

PJF1

Linear LED Strip Light



Key Features

- Available in 2 ft., 4 ft., or 8 ft. models with lumen packages up to 9,730L.
- 161,000 hours L70 calculated life.
- Suspended or surface mounted.
- Designed to facilitate easier installations.
- Industry leading 10-Year warranty.

Electrical

- 120VAC input. 277-347 VAC input options also available.
- 0-10V dimming option available.
- Photocell/motion sensor option available.
- Operating temperature: -30°C to +40°C (-22°F to +104°F)

Mounting

- Luminaire is ready to be suspended or surface mounted.

Construction

- Housing is constructed from steel in a standard white finish.
- Lens is frosted acrylic for uniform light distribution that's glare-free.
- End caps are high-impact injection molded PMMA material.

Optics

- Industry leading LEDs in 3500K, 4000K, or 5000K CCT (minimum 80 CRI).
- Color tuning option available.
- Lumen Maintenance >161,000 hours (L70) ¹

Warranty

- Backed by National LED's industry leading 10-year warranty.

Project	Date
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Catalog Number	Type
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Product Performance Summary

Lumen Output	Up to 9,730 lumens
Efficacy	Up to 145 LPW
CRI	≥ 80 CRI
Available CCT	3500K, 4000K, 5000K or Color Tuning (2700K-6500K) ⁴
Warranty	10-Year Warranty

Product Overview

Utilizing patented LED technology, the PJF1 is a low-profile linear solution that offers outstanding value and energy efficiency without compromising illumination. Designed for versatility, the PJF1 provides best-in-class performance for virtually any indoor lighting need. It's Ideal for lighting up manufacturing, commercial, warehouse, retail, or other display applications.

Product Applications

- Educational Facilities
- Convenience Stores
- Office Spaces
- Hallways/Corridors
- Industrial/Warehouse
- Mall/Retail Areas
- Health Care Facilities
- Commercial Spaces

Product Certifications/Approvals

- Complies with UL1598 and CSA 22.2
- DLC Premium Listed
- Suitable for indoor damp Locations
- RoHS Compliant



