

# OMNIstar

High-power LED floodlighting solution



# OMNIstar



IP 66

IK 08



OMNIstar-midi



OMNIstar-maxi

## Modular LED solution for high-power applications

The OMNIstar has been designed to provide an unrivalled combination of performance and flexibility for lighting areas where high lumen packages are needed while offering maximum savings in energy and maintenance costs with a short payback time. This modular luminaire can be installed on a high mast with a bracket of one, two or three luminaires to provide the lighting distribution and lumen package needed to meet the specifications of the area to be lit. With on-site photometric adjustment, the OMNIstar guarantees the perfect lighting to ensure safety and comfort. It offers a real alternative to luminaires equipped with high-power traditional sources, with the added advantages of an LED solution: low energy consumption, improved visibility with white light, limited maintenance and longer life.

To withstand even the most corrosive environments, the luminaire housing can be especially e-coated (optional). The OMNIstar can be fitted with the Owllet range of control solutions to enable you to further maximise energy savings by adapting the light levels according to the real needs.

The luminaire is power factor corrected to  $\geq 0,95$ .

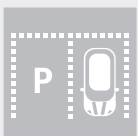
## Key advantages

- Manufactured in South Africa
- Designed to operate LED light sources of up to 463W 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% (L70)
- Cost effective and efficient lighting solution to maximise energy and maintenance cost savings in high-power applications
- Modular concept to adapt to a wide range of specific needs
- ThermiX® (resists extreme temperatures:  $T_a$  up to 55°C) and IP 66 tightness level for long-lasting performance
- Compact size and remote gearboxes for installation flexibility and limited footprint
- Instant switch on/off
- Sports applications: ball impact resistant
- Maintenance free
- Surge protection 10kV/10kA
- 5 year warranty (\*)

(\*) Terms and conditions apply



INTERCHANGE



AREA



INDUSTRIAL HARBOUR



HIGHMAST LIGHTING



FAÇADE



SIGNAGE



STADIUM



UNIVERSITY TRACK & FIELD

# Characteristics

## GENERAL INFORMATION

Recommended installation height	8m to 40m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262
Weight (kg)	OMNIstar-midi - including gearbox: 10.8 OMNIstar-maxi - including gearbox: 25.2 OMNIstar-maxi - excluding gearbox: 19.6
Aerodynamic resistance (CxS) (m²)	OMNIstar-midi: 0.12 OMNIstar-maxi: 0.168

## HOUSING AND FINISH

Housing	OMNIstar-midi: Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300) OMNIstar-maxi: High-pressure die-cast aluminium (EN 1706 AC-47100)
Optic	Acrylic PMMA
Protector	High-impact clear glass
Housing finish	Pearl Light Grey (RAL 9022), Textured finish
Tightness level	IP 66
Impact resistance	IK 08

## ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	198-264V – 50Hz
Power factor	> 95% at full load
Surge protection	10kV (standard)
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3-3:2013, SANS 61547:2009, SANS 62493:2015

For options and accessories, please turn to page 7.

## OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white)
Colour rendering index (CRI)	≥ 70
Standard optic	Midi: 5120 Maxi: 5188

## OPERATING CONDITIONS

Operating temperature range (Ta)	-40 °C up to +35 °C (*)
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(\*) Depending on the luminaire inclination and driving current. For more details, please contact us.

## LIFETIME OF THE LEDS @ TQ 25°C

For all versions	100,000h – L70B10
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## LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	100,000h ≤10% failure rate
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## Optical Technology



