

# 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 265W/43,584lm in an ambient temperature (Tq) 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)

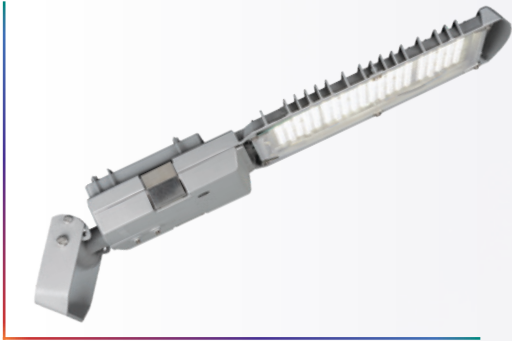
## Characteristics

### 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: 0.11m <sup>2</sup>	MAXI: 0.18m <sup>2</sup>
Standard mounting	Stirrup mount	
Nominal voltage	198-264V – 50Hz	
Surge protection	10kV / 10kA	20kV / 20kA (optional)
Operating temperature range (Ta)	-35°C up to +50°C	
<b>LEDFLOOD</b>	<b>MIDI</b>	<b>MAXI</b>
Wattage (up to)	147W	265W
Nominal flux (up to)	23,496lm	43,584lm
Luminaire output flux (up to)	20,676lm	38,354lm
Luminaire efficacy (up to)	154lm/W	148lm/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 - L95B10	
Lifetime of the Driver @Tq 25°C	100,000h ≤10% failure rate	



# Case Study: Highmast installation 400W HID replacement

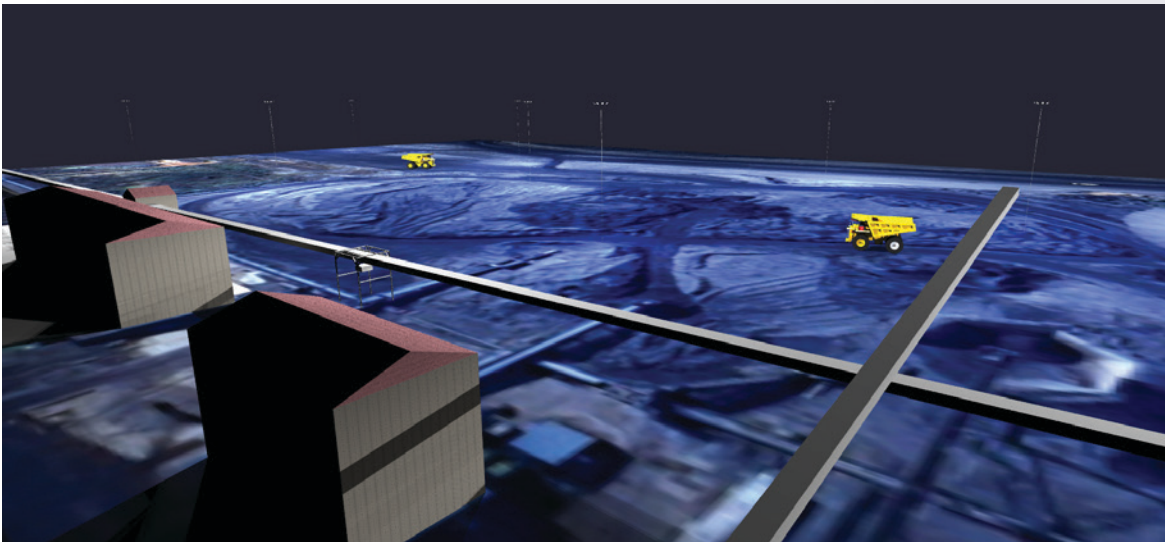


## Specifications

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

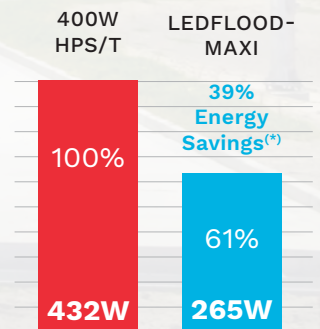
## Comparing a 400W HID to a LEDFLOOD-MAXI highmast installation in a coal mine

The LEDFLOOD-MAXI provides a 39% 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 160 LED
Luminaire power consumption	432W	265W
Maintenance factor	0.75	0.8
$E_{h_{ave}}$	18.95lux	18.83lux
$E_{min}$	5.8lux	5.8lux
Total power consumption (W)	38 880W	23 850W
Total cost of ownership (TCO) over 10 years based on R1.83/kWh	R3 580 620	R2 683 345

## Energy Savings



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

Detail on lighting design comparison available on request.

# BEKA Schröder

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ISO 9001



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Designed and manufactured by BEKA Schröder (Pty) Ltd



**LOCALLY**  
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