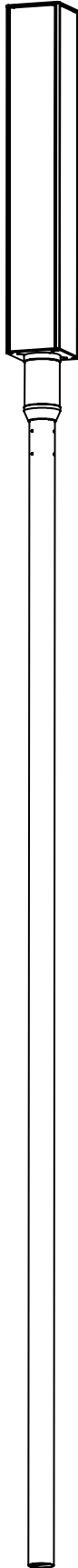


brilliance in solar lighting

photinus



DATASHEET V1 | 2019

alara

1

alara

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.

2

TECHNICAL DATA

SOLARTOWER

Solar modules	monocrystalline silicon cells with exceptional efficiency specially processed by photinus
Efficiency	20 %
Max. performance of the energy column Pmpp	140Wp / 4 solar modules - modules are also charged up in cloudy conditions.

BATTERY IN THE LIGHT POLE

Battery	LiFePO ₄ / 461 Wh (12V 36Ah)
Operating temperature	- 20°C to + 60°C
Battery life	up to 10 years
Protection class	IPX8

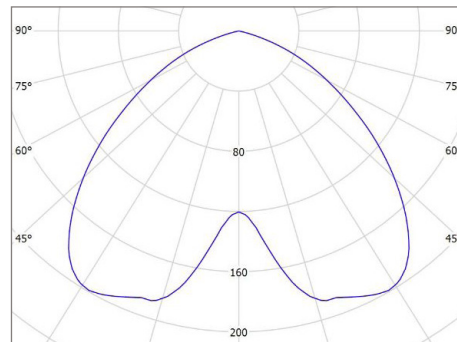
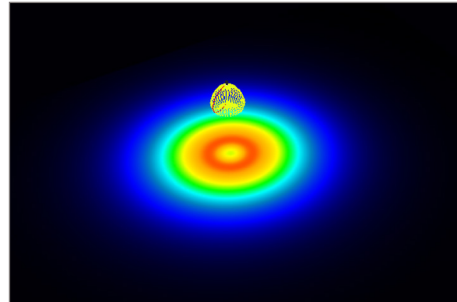
LIGHTS

Max. luminous flux	8000lm (Bregenz site, 47 degrees latitude: 1400lm/V5)
Efficiency	200 lm/W
LED module / max. watts	50W
Max. back-up time	Location: Normal Mode /Smart Mode 52 degrees latitude (Amsterdam): 9 days / 13 days 47 degrees latitude (Munich): 7 days / 10 days 40 degrees latitude (Madrid): 3 days / 5 days
Colour temperature	4000 K
Life of LED	> 75 000 h (L80)
Protection class	IP65

OPTICS SELECTION

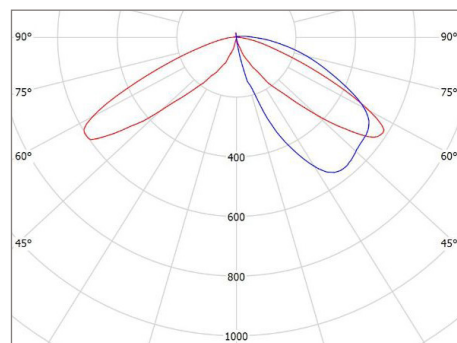
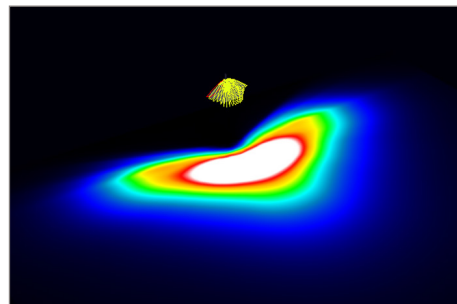
OPTIC „PLACE“

