The
FLHB™
Series

LED Linear Highbay

FLHB™ generation 2

PacLights

LED Linear Highbay

PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____

5 YEAR WARRANTY

c(UL)us LISTED · DLC LISTED PREMIUM · OUTPUT & CCT FIELD ADJUSTABLE · MOTION CONTROL OPTION · EMERGENCY BACKUP OPTION · NLC NETWORKED CONTROL OPTION

KEY FEATURES

Field-selectable Wattage & Color (CCT) on all models

Compact design for easy deployment

Low glare PMMA lens optimized for visual comfort

Optional **Bi-level motion** and **Networked** lighting controls

Emergency backup option

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed
UL 1598, Suitable for Damp Location

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-efficacy, surface-mount LEDs

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

Color Rendering Index
>82

Correlated Color Temperature
4000K and 5000K CCT selectable with a dip switch

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

IP Rating
IP20 rated

Ambient Temperature
Suitable for up to 50° C (122° F) ambient temperature when fixture is suspended at least 18" from ceiling

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

Mounting Methods
Comes standard with v-hook and chains. Accessories available for aircraft cable mounting (up to 120" or 196"), surface mounting, or conduit/pendant mounting.

Green Technology
Mercury and UV free, and RoHS compliant.

Lens
Frosted, PMMA

ELECTRICAL

Drivers
Class 2. Input Voltage: 120-277v AC (optional 480v), 50-60 Hz; 0-10V dimming (dim-to-off); Power Factor > 0.95; THD < 20% ; Surge protected 6kV Common and 4kV Differential Mode.

Wattage / Input Voltage / Input Current
Wattage selectable with a dip switch on all models

Models	Wattage	120v	208v	240v	277v	480v (optional)
FLHB/2-15LM	100w	0.93A	0.53A	0.46A	0.40A	0.23A
FLHB/2-17LM	115w	1.06A	0.61A	0.53A	0.46A	0.27A
FLHB/2-20LM	135w	1.25A	0.72A	0.63A	0.54A	0.31A
FLHB/2-23LM	155w	1.44A	0.83A	0.72A	0.62A	0.36A
FLHB/2-28LM	185w	1.71A	0.99A	0.86A	0.74A	0.43A
FLHB/2-30LM	200w	1.85A	1.07A	0.93A	0.80A	0.46A
FLHB/2-34LM	230w	2.13A	1.23A	1.06A	0.92A	0.53A
FLHB/2-40LM	270w	2.50A	1.44A	1.25A	1.08A	0.63A
FLHB/2-50LM	340w	3.15A	1.82A	1.57A	1.36A	0.79A
FLHB/2-60LM	400w	3.70A	2.14A	1.85A	1.60A	0.93A

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ORDERING INFORMATION

FLHB™ generation 2

FAMILY	MODEL	CCT	CONTROL	EMERGENCY BACKUP	MOUNTS	OTHER
FLHB/2	— MODEL —	CCT —	CONTROL —	EMERGENCY —	MOUNTS —	OTHER

EXAMPLE
FLHB/2-30/28/23LM-8CT
FLHB/2-30LM-8CT-MCP-SM-6FTAC-PL7_15P
FLHB/2-60LM-8CT-EM9000-ACS-WG

MODEL

* MUST SELECT ONE

CODE	LUMEN PACKAGE	WATTAGE
15LM	15,000	100w
17LM	17,000	115w
20LM	20,000	135w
23LM	23,000	155w
28LM	28,000	185w
30LM	30,000	200w
34LM	34,000	230w
40LM	40,000	270w
50LM	50,000	340w
60LM	60,000	400w

CODE	LUMEN SELECTABLE	WATT. SELECTABLE
20/17/15LM	20,000 17,000 15,000	135w 115w 100w
30/28/23LM	30,000 28,000 23,000	200w 185w 155w
40/34LM	40,000 34,000	270w 230w
60/50LM	60,000 50,000	400w 340w

