

OMNISTAR

MICRO / MINI

LED floodlighting solution



LOCALLY
manufactured

OMNISTAR MICRO / MINI



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.

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 103W without reducing the useful lifetime of up to 80 000 hours, at a lumen depreciation of not more than 30% (L70)
- Ta of up to 40°C
- Slim, aesthetical design optimised for LED characteristics
- Designed to replace conventional HID and CFL floodlight luminaires
- Easy to install
- Surge protection 10kV/10kA
- 5 year warranty (Terms and conditions apply)



WAREHOUSE



INDUSTRIAL HALL



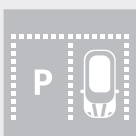
INDUSTRIAL HARBOUR



LOADING BAY



RECREATIONAL SPORT



AREA



FAÇADE



SIGNAGE

Characteristics

GENERAL INFORMATION

Recommended installation height	Up to 8m
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262

HOUSING AND FINISH

Housing	Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300)
Optic	Acrylic PMMA
Protector	Glass High-impact polycarbonate (optional)
Housing finish	Unpainted aluminium
Tightness level	IP 66
Impact resistance	Glass: IK 07 High-impact polycarbonate: IK 10
Access for maintenance	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) (m ²)	MICRO: 0.09 MINI: 0.113

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

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white 840)
Colour rendering index (CRI)	≥ 80 (Neutral white 840)
Standard optic	1440

OPERATING CONDITIONS

Operating temperature range (Ta)	-35°C up to +40°C (*)
----------------------------------	-----------------------

(*) Depending on the luminaire fixation and driving current. For more details, please contact us.

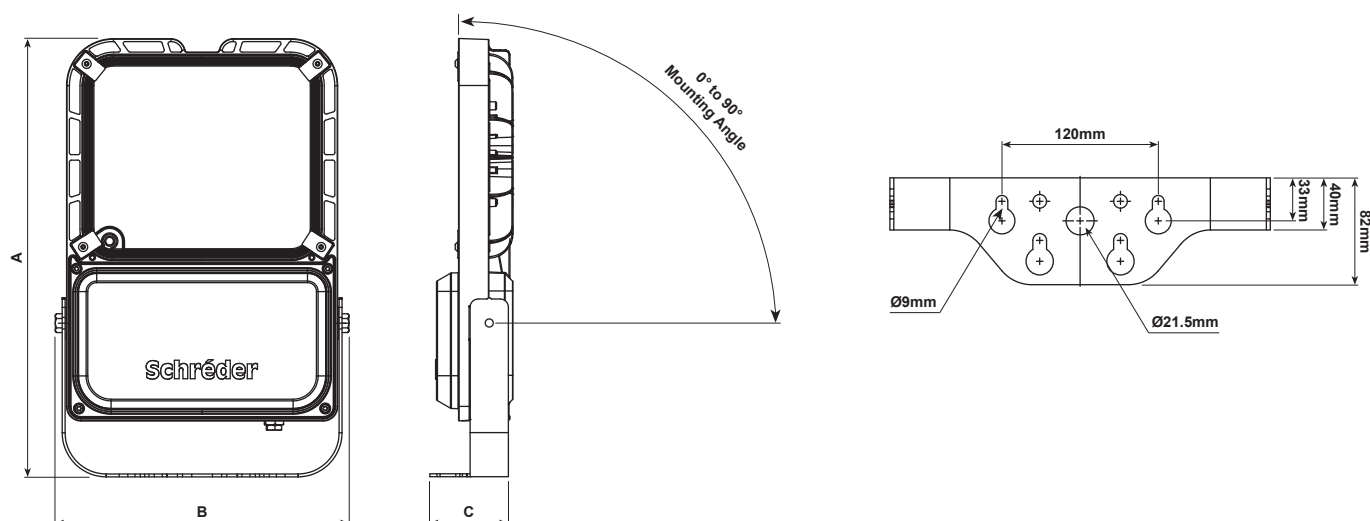
LIFETIME OF THE LEDS @ TQ 25°C

For all versions	80,000h - L70B10
------------------	------------------

LIFETIME OF THE DRIVER @ TQ 25°C

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

For options and accessories, please turn to page 7.



