BEKA Schréder

Experts in lightability™

LEDSTREAM

High-performing versatile LED floodlight

iTERRA · LENSO FLEX® 4 · BLAST FLEX™ 4

LOCALLY manufactured

LEDSTREAM

IP 66

IK 07

Up to 20kV

RoHS

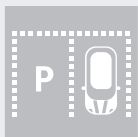## Versatile LED floodlighting solution

The LEDSTREAM has been designed to provide versatile application options, such as illumination, outdoor commercial lighting and general floodlighting. While not only offering maximum savings in energy and maintenance costs with a short payback time, the LEDSTREAM will provide the performance needed to illuminate your application.

The LEDSTREAM can withstand even the most corrosive environments with its marine grade aluminium and high ingress protection.

The LEDSTREAM guarantees the perfect lighting to enhance your application and to ensure safety and comfort. It offers a real alternative to luminaires equipped with traditional light sources, with the added advantages of an LED solution: low energy consumption, improved enhanced visibility with white light, limited maintenance, and longer life.

AREA	INDUSTRIAL HARBOUR	LOADING BAY	SECURITY LIGHTING
FAÇADE	SIGNAGE	BRIDGES	MULTI-PURPOSE HALLS

Key advantages

- Designed and manufactured in South Africa
- 5 year warranty (Terms and conditions apply)
- Designed to operate LED light sources of up to 46W 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)
- Efficient alternative to CFL, HPS and the latest metal halide sources
- Easy to install
- No lamp or component replacements for more than 10 years
- Various light distributions for customized projects, with efficiency and visual comfort
- Optional dimming
- Instant restrike
- Fused surge protection of 10kA/10kV
- Thermal feedback to preserve the lifetime in ambient temperature environments of more than 35˚C
- Circular economy 3-star rating

Characteristics

GENERAL INFORMATION

Recommended installation height	8m to 30m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262
Weight (kg)	3.4

HOUSING AND FINISH

Housing	Marine grade aluminium (EN 1706 AC-47300)
Optic	Acrylic PMMA
Protector	Impact-resistant clear glass
Housing finish	Black (RAL 9017), Textured finish
Tightness level	IP 66
Impact resistance	IK 07

ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	198-264V – 50Hz
Power factor	> 95% at full load
Surge protection	10kV
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 740)
Colour rendering index (CRI)	≥ 70 (Neutral white 740)

OPERATING CONDITIONS

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

(*) 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 - L95B10

LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	80,000h ≤10% failure rate
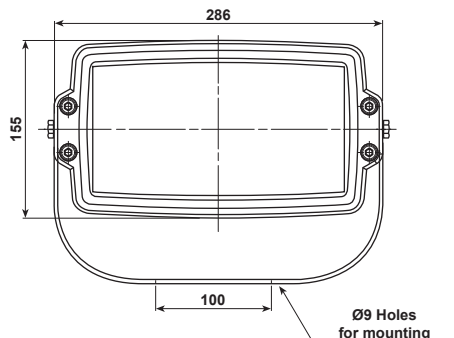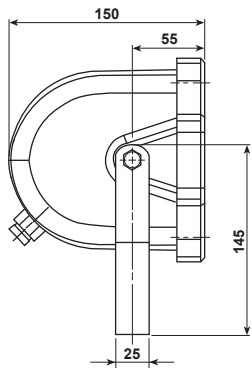
For options and accessories, please turn to page 7.

Dimensions in mm

Performance

Luminaire	Number of LEDs	Driver Current (mA)	Line Current (A)	Nominal flux (lm) (*) Typical	Power consumption (W) Typical	Nominal efficacy (lm/W) Typical	Luminaire output flux (lm) Typical	Luminaire efficacy (lm/W) Typical	Photometry (**)
LEDSTREAM	10	700	0.1	3887	24	162	3265	136	LENSO FLEX® 4
LEDSTREAM	20	700	0.2	7774	46	169	6531	142	BLAST FLEX™ 4

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

(*) 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.

