

# BEKABULK

Industrial LED bulkhead



**LOCALLY**  
manufactured

# BEKABULK



IP 65



BEKABULK



BEKABULK with wireguard



BEKABULK with eyelid

## Robust and efficient LED bulkhead for industrial applications

The BEKABULK bulkhead luminaire range has been designed for industrial and public lighting applications where efficiency, vandal resistance and mechanical reliability are essential.

It is also designed and tested to operate in Zone 2 and 21/22 applications, which makes it the best solution for explosive areas and illuminating mine underground haulage routes.



PUBLIC BUILDING



SERVICE STATION



SECURITY LIGHTING



INDUSTRIAL HARBOUR



HAULAGE LIGHTING



INDUSTRIAL HALL



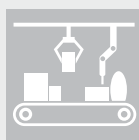
WAREHOUSE



LOADING BAY



MANUFACTURING



ASSEMBLY LINE

## Key advantages

- Designed and manufactured in South Africa
- Designed to operate LED light sources of 19W without reducing the useful lifetime of up to 50 000 hours, at a lumen depreciation of not more than 20% (L80B10)
- Operating temperature (Ta): -20°C to +40°C
- Effective high-power LEDs, 4000K (Neutral white 740) at a colour rendering index >70
- Corrosion-resistant high-pressure die-cast aluminium
- Injection-moulded high-impact acrylic diffuser
- Powerful lumen package
- Available in Emergency and Zone 2 and 21/22 versions
- 5-year warranty (Terms and conditions apply)

# Characteristics

## GENERAL INFORMATION

Recommended installation height	3m to 6m
FutureProof	Easy replacement of the photometric engine and electronic assembly on-site
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262, SANS 475
Weight (kg)	Standard version: 2 Emergency version: 2.2

## HOUSING AND FINISH

Housing	Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300)
Diffusor	Injection-moulded high-impact acrylic diffuser <sup>(*)</sup>
Housing finish	Telegrey 1 (RAL 7045), Textured finish
Tightness level	IP 65
Impact resistance	IK 08
Maintenance	Easily accessible

<sup>(\*)</sup> Suitable for Food & Beverage industry

## ELECTRICAL INFORMATION

Electrical class	EU class I or II
Nominal voltage	230V – 50Hz
Power factor	> 90% at full load
Surge protection	10kV / 10kA (optional)
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)	-20°C up to +40°C <sup>(*)</sup>
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<sup>(\*)</sup> Depending on the luminaire fixation and driving current. For more details, please contact us.

## LIFETIME OF THE LEDS @ TQ 25°C

For all versions	50,000h - L80B10
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## LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	100,000h ≤10% failure rate
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For options and accessories, please turn to page 6.

# Construction Details

The luminaire consists of a high-pressure die-cast aluminium body and a structured clear high impact acrylic diffuser. It is rectangular in shape and is designed to operate LEDs up to 19W.

The body is manufactured from high-pressure die-cast aluminium, powder coated in the colour specified for added protection. It is suitable for surface mounting and allows for surface conduits to enter.

A silicone sponge gasket is fitted into a groove in the body. Mounting holes, complete with nylon washers, can be provided on request. It is supplied with mounting lugs.

The diffuser is manufactured from injection-moulded, high-impact, non-discolouring acrylic. It is structured on the inside and smooth on the outside. The diffuser is held to the body by four captive stainless steel Allen head screws. A tongue arrangement provided on the diffuser ensures the integrity of the IP rating.

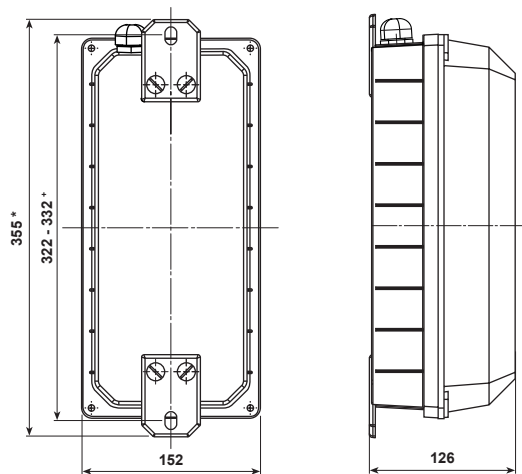
The geartray is manufactured from 1.6mm galvanised and passivated steel, powder coated white to prevent corrosion and improve reflectance. It can be removed by merely loosening two screws.

All electrical components and lamp holders are mounted on the geartray. It is suitable for operation with the specified rating of the lamp on a 230V +3%/-10% 50Hz single phase system.

All control gear components are removable and bear the relevant SABS mark. All screws, bolts and metal parts are stainless steel or non-corrosive material. Mains connections are by means of a suitable screw terminal block with a wire clamping contact.

