



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



WVL F G2 2 | LED Vaportight High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models
- Multiple hanging options, including surface, chain, and aircraft cable, for easy installation
- Pre-wired 6' single circuit cord comes standard. Other cord options available
- Durable materials and craftsmanship allows the WVL F to withstand some of the harshest environments
- Buy American Act compliant (*All base luminaires are BAA compliant. Addition of options may change eligibility. Contact factory for details.*)

Applications:

Most industrial, retail, and recreational low bay and high bay applications

- Warehouse
- Manufacturing Facility
- Food Processing
- Cold/Frozen Storage (*cold temperature rules apply. Refer to warranty document at www.lumenfocus.com/support for details*)

Predicted Lifetime:

- L70 ≥ 131,000 hrs (calculated)
 - L90 ≥ 40,000 hrs (reported)
- (based on LM-80, TM-21 and in-situ laboratory testing)

CAUTION: Due to high pressure washdown requirements, fixture minimum mounting height is 14 feet above the floor. Lens system should never be removed by anyone but a factory-approved trained technician using torque wrenches.

Construction:

- UL 5VA fiberglass housing (will not melt or burn)
- Clear polycarbonate lens
- Pre-painted aluminum board trays
- Stainless steel mounting hardware

Certifications:

- UL 1598 listed for US and Canada, suitable for wet locations
- IP66
- NEMA 4X
- NSF
- PSI 1500
- RoHS



Warranty:

- 5 year limited system warranty - see www.LumenFocus.com for complete warranty terms and conditions



Ordering Guide:

example: WVL F G2 2 HI UV CFP 940 RBS C6

Series	Version	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls ⁽¹⁾	Cords	Options
WVL F	G2	2								
WVL F Flat Bottom Vaportight	G2 Gen 2	2 2'	VL Very Low	UV 120-277	CFP Clear Flat Polycarbonate	930 90 CRI/3000K	Blank V-Hook (For Chain or Cable Mount)	Blank No Controls	C6 6' Single Circuit Cord (Comes Standard)	Blank No Options
			LW Low	34 347V	CFPP Heavier Gauge Clear Flat Polycarbonate	935 90 CRI/3500K	RBS Rigid Mounting Beam - Stainless Steel	ZOS Occupancy Sensor (On/Off)	C6(LVL) C6 With Integrated Dimming Leads	P(NEMA) Plug (Specify NEMA configuration)
			MD Medium	48 480V		940 90 CRI/4000K	RBZ Rigid Mounting Beam - Zinc Plated	ZOSMD Leviton Microwave 0-10V Multi-Level Occupancy Sensor with Photocell	C10 10' Single Circuit Cord	EM6 6.5W Emergency Pack ^(3,5)
			HI High			950 90 CRI/5000K	RBZ Rigid Mounting Beam - Zinc Plated	Z221Bxx ⁽²⁾ Wattstopper Programmable 0-10V Multi-Level Occupancy Sensor with Photocell, Task Tuning	C10(LVL) C10 With Integrated Dimming Leads	EM10 10W Emergency Pack ^(3,5)
							FCM Flexible Ceiling Mount	Z321Bxx ⁽²⁾ Wattstopper Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning	D6 6' Dual Circuit Cord	EM14 14W Emergency Pack ^(3,5)
							QC 10' Quick Hang Cable Kit	ZOFD1 Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping	D10 10' Dual Circuit Cord	EM10C 10W Cold Temp. Emergency Pack ^(4,5)
							QC20 20' Quick Hang Cable Kit	ZOFDU Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling		EM16C 16W Cold Temp. Emergency Pack ^(4,5)
							HUB Hub For Pendant Mounting (Stem Not Included)	ZESMC Philips EasySense Bluetooth-enabled Programmable DALI Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling		F Fuse
								ZLTS LiteTrace Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling, and Advanced Networking & IoT Capabilities		SDT(480V) 480V To 277V Step Down Transformer
								ZLTC LiteTrace Bluetooth-enabled Programmable 0-10V fixture controller with Task Tuning, Grouping, Scheduling, and Advanced Networking & IoT Capabilities		BAA Buy American Act Compliant

Notes

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

⁽²⁾ 'xx' = select lens type based on mounting height and coverage area. See 'Control Summary' on Page 4 for more details.

⁽³⁾ 120-277V / 0°C-55°C ambient.

⁽⁴⁾ 120-277V / -20°C-55°C ambient. Adds up to 11W to luminaire system wattage.

