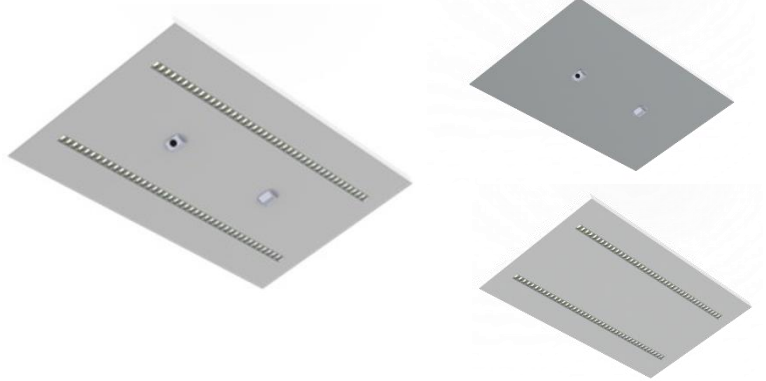


# Tulip

## Smart LED Panel System



The Tulip family of retail and office lights by Juganu is efficient, lightweight, and reliable.

They provide high system efficacy of up to 140 LPW with over 80 CRI.

Negligible reduction of light with time of under 1% per year allows stable lighting for many years.

Tulip provides sophisticated wireless communication with cloud management and control software.

Tulip incorporates the Juganu end2end solution that utilizes existing public lighting infrastructure to transform public spaces into smart and fully connected environments and includes high-resolution optical sensors and provides unmatched edge AI for superior streamlined analytics. Tulip is designed to meet retail and office luminance and illuminance requirements.

### Features

- 2 x FHD Optical sensors
- JNET™ 2 multi-level wireless backhaul
- Powerful AI engine Edge computing
- Wireless Dimming (models with lighting)

### Benefits

- High Lumens per watt
- Retail (Streaming /Processed video)
- Long guaranteed operating lifetime
- Easy installation



# Tulip

## Retail & Commerce

### Product Data

Product Segment: Retail & Commerce  
 Product Type: LED Panel  
 Product Family: Tulip

#### GENERAL INFORMATION

Dimensions (L*W*H)	600 x 1200 x 46 mm, 23.6 x 47.2 x 1.81 in
Weight	8 kg, 17.6 lb
Materials	Aluminum, PMMA

#### OPERATING AND ELECTRICAL

Nominal Operating Voltage	220V AC
Power Consumption	General illumination - 80 W max Smart features – 30 W max
Operating Temperature	-25° to 50°C
Water Resistance (IP Rating)	IP20
Impact Protection	IK02

#### LIGHTING CHARACTERISTICS

Lumen Output	Up to 11,200 lm
CRI	>80
Optic	Symmetric, ≈ 70deg
Color Accuracy	< 5 SDCM
Lumen Maintenance	TM21 based on ISTMT and LM80 L70 > 120,000 hours
Dimming	Wireless control

# Tulip

## Retail & Commerce

### Product Data

Product Segment: Retail & Commerce  
 Product Type: LED Panel  
 Product Family: Tulip

### Key Advantages:

- Once connected to AC mains, the product creates a wireless backhaul network, that allows providing advanced services.
- The fixture includes 2 full HD visual sensors and supports streaming video from the fixture to control center.
- The product includes powerful edge analytics processor, that allows multiple applications.

### WS, WSL Options: Smart Tulip

#### EMBEDDED OPTICAL SENSORS

Number of sensors	2
Resolution	Max 12.33 MP Frame Rate – max 60 fps
Aspect Ratio	4:3, 16:9

