

SOLARFLOOD

LED solar lighting highmast solution



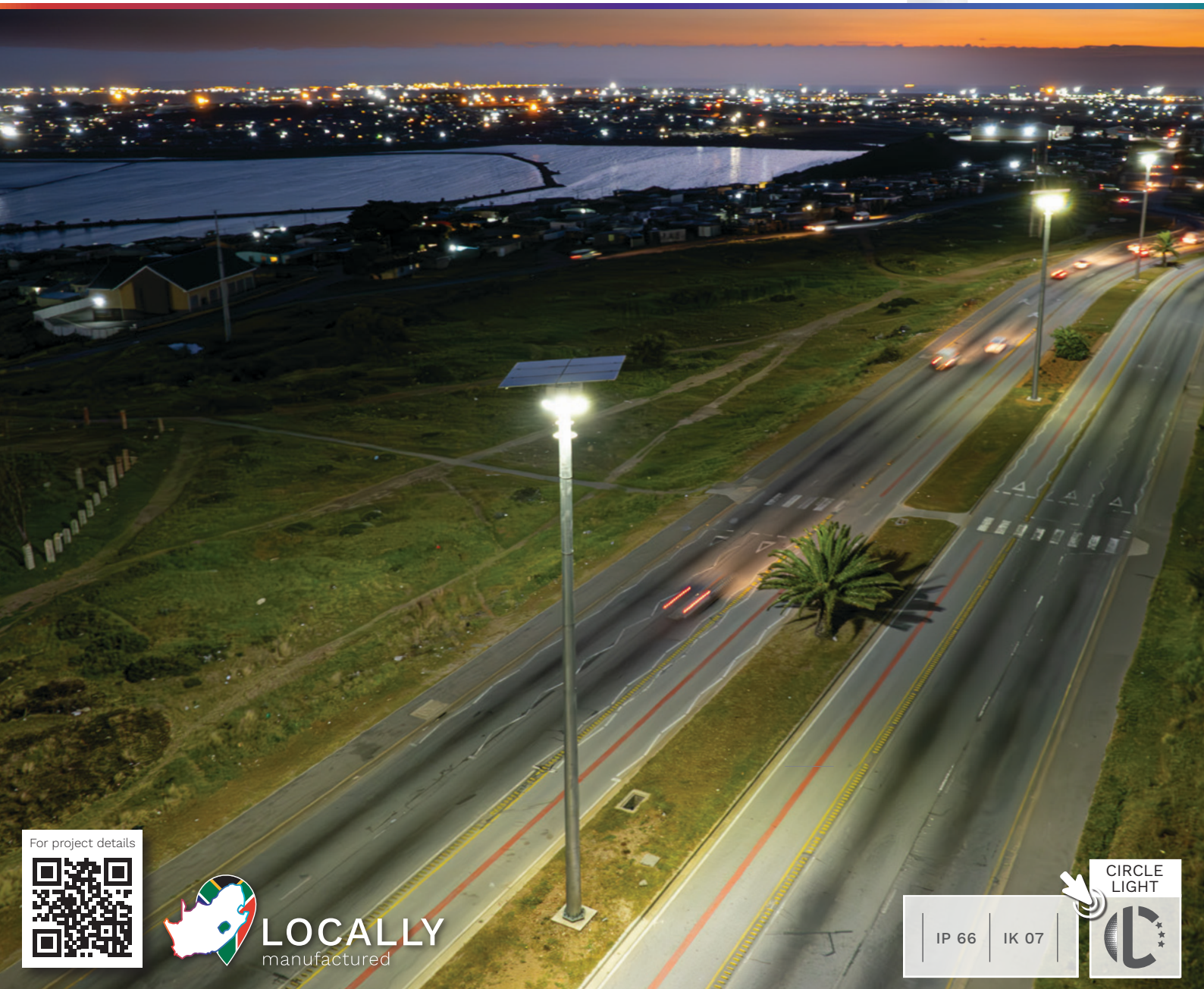
Fixed mast layout



Single unit



Ring mast layout



For project details



LOCALLY
manufactured

IP 66

IK 07



CIRCLE
LIGHT

Key advantages

- Designed and manufactured in South Africa
- Specifically engineered for various geographical locations in Africa
- It has sufficient autonomy to cater for up to two continuous overcast or rainy days, to continue its reliable night operation at an average 11-hour period
- Long life lithium (LifePO4) energy storage technology, offering up to 8 years battery lifetime
- Designed to withstand wind speeds of up to 144km/h and highly corrosion resistant
- Using latest photometric light distributions and highest efficient LED technology to provide maximum light levels and spacing between masts
- Circular economy 3-star rating
- Warranty up to 5 years (Terms and conditions apply)



Characteristics

GENERAL INFORMATION

Autonomy days	2 days
Geographical location	Designed and optimised for various locations
Aerodynamic resistance (CxS)	At 5° panel rake angle, including the side mounted energy storage enclosure: 0.312m ² (side) 0.411m ² (front)
Solar module technology / Rated lifetime	Monocrystalline 120 cell module: 25 years / 80%
Energy storage technology / Expected lifetime	Lithium: 5-8 years
System operating voltage	12V DC
Operating temperature range (Ta)	-10°C up to +45°C

