

ZELA

Comfort meets performance and efficiency



ZELA



IP 66

Up to
IK 10



Symmetrical



Asymmetrical

The ZELA provides a cost-effective indirect lighting solution for the creation of ambiance.

The ZELA is characterised by its distinct flat and conical diffuser, made possible by incorporating LED technology.

This compactness is coupled with a careful design that harmoniously integrates both functionality and finish. For instance, the fins on the base section add a certain elegance by continuing the flow of the pole.

The ZELA emits a pleasant, low glare light, making it perfect for architectural spaces. Available with symmetrical or asymmetrical light distributions and various lumen packages, the ZELA luminaire offers flexible and cost-effective indirect lighting for the creation of ambiance.



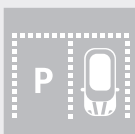
URBAN &
RESIDENTIAL
STREETS



BIKE &
PEDESTRIAN
PATHS



SQUARES &
PEDESTRIAN
AREAS



CAR PARKS



RAILWAY
STATIONS &
METROS



SPORT AREAS

Key advantages

- Designed and manufactured in South Africa
- Cost-effective lighting solution for creation of ambiance
- Elegant design for low height installation
- IP 66 tightness level for long lasting performance
- Surge protection 10kV/10kA
- Designed to replace HID post top luminaires (up to 100W HPS)
- Provides energy savings of up to 70%
- Low glare lighting
- Available in a Solar version
- 5 year warranty ^(*)

^(*) Terms and conditions apply

Characteristics

GENERAL INFORMATION

Recommended installation height	3m to 6m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262

HOUSING AND FINISH

Housing	Top cover - Acrylonitrile styrene acrylate (ASA)
	Base and gear plate - Marine grade high-pressure die-cast aluminium (EN 1706 AC-44300)
Protector	High-impact acrylic
	Polycarbonate (optional)
Housing finish	Light Grey (RAL 7047), Textured finish
Tightness level	IP 66
Impact resistance	High-impact acrylic: IK 08
	Polycarbonate: IK 10

DIMENSIONS AND MOUNTING

AxB (mm)	578x324
Weight (kg)	4.9
Aerodynamic resistance (CxS) (m ²)	0.08
Standard mounting (mm)	Bottom-entry Ø76
Spigot length (mm)	≥ 80

ELECTRICAL INFORMATION

Electrical class	EU class I or II
Nominal voltage	198-264V – 50Hz
Power factor	> 95% at full load
Surge protection	10kV / 10kA
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)
	5700K (Cool white 757) (optional)
Colour rendering index (CRI)	≥ 70 (Neutral white 740)
	≥ 70 (Cool white 757) (optional)
Upward Light Output Ratio (ULOR)	≤ 8%

OPERATING CONDITIONS

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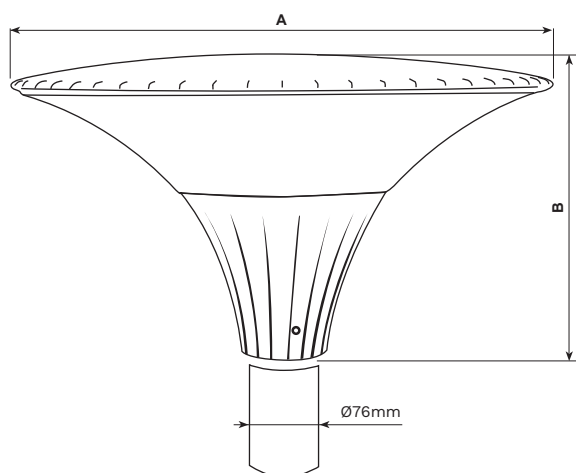
LIFETIME OF THE LEDS @ TQ 25°C

For all versions	100,000h - L70B10
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LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	80,000h ≤10% failure rate
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For options and accessories, please turn to page 6.



