

ZIYA

Economical energy-efficient LED solution



ZIYA-E



ZIYA-1



ZIYA-2



LOCALLY
manufactured



IP 65

IK 10



10kV



Key advantages

- Designed and manufactured in South Africa
- Designed to replace conventional HID and CFL streetlight luminaires
- Available in a battery back-up version
- Provides energy savings of up to 70%
- Quick and easy installation
- No lamp or component replacements for more than 10 years
- Unsurpassed light uniformity
- Sustainable and robust materials
- No ingress of dust and moisture into the LED and controller compartment - IP 65
- Vandal-resistant - IK 10
- Surge protection 10kV/10kA
- 3-year warranty (*)

(*) Terms and conditions apply

Characteristics

GENERAL INFORMATION

Testing standard	SANS 475, SANS 60598, SANS 62262		
Housing	ZIYA-E: UV-stabilised, calcium-filled Polypropylene	ZIYA-1: Marine grade aluminium (EN 1706 AC-44300)	ZIYA-2: Marine grade aluminium (EN 1706 AC-44300)
Protector	High-impact polycarbonate		
Housing finish	ZIYA-E: Polypropylene (light grey)	ZIYA-1: Unpainted aluminium	ZIYA-2: Unpainted aluminium
Aerodynamic resistance (CxS)	ZIYA-E: 0.107m ²	ZIYA-1: 0.107m ²	ZIYA-2: 0.182m ²
Standard mounting	Slip-over side-entry Ø42mm		
Spigot length	≥ 125mm		
Nominal voltage	150-305V – 50Hz		
Surge protection	10kV / 10kA		
Operating temperature range (Ta)	ZIYA-E: -20°C up to +45°C	ZIYA-1: -20°C up to +45°C	ZIYA-2: -20°C up to +40°C

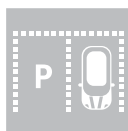
ZIYA	E	1	2
Wattage (up to)	36W	80W	170W
Nominal flux (up to)	6196lm	13538lm	28449lm
Luminaire output flux (up to)	5081lm	11101lm	23328lm
Luminaire efficacy (up to)	140lm/W	138lm/W	137lm/W
Colour temperature	4000K (Neutral white 740); CRI ≥70		
Lifetime of the LEDs @Tq 25°C	60,000h - L90B10		
Lifetime of the Driver @Tq 25°C	100,000h ≤10% failure rate		



URBAN & RESIDENTIAL STREET



ROAD & MOTORWAY



CAR PARK



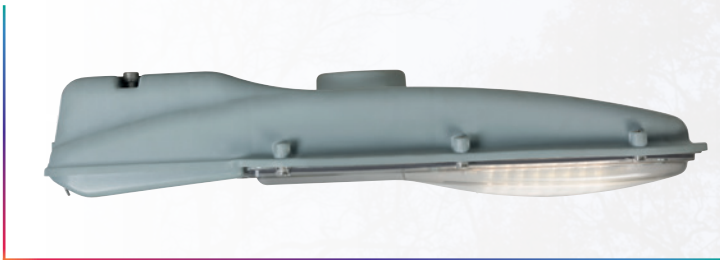
SQUARE & PEDESTRIAN AREA



BIKE & PEDESTRIAN PATH

Please consult your sales representative for more information.

Case Study: 70W HPS Comparison

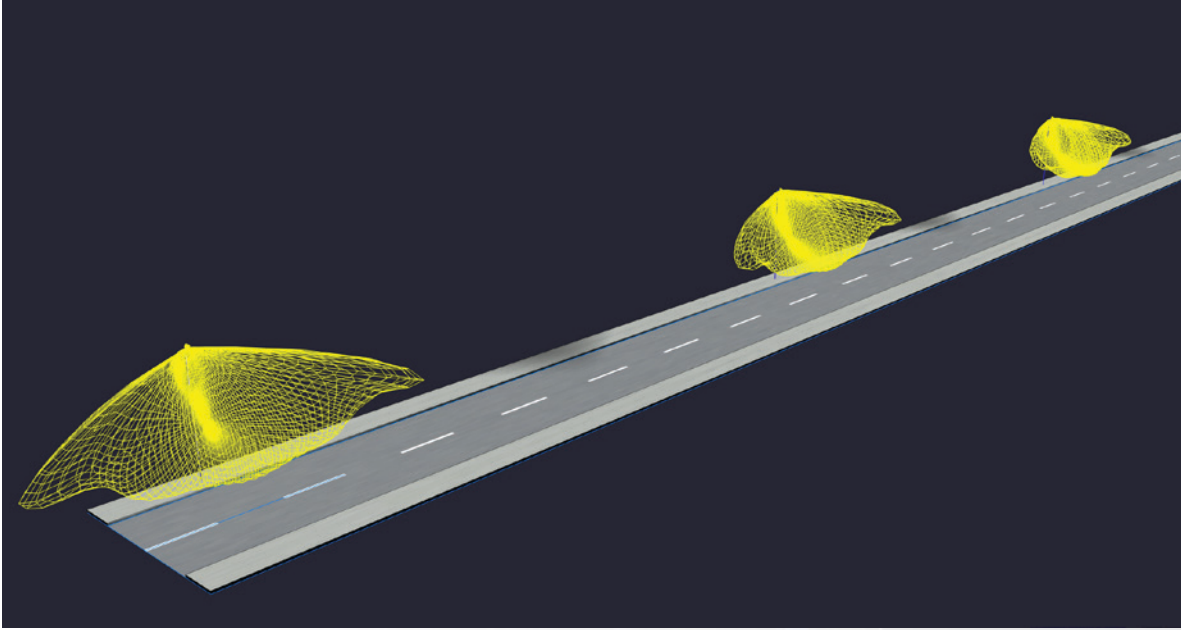


Specifications
Road: B2 classified road + 2m sidewalks
Luminaire spacing: 52m
Road width: 7m
Height: 7m

Comparing a 70W HPS to a ZIYA-E street light installation

The ZIYA-E provides a 70% energy saving compared to a 70W high-pressure sodium luminaire, while fully meeting the road light level requirements.

Furthermore, a much better colour rendering index is provided, thereby enhancing the safety and visibility of pedestrians and road users.



	B2 Requirements	Luminaire fitted with 70W High-Pressure Sodium Lamp	ZIYA-E	Energy Savings per km of road	
				70W HPS/E	ZIYA-E
Luminaire power consumption (W)	-	86	30	<div style="display: flex; align-items: center;"> <div style="width: 100%; height: 100%; background-color: red; margin-right: 10px;"></div> <div style="text-align: center;"> <p>100%</p> <p>1911W</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="width: 100%; height: 100%; background-color: blue; margin-right: 10px;"></div> <div style="text-align: center;"> <p>70% Energy Savings</p> <p>570W</p> </div> </div>	
Spacing between luminaires (m)	-	45	52		
Average illuminance (lux)	At least 3	3.5	3.8		
Minimum illuminance (lux)	At least 0.6	1	0.6		
Power consumption per km (W)	-	1911	570		

Please note: Detail on lighting design comparison available on request.

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



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Designed and manufactured by BEKA Schröder (Pty) Ltd



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