

Experts in lightability™

OMNISTAR

MICRO / MINI

LED floodlighting solution













OMNISTAR MICRO / MINI







IP 66

Up to IK 10







OMNISTAR-MICRO



OMNISTAR-MINI

Where LED floodlight flexibility meets function

The OMNISTAR family is complete with the addition of the MICRO and MINI.

This LED floodlight range is available in the standard stirrup mount version and an optional pole mount version. This versatility makes it suitable for use in various environments, which include outdoor general area and perimeter floodlighting, mining areas, food and beverage, manufacturing and processing plants.

The OMNISTAR range has not only been developed for performance and reliability, but also with quality of light output in mind. Furthermore, the added advantages of an LED solution are provided: low energy consumption, improved visibility with white light, limited maintenance, and longer life.



WARFHOUSE



INDUSTRIAL HALL



INDUSTRIAL HARBOUR







AREA



SIGNAGE

FAÇADE

Key advantages

- Designed and manufactured in South Africa
- · Highly efficient and energy saving
- · White light with a high colour rendering index
- Designed to operate LED light sources of up to 116W without reducing the useful lifetime of up to 100 000 hours, at a lumen depreciation of not more than 5% (L95B10)
- Ta of up to 45°C
- · Slim, aesthetical design optimised for LED characteristics
- · Designed to replace conventional HID and CFL floodlight luminaires
- · Easy to install
- Surge protection 10kV/10kA
- · Circular economy 3-star rating
- 5-year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Recommended installation height	Up to 10m
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 475, SANS 60598, SANS 62262

HOUSING AND FINISH

using Marine grade high-pressure die-ca aluminium (EN 1706 AC-44300)	
Acrylic PMMA	
Glass	
High-impact polycarbonate (optional)	
Unpainted aluminium	
IP 66	
Glass: IK 07	
High-impact polycarbonate: IK 10	
Easy access to the gear compartment	

DIMENSIONS AND MOUNTING

AxBxC (mm)	MICRO: 419x275x82	
		MINI: 461x310x82
Weight (kg)	MICRO: 4.3	
		MINI: 5.3
Aerodynamic resistance (CxS) (m²)	MICRO: 0.09	
	MINI: 0.113	

For options and accessories, please turn to page 10.

ELECTRICAL INFORMATION

Electrical class	EU class I or II	
Nominal voltage	198-264V – 50Hz	
Power factor	> 95% at full load	
Surge protection	10kV / 10kA	
	20kV / 20kA (optional for MINI only)	
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3- 3:2013, SANS 61547:2009, SANS 62493:2015	
Control options	1-10V	
	DALI	
	Schréder ITERRA	
	Daylight switch (MINI only)	
	Integrated movement sensor up to 12m (MINI only)	

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white 740)
	5700K (Cool white 757) (optional)
Colour rendering index	≥ 70 (Neutral white 740)
(CRI)	≥ 70 (Cool white 757) (optional)
Standard optic	5366

OPERATING CONDITIONS

Operating temperature range (Ta)	-35°C up to +45°C (*)
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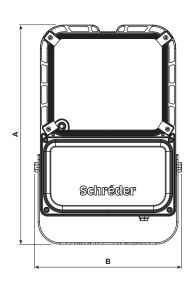
 $[\]ensuremath{^{(*)}}$ Depending on the luminaire fixation and driving current. For more details, please contact us.

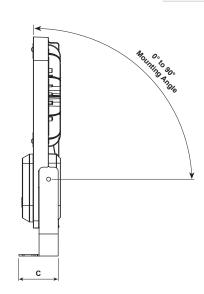
LIFETIME OF THE LEDS @ TQ 25°C

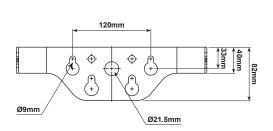
For all versions 100,000h - L95B10	
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LIFETIME OF THE DRIVER @ TQ 25°C

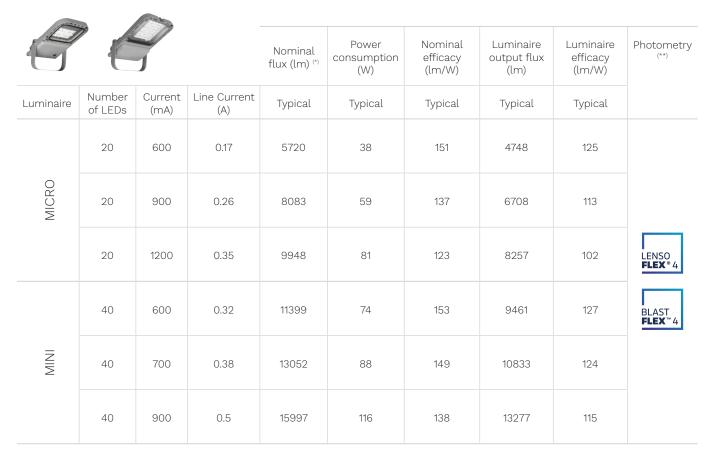
For all versions	100,000h ≤10% failure rate







Performance



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

Switching/dimming control



Schréder ITERRA

Schréder ITERRA provides a complete user- and installer-friendly wireless control solution for sports lighting applications.