⁽⁵⁾ To estimate lumen output in emergency mode, multiply EM wattage by the Lumens per Watt of the luminaire it is installed in.
ex. WVL F G2 2 HI UV CFP 950 EM10 → 145.5 LPW x 10W = 1,455 lm

Controls Accessories (order separately)

Accessory Code	Description	Control Compatibility	Additional Info
FSIR-100	Wireless IR Configuration Tool	Z221Bxx	pg. 5
ZBT-S1AWH	Single Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	pg. 5
ZBT-S2AWH	Dual Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	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

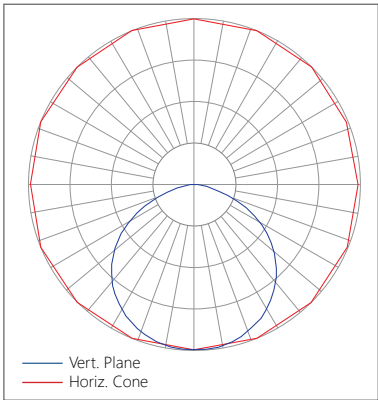


Performance Chart:

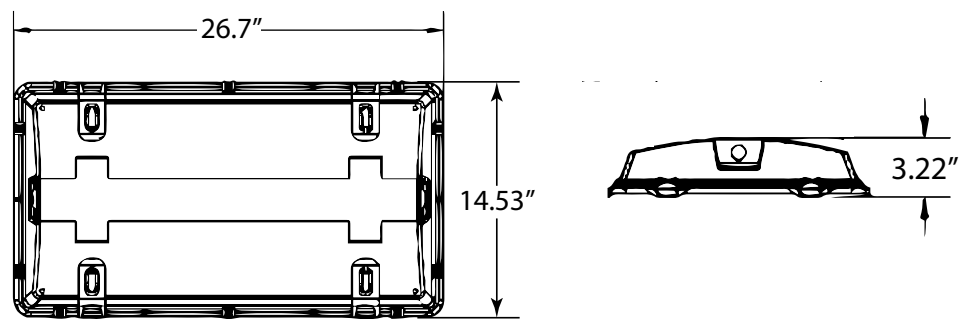
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
WVL F G2 2 VL UV CFP 9xx	55.7	7734.5	138.8	7767.1	139.4	7951.6	142.7	7951.6	142.7
WVL F G2 2 LW UV CFP 9xx	82.6	11569.0	140.1	11617.7	140.7	11893.7	144.1	11893.7	144.1
WVL F G2 2 MD UV CFP 9xx	111.5	15469.0	138.8	15534.2	139.4	15903.1	142.7	15903.1	142.7
WVL F G2 2 HI UV CFP 9xx	127.3	18022.6	141.6	18098.6	142.2	18528.5	145.5	18528.5	145.5

Photometric Data:

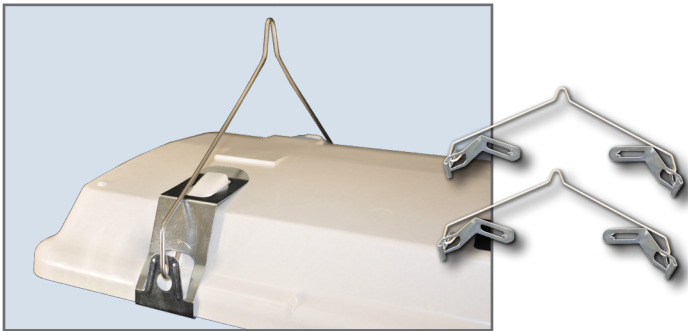
Relative Luminous Intensity



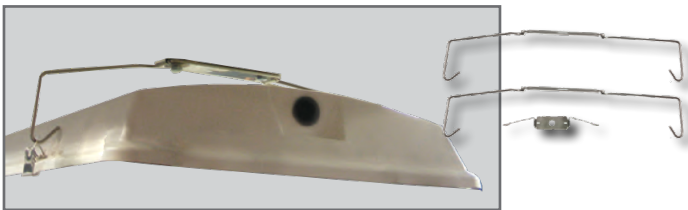
Schematic:



Mounting:



V-Hook For chain or cable mount (comes standard)



FCM Flexible Ceiling Mount



RBS/RBZ Rigid Mounting Beam
(RBS = stainless steel;
RBZ = zinc-plated)





