LumenFécus

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



FFL G2 14 | LED Lay-In

Features:

- High performance LED technology
- 90+ CRI standard
- 0-10V dimming drivers standard
- Field replaceable LED boards and drivers
- Frosted diffuser optimized to balance efficiency and aesthetics
- Available in a wide variety of lumen outputs for maximum flexibility
- Low profile and lightweight housing allows for easy installation
- Advanced controls available

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

Applications:

Suitable for most commercial and institutional applications

- Office
- Retail
- Classrooms
- Healthcare Facilities

Predicted Lifetime:

- L70: 131,000 hrs (calculated)
- L80: 83,000 hrs (calculated)
- L90: 40,000 hrs (reported)
- 85% lumen maintenance @ 60,000
 hrs

(based on LM80 and insitu laboratory testing)

Construction:

- Die-formed heavy-gauge cold rolled steel ballast housing with precision brake formed aluminum LED tray
- Frosted Acrylic Diffuser
- White enamel finish

Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/



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.)









FormFocus

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Ordering Guide:

Series	Size	Output	Voltage	Shielding	CRI/CCT	Mounting	Controls	Options
FL G2	14			FA				
F FL G2 FFL Gen 2	14 1' x 4'	SL Super Low	UV 120-277	FA Frosted Acrylic	930 90 CRI/3000K	Blank	Blank No Controls	Blank No Options
		VL Very Low	34 347V		935 90 CRI/3500K	SMK Surface Mount Kit	ZSOL Leviton Programmable PIR	EXT10 10-Year Extended Warranty ⁽⁴
		LW Low			940 90 CRI/4000K	FIK Frame-in Kit	Occupancy/Daylight Harvesting Sensor ⁽¹⁾ ZESMC	SD Step Dimming
		MD Medium			950 90 CRI/5000K		Philips EasySense Occupancy/ Daylight Harvesting sensor with	W6 6' Whip
		HI High					advanced grouping ⁽²⁾ ZLDS Leviton Intellect DALI Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork	W10 10' Whip EM6 6.5W Emergency Pack ⁽⁵⁾
20-277V c ee page 5 lot availab consult fac 20-277V / mergency f the lumin x. FFL G2 1 ONTO ONTO	i for more of ble on all m tory or sal 0°C-55°C a mode, mult aire it is inst 4 MD UV F IS ACC Leviton Pr	age 4 for mor details. nodels. Certair es representat ambient. To es tiply EM wattag alled in. A 940 EM10 → CESSOTIES rogrammable	ive for details. timate lumen o e by the Lumen 145.5 LPW x 10 5 (order se sensor	utput in ns per Watt W = 1,455 lm parately)			ZL7S Leviton Intellect 0-10V Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽³⁾ ZLDC Leviton Intellect DALI Fixture Controller with Newtork Capabilities ⁽³⁾ ZL7C Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities ⁽³⁾	EM10 10W Emergency Pack ⁽⁵⁾ EM14 14W Emergency Pack ⁽⁵⁾ F Fuse GC Grid Clip SDT(347V) 347V to 277V Step Down Transformer AR
ZLSC	DR-RA1	IR Pro	IR Programming Remote ZENLO Plenum Ceil Enlighted One Micro Sensor with Dimming/Occupancy/Daylight L				AK Plenum Ceiling Air Return LVL 0-10V Dimming Leads for Ea	
ZBT-	-S1AWH -S2AWH	Illumra Illumra	Sense Controls ZENLC Illumra Single Rocker Self-Powered Zigbee Wall Switch ZENLC Illumra Double Rocker Self-Powered Zigbee Wall Switch Enlighted Connected Micro Sensor					Field Access BAA Buy American Act Complian
DRK DRK DRK	Leviton In DN-U1W DN-U2W DN-U2W DN-U8W	2-Butto 4-Butto	lect Controls 1-Button Wireless Wall Controller 2-Button Wireless Wall Controller 4-Button Wireless Wall Controller 8-Button Wireless Wall Controller				ZENLI Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	
WS-	Enlighted 2-00 2-00-IL	Enlight (for Enl Enlight	ighted Conne	ontrol Wall Switch cted & IoT) ontrol Wall Switch				

Schematic:

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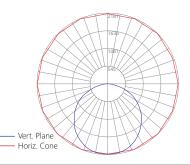
FFL G2 14 | LED LAY-IN

Performance Chart:

Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
FFL G2 14 SL UV FA xxx	14.1	1881.3	133.2	1889.2	133.8	1934.1	137.0	1934.1	137.0
FFL G2 14 VL UV FA xxx	21.0	2907.2	138.7	2919.4	139.3	2988.8	142.6	2988.8	142.6
FFL G2 14 LW UV FA xxx	27.9	3922.6	140.7	3939.2	141.3	4032.7	144.7	4032.7	144.7
FFL G2 14 MD UV FA xxx	33.7	4773.1	141.6	4793.3	142.2	4907.1	145.5	4907.1	145.5
FFL G2 14 HI UV FA xxx	42.6	5861.0	137.7	5885.7	138.3	6025.5	141.6	6025.5	141.6

Photometric Data: FFL G2 14 HI UV FA 950

Test No.: LLIA001588-027 Luminaire Lumens: 6,026 lm Luminaire Watts: 42.6W Efficacy: 141.6 LPW Spacing Criterion (0-180): 1.22 Spacing Criterion (90-270): 1.28



Re-board ABILITY

The FFL 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.





Click here for a video demonstration of the re-boarding process on a FFL. Note: Exact time varies depending on the model.

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		
ZESMC	Motion (PIR), Daylight Harvesting LLLC (Philips Master Connect) Wireless Zigbee 2.4 GHz, Programmable via Philips MasterConnect App		Wireless Zigbee 2.4 GHz, Programmable via Philips MasterConnect 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 Andra 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)		
ZENLO	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Upgradable to Connected (ZE-NLC) 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 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



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ZSOL option: Leviton Intellect Solo Sensor

The FFL 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.



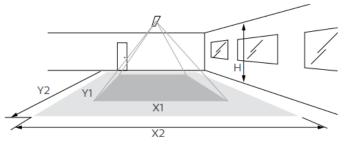
FormFocus available with Philips EasySense Sensors

EasySense MC Sensors are the ideal solution for per-luminaire control of new LED luminaires. It combines occupancy and daylight sensing in one package. The result is a cost-effective and easy-to-install solution ideal for energy savings. Commissioning and configuration during and after installation is quick and easy using the Philips MasterConnect app. This app works via Bluetooth Low Energy (BLE) technology and is available for free in the App Store and the Google Play Store.



- Occupancy sensing, daylight harvesting, and task tuning in one device
- 8' to 10' mounting height
- Groups/networks up to 120 lights
- Enables auto-off/manual-on and auto-off/partial-on application
- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning
- Occupancy Sharing
- Scene Setting
- Advanced grouping to select Zigbee wireless wall switches
- Simple room level energy reporting with CSV file saved on the phone
- ZigBee 2.4 GHz Wireless Mesh Network
- 120-277V only, works with Philips Xitanium SR drivers

Detection Area:



Height	Minor Mo	vement	Major Movement		
Н	X1	Y1	X2	Y2	
8′	6′	10′	9′	14′	
10′	8'	12′	12′	18′	

Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of EasySense

- Minor movement (movement of a person sitting at an office desk reaching for a telephone, turning the pages in a book, opening a file folder, picking up a coffee cup, etc.)
- Major movement (movement of a person walking into or through an area.)

Room Controllers

- - Up to 120 sensors can be grouped to a single switch
 - Functions: On/Off, Dim-Up/Dim-Down, Scene 1, Scene 2 (Scenes: Dual Rocker Only)
 - Range: 30-100' (typical)



- Philips SWS200 Zigbee Green Power 4-button
 Wall Switch
 - Battery Powered
 - Up to 120 sensors can be grouped to a single switch
 - Functions: On/Off, Dim-Up/Dim-Down, Scene 1, Scene 2
 - Range: 33' (typical)



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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

Room Configura.
Type Controller Address 200 writ 1.22.0019 LonacAA 1.21.007 Zyphe 1.21.008
Settings
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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 One (ZENLO)

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Enlighted

Connected (ZENLC)

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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 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.



Enlighted IoT (ZENLI)

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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



Learn more about our available advanced controls options here: www.lumenfocus.com/controls-overview

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Enlighted Capabilities*

Motion and Switch Groups

Energy Reporting & Optimization

Where & Space Applications

Future App & API Ready

Environment Data & Lighting Controls API

Building Management System Integration

Location & Occupancy APIs & Beaconing

Daylight Harvesting

Schedule Lighting

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Note: Additional equipment required ZENLC and ZENLI

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