especially for places and parks



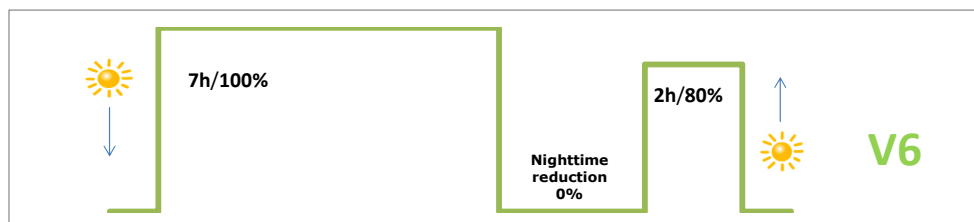
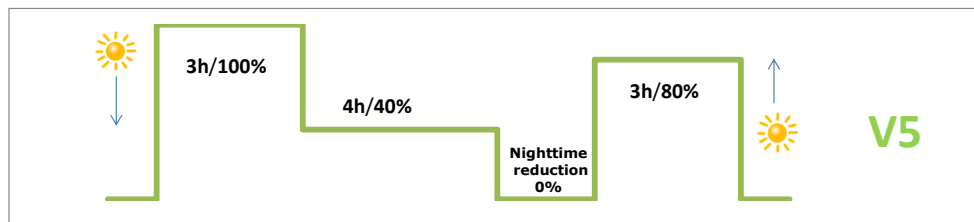
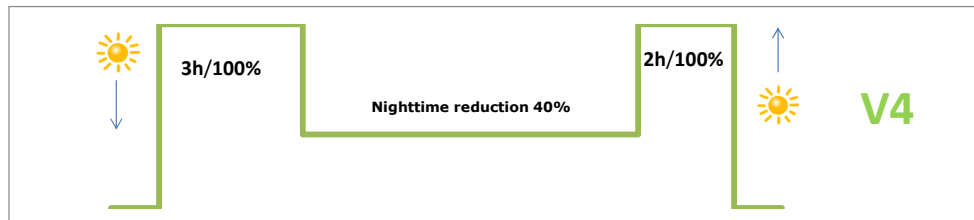
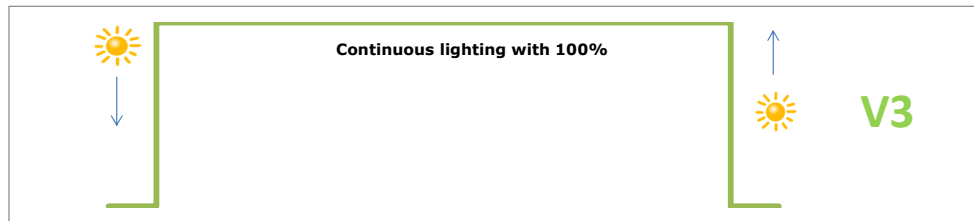
OPTIC „WAY“

especially for pathways and side streets



ENERGY AND TIME MANAGEMENT

Standard factory setting V5



DIMENSIONS

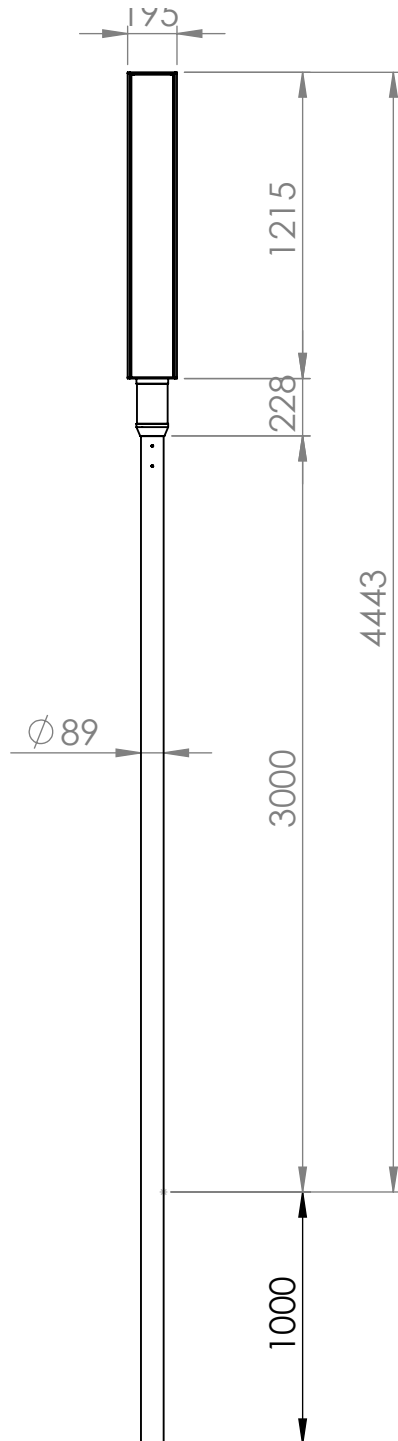
Total height from ground level	4440 mm
Height of light from ground level	3200 mm
Total length of pole Weight	4000 mm 28 kg
Length of pole in the ground assembled	1000 mm
Pole materials	galvanised and powder-coated steel „Sparkling iron effect dark“
Solartower with light housing Weight	1450 mm x 195 mm x 195 mm 18 kg
Wind load	Wind load zone 4, with 30m/s (110km/h) (Lloyds CLAME 2016)