### LensoFlex®2

Lenses made out of PMMA



### BlastFlex™

Collimators made out of silicon

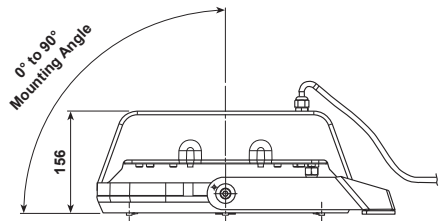
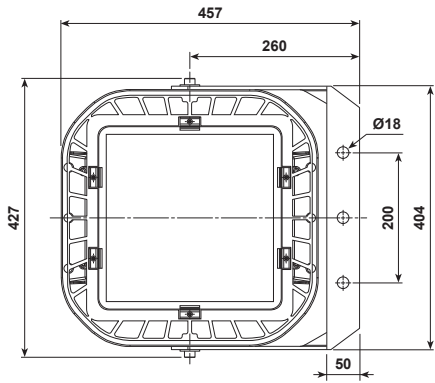


### ReFlexo™

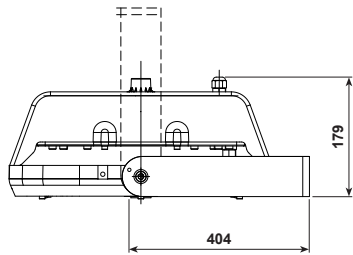
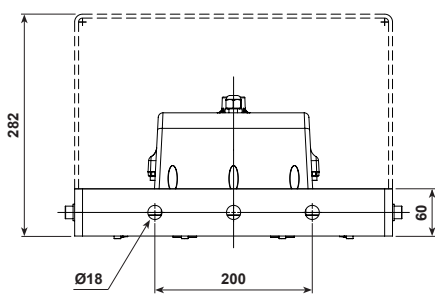
Reflectors made out of anodised aluminium with a superior reflective co-efficient

# Dimensions in mm

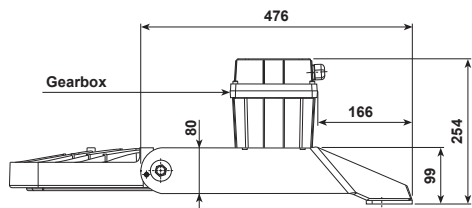
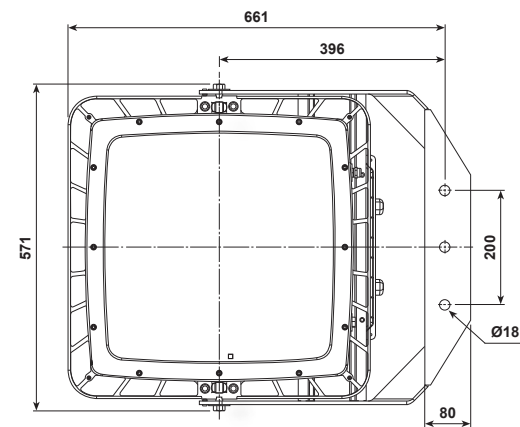
OMNIstar-midi