Key Features

The LEDSTREAM can withstand even the most corrosive environments with its marine grade aluminium and high ingress protection.
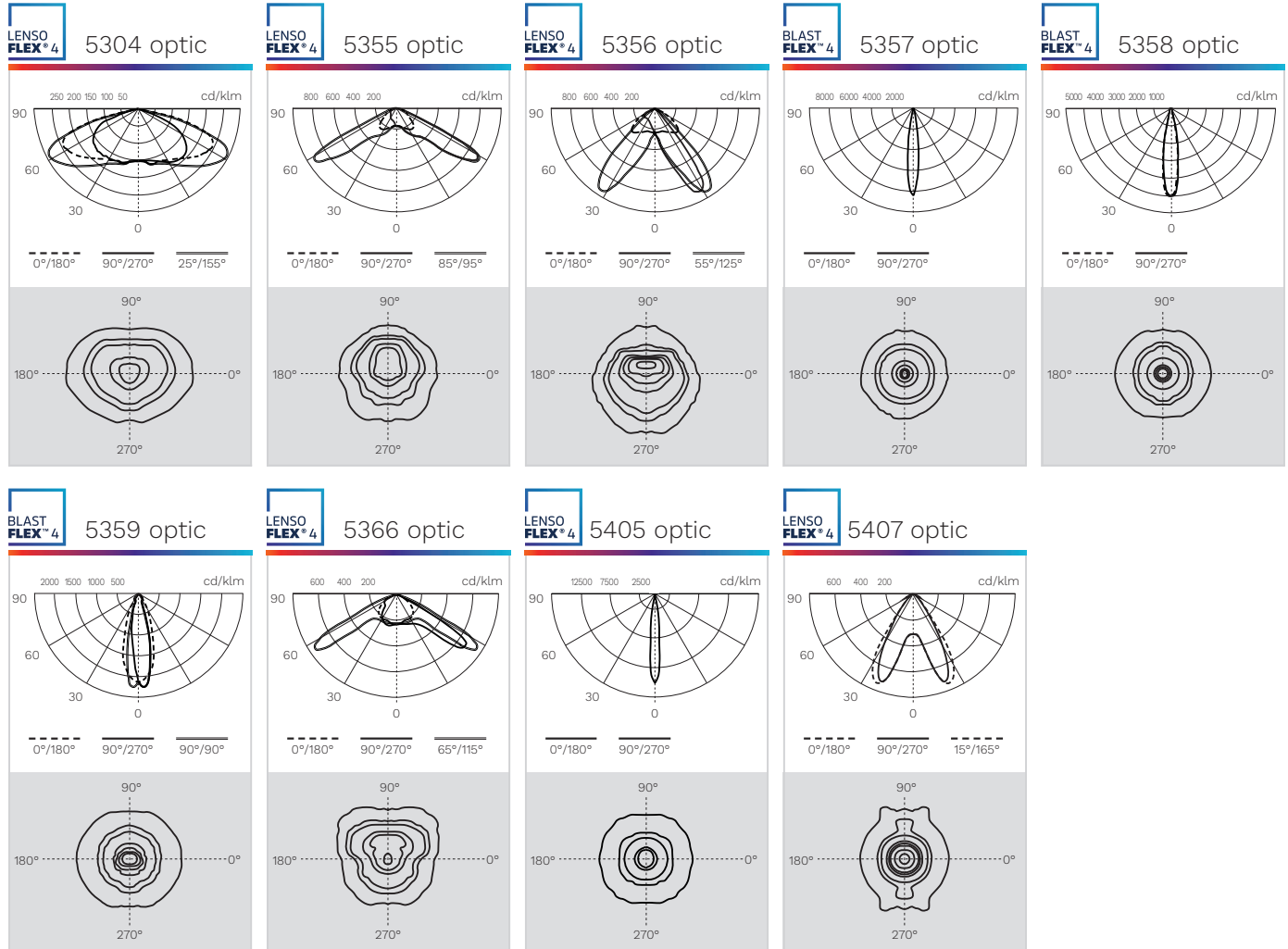

Rake angle adjustable on site

Construction Details

The luminaire consists of a marine grade, high-pressure die-cast aluminium housing with a high impact resistant Glass sealed to IP 66. Supplied complete with an adjustable stainless steel (304) stirrup mounting. The stirrup is manufactured from 4mm x 80mm stainless steel. Holes are provided for single or double bolt mounting.

