

ELLEGA

Versatility for various types of urban
landscapes



ELLEGA



IP 66

IK 07



10kV



Distinct design with LED technology

The ELLEGA, with its simple but very elegant linear design, provides a versatile range of luminaires to light diverse landscapes.

The flexibility of the second generation LensoFlex®2 photometric engine provides multiple lighting distributions to adapt to the diverse needs of contemporary lighting. The amount of LEDs is adapted to meet the photometrical requirements of the specified application.

The ELLEGA luminaire is available in a single or double configuration at various heights.

This winning combination of performance, design and flexibility enables the ELLEGA range to illuminate streets, residential areas, parks, bicycle and pedestrian paths with a better quality of light, to generate energy savings and to reduce the ecological footprint with a perfect aesthetic integration into the environment.



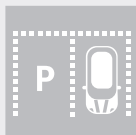
URBAN &
RESIDENTIAL
STREETS



BIKE &
PEDESTRIAN
PATHS



SQUARES &
PEDESTRIAN
AREAS



CAR PARKS



SHOPPING
CENTRE



RAILWAY
STATIONS &
METROS



SPORT AREAS

Key advantages

- Designed and manufactured in South Africa
- Designed for various types of urban landscapes
- LensoFlex®2 photometric engine with photometry adapted to various applications
- White light available in neutral or warm white
- Maximised savings in energy and maintenance costs
- Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®)
- Extruded aluminium
- Surge protection 10kV/10kA
- 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

MATERIALS AND FINISH

Pole	Extruded aluminium
Light engine	Die-cast aluminium
Protector	High-impact clear glass
Housing finish	AKZO grey 900, Textured finish
Tightness level	IP 66
Impact resistance	IK 07
Weight (kg)	ELLEGA 3: 37
	ELLEGA 4: 44
	ELLEGA 5: 50
	ELLEGA 3-2: 42
	ELLEGA 4-2: 48
	ELLEGA 5-2: 55

ELECTRICAL INFORMATION

Electrical class	EU class I
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)
	3000K (Warm white 730) (optional)
Colour rendering index (CRI)	≥ 70 (Neutral white 740)
	≥ 70 (Warm white 730) (optional)
Upward Light Output Ratio (ULOR)	≤ 0%

OPERATING CONDITIONS

Operating temperature range (Ta)	-20°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	100,000h ≤10% failure rate
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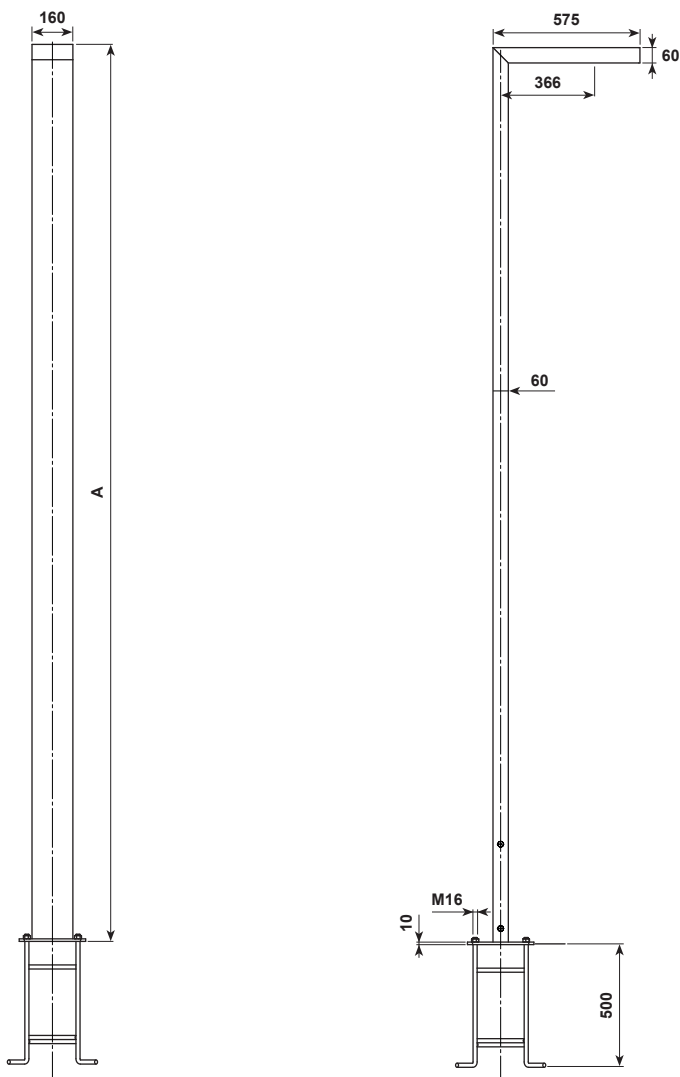
For options and accessories, please turn to page 7.



