

Datasheet

verticalis150 / verticalis150 Duo



SELF-SUFFICIENT SOLAR LED STREET LAMP

APPLICATION

The verticalis150 stands out for its exceptional, cubic and modern design and guarantees a secure supply in all different climate zones. The verticalis150 solar light is a solar powered LED street lamp, which is used in regions without electrical infrastructure or in which it would not be economically feasible to implement one. The luminaire is especially used in areas that demand a secure supply and excellent light quality even in dim conditions.

The verticalis150 is able to generate sufficient energy via the diffuse light component in regions with poor weather (snow, fog, etc.) due to the cubic aluminium construction with 4 photinus high performance photovoltaic modules. 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 verticalis150 is best suited for residential streets, side streets, cycle routes and footpaths as well as car parks etc. in accordance with DIN EN13201 due to its light output.

OPERATION

The integrated battery is charged via 4 photinus high performance photovoltaic modules and powers efficiently the LED array during the night.

OPTIONS

Anthracite is our standard colour for the verticalis150. Nevertheless, the luminaire can be ordered in all RAL colours for large projects and at an additional charge.

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.

Technical data

SOLAR LIGHT	verticalis 150 / verticalis 150 Duo
SOLAR MODULES	
Solar modules	Monocrystalline silicon cells with exeptional efficiency specially processed by photinus.
Efficiency	22,6%
Max. performance of the energy column Pmpp	160Wp / 4 solar modules, they are also charged up in cloudy conditions.
Protection class	IK06
BATTERY IN THE POLE	
Battery	LiFePO4 / 474 Wh (12,8V 37Ah) Optional: LiFePO4 1152Wh (12,8V 90Ah)
Operating temperature	-20°C to +60°C
Life of battery	>10 years
Protection class	IPX8
LIGHTS	
Max. luminous flux	Depending on the time program and the location of the light.
Max. Efficiency	up to 200lm/W
LED module / max. watts	100 W
Colour temperature	3000K (By request changeable: Amber Light, 2200K, 2700K, 4000K, 5000K)
Life of LED	>100 000 h (L80)
Protection class	IP 67
MATERIALS	
Pole	galvanised steel
Metal parts	powder-coated aluminium „Sparkling iron effect dark“

Technical changes reserved!

DIMENSIONS	
Total height from ground level	4900 mm
Height of light from ground level	4800 mm
Height of vandalism protection	3300 mm
Height of energy column	1500 mm
Total length of pole	5800 mm
Length of pole under ground	1000 mm
Total weight of solar light	110 kg
Wind load	windload 2 to 27 m/sec Terrain category 2

Salt spray test (ISO 9227:2012)

