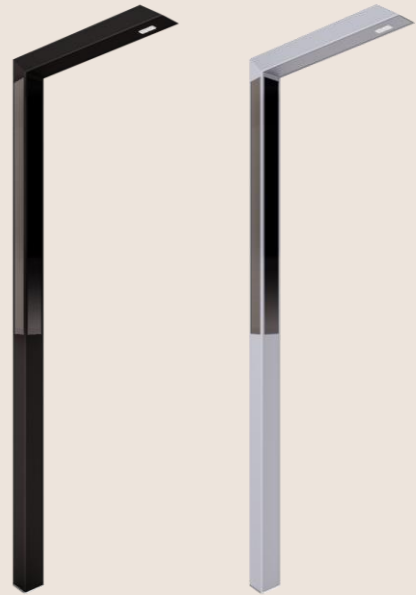


LED Solar Lighting LEDIVA

Light that is accessible at any time and any place – independent of power supply, taking environmental concerns into consideration. This is Solar Lighting, LEDON's new technology for self-sufficient, solar outdoor lighting.



| ITEM DESCRIPTION | ARTICLE CODE | LENS | FINISH |
|---------------------------|--------------|---------|----------------------|
| LED SL 1H1M SB/740 BLACK | 39003001 | Street | Deep black (RAL9005) |
| LED SL 1H1M PB/740 BLACK | 39003011 | Parking | Deep black (RAL9005) |
| LED SL 1H1M SB/740 SILVER | 39103001 | Street | Silver (RAL9006) |
| LED SL 1H1M PB/740 SILVER | 39103011 | Parking | Silver (RAL9006) |

Generate your customized datasheet with location-specific and application-oriented luminaire data using the Solar Lighting Calculator.
<https://kalkulator.ledon-solarlighting.com>

GENERAL CHARACTERISTICS

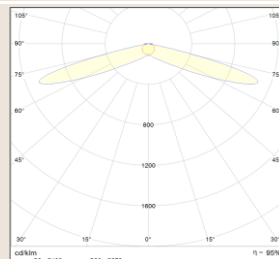
| | |
|--------------------------|---|
| Material Pole | Aluminum powder-coated, fine structure matt |
| Material Foundation Tube | Steel hot-galvanized |
| Ambient Temperature * | -20 °C - +50 °C |
| Wind Load Zone | Zone 4: up to 30m/s |
| Terrain Category ** | Terrain category I up to 800m above sea level |
| Protection Class | 3 |
| Installation | 5 components; assembling with 7 screws; The pole is electrically conductive connected to the ground tube and therefore does not need to be grounded additionally. |
| Guarantee | 10 years |

* the battery must be positioned below the frost line

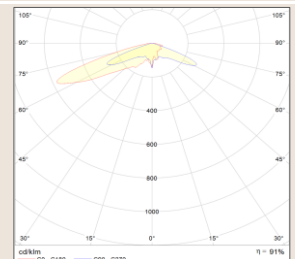
** if location >800 m, the wind speed must be increased by factor $f = (0,2 + H_s / 1000)$; increased wind load requires a static proof

LIGHT CHARACTERISTICS

| | |
|---|---|
| Rated Luminous Flux | The maximum possible luminous flux depends on the location of the luminaire, the available solar radiation and the customized lighting profile. Under optimal conditions it is max. 880 lm with one LED-module. |
| | Calculate here your location-specific and application-oriented luminaire data. |
| Luminous Efficacy | 120 lm/W |
| Color | Neutral white |
| Color Temperature | 4000 K |
| Color Rendering Index | 70 |
| Rated Lifetime *** | 50 000 h |
| Lumen Maintenance Factor (at end of lifetime) | L90 |
| Beam Angle | Application-specific |