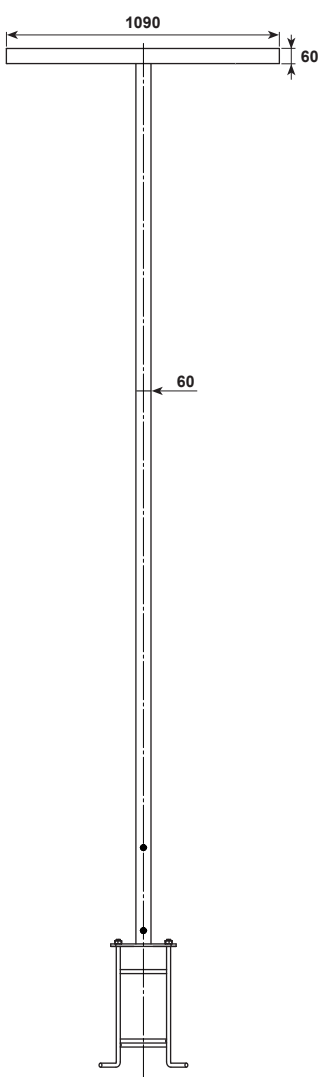
Hingeable LED engine for ease of installation and maintenance

Dimensions in mm

Single bracket



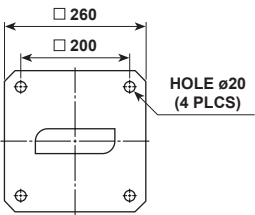
Double bracket



Single bracket:	ELLEGA 3	ELLEGA 4	ELLEGA 5
A	3400mm	4600mm	5800mm
Weight	37kg	44kg	50kg

Double bracket:	ELLEGA 3-2	ELLEGA 4-2	ELLEGA 5-2
A	3400mm	4600mm	5800mm
Weight	42kg	48kg	55kg

Baseplate



Performance

			Nominal flux (lm) ⁽¹⁾	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry
Luminaire	LED Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
Single Bracket	ELLEGA 3	700	0.09	2631	20	132	2184	109
		700	0.16	5157	37	37	4280	116
	ELLEGA 4	700	0.09	2631	20	132	2184	109
		700	0.16	5157	37	37	4280	116
	ELLEGA 5	700	0.09	2631	20	132	2184	109
		700	0.16	5157	37	37	4280	116
Double Bracket	ELLEGA 3-2	700	0.09	2*2631	40	132	2*2184	109
		700	0.16	2*5157	74	37	2*4280	116
	ELLEGA 4-2	700	0.09	2*2631	40	132	2*2184	109
		700	0.16	2*5157	74	37	2*4280	116
	ELLEGA 5-2	700	0.09	2*2631	40	132	2*2184	109
		700	0.16	2*5157	74	37	2*4280	116



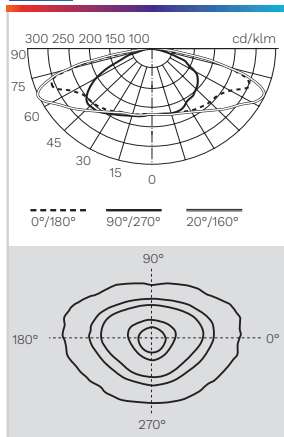
Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$

