

Sports and Flood Lights















PROJECT:

DATE:

TYPE:

PREPARED BY:



KEY FEATURES

1500w Metal Halide equivalent; RGBW option

Mounting Options for sports and flood applications

10kV Surge Protection standard on all models

Compatible with Zhaga Z10 lighting controls

Networked Lighting Control option

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

UL 1598, Suitable for Wet 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

OPTICAL

LEDS

Long-life, high-efficacy, surface-mount LEDs

Lifespa

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

Lumen Maintenance

L90 ≥ 36,000 hours

Color Rendering Index

>70

Beam

 35° beam standard, optional 20° , 55° or 90° beam

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

IP Rating

Ingress Protection rating of IP65 for dust and water

Ambient Temperature

Suitable for up to 50° C (122° F) ambient, minimum starting -40 F°/-40° C

Housing

Die-cast aluminum housing; stainless steel external hardware; silicone gasket.

EPA

2.0 ft².

Mounting Methods

Yoke/Trunnion (standard); 2-3/8" Slipfitter (optional), Knuckle (optional).

Green Technology

Mercury and UV free, and RoHS compliant.

Lens

Polycarbonate.

ELECTRICAL

Driver(s)

Designed to last \geq 50,000 hours when at allowable operating temperature Input Voltage: 120-277v AC (-UV models) or 220-480v AC (-HV models), 50-60 Hz 0-10V dimming; Power Factor > 0.95; THD < 20% DMX512 for RGBW models.

Surge Protector

Driver - L/N-PE: 10kV, L-N: 6kV; Secondary - 10kV.

Control Receptacle

ZHAGA Z10 twist-lock receptacle. Compatible with 0-10v dimming controls. (non-RGBW models)

Input Current

Models	Wattage	120v	208v	240v	277v	480v
FFHL/2-600	600w	5.5A	3.2A	2.8A	2.4A	1.4A
FFHL/2-700	700w	6.5A	3.7A	3.2A	2.8A	1.6A
FFHL/2-800	800w	7.4A	4.3A	3.7A	3.2A	1.8A



ORDERING INFORMATION

FFHL[™] generation 2

FAMILY	MODEL	INPUT VOLTAGE	сст	BEAM	MOUNTS	OTHER
FFHL/2	MODEL -	VOLTAGE -	сст –	BEAM	- MOUNTS	- OTHER

EXAMPLE

FFHL/2-800-UV-50-D3-TM FFHL/2-600-HV-40-D9-KM-VS FFHL/2-800-HV-RGBW-D3-SF

MODEL

* MUST SELECT ONE

INPUT VOLTAGE

* MUST SELECT ONE CCT

* MUST SELECT ONE

CODE	LUMEN PACKAGE	WATTAGE
600	92,000	600w
700	105,000	700w
800	114 000	800w

CODE	INPUT VOLTAGE
UV	120-277v
HV	220-480v

CODE	CRI	ССТ
50	> 70	5000K
40		4000K
RGBW	-	RGBW ¹

 $^{^{1}}$ RGBW is only available on FFHL/2-800-HV models

BEAM (see page 7)

* MUST SELECT ONE

CODE	PARTS SKU	BEAM	INSTALL
D2	AC-FHL2-LEN20	20°	FACTORY
D3	- STANDARD/INCLUDED -	35°	FACTORY
D6	AC-FHL2-LEN55	55°	FACTORY
D9	AC-FHL2-LEN90	90°	FACTORY

MOUNTS (see page 5 & 8)

* MUST SELECT ONE

CODE	PARTS SKU	TYPE	INSTALL
TM	- STANDARD/INCLUDED -	Trunnion/Yoke Bracket	FACTORY
KM	AC-FHL2-KM	Knuckle Bracket	FIFLD
SF	AC-FHL2-SF	Slipfitter Bracket for standard 2-3/8" tenon	FIELD

OTHER

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

Control (see page 6)

