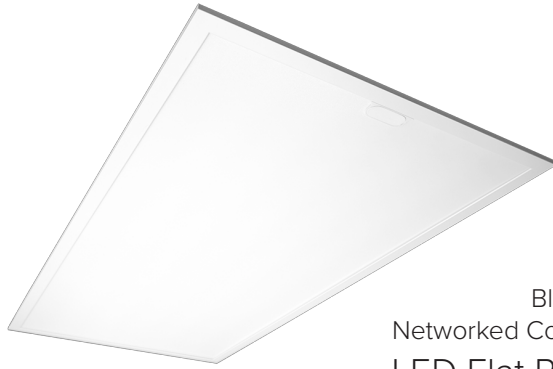




The  
**FPNN**<sup>TM</sup>  
Series

Bluetooth Mesh Networked Control Enabled  
LED Flat Panel Light





Bluetooth Mesh  
Networked Control Enabled  
LED Flat Panel Light

PROJECT: \_\_\_\_\_

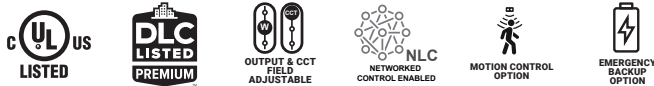
DATE: \_\_\_\_\_

TYPE: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_



KEY FEATURES
100,000-Hour LED lifespan
Bluetooth Mesh Networked Control enabled on all models
App-adjustable CCT & Lumen standard on all models
Optional motion sensor available
Battery backup option available



TECHNICAL SPECIFICATIONS

COMPLIANCE

**UL Listed**  
UL 1598 Suitable for damp locations, Type IC

**IESNA LM79 & LM-80 Testing**  
PacLights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

**DLC Qualification**  
Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.design-lights.org/qpl](http://www.design-lights.org/qpl)

LED CHARACTERISTICS

**LEDS**  
Long-life, high-eccacy, surface-mount LEDs

**Lifespan**  
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

**Color Rendering Index**  
>80

**Color Uniformity**  
PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

OTHER

**5-Year Limited Warranty\*\***  
The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

\*\*PacLights's warranty is subject to all terms and conditions found at [paclights.com/warranty](http://paclights.com/warranty)

CONSTRUCTION

**Ambient Temperature**  
Suitable for up to 45° C (113° F) ambient temperature

**Cold Weather Starting**  
The minimum starting temperature is -4 F°/-20° C

**Housing**  
Durable cold rolled steel and extruded aluminum housing provides strength and uniformity. Luminaire is pre-painted to enhanced smooth finish.

**IC Rated**  
Suitable for direct contact with insulation

**Mounting Methods**  
- T-grid lay-in (standard)  
- Surface mount (optional)  
- Drywall recessed flange (optional)  
- Suspended (optional)