Light Distributions

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

LENSO FLEX®4 5304 optic	LENSO FLEX®4 5355 optic	LENSO FLEX®4 5356 optic	BLAST FLEX™4 5357 optic	BLAST FLEX™4 5358 optic

BLAST FLEX™4 5359 optic	LENSO FLEX®4 5366 optic	LENSO FLEX®4 5405 optic	LENSO FLEX®4 5407 optic

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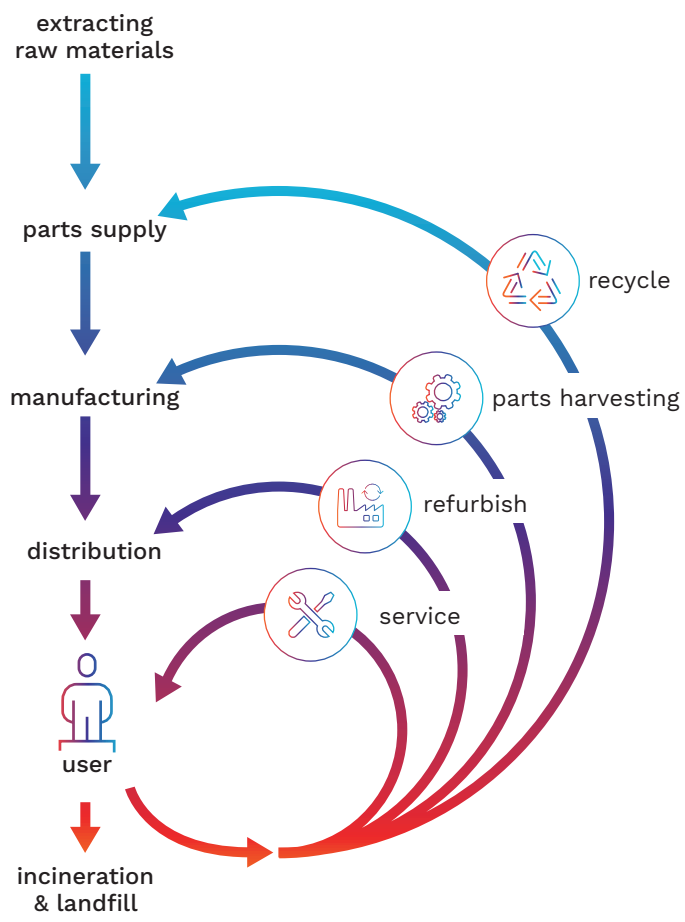
BLAST FLEX™4 BlastFlex™4
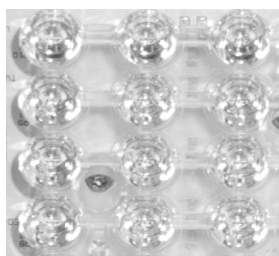
Using collimators made of high-transmission PMMA, the BlastFlex™4 photometric engine offers the highest efficiency for directional beams dedicated to specific applications in architectural and sports lighting. The ability to control the light with the highest accuracy reduces light spill in the surroundings,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

CIRCLELIGHT

Circularity concept

- extracting raw materials
- parts supply
- manufacturing
- distribution
- user
- incineration & landfill

- recycle
- parts harvesting
- refurbish
- service

LEDSTREAM

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:

LEDSTREAM2046N5366A1G

ID	LED	Watt	LED Colour	Optic[1]	Colour	Surge Protection	Protector
LEDSTREAM	10	24	**N**	5304	**A**	**1**	**G**
	20	46	Neutral white	5355	Aluminium finish	10kV	Glass clear
			(4000K)	5356	(unpainted)	**2**	
				5357	**B**	20kV	
				5358	Black		
				5359	(RAL 9017),		
				5366	Textured finish		
				5405	**L**		
				5407	Pearl Light Grey		
					(RAL 9022),		
					Textured finish		
					W		
					White		
					(RAL 9003),		
					Textured finish		
					O		
					Painted Other		
					(RAL / Finish		
					[Brilliant/Matt])		

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

Custom Options

Switching/Dimming Control	Integrated Schréder ITERRA
	DALI Dim
	1-10V
	DMX
Correlated colour temperature	3000K (Warm white)
	5700K (Cool white)
	RGBW (Red, Green, Blue, White)

BEKA Schréder

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SABS
ISO 9001

www.beka-schreder.co.za

Designed and manufactured by BEKA Schréder (Pty) Ltd

LOCALLY manufactured