MATERIALS

Pole	galvanised and powder-coated steel „Sparkling iron effect dark“
Metal parts	powder-coated aluminium „Sparkling iron effect dark“

(technical changes reserved)

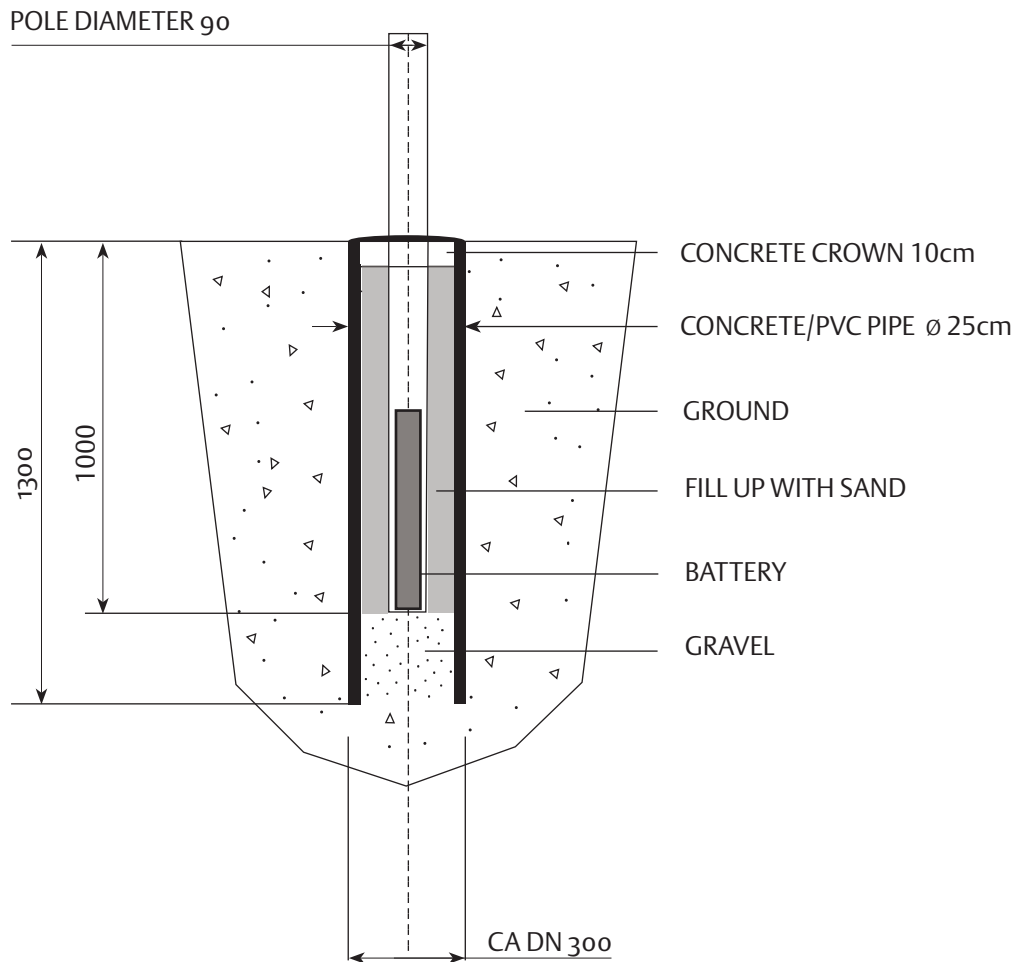
DIMENSIONS



3

OPTIONS FOR ASSEMBLY

OPTION 1 - PIPE FOUNDATION



OPTION 2 - GROUND SCREW

KRINNER GROUND SCREW

Art. 26160: KSF E140x1600-E76-100

Art. 26813: Eccentric disk set - Ego