street



parking

*** values apply to an ambient temperature of 25 °C.

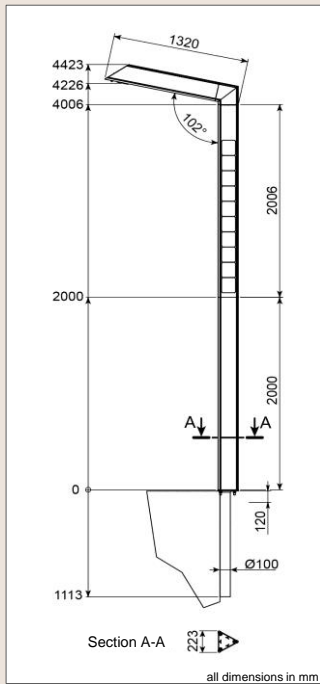
| PHOTOVOLTAICS | |
|------------------------------|--|
| PV Technology | Monocrystalline silicium cells |
| PV Module | Glass-foil module |
| Power of Energy Tower (Pmpp) | 150 Wp |
| Voltage at max. Power (Vmpp) | 4.9 V |
| Glass Specification | 4 mm ESG solar glass |
| Hail Tests | Grainsize 25 mm, max. velocity of 46 m/s (165.6 km/h) and Grainsize 55 mm, max. velocity of 33.5 m/s (120.6 km/h) |

| ENERGY STORAGE | |
|---------------------------|--|
| Battery Type | Lithium iron phosphate battery (LiFePO ₄) |
| Battery Position | Installed in ground tube in the ground soil |
| Energy Storage | 410 Wh |
| Nominal Voltage | 3.2 V |
| Capacity | 128 Ah |
| Rated Lifetime of Battery | 2000 cycles at 100% DOD of 80% of the initial capacity |
| IP Rating | IPX8 |

| CONTROLLER | |
|----------------------|--|
| Time Management | Customized via the Solar Lighting Configurator |
| Day/Night Detection | Through solar modules |
| Protective Functions | Deep discharge protection, overvoltage protection, undervoltage protection |
| IP Rating | IPX8 |

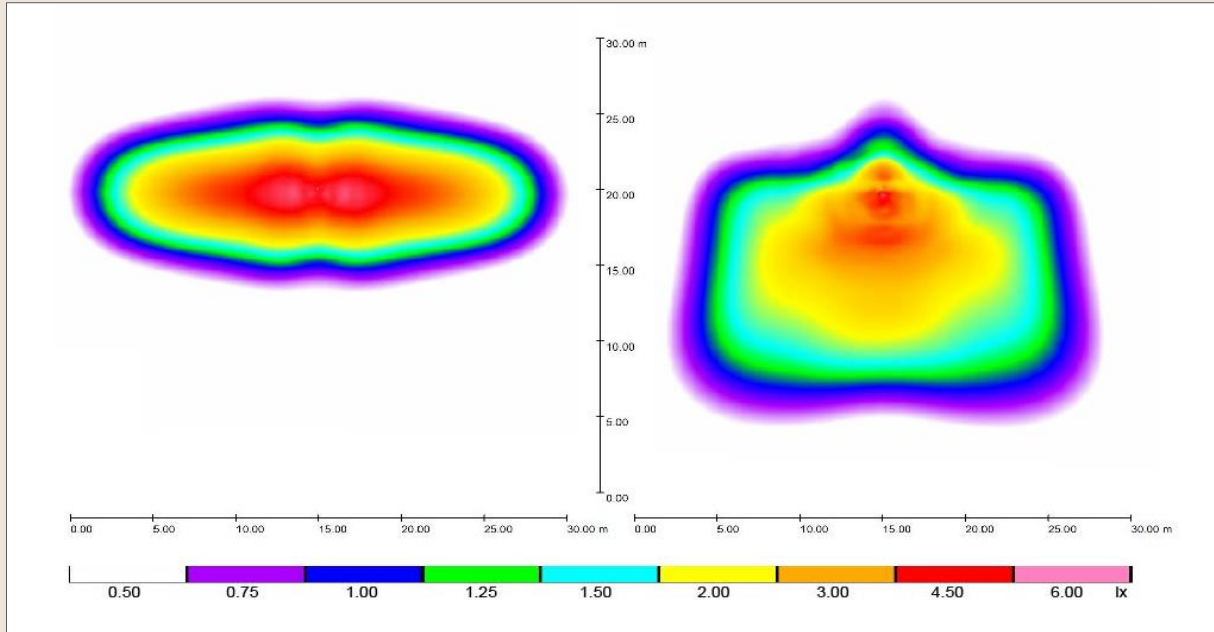
| DIMENSIONS | |
|------------------------|--|
| Total Height | 4.50 m |
| Mounting Height | 4.30 m |
| Geometry | Equilateral triangle, side length 223 mm |
| Dimensions Ground Tube | ø0.1 m x 1.2 m |
| Total Weight | 120 kg |

GRAPHICS



street, 880lm

parking, 880lm



Data subject to change
Last updated on: 07.03.2018