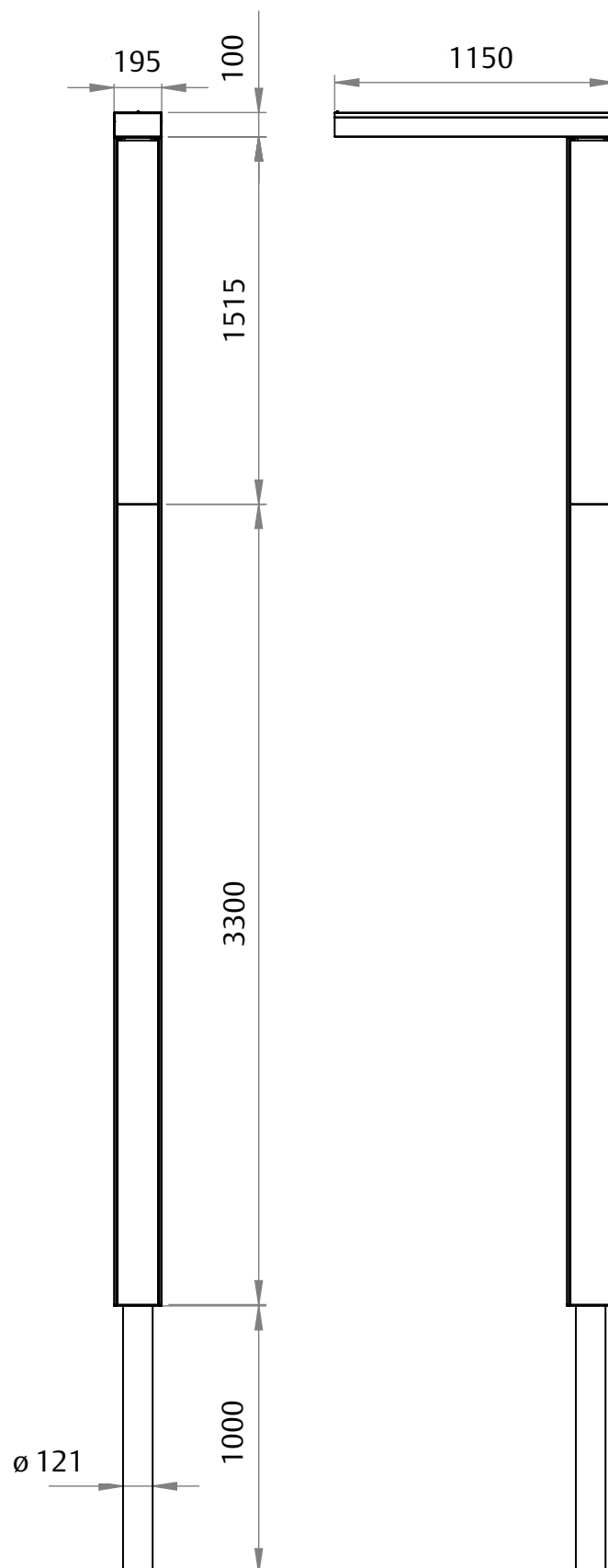
Corrosion test in artificial atmosphere - salt spray test (ISO 9227:2012)

All solar lights have successfully passed the salt spray test.

Details

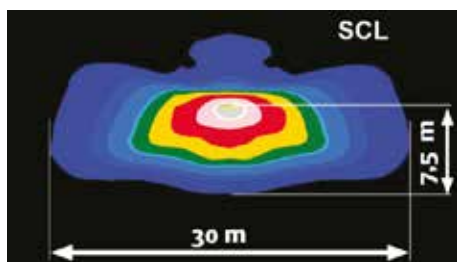
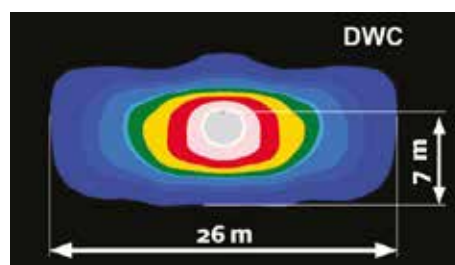
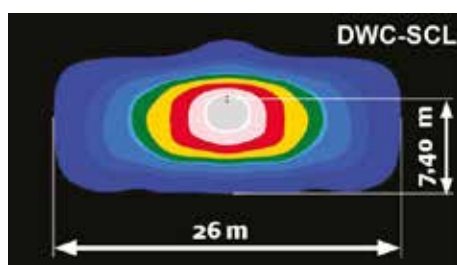
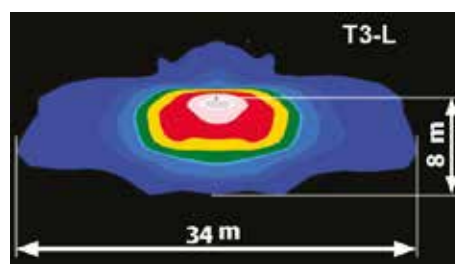
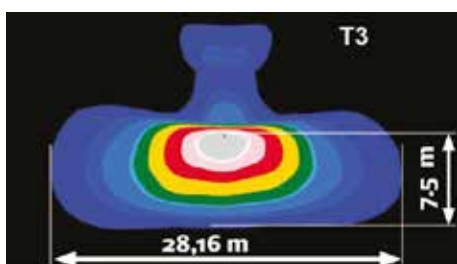
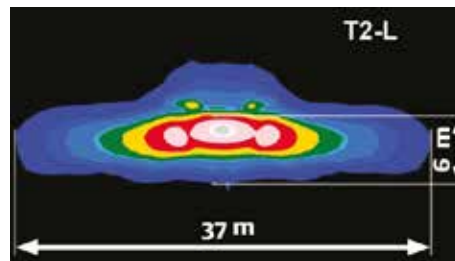
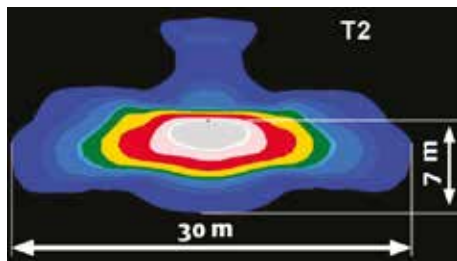