Schréder ITERRA offers site managers a robust, cost-effective and FutureProof platform to run their infrastructure with the utmost flexibility for adapting the lighting to any scenario or event while maximising energy savings and providing the best experience for players, fans and the neighbourhood.

A mobile App based system, Schréder ITERRA is very easy to operate. It comes with a visual interface that users can quickly personalise to the layout and settings of their lighting installation.





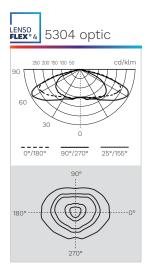


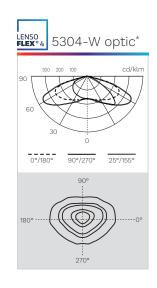
^(*) The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

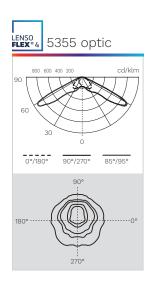
^(**) Custom combinations of lenses/optics to suit the project are available on request.

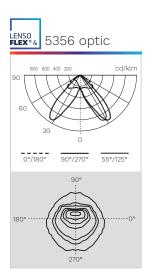
Light Distributions

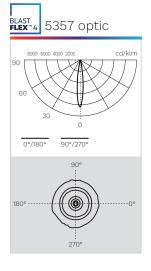
Custom combinations of lenses/optics to suit the project are available on request.

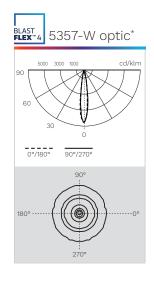


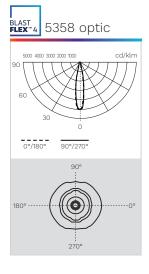


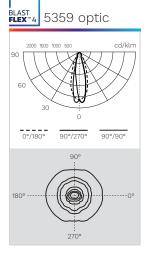


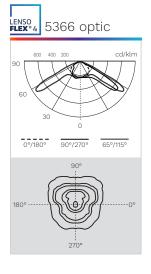


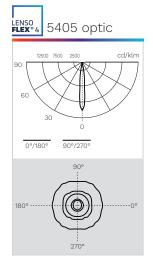


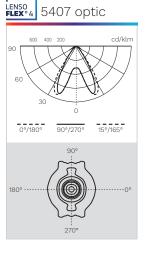












 $^{^{(*)}}$ Only available for OMNISTAR-MINI



LensoFlex®4



LensoFlex®4 maximises the heritage of the LensoFlex® concept with a very compact yet powerful photometric engine based upon the addition principle of photometric distribution. The number of LEDs in combination with the driving current determines the intensity level of the light distribution. With optimised light distributions and very high efficiency, this fourth generation enables the products to be downsized to meet application requirements with an optimised solution in terms of investment.

LensoFlex®4 optics can feature backlight control to prevent intrusive lighting, or a glare limiter for high visual comfort.



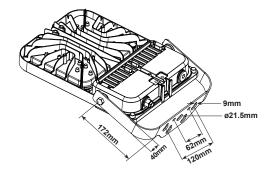
BlastFlexTM4



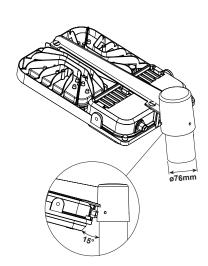
Using collimators made of high-transmission PMMA, the BlastFlex[™]4 photometric engine offers the highest efficiency for directional beams dedicated to specific applications in architectural and sports lighting. The ability to control the light with the highest accuracy reduces light spill in the surroundings, improves uniformity on the area to be lit and contributes to optimal use of the energy consumed.

