BEKA Schréder
Experts in lightability™

ZELA

Comfort meets performance and efficiency

ZELA

IP 66

Up to IK 10

10kV

Symmetrical

Asymmetrical

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

This modern luminaire 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.

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
- 5 year warranty (*)

(*) Terms and conditions apply

URBAN & RESIDENTIAL STREETS | BIKE & PEDESTRIAN PATHS | SQUARES & PEDESTRIAN AREAS | CAR PARKS | RAILWAY STATIONS & METROS | SPORT AREAS

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)	≥ 125

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

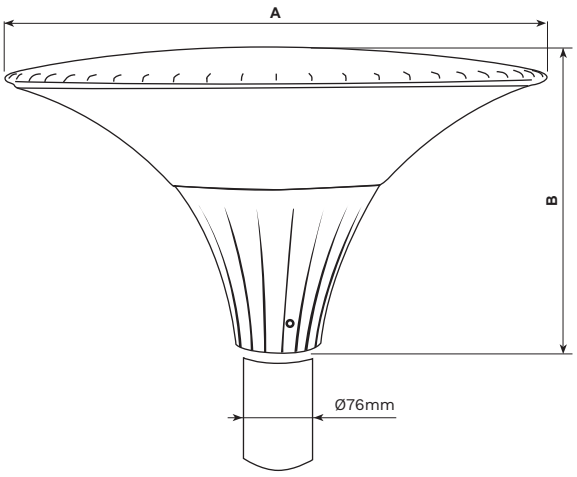
OPTICAL INFORMATION	
LED colour temperature	4000K (Neutral white 740)
	5700K (Cool white 757) (optional)
Colour rendering index (CRI)	≥ 70 (Neutral white 740)
	≥ 70 (Cool white 757) (optional)
Upward Light Output Ratio (ULOR)	≤ 8%

OPERATING CONDITIONS	
Operating temperature range (Ta)	-35°C up to +35°C

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

LIFETIME OF THE DRIVER @ TQ 25°C	
For all versions	100,000h ≤10% failure rate

For options and accessories, please turn to page 6.



Performance

Luminaire	Number of LEDs	Current (mA)	Line Current (A)	Nominal flux (lm)[1] Typical	Power consumption (W) Typical	Nominal efficacy (lm/W) Typical	Luminaire output flux (lm) Typical	Luminaire efficacy (lm/W) Typical	Photometry
ZELA	8	700	0.09	2730	19	144	2000 / 1230[2]	105 / 65[2]	Symmetrical Asymmetrical
	12	600	0.1	3460	23	150	2520 / 1558[2]	109 / 68[2]	
	16	700	0.16	5320	37	144	3880 / 2390[2]	105 / 65[2]	
	24	550	0.24	6300	43	147	4600 / 2835[2]	105 / 65[2]	

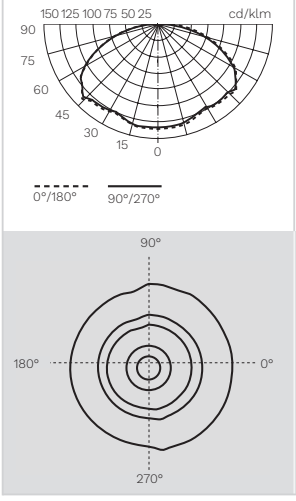
Tolerance on LED flux is ± 7% and on total luminaire power ± 5%

[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.

