Wp / 4 solar modules, modules are also charged up in cloudy conditions.	
Protection class	IK06	
BATTERY IN THE LIGHT POLE		
Battery	LiFeP04 / 474 Wh (12,8 V 37Ah)	
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). Location: Luminous flux / autonomy time / normal mode / smart mode 52. degrees lat. (Amsterdam): 5 W, 1000 lm / V5 / 8 days / 12 days 47. degrees lat. (Munich): 9 W, 1400 lm / V5 / 6 days / 9 days 40. degrees lat. (Madrid): 22 W, 3790 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	4440 mm
Height of light from ground level	3200 mm
Total length of pole	4000 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	1500 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)

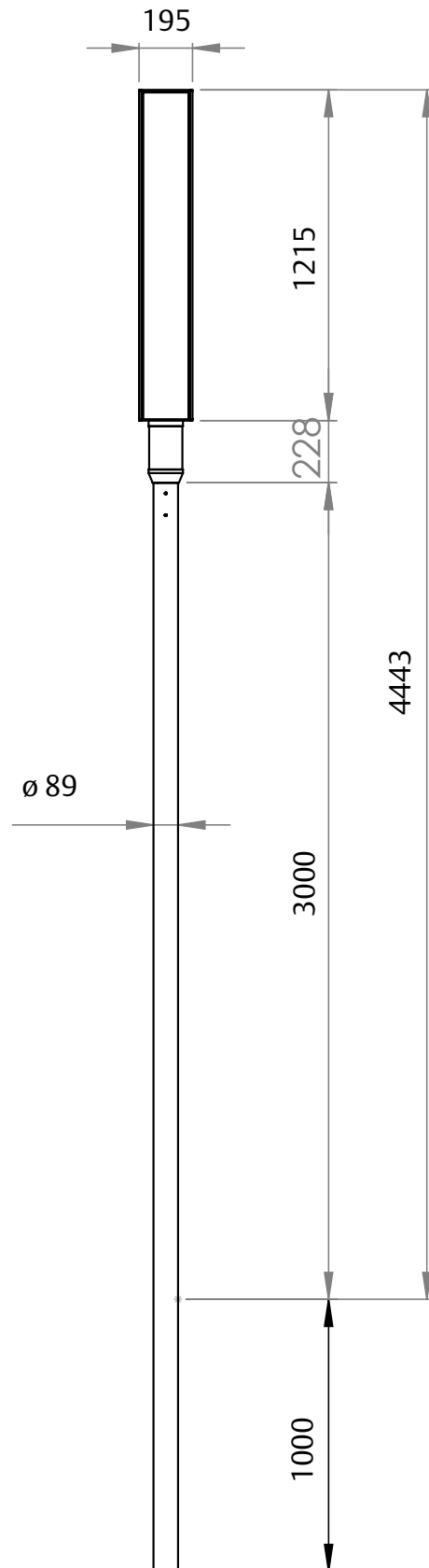
Corrosion test in artificial atmosphere - salt spray test (ISO 9227:2012)

All solar lights have successfully passed the salt spray test.

Details

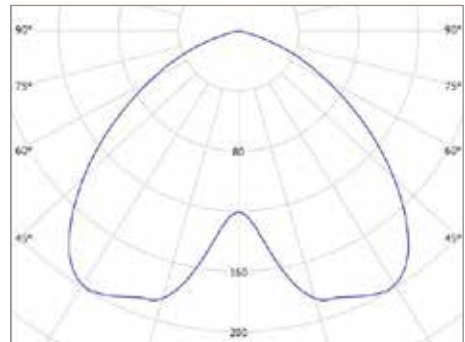
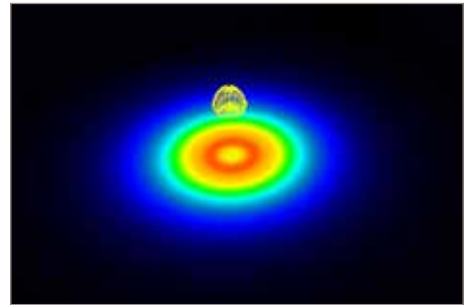