CODE	PARTS SKU	TYPE	FUNCTION	SENSOR	COMPATIBLE	INSTALL
PS	SE-HS-HD06VCRH7A	Standalone	ZHAGA Z10 twist lock plug & play Dimming & Daylight Harvesting Photocell	Daylight Sensor	All except RGBW models	FIELD
WBN	KEILTON-WPPA102-Z10-W	Bluetooth Wireless Networked	ZHAGA Z10 twist lock plug & play Keilton+autani ® Wireless Features	N/A	All except RGBW models	FIELD
SYW	SE-SY-DIM10-087-06-IP	IEEE 802.15.4 Wireless Networked	Synapse® Wireless ¹ Features. Optional: Dynamic Behaviors ² for Sports Lighting (special order, contact sales)	N/A	All except RGBW models	FACTORY

¹ Central Base Station (CBS) wireless site controller required, purchase separately, see Synapse® documents
² Dynamic Behaviors licenses required, purchase separately; not all features available; contact sales

Glare Sheild (see page 7)

CODE	PARTS SKU	TYPE	INSTALL
VS	AC-FHL2-VS	Visor / Glare Shield	FIELD

PERFORMANCE

	Models	Lumen Package	Wattage	CCT	Lumen Output	LPW
ν̂				4000K	92,441	154
ner	FFHL/2-600 92,000 600w	600w	5000K	92,895	155	
- 골론				4000K 100,800	144	
red 70 (FFHL/2-700	105,000) 700w	5000K	101,500	145
Delivered Lumens, 70 CRI 4 4 4		444000		4000K	114,012	142
	FFHL/2-800 114,000 8	800w	5000K	114,625	143	





DLC CHART

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DLC Primary use designation: Architectural Flood and Spot Luminaires



MODEL#	CLASS	DLC PRODUCT ID
FFHL/2-600-HV-40-Dxx-cdeSP	Premium	S-DQVD7K
FFHL/2-600-HV-50-Dxx-cdeSP	Premium	S-S1LM8Q
FFHL/2-600-UV-40-Dxx-cdeSP	Premium	S-X8HH1X
FFHL/2-600-UV-50-Dxx-cdeSP	Premium	S-KFYHFY
FFHL/2-800-HV-40-Dx-cdeSP	Premium	S-ZTWVP6
FFHL/2-800-HV-50-Dx-cdeSP	Premium	S-3TRDP2
FFHL/2-800-UV-40-Dx-cdeSP	Premium	S-L8H1D7
FFHL/2-800-UV-50-Dx-cdeSP	Premium	S-JFY76X



STANDARD FEATURES

Secondary Surge Protector



Secondary 10kV surge protector can act as the second line of defense, in additional to the LED driver's intergrated lightning arrester.

ZHAGA Z10 Controls Compatible

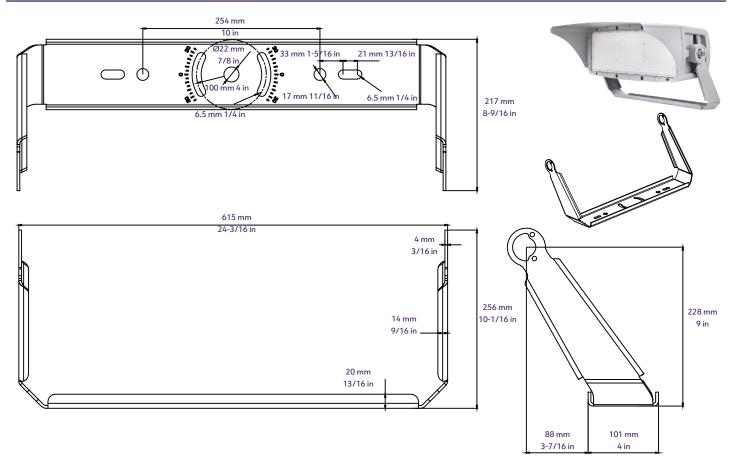


Pre-installed with Zhaga Z10 twist-lock receptacle. Compatible with Zhaga 0-10v twist-lock dimming controls.