OMNIstar-midi U-bracket



OMNIstar-maxi





# Performance



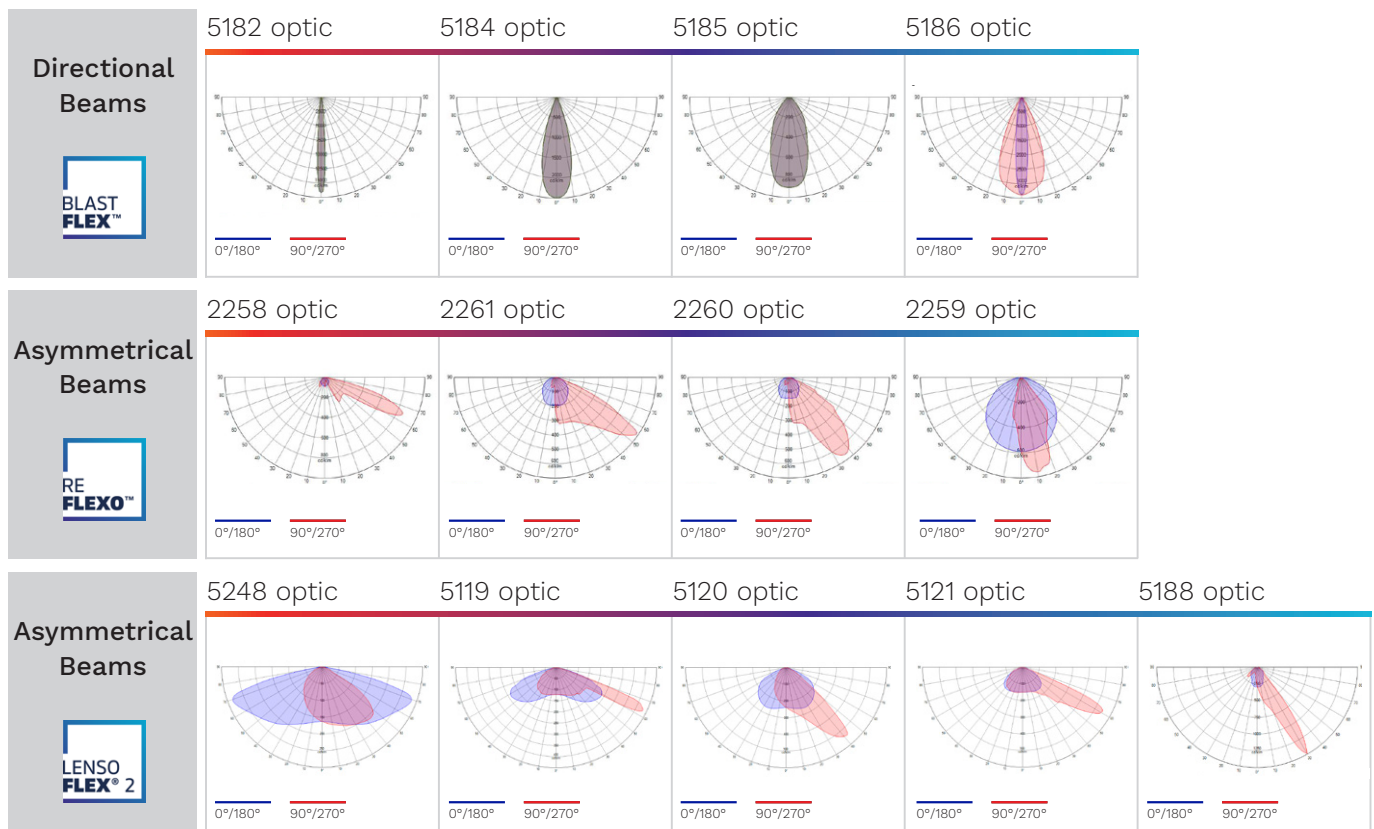
				Nominal flux (lm) <sup>(*)</sup>	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry
Luminaire	Number of LEDs	Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
OMNistar-midi	32	1000	0.47	13990	108	129	11752	109	
	40	1000	0.59	17490	135	129	14692	109	
	48	1000	0.71	20985	162	129	17628	109	
	64	1000	0.94	27980	216	129	23503	109	
OMNistar-maxi	144	700	1.4	47670	321	148	38990	121	
	144	1000	1.96	61950	451	137	50675	112	
	144	1000	1.9	68760	436 <sup>(**)</sup>	158	55920	128	

Tolerance on LED flux is  $\pm 7\%$  and on total luminaire power  $\pm 5\%$

<sup>(\*)</sup> The nominal flux is an indicative LED flux @ T<sub>J</sub> 25°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

<sup>(\*\*)</sup> High Lumen Output version

## Light Distributions



# Key Features



Optimal heat fin dissipation design and integrated gearbox



Rake angle adjustable on site



Highly efficient light distributions reduce the quantity of luminaires to be installed. Specific configurations available for emergency and zoned applications.



