

LED FLOOD

High-performance LED floodlight

SA PAT. 2012/07685



LED FLOOD-MIDI



LED FLOOD-MAXI



For project details



LOCALLY
manufactured

			IP 66	Up to IK 10	Up to 20kV			
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CONTROL

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CIRCLE LIGHT

Key advantages

- Designed and manufactured in South Africa
- Designed to operate LED light sources of up to 231W/37,429lm 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 5% (L95B10)
- Easy to install
- No lamp or component replacements for more than 10 years
- Designed for easy technology upgrade (FutureProof)
- Marine grade, high-pressure die-cast aluminium housing
- Designed to replace conventional HID and CFL streetlight and floodlight luminaires (up to 600W HPS) with energy savings up to 70%
- Three-compartment housing, ensures reliable ingress protection
- Automatic disconnection of power when opened
- Surge protection 10kV/10kA
- Circular economy 4-star rating
- 5-year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Testing standard	SANS 475, SANS 60598, SANS 62262	
Housing	Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300)	
Protector	High-impact clear glass	High-impact polycarbonate (optional)
Housing finish	Unpainted aluminium	
Aerodynamic resistance (CxS)	MIDI: 0.19m ²	MAXI: 0.22m ²
Standard mounting	Stirrup mount	
Nominal voltage	198-264V – 50Hz	
Surge protection	10kV / 10kA	20kV / 20kA (optional)
Operating temperature range (T _a)	-35°C up to +50°C	
LEDFLOOD	MIDI	MAXI
Wattage (up to)	152W	231W
Nominal flux (up to)	26,427lm	37,956lm
Luminaire output flux (up to)	23,256lm	33,401lm
Luminaire efficacy (up to)	171lm/W	159lm/W
Colour temperature	4000K (Neutral white 740); 3000K (Warm white 730); 5700K (Cool white 757) CRI ≥70	
Lifetime of the LEDs @T _q 25°C	100,000h - L95B10	
Lifetime of the Driver @T _q 25°C	100,000h ≤10% failure rate	



Case Study: Highmast installation 400W HID replacement

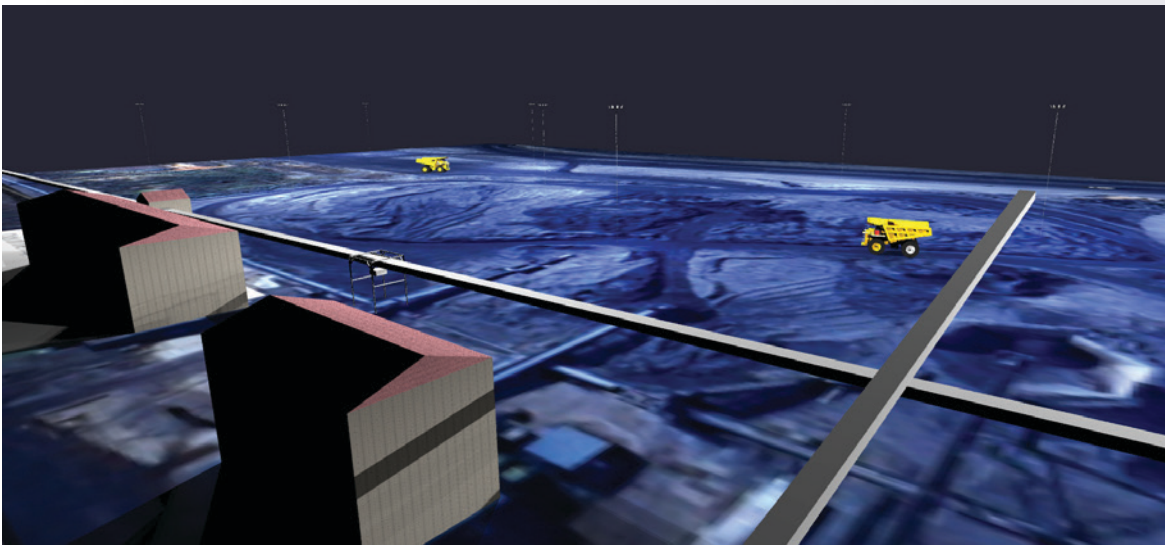


Specifications

Number of units per highmast: 9
Pole height: 30m

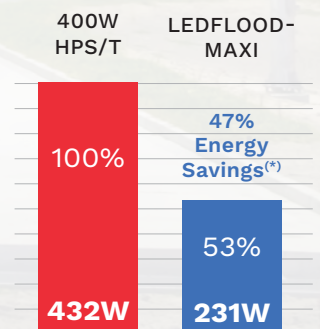
Comparing a 400W HID to a LEDFLOOD-MAXI highmast installation in a coal mine

The LEDFLOOD-MAXI provides a 47% energy saving compared to a 400W high-intensity discharge luminaire, whilst fully meeting the application light level requirements.



	Luminaire fitted with 400W High-Pressure Sodium Lamp	LEDFLOOD-MAXI 120 LED
Luminaire power consumption	432W	231W
Maintenance factor	0.75	0.8
$E_{h_{ave}}$	18.95lux	17.56lx
E_{min}	5.8lux	4.3lx
Total power consumption (W)	38 880W	20 790W

Energy Savings



Detail on lighting design comparison available on request.

^(*)Optic 5356, optimised design based on specifications

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SABS
ISO 9001



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Designed and manufactured by BEKA Schröder (Pty) Ltd



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