not available on RGBW models

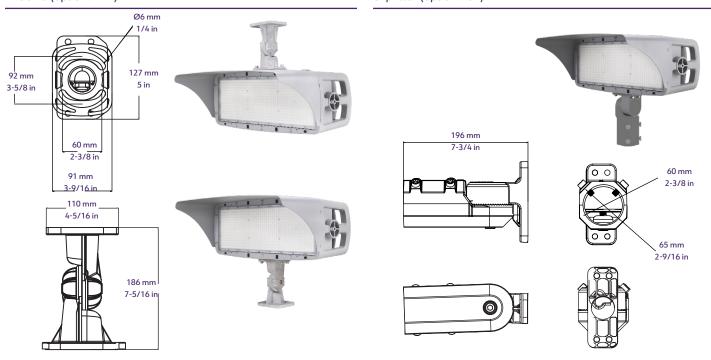
MOUNTING Options

Yoke/Trunnion (standard/included: -TM)



Knuckle (option: -KM)

Slipfitter (option: -SF)



CONTROL Options

Standalone Zhaga Z10 Plug & Play Photocell Sensor (option: -PS)

The SE-HS-HD06VCRH7A sensor features two operational modes: On/Off and Daylight Harvesting.

In On/Off mode, the light automatically turns on when the ambient brightness falls below a preset level and turns off when it exceeds this level by tenfold.

In Daylight Harvesting mode, the LED dims as ambient light increases if the brightness is below the preset lux level. Conversely, if the ambient brightness surpasses this threshold, the light turns off.

Users can set the ambient level using a SE-HS-HD05R remote device, which can either specify a particular lux level or learn the current ambient brightness to establish it as the target lux level.



SE-HS-HD06VCRH7A Daylight Sensor Specification

IP Rating	IP65
On/Off mode	2 Lux / 10 Lux
Daylight Harvesting mode	30/50/80/120/200/250/300/350/400 Lux
Commissioning Device	SE-HS-HD05R
Dimming	0-10v dimming
Connection	Zhaga Z10
Input Voltage	12v DC

Networked Lighting Control - Bluetooth Mesh - Zhaga Z10 Plug & Play (option: -WBN)

Keilton+autani 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.







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

Networked Lighting Control - IEEE 802.15.4 Mesh - Factory Installed (option: -SYW)

Synapse SimplySnap Network Lighting Controls (NLC) offer Luminaire Level Lighting Control (LLLC) based on IEEE 802.15.4 Mesh Networking of Luminaires. Individual addressability enables luminaires to be communicated with each other within the network. Luminaires can be grouped and controlled by using a web app via the connected Central Base Station (CBS). Scheduling, scene and sensors can be added for automation among the lights within the zone/group.

The **SE-SY-DIM10-087-06-IP** is an intelligent SimplySnap wireless lighting controller designed for 0-10v dimming applications. Each device provides intelligent On/Off switching, dimming, external sensor input of lighting fixtures.

The **Central Base Station (CBS)** site controller serves as the heart of the SimplySnap solution. This network edge appliance provides quick browser-based access and local control of smaller systems with hundreds of devices. Each SimplySnap system includes a variety of Synapse-enabled devices that communicate with each other and the CBS to form a local mesh network. The CBS monitors, controls, and automates critical devices to save energy across different types of systems. For managing larger sites or multiple locations, optional SimplySnap cloud applications are available to consolidate multiple site controllers into a single user interface for integrated management across installations with thousands of devices.

DYNAMIC BEHAVIORS is optional separately purchased/licensed feature enables SimplySnap users to produce stunning lighting effects such as Paparazzi, Sparkle, Random etc.

