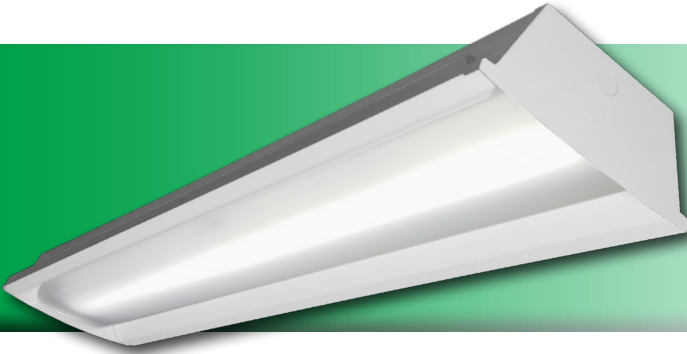




Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____



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
- 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 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 ZOSMD C6

Series	Size	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls ⁽¹⁾	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	ZOSMD Leviton Microwave 0-10V Multi-Level Occupancy Sensor with Photocell	EXT10 10-Year Extended Warranty ⁽²⁾
		LW Low			940 90 CRI/4000K	QC 10' Quick Hang Cable Kit	ZSOL Leviton Programmable 0-10V dimming Occupancy Sensor with Daylight Harvesting, Task Tuning	C6 6' Single Circuit Cord
		MD Medium			950 90 CRI/5000K	QC20 20' Quick Hang Cable Kit	ZSLFC2 Keystone SmartLoop Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling	C65W 6' Single Circuit Cord With Low Voltage Connections
		HI High					ZL7S Leviton Intellect Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling, Networking Capabilities	C10 10' Single Circuit Cord
		VH Very High					ZL7C Leviton Intellect Bluetooth-enabled Programmable 0-10V fixture controller with Task Tuning, Grouping, Scheduling, Networking Capabilities	C105W 10' Single Circuit Cord With Low Voltage Connections
		SH Super High					ZLDS Leviton Intellect Bluetooth-enabled Programmable DALI Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling, Networking Capabilities	P(NEMA) Plug (Specify NEMA Configuration)
							ZLDC Leviton Intellect Bluetooth-enabled Programmable DALI fixture controller with Task Tuning, Grouping, Scheduling, Networking Capabilities	EM6 6.5W Emergency Pack ⁽³⁾
							ZLTS LiteTrace Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling, Advanced Networking & IoT Capabilities	EM10 10W Emergency Pack ⁽³⁾
							ZLTC LiteTrace Bluetooth-enabled Programmable 0-10V fixture controller with Task Tuning, Grouping, Scheduling, Advanced Networking & IoT Capabilities	EM14 14W Emergency Pack ⁽³⁾
								LVL 0-10V Dimming Leads for Easy Field Access
								BAA Buy American Act Compliant

Notes

⁽¹⁾ See 'Control Summary' on Page 4 for more details.

⁽²⁾ Not available on all models. Certain conditions apply. Consult factory or sales representative for details.

⁽³⁾ 120-277V / 0°C-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 4 MD UV FA 940 EM10 → 144.5 LPW x 10W = 1,445 lm

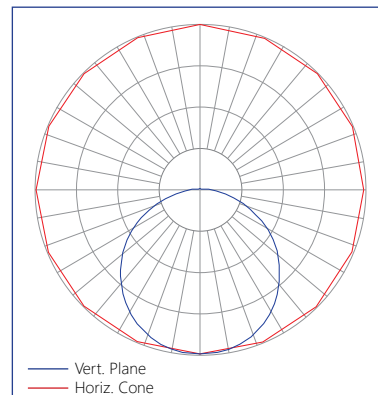


Controls Accessories *(order separately)*

Accessory Code	Description	Control Compatibility	Additional Info
ZLSOR-RA1	Wireless IR Configuration Tool	ZSOL	pg. 4
KTSL-WS1-B-SG/G2	5-Button Bluetooth Wireless Wall Switch (battery powered)	ZSLHB	pg. 5
KTSL-TK1-USB	USB Time Keeper	ZSLHB	pg. 5
DRKDN-U1W	1-Button Wireless Wall Controller (line voltage powered)	ZL7S, ZL7C, ZLDS, ZLDC	pg. 5
DRKDN-U2W	2-Button Wireless Wall Controller (line voltage powered)	ZL7S, ZL7C, ZLDS, ZLDC	pg. 5
DRKDN-U4W	4-Button Wireless Wall Controller (line voltage powered)	ZL7S, ZL7C, ZLDS, ZLDC	pg. 5
DRKDN-U8W	8-Button Wireless Wall Controller (line voltage powered)	ZL7S, ZL7C, ZLDS, ZLDC	pg. 5
WP1013	3-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTS, ZLTC	pg. 6
WP1025	5-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTS, ZLTC	pg. 6
WP1018	8-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTS, ZLTC	pg. 6
WP1018A	8-Button Bluetooth Wireless Wall Switch (battery powered)	ZLTS, ZLTC	pg. 6
WP10135S	3-Button Bluetooth Wireless Wall Switch (line voltage)	ZLTS, ZLTC	pg. 6
WP1017S	7-Button Bluetooth Wireless Wall Switch (line voltage)	ZLTS, ZLTC	pg. 6
IWS102	Bluetooth Wireless Wall Switch w/ PIR Sensor (line voltage)	ZLTC	pg. 6

Photometric Data:

Relative Luminous Intensity



Dimensions:

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

Performance Chart:

Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
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 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:

