## LumenF@cus

Project:	
Location:	
Cat. #:	
Туре:	
Quantity:	
Quantity	



# FFL P G2 8 | LED Lensed Industrial

### Features:

- High performance LED technology
- 0-10V dimming drivers standard
- Field replaceable LED boards and drivers
- DALI drivers available
- Frosted diffuser optimized to balance efficiency and aesthetics
- Available in a wide variety of lumen outputs for maximum flexibility

• Buy American Act compliant (All base luminaires are BAA compliant. Addition of options may change eligibility. Contact factory for details.)

### **Applications:**

Suitable for most indoor industrial, commercial and institutional applications

- Office
- Retail
- Warehouse
- Classrooms

### **Predicted Lifetime:**

- L70: 129,000 hrs (calculated)
- L80: 81,000 hrs (calculated)
- L90: 39,000 hrs (reported)
- 85% lumen maintenance @ 60,000 hrs (based on LM80 and insitu laboratory testing)

### Construction:

- Precision brake formed from cold rolled steel
- Frosted acrylic diffuser
- Matte white finish

### Certifications:

• UL 1598 listed for US and Canada, suitable for damp locations



### Warranty:

- 5 year limited system warranty see <u>www.LumenFocus.com</u> for complete warranty terms and conditions
- 10 year warranty option available on specific models

(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)









## FORMF©CUS



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### LUMENF©CUS

### Ordering Guide:

example: FFL P G2 8 LW UV FA 940 OC20 ZOSM C6

								IA J40 QC20 203101
Series	Size	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options
FFL P G2	8			FA				
FFL P Gen 2	8	SL Super Low VL Very Low Low MD Medium HI High VH Very High SH Super High	UV 120-277 34 347V	FA Frosted Acrylic	930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K 950 90 CRI/5000K	Blank None (Surface or Pendant Mount) VC V-Chain Hangers QC 10' Quick Hang Cable Kit QC20 20' Quick Hang Cable Kit	Blank No Controls ZSOL Leviton Programmable PIR Occupancy/Daylight Harvesting Sensor (On/Off/Dim) <sup>(1)</sup> <b>DECOM</b> Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) <sup>(2)</sup> <b>ZSLFC2</b> Keystone SmartLoop Wireless Bluetooth Mesh Occupancy/ Daylight Harvesting Smart Sensor <sup>(1)</sup> <b>ZLDS</b> Leviton Intellect DALI Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities <sup>(3)</sup>	Blank No Options EXT10 10-Year Extended Warranty <sup>(4)</sup> C6 6' Single Circuit Cord C65W 6' Single Circuit Cord With Low Voltage Connections C10 10' Single Circuit Cord C105W 10' Single Circuit Cord With Low Voltage Connections P(NEMA) Plug (Specify NEMA Configuration)
Notes							ZL7S Leviton Intellect 0-10V Sensor with Dimming/Occupancy/	EM6 6.5W Emergency Pack <sup>(5)</sup>

<sup>(1)</sup> See page 4 for more details.

- <sup>(2)</sup> 120-277V only. See page 4 for more details.
- <sup>(3)</sup> See page 5 for more details.
- <sup>(4)</sup> Not available on all models. Certain conditions apply. Consult factory or sales representative for details.
- <sup>(5)</sup> 120-277V / 0°Ć-55°C ambient. To estimate lumen output in emergency mode, multiply EM wattage by the Lumens per Watt of the luminaire it is installed in.

ex. FFL P G2 8 MD UV FA 940 EM10  $\rightarrow$  147.0 LPW x 10W = 1,470 lm

### Controls Accessories (order separately)

#### For Leviton Programmable Sensor

ZLSOR-RA1 IR Programming Remote



For Keystone SmartLoop Controls

### KTSL-TK1-USB

DRKDN-U8W

KTSL-WS1-B-SG/G2 5-Button Bluetooth Wireless Wall Switch USB Time Keeper

#### DRKDN-U1W DRKDN-U2W

#### For Leviton Intellect Controls

- 1-Button Wireless Wall Controller 2-Button Wireless Wall Controller 4-Button Wireless Wall Controller DRKDN-U2W
  - 8-Button Wireless Wall Controller

#### For Enlighted Controls WS-2-00

Enlighted Remote Control Wall Switch (for Enlighted Connected & IoT)

