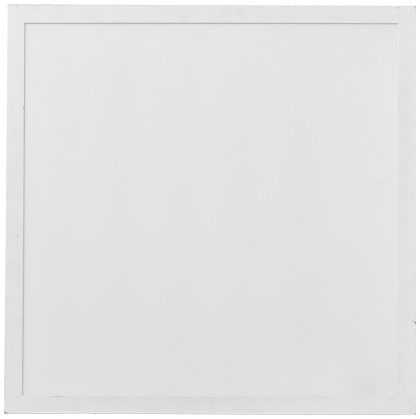
PacLights

Commercial & Industrial Lighting

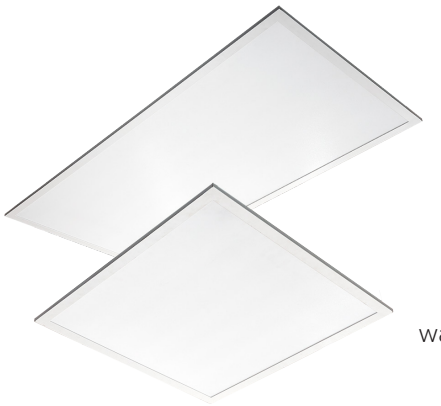


The FPNB™ Series

wattage & color selectable

LED Flat Panel Light

FPNB™ generation 3



wattage & color selectable

LED Flat Planel

PROJECT:

DATE:

TYPE:

PREPARED BY:

5 YEAR WARRANTY

KEY FEATURES
100,000-Hour LED lifespan
Color & wattage selectable standard on all models
Optional **surface or recessed mount** kits available
Multisensor control and **networked control** models 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

LED CHARACTERISTICS

LEDS
Long-life, high-ecacy, surface-mount LEDs

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

Correlated Color Temperature (CCT)
CCT can be adjusted by dip-switch to 3500K/4000K/5000K

Color Rendering Index
>80

Color Uniformity
PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specications 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

CONSTRUCTION

Ambient Temperature
Suitable for 50° C (122° F) ambient temperature

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

Housing
Lightweight aluminum housing, steel pan and junction box

IC Rated
Suitable for direct contact with insulation

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

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

ELECTRICAL

Drivers
0-10V continuous dimming, can be dim to 10%
Input Voltage: 120-277V, 50-60 Hz
Power Factor : > 0.9

Wattage can be adjusted by dip-switch, to:
• 50w / 40w / 30w on FPNB/3-24D models
• 40w / 30w / 25w on FPNB/3-22D or FPNB/3-14D models

Input Current: FPNB/3-22D: 0.37A (120v); 0.21A (208v); 0.18A (240v); 0.16A (277v).
FPNB/3-24D: 0.46A (120v); 0.26A (208v); 0.23A (240v); 0.20A (277v).
FPNB/3-14D: 0.37A (120v); 0.21A (208v); 0.18A (240v); 0.16A (277v).

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FIELD SELECTABLE Standard

TOOL-LESS FIELD SELECTABLE CCT & WATTAGE

OUTPUT & CCT FIELD ADJUSTABLE

Select the desired output power or light color temperature by sliding the respective Output Power or CCT Selection Switch left or right to the desired value.

CCT can be adjusted to 3500/4000/5000K, and Output Power can be adjusted to:

- 40w / 30w / 25w on 2x2 and 1x4 models
- 50w / 40w / 30w on 2x4 models

EMERGENCY BACKUP Option

EMERGENCY BATTERY BACKUP (-EM)

EMERGENCY BACKUP OPTION

FPNB 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 FPNB to an reduced brightness of 1,000 lumen for at least 90 mins.

CONTROL Options

Passive Infrared Bi-level Motion and Daylight Sensor Control (option: -MC)

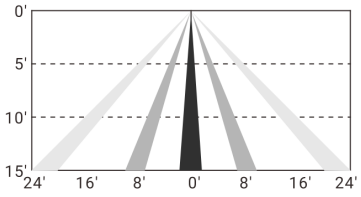
MOTION CONTROL OPTION

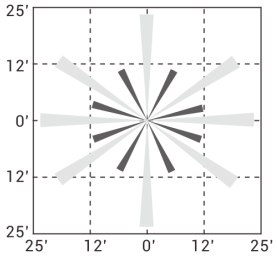
DAYLIGHT HARVESTING OPTION

A PIR sensor can detect changes in the amount of infrared radiation impinging upon it, which varies depending on the temperature and surface characteristics of the objects in front of the sensor. Its signature 3-step dimming function is perfect for areas that require a light change notice totally switching off the light. Daylight harvesting function also reduces electric light in building interiors when daylight is available. Control parameters are adjustable by an optional wireless commissioning device.

- Fixture integral
- PIR motion
- Daylight threshold
- Daylight harvesting
- Wireless configurable

Optional wireless commissioning device can be purchase separately to customize settings.





