The
FLHQ™
Series

Linear Highbay Light

FLHQ™ generation 2

PacLights

5 YEAR WARRANTY

Linear Highbay Light

UL CERTIFIED | DLC LISTED PREMIUM | OUTPUT & CCT FIELD ADJUSTABLE | EMERGENCY BACKUP OPTION | MOTION CONTROL OPTION | NLC NETWORKED CONTROL OPTION

KEY FEATURES

| Beam Angle Selectable on all models |
| Color & Power Selectable on all models |
| Motion, Daylight and Network controls options |
| Emergency Battery Backup options |
| Multiple Mounting Options, optional Wire Guard |

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed
UL 1598 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.designlights.org/qpl

LED CHARACTERISTICS

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

Correlated Color Temperature
3500K, 4000K, 5000K selectable with a dip switch

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

Color Rendering Index
>82

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 up to 50° C (122° F) ambient temperature

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 mount (40" chain included). Accessories available for aircraft cable suspended, 3/4" NPT conduit pendant, or suface mount.

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

Lens
Polycarbonate optics

ELECTRICAL

Drivers
Input Voltage: 120-347V Universal Voltage, 50-60 Hz, optional 480v.
Power Factor : > 0.95, THD< 20%
0-10V continuous dimming, can be dim to off

Control Receptacle
12v DC receptacle compatible with selected motion, daylight and network controls.

Wattage / Input Voltage/ Input Current
Wattage/power selectable with a dip switch

MODEL	WATT. SELECTABLE	120v	208v	240v	277v	347v	480v
FLHQ/2-160/130/105	160w-130w-105w	1.48A	0.85A	0.74A	0.64A	0.51A	0.37A
FLHQ/2-240/210/180	240w-210w-180w	2.22A	1.28A	1.11A	0.96A	0.77A	0.56A
FLHQ/2-320/295/255	320w-295w-255w	2.96A	1.71A	1.48A	1.28A	1.02A	0.74A

FLHQ™ generation 2

PacLights

ORDERING INFORMATION

FLHQ™ generation 2

FAMILY	MODEL	INPUT VOLTAGE	CCT	BEAM ANGLE	CONTROL	EMERGENCY BACKUP	MOUNTS	OTHER
FLHQ/2	—	—	—	—	—	—	—	—

Create an ordering number by populating it with the CODES listed in the tables below, following the format shown above.

EXAMPLE: FLHQ/2 - 240/210/180 - UV - 8CT - DX - MCP
EXAMPLE: FLHQ/2 - 320/295/255 - UV - 8CT - D4 - EM6000
EXAMPLE: FLHQ/2 - 295 - HV - 40 - D7 - MCD - EM4500 - ACS - WG

The PART SKUs, if shown in the tables below, can be ordered separately from the FLHQ.

MODEL

* MUST SELECT ONE

CODE	WATTAGE SELECTABLE		CODE	WATTAGE		CODE	WATTAGE		CODE	WATTAGE
160/130/105	160w/130w/105w		105	105w		180	180w		255	255w
240/210/180	240w/210w/180w		130	130w		210	210w		295	295w
320/295/255	320w/295w/255w		160	160w		240	240w		320	320w

INPUT VOLTAGE

* MUST SELECT ONE

CODE	INPUT VOLTAGE
UV	120/208/240/277/347v
HV	480v

CCT

* MUST SELECT ONE

CODE	CRI	COLOR SELECTABLE
8CT	> 82	3500K/4000K/5000K

BEAM ANGLE

* MUST SELECT ONE

CODE	BEAM ANGLE
DX	Selectable - Standard, Aisle, Narrow Aisle
D9	Standard, 90° x 90°
D7	Aisle, 70° x 100°
D4	Narrow Aisle, 45° x 100°

