



LED BEKA SOLAR

BEKA
Schréder 



APPLICATIONS

- Street lighting
- Area lighting
- Security lighting
- Parking areas
- Roads in off-grid areas

KEY ADVANTAGES

- Designed to operate reliably at a high light output over a 12 to 14 hour period
- It has sufficient autonomy to cater for up to two continuous overcast or rainy days, to continue its reliable night operation
- Integrated solar components
- Theft and vandal resistant
- Engineered for all geographical locations in Africa

For luminaire specifications, refer to the LEDlume range brochure.

LED

- Designed to operate LED light sources of up to 80W in an ambient temperature (T_a) environment of up to 25°C, without reducing the useful lifetime of 100 000 hours, at a lumen depreciation of not more than 30% (L_{70})
- Effective high-power LED at a colour rendering index ≥ 70

MATERIAL

- The mast and luminaire bracket are manufactured from hot-dipped galvanized, mild steel.
- The battery housing is manufactured from powder-coated mild steel and linear low-density polyethylene (LLDPE).

BATTERY

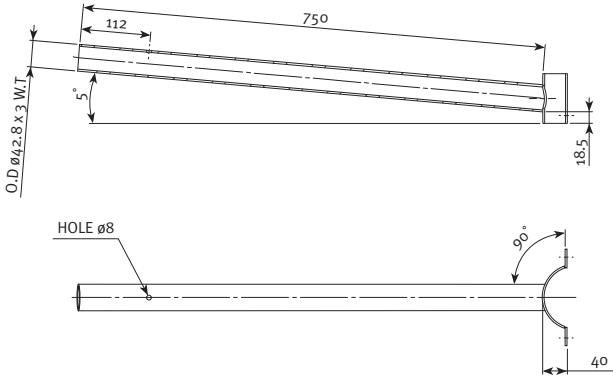
- Deep discharge maintenance-free battery with an expected lifetime of 5-7 years.
- Sufficient capacity to cater for up to two overcast or rainy days.
- Autonomy days: 2 or 3 days, depending on the battery capacity selected.

SOLAR MODULE

- Polycrystalline module with an expected minimum lifetime of up to 20 years.
- Rated output: 180-260W depending on the system load and geographical location.

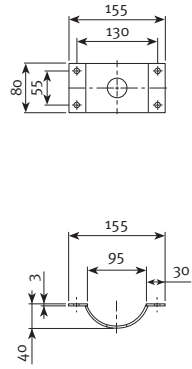
DIMENSIONS IN MM

Solar Outreach

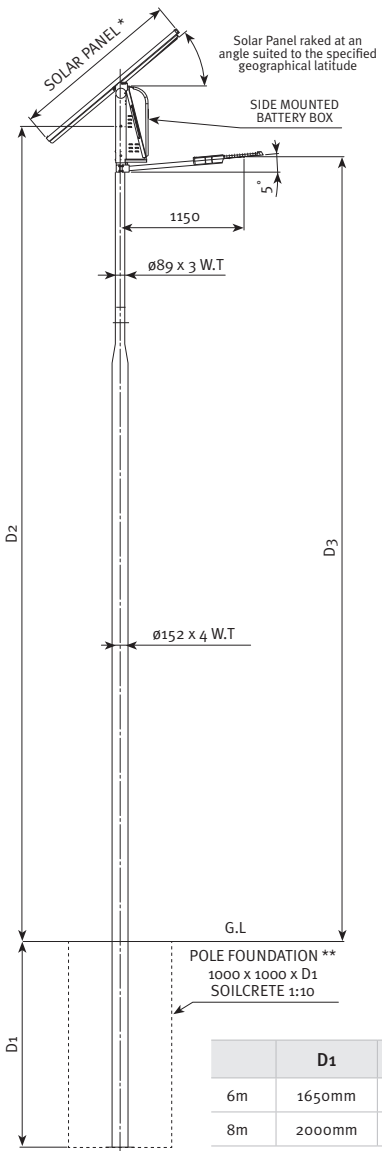


Pole Clamp

(2 per assembly: 1 with $\varnothing 32$ mm hole, 1 without hole)

