

LED BEAM

Linear LED spotlight & wallwasher



LOCALLY
manufactured

LED BEAM



A linear, highly versatile and robust LED floodlight

The LEDBEAM is a linear LED floodlight, which has been robustly constructed and offers a high optical performance. Available in different lengths and wattages, the LEDBEAM is suitable for use in various illumination and industrial environments, which include façades, signage, bridges, assembly lines, underground haulage or any other application that requires a linear and robust luminaire.

It can be mounted according to your needs, and the high quality of light with its DC input voltages makes it possible to use control options like DMX and DALI. The choice of LED colours is unlimited due to the RGBW option, enabling you to bring your project to life.



FAÇADE



SIGNAGE



BRIDGE



HAULAGE
LIGHTING



ASSEMBLY LINE

Key advantages

- Designed and manufactured in South Africa
- Designed to operate LED light sources of up to 72W in an ambient temperature (Ta) environment of up to 40°C, without reducing the useful lifetime of 100 000 hours, at a lumen depreciation of not more than 30% (L70B10)
- Available in module lengths of: 330mm/630mm/930mm/1230mm and 1830mm
- Fully dimmable 0%-100%
- CRI for white light ≥ 70
- Designed for ambient temperature rating (Ta) of 40°C
- Available in different beam distributions
- Corrosion-resistant design
- Available with many accessories
- Supplied with 3m cable
- 3 year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Driver included	No
ROHS compliant	Yes
Testing standard	SANS 60598
Weight (kg)	Up to 2.8

HOUSING AND FINISH

Body	Aluminium extrusion
End-caps	Die-cast aluminium (6063T6)
Optic	Acrylic PMMA
Protector	PMMA ^(*)
Tightness level	IP 66
Impact resistance	Up to IK 10

^(*) Suitable for Food & Beverage industry

ELECTRICAL INFORMATION

Electrical class	EU class III
Nominal voltage	24V DC
Power factor	> 95% at full load
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	DMX DALI

OPTICAL INFORMATION

LED colour temperature	5000K (Neutral white 750)
Colour rendering index (CRI)	≥ 70 (Neutral white 750)
Standard optic	1300

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C up to +40°C
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LIFETIME OF THE LEDS @ TQ 25°C

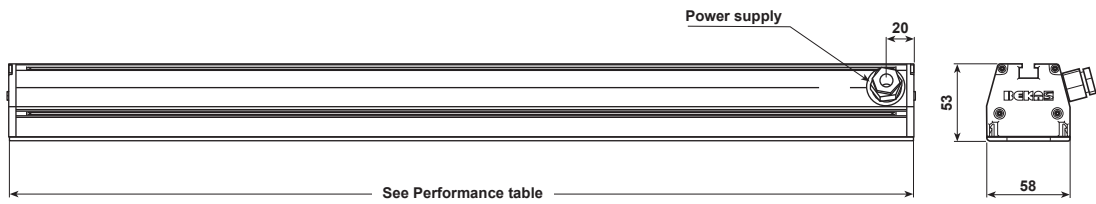
For all versions	100,000h - L70B10
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For options and accessories, please turn to page 7.