CONTROL

* LEAVE BLANK, or SELECT ONE

CODE	TYPE	PART SKU	SENSOR	MOUNT	INSTALL
MCP	Standalone	SE-BC-ANT64T	PIR & Daylight Threshold	Plug&Play	FIELD
MCW		SE-BC-ANT54T	Microwave & Daylight Threshold	Plug&Play	FIELD
MCD		SE-BC-ANT54TVAL	Microwave & Daylight Harvesting	Plug&Play	FIELD
WBN	Bluetooth Networked	KEILTON-WPPA102-AUX	N/A	Plug&Play	FIELD
WBP		KEILTON-EFS106-AUX	PIR & Daylight	Plug&Play	FIELD

EMERGENCY BATTERY BACKUP

* LEAVE BLANK, or SELECT ONE

CODE	INPUT VOLTAGE	PART SKU	WATT	EMERGENCY LUMEN	COMPATIBLE	EMERGENCY RUNTIME	INSTALL
EM4500	120-277v	EMC-30	30w	4,500 Lumen	105 to 240w models		
	480v	EMC-30-H					
EM6000	120-277v	EMC-40	40w	6,000 Lumen		> 90 mins	FACTORY
	480v	EMC-40-H			All models		
EM9000	120-277v	EMC-60	60w	9,000 Lumen			
	480v	EMC-60-H					

PL_SPEC_FLHQ2_v1

FLHQ™ generation 2

MOUNTS

* LEAVE BLANK (v-hook and 40" chains included), or SELECT ONE

CODE	PART SKU	COMPATIBLE	TYPE	INSTALL
ACS	AC-LHB-ACS	All models	Aircraft Cable Kit, adjustable up to 120"	
ACL	AC-LHB-ACL	All models	Aircraft Cable Kit, adjustable up to 196"	
SM	AC-LHQ-2SMS	160/130/105w models	Surface Mount Kit	FIELD
	AC-LHQ-2SML	180 to 320w models		
PM	AC-LHQ-2PMS	160/130/105w models	Pendant/Conduit Mount Kit, 3/4" NPT	
	AC-LHQ-2PML	180 to 320w models		

OTHER

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

Wire Guard

CODE	PART SKU	COMPATIBLE	INSTALL
WG	AC-LHQ-2WGS	160/130/105w models	FIELD
	AC-LHQ-2WGL	180 to 320w models	

Cord

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

CODE	PART 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	PART 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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Page 4 of 11

PL_SPEC_FLHQ2_v1

PERFORMANCE

Lumen Package	Wattage	CCT Setting	Lumen Output
15,000	105w	3500K	14,700
		4000K	15,225
		5000K	15,015
18,000	130w	3500K	18,200
		4000K	18,850
		5000K	18,590
23,000	160w	3500K	22,400
		4000K	23,200
		5000K	22,880
26,000	180w	3500K	25,200
		4000K	26,100
		5000K	25,740
30,000	210w	3500K	29,400
		4000K	30,450
		5000K	30,030
34,000	240w	3500K	33,600
		4000K	34,800
		5000K	34,320
36,000	255w	3500K	35,700
		4000K	36,975
		5000K	36,465
42,000	295w	3500K	41,300
		4000K	42,775
		5000K	42,185
46,000	320w	3500K	44,800
		4000K	46,400
		5000K	45,760

Delivered Lumens, 82 CRI

STANDARD FEATURES

SELECTABLE COLOR (CCT) AND POWER

OUTPUT & CCT FIELD ADJUSTABLE

Select the desired output power or light color temperature by sliding the respective Power or CCT Selection Switch left or right to the desired value. CCT can be adjusted to 3500/4000/5000K, and for each model Wattage/Lumen can be adjusted to the 3 different levels shown on the performance chart.