## **Dimensions:**

FFLP 8 Length: 96″ 9.7″ Width: Height: 4.155"



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with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities(3)

EM10

10W Emergency Pack<sup>(5)</sup>

EM14

14W Emergency Pack<sup>(5)</sup>

LVL

0-10V Dimming Leads

for Easy Field Access

BAA

Buy American Act Compliant

ZLDC Leviton Intellect DALI Fixture Controller with Newtork Capabilities(3)

ZL7C Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities<sup>(3)</sup>

ZENLC Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting<sup>(3)</sup>

ZENLI Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting

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### Performance Chart:

Catalog #	Watts	Lumens (830)	LPW (830)	Lumens (835)	LPW (835)	Lumens (840)	LPW (840)	Lumens (850)	LPW (850)
FFL P G2 8 SL UV FA 9xx	28.2	4025.3	142.7	4042.3	143.3	4138.3	146.7	4138.3	146.7
FFL P G2 8 VL UV FA 9xx	41.1	5915.6	144.1	5940.6	144.7	6081.7	148.1	6081.7	148.1
FFL P G2 8 LW UV FA 9xx	55.0	7928.6	144.2	7962.1	144.8	8151.2	148.3	8151.2	148.3
FFL P G2 8 MD UV FA 9xx	69.2	9888.4	142.9	9930.1	143.6	10165.9	147.0	10165.9	147.0
FFL P G2 8 HI UV FA 9xx	85.1	11894.5	139.7	11944.6	140.3	12228.3	143.6	12228.3	143.6
FFL P G2 8 VH UV FA 9xx	113.7	15730.1	138.4	15796.4	139.0	16171.6	142.3	16171.6	142.3
FFL P G2 8 SH UV FA 9xx	148.9	19747.9	132.6	19831.1	133.2	20302.1	136.4	20302.1	136.4

## LUMENFÓCUS Re-boardABILITY

The FFL P G2 features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. Learn more about Re-boardABILITY here.



### Controls Summary:

Control Code	Туре	Capabilities	Communication		
ZSOL	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via IR remote (sold separately) or via dip switches on sensor		
ZOSMD	Motion (Microwave), Photosensor	On/Low/Off	Wired 1-10V		
ZSLFC2	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling, LLLC (Keystone TechSmartLoop)	Wireless Bluetooth Mesh, Programmable via Keystone SmartLoop App for iOS or Android		
ZLxS	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLLC (GreenMAX DRC)	Wireless Zigbee 2.4 GHz Mesh, Programmable via GreenMAX DRC app. for iOS or Android along with DRKDN-UxW Wall Controller (sold separately)		
ZLxC	Controller, No Sensors	High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLLC (GreenMAX DRC)	Wireless Zigbee 2.4 GHz Mesh, Programmable via GreenMAX DRC app. for iOS or Android along with DRKDN-UxW Wall Controller (sold separately)		
ZENLC	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitor- ing*, BMS Integration*, Upgradable to IoT (ZENLI), LLLC (Enlighted IoT)*	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software		
ZENLI	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitor- ing*, BMS Integration*, LLLC (Enlighted IoT)*, Space - Building Utilization*, Where - Real Time Location Services*	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software		

LLLC = Luminaire Level Lighting Control

\* Additional equipment required. Contact LumenFocus representative for details



### ZSOL option: Leviton Intellect Solo Sensor

The FFL P G2 can be equipped with an integrated Leviton Intellect Solo Sensor ("ZSOL" option). This is a 0-10V dimming Passive Infrared (PIR) occupancy and daylight harvesting sensor.

#### Features:

- Partial-on
- Partial-off
- 8' to 10' mounting height
- IP20 rated
- Detection angle: 120 degrees
- IR remote available for programming sensor from the floor (sold separately)
- Can be used to comply with IECC, ASHRAE 90.1 and 2019 Title 24, Part 6
- dimming, occupancy/vacancy sensing and daylight harvesting requirements.



### ZOSMD option: Leviton 0-10V High Frequency Microwave Sensor

The FFL P G2 can be equipped with an integrated Leviton 0-10V dimming high frequency microwave sensor ("ZOSMD" option). The ZOSMD detects motion through low density materials allowing it to be installed out of site, under the FFR P's frosted lens. The high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The integrated daylighting sensor detects natural light and turns lights ON or keeps lights OFF in response to available natural light or the daylight set point when motion is detected.