Ordering Information

Example: PJF1-1-4-1-35-ID-35-D

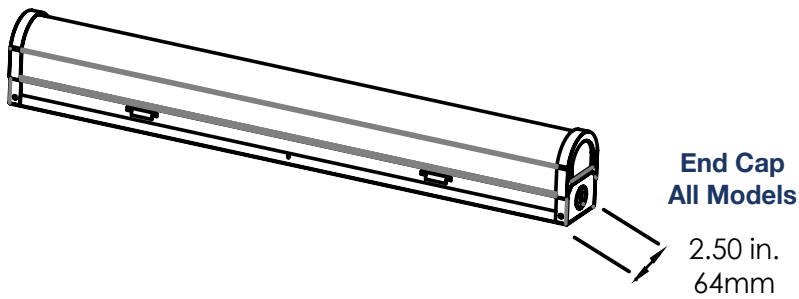
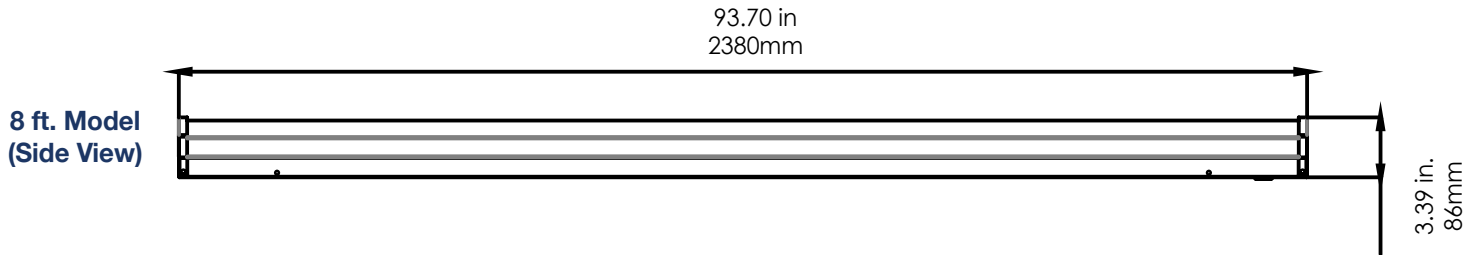
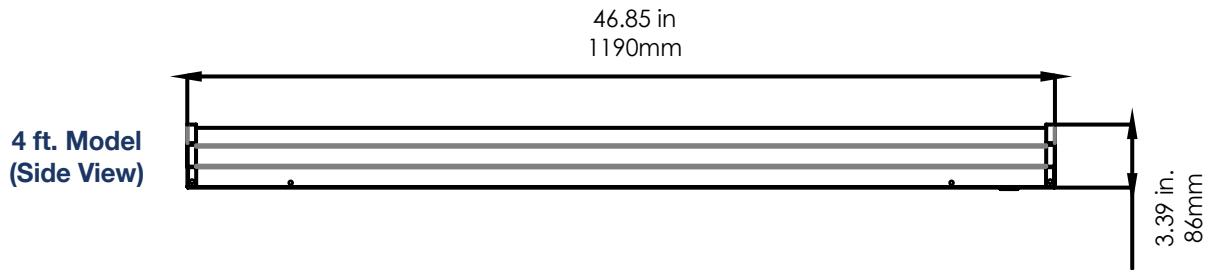
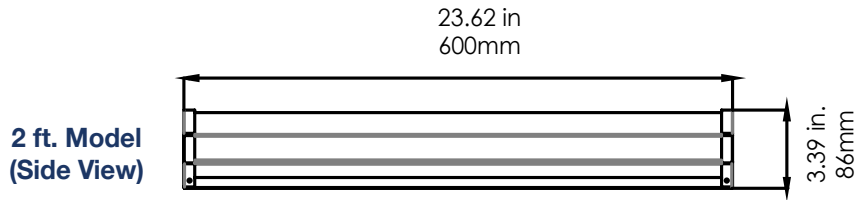
Series	Variant	Size	Input Voltage	Power	Driver	CCT	Control	Battery Back-Up
1	Standard	2 2 ft.	1 120-277V	17 17W	ID iNFiNi 0-10V	35 3500K	D 0-10V Dimming	Blank No Battery Back-Up
		4 4 ft.	C 120-347V	25 25W	B ⁴ Smart Blu™ Blu-Drive	40 4000K	1 LSXR-610-ADC ³	B Integrated Battery Back-Up ²
		8 8 ft.		30 30W		50 5000K		
				35 35W		T 2700K-6500K ⁴		
				50 50W				
				60 60W				
				70 70W				

Power Combinations		Smart Blu™ Combinations		
Size	Available Power	Size	Power	CCT ⁵
2 ft.	17W	2 ft.	17W	3500K, 4000K, 5000K
4 ft.	25W, 30W, 35W	4 ft.	25W, 30W, 35W	3500K, 4000K, 5000K
8 ft.	50W, 60W, 70W	8 ft.	50W, 60W, 70W	3500K, 4000K, 5000K

Power Cable Ordering Information				
Series	Variant	Length	Color	Conductors
PC	Power Cable	10 10 ft.	WH White	1 (3) Qty. Conductors
				2 (4) Qty. Conductors - Required for Battery Back-Up Option

1. Product 'Lifetimes' refer only to the LED light engine, not the power source, and are based on the Illuminating Engineering Society's TM21 Projected Lumen Maintenance methodology at a 25° C / 77° F ambient temperature. The lifetimes are solely meant to be a guide for expected LED degradation and not a warranty or predictive of their actual life, which can be affected by ambient temperatures and other factors.
 2. Only available with 4 ft. option.
 3. Option is a passive infrared sensor.
 4. Color tuning option only available with Smart Blu™ Blu-Drive Driver.
 5. If a specific CCT is ordered with Smart Blu™ Blu-Drive Driver, all lighting control benefits will be available except color tuning [Option T].

