

SERIES 40

Decorative LED bulkhead



Food & Beverage



LOCALLY
manufactured

SERIES 40



Standard version
(prismatic diffuser)



Optional opaque diffuser version

Directional bulkhead luminaire range

The SERIES 40 bulkhead is favoured in our range for the reduction in upward light and low glare because of its integrated eyelid. This is an ideal solution to beautify buildings and its surrounds to provide general area lighting for residential or commercial developments, retail areas, shopping malls and public buildings.

The optional battery back-up version is the perfect solution for loadshedding. It provides four hours of back up lighting, and utilizes a fast-charging inverter, hence it charges up in time for the next loadshedding cycle.

High-quality materials are used to ensure a high ingress protection. The high-impact acrylic diffuser withstands our harsh environmental African conditions. This, together with the long lifetime of the LEDs, and an easy installation procedure, makes the BEKA SERIES 40 the bulkhead of choice.



PUBLIC
BUILDING



SHOPPING
CENTRE



COMMERCIAL
BUILDING



SPORT AREA



SECURITY
LIGHTING

Key advantages

- Designed and manufactured in South Africa
- Optional battery back-up for loadshedding available
- Available with wireless control and dimming system, Schröder ITERRA
- Available with integrated movement sensor
- Operating temperature (Ta): -20°C to +35°C
- Minimum 50,000hrs useful lifetime (L70B10)
- Effective high-power LED, 4000K at a colour rendering index >80
- Ingress protection - IP 65
- Marine grade high-pressure die-cast aluminium base
- High-impact acrylic diffuser
- Reduced light pollution
- 3-year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Recommended installation height	2m to 4m
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)
Diffuser	High-impact acrylic ^(*)
Housing finish	Black (RAL 9017), Textured finish
Tightness level	IP 65
Maintenance	Easily accessible

(*) Suitable for Food & Beverage industry

DIMENSIONS AND MOUNTING

AxBxC (mm)	341x195x105
Weight (kg)	Up to 2.5

ELECTRICAL INFORMATION

Electrical class	EU class I or II
Nominal voltage	230V +3%/-10% - 50Hz
Power factor	> 90% 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

OPTICAL INFORMATION

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

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C to +35°C
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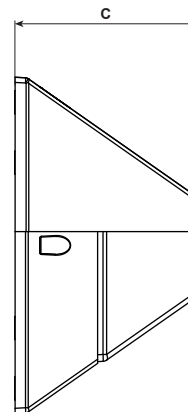
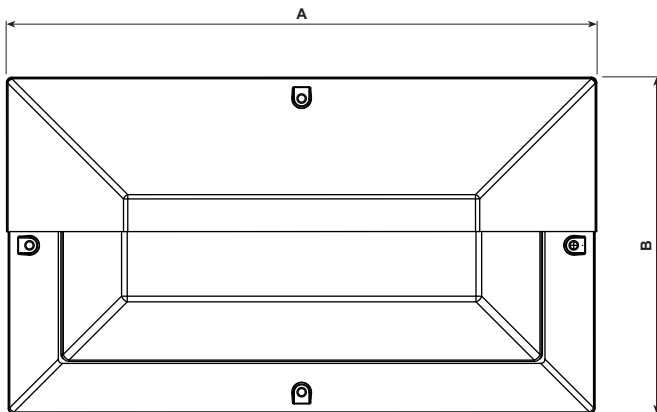
LIFETIME OF THE LEDS @ TQ 25°C

For all versions	50,000h - L70B10
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LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	50,000h ≤10% failure rate
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For options and accessories, please turn to page 6.



Performance



		Nominal flux (lm) ^(*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)
Luminaire	Line Current (A)	Typical	Typical	Typical	Typical	Typical
SERIES 40	0.03	1128	7	161	936	134
SERIES 40 Battery back-up version	0.03	1128 / 356 ^(**)	7	161	936	134

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.

^(**) Reduced output during battery back-up mode. Battery back-up of 4 hours.

Construction Details

The luminaire consists of a marine grade high-pressure die-cast aluminium (EN 1706 AC-44300) base and eyelid trim ring and clear prismatic or opal high-impact acrylic diffuser. It is designed to operate LEDs of 1128lm (7W).

The luminaire bears the SANS 60598-2-1 safety mark.

IP 65 in compliance with SANS 60598-2-1: The IP rating is certified by an SABS test report.

All base castings are finished both outside and inside in white epoxy powder coating for added protection and reflectivity. It is simple to install due to four mounting holes provided outside the optical compartment through lugs that form part of the base casting. The incorporated reflector is manufactured from 99.98% super pure deep anodized aluminium for optimal downward light output. The trim ring casting is mounted onto the base casting by stainless steel M5 Allen head screws, located outside the optical compartment.

The fixing holes can be supplied with stainless steel helicoil inserts on request. A clear prismatic or opal non-discolouring high-impact acrylic injection moulded diffuser is used throughout the range. It offers excellent vandal resistance, is highly translucent and will not discolour even when subjected to the harshest UV environments. A silicon sponge gasket is fitted into a special groove in the diffuser to prevent damage to the gasket during installation. It fits snugly over a tongue provided on the base casting, thus achieving the certified ingress protection rating of IP 65.

The eyelid trim ring casting is finished in a special multi-stage epoxy powder surface coating.

All external screws, bolts and metals are stainless steel or of non-corrosive material. Mains connections are by means of a suitable screw terminal block with a wire clamping contact. The power factor is rated at ≥0,9.

Key Features

Four fixing holes to hold the trim ring casting to the base casting by stainless steel M5 Allen head screws, located outside the optical compartment.

Base casting is manufactured from marine grade high-pressure die-cast aluminium, finished both outside and inside in white epoxy powder coating for added protection and reflectivity.

Four mounting holes provided outside the optical compartment ensure the integrity of the certified IP rating. The mounting holes are raised 2mm from the base, preventing rainwater from running over the luminaire surface, and are also offset from the main axis in order to prevent accidental damage to conduits during the installation process.

It is designed to operate LEDs of up to 7W.

99.98% super pure deep anodized aluminium reflector to significantly increase light output ratio and therefore providing a higher energy saving.

Tongue provided on the base casting fits into the silicon sponge gasket seated in the diffuser, thus achieving SABS certified IP 65 protection.

Optional helicoil inserts for corrosion-resistant applications.



Different housing colours possible



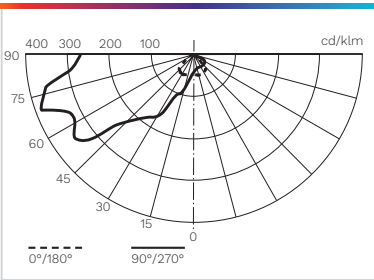
Intergraded eyelid to prevent light light pollution



Opaque diffuser for reduced glare

Light Distribution

SERIES 40 7W



Ordering Information

Example:

SERIES 40C BLK NW 7W HVBB

ID	Protector	Colour options	LED colour	Watt	Other options
SERIES 40	C Clear Q Opaque	BLK Black (RAL 9017), Textured finish WHT White (RAL 9016), Textured finish SIL Pearl Light Grey (RAL 9022), Textured finish P/O Painted Other (RAL / Finish [Brilliant/Matt])	NW Neutral White (4000K)	7W	HC Helicoil VR Vandal-resistant screws HV Helicoil & vandal-resistant screws BB Battery back-up version (4 hours)

Custom Options

Correlated colour temperature	3000K (Warm white 830)
Switching/Dimming Control	Integrated movement sensor Integrated Schröder ITERRA
Emergency	Emergency version 3 hours maintained
Extras	Adaptor ring for surface wiring

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

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