Dimensions



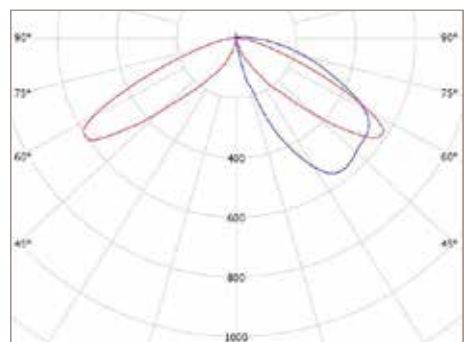
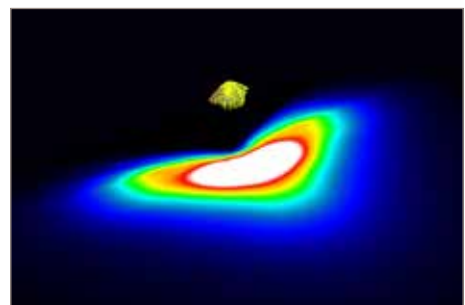
OPTIC „place“

Especially for places and parks.



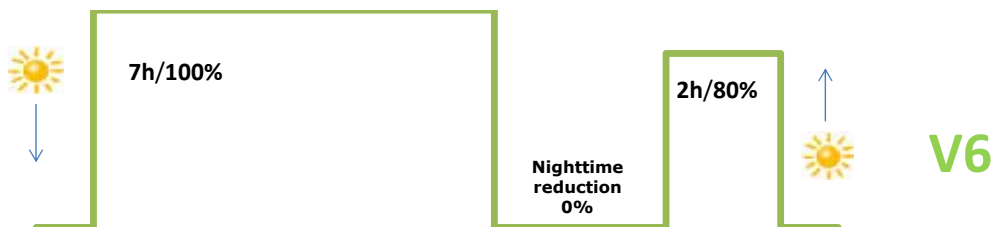
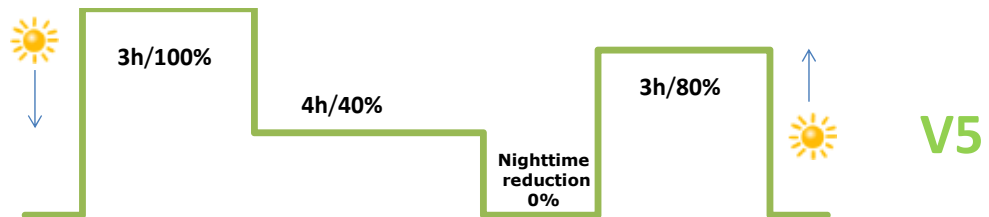
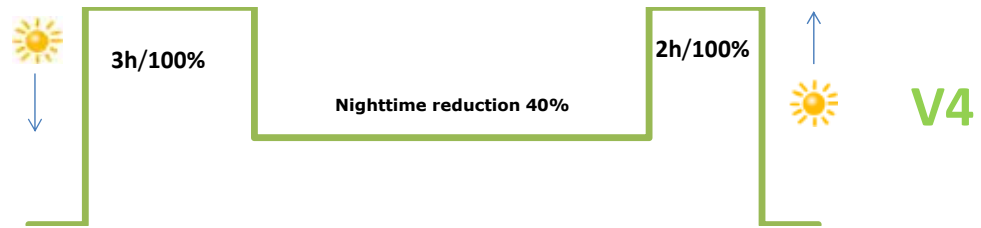
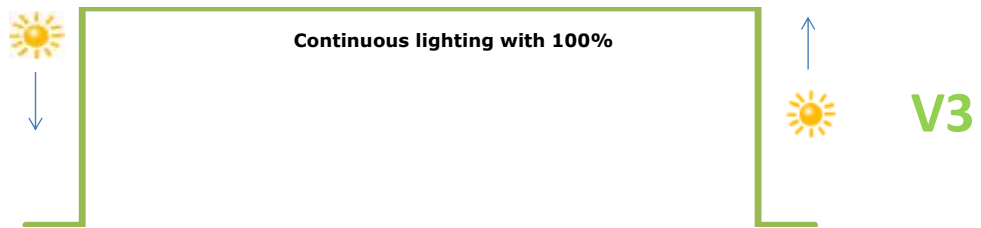
OPTIC „way“

