

## Serapias



With Prismatic cover



With Fully Clear transparent PC diffuser

The Serapias family of Street & Road luminaires by Juganu delivers high performance with system efficacy of up to 150 lumens per watt (LPW), enabling energy savings of up to 75% compared to HPS lamps and 30% compared to conventional LED fixtures.

Designed for longevity, Serapias fixtures exhibit less than 1% light degradation per year, ensuring consistent illumination over time. Advanced optical design ensures light is precisely directed where it's needed, providing uniform coverage that meets global standards for street, road, garden, and park lighting.

Built to withstand harsh environmental conditions—including tropical rain and coastal climates—JLED™ fixtures are engineered for durability and reliability.

Serapias luminaires come equipped with integrated smart infrastructure, including wireless communication, a precision power management module, and a comprehensive AC protection module.



### Features

#### Technical Specifications

- CCT: 3000K – 4000K (typical)
- Optical Distributions for Diverse Road Conditions:
  - Lateral: Type II, VS
  - Longitudinal: Very Short, Short
- Photobiological Safety: IEC 62471 (Exempt Group)
- Blue Light Safety: IEC 62778 and IEEE 1789 standards
- Ingress Protection: IP65 rated for water and dust resistance
- Impact Protection: IK08 rated

### Benefits

- Efficient Lighting: Uniform, glare-free illumination for better visibility
- Energy Savings: Cuts energy consumption by 55%–75%
- Low Maintenance: Reduction in maintenance costs over time
- Long Lifespan: Durable design ensures years of reliable operation
- Easy Installation: Lightweight and installer-friendly
- Enhanced Safety: Improves visibility for drivers, pedestrians, and cyclists

# Serapias

## City & Infrastructure

### GENERAL INFORMATION

Dimensions (mm)	See the Mechanical Dimensions page below
Weight	5.2 kg
Materials	Powder-coated aluminum Polycarbonate

### OPERATING AND ELECTRICAL

Power Consumption	0 to 40 W
Surge Protection	10 kV
Power Factor	> 0.92, max current THD 15% at 220V
System Efficacy	up to 150 LPW (including PS & Optics)
Operating Voltage	120 – 264 VAC
Maximum Voltage	90 – 305 VAC
Operating Frequency	47Hz – 63 Hz
Dimming	Factory set, 0 to 10V, wireless control (NEMA)
Operating Temperature	–25°C to 50°C
Cooling	Passive cooling
Ingress Protection rate	IP65
Impact Protection	IK08

### LIGHTING CHARACTERISTICS

Lumen Maintenance	TM21 based on ISTMT and LM80 L90 > 36,000 hours L70 > 114,000 hours
Correlated Color Temperature (CCT)	3000K - 4000K
Color Rendering Index (CRI)	>70 (80 – optional)

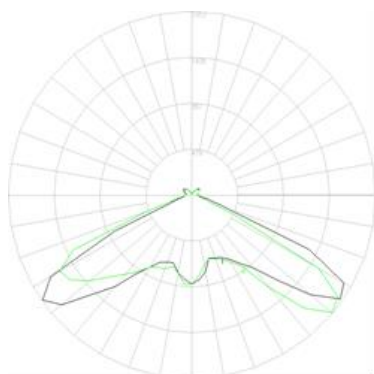
# Serapias

## City & Infrastructure

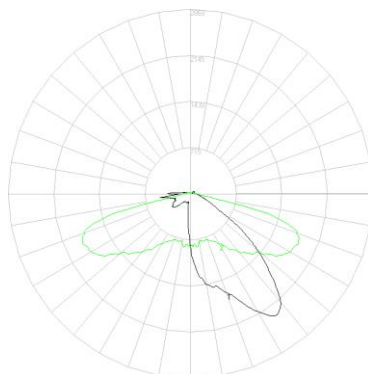
STANDARDS (additional local standards applicable)