**Green Technology**  
Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

**Lens**  
Frosted Polystyrene lens

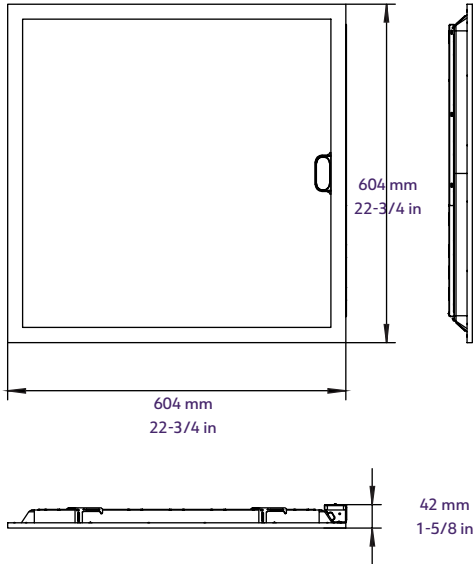
ELECTRICAL

**Driver**  
Bluetooth mesh networked control module intergrated and Enabled. Continuous dimming with smart device APP or bluetooth networked remote/wall switch, can be dim to off. Produces no greater than 30 percent flicker at 200 Hz or below when paired with control devices per CEC Title 24 JA10. Power Factor : > 0.95; THD < 8% Wattage (APP-Trimable):  
FPNN-22D30: 30w; FPNN-24D50: 50w; FPNN-14D30: 30w  
Input Voltage: 120-277V, 50-60 Hz  
Input Current: FPNN-22D30: 0.28A (120v); 0.16A (208v); 0.14A (240v); 0.12A (277v)  
FPNN-24D50: 0.46A (120v); 0.27A (208v); 0.23A (240v); 0.20A (277v)  
FPNN-14D30: 0.28A (120v); 0.16A (208v); 0.14A (240v); 0.12A (277v)

TECHNICAL SPECIFICATIONS Continued

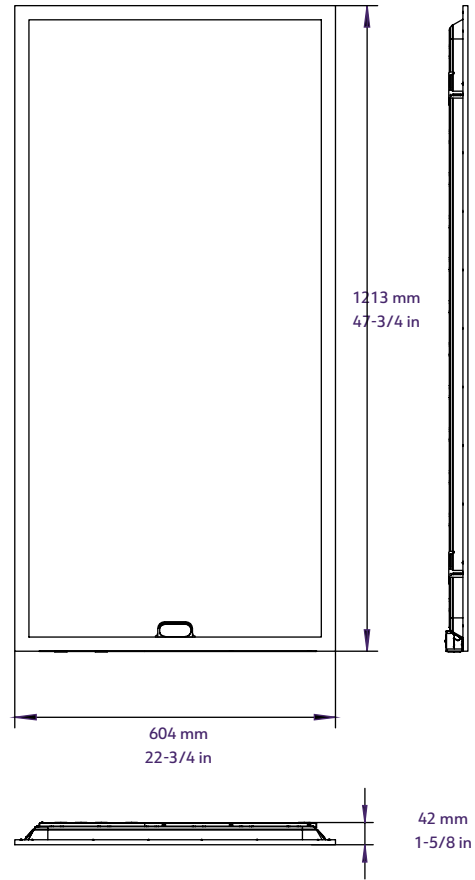
FPNN - 22D30 (2x2 Ft)

Weight 5.9 lbs



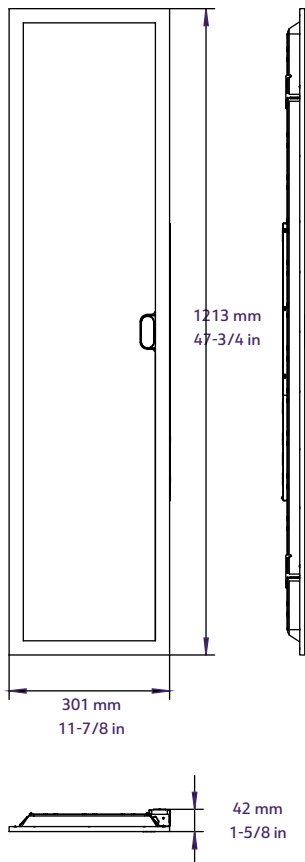
FPNN - 24D50 (2x4 Ft)

Weight 9.3 lbs



FPNN - 14D30 (1x4 Ft)

Weight 4.5 lbs



FINISHES	
all models	White

## FIELD ADJUSTABLE Standard

### APP-ADJUSTABLE CCT & LUMEN



Trim to the desired output lumen by percentage, or select light color temperature by using the smart device APP.

OUTPUT & CCT FIELD ADJUSTABLE

CCT can be adjusted to 3000/3500/4000/5000K, and lumen output (high trim) can be set to as low as 50%.

## EMERGENCY BACKUP Optional

### EMERGENCY BACKUP (-EM)



EMERGENCY BACKUP OPTION

FPNN series emergency backup models works out of the box to save time and cost in the installation. When there is a power outage, the emergency backup driver and battery will power the LEDs of FPNN to an brightness of 1,200 lumen for at least 90 mins.