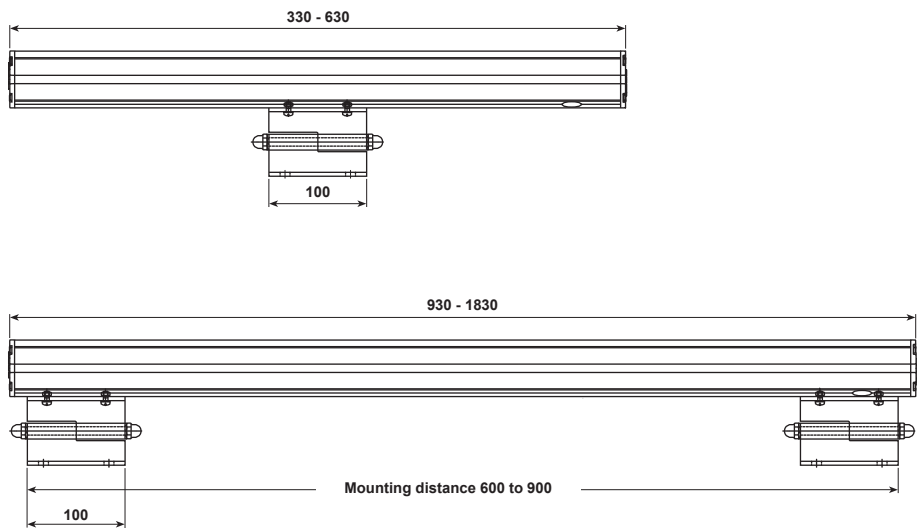


Rea Vaya BRT Bridge over the M1 highway, Johannesburg

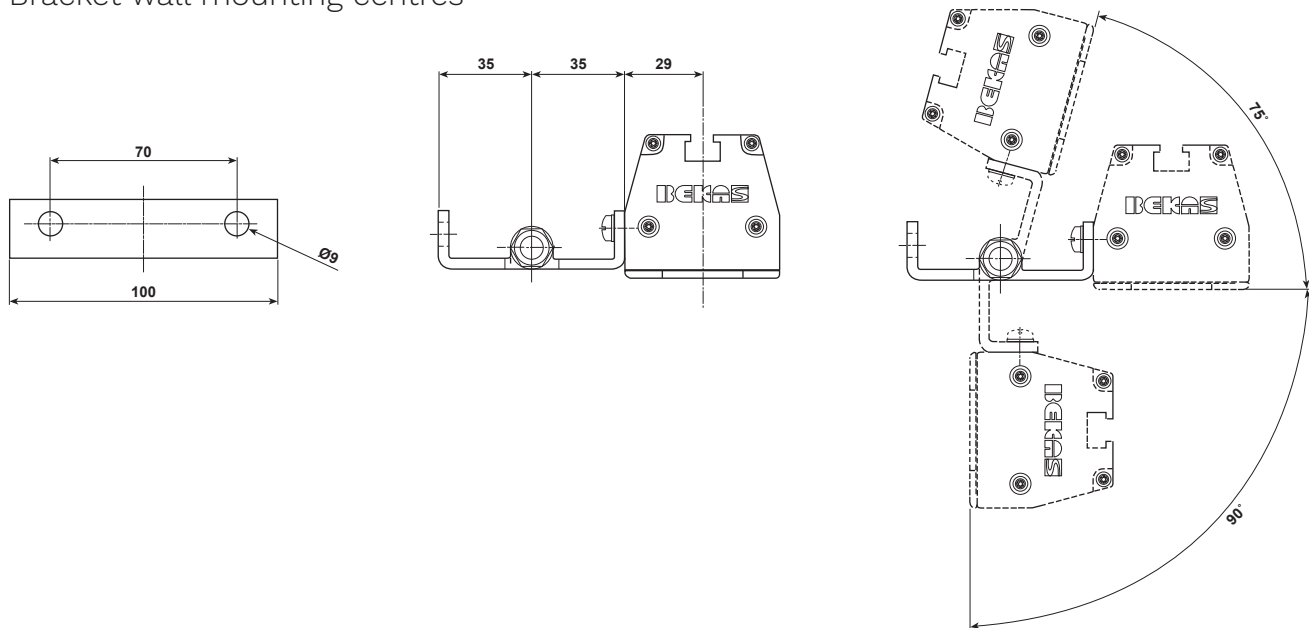
Dimensions in mm



Typical bracket mounting



Bracket wall mounting centres



Performance

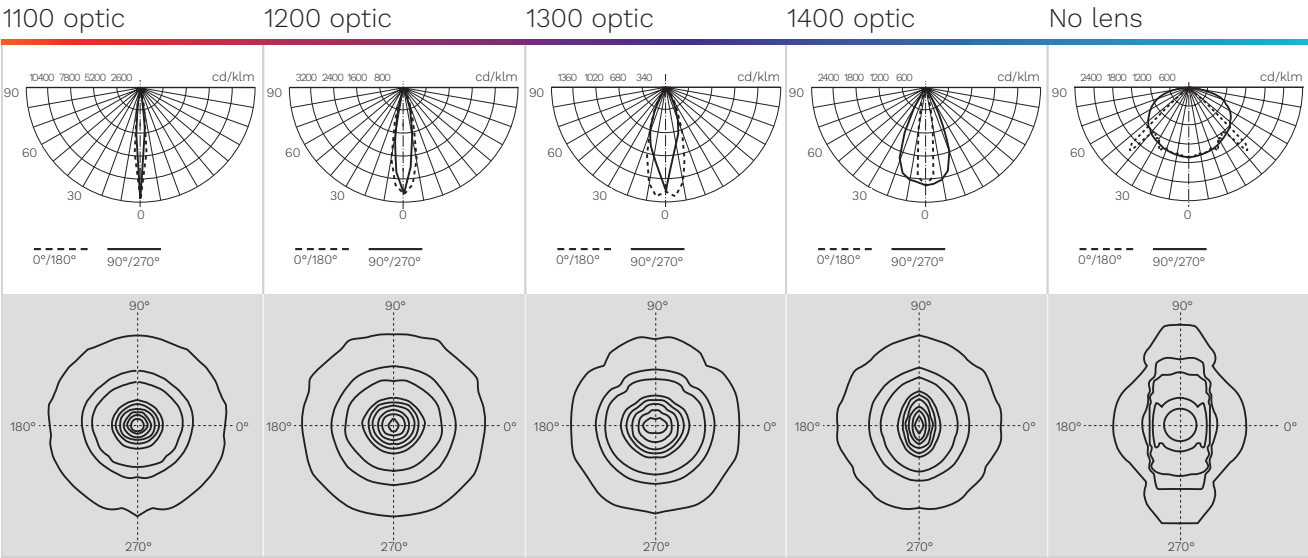


			Nominal flux (lm) ^(*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Photometry
Luminaire	Size (mm)	Supply Voltage	Typical	Typical	Typical	Typical	
LEDBEAM	330	24V DC	1575	12	131	1103	1100 1200 1300 1400 No lens
	630	24V DC	3150	24	131	2205	
	930	24V DC	4725	36	131	3308	
	1230	24V DC	6300	48	131	4410	
	1830	24V DC	9450	72	131	6615	

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.