STANDARD FEATURES continued

SELECTABLE BEAM ANGLE

The fixture features a dip switch that enables to select the desired beam angles for different warehouse applications. (**ORDERING CODE:** DX)

BEAM
90° x 90°

ORDERING CODE
D9

PURPOSE
for general warehouse spaces
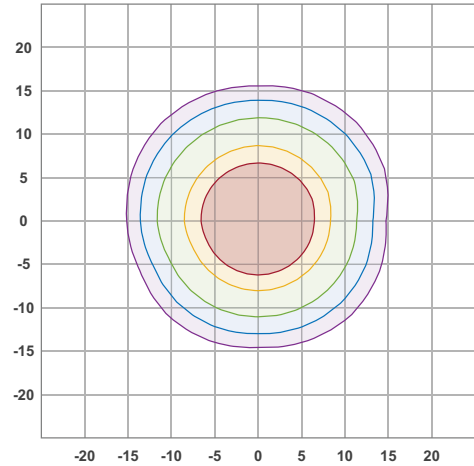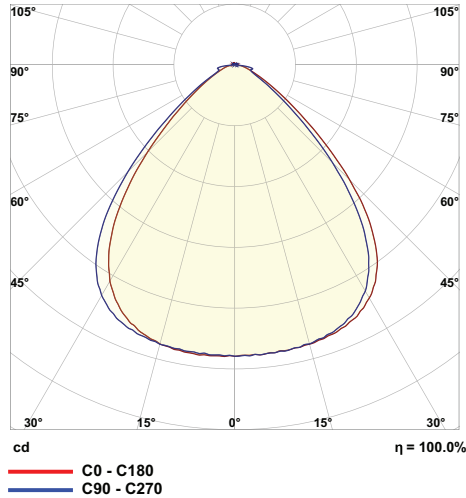
BEAM
70° x 100°

ORDERING CODE
D7

PURPOSE
for warehouse spaces with aisle racking
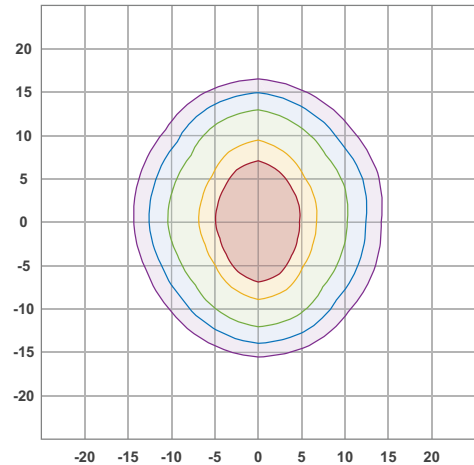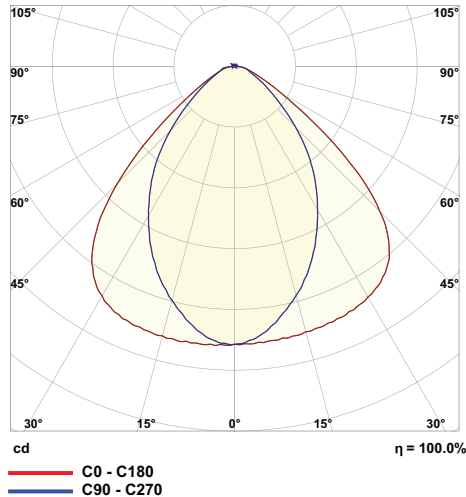
BEAM
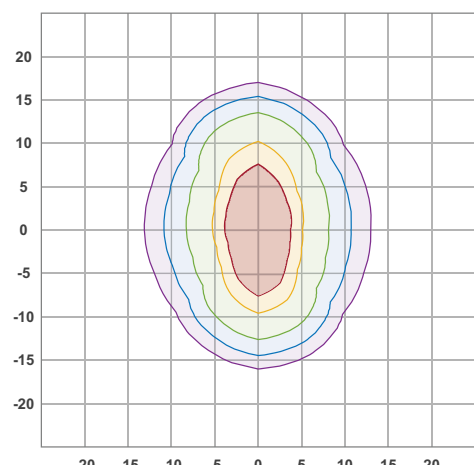45° x 100°