Performance



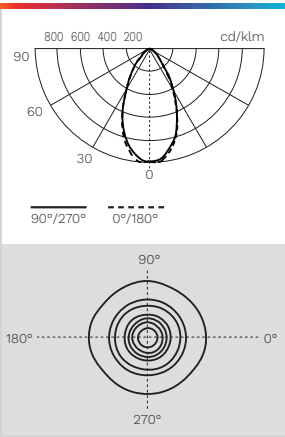
				Nominal flux (lm) ^(*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry
Luminaire	Number of LEDs	Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
MICRO	64	700	0.15	5740	36	159	5338	148	1110 1220 1440
	128	700	0.29	11480	75	153	10370	138	
MINI	192	700	0.44	17220	103	167	15550	151	1110 1220 1440

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

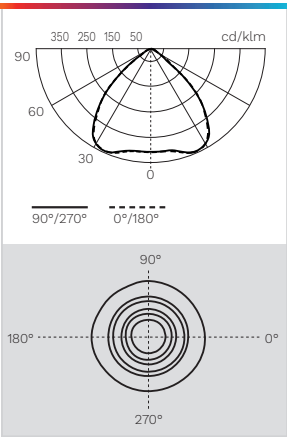
(*) The nominal flux is an indicative LED flux @ Tj 25°C based on LED manufacturer’s data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

Light Distributions

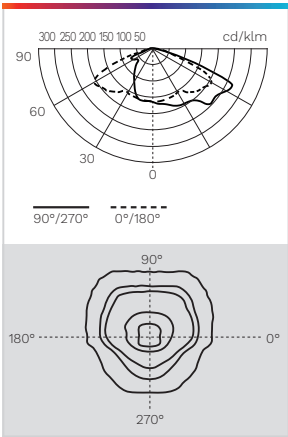
1110 optic



1220 optic



1440 optic

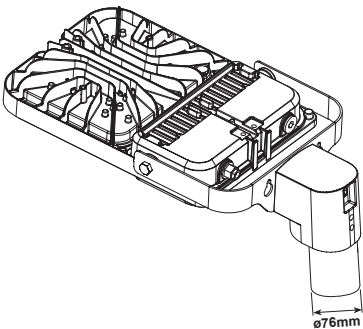
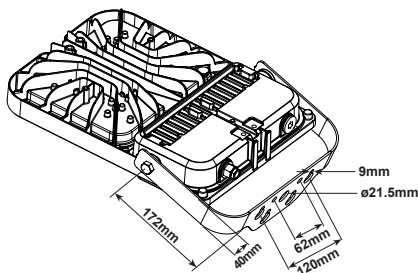


Mounting Options

OMNISTAR-MICRO & OMNISTAR-MINI

Stirrup mounting (standard)

Pole mounting (optional)



Key Features



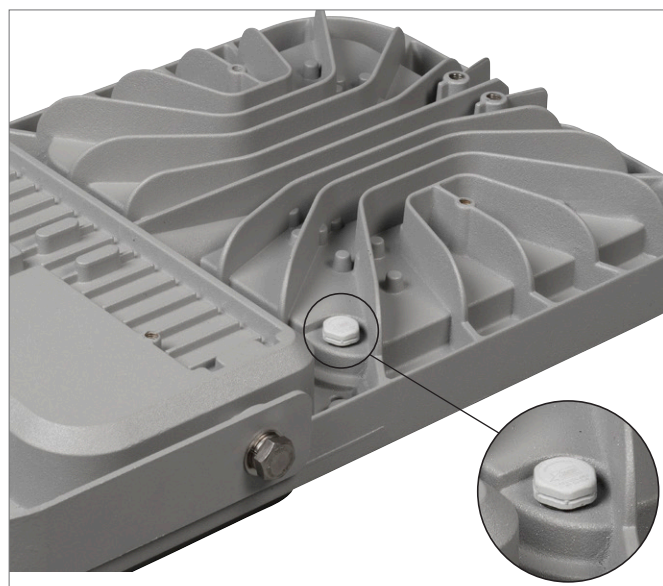
High-efficient LED light sources with various optical distributions available