Note: -EM option will not provide battery backup for FPNN intergrated bluetooth networked components, a RTC device (purchased separately) is recommended per zone if scheduling function is required, otherwise NLC time sync using the smart device APP will be required after each power outage.

## CONTROL Standard

### Networked Lighting Controls



All models of FPNN are Bluetooth Networked Control (NLC) Enabled.

Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLLC) based on Bluetooth-enabled Mesh Networking of Luminaires. Individual addressability enables luminaires to be communicated with each other within the zone/network. Luminaires can be grouped, trim and controlled by using the smart device app or connected wall switches. Scheduling, scene and sensors can be added for automation among the lights within the zone/group.



iOS/Andriod APP will be used to commissioning or customize settings of the networked controls.



**(-WBP)** Optional plug-and-play PIR occupancy and daylight harvesting sensor.

## PERFORMANCE

### FPNN - 22D30 (2x2 Ft)

30W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	3,750	3,780	3,810	3,840
LM/W	125	126	127	128

### FPNN - 24D50 (2x4 Ft)

50W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	6,250	6,300	6,350	6,400
LM/W	125	126	127	128

### FPNN - 14D30 (1x4 Ft)

30W	3000K Warm	3500K Warm	4000K Neutral	5000K Daylight
LUMENS	3,750	3,780	3,810	3,840
LM/W	125	126	127	128

\* Max lumen values are shown for each CCT, can be trimmed to the desired output lumen (by percentage) in the App.

## ORDERING INFORMATION

### FPNN™

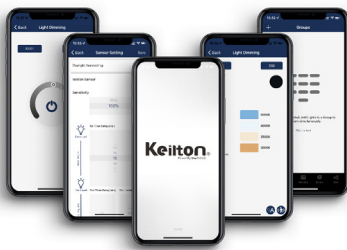
Family	Model	Optional Function	Optional Addons
FPNN	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<b>22D30</b> 2ft x 2ft; 30w Trimmable; 3000/3500/4000/5000K CCT Adjustable <b>24D50</b> 2ft x 4ft; 50w Trimmable; 3000/3500/4000/5000K CCT Adjustable <b>14D30</b> 1ft x 4ft; 30w Trimmable; 3000/3500/4000/5000K CCT Adjustable	<b>WBP</b> PIR and daylight sensor <b>EM</b> Emergency battery backup	<b>SM</b> Surface mount <b>DG</b> Drywall flange <b>SP</b> Suspended kit

# NETWORKED CONTROLS MADE EASY

**Keilton Networked Controls**, a DLC® Qualified Networked Lighting Controls Product, make it easy for facilities to save energy, improve occupancy comfort and achieve code compliance by adding Luminaire Level Lighting Controls (LLLC) to indoor and outdoor applications. It allows for easy field installation of sensors and network nodes with selected PacLights controls ready fixtures. Using the Keilton app, nodes can be commissioned without the need for a gateway or internet access.



**A Cost-Effective Decentralized Architecture**  
**Direct Mobile Device Provisioning**  
**Best-In-Class Scale, Performance & Reliability**



## FEATURES

- Luminaire Level Lighting Control (LLLC)
- Bluetooth-enabled Mesh Networking of Luminaires and Devices
- Individual Addressability, address individual or multiple luminaires
- High-end and Low-end Trim
- Zoning & Grouping
  - ◊ Add and control up to 100 devices per zone
  - ◊ Add unlimited zones to scale for bigger installation
  - ◊ Create unlimited groups (combination of sensor or network nodes) within a zone
  - ◊ Link and control the whole group or zone
- Scene control
  - ◊ Create and link scenes to individual lights or groups within a zone
  - ◊ Select scene with App or wall switch
- Time Scheduling for individual lights, groups or scenes
- Sensors integrated with BLE, occupancy and daylight sensing
- Multi-level Dimming, Daylight Harvesting and Occupancy controls
- Manual/Automatic ON/OFF and Automatic partial ON/OFF control capability
- Control via smart device App or wireless wall switch
- Secure commissioning with Keilton App
- Up to 100 ft node-to-node and 50 ft node-to-device
- Other control features to meet code compliance

Keilton and its logo is a trademark of Litetrace; PacLights and its logo is a trademark of PacLights, LLC  
 DLC and its logo is a trademark of DesignLights Consortium.  
 Keilton is the qualified system name listed on the DLC Networked Lighting Controls QPL.