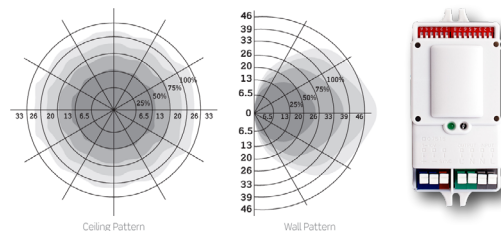
Control Code	Occupancy	Daylight	Tech	Voltage	Dim	Max Mounting Ht.	Networking	Scheduling	BMS Integration	User Interface	Add. Info
ZOSMD	On/Low/Off	Hold Off	Microwave	120-277V	0-10V	40'	N/A	X	X	On Device	pg. 4
ZSOL	High/Low/Off	Daylight Harvesting	PIR	12-24VDC	0-10V	10'	N/A	X	X	On Device, IR Remote*	pg. 4
ZSLFC2	High/Low/Off	Daylight Harvesting	PIR	10-15VDC	0-10V	16'	Bluetooth Mesh	✓	X	iOS / Android App, Wireless Wall Switch*	pg. 5
ZL7S	High/Low/Off	Daylight Harvesting	PIR	12-24VDC	0-10V	20'	ZigBee 2.4GHz Mesh	✓	✓	iOS / Android App, Wireless Wall Switch (required)*	pg. 5
ZL7C	N/A	N/A	N/A	12-24VDC	0-10V	N/A	ZigBee 2.4GHz Mesh	✓	✓	iOS / Android App, Wireless Wall Switch (required)*	pg. 5
ZLDS	High/Low/Off	Daylight Harvesting	PIR	DALI-2 (120-277V)	DALI	20'	ZigBee 2.4GHz Mesh	✓	✓	iOS / Android App, Wireless Wall Switch (required)*	pg. 5
ZLDC	N/A	N/A	N/A	DALI-2 (120-277V)	DALI	N/A	ZigBee 2.4GHz Mesh	✓	✓	iOS / Android App, Wireless Wall Switch (required)*	pg. 5
ZLTS	High/Low/Off	Daylight Harvesting	PIR	120-277V	0-10V	18'	Bluetooth LE Mesh	✓	✓	iOS / Android App, Wireless Wall Switch*, Autani Web Interface*	pg. 6
ZLTC	N/A	N/A	N/A	12VDC	0-10V	N/A	Bluetooth LE Mesh	✓	✓	iOS / Android App, Wireless Wall Switch*, Autani Web Interface*	pg. 6

* Sold Separately

ZOSMD: Leviton Microwave Multi-level Dimming Sensor

The Leviton OSM3D-DDW (or equivalent) detects motion through low density materials using high frequency electromagnetic waves. This means it can sit discretely behind the FFL P's frosted lens. The ZOSMD features automatic switching based on motion and ambient light level. The ZOSMD also adds step-dimming functionality.

- Stand-by dimming levels: 10% / 20% / 30% / 50%
- Ambient light override
- Up to 40' mounting height**
- 26' detection radius at 40' height
- 120-277V
- IP20 rated
- Can be used to comply with ASHRAE 90.1, IECC and 2019 Title 24, Part 6 occupancy sensing and dimming requirements.



ZSOL: Leviton Intellect Solo Sensor

The FFL P 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.



ZLSOR-RA1



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

ZSLFC2



- 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**

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



LiteTrace | Keilton+autani: Wireless networked controls, upgradeable systems

LiteTrace makes your existing building smarter by integrating the Keilton lighting controls platform with Autani's proven energy management, reporting, and control platform. Keilton+autani systems are flexible, adaptable, and resilient, providing solutions designed to scale up without having to change hardware.

Scalable product tiers allow implementing a solution aligned to your current needs, with robust upgrade pathways to expand capabilities as requirements evolve.

Capabilities	Keilton+autani (ZLTSx)	Energy Center by Autani *	Autani Insights *
Motion and Switch Groups	✓	✓	✓
Daylight Harvesting	✓	✓	✓
Schedule Lighting	✓	✓	✓
Energy Reporting & Optimization	✓	✓	✓
Overrides & Automated Demand Response	✓	✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management & System Integration		✓	✓
Building Optimization Application			✓
Location & Occupancy APIs & Beacons			✓
Future App & API Ready			✓

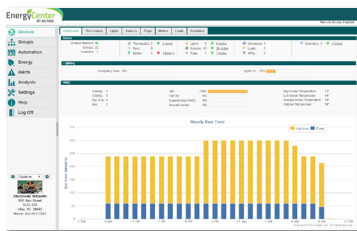
* additional hardware and software required.

Keilton+autani An easy and affordable stand-alone (gateway-free) room-based Bluetooth lighting control solution controllable via mobile app (iOS & Android).



EnergyCenter
BY AUTANI

A networked control solution which offers additional functionality such as advanced scheduling, reporting, metering, and building management integration.



INSIGHTS
autani

The most advanced offering, providing valuable data insights into a single building or a portfolio of buildings. This allows for asset tracking, campus-wide wayfinding, 3D facility monitoring and more.



ZLTS



- Requires a dim-to-off LED driver with 12V Aux output
- PIR + Daylight Harvesting
- IP20 Rated
- 0-10V DC dimmable
- Bluetooth-enabled
- **Up to 18' mounting height.** 16' radius at 15' height.

ZLTC



- Wireless 0-10V fixture controller
- Integral Bluetooth module
- 12VDC Input

Room Controllers



WP1013 WP1025 WP1018 WP1018A

Battery Powered

- 3-, 5-, and 8-button configurations
- Bluetooth Enabled
- 1 x CR2032 battery (WP1013, WP1025, WP1018)
- 2 x AAA batteries (WP1018A)
- Approx. 3 year battery life (batteries not included)



WP1013S WP1017S IWS102

Line Voltage

- 3-, 7-button configurations, and Occ/Vac Sensor Switch
- Line voltage powered: 120-277V
- Bluetooth Enabled