Especially for pathways and side streets.



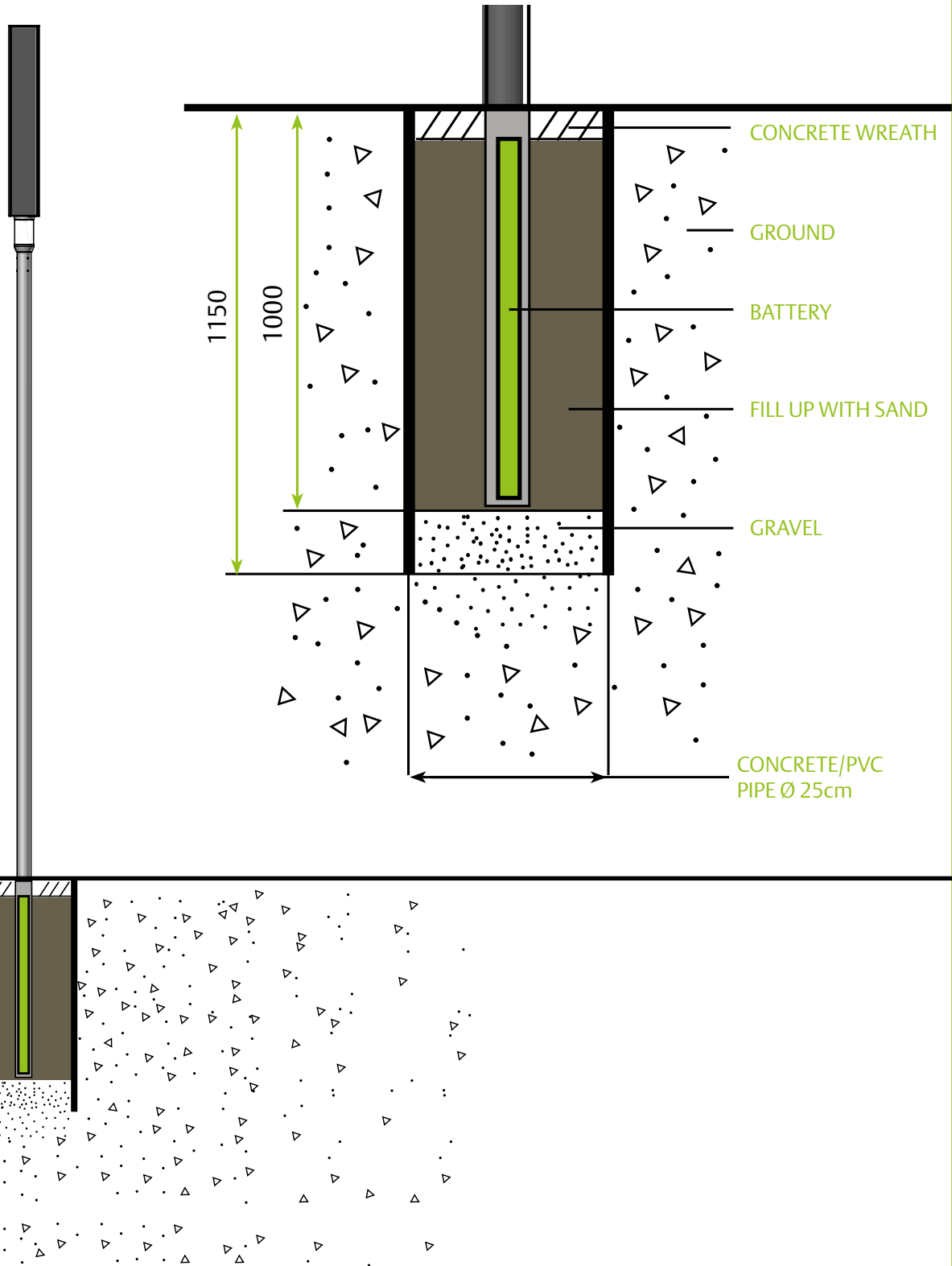
ENERGY AND TIME MANAGEMENT

Standard factory setting V5





OPTION 1 - PIPE FOUNDATION

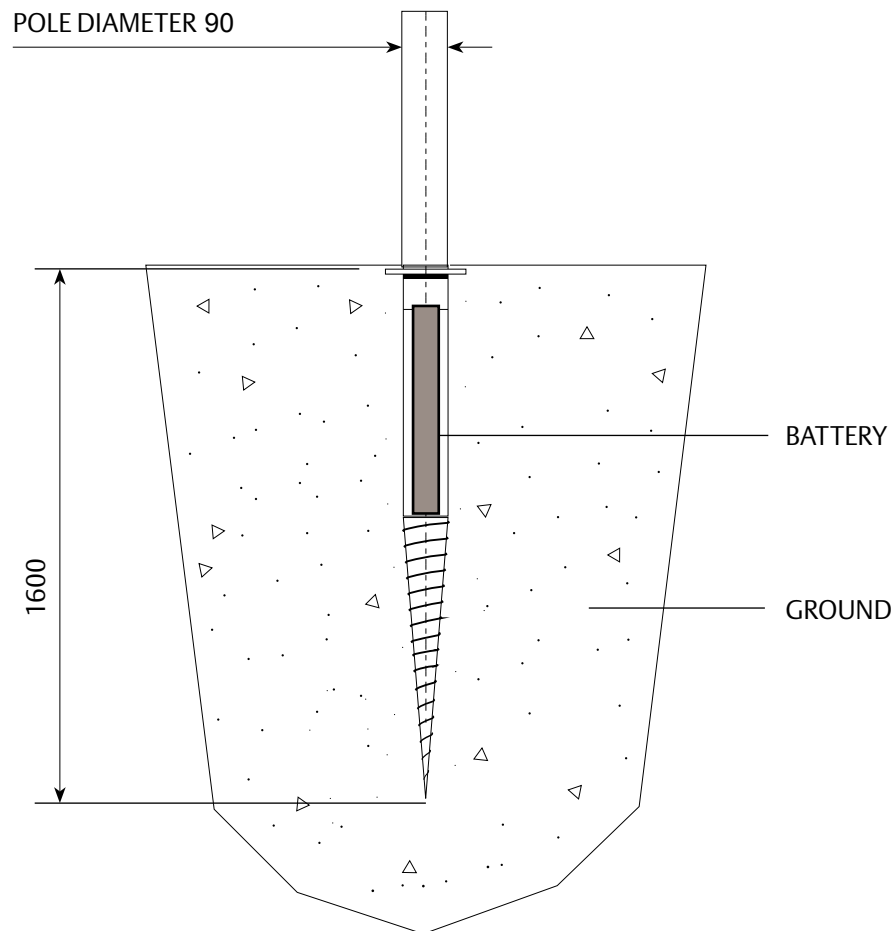


OPTION 2 - GROUND SCREW

KRINNER Ground Screw

Art. 26160: KSF E140x1600-E76-100

Art. 26813: Eccentric disk set - E90



References

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Diyar Park / BHR



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Footpath