Group	Standard abbreviation	Description
EMC	EM 55015 IEC 61000-3-2,3	Emission
	EN61547 EN 61000-4-2,3,4,5,6,8,11	Immunity 10kV surges
Photometrics	IESNA LM-79	Photometric
	IEC 62471	Photo-biologic, exempt Blue light
Mechanics and Environment	IEC 60529	Protection Rate
	IEC-62262	Impact
	IEC 60598-1, IEC 60068-2-6	Vibration in 3 axes
Safety	IEC 60598-2-3 IEC 60598-1	Contains: Dielectric strength Insulation resistance Leakage current Protection against electric shock Torque resistance of screws and fittings Weight/wind
	EN61347-1 EN61347-2-13 EN62384	LED driver safety
Luminaire Performance Test	ISTMT TM-21, LM-80	Temp. of LED, Driver
Certifications	CB ENEC	Europe
	Teken 20	Israel SII

## Photometric Curves



D01 Symmetrical: Type VS, Short



D02 Asymmetry: Type II, Very Short

## Mounting

- Integral die cast mounting pole stop feature
- Suitable for 1.77 ÷ 2.56 in. (45mm to 65mm) mounting pole
- Supports addition of 1 in. Adapter
- Inclination: integrated with  $\pm 15^\circ$ , can be  $90^\circ$  for pole with no arm (post up)

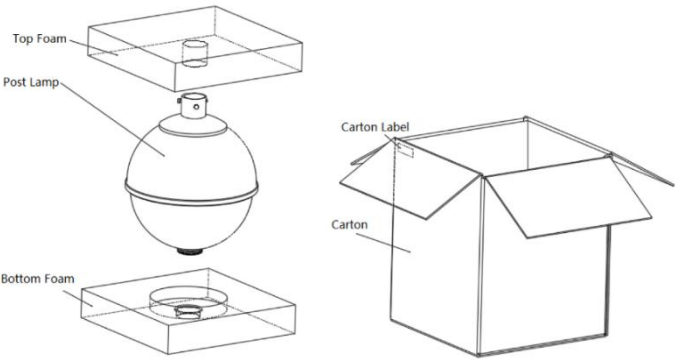
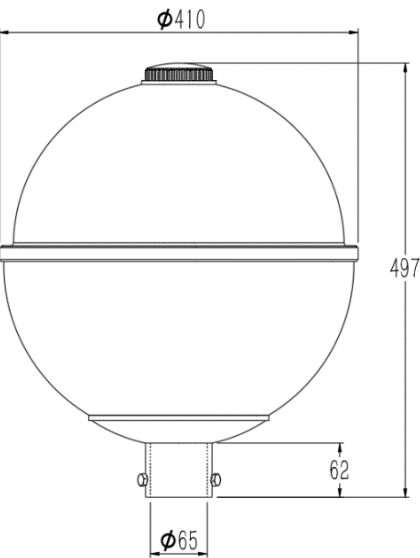
## Performance (4000K)

Power [W]	Typ. efficacy [LPW] Transparent PC cover	Typ. efficacy [LPW] Prismatic PC cover
up to 40	150	135

**Packaging and Weight**

Power	Lighting Fixtures Dimensions	Packaging Dimensions	Net Weight	Gross Weight
40W	497*410	590*485*485	4.5 kg	5.8 kg

**Mechanical Dimensions**



## Ordering Information

Product	Power	Family	CCT	Wireless (COM)	AC protection unit	Distribution curve	Diffuser Cover	Class
JLED-SL	xxxW	Serapias	xx	Wx	Px	Dxx	DFx	Cx

		Default
CCT (other values possible)	<b>30</b> – 3000K	
	<b>40</b> – 4000K	standard
Wx	<b>W0</b> – Wireless controller is not integrated	standard
	<b>WM</b> – JNET1 & JCMS is integrated	
Px	<b>P0</b> – Standard surge protection (10kV) included;	standard
	<b>P1</b> – JACTP (AC total protection module) included	
Distribution curves	<b>D01</b> – Symmetrical: Type VS, Very Short s	standard
	<b>D02</b> – Asymmetry: Type II, Short	
Diffuser PC cover	<b>DF1</b> – Prismatic PC cover	
	<b>DF2</b> – Transparent cover	standard
Cx	<b>C1</b> - class I installation	standard
	<b>C2</b> - class II installation	

## # Ordering Example

JLED-GL-035W-SERAPIAS-40-W0-P0-D01-DF1 -C1

## Description

JLED Garden light of the Serapias family with 35W, 4000K, no communication, 10kV, distribution curve of D01, prismatic cover and Class I installation