 $\#\, Factory\, installed, may\, requires\, LED\,\, driver (s)\, upgrade,\, not\, all\, features\, available,\, contact\, sales.$



SE-SY-DIM10-087-06-IP

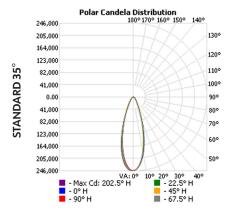


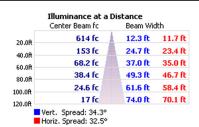
Central Base Station (CBS)



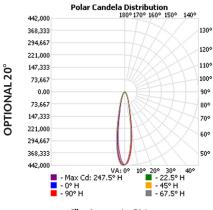


OPTIC Options

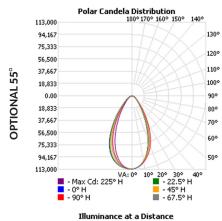




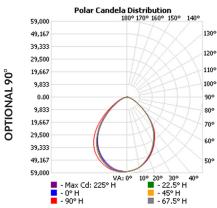












	Illuminance at a Distance Center Beam fc Beam Width		dth
20.0 R	145 fc 🛕	37.2 ft	39.4 ft
40.0R	36.2 fc	74.4 ft	78.8 ft
60.0R	16.1 fc	111.5 ft	118.3 ft
80.0R	9.05 fc	148.7 ft	157.7 ft
100.0 R	5.79 fc	185.9 ft	197.1 ft
120.0R	4.02 fc	223.1 ft	236.5 ft
	Vert. Spread: 85.8°		

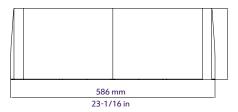
GLARE SHIELD Option

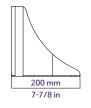
Visor

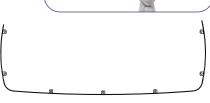
For residential, tourist and conservation areas, facilities must be able to install lighting systems that avoid unwanted illumination onto adjacent properties.

PacLights engineered optical systems include visor that control light and distribute it on the task at hand to limit light trespass. This allows facilities to install luminaires and poles where they are needed for maximum effectiveness.

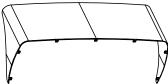
The visor of the FFHL can be installed on either side of the fixture, depending on specific requirements.









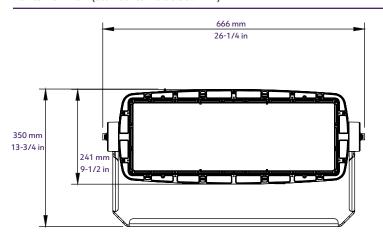


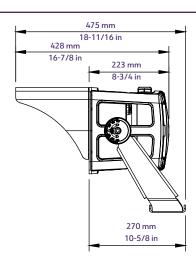
DIMENSIONS

Weight: 50 lbs EPA: 2.0

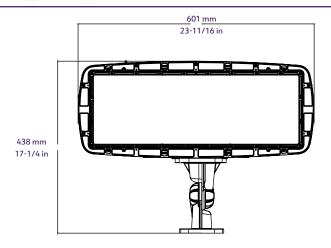
FINISHES
all models gray

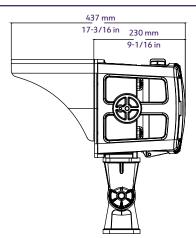
Yoke/Trunnion (standard/included: -TM)



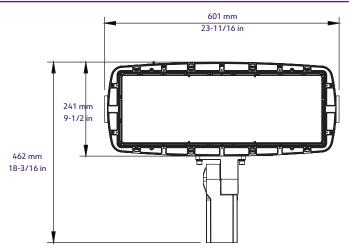


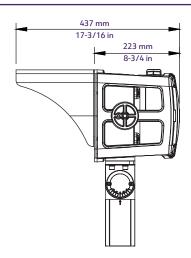
Knuckle (option: -KM)





Slipfitter (option: -SF)





Need help? (800) 988-6386 Email: CS@PacLights.com Website: www.PacLights.com
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NETWORKED CONTROLSMADE 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



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







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

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+autani is the qualified system name listed on the DLC Networked Lighting Controls QPL.

PacLights



NETWORKED CONTROLS for FFHL series

PacLights

NETWORKED NODES

SKU DESCRIPTION FUNCTION CONTROL ORDER CODE

KEILTON-WPPA102-Z10-W



KEILTON WPPA102-Z10-W DC AUX BLUETOOTH MESH NODE (OUTDOOR, LONG RANGE) Enable network controlled - on & off, dim, trim, zone, group, scene & schedule, etc.

-WBN

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