CCT

* MUST SELECT ONE

CODE	CRI	CCT SELECTABLE
8CT	> 82	4000K/5000K

CONTROL

* LEAVE BLANK, or SELECT ONE

CODE	TYPE	PARTS SKU	SENSOR	MOUNT	INSTALL
MCP	Standalone	SE-BC-BRI819PBD	PIR & Daylight Threshold	End mount	FIELD
MCW		SE-BC-BRI819BD	Microwave & Daylight Threshold	End mount	FIELD
MCD		SE-BC-BRI819BVAL	Microwave & Daylight Harvesting	End mount	FIELD
WBP	Bluetooth Networked	KEILTON-EFS104	PIR & Daylight	End mount	FIELD

EMERGENCY BATTERY BACKUP

* LEAVE BLANK, or SELECT ONE

CODE	INPUT VOLTAGE	PARTS SKU	WATT	EMERGENCY LUMEN	COMPATIBLE	EMERGENCY RUNTIME	INSTALL
EM4500	120-277v	EMC-30	30w	4,500 Lumen	models up to 200w (up to 30LM)		
	480v	EMC-30-H					
EM6000	120-277v	EMC-40	40w	6,000 Lumen	models up to 270w (up to 40LM)	> 90 mins	FACTORY
	480v	EMC-40-H					
EM9000	120-277v	EMC-60	60w	9,000 Lumen	All models		
	480v	EMC-60-H					

ORDERING INFORMATION continued

MOUNTS

* LEAVE BLANK (v-hook and chains included), or SELECT ONE

CODE	PARTS SKU	TYPE	INSTALL
ACS	AC-LHB-ACS	Aircraft Cable Kit, adjustable up to 120"	
ACL	AC-LHB-ACL	Aircraft Cable Kit, adjustable up to 196"	FIELD
SM	AC-LHB2-SFM	Surface Mount Kit	
PM	AC-LHB2-PEM	Pendant/Conduit Mount Kit, 3/4" NPT	

OTHER

* LEAVE BLANK, or SELECT ONE or MORE (connect with "-")

Wire Guard

CODE	PARTS SKU	COMPATIBLE	INSTALL
WG	AC-LHB2-WGS	20LM, 17LM, 15LM models	
	AC-LHB2-WGM	30LM, 28LM, 23LM models	FIELD
	AC-LHB2-WGL	40LM, 34LM models	
	AC-LHB2-WGX	60LM, 50LM models	

480v Input Upgrade

CODE	PARTS SKU	COMPATIBLE	INSTALL
HV	TK-KTAT-250-480-277-SF	30LM, 28LM, 23LM, 20LM, 17LM, 15LM models	
	TK-KTAT-375-480-277-SF	40LM, 34LM models	FACTORY
	(2) TK-KTAT-250-480-277-SF	60LM, 50LM models	

Cord

* can be ordered in multiple of 6', such as 12FTAC, 18FTAC, etc.