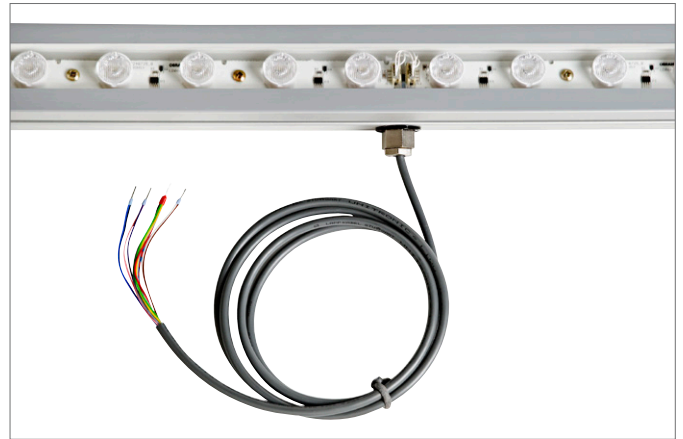
Light Distributions



Key Features



The aluminium extrusion creates the best thermal environment for LEDs.



The LEDBEAM is supplied prewired.



The luminaire housing is robustly constructed, weather proof, hail proof, corrosion proof and vandal resistant.



Cable entry is positioned on the left, other positions are available as an option.

Construction Details

The luminaire consists of an aluminium extrusion body and die-cast aluminium end-caps creating the best thermal environment for LEDs. Cable entry is available in different positions. The luminaire bears the SANS 60598-2-5 safety mark. It has an ingress protection rating of IP 66.

The luminaire housing is robustly constructed, weather proof, hail proof, corrosion proof and vandal resistant. It is manufactured from corrosion-resistant aluminium. A silicon seal, between the flush-mounted PMMA front cover and housing, ensures the sealing of the luminaire. The gasket sealing is made to match the extended useful lifetime of the LEDs (100 000 hours, L70).

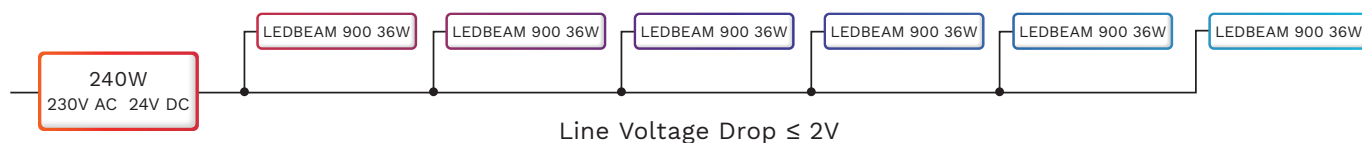
The LEDs are effective high-power LEDs, 5000K at a colour rendering index ≥ 70 .

The incorporated lens system is available in narrow beam, medium beam, wide beam, extra wide beam and elliptical beam.

The LED drivers are incorporated in the luminaire housing and powered with 24V DC.

An external power supply for operation on a 230V $\pm 10\%$ 50Hz single-phase system located in an external control gear enclosure can be ordered separately. Optional DMX or DALI control can be incorporated into this external control gear enclosure.

Typical Installation



Ordering Information

Example:

LEDBEAM 1200/WB/NW /A24V55WCL 3M/MB/PO

ID	Length	Optic ⁽¹⁾	LED Colour	Protector	Watt / 24V DC	Cable Entry	Other Options
LEDBEAM	300	X	NW	A⁽²⁾	24V	CL	3M
	330mm	No optic	Neutral White	Clear acrylic	12W	Cable Entry	3m / 6m cable length
	600	NB	(5000K)		24W	Left	
	630mm	1100 optic	RGB⁽¹⁾		36W		MB
	900	(Narrow beam)	Red / Green / Blue		48W		Mounting bracket
	930mm	MB	colour in one unit		72W		
	1200	1200 optic					PO
	1230mm	(Medium beam)					Painted other
	1800	WB					
	1830mm	1300 optic					
		(Wide beam)					
		ED					
		1400 optic					
		(Elliptical wide beam)					

⁽¹⁾ Only available on the 600, 1200 & 1800 versions

⁽²⁾ Suitable for Food & Beverage industry

Accessories

External control box	Suitable for single phase power supply (see power supply options below)
Power supply	230V AC / 24V DC
Dimming control	DMX control gear
	DALI control gear

Custom Options

Cable entry	Centre
	Right
	3000K (Warm white 830)
Correlated colour temperature	Red
	Green
	Blue
	RGBW (red, green, blue, white)
Protector	Opaque

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

2023-04

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