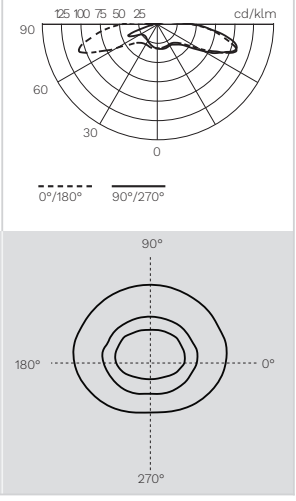
[2] Asymmetrical

Light Distributions

Symmetrical

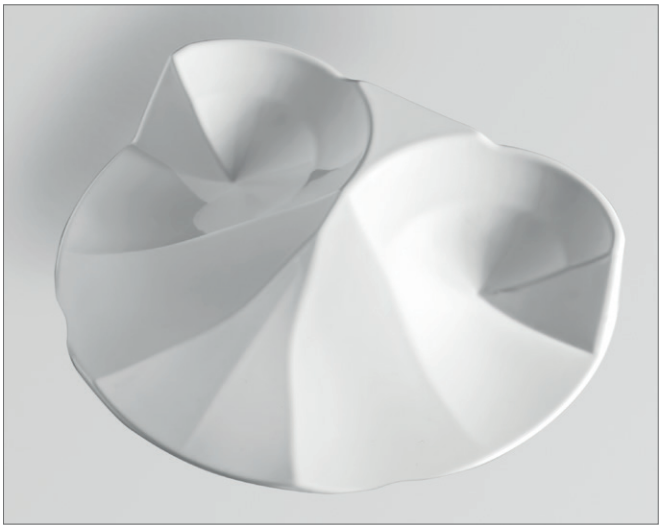


Asymmetrical

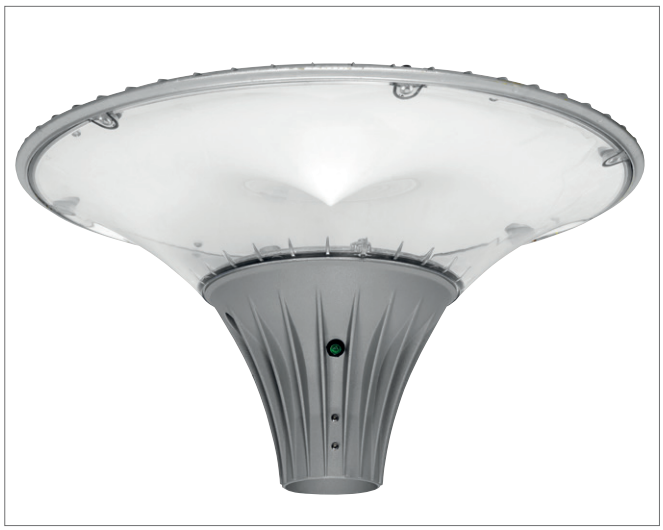


Key Features

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.

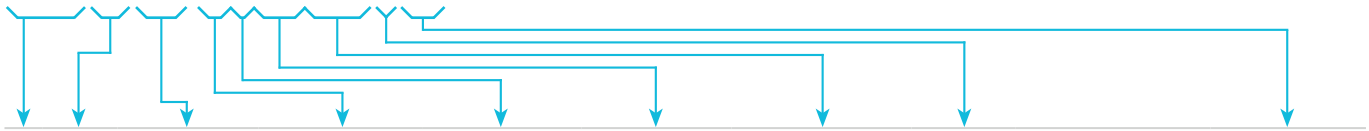
Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®).

The luminaire is power factor corrected to ≥0,95.

Ordering Information

Example:

ZELA 43 NW SYAV76BGR 1 NC



ID	Watt	LED Colour	Optic	Protector	Spigot	Colour options	Surge Protection	Switching/dimming control	Other options / accessories
ZELA	19 23 37 43	**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 **AK9** AKZO 900 Grey, Textured finish **MBG** Mid Brunswick Green (RAL 6005), Textured finish **BLK** Black (RAL9017), Textured finish **WHT** White (RAL 9003), Textured finish **SST** Sandstone (RAL 1001), Textured finish **DGR** Dark Grey (RAL 7045), Textured finish **PLG** Pearl Light Grey (RAL 9022), Textured finish **P/O** Painted Other (RAL / Finish [Brilliant/Matt])	**1** 10kV	**DL** Daylight switch	**12V** 12V solar version **NC** No cable supplied

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 Schréder

Experts in lightability™

SABS ISO 9001

www.beka-schreder.co.za

Designed and manufactured by BEKA Schréder (Pty) Ltd

LOCALLY manufactured

2020-11