

LED ZELA





Symmetrical



Asymmetrical



## CHARACTERISTICS – LUMINAIRE

Optical compartment tightness level:	IP 66 <sup>(*)</sup>
Electronic compartment tightness level:	IP 66 <sup>(*)</sup>
Impact resistance (polycarbonate):	IK 08 <sup>(**)</sup>
Aerodynamic resistance (CxS):	0.082m <sup>2</sup>
Mounting height:	3-6m
Nominal voltage:	198-264V - 50Hz
Electrical class:	I or II <sup>(*)</sup>
Operating temperature (T <sub>a</sub> ):	-35°C to +35°C
Weight:	4.9kg
Standard colour:	AKZO 900 grey, Textured finish; Light Grey (RAL 7047), Textured finish

### LED light sources

Correlated colour temperature (CCT):	Neutral white (4000K, CRI ≥70)
Wattage:	19W - 55W
Flux:	2163lm - 6490lm

### Materials

Top cover:	Acrylonitrile styrene acrylate (ASA)
Base and gear plate:	High-pressure die-cast aluminium
Protector:	High-impact acrylic

<sup>(\*)</sup> according to SANS 60598

<sup>(\*\*)</sup> according to SANS 62262

## APPLICATIONS

- Group B road lighting
- General area lighting
- Parks and gardens
- Security lighting

## KEY ADVANTAGES

- 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

## 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 high-pressure powder-coated die-cast aluminium 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 mirror reflector is available as an option (asymmetrical distribution).

The complete luminaire is sealed to IP 66.

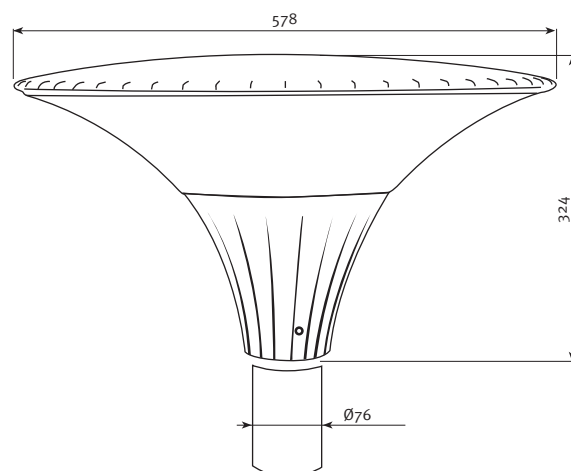
Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®).

The luminaire is power factor corrected to ≥0.95.

## OPTIONS

- Warm white (3000K)
- Ø60mm Spigot
- Daylight switch
- Asymmetrical light distribution
- Polycarbonate protector
- Police version protector

## DIMENSIONS IN MM



## APPLICATIONS

The post top luminaire was developed for the decorative lighting of Group B roads, general area lighting, parks and gardens, where energy saving, low maintenance and precise light control considerations are important factors. It emits a pleasant, glare-free light, making it the perfect luminaire for architectural spaces.



Area lighting



Residential street lighting



Narrow streets

## PHOTOMETRY

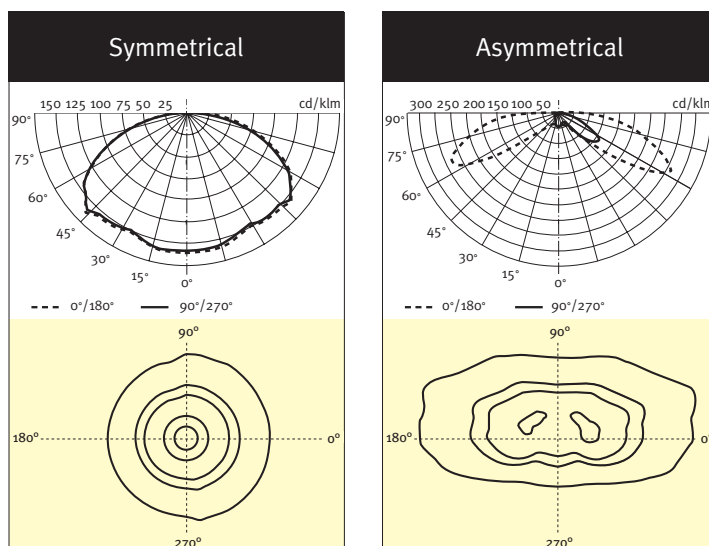
OVERVIEW						Lifetime residual flux @ $T_a$ 25°C <sup>(**)</sup>
Number of LEDs	Neutral white (4000K)	8 LEDs	12 LEDs	16 LEDs	24 LEDs	@100.000h
LED Current: 700mA	Nominal flux (lm)*	2163	3245	4326	6490	70%
	Power consumption (W)	19	27	37	55	

<sup>(\*)</sup> The nominal flux is an indicative LED flux @  $T_j$  25°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.

<sup>(\*\*)</sup> In accordance with LM-80 – TM-21

## LIGHT DISTRIBUTIONS



Electronic data files can be downloaded from  
[www.beka-schreder.co.za/knowledge-base](http://www.beka-schreder.co.za/knowledge-base)



## ORDERING DATA

DESCRIPTION	LINE CURRENT (A)	LEDS	LED CURRENT (mA)	LUMEN	MASS (KG)
ZELA 19W	0.09	8	700	2 163	4.9
ZELA 27W	0.12	12	700	3 245	4.9
ZELA 37W	0.16	16	700	4 326	4.9
ZELA 55W	0.24	24	700	6 490	4.9

Standard colour: AKZO 900 grey, Textured finish  
Light Grey (RAL 7047), Textured finish

Standard CCT: Neutral white (4000K)

Standard photometric distribution: Symmetrical

## OPTIONS

ELECTRICAL	
Switching control	Daylight switch
Correlated colour temperature	Warm white (3000K)
MECHANICAL	
Protector	Polycarbonate
	Police version
Spigot	Ø60mm
Colour	Mid Brunswick (RAL 6005), Textured finish
	Black (RAL 9017), Textured finish
	White (RAL 9003), Textured finish
	Sandstone (RAL 1001), Textured finish
	Any RAL colour, Matt finish
	Any RAL colour, Brilliant finish
	Any RAL colour, Textured finish
PHOTOMETRICS	
Photometric distribution	Asymmetrical



Designed and manufactured by BEKA Schröder (Pty) Ltd - South Africa  
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