#### Features:

- Automatic switching or dimming based on motion
- Ambient light override
- Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass
- up to 40' mounting height
- Detection Zone: 52' diameter x 40' Height Max
- Standby Dimming Level: 10% / 20% / 30% / 50%
- IP20 rated
- 120-277V

### Keystone SmartLoop Wireless Control System

The SmartLoop wireless lighting control system by Keystone is a Bluetooth mesh lighting control system that allows you to set up and manage your lighting ecosystem quickly and easily. It's powerful enough to run a space with multiple lighting zones, but simple enough to program in minutes with your smartphone – perfect for warehouses, offices, schools, and auditoriums, whether new construction or retrofit.

- Wireless Bluetooth 2.4 GHz mesh network
- Supports up to 100 devices on a single region, with unlimited regions
- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning, Grouping, Scene Setting, Scheduling
- Commissioned via SmartLoop mobile app for iPhone and Android



- Low voltage individual fixture controller for SmartLoop system
- Integrated daylight and PIR motion sensors
- Up to 16' mounting height. 16' radius at 16' height.
- Works with 0-10V dim-to-off drivers with 12V aux. power

### SmartLoop Accessories

- Bluetooth Wireless Wall Switch: KTSL-WS1-B-SG/G2

   Battery Powered: 2x CR2032
  - 5 Button: Power Toggle, Dimming, Automatic Sensor/Preset Level Operation, Scene Activation



- USB Time Keeper: KTSL-TK1-USB
  - Relays time to system components after a power loss
  - Powered by standard USB charging port
  - Internal CR1220 battery backup





## GreenMAX DRC Wireless Networked Control System

### with Leviton Intellect Sensors & Controllers

The GreenMAX DRC Wireless Keypad Room Controllers are used as the brain of the system, managing the fixture integrated Leviton Intellect sensors & controllers. Wirelessly commission, configure, control, monitor and provision the GreenMAX DRC system using the GreenMAX DRC App and an Android or iOS smart device.

- Occupancy/Vacancy Sensing
- Multi-Level Lighting, Partial-On, Partial-Off
- Daylight Harvesting
- Task Tuning
- Scheduling
- Grouping
- Demand Response
- BMS Integration
- ZigBee 2.4 GHz Wireless Mesh Network
- Up to 75' between devices

\* DRKDN-UxW room controller required for full functionality and programming of Intellect sensors & controllers



ZLxS

- PIR Occupancy Sensor
- Daylight Sensor
- 0-10V or DALI
- Up to 20' mounting height



Wireless fixture controller, no sensor0-10V or DALI

### DRKDN-UxW Room Controllers



- 1-, 2-, 4-, and 8-button configurations
- Line voltage powered: 120-277V
- Max capacity: 60 devices
- Programmable: On/Off/Raise/Lower/ Toggle/Scene
- Use any Android or iOS device for configuration using the GreenMAX DRC App

### Enlighted: All-in-one sensors, upgradeable systems

Enlighted

Connected (ZENLC)

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1

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Enlighted IoT (ZENLI)

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Enlighted's SMART Micro Sensor is an all-in-one unit: task tuning, high-end trimming, daylight harvesting, and occupancy/vacancy detection. **Max installation** height is 15 feet.

Enlighted Connected ("ZENLC") offers many features, including motion and switch groups, daylight harvesting, energy reporting, and more. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Enlighted Connected can be fully upgraded to the next tier in the future. So if you start with ZENLC but want to add the functionality of the ZENLI option, you can.



### Real-time data analytics

Enlighted's control units compile data in real-time, which can be viewed via the Energy Manager. The Energy Manager is part of the Enlighted Connected and Enlighted IoT configurations.

- Real-time measurements and verification of energy savings
- Space analytics data can be compiled into motion trails and heat maps
- Analyze traffic density and congestion in a space



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Enlighted Capabilities\*

Motion and Switch Groups Daylight Harvesting

Energy Reporting & Optimization

Where & Space Applications

Future App & API Ready

Environment Data & Lighting Controls API Building Management System Integration

Location & Occupancy APIs & Beaconing

Schedule Lighting

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