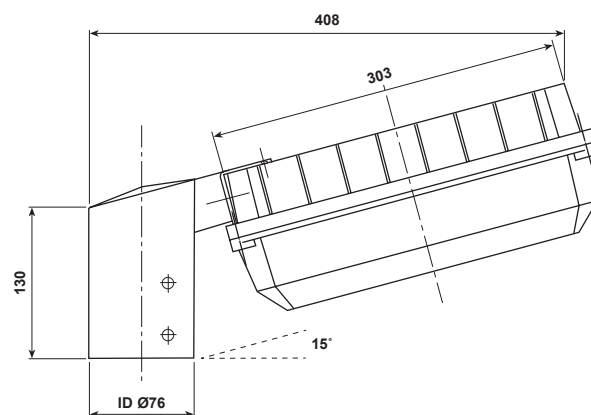
# Dimensions in mm

Rear view



- \* Overall dimension including mounting lugs
- + Distance of centre hole

Bottom entry mounting



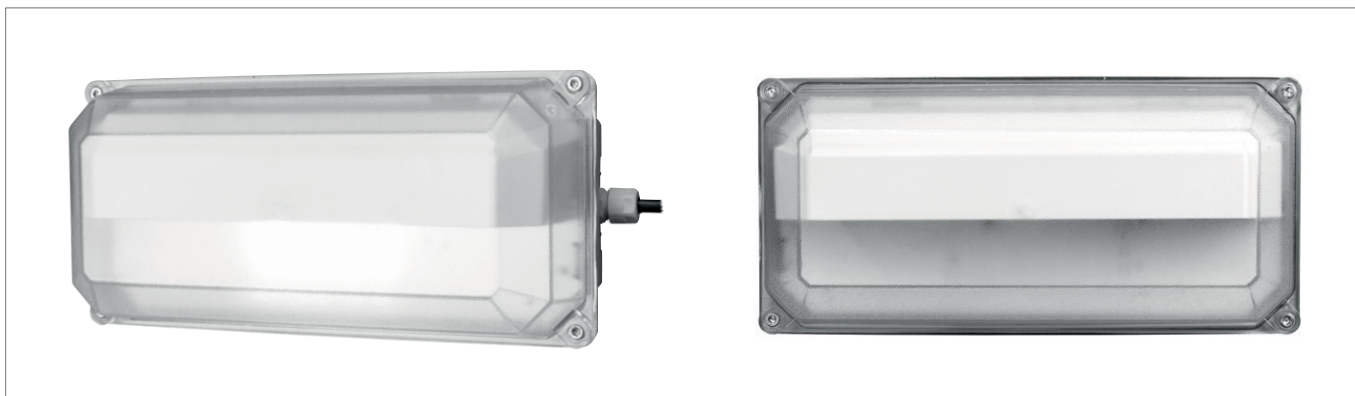
## Key Features



Optional wireguard for extra protection in industrial areas



The optional pole mounted version allows for flexibility in different applications



Optional eyelid for glare reduction

# Performance

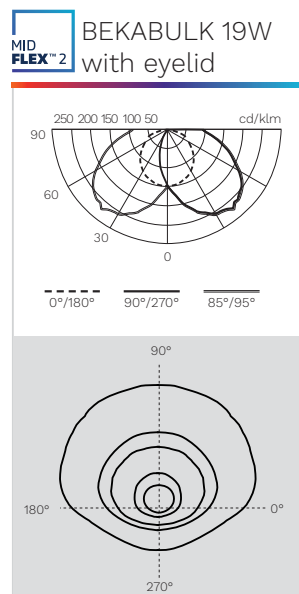
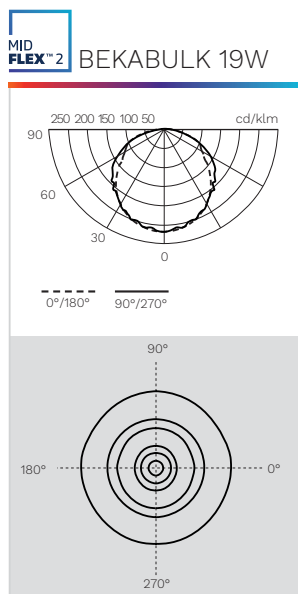


				Nominal flux (lm) <sup>(*)</sup>	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)
Luminaire	Number of LEDs	Driver Cur- rent (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical
BEKABULK	40	350	0.08	3100	19	163	2530	133
BEKABULK (Emergency version)	40	350	0.08	3100 / 1240 (EM)	19 / 9 (EM)	163	2530	133

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

(\*) 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



# Ordering Information

Example:

BEKABULK LED19NA1AμELHCWGhE1Z21/22

BEKABULK LED	19	N Neutral White (4000K)	A Aluminium finish (unpainted) G Telegrey 1 (RAL 7045), Textured finish O Painted Other (RAL / Finish [Brilliant/Matt])	1 10kV	A Acrylic P Polycarbonate	μ Mounting lugs (unpainted) mp Mounting lugs (painted) BE Bottom entry pole mounted	EL Eyelid  HC Helicoils  WGh Wireguard  WGs Wireguard stainless steel  VR Vandal-resistant screws  E1 Emergency version (1 hour)  Z2 Zone 2  Z21/22 Zone 21/22

## Custom Options

Extras	Pre-drilled holes for surface conduit
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# BEKA Schröder

Experts in lightability™

**SABS**  
ISO 9001



[www.beka-schreder.co.za](http://www.beka-schreder.co.za)

Designed and manufactured by BEKA Schröder (Pty) Ltd



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