Dimensions



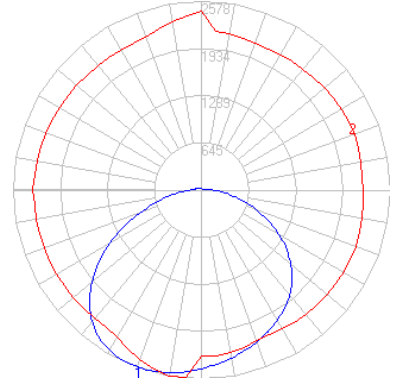
Performance Data

Luminaire Photometric Data

Model Number	PJF1-1-8-X-70-X-XX-X
Issue Date	07/09/2019
IESNA	LM-63-2002
Lamp	LED
Total Input Watts	68.8
Total Lumens	9,707
Efficacy	141 LPW
Spacing Criterion	0°-180° = 1.28 90°-270° = 1.46

Zonal Lumen Summary

Zone	Lumens	% Fixt
0-30	1926.40	19.80
0-40	3187.47	32.80
0-60	5825.18	60.00
0-90	8426.39	86.80
0-180	9706.71	100.00



Model	System Level Power	Delivered Lumens	Efficacy	CCT	L70 Calculate Life	L85 Calculate Life
PJF1-1-2-X-17-X-35-X	16.7W	2,320L	139 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-2-X-17-X-40-X	16.7W	2,340L	140 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-2-X-17-X-50-X	16.7W	2,380L	143 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-25-X-35-X	25.3W	3,570L	141 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-4-X-25-X-40-X	25.3W	3,600L	142 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-25-X-50-X	25.3W	3,660L	145 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-30-X-35-X	30.0W	4,230L	141 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-4-X-30-X-40-X	30.0W	4,260L	142 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-30-X-50-X	30.0W	4,340L	145 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-35-X-35-X	34.7W	4,850L	140 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-4-X-35-X-40-X	34.7W	4,860L	140 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-4-X-35-X-50-X	34.7W	4,860L	140 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-50-X-35-X	50.6W	7,140L	141 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-8-X-50-X-40-X	50.6W	7,200L	142 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-50-X-50-X	50.6W	7,330L	145 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-60-X-35-X	60.0W	8,450L	141 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-8-X-60-X-40-X	60.0W	8,530L	142 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-60-X-50-X	60.0W	8,680L	145 LPW	5000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-70-X-35-X	68.8W	9,700L	141 LPW	3500K	161,000 Hours	75,000 Hours
PJF1-1-8-X-70-X-40-X	68.8W	9,720L	141 LPW	4000K	161,000 Hours	75,000 Hours
PJF1-1-8-X-70-X-50-X	68.8W	9,730L	141 LPW	5000K	161,000 Hours	75,000 Hours

Accessories

LSXR-610-ADC - Passive Infrared Sensor | High/Low Mount 360° | Dimming/Switching Photocell

Overview

The LSXR Family of fixture mount occupancy sensors provides reliable and versatile solutions for commercial and industrial lighting control applications. All LSXR Family sensors utilize passive infrared (PIR) detection and feature interchangeable lenses, providing flexibility for multiple mounting height and coverage pattern requirements.

Key Features

- Four interchangeable lenses
- 100% digital PIR detection - provides excellent RF immunity
- No PIR field calibration or sensitivity adjustments required
- Powers from single or two-phase line connections
- Photocell and 0-10 VDC dimming options
- Digital push-button programming - no tools or analog adjustments required
- Non-volatile settings memory
- Convenient test mode - quickens initial walk and/or photocell testing
- LampMaximizer® minimum on timer (15 min) enables usage of shorter occupancy time delays while protecting fluorescent lamp life
- Default 10 minute occupancy time delay

