

SOL-ONE

Integrated solar luminaire



LOCALLY
manufactured

IP 66 | IK 08



CIRCLE
LIGHT

Key advantages

- Designed and manufactured in South Africa
- Flexible LED engine configurations to cover a wide range of applications
- Fixed spigot base plug-and-play design, eliminating installation errors
- Low glare
- Aesthetic visual appearance
- Designed to operate from sunset to sunrise using dimming profiles and movement sensors where applicable
- Sufficient autonomy to cater for up to two continuous overcast or rainy days, to continue its reliable night operation
- Specifically engineered for all geographical locations in Africa
- Hail- and corrosion-resistant solar module
- 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)	0.19m ²
Solar module technology / Rated lifetime	Monocrystalline photovoltaic 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 +40°C

SOL-ONE

Nominal flux (up to)	18,287lm
Nominal efficacy (up to)	206lm/W
Colour temperature	4000K (Neutral white 740), 3000K (Warm white 730), 5700K (Cool white 757) CRI ≥70
Lifetime of the LEDs @Tq 25°C	100,000h - L90B10



OFF-GRID AREAS



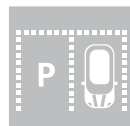
URBAN & RESIDENTIAL STREETS



BIKE & PEDESTRIAN PATHS



SQUARES & PEDESTRIAN AREAS



CAR PARKS



SHOPPING CENTRES



SECURITY LIGHTING



SPORT AREAS



SERVICE STATIONS

Case Study: 250W HPS Comparison



Specifications

Road: A4 - no median - 600 vehicles

	Luminaire fitted with 250W High-Pressure Sodium Lamp	SOL-ONE 1830 Optic 5428
Mounting height: 8m		
Spacing between luminaires	40m	39m
Lighting level	1.02 cd/m ²	0.9 cd/m ²
Overall uniformity	71%	67%
Mounting height: 10m		
Spacing between luminaires	44m	45m
Lighting level	0.84 cd/m ²	0.92 cd/m ²
Overall uniformity	71%	64%

Please note: Indicative only. Detail on lighting design comparison available on request.



Application Option: Parking Area



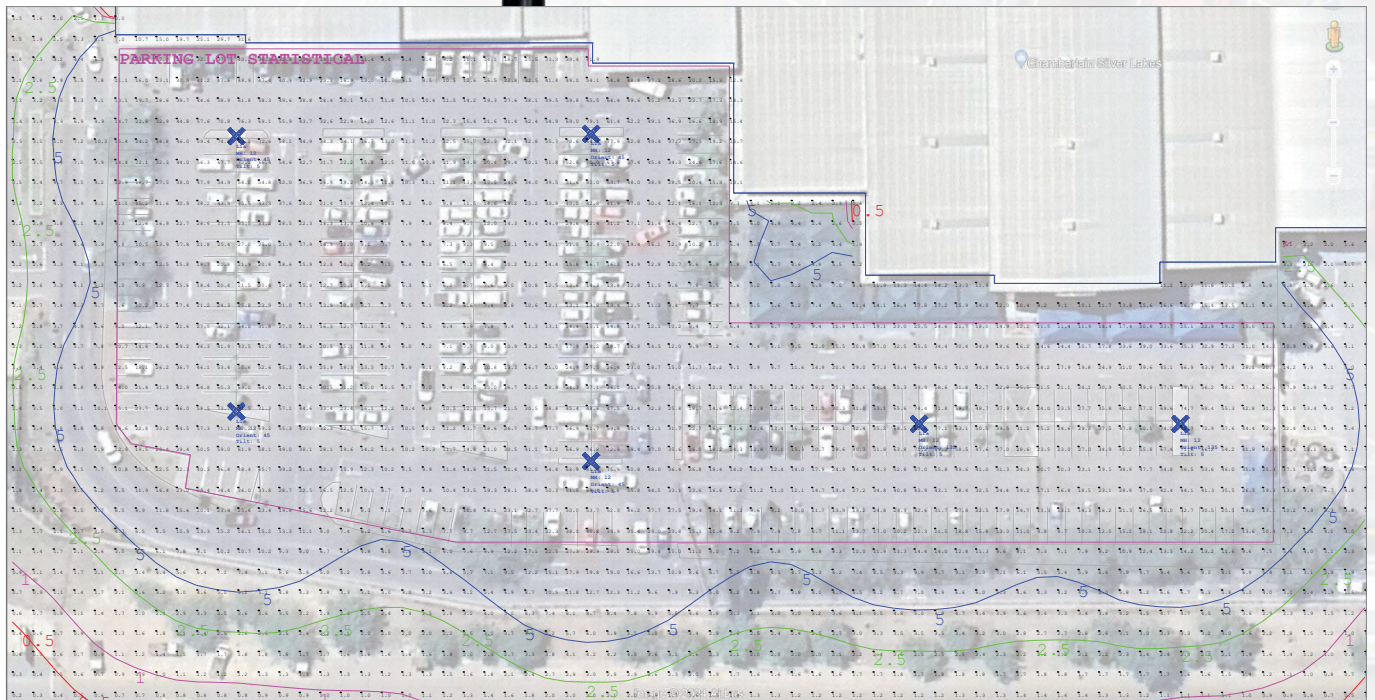
Specifications

Product: SOL-ONE 1830 with optic 5428

Mounting height: 10m

Quantity: 6 poles

Luminaire arrangement: 4 per pole



Average lighting level achieved: 27.75 lux

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



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Designed and manufactured by BEKA Schröder (Pty) Ltd



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