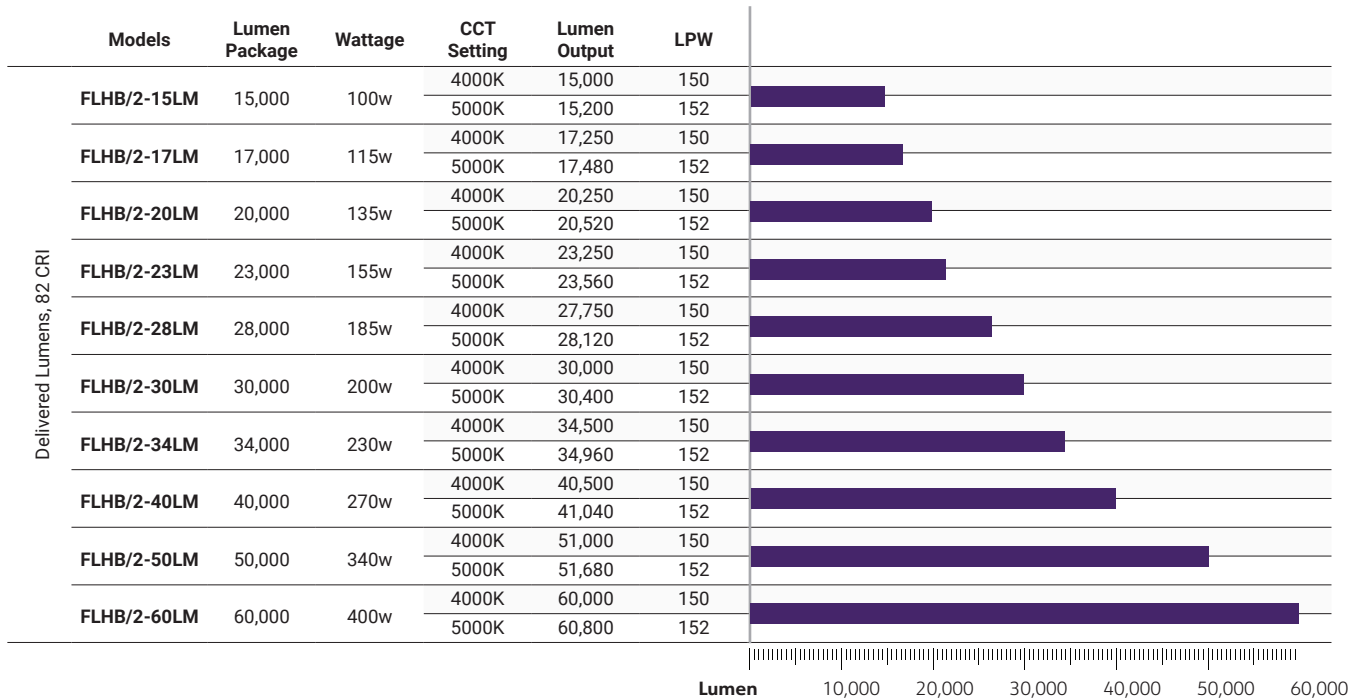| CODE	PARTS SKU	TYPE	COMPATIBLE	INSTALL
6FTAC	OS-GL-ES-183-SJT-W-72	6' cord, 3-wires (L/N/G)	Standard Models	
6FTAD	OS-GL-ES-185-SJT-W-72	6' cord, 5-wires (L/N/G and 0-10v dimming)		FACTORY
6FTACS	OS-GL-ES-184-SJT-W-72	6' cord, 4-wires (L/N/G and Switch)	Emergency Backup Models	
6FTADS	OS-GL-ES-186-SJT-W-72	6' cord, 6-wires (L/N/G, Switch and 0-10v dimming)		

Plug

CODE	PARTS SKU	TYPE	Voltage	COMPATIBLE		INSTALL
P5_15P	PLUG-5-15P	5-15P Plug	120v	Standard Models	must also select "3-wires cord" option	
PL7_15P	PLUG-L7-15P	L7-15P Twist Lock Plug	277v	Standard Models		FACTORY
PL8_20P	PLUG-L8-20P	L8-20P Twist Lock Plug	480v	480v ("HV") Models		

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PERFORMANCE

	Models	Lumen Package	Wattage	CCT Setting	Lumen Output	LPW	
Delivered Lumens, 82 CRI	**FLHB/2-15LM**	15,000	100w	4000K	15,000	150	
				5000K	15,200	152	
	FLHB/2-17LM	17,000	115w	4000K	17,250	150	
				5000K	17,480	152	
	FLHB/2-20LM	20,000	135w	4000K	20,250	150	
				5000K	20,520	152	
	FLHB/2-23LM	23,000	155w	4000K	23,250	150	
				5000K	23,560	152	
	FLHB/2-28LM	28,000	185w	4000K	27,750	150	
				5000K	28,120	152	
	FLHB/2-30LM	30,000	200w	4000K	30,000	150	
				5000K	30,400	152	
	FLHB/2-34LM	34,000	230w	4000K	34,500	150	
				5000K	34,960	152	
	FLHB/2-40LM	40,000	270w	4000K	40,500	150	
				5000K	41,040	152	
	FLHB/2-50LM	50,000	340w	4000K	51,000	150	
				5000K	51,680	152	
	FLHB/2-60LM	60,000	400w	4000K	60,000	150	
				5000K	60,800	152	

Lumen 10,000 20,000 30,000 40,000 50,000 60,000

STANDARD FEATURES

Field Selectable Wattage and Color (CCT)

OUTPUT & CCT FIELD ADJUSTABLE

Select the desired output light color temperature by sliding the respective CCT Selection Switch left and right to 4000K (Neutral white) or 5000K (Daylight). Also for the wattage with another dip switch. It can be adjusted before, during and after installation. It offers flexibility on site and reduce complexity of models on preparing installation.