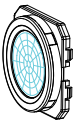


Specifications

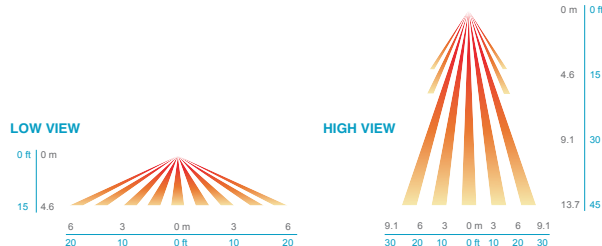
- Size (w/ Mounting Flange): 3.75" H x 2.50" W x 4.00" D (9.5 cm x 6.4 cm x 10.2 cm)
- Weight: 6 oz
- Mounting: 1/2" knockout (7/8" hole) on fixture
- Maximum Load: 800 W @ 120 VAC, 1200 W @ 277 VAC, 1000 W @ 208 VAC, 1200 W @ 240 VAC, 1500 W @ 347 VAC, 2160 W @ 480 VAC
- Motor Load: 1/4 HP
- Dimming Load: Sinks < 20 mA; (~ 40 LED drivers/ballasts @ 0.5 per) 0-10VDC dimmable ballasts or LED drivers only
- Temperature Rating: -20°C to 60°C for models with suffix LT
- -10°C to 60°C for all other models



HIGH MOUNT 360° LENS (#6)

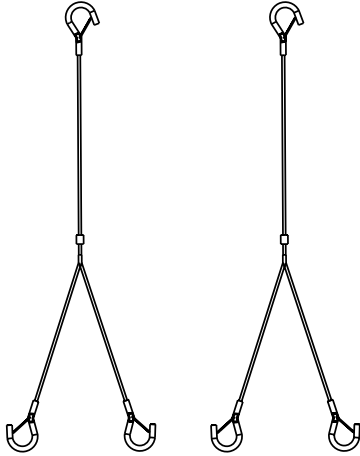


- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height
- Tested to NEMA WD 7-2011



Mounting

30184 - 5 ft. Hangar Cable with Y-Snap Hooks
(Sold Separately)



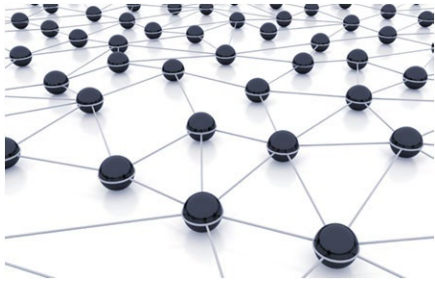
30200 - 20 ft. Aircraft Cable Mounting Kit

30202 - 10 ft. Aircraft Cable Mounting Kit
(Sold Separately)





*Simple, Affordable, and Effective
Bluetooth Lighting Control*
iOS and Android Compatible APP



SMART BLU™ is a wireless lighting control system that utilizes Bluetooth 4.0 Mesh Network technology to transmit lighting control data from a smartphone to Lights & Switches (**Nodes**). Nodes cooperate in the transmission of data to ensure integrity.

SMART BLU™ enables significant power and maintenance savings for LED lighting through simple automation processes while allowing for individual freedom to adjust as necessary.

Mesh Networks (**Zones**) can range from 1 to 100 Nodes maximum. Buildings may be divided into many different Zones with each having its own distinct encryption and QR Code. For example, a School may have classrooms, corridors, gym and offices divided into Zones. An Office Tower could have each floor divided into open area, perimeter offices, meeting rooms and reception Zones.



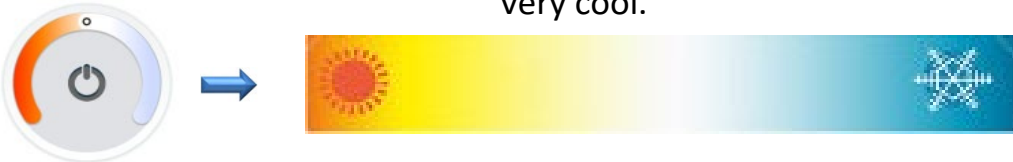
Nodes consist of Lights, Switches, & Gateways. Lights may include onboard motion detectors and daylight photo sensors.



