

Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

LED

FFL P G2 4 | 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

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 www.LumenFocus.com 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.)



Ordering Guide:

example: FFL P G2 4 LW UV FA 940 QC20 ZOSM C6

Series	Size	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options
FFL P G2	4			FA				
FFL P G2 FFL P Gen 2	4 4'	SL Super Low	UV 120-277	FA Frosted Acrylic	930 90 CRI/3000K	Blank None (Surface or Pendant Mount)	Blank No Controls	Blank No Options
		VL Very Low	34 347V		935 90 CRI/3500K	VC V-Chain Hangers	ZSOL Leviton Programmable PIR Occupancy/Daylight Harvesting Sensor (On/Off/Dim) ⁽¹⁾	EXT10 10-Year Extended Warranty ⁽⁴⁾
		LW Low			940 90 CRI/4000K	QC 10' Quick Hang Cable Kit	ZOSMD Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) ⁽²⁾	C6 6' Single Circuit Cord
		MD Medium			950 90 CRI/5000K	QC20 20' Quick Hang Cable Kit	ZLDS Leviton Intellect DALI Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork Capabilities ⁽³⁾	C65W 6' Single Circuit Cord With Low Voltage Connections
		HI High					ZL7S Leviton Intellect 0-10V Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork Capabilities ⁽³⁾	C10 10' Single Circuit Cord
		VH Very High					ZL7C Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities ⁽³⁾	C105W 10' Single Circuit Cord With Low Voltage Connections
		SH Super High					ZENLO Enlighted One Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	P(NEMA) Plug (Specify NEMA Configuration)
							ZENLC Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	EM1 Emergency Kit - Up to 8W ⁽⁵⁾
							ZENLI Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	EM2 Emergency Kit - Up to 16W ⁽⁵⁾
								LVL 0-10V Dimming Leads for Easy Field Access
								BAA Buy American Act Compliant

Notes

⁽¹⁾ See page 4 for more details.

⁽²⁾ 120-277V only. See page 4 for more details.

⁽³⁾ See page 5 for more details.

⁽⁴⁾ Not available on all models. Certain conditions apply.

Consult factory or sales representative for details.

⁽⁵⁾ 120-277V only / 0°C-50°C ambient.

Controls Accessories (order separately)



For Leviton Programmable Sensor
ZLS0R-RA1 IR Programming Remote



For Leviton Intellect Controls
DRKDN-U1W 1-Button Wireless Wall Controller
DRKDN-U2W 2-Button Wireless Wall Controller
DRKDN-U2W 4-Button Wireless Wall Controller
DRKDN-U8W 8-Button Wireless Wall Controller



For Enlighted Controls
WS-2-00 Enlighted Remote Control Wall Switch (for Enlighted Connected & IoT)
WS-2-00-IL Enlighted Remote Control Wall Switch (for Enlighted One)

Dimensions:

FFLP 4
Length: 48"
Width: 9.7"
Height: 4.155"



Performance Chart:

Catalog #	Watts	Lumens (830)	LPW (830)	Lumens (835)	LPW (835)	Lumens (840)	LPW (840)	Lumens (850)	LPW (850)
FFL P G2 4 SL UV FA 9xx	15.1	2012.7	132.9	2021.1	133.5	2069.2	136.6	2069.2	136.6
FFL P G2 4 VL UV FA 9xx	21.4	2957.8	138.1	2970.3	138.7	3040.8	142.0	3040.8	142.0
FFL P G2 4 LW UV FA 9xx	28.4	3964.3	139.7	3981.0	140.3	4075.6	143.6	4075.6	143.6
FFL P G2 4 MD UV FA 9xx	35.2	4944.2	140.5	4965.0	141.1	5083.0	144.5	5083.0	144.5
FFL P G2 4 HI UV FA 9xx	43.5	5947.2	136.8	5972.3	137.4	6114.1	140.6	6114.1	140.6
FFL P G2 4 VH UV FA 9xx	56.8	7865.0	138.4	7898.2	139.0	8085.8	142.3	8085.8	142.3
FFL P G2 4 SH UV FA 9xx	74.4	9873.9	132.6	9915.6	133.2	10151.1	136.4	10151.1	136.4



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	Type	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
ZLxS	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLC (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*, LLC (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)
ZENLO	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Upgradable to Connected (ZENLC) or IoT (ZENLI)	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted Room Controller WS-2-00-IL (sold separately)
ZENLC	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, Upgradable to IoT (ZENLI), LLC (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 Monitoring*, BMS Integration*, LLC (Enlighted IoT)*, Space - Building Utilization*, Where - Real Time Location Services*	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software

LLC = Luminaire Level Lighting Control

* Additional equipment required. Contact LumenFocus representative for details

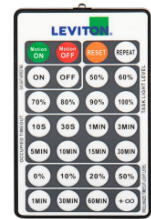
ZSOL option: Leviton Intellect Solo Sensor

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.

Other 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



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



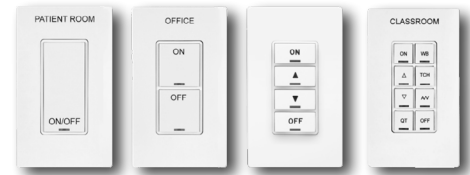
- PIR Occupancy Sensor
- Daylight Sensor
- 0-10V or DALI
- Up to 20' mounting height

ZLxC



- Wireless fixture controller, no sensor
- 0-10V 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'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.** For higher mounting applications, contact the factory for controls options.

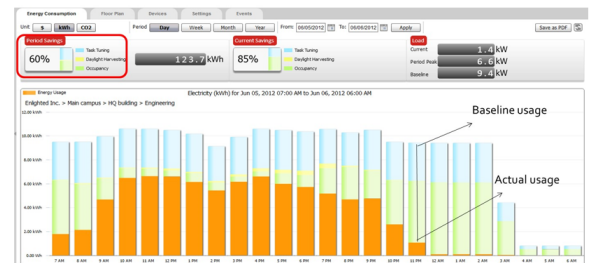
Enlighted sensors come standard with the Enlighted One system (the "ZENLO" option). Enlighted Connected ("ZENLC") offers even more options. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Each system can be fully upgraded to the next tier in the future. So if you start with Enlighted One but want to add energy reporting or building management systems integration in the future, 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



Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	✓	✓	✓
Daylight Harvesting	✓	✓	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓	✓
Where & Space Applications			✓
Location & Occupancy APIs & Beacons			✓
Future App & API Ready			✓

Learn more about our available advanced controls options here:

www.lumenfocus.com/controls-overview

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Note: Additional equipment required ZENLC and ZENLI