Compact Size for Easy and Fast Deployment

The compact size of the FLHB models accelerates the installation process significantly, even though they deliver the same lumen performance as full-sized linear high bay lights. This smaller design greatly reduces the time and labor costs associated with large-scale deployments, making it an efficient and cost-effective lighting solution for extensive areas.

CONTROL Options

Standalone Sensor Controls (option: -MCP/-MCW/-MCD)

Passive Infrared Bi-level Motion & Daylight Control (option: -MCP)

MOTION CONTROL OPTION

A PIR (Passive Infrared) sensor is capable of detecting variations in infrared radiation, which depend on the temperature and surface properties of objects in its field of view. This sensor has a 3-step dimming function, which is ideal for areas needing gradual light adjustments before a complete shutdown. Additionally, if the daylight function is activated, the sensor can turn off the light based on a preset level of ambient light. The settings for these functions can be fine-tuned with the dip switches on the sensor, or using an optional wireless commissioning device.

Microwave Bi-level Motion & Daylight Control (option: -MCW)

MOTION CONTROL OPTION

Microwave occupancy control sensors are designed to detect motion through materials such as plastic, glass, and thin non-metallic substances. They are equipped with a 3-step dimming function that is ideal for areas where gradual changes in lighting are preferred before a complete shutdown. If the daylight sensor feature is activated, it can turn off the light based on predetermined levels of ambient light. The settings for these functions can be fine-tuned with the dip switches on the sensor, or using an optional wireless commissioning device.

Motion and Daylight Harvesting Control (option: -MCD)

DAYLIGHT HARVESTING OPTION

In addition to all the features offered by a microwave bi-level occupancy control, daylight harvesting control further reduces the use of electric lighting in building interiors when natural daylight is available. This function adjusts the artificial lighting levels based on the amount of natural light entering the space, enhancing energy efficiency and providing a more sustainable lighting solution.

Option: -MCP
SKU: SE-BC-BRI819PBD

Option: -MCW
SKU: SE-BC-BRI819BD

Option: -MCD
SKU: SE-BC-BRI819BVAL

Optional
wireless commissioning
remote device
SKU: SE-BC-RC-100

-MCP / -MCW / -MCD Controls Specification *default setting

Sensitivity	20%/50%/75%/100%*
Hold Time (before dim)	10s*/1min/5min/10min/15min/20min/30min/60min
Daylight Threshold	10/30*/50/100/300/500 Lux, or Disable
Stand-by Time(before turn off)	1min/30min/60min*, or Never
Stand-by Dimming Level	10%/30%*/50%
Detection Height	up to 40ft
Detection Radius	up to 50ft

Networked Lighting Control (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

Option: -WBP
SKU: KEILTON-EFS104

FREE iOS/Andriod APP will be used to commissioning or customize settings of networked controls.
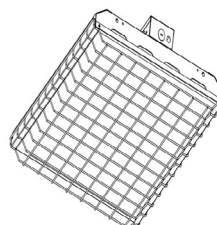
EMERGENCY BACKUP Option

Emergency Battery Backup

EMERGENCY BACKUP OPTION

When there is a power outage, the emergency backup driver and battery will power the FLHB to an brightness up to 9,000 lumen for at least 90 mins *
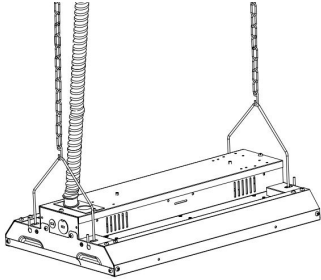
WIREGUARD Option

Wire Guard

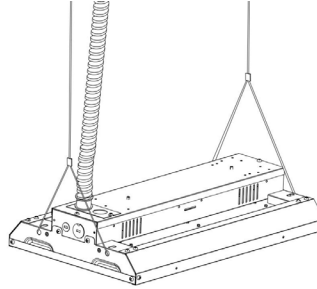Optional wire guards can be attached to FLHB High Bays to provide extra protection from physical damage.