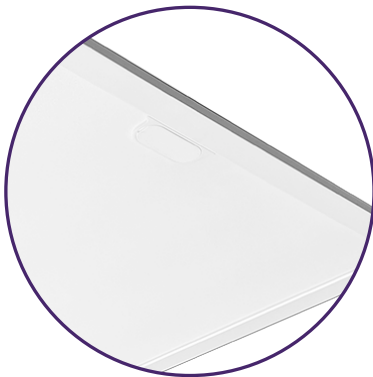
# NETWORKED CONTROL ENABLED

## FPNN series



### OPTIONAL SENSOR ADD-ON

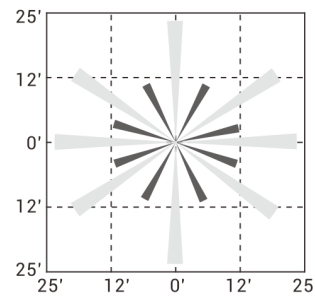
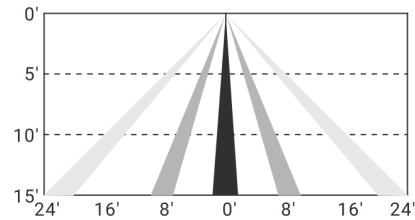
SKU	DESCRIPTION	FUNCTION	OPTION ORDER CODE
KEILTON-IFS108E	 KEILTON IFS108E ECO PIR DLH SENSOR	Enable sensor functionality to a NLC node - PIR occupancy & daylight (harvesting) sensing.	<b>-WBP</b>



without sensor



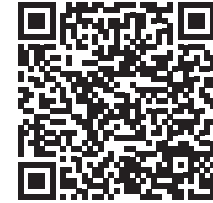
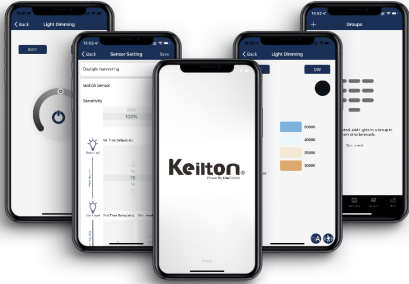
with sensor installed





Height 15ft

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## COMMISSION & CONTROL SMART DEVICE APP



## NETWORKED WALL SWITCH

SKU	DESCRIPTION	FUNCTION	APPLICATION
KEILTON-WP1025	 <p>KEILTON WP1025 BATTERY 5 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER</p>	<p>Switch on/off, dim, or select up to 3 scenes, of an individual light or a group of lights (defined in the commissioning App). Battery powered.</p>	<p>Field installed, ideal for flexible or additional wall switch placement, indoor</p>
KEILTON-WP1017S	 <p>KEILTON WP1017S AC 7 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER</p>	<p>Switch on/off, dim, or select up to 4 scenes, of an individual light or a group of lights (defined in the commissioning App). 120-277v AC powered.</p>	<p>Field installed, ideal for retrofitting existing wall switch, neutral wire (AC) is required, indoor</p>

## OTHER

SKU	DESCRIPTION	FUNCTION	APPLICATION
KEILTON-CR01	 <p>KEILTON CR01 ENERGY MONITORING USB DONGLE W/ RTC</p>	<p>Records energy consumption of the assigned Zone. Offers real-time-clock (RTC) Sync of the Zone. USB (5v) powered, internal battery for RTC.</p>	<p>Field installed, one per Zone to satisfy energy audit, or to provide off-the-App time/schedule recovery from power-outage of the site.</p>

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