Optimal heat fin dissipation design



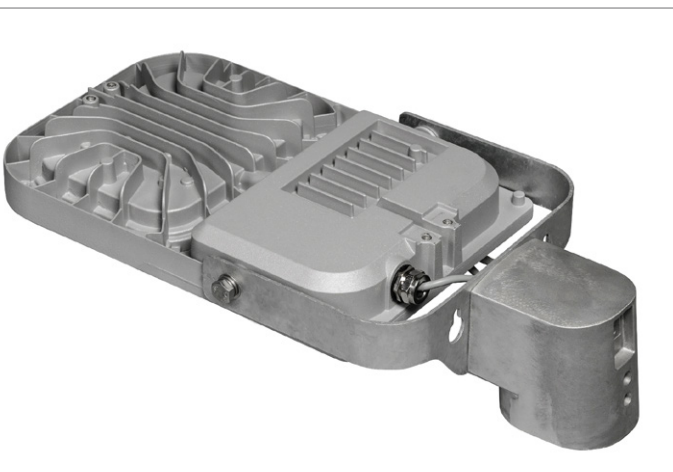
Rake angle adjustable on site



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



Optional pole mounting



Case Study: 150W MH Comparison

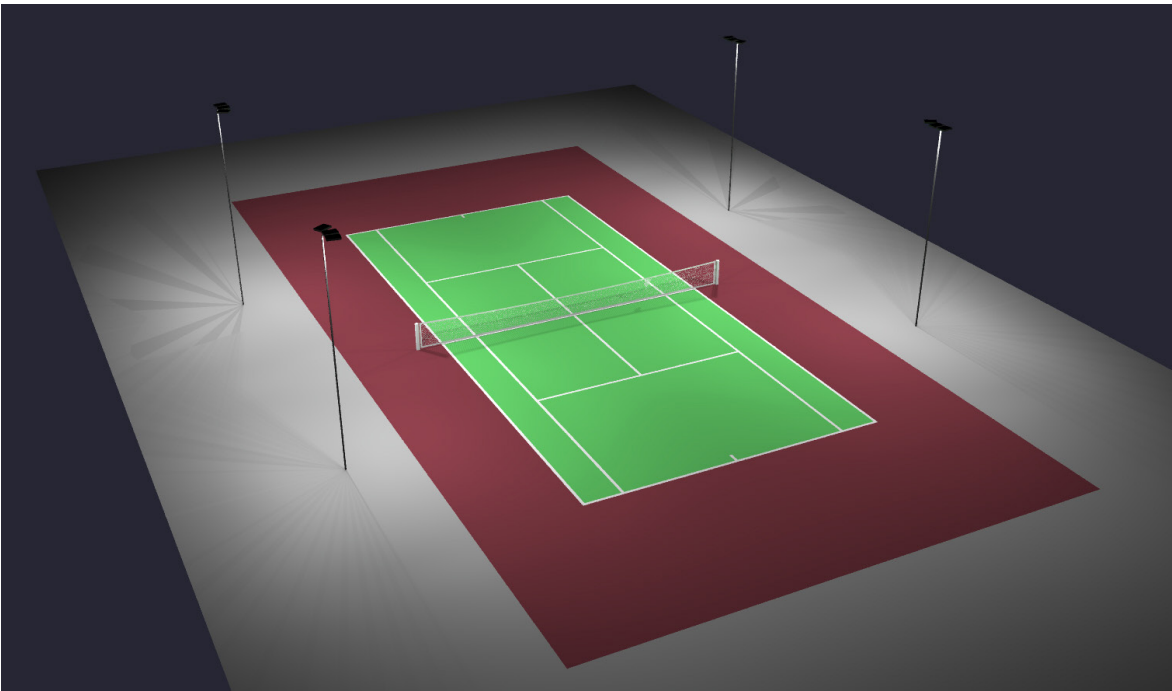


Specifications

No. of poles: 4
No. of luminaires: 12
Tennis court playing area:
24m x 11m
Height: 8m

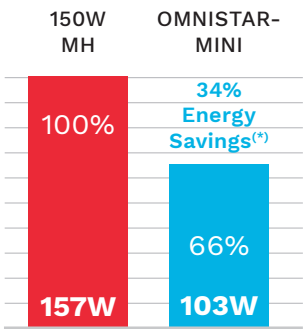
Comparing a 150W MH to an OMNISTAR-MINI recreational tennis court installation

The OMNISTAR-MINI provides a 34% energy saving compared to a 150W metal halide luminaire, while fully meeting the required light level requirements.



	Luminaire fitted with 150W Metal Halide Lamp	OMNISTAR-MINI 103W
Luminaire power consumption (W)	157	103
Average illuminance (lx)	91.33	101.98
Min/Avg uniformity	0.76	0.73
Power consumption per installation (W)	1,884	1,236

Energy Savings



^(*)Optic 1440, optimised design based on specifications

Detail on lighting design comparison available on request.

Ordering Information

Example:

OMNISTAR MC6436N1440A1Gs

ID	LED	Watt	LED Colour	Optic	Colour options	Surge Protection	Protector	Mounting
OMNISTAR MC	64	36	N Neutral White (4000K)	1110 1220 1440	A Aluminium finish (unpainted) L Pearl Light Grey (RAL 9022), Textured finish O Painted Other (RAL / Finish [Brilliant/Matt])	1 10kV	G Glass (IK07) P ⁽¹⁾ Polycarbonate (IK10)	s Stirrup mounted p Pole mounted
OMNISTAR MI	128 192	75 103						

⁽¹⁾ Suitable for Food & Beverage industry

Custom Options

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

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

2020-09

Copyright © BEKA Schröder (Pty) Ltd – 13 West View Road – Olifantsfontein (South Africa) • The information, descriptions and illustrations herein are of only an indicative nature. Due to advanced developments, we may be required to alter the characteristics of our products without notice. As these may present different characteristics according to the requirements of individual countries, we invite you to consult us.