ORDERING CODE
D4

PURPOSE
for warehouse spaces with narrow aisle racking

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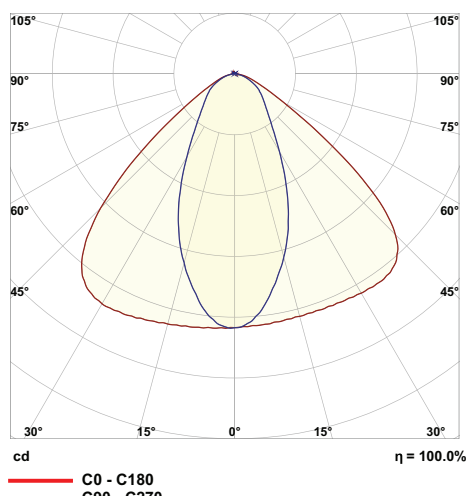
CONTROL Options

STANDALONE SENSOR CONTROLS (OPTION: -MCP/-MCW/-MCD)

PASSIVE INFRARED BI-LEVEL MOTION & DAYLIGHT (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 using an optional wireless commissioning device.

MICROWAVE BI-LEVEL MOTION & DAYLIGHT (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 adjusted using an optional wireless commissioning device.

MOTION AND DAYLIGHT HARVESTING (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-ANT64T

Option: -MCW
SKU: SE-BC-ANT54T

Option: -MCD
SKU: SE-BC-ANT54TVAL

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 CONTROLS (OPTION: -WBP/-WBN)

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
- **(-WBN)** Wireless bluetooth networked control (node only)

Option: -WBN
SKU: KEILTON-WPPA102-AUX

Option: -WBP
SKU: KEILTON-EFS106-AUX

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

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Page 7 of 11

EMERGENCY BACKUP Option

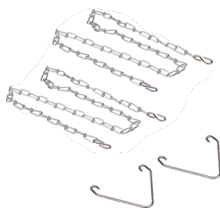### EMERGENCY BATTERY BACKUP (OPTION: -EMXXXX)

EMERGENCY BACKUP OPTION

When there is a power outage, the optional emergency backup driver and battery will power the FLHQ to an reduced brightness for at least 90 mins.

* FACTORY INSTALLED

MOUNTS Option
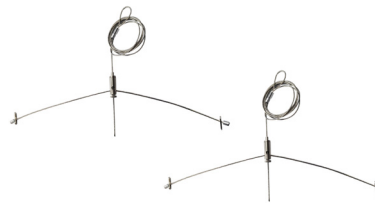
CHAIN MOUNT (STANDARD - INCLUDED)

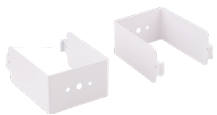One pair of chains with v-hooks are included, each length adjustable, up to 40"

* FIELD INSTALLED

AIRCRAFT CABLE KIT (OPTION: -AC)

Aircraft cable for suspended mount, length adjustable up to 120" or 196"

* FIELD INSTALLED

SURFACE MOUNT (OPTION: -SM)

The surface mount kit allows the FLHQ to be mounted to a flat surface or the building's beams.

* FIELD INSTALLED

PENDANT MOUNT (OPTION: -PM)

The conduit mount kit allows the FLHQ to be pendant mounted to a 3/4" conduit and enables electrical wires to run through the conduit.

* FIELD INSTALLED

OTHER Option

WIRE GUARD (OPTION: -WG)