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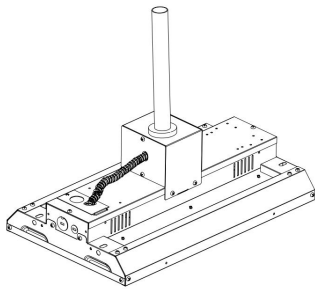## MOUNTING Options

Hook & Chains (STANDARD)

STANDARD
V-hook w/ Chains
INCLUDED

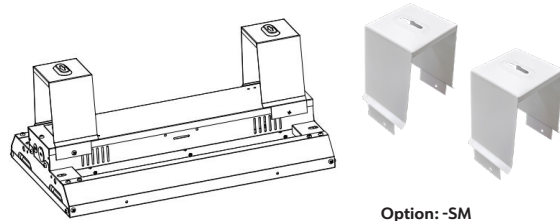### Aircraft Cable (option: -ACS/-ACL)

Option: -ACS / -ACL
SKU: AC-LHB-ACS / AC-LHB-ACL

Pendant Mount (option: -PM)
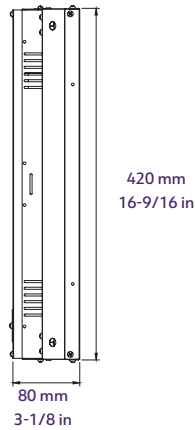

Option: -PM
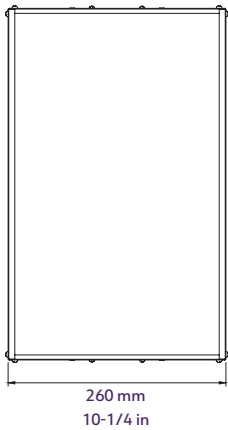SKU: AC-LHB2-PEM

Surface Mount (option: -SM)

Option: -SM
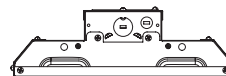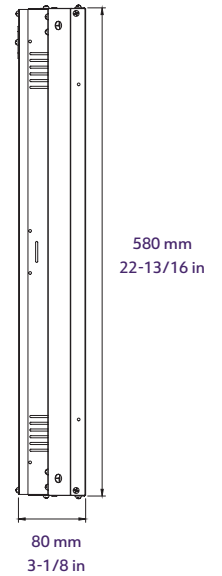SKU: AC-LHB2-SFM

