

WiFi Phoenix



The **Phoenix** family of Street & Road fixtures by Juganu revolutionizes urban spaces by turning them into smart, connected environments. These fixtures combine public Wi-Fi with Juganu’s proprietary wireless broadband infrastructure between fixtures, and enable **seamless connectivity across large spaces**. With a high system efficacy of up to 140 LPW, Phoenix1 fixtures deliver **significant energy savings**—up to 90% compared to HPS lamps and 30% compared to other LEDs.

Features

- Wireless connectivity - Powered by AC only (Ethernet Is not required)
- Wirelessly controlled and monitored for easy access and management
- High-performance Wi-Fi - Supports seamless, robust connectivity for public networks and IoT devices

Benefits

- Transforms any space into a digital smart environment
- Quick and easy installation
- High lumen output with excellent energy efficiency
- Full city-scale solution – Complements our smart Phoenix/Solitaire, maintaining a network coverage, even in areas without cameras and edge processing



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JL-DS-PHOENIX_1_WIFI_2930 REV 1.2

WiFi Phoenix1

City & Infrastructure

GENERAL INFORMATION

Dimensions (mm)	796*373*207 mm (31.3 x 14.7 x 8.2 in)
Weight	18 kg (40 lb)
Materials	Cast Aluminum body with powder paint, Polycarbonate (PC), Glass
Color	Grey (Ral7042)

OPERATING AND ELECTRICAL

Power Consumption	Up to 120W - Road Lighting Up to 60W – Smart space capabilities
Surge Protection	10 kV
Power Factor	> 0.92, max current THD 15% at 220V
Operating Voltage	110 – 240 VAC
Maximum Voltage	264 VAC
Operating Frequency	47Hz – 63 Hz
Dimming	Wireless control
Operating Temperature	-40°C to 50°C (-40°F to +122°F)
Cooling	Passive cooling
Ingress Protection rate	IP66
Impact Protection	IK08

LIGHTING CHARACTERISTICS

Lumen Maintenance	TM21 based on ISTMT and LM80 L90 > 60,000 hours L70 > 140,000 hours
Correlated Color Temperature (CCT)	3000K , 4000K (configurable at purchase)
Color Rendering Index (CRI)	>70
System Efficacy	Up to 140 lm/w for road lighting

WiFi Phoenix1

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ACCESS POINT SERVICE

Wireless Technology	802.11ax ,WiFi 6 2.4GHz ,CH1-11 5GHz U-NII-1, U-NII-3 (band automatically enabled when JNET2 backhaul channel is not in use) Up to 250 connected Wi-Fi users
Antenna Types	Omni 4x4

WIRELESS LIGHTING CONTROL

Wireless Lighting control	Juganu proprietary mesh technology SubG frequency 868/915/433 MHz
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JNET 2 MULTI-LEVEL WIRELESS BACKHAUL

Wireless technology, dual radio	802.11ax WiFi6, WiFi6E ready, MIMO 4x4, BW: 20 MHz, 40 MHz ,80 MHz, 160MHz (optional) Frequency band: 5160-7115MHz U-NII-1, U-NII-3, U-NII-4, U-NII-5, U-NII-6, U-NII-7, U-NII- 8
Antenna Types	Omni 4x4
Max Aggregated EIRP	<36dBm

WiFi Phoenix1

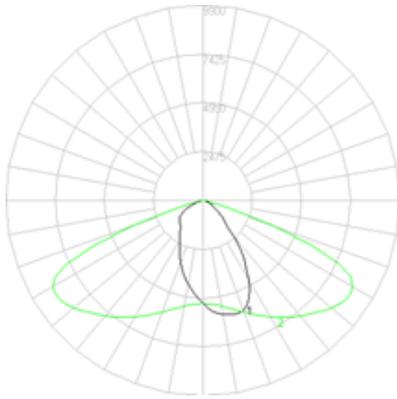
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STANDARDS (additional local standards applicable)
The product is designed to meet the following standards:

Group	Standard abbreviation	Description
EMC	FCC Part 15 Subpart B CISPR 32	Emission
	ETSI EN 301 489-1,3 ETSI EN 301 489-17,19	Immunity
Radio	ETSI EN 301 893 EN 300 220-1,2 FCC Part 15 Subpart C	Radio Standards
	EN 13032-1 IESNA LM-79 – 2008	Photometric
Photometrics	IEC 62471:2006 IEC62778 and IEEE1789	Photo-biologic, exempt Blue light
	IEC 60529, IEC60598-1	Protection rate
Mechanics and Environment	ETSI EN 300 019-1-4 Class 4.1 IEC60598-1	Environmental
	IEC 60598-2-3	Wind Load
	ISO9227 1000H	Solt Fog
	IEC 62262	Mechanical Impact
Safety	IEC 60598-2-3 IEC60598-1 IEC 62368-1	Contains: Dielectric strength Insulation resistance Leakage current Protection against electric shock Torque resistance of screws and fittings Weight/wind
	UL 1598	UL Standard for Safety of Luminaires for the North America market
	IEC 62031	Safety of LED board
	EN61347-1, EN61347-2-13, EN62384	LED driver safety
Luminaire Performance Test	EN 62722-1 EN 62722-2-1:2016, EN 62717	Lumens and CRI performance test over 1000 hours
	ISTMT TM-21, LM-80	Temp. of LED, Driver

Photometric Curves

D01 Type I, Short



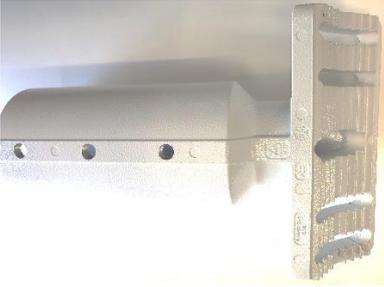
Mounting

- o Integral die cast mounting pole stop feature
- o Suitable for 50.8 – 60 mm (2.00 - 2.36 in.) mounting pole
- o Inclination: integrated with $\pm 15^\circ$, can be 90° for pole with no arm (post up)

