

SEMITA

LED bollard



LOCALLY
manufactured

SEMITA



IP 66

IK 07



Bollard version



Wall-mount version

Aesthetical and glare free

The SEMITA is an aesthetical and glare-free bollard which creates a soft yet direct illumination in your application, providing an effective lighting solution for urban spaces, such as pedestrian areas, parks, walkways, car parks and bike paths.

The SEMITA bollard is a robust luminaire and consists of a head assembly and a pole base assembly, available either in corrosion-free glass filament wound GRP pole or aluminium.

Various colour combinations are possible to enable you to create a truly unique design for your application.

The decorative wall-mount version offers a matching bulkhead option to further enhance your environment.

Bring your urban environment to life and create a visual path with the SEMITA.

Key advantages

- Designed and manufactured in South Africa
- Ta of up to 45°C
- 3-year warranty ^(*)
- Various colour combinations possible
- Wall-mount version to complement the range
- Highly efficient LED light source
- Energy saving and low maintenance applications
- Robust and vandal resistant
- Easy to install
- Marine grade high-pressure die-cast aluminium head (EN 1706 AC-44300), sealed unit with IP 66 rated gear and optical compartment
- Surge protection 10kV/10kA (optional)
- Head sealed from pole base
- Corrosion-resistant GRP pole

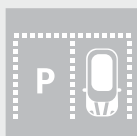
^(*) Terms and conditions apply



BIKE & PEDESTRIAN PATH



SQUARES & PEDESTRIAN AREA



CAR PARK



SHOPPING CENTRE



PUBLIC BUILDING



SPORT AREA



SERVICE STATION

Characteristics

GENERAL INFORMATION

Recommended bollard spacing	Up to 12m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262

HOUSING AND FINISH

Head	Marine grade high-pressure die-cast aluminium head (EN 1706 AC-44300)
Pole	Buried: Glass filament wound GRP Surface mount: Extruded aluminium (optional)
Protector	Polycarbonate
Housing finish	Refer to Standard Colours table
Tightness level	IP 66
Impact resistance	IK 07

DIMENSIONS AND MOUNTING

Weight (kg)	Buried version - GRP pole: 9
	Surface mount version - aluminium pole: 6.8
	Wall-mount version: 2.2
Mounting	Buried
	Surface mount (optional)

ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	198V-277V - 50Hz
Power factor	> 95% 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 840)
Colour rendering index (CRI)	≥ 80 (Neutral white 840)
Upward Light Output Ratio (ULOR)	≤ 6%

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C up to +45°C
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LIFETIME OF THE LEDS @ TQ 25°C

For all versions	98,000h - 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 8.

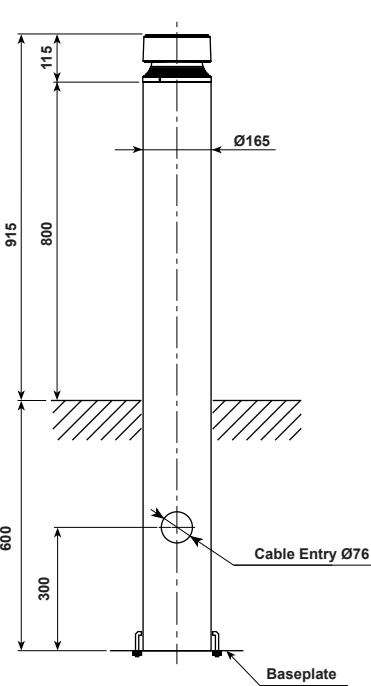
Standard Colours

Head (*)	Pole - GRP version	Pole - Aluminium version (*)
Black - RAL 9017	Black - K200, Brilliant finish	Black - RAL 9017
Pearl Light Grey - RAL 9022	Pearl Light Grey - K9186, Brilliant finish	Pearl Light Grey - RAL 9022
White - RAL 9016	White - K100, Brilliant finish	White - RAL 9016

