



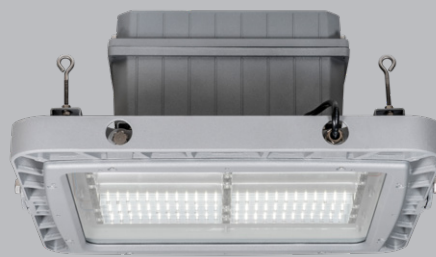
LED BAY



BEKA Schröder
Experts in lightability™



LEDbay-midi



OMNistar-maxi suspended version

CHARACTERISTICS - LUMINAIRE

Optical compartment tightness level:	IP 66 ^(*)
Control gear compartment tightness level:	IP 66 ^(*)
Impact resistance (glass):	IK 07 ^(**)
Nominal voltage:	198-264V - 50Hz
Electrical class:	I ^(**)
Operating temperature (T _a):	-30°C to +50°C
Weight (total):	8kg
Standard colour:	Pearl Light Grey (RAL 9022), Textured finish
Materials:	Housing: High-pressure die-cast aluminium (EN 1706 AC-47100)
	Protector: Glass

LED light sources

Correlated colour temperature (CCT):	Neutral white (4000K, CRI ≥70)
Wattage:	108W - 463W
Flux:	13990lm - 54501lm

^(*) according to SANS 60598

^(**) according to SANS 62262

APPLICATIONS

- Factories
- Warehouses
- Hangars
- Workshops
- Gymnasia
- Retail areas
- Service stations
- Manufacturing plants

OPTIONS

- Fully dimmable 0%-100% (DALI, 1-10V)
- Polycarbonate diffuser (IK 10)
- Steel wire suspension
- Emergency version

KEY ADVANTAGES

- Designed and manufactured in South Africa
- Highly efficient and energy saving (replaces up to 600W HID light sources)
- Very flexible: Available for lowbay or highbay applications
- Optimised heatsink design by means of vertical rib design for up to 463W of heat dissipation

- Designed to operate LED light sources of up to 463W in an ambient temperature (T_a) environment of at least 35°C, without reducing the useful lifetime of up to 100 000 hours, at a lumen depreciation of not more than 30% (L70)
- Long lifetime and low maintenance, no lamp replacement for more than 10 years
- Various optical solutions available
- Flicker-free lighting
- 10kV/10kA surge protection
- 5 year warranty (Terms and conditions apply)

CONSTRUCTION DETAILS

The LEDbay-midi consists of a die-cast aluminium gear and optical housing, enclosed by a glass protector (IK 07) or optional polycarbonate protector (IK 10). The luminaire is suspended by means of a hook arrangement.

The luminaire bears the SANS 60598 safety mark.

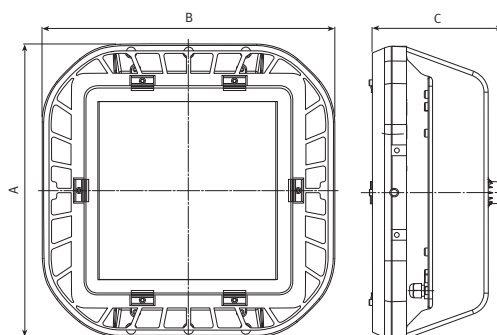
The electronic power supply is suitable for operation with a 198-264V 50Hz single phase system. The power factor is rated at ≥0,95.

Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®).

To withstand even the most corrosive environments, the luminaire housing can be especially e-coated (optional).

Various optical solutions are available to achieve the highest energy savings and the most economical solution for almost any application.

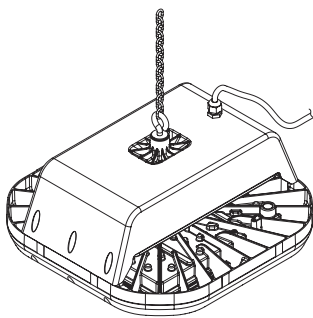
DIMENSIONS IN MM



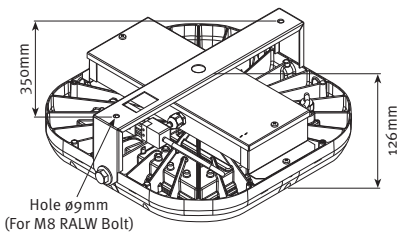
	LEDbay-midi	OMNistar-maxi
A	394	530
B	394	530
C	176	75

MOUNTING OPTIONS

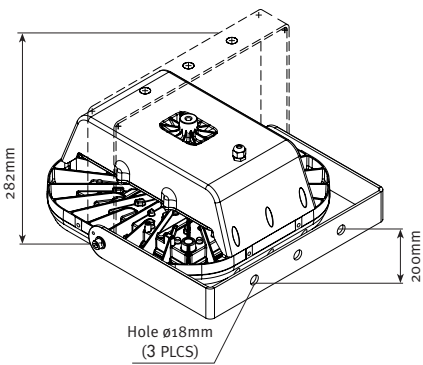
Hook arrangement (standard)



Surface mount (optional)



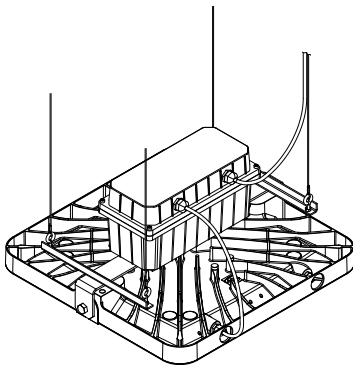
U-bracket (optional)



PHOTOMETRY

OVERVIEW			Lifetime residual flux @ T _a 25°C ^(*)
Number of LEDs	Neutral white (4000K)	128 LEDs	@60.000h
Current: 700mA	Nominal flux (lm)*	18000	70%
	Power consumption (W)	150	