Performance (4000K)

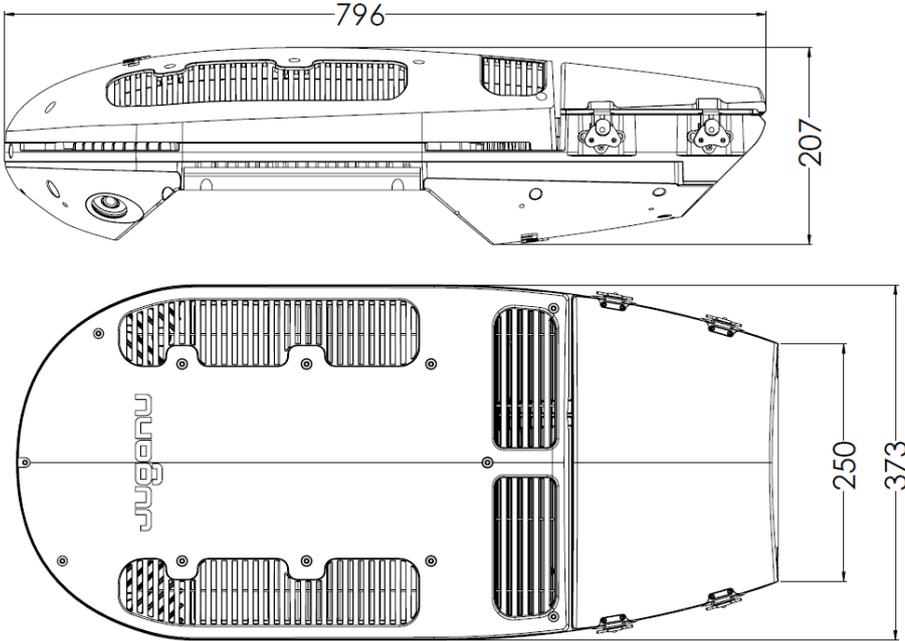
Power [W]	Typ. efficacy [LPW]	Total lumens [LM]
120W	140	16,800

Package Contents

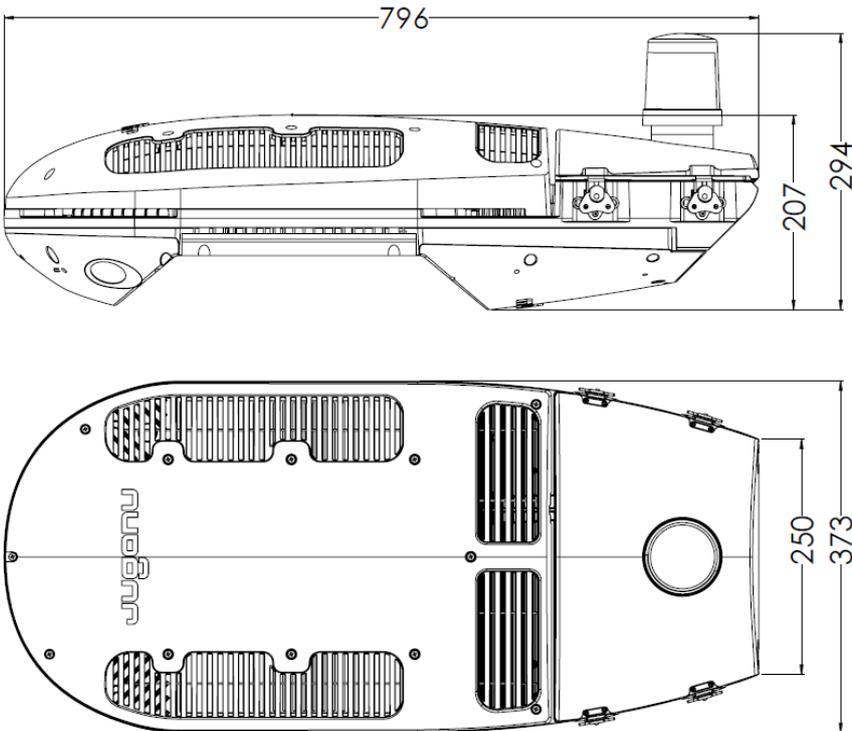
<input type="checkbox"/> WiFi Phoenix1 fixture	
<input type="checkbox"/> Mounting arm	
<input type="checkbox"/> M25 cable gland	
<input type="checkbox"/> 3-pin AC junction box connector	

Mechanical Dimensions

WiFi Phoenix1 NO NEMA



WiFi Phoenix1 With NEMA



Packaging and Weight

Lighting Fixtures Dimensions(mm)	Packaging Dimensions (mm)	Net Weight	Gross weight
796*373*207 mm 31.3 x 14.7 x 8.2 in	1200*380*240 mm 47.3*15*9.5 in	18 kg 40 lb	20 kg 44 lb

Ordering Information

Product	Family	CCT	NEMA	Distribution curve
JLED-SL	WiFi Phoenix1	xx	xx	Dxx

CCT	30 - 3000K	
	40 - 4000K	Default
NEMA Socket	Blank - no NEMA	Default
	ND - with NEMA and Dali	
	NA - with NEMA and PWM	
Distribution curves (see distribution curve)	D01 -Type I, Short	Default

Ordering Example

Order Code: *JLED-SL-WiFi-Phoenix1-40-NA-D01*

Description

WiFi Phoenix1 Street Light, 4000K, NEMA PWM, D01 Optics

Note: For additional CCT options and product colors contact Sales