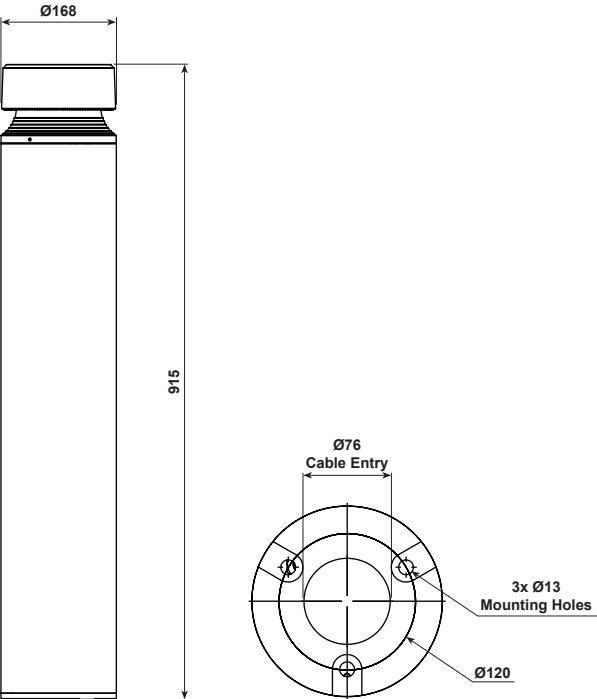
(*) Available in Brilliant or Textured finish. Other colours available on request

Dimensions in mm

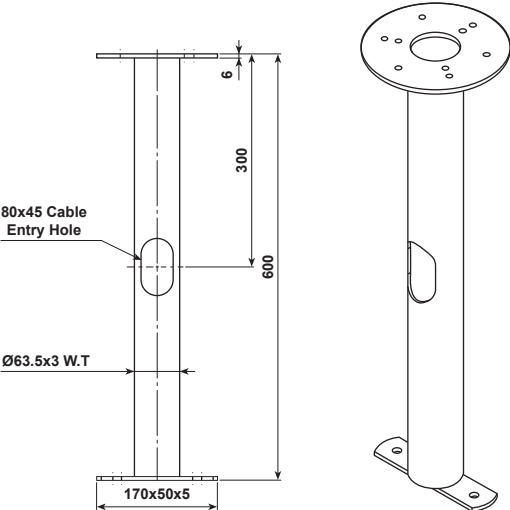
Buried version



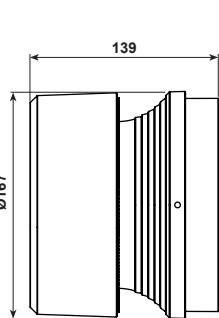
Surface mount version



Stubby (Accessory)



Wall-mount version



Key Features



Highly efficient LED light source and limited spill light emitted in upward direction



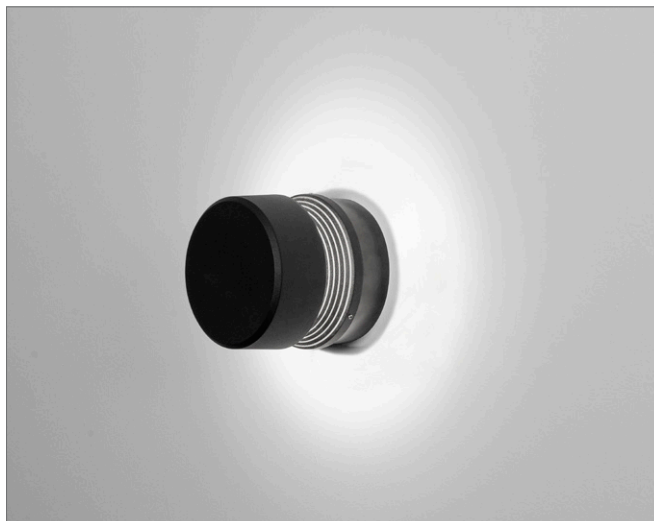
Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300) head



Various colour combinations and options available



The decorative wall-mount version offers a matching bulkhead option to further enhance your environment



The halo lighting effect creates a beautiful ambiance for your installation



Brilliant finish with GRP pole



Textured finish with aluminium pole



The optional stainless steel sleeve protector protects the GRP pole from lawnmowers and trimmers



Construction Details

The SEMITA bollard luminaire has been designed to provide decorative, as well as functional lighting which can be used in a wide spectrum of applications. This includes orientation lighting to light up pathways and roads, as well as decorative lighting to enhance architecture and landscapes.