⁽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 Distributions

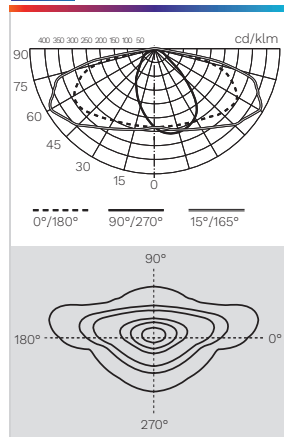
LENZO
FLEX® 2

5068 optic



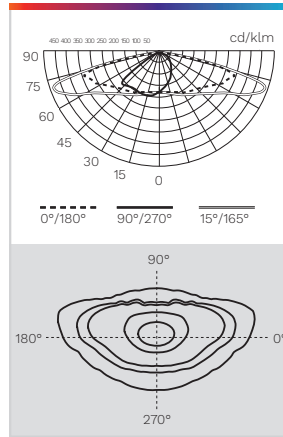
LENZO
FLEX® 2

5245 optic



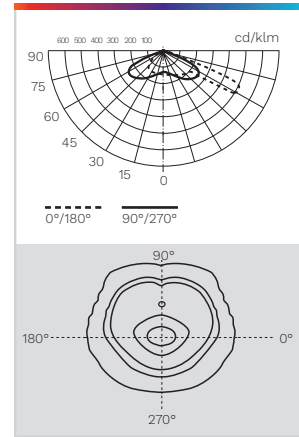
LENZO
FLEX® 2

5248 optic



LENZO
FLEX® 2

5119 optic



LENZO
FLEX® 2

LensoFlex®2

LensoFlex®2 is based upon the addition principle of photometric distribution. Each LED is associated with a specific PMMA lens that generates the complete photometric distribution of the luminaire.

It is the number of LEDs in combination with the driving current that determines the intensity level of the light distribution.

The proven LensoFlex®2 concept includes a glass protector to seal the LEDs and lenses into the luminaire body.

Key characteristics

- Protector: glass
- LED type: high-power 2mm²
- Lenses: PMMA
- Back light control: added to the lenses as an option



Construction Details

The ELLEGA consists of a marine grade aluminium extruded pole and an aluminium extruded optical head assembly. The LED light engine is enclosed and sealed by a high-pressure casting and high impact-resistant glass, sealed to an ingress protection (IP) rating of 66. This ensures that the photometric performance is maintained over time. The control gear and LED engine is mounted on a hingeable aluminium plate for ease of installation and maintenance. The whole light fixture, including pole, is a fixed assembly and will be supplied in different lengths and configurations to meet the client's requirements.

The latest LED technology has been utilized to provide the most energy efficient solution. The thermal design has been optimized to offer a high lifetime of all electronic components and thereby providing an expected lifetime of 100,000hrs at L70B10, even in the most extreme environment.

Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®).

The incorporated 10kV surge protection ensures the reliable and robust functionality of the electronic components within any surging exposing environment.

Ordering Information

Example:

ELLEGA 5-2 74W N 5068 BLK

ID	Mounting Height	Watt	LED Colour	Optic	Colour options
ELLEGA	3 3400mm surface mounted single	20 37 40 74	N Neutral White (4000K)	5068 5119 5245 5248	BL Black (RAL9017), Textured finish
	4 4600mm surface mounted single				
	5 5800mm surface mounted single				
	3-2 3400mm surface mounted double				
	4-2 4600mm surface mounted double				AK9 AKZO 900 Grey (RAL 9003), Textured finish
	5-2 5800mm surface mounted double				
					P/O Painted Other (RAL / Finish [Brilliant/Matt])

Custom Options

Correlated colour temperature	3000K (Warm white 830)
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BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



LOCALLY
manufactured

2021-12

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