Protect FLHQ with the impact & vandal resistant wire guard. Use this lighting accessory to reduce damage to the lens from flying debris. Easy to attach on site.
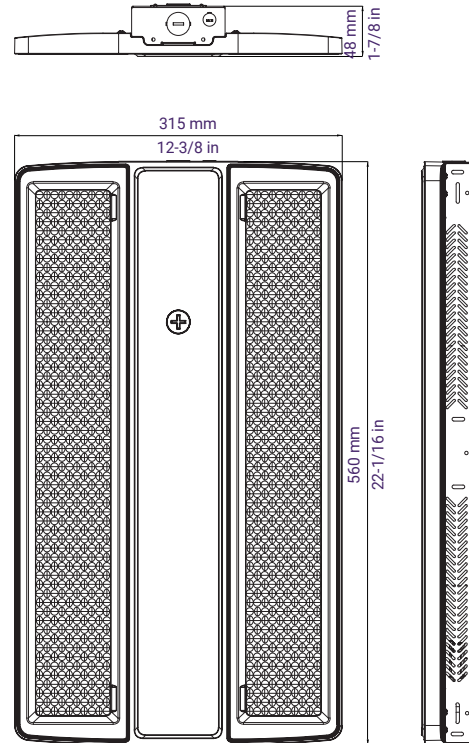
* FIELD INSTALLED
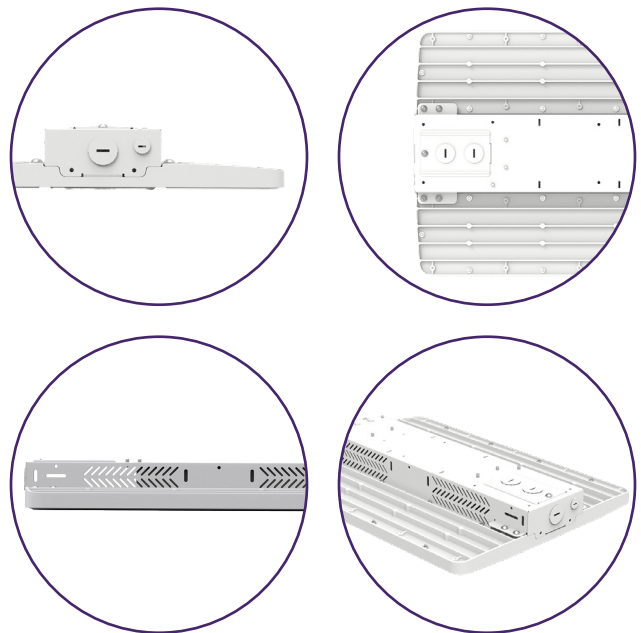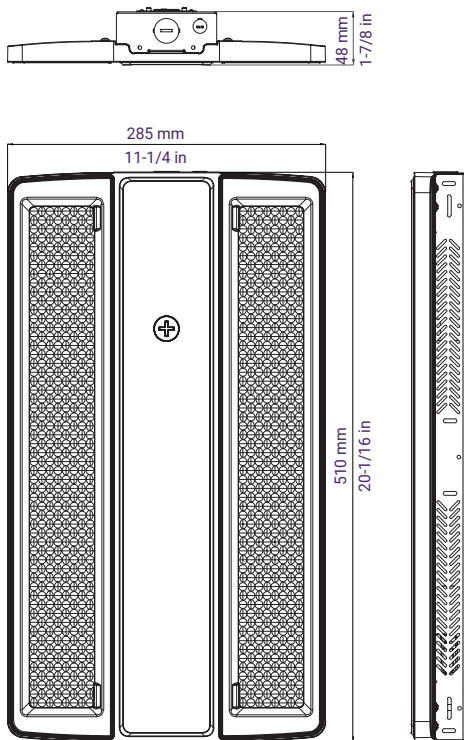
DIMENSIONS

FLHQ/2 - 160/130/105

Weight 6 lbs

48 mm
1-7/8 in

285 mm
11-1/4 in

381 mm
15 in

FLHQ/2 - 240/210/180

Weight 8 lbs

48 mm
1-7/8 in

285 mm
11-1/4 in

510 mm
20-1/16 in

FLHQ/2 - 320/295/255

Weight 9 lbs

48 mm
1-7/8 in

315 mm
12-3/8 in

560 mm
22-1/16 in

FINISH	
all models	White

NETWORKED CONTROLS
MADE EASY

Keilton+autani 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 +autani — DLC LISTED

A Cost-Effective Decentralized Architecture
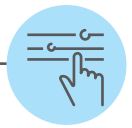
Direct Mobile Device Provisioning

Best-In-Class Scale, Performance & Reliability
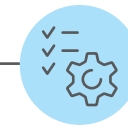
INSTALL — **COMMISSION** — **CONTROL**

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+autani 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
FLHQ series

PacLights

NETWORKED NODES 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.	**-WBN**

NETWORKED NODES 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.	**-WBP**