



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

Controls Ready  
LED Linear Highbay





controls ready  
LED Linear Highbay



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

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

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

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



#### KEY FEATURES

100,000-Hour LED lifespan

0-10V dimming standard on all models

Optional cable, surface, pendant mount kits available

Optional motion, daylight harvesting, NLC controls available

Battery backup option provided

## TECHNICAL SPECIFICATIONS

### COMPLIANCE

#### UL Listed

Suitable for damp locations

#### 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

### ELECTRICAL

#### Drivers

0-10V Dimmable

Input Voltage: 120-277V, 50-60 Hz (UV models); or 347-480V, 50-60 Hz (HV models),

Power Factor : > 0.9

### CONSTRUCTION

#### IP Rating

Suitable for Damp Location

#### Ambient Temperature

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

#### Cold Weather Starting

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

#### Housing

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

#### Mounting Methods

- Chain & V-hook Kit (included)
- Cable Mount (optional)
- Surface Mount (optional)
- Pendant Hanger (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

### OTHER

#### 7-Year Limited Warranty\*\*

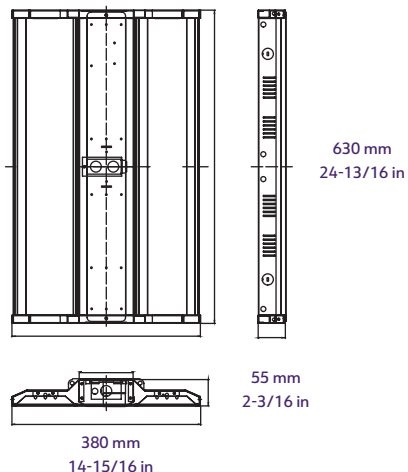
The PacLights 7-year, limited warranty covers light output, driver performance and paint finish.

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

## TECHNICAL SPECIFICATIONS Continued

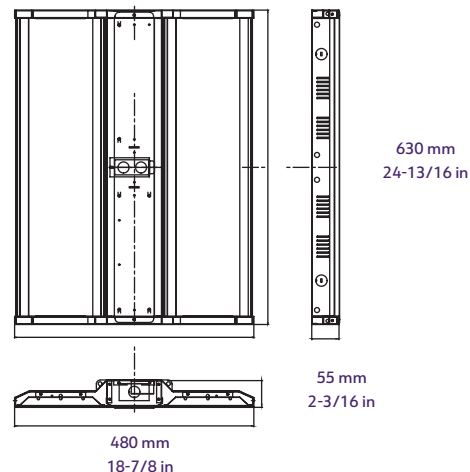
### FLHC 2D 065/085/105/130/155/170

Weight 10.4 lbs



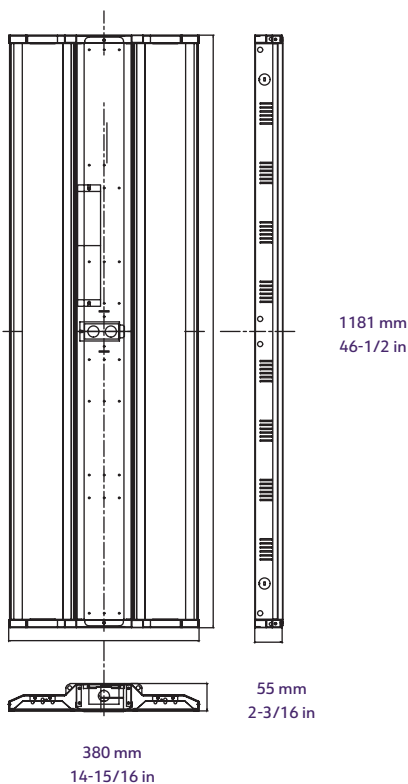
### FLHC 2D 210

Weight 11.3 lbs



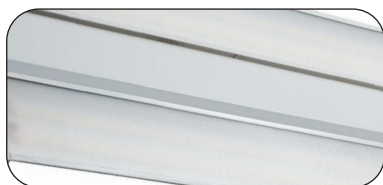
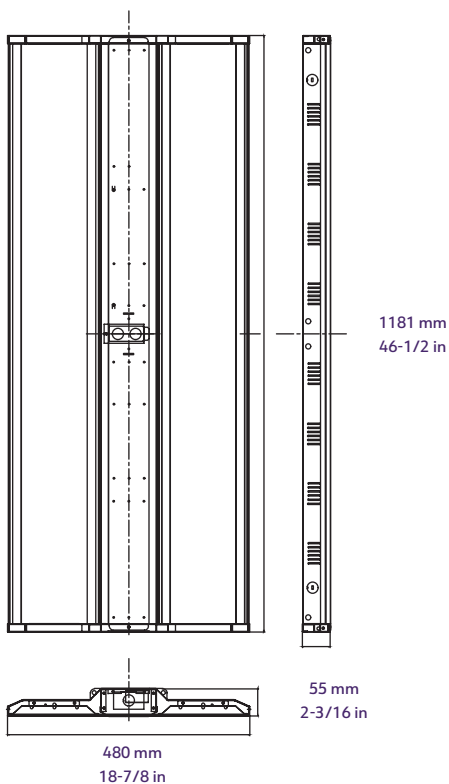
### FLHC 4D 255

Weight 20 lbs



### FLHC 4D 300/400

Weight 22 lbs



#### FINISHES

2D (2 ft)	White
4D (4 ft)	White

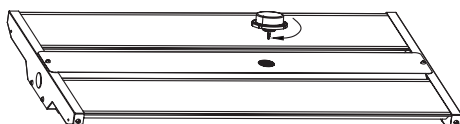
## CONTROLS Optional

## BI-LEVEL OCCUPANCY CONTROL (-MCW)

Microwave occupancy control detect motions even through plastic, glass and thin non-metal materials. It can be mounted as high as 40 ft high and contains a signature 3-step dimming function, which is perfect for areas that require a light change notice totally switching off the light. Control parameters are adjustable by an optional wireless commissioning device.

