

## Smart Calypso



The Calypso family of Retail lights by Juganu is efficient, lightweight, and reliable.

High system efficacy of up to 160 LPW yields significant energy savings of 75%-90% compared to HPS lamps and 30% compared to other LEDs. Stable lighting performance is maintained over time.

Optimized optics direct the light where it's needed, delivering uniform illumination while complying with international standards for retail lighting.

Calypso features advanced edge AI capabilities, using high-resolution cameras and onboard processing to generate real-time computer vision analytics. Data is processed locally, and only anonymized insights are transmitted to the cloud, ensuring strong privacy standards. The system also enables easy third-party integration through flexible APIs, supporting a wide range of smart applications. No PoE is required, allowing for simpler installation and broader deployment flexibility.

### Features

- High-resolution cameras supporting both computer vision analytics and video streaming
- Wireless connectivity - Powered by AC only (Ethernet Is not required)
- Integrated edge processor with a powerful GPU for efficient AI processing and minimal latency
- Wirelessly controlled and monitored for easy access and management

### Benefits

- All-in-one solution, integrating multiple sensors within a single design
- Ensures privacy by processing AI locally inside the lamp, with only raw data sent to the cloud
- Serves as infrastructure for gathering both real-time insights and BI statistics
- Transforms any space into a digital smart environment
- Quick and easy installation
- High lumen output with excellent energy efficiency

# Calypso

## Retail

### GENERAL INFORMATION

Dimensions (mm) 440 x 219 x 177mm (17.32x 8.62 x 6.97 in)

Weight 5 Kg (11lb)

Materials Body: Aluminum, Steel, Polycarbonate, Silicon

### OPERATING AND ELECTRICAL

Power Consumption Up to 150W - Lighting  
Up to 25W – Smart Capabilities

Power Factor up > 0.92, max current THD 15% at 220V

Operating Voltage 110 – 240 VAC

Maximum Voltage 264 VAC

Operating Frequency 47 – 63 Hz

Dimming Wireless control

Operating Temperature 0°C to +40°C (32°F to +104°F)

Cooling Passive Cooling

Ingress Protection IP30 for luminaire  
IP66 for driver and optics

### LIGHTING CHARACTERISTICS

Lumen Maintenance TM21 based on LM80  
L70 > 120,000 hours  
L90 > 60,000 hours

Correlated Color Temperature (CCT) 3000K - 5000K

Color Rendering Index (CRI) >80

### WIRELESS LIGHTING CONTROL

Wireless Lighting control Juganu proprietary mesh technology  
SubG frequency 915 MHz

# Smart Calypso

## Retail

### EMBEDDED CAMERAS

Number of Cameras	1
Resolution	Sensor: Sony, Max Resolution: 12MP 4056(H) x 3040(V)
Field of View (FOV)	87° H, 104° D Additional lenses are optional and can be configured at the time of purchase

### INTEGRATED SENSORS

Audio (Microphone)	Microphone for noise level (dB)
Environmental Sensor	Measuring : VOC, Pressure, RH, Temp

### JNET 2 MULTI-LEVEL WIRELESS BACKHAUL

Wireless technology	802.11ax 2x2 , UNII 1&3
Max Aggregated EIRP	< 36dBm
Antenna Types	Omni 2X2

### EDGE PROCESSING

GPU	384 NVIDIA CUDA® cores and 48 Tensor cores
CPU	6-core NVIDIA Carmel Arm
Memory	16GByte Flash
Main AI Processor Performance	21 TOPS

## Smart KIT

## Retail

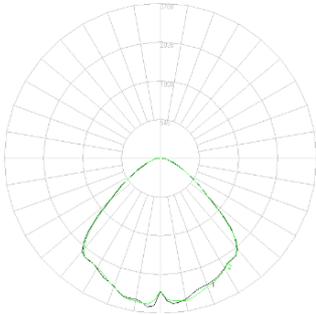
### STANDARDS (additional local standards applicable)

The product is designed to meet the following standards

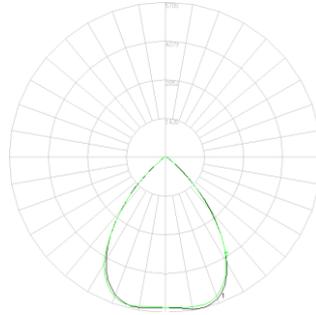
Group	Standard abbreviation	Description
EMC	IEC 62368-1 / IEC 61347-1 FCC Part 15 Subpart B	Emission
Radio	FCC Part 15 Subparts C & I ETSI EN 300 220 / EN 300 440	USA Europe
Mechanics and Environment	IEC 60529, ETSI EN 300 019-1-3 IEC 60068-2, IEC 60721-3-3	Protection rate Environmental
Safety	IEC 62368-1 IEC 61347-1	Safety of electronic equipment within the fields of Audio/Video, Information Technology and Communication Technology
	UL 62368-1 UL 1598	UL Standard for Safety for the North America market

