LumenF@cus

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



FFL G2 22 | 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

Applications:

Suitable for most commercial and institutional applications

- Office
- Retail
- Classrooms
- Healthcare Facilities

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:

- 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.)









FORMF©CUS



© 2023 LumenFocus, LLC. LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications. www.lumenfocus.com 880 Facet Rd. | Henderson, NC 27537 252-430-6970 FFL_G2_22_LED_v1.2 Page 1 of 5

LumenF@cus

Ordering Guide:

Juem	ng Gui	ue.					example: FFL	G2 22 MD UV FA 935 E
Series	Size	Output	Voltage	Shielding	CRI/CCT	Mounting	Controls	Options
FFL G2	22			FA				
FFL G2 FFL Gen 2	22 2' x 2'	SL Super Low	UV 120-277	FA Frosted Acrylic	930 90 CRI/3000K	Blank None	Blank No Controls	Blank No Options
Notes		VL Very Low LW Low MD Medium HI High	34 347V		935 90 CRI/3500K 940 90 CRI/4000K 950 90 CRI/5000K	SMK Surface Mount Kit FIK Frame-in Kit	Ite centers ZSOL Leviton Programmable PIR Occupancy/Daylight Harvesting Sensor ¹⁰ ZESMC Philips EasySense Occupancy/ Daylight Harvesting sensor with advanced grouping ⁽²⁾ ZLDS Leviton Intellect DALI Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽⁵⁾ ZLTS	EXT10 10-Year Extended Warranty ⁽⁴⁾ SD Step Dimming W6 6' Whip W10 10' Whip EM1 Emergency Kit - 12W 1200 nominal lumens ⁽⁵⁾ F
⁽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 ZLSOR-RA1 IR Programming Remote						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⁾ ZENLO Enlighted One Micro Sensor with Dimming/Occupancy/Daylight	Fuse GC Grid Clip SDT(347V) 347V to 277V Step Down Transformer AR Plenum Ceiling Air Return LVL 0-10V Dimming Leads for Easy Field Access BAA Buy American Act Compliant	
For Philips EasySense ControlsZBT-S1AWHIllumra Single Rocker Self-Powered Zigbee Wall SwitchZBT-S2AWHIllumra Double Rocker Self-Powered Zigbee Wall SwitchSWS200Philips Zigbee Green Power 4-Button Wall Switch							Harvesting ⁽³⁾ ZENLC Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	
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							ZENLI Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽³⁾	
WS-	Enlighted 2-00 2-00-IL	Enlighte (for Enl Enlighte	ighted Conned	ntrol Wall Switch cted & IoT) ntrol Wall Switch			Schematic:	2.380

 $\ensuremath{\mathbb{O}}$ 2023 LumenFocus, LLC. LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications.

 \bowtie

www.lumenfocus.com 880 Facet Rd. | Henderson, NC 27537 252-430-6970 FFL_G2_22_LED_v1.2 Page 2 of 5

-23.750-

Lumen Føcus

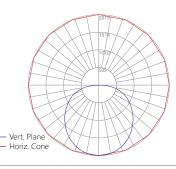
FFL G2 22 | LED LAY-IN

Performance Chart:

Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
FFL G2 22 SL UV FA xxx	14.4	1817.9	126.1	1825.6	126.6	1868.9	129.6	1868.9	129.6
FFL G2 22 VL UV FA xxx	21.6	2755.9	127.6	2767.5	128.1	2833.3	131.2	2833.3	131.2
FFL G2 22 LW UV FA xxx	28.5	3717.3	130.3	3733.0	130.8	3821.6	133.9	3821.6	133.9
FFL G2 22 MD UV FA xxx	34.2	4597.1	134.4	4616.5	135.0	4726.1	138.2	4726.1	138.2
FFL G2 22 HI UV FA xxx	42.8	5581.1	130.4	5604.7	131.0	5737.8	134.1	5737.8	134.1

Photometric Data: FFL G2 22 HI UV FA 950

Test No.: LLIA001588-024 Luminaire Lumens: 5,737.8 lm Luminaire Watts: 42.8W Efficacy: 134.1 LPW Spacing Criterion (0-180): 1.20 Spacing Criterion (90-270): 1.26





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	High/Low/Off, High-End Trim, Grouping, Room Level Energy Monitoring, LLLC (Philips Master Connect)	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 An 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



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.



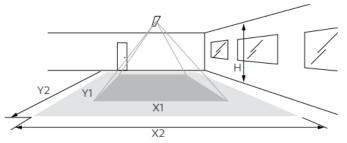
FormFocus available with Philips EasySense Sensors

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)



© 2023 Signify Holding for all EasySense content and images

 $\ensuremath{\mathbb{C}}$ 2023 LumenFocus, LLC. LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications.

www.lumenfocus.com 880 Facet Rd. | Henderson, NC 27537 252-430-6970

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 reauired 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 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 One (ZENLO)

~

Enlighted

Connected (ZENLC)

./

./

1

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)

./

~

1

1

~

~

Enlighted's control units compile data in real-time, which can be viewed via the Energy Manager. The Energy Manager

- 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

© 2023 Enlighted for all Enlighted content and images.

© 2023 Leviton Manufacturing Co. Inc. for all Leviton content and images.



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

© 2023 LumenFocus, LLC. LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications.

Note: Additional equipment required ZENLC and ZENLI

www.lumenfocus.com 880 Facet Rd. | Henderson, NC 27537 252-430-6970

Real-time data analytics

is part of the Enlighted Connected and Enlighted IoT configurations.