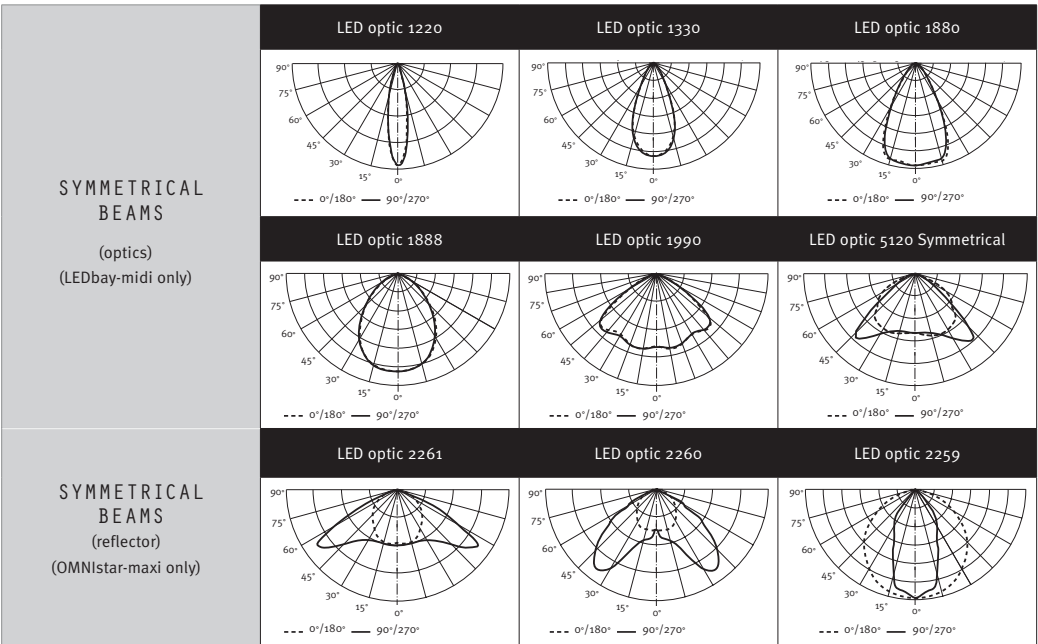
OMNistar-maxi suspended version



OVERVIEW							Lifetime residual flux @ T _a 35°C ^(**)
Number of LEDs	Neutral white (4000K)	32 LEDs	40 LEDs	48 LEDs	64 LEDs	144 LEDs	@100.000h
Current: 700mA	Nominal flux (lm)*	-	-	-	-	42549	70%
	Power consumption (W)	-	-	-	-	315	
Current: 1000mA	Nominal flux (lm)*	13990	17488	20985	27980	54501	
	Power consumption (W)	108	135	162	216	463	

^(*) The nominal flux is an indicative LED flux @ T_a 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.

^(**)In accordance with LM-80 – TM-21



ORDERING DATA

DESCRIPTION	LINE CURRENT (A)	LEDs	LED CURRENT (mA)	LUMEN	MASS (KG)
LEDbay-midi					
LEDbay-midi 108W	0.47	32	1 000	13 990	8
LEDbay-midi 135W	0.59	40	1 000	17 488	8
LEDbay-midi 162W	0.71	48	1 000	20 985	8
LEDbay-midi 216W	0.94	64 ⁽³⁾	1 000	27 980	8
OMNistar-maxi					
OMNistar-maxi 315W	1.37	144	700	42 549 ⁽¹⁾	20.6
OMNistar-maxi 463W	2.02	144	1000	54 501 ⁽¹⁾	20.6
EMERGENCY VERSION – 1 HOUR					
LEDbay-midi 108W	0.47	32	1 000	13 990/628 (EM)	8
LEDbay-midi 135W	0.59	40	1 000	17 488/692 (EM)	8
LEDbay-midi 162W	0.71	48	1 000	20 985/692 (EM)	8
LEDbay-midi 216W	0.94	64 ⁽³⁾	1 000	27 980/692 (EM)	8
LOW MOUNTING HEIGHT OPTION ⁽²⁾					
LEDbay-midi 150W	0.66	128	700	18 000	8
LEDbay-midi 150W - Emergency Version (1 hour)	0.66	128	700	18 000/794 (EM)	8

Standard colour: Pearl Light Grey (RAL 9022), Textured finish

Standard CCT: Neutral white (4000K)

⁽¹⁾ Mass includes gear box

⁽²⁾ Only with Optic 1888

⁽³⁾ Not applicable to Surface Mount version

OPTIONS

ELECTRICAL	
Dimming control	DALI
	1-10V
Correlated colour temperature	3000K (for optic 5120 only)
	5700K (for optic 5120 only)
Emergency	3 hour maintained (LEDbay-midi only)
MECHANICAL	
Mounting	Steel wire (specify length)
	Floodlight bracket (refer to OMNistar brochure)
	Surface mount
	U-bracket
Protector	Polycarbonate (IK 10)
Extra treatment	e-Coating (for very harsh environments)
Colour	White (RAL 9003), Textured finish
	Other RAL colour, Matt finish
	Other RAL colour, Brilliant finish
	Other RAL colour, Textured finish
PHOTOMETRICS	
Optics	1220* 1888*** 2259**
	1330* 1990* 2260**
	1880* 5120 - Symmetrical 2261**
EXPLOSION PROOF	
Classification	Zone 21/22

(*) Applicable to LEDbay-midi version only

(**) Applicable to OMNistar-maxi version only

(***) For 150W version only

Designed and manufactured by BEKA Schröder (Pty) Ltd - South Africa
Manufacturers of Luminaires and Glass Fibre Poles

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BEKA Schröder
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