Mounting Options

Stirrup mounting (standard)



Pole mounting (optional)



Key Features



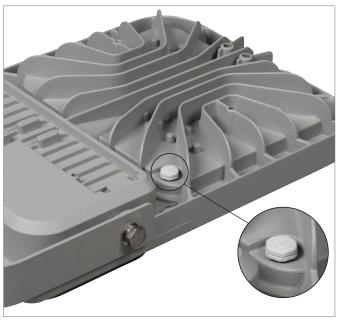
High-efficient LED light sources with various optical distributions available



Optimal heat fin dissipation design



Rake angle adjustable on site



Integrated vent (breather) on optical and gear compartment for rapid pressure equalisation and reduction of condensation (MICRO)

Case Study: 150W MH Comparison



Specifications

No. of poles: 4 Tennis court playing area:

24m x 11m Height: 8m

Comparing a 150W MH to an OMNISTAR-MINI recreational tennis court installation

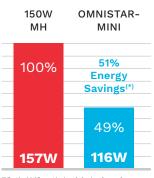
The OMNISTAR-MINI provides a 51% energy saving compared to a 150W metal halide luminaire, while fully meeting the required light level requirements.



	Luminaire fitted with 150W Metal Halide Lamp (3 per 8m pole)	OMNISTAR-MINI 116W (2 per 8m pole)
Luminaire power consumption (W)	157	116
Average illuminance (lx)	91.33	135.98
Min/Avg uniformity	0.76	0.63
Power consumption per installation (W)	1,884	928

Detail on lighting design comparison available on request.

Energy Savings

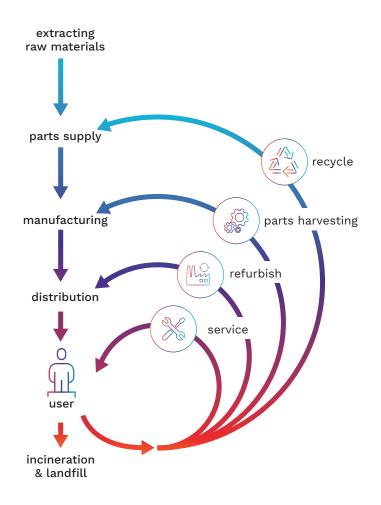


(*)Optic 1440, optimised design based on specifications





Circularity concept



OMNISTAR MICRO/MINI

Circularity focuses on reducing the environmental burden by valorising the flow of all materials.

It is mainly defined in opposition to the traditional linear economy: take, make and dispose. In a circular economy, products are part of a value network where they will be used for as long as possible.

Then, depending on their characteristics, they can be reused, refurbished, upgraded or recycled.

BEKA Schréder takes circular economy into account, right from the offset. Before we start to design our products, we incorporate it into their DNA.

After a careful analysis of the potential circularity of our luminaires, we decided to introduce a "circular lighting" product label. This label acts as a circular indicator for our customers.

It clearly designates products that are optimised for circular economy through 12 objective criteria.

Circular highlights:



Equipped with a completely replaceable LED engine



Materials with a high rate of recyclability

Star rating:



It was designed to be cost-efficient



It was built to last but not with circular economy requirements



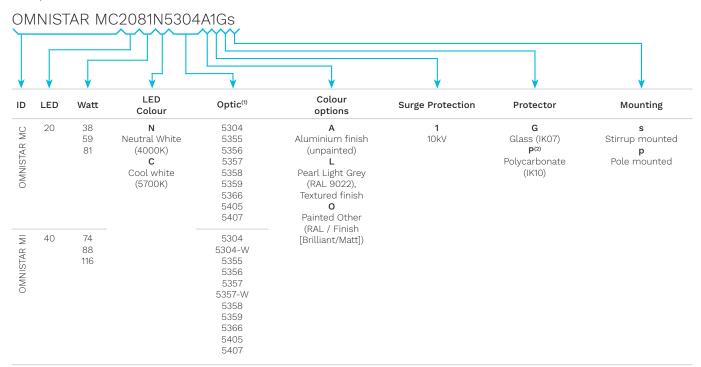
It was developed to meet most of circular economy requirements



It was developed to fully meet circular economy requirements

Ordering Information

Example:



⁽¹⁾ Custom combinations of lenses/optics to suit the project are available on request.

Custom Options

OMNISTAR-MICRO & OMNISTAR-	MINI	
	DALI	
Switching/dimming control	1-10V	
	Integrated Schréder ITERRA	
Extra treatment	Anti-corrosion treatment (for very harsh environments)	
OMNISTAR-MINI only		
Switching/dimming control	Daylight switch	
	Integrated movement sensor up to 12m	
Surge protection	20kV	

⁽²⁾ Suitable for Food & Beverage industry











www.beka-schreder.co.za

Designed and manufactured by BEKA Schréder (Pty) Ltd