Photometric Curves

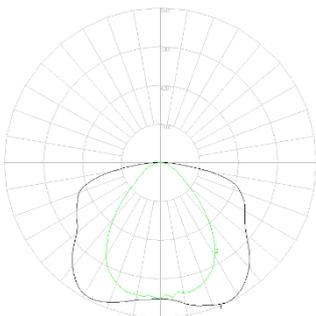
D01 - Symmetric 102 deg



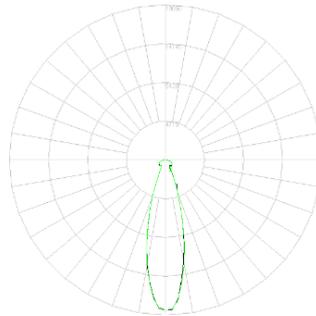
D02 - Symmetric 78 deg



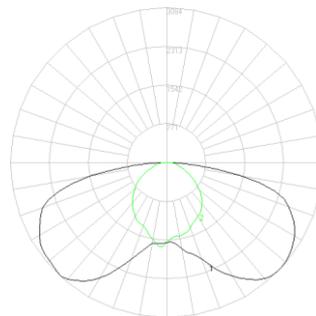
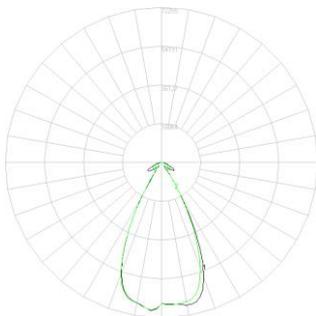
D06 – 150/80 deg



D08 - Symmetric 30 deg



D11 – 160/100 deg



## Mounting

- Suspended / Easy mounting to a metal post
- Recommended Installation Height – 4 to 8 m

## Packaging and Weight

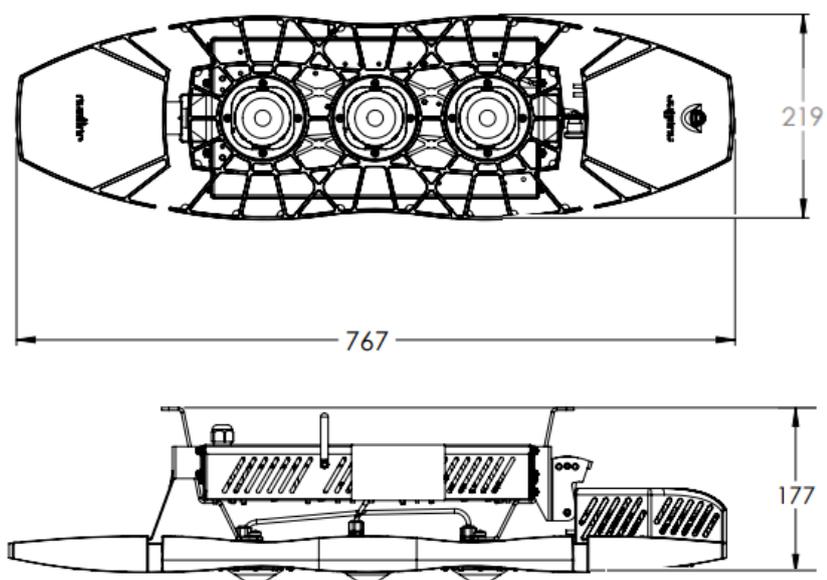
Calypso option	Lighting Fixture Dimensions (mm)	Packaging Dimensions (mm)	Net Weight	Gross Weight
Smart	767 x 219 x 177	800 x 240 x 220	5.5 kg	6 kg

## Performance

Power [W]	Typ. efficacy [LPW]	Total lumens [LM]
80	160	12,800
100	155	15,500
120	150	18,000
150	140	21,000

## Mechanical Dimensions

Smart Calypso



## Ordering Information

Product	Power	Family	CCT	Lenses	Distribution curve
JLED-HB	xxxW	Smart Calypso	xx	Wx	Dxx

CCT (other values possible)	<b>30</b> – 3000K	
	<b>40</b> – 4000K	Default
	<b>50</b> – 5000K	
Lenses	<b>D01</b> – H-87°, V-68°, D-104°	
	<b>D02</b> - H-69°, V-54°, D-82°	
	<b>D03</b> - H-52°, V-40°, D-63°	Default
Distribution curves (see Photometric Curves section)	<b>D01</b> Symmetric, 102 deg	
	<b>D02</b> Symmetric, 78 deg	Default
	<b>D06</b> 150/80 deg	
	<b>D08</b> Symmetric, 30 deg	
	<b>D11</b> 160/100 deg	
	<b>D45</b> Symmetric, 45 deg	

## # Ordering Example

*JLED-HB-120W-SMART-CALYPSO-40-D03-D02*

## Description

JLED Highbay light of the Smart Calypso family with 120W, 4000K, integrated wireless lighting control with cloud management, wide lens, distribution curve D02