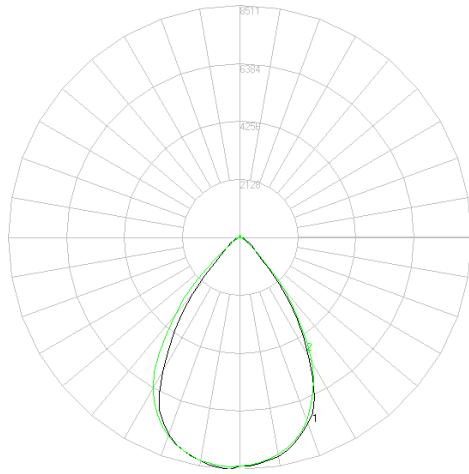
#### WIRELESS BACKHAUL CONNECTIVITY

Backhaul Technology	JNET2 over 802.11ax
Max Aggregated EIRP	< 26dBm
Antenna Types	OMNI Antenna (XY plane)
Security	1X.509, Mutual TLS Authentication, AES256

#### EDGE ANALYTICS

GPU	Up to 26 TOPS
CPU	6 cores ARM
Memory	8 GB 128-bit LPDDR4x @ 51.2GB/s

Photometric Curves



Mounting (Specific installation KIT per mounting type)

- Recessed for drywall ceiling
- Recessed for acoustic ceiling
- Suspended

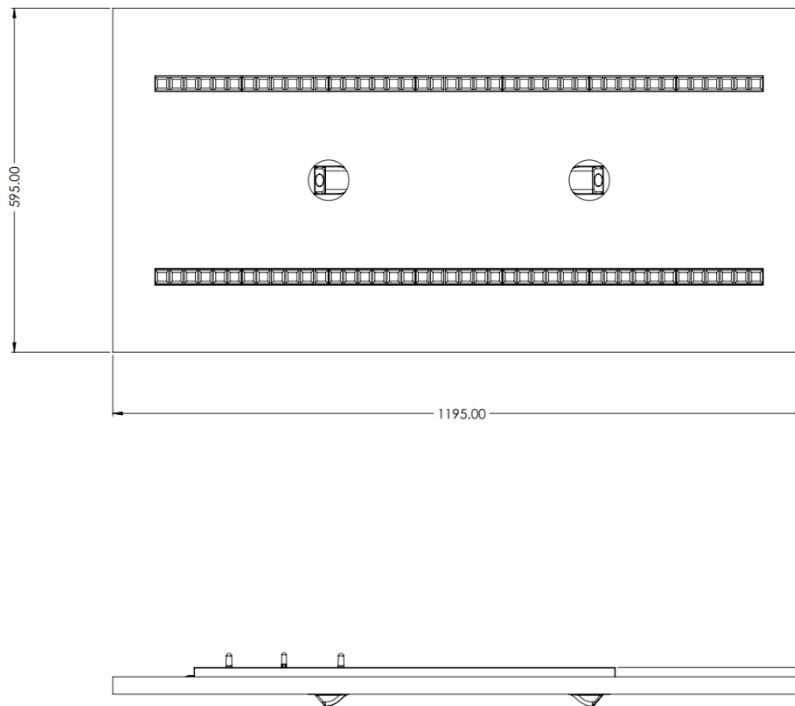
Performance

Power [W]	Typ. efficacy [LPW] at 4000K	Total lumens [LM]
80	140	11200

Packaging and Weight

Packaging Dimensions	Net Weight	Gross Weight
1260*636*185 mm	8 kg	9.1 Kg
49.6*25*7.28 in	17.6 lb	20 lb

Mechanical Dimensions



Ordering Information

Product	Family	Power	CCT	Lighting	Smart Features
PL	TULIP	80W	xx	Lx	Wx

CCT	30	3000K
	35	3500K
	40	4000K
Lighting	L0	No Lighting
	L1	Lighting
Smart Features	W0	Light + Dimming
	WS	Optical sensors only
	WSL	Smart sensors + wireless Backhaul + far edge AI compute engine

# Ordering Table

Marketing PN	Description
JL-PL-TULIP-L0-WS	Panel with optical sensors without Lighting
JL-PL-TULIP-080W-30-L1-W0	Led Panel with wireless dimming with 3000K
JL-PL-TULIP-080W-35-L1-WSL	Led Panel with wireless dimming, optical sensors and wireless backhaul, 3500K