OMNistar-maxi: Suspended version

# Ordering Information

Example:

OMNIstar-md 64/216N5188S1G/SUDALIE

ID	LED	Watt	LED Colour	Optic	Colour	Surge Protection	Protector	Housing	Switching/ dimming control	Other options / accessories
OMNIstar-md	32	108	<b>N</b>	1220	<b>A</b>	<b>1</b>	<b>G</b>	<b>SU</b>	<b>DALI</b>	<b>E</b>
	40	135	Neutral white	1330	Aluminium	10kV	Glass clear	Stirrup -	DALI Dim	Emergency
	64	144 <sup>(1)</sup>	(4000K)	5068	finish	<b>2</b>	<b>P</b>	unpainted	<b>1-10</b>	version
	48	162	<b>W</b>	5119	(unpainted)	20kV	Polycarbonate	<b>SP</b>	1-10V Dim	<b>Z2<sup>(1)</sup></b>
	64	216	Warm white	5120	<b>S</b>			Stirrup - painted		Zone 2
			(3000K) <sup>(2)</sup>	5121	Pearl Light Grey			<b>UU</b>		<b>Z21/22</b>
			<b>C</b>	5188	(RAL 9022),			Wall bracket		Zone 21/22
			Cool white	5248 (5118 <sup>(4)</sup> )	Textured finish			unpainted		
			(5700K) <sup>(2)</sup>		<b>B</b>			<b>UP</b>		
					Black			Wall bracket		
					(RAL 9017),			Painted		
					Textured finish			Other		
					<b>O</b>			(RAL / Finish		
					Painted Other			[Brilliant/Matt])		
OMNIstar-ma	144	321	<b>N</b>	2258 <sup>(3)</sup>	<b>S</b>	<b>1</b>	<b>G</b>	<b>U</b>		<b>Z2<sup>(5)</sup></b>
		436	Neutral white	2259 <sup>(3)</sup>	Pearl Light Grey	10kV	Glass clear	Gear housing -		Zone 2
		451	(4000K)	2260 <sup>(3)</sup>	(RAL 9022),	<b>2</b>		unpainted		<b>Z21/22</b>
				2261 <sup>(3)</sup>	Textured finish	20kV		<b>P</b>		Zone 21/22
				5068 <sup>(3)</sup>	<b>B</b>			Gear housing -		
				5119 <sup>(3)</sup>	Black			Painted		
				5120 <sup>(3)</sup>	(RAL 9017),			<b>SU</b>		
				5121 <sup>(3)</sup>	Textured finish			Stirrup -		
				5182 (5125 <sup>(4)</sup> )	<b>O</b>			unpainted		
				5184 (5126 <sup>(4)</sup> )	Painted Other			<b>SP</b>		
				5185 (5127 <sup>(4)</sup> )	(RAL / Finish			Stirrup - painted		
				5186 (5128 <sup>(4)</sup> )	[Brilliant/Matt])			<b>HU</b>		
				5188				Highbay		
				5248 <sup>(3)</sup> (5118 <sup>(4)</sup> )	<b>S</b>			suspended		
					Symmetric			bracket -		
					(Suspended			unpainted		
					version only)			<b>HP</b>		
								Highbay		
								suspended		
								bracket - painted		

<sup>(1)</sup> Zone 2 version only

<sup>(2)</sup> Only for the following optics: 5068, 5119, 5120, 5121, 5188, 5248

<sup>(3)</sup> Not available for High Lumen Output version

<sup>(4)</sup> Previous optic number. Due to better performance the optic was upgraded and was subsequently renumbered.

<sup>(5)</sup> Only available for 321W version

## Custom Options

### OMNIstar-midi

Extra treatment e-Coating (for very harsh environments)

### OMNIstar-maxi

	DALI
	1-10V
Switching/dimming control	Incorporated Nema socket assembly – 3-pin
	Incorporated Nema socket assembly – 7-pin, compatible with LuCo-P7 or standard daylight switch
	Owlet remote management (LuCo-P7)
Correlated colour temperature	3000K <sup>(1)</sup>
	5700K <sup>(1)</sup>
Extra treatment	e-Coating (for very harsh environments)

# BEKA Schröder

Experts in lightability™

**SABS**  
ISO 9001



[www.beka-schreder.co.za](http://www.beka-schreder.co.za)

Designed and manufactured by BEKA Schröder (Pty) Ltd



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