Dimensions



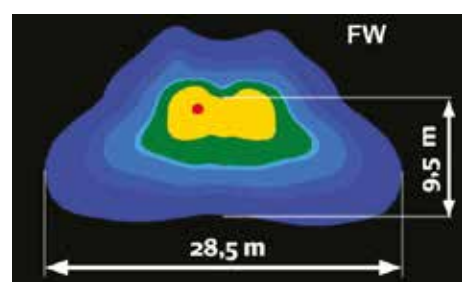
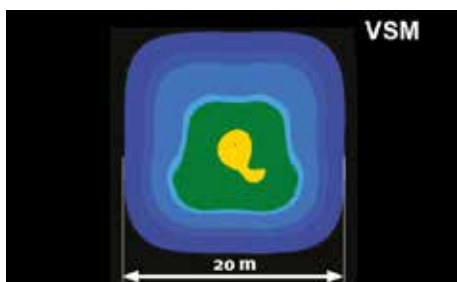
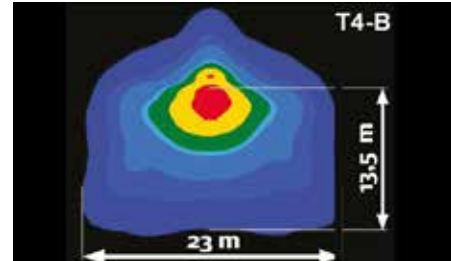
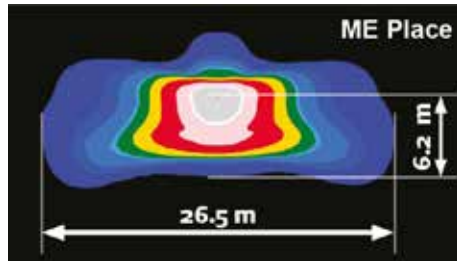
Optics

Path and street optics

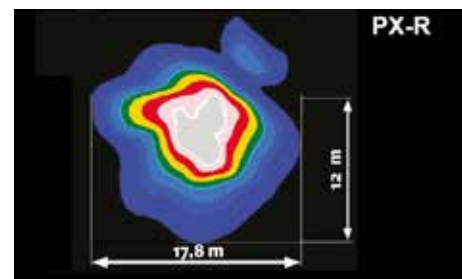
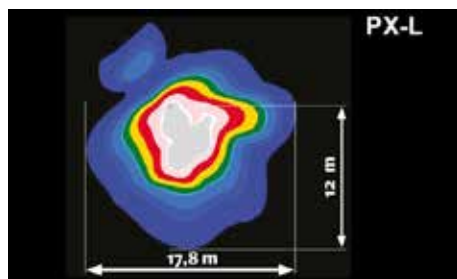