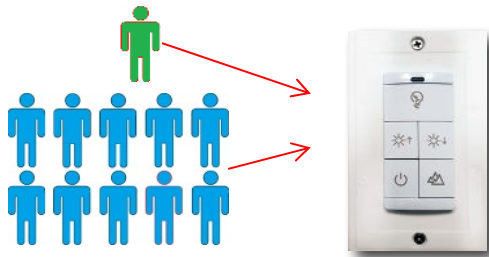
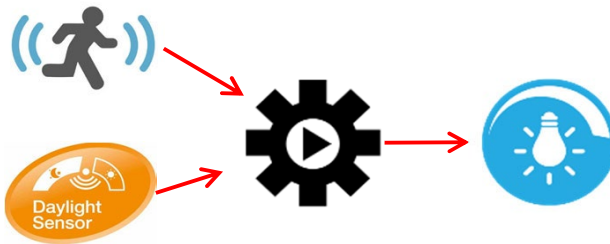
Smart Blu™ Bluetooth Lighting Control (Cont.)



Lights may be offered in one color (mono-dimmable) or in two colors (2-channel dimmable). 2-channel Lights may be color-tuned anywhere from very warm to very cool.

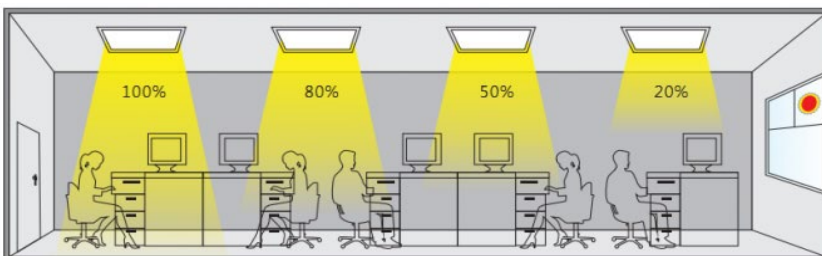
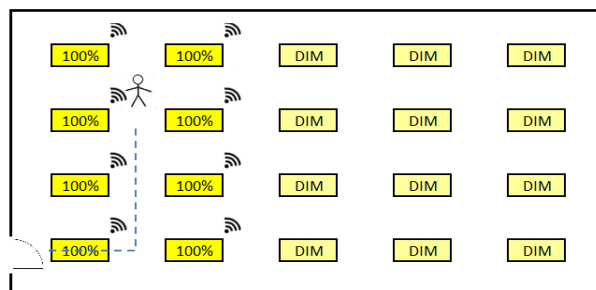


Lights may be supplied without sensors or they may be supplied with motion and/or photo sensors to allow automation of Light level control.



Lights may be controlled individually or in Groups. They can be set to operate automatically via sensors and/or respond to manual switches or smartphones.

Lights may also be linked such that if one Light motion sensor is tripped, all other Lights in the Group respond in unison thus making the whole space appear lit and less foreboding.



Daylight Harvesting is taking advantage of natural light that enters an interior space through windows by

adjusting artificial lighting to save power. **SMART BLU™** can dim Lights closest to windows lower than Lights further away from windows.




Automation Defaults

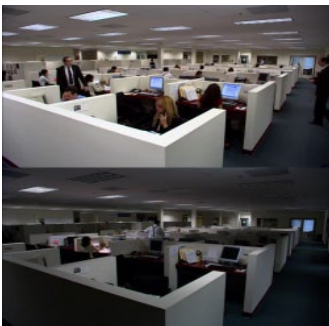


SMART BLU™ incorporates Motion and Photo detectors. Motion detectors sense the presence of people and Photo detectors measure light levels. When enabled, these detectors can automatically make light level adjustments within a space without requiring manual adjustments by the occupants. The idea is to Automatically provide the right amount of light when it is needed and to dim or shut lights Off when it is not. The purpose of making automatic adjustments is to **save on energy and maintenance costs.**

SMART BLU™ allows you to set Automation Defaults (Brightness, and Motion/Photo Detectors) for individual Lights or Groups of Lights. These may be disabled by choosing static Scenes via the APP or from physical Switches.

Automation Defaults may be set in two different sections of the APP; “Lights” and “Groups”. ***NOTE: If you set an Automation Default in one section, then alter the settings in another section, the LAST settings you make will be expressed by the system.***

An Automation icon  will appear in the following sections where it applies.



Scenes may be created with Groups and/or Individual Lights by adjusting brightness levels and color temperature (if available). Consider meeting rooms or classrooms when presentations are given and you wish to dim the light to view a smartboard or TV but still wish to provide light on the presenter.