Height 15ft

-MC Sensor Control Option Specification *default setting

Manual Trim/Dim	0%-100%; Quick Preset 50%/75%/100%*
Sensitivity	Sensor-Off/50%/100%*
Hold Time (before dim)	30s/5min*/15min/30min
Daylight Threshold	1/20/50 Fc, or Disable*, or current lux level (CAL)
Daylight Harvesting	Set to desired light level, Enable/Disable*
Stand-by Time(before turn off)	10s/5min/15min/30min*/1h, or Never
Stand-by Dimming Level	10%/30%/50%*
Detection Height	up to 15ft
Detection Radius	up to 48ft

Networked Lighting Controls (option: -WBP)

NLC NETWORKED CONTROL OPTION

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.

- **(-WBP)** Wireless bluetooth networked control with PIR occupancy and daylight harvesting sensor

iOS/Andriod APP will be used to commissioning or customize settings

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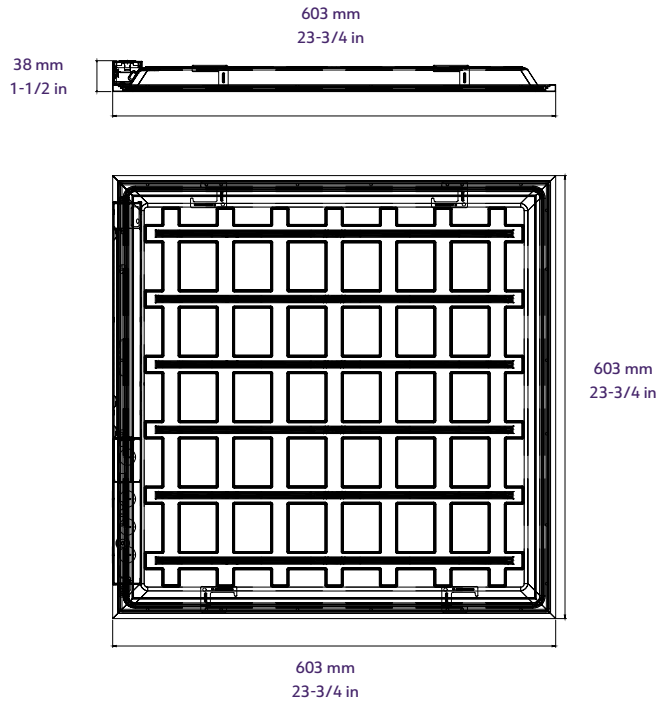
DIMENSIONS

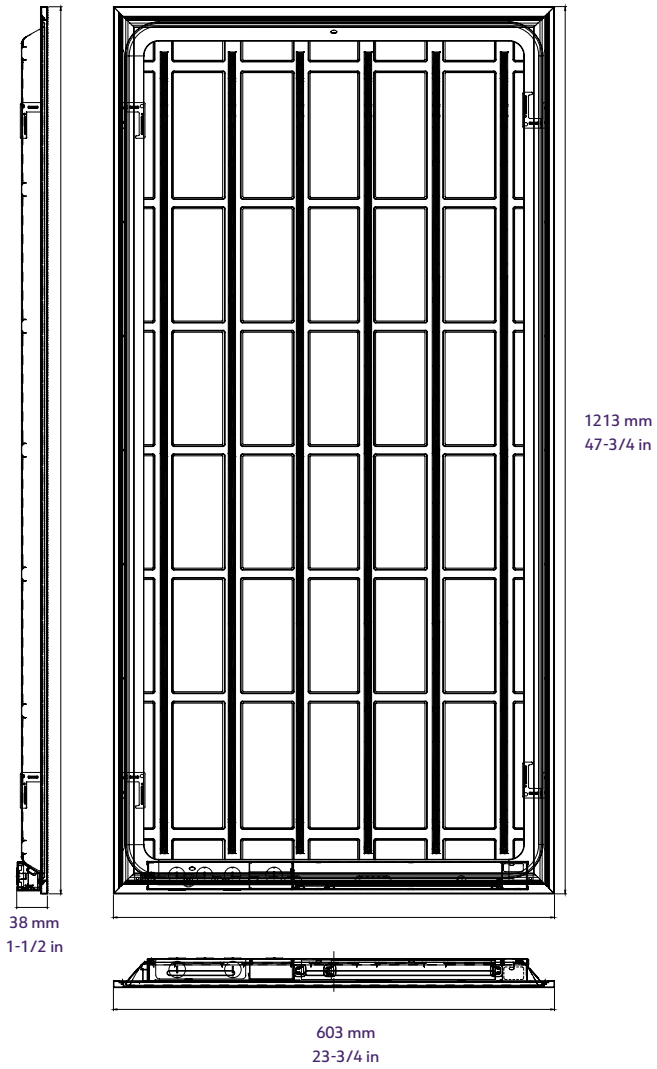
FPNB/3 - 22D (2x2 Ft)