DIMENSIONS

FLHB/2-15LM, FLHB/2-17LM, FLHB/2-20LM, FLHB/2-20/17/15LM

weight 7 lbs

420 mm
16-9/16 in

260 mm
10-1/4 in

80 mm
3-1/8 in

FLHB/2-23LM, FLHB/2-28LM, FLHB/2-30LM, FLHB/2-30/28/23LM

weight 8 lbs

580 mm
22-13/16 in

260 mm
10-1/4 in

80 mm
3-1/8 in

PacLights
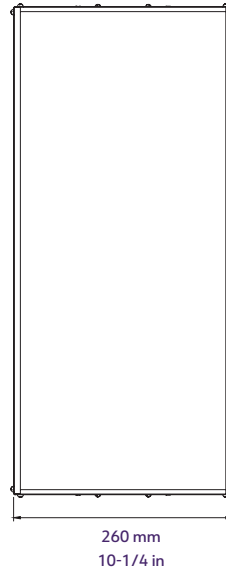
DIMENSIONS continued

FLHB/2-34LM, FLHB/2-40LM, FLHB/2-40/34LM

weight 12 lbs

790 mm
31-1/8 in

260 mm
10-1/4 in

80 mm
3-1/8 in
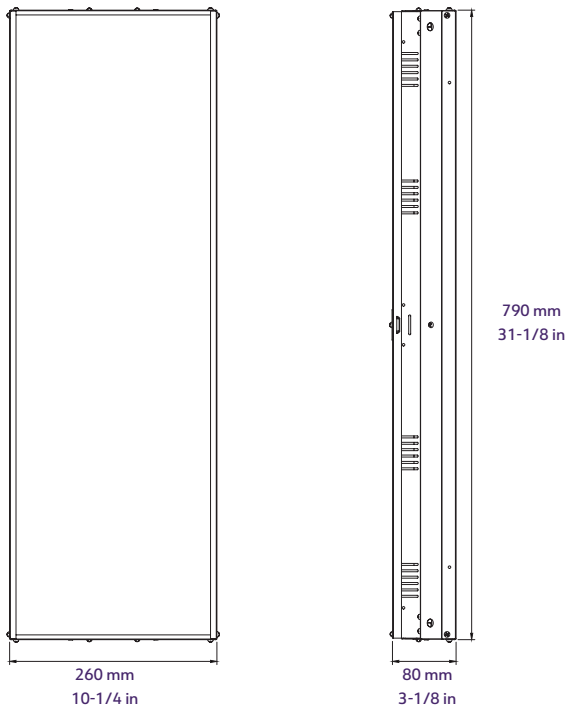
FLHB/2-50LM, FLHB/2-60LM, FLHB/2-60/50LM

weight 16 lbs

1120 mm
44-1/16 in

260 mm
10-1/4 in

80 mm
3-1/8 in
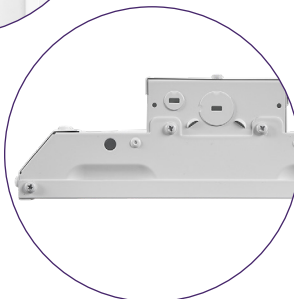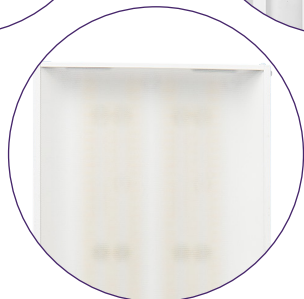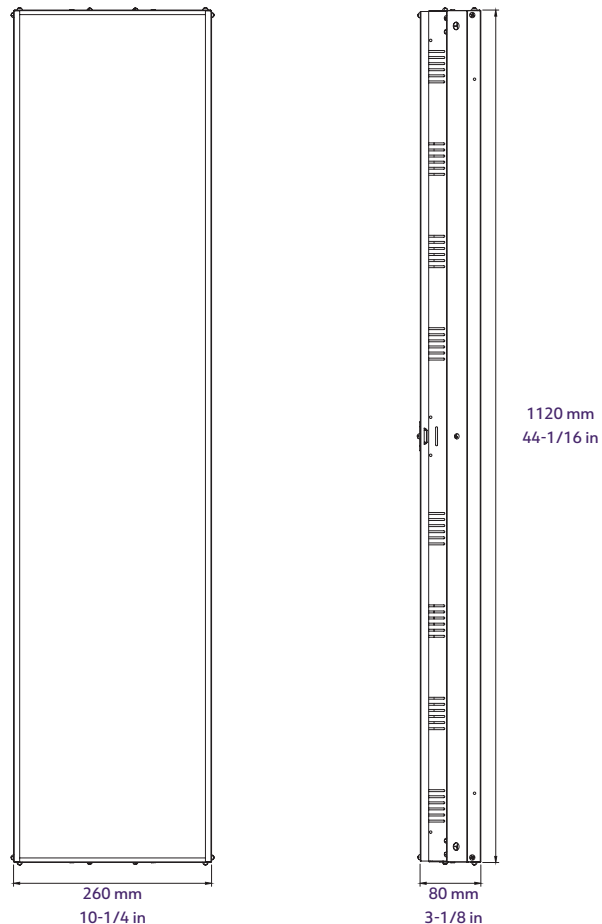
FINISHES

all models	white

NETWORKED CONTROLS
MADE EASY

Keilton® **DLC LISTED**

A Cost-Effective Decentralized Architecture

Direct Mobile Device Provisioning

Best-In-Class Scale, Performance & Reliability

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.

INSTALL — **COMMISSION** — **CONTROL**

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

LEARN MORE, VISIT
www.paclights.com/NLC

Bluetooth®   Security Capabilities Verified **GOLD** UL   **SUPPORTS T24 COMPLIANCE**

NETWORKED CONTROLS for
FLHB series

NETWORKED NODES WITH SENSOR

SKU	DESCRIPTION	FUNCTION	CONTROL ORDER CODE
KEILTON-EFS104	KEILTON EFS104 LINE VOLTAGE BLUETOOTH 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**