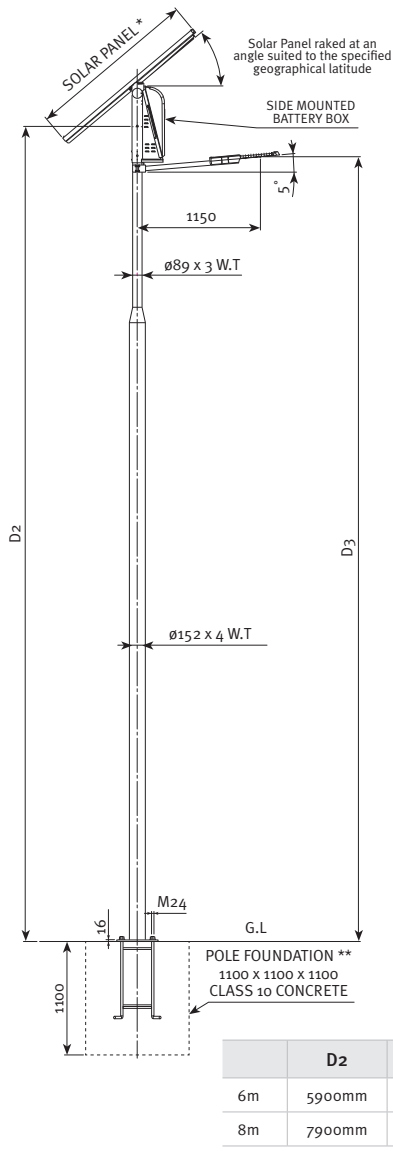


Buried Solar

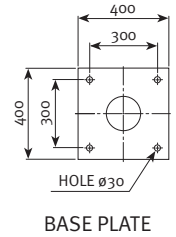


	D1	D2	D3
6m	1650mm	5900mm	5610mm
8m	2000mm	7900mm	7610mm

Surface Mount Solar



	D2	D3
6m	5900mm	5610mm
8m	7900mm	7610mm



Please note:

*Solar panel size varies according to different power requirements due to geographical locations.

**Only indicative, dependent on soil condition. Please contact us for suggested pole foundation specifications.

ORDERING DATA

DESCRIPTION	COLOUR TEMPERATURE	LUMEN ^(*)	MASS (KG)
LEDlume			
LEDlume-mini 16/36W	4000K	4701	5
LEDlume-midi 36/55W	5000K	7 200	7
LEDlume-midi 36/55W - with OptiPower	5000K	7 200	7
LEDlume-midi 36/80W - with OptiPower	5000K	9 288	7
ZELA			
ZELA 16/37W	4000K	4 326	4.9

Note: Solar outreach for BEKA SOLAR with ZELA post top luminaire will differ. Contact us for detailed information.

^(*) The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

Electronic data files can be downloaded from www.beka-schreder.co.za/knowledge-base

OPTIONS AND ACCESSORIES

MECHANICAL	
Steel pole	1m outreach arm, 5° rake, 6m mounting height, flange mounted
	1m outreach arm, 5° rake, 6m mounting height, buried version
	1m outreach arm, 5° rake, 8m mounting height, flange mounted
	1m outreach arm, 5° rake, 8m mounting height, buried version
Installation options	Buried battery box
	Stubby (instead of concrete foundation) request drawing P01-01-79-H
	Bolt cage, request drawing P13-01-16-A
PHOTOMETRICS	
Optics	5068
	5098
	5102
	5103
	5112
	5117
	5118

Designed and manufactured by BEKA Schröder (Pty) Ltd - South Africa
Manufacturers of Luminaires and Glass Fibre Poles

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