Optics

Place optics



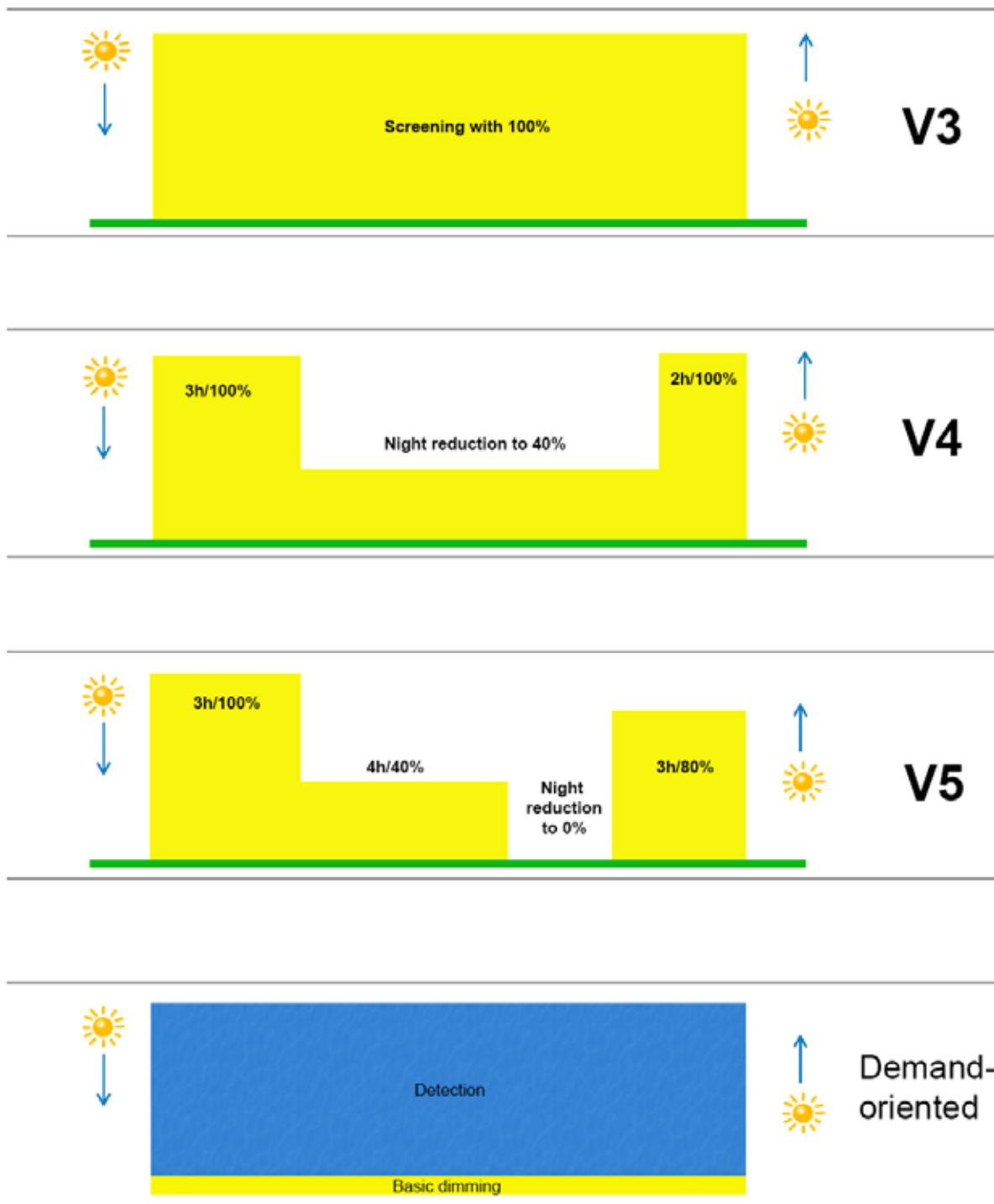
Special optics crosswalk



ENERGY AND TIME MANAGEMENT

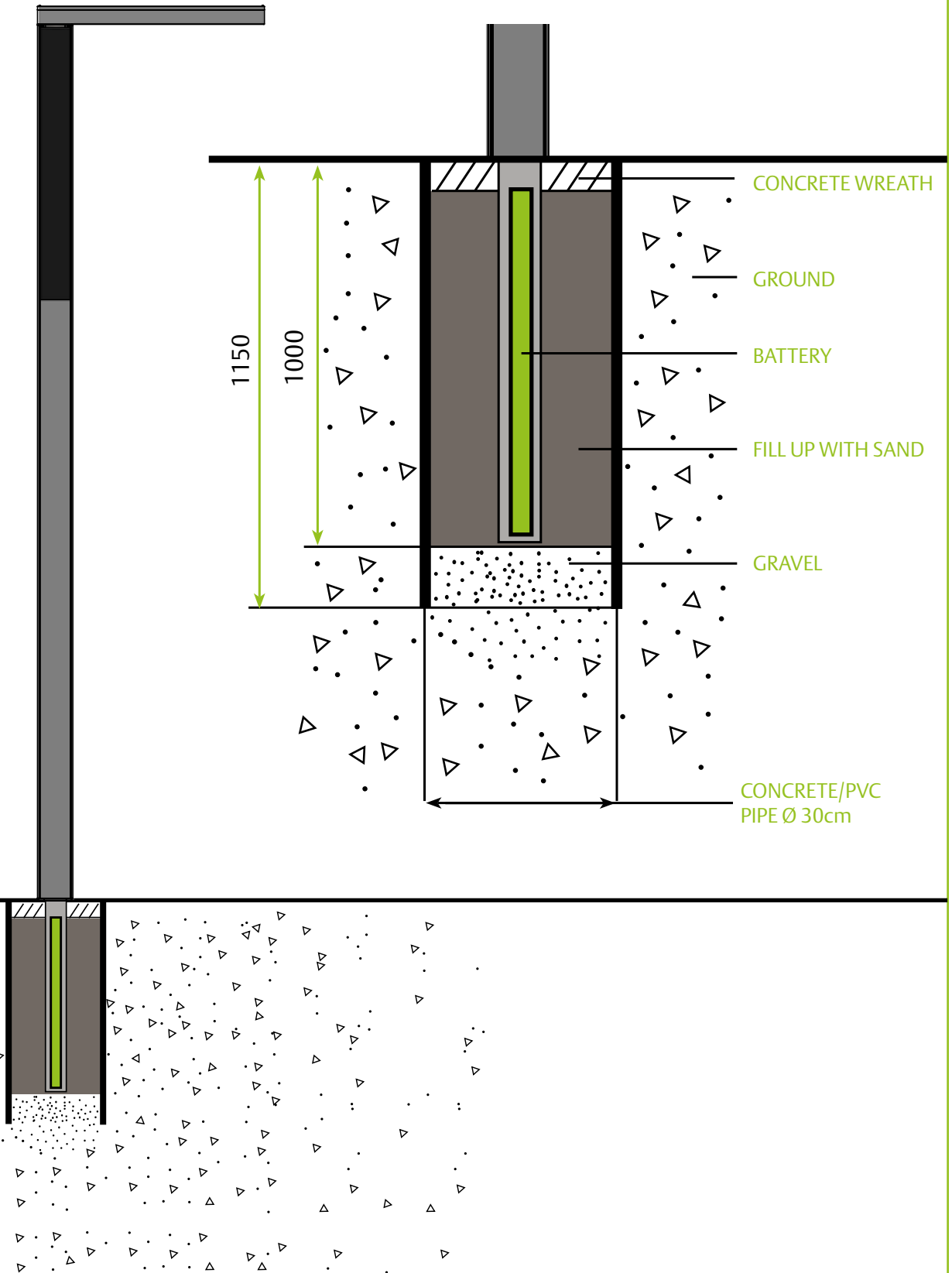
Standard factory setting V5

TIME MANAGEMENT PHOTINUS SOLAR LIGHTS



Option for assembly

PIPE FOUNDATION



References

verticalis
 Sidewalk Hausham / DE



verticalis
 Holmenkollen / NOR

verticalis
 Neighborhood Adliya / BHR



References



verticalis
 Cycle- walkway / PL

verticalis
 Neuschwanstein / DE



verticalis
 Eching / DE