SOLARFLOOD

Standard

PREMIUM

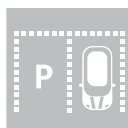
Nominal flux (up to)	12,544lm	21,256lm
Nominal efficacy (up to)	195lm/W	227lm/W
Colour temperature	4000K (Neutral white 740) 5700K (Cool white 757) CRI ≥70	
Lifetime of the LEDs @Tq 25°C	100,000h - L95B10	



OFF-GRID AREAS



HIGHMAST
LIGHTING



CAR PARKS



SQUARES &
PEDESTRIAN
AREAS

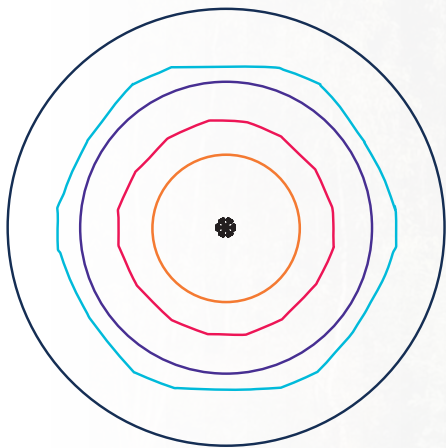
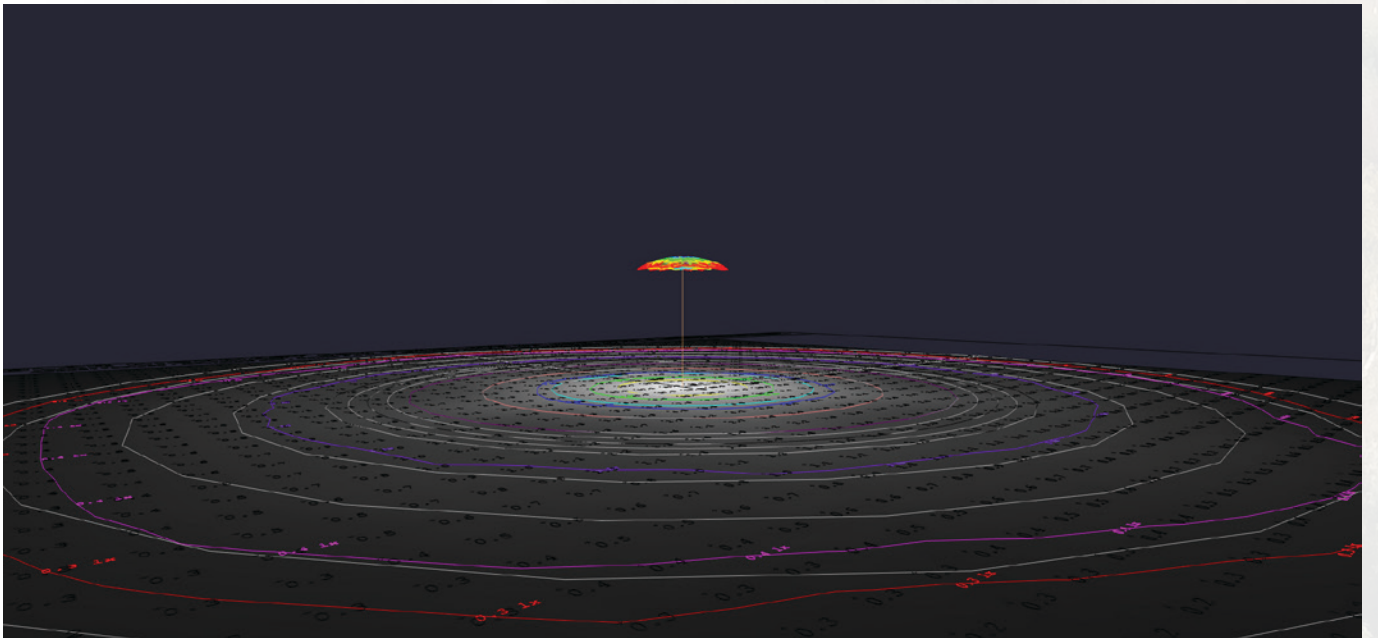


SECURITY
LIGHTING

Case Study: Solar Highmast Strategic Lighting for Rural Areas



Specifications
Number of solar units per highmast: 6
Pole height: 20m



Design Results	SOLARFLOOD		SOLARFLOOD PREMIUM		
	10,244lm	12,544lm	14,786lm	17,638lm	21,256lm
20m*	16.47lx	19.43lx	30.1lx	36.48lx	43.96lx
40m*	9.88lx	11.65lx	20.12lx	24.27lx	29.25lx
60m*	6.41lx	7.55lx	15.14lx	18.27lx	22.02lx
80m*	4.23lx	4.97lx	10.61lx	12.71lx	15.32lx
100m*	3.18lx	3.75lx	7.5lx	8.97lx	10.81lx

*Diameter

Please note: Results are related to geographical location.

Above calculations are for demonstration purposes, please contact us for full design results.

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

2024-11

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