The WVL F 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
ZOS	On/Off	N/A	PIR	120-347V	N/A	20', 40', Aisle Mask (all included)	N/A	X	X	On Device	pg. 4
ZOSMD	On/Low/Off	Hold Off	Microwave	120-277V	0-10V	40'	N/A	X	X	On Device	pg. 4
Z221Bxx	High/Low/Off	High/Low/Off	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	X	X	IR Remote*	pg. 5
Z321Bxx	High/Low/Off	Daylight Harvesting	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	X	X	iOS / Android App	pg. 5
ZOFD1	High/Low/Off	Daylight Harvesting	PIR	120-277V	0-10V	20', 40', Aisle Mask (all included)	Bluetooth Mesh	X	X	iOS / Android App	pg. 5
ZOFDU	High/Low/Off	Daylight Harvesting	PIR	120-277V, 347V, 480V	0-10V	20', 40', Aisle Mask (all included)	Bluetooth Mesh	✓	X	iOS / Android App	pg. 5
ZESMC	High/Low/Off	Daylight Harvesting	PIR	DALI-2 (120-277V)	DALI	52'	ZigBee 2.4GHz Mesh	✓	X	iOS / Android App, Wireless Wall Switch*	pg. 5
ZLTS	High/Low/Off	Daylight Harvesting	PIR	12VDC	0-10V	40'	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

ZOS: On/Off Occupancy Sensor

The Leviton OSFHL-CTW (or equivalent) is an end mounted PIR On/Off motion sensor.

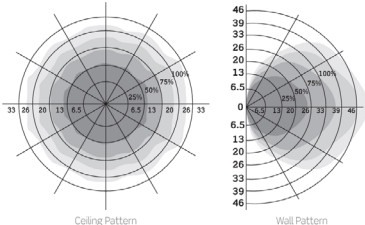
- Two interchangeable lenses included, as well as an aisle mask
 - Low Bay: **8' to 25' mounting height**
 - High Bay: **20' to 40' mounting height**
- IP65 rated



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 WVL F's 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.



Wattstopper Programmable Dimming Sensors (Z221B/Z321B)

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Rated for cold locations
- Parameters for Bluetooth-enabled Z321B adjustable via phone app - iOS or Android
- Parameters for Z221B adjustable via wireless configuration tool (FSIR-100 - sold separately)
- Three lenses available, tailored for the ideal detection area and mounting height:
 - L2: 360° lens, maximum coverage 48', diameter from 8' height
 - L3: 360° lens, maximum coverage 40', diameter from 20' height
 - L7: 360° lens, maximum coverage 100', diameter from 40' height



1) The Wattstopper FSP sensor. 2) The phone app interface for the Z321B. 3) The FSIR-100 wireless configuration tool for Z221B.

ZOFDx: Leviton Smart Sensors

The ZOFDx option includes four sensor lenses that can easily be installed or swapped out in the field. From left: the high bay lens (20'-40' mounting), the high bay lens with aisleway mask, the low bay lens (8'-20' mounting), and the low bay lens with aisleway mask.

- Leviton Smart IP66 passive infrared (PIR) sensors
- Features mesh grouping (16 devices per group), occupancy sensing, daylight harvesting, scheduling (for ZOSFDU only), single-level switching
- Comes pre-installed on the end cap
- Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetooth-enabled iOS or Android device



Philips EasySense Wireless Control System

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.

ZESMC



- Occupancy sensing, daylight harvesting, and task tuning in one device
- **up to 52' mounting height.** 26' radius at 52' 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
- Works with Advance Xitanium SR 120-277V drivers or other D4i certified LED drivers
- IP65 rated

Room Controllers

- Illumra ZBT-S1AWH (Single Rocker) or ZBT-S2AWH (Dual Rocker) wireless Zigbee wall switch
 - Self-Powered
 - 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)



ZBT-S1AWH



ZBT-S2AWH



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			✓

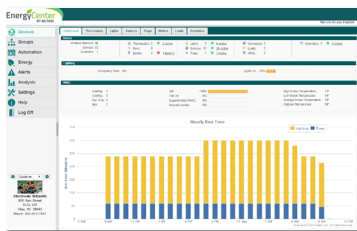
* additional hardware and software required.

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



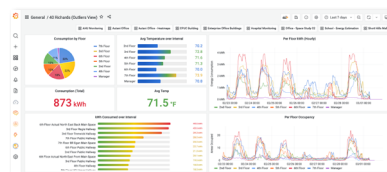
EnergyCenter
BY AUTANI

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



- 12VDC
- PIR + Daylight Harvesting
- **20' - 40' mounting height**
- up to 80' diameter at 40' height
- IP66 Rated
- 0-10V DC dimmable
- Bluetooth-enabled
- End mounted on luminaire with extension arm
- Comes in white (standard)

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