The SEMITA consists of a high-pressure die-cast aluminium head with an integrated polycarbonate lens which can be mounted on a GRP pole or an aluminium extruded pole. The head can also be mounted vertically against a wall to create a decorative halo effect. The head assembly is sealed to IP 66 and contains the light source and the control gear, preventing dust, water and insect ingress. The unit can easily be upgraded to the latest technology.

The optical system, in conjunction with the diffuser, provides highly efficient and low-level lighting with maximum glare control with limited spill light being emitted above the horizon. The unit can be ordered in various colours and textures to suit any environment.

The LEDs are designed for ambient temperatures up to 45°C, resulting in a useful lifetime of 98,000 hours (L70B10). The LEDs are effective mid-power LEDs, 4000K at a colour rendering index ≥ 80 .

The unit is designed to operate reliably up to 21W with a power factor $\geq 0,95$

Performance



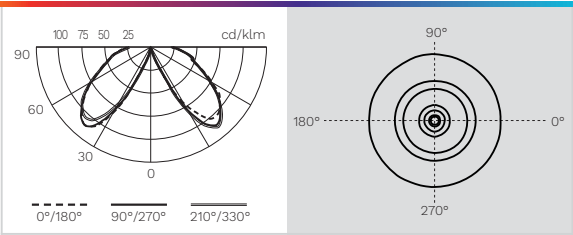
			Nominal flux (lm) ⁽¹⁾	Power consumption (W)	Nominal efficacy (lm/W)
Luminaire	Driver Current (mA)	Line Current (A)	Typical	Typical	Typical
SEMATA	500	0.09	3020	21	144

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

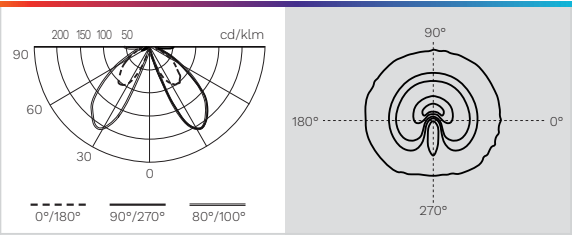
⁽¹⁾ The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

Light Distribution

SEMATA



SEMATA - Asymmetrical



Artist impression of the effect of the wall-mount version at night

Ordering Information

Example:

SEMITA 21 N 1 BWB B BP IP									
ID	Watt	LED Colour	Surge Protection	Colour Head	Colour Reflector	Colour Bollard Pole	Finish	Installation Options	Other Options
SEMITA	21	N Neutral White (4000K)	0 No surge protection 1 10kV	B Black (RAL9017) W White (RAL9016) S Pearl Light Grey (RAL9022) P/O Painted Other (refer to BEKAPOLE brochure)	B Black (RAL9017) W White (RAL9016) S Pearl Light Grey (RAL9022) P/O Painted Other (refer to BEKAPOLE brochure)	B Black (RAL9017) W White (RAL9016) S Pearl Light Grey (RAL9022) P/O Painted Other (refer to BEKAPOLE brochure)	B Brilliant finish (GRP pole) T Textured finish (Aluminium pole)	BN Buried, no baseplate BP Buried, with baseplate SM Surface mounted (Aluminium pole) WL Wall mounted	IP Complete with IP connector SL ⁽¹⁾ Sleeve protector

⁽¹⁾ GRP pole (buried) version only

Custom Options

Light distribution	Asymmetrical
Correlated colour temperature	3000K (Warm white 830)
Surge protection	20kV
Pole design	Decorative print

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

2023-12

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