Performance



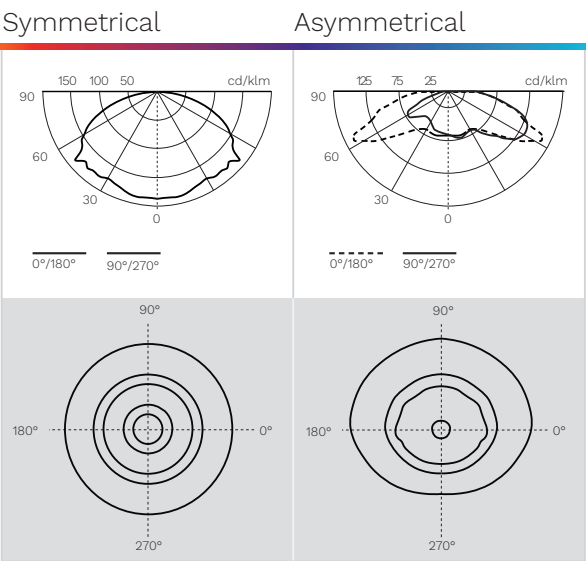
				Nominal flux (lm) ⁽¹⁾	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry
Luminaire	Number of LEDs	Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
ZELA	10	700	0.1	3270	22	148	2620 / 1650 ⁽²⁾	119 / 75 ⁽²⁾	Symmetrical Asymmetrical
	20	500	0.13	4870	31	157	3890 / 2460 ⁽²⁾	125 / 79 ⁽²⁾	
	20	600	0.17	5700	38	150	4560 / 2880 ⁽²⁾	120 / 76 ⁽²⁾	
	20	700	0.2	6540	46	142	5230 / 3310 ⁽²⁾	113 / 72 ⁽²⁾	

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.

⁽²⁾ Asymmetrical

Light Distributions



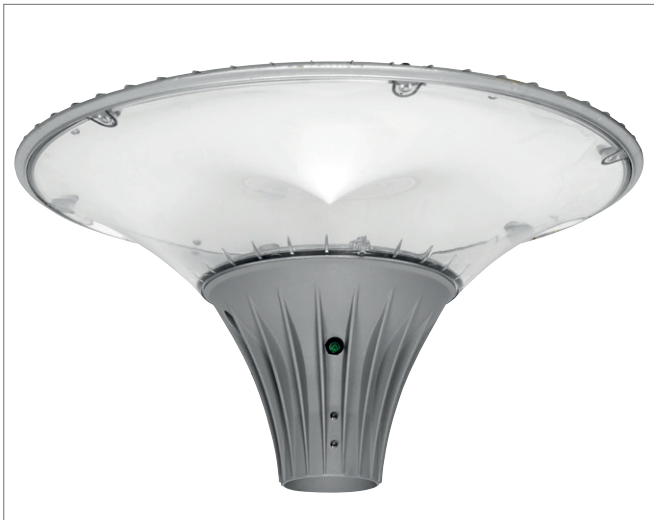
Key Features



Fins on the base section add a certain elegance by continuing the flow of the pole, whilst also acting as a heatsink



Faceted reflector for asymmetrical distribution



The optional miniature daylight switch can provide further energy savings



Designed for ease of installation

Construction Details

This post top luminaire provides a new contemporary design for a well-known shape using state-of-the-art LED technology. It consists of a corrosion-resistant marine grade high-pressure die-cast aluminium (EN 1706 AC-44300) base and gear plate, a top cover made of ASA and a high-impact acrylic protector.

The luminaire emits a pleasant, glare-free light due to the highly efficient white reflector (symmetrical light distribution).

A faceted reflector is available as an option (asymmetrical distribution).

The complete luminaire is sealed to IP 66.

Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®).

The luminaire is power factor corrected to $\geq 0,95$.

Ordering Information

Example:

ZELA 46 NW SYAV76BGR 1

ID	Watt	LED Colour	Optic	Protector	Spigot	Colour options	Surge Protection	Switching/dimming control	Other options / accessories
ZELA	22 31 38 46	CW Cool White (5700K) NW Neutral White (4000K)	SY Symmetrical light distribution AS Asymmetrical light distribution	A Acrylic P Polycarbonate POL Police version	V76 Ø76mm bottom entry	BGR Telegrey 4 (RAL 7047), Textured finish BLK Black (RAL9017), Textured finish MBG Mid Brunswick Green (RAL 6005), Textured finish P/O Painted Other (RAL / Finish [Brilliant/Matt])	1 10kV	DL Daylight switch	12V 12V solar version

Custom Options

Switching/dimming control	DALI
	1-10V
	Optidim (DIM profile 1-5)
	Solar Optipower (Profile 2)
Electrical class	EU Class II
Cabtyre	4m
	6m
	9m
Correlated colour temperature	3000K (Warm white)

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



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Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
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2022-05

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