## OCCUPANCY &amp; DAYLIGHT HARVESTING CONTROL (-DLH)

In addition to all the functions provided by a microwave bi-level occupancy control, daylight harvesting control also reduces electric light in building interiors when daylight is available.



All FLHC models comes with AUX receptacle for easy twist-on installation of controls on site.



Wireless commissioning device can be purchase separately to customize settings of MCW/DLH controls.

## NETWORKED LIGHTING CONTROLS (-WBP/-WBM/-WBN)

Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLC) 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
- **(-WBM)** Wireless bluetooth networked control with microwave occupancy and photocell sensor
- **(-WBN)** Wireless bluetooth networked control (node only)

## PERFORMANCE

## FLHC™ 2D (2 Ft)

65W	4000K Neutral	5000K Daylight
LUMENS	8,450	8,515
LM/W	130	131

85W	4000K Neutral	5000K Daylight
LUMENS	11,475	11,560
LM/W	135	136

105W	4000K Neutral	5000K Daylight
LUMENS	14,175	14,280
LM/W	135	136

130W	4000K Neutral	5000K Daylight
LUMENS	17,550	17,680
LM/W	135	136

155W	4000K Neutral	5000K Daylight
LUMENS	20,925	21,080
LM/W	135	136

170W	4000K Neutral	5000K Daylight
LUMENS	22,950	23,120
LM/W	135	136

210W	4000K Neutral	5000K Daylight
LUMENS	28,350	28,560
LM/W	135	136

## FLHC™ 4D (4 Ft)

255W	4000K Neutral	5000K Daylight
LUMENS	34,425	34,680
LM/W	135	136

300W	4000K Neutral	5000K Daylight
LUMENS	40,500	40,800
LM/W	135	136

400W	4000K Neutral	5000K Daylight
LUMENS	54,000	54,400
LM/W	135	136

## ORDERING INFORMATION

## FLHC™

Family	Model		Color Temp		Input Voltage		Options	
FLHC								
	<b>2D065</b>	2 ft, 65W	<b>4D255</b>	4 ft, 255W	<b>4000</b>	4000K	<b>UV</b>	120-277V
	<b>2D085</b>	2 ft, 85W	<b>4D300</b>	4 ft, 300W	<b>5000</b>	5000K	<b>HV</b>	347-480V
	<b>2D105</b>	2 ft, 105W	<b>4D400</b>	4 ft, 400W			<b>WBP</b>	Wireless bluetooth networked control with PIR occupancy and daylight harvesting sensor
	<b>2D130</b>	2 ft, 130W					<b>WBM</b>	Wireless bluetooth networked control with microwave occupancy and photocell sensor
	<b>2D155</b>	2 ft, 155W					<b>WBN</b>	Wireless bluetooth networked control
	<b>2D170</b>	2 ft, 170W					<b>MCW</b>	Bi-level occupancy control
	<b>2D210</b>	2 ft, 210W					<b>DLH</b>	Bi-level & daylight harvesting control
							<b>PM</b>	Pendant mount
							<b>SM</b>	Surface mount
							<b>CB</b>	Aircraft cable mount
							<b>WG</b>	Wireguard
							<b>EM</b>	Emergency battery backup



# 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®**



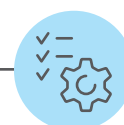
**A Cost-Effective Decentralized Architecture**

**Direct Mobile Device Provisioning**

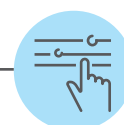
**Best-In-Class Scale, Performance & Reliability**



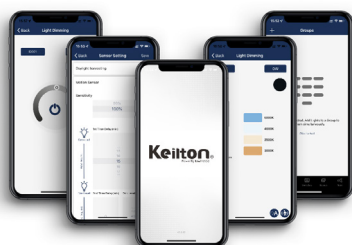
INSTALL



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 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 CONTROLS for FLHC series



## NETWORKED NODE ONLY

SKU	DESCRIPTION	FUNCTION	CONTROL ORDER CODE
KEILTON-WPPA102-AUX	 KEILTON WPPA102-AUX DC AUX BLUETOOTH MESH NODE	Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc.	<b>-WBN</b>

## NETWORKED NODE WITH SENSOR



SKU	DESCRIPTION	FUNCTION	CONTROL ORDER CODE
KEILTON-EFS106-AUX	 KEILTON EFS106-AUX DC AUX 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.	<b>-WBP</b>
KEILTON-EFS116-AUX	 KEILTON EFS116-AUX DC AUX BLUETOOTH MESH NODE W/ MICROWAVE PHOTOCCELL SENSOR	Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc. And, Microwave occupancy & photo sensing	<b>-WBM</b>

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## COMMISSION & CONTROL SMART DEVICE APP



## NETWORKED WALL SWITCH

SKU		DESCRIPTION	FUNCTION	APPLICATION
KEILTON-WP1025		KEILTON WP1025 BATTERY 5 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER	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.	Field installed, ideal for flexible or additional wall switch placement, indoor
KEILTON-WP1017S		KEILTON WP1017S AC 7 BUTTON BLUETOOTH DIMMER SWITCH W/ SCENE CONTROLLER	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.	Field installed, ideal for retrofitting existing wall switch, neutral wire (AC) is required, indoor

## OTHER

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

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