Weight 5.8 lbs



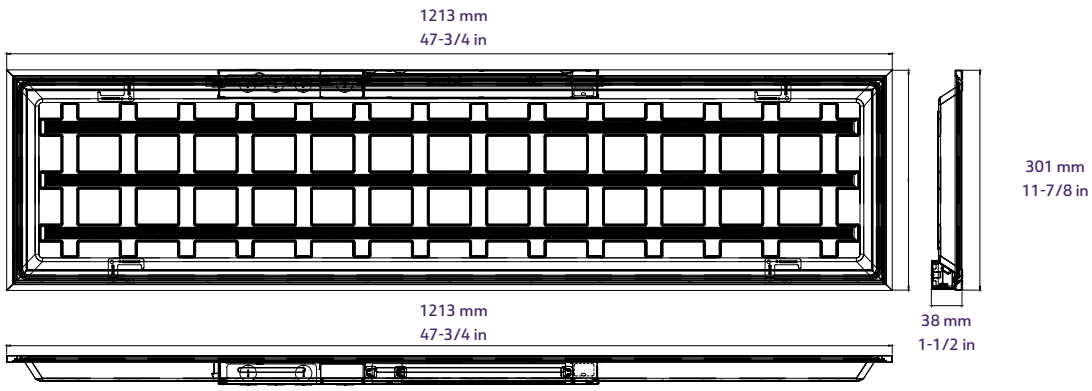
FPNB/3 - 24D (2x4 Ft)

Weight 9.3 lbs



FPNB/3 - 14D (1x4 Ft)

Weight 4.5 lbs



FINISHES	
all models	White

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PERFORMANCE

Models	Wattage Setting	CCT Setting	Lumen Output
FPNB/3-22D	40w	3500K	4,400
		4000K	4,800
		5000K	4,480
	30w	3500K	3,570
		4000K	3,870
		5000K	3,630
	25w	3500K	3,100
		4000K	3,350
		5000K	3,150

Models	Wattage Setting	CCT Setting	Lumen Output
FPNB/3-24D	50w	3500K	5,550
		4000K	6,050
		5000K	5,650
	40w	3500K	4,680
		4000K	5,080
		5000K	4,760
	30w	3500K	3,570
		4000K	3,870
		5000K	3,630

Models	Wattage Setting	CCT Setting	Lumen Output
FPNB/3-14D	40w	3500K	4,400
		4000K	4,800
		5000K	4,480
	30w	3500K	3,570
		4000K	3,870
		5000K	3,630
	25w	3500K	3,100
		4000K	3,350
		5000K	3,150

ORDERING INFORMATION

FPNB™ generation 3

Family	Model	Control	Emergency Backup	Optional Mounts
FPNB/3	–	–	–	–

22D
2ft x 2ft, 40W/30W/25W Selectable, 3500K/4000K/5000K CCT Selectable.
24D
2ft x 4ft, 50W/40W/30W Selectable, 3500K/4000K/5000K CCT Selectable.
14D
1ft x 4ft, 40W/30W/25W Selectable, 3500K/4000K/5000K CCT Selectable.

[blank]
none
MC
PIR bi-level motion and daylight harvesting sensor
WBP
Wireless bluetooth networked control w/ PIR motion and day-light sensor (NLC)

[blank]
none
EM
Emergency battery backup

[blank]
none
SM
Surface mount
DG
Drywall flange

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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.

Keilton®

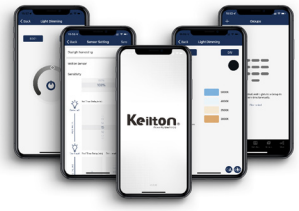
DLC LISTED

A Cost-Effective Decentralized Architecture

Direct Mobile Device Provisioning

Best-In-Class Scale, Performance & Reliability

INSTALL COMMISSION CONTROL



LEARN MORE, VISIT
www.paclights.com/NLC

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 with wireless wall switch or smart device
- Secure commissioning with Keilton App
- Up to 100 ft node-to-node and 50 ft node-to-device
- Demand Response option (works with OpenADR gateways)
- Controlled 120v 20A Receptacle available
- Other control features to meet code compliance

Bluetooth® Security Capabilities Verified GOLD UL SUPPORTS T24 COMPLIANCE

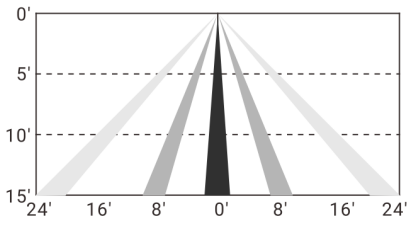
Keilton and its logo is a trademark of Litetrace; **PacLights** and its logo is a trademark of PacLights, LLC
DLC and its logo is a trademark of DesignLights Consortium.
Keilton is the qualified system name listed on the DLC Networked Lighting Controls QPL.

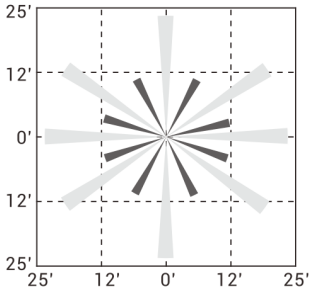
NETWORKED CONTROLS for FPNB series Gen.3

PacLights

NETWORKED NODES WITH SENSOR

SKU		DESCRIPTION	FUNCTION	OPTION ORDER CODE
KEILTON-IFS108		KEILTON IFS108 DC BLUE-TOOTH MESH NODE W/ PIR DLH SENSOR	Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc. And, PIR occupancy & daylight (harvesting) sensing.	**-WBP**





Height 15ft

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