



Project:	
Location:	
Cat. #:	
Type:	
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MADEINUSA

# WVL F G2 4 | LED Vaportight High Bay

#### Features:

- High performance LED technology
- 0-10V dimming drivers standard
- 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

## **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 <u>www.lumenfocus.com/support</u> for details)

#### Predicted Lifetime:

- L70 ≥ 129,000 hrs (calculated)
- L90 ≥ 39,000 hrs (reported) (based on LM-80, TM-21 and in-situ laboratory testing)

#### 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 <u>www.LumenFocus.com</u> for complete warranty terms and conditions

**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.







# Ordering Guide:

example: WVL F G2 4 MD UV CFP 940 QC C6

Series	Version	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Cords	Options
WVLF	<b>G</b> 2	4								
WVL F Flat Bottom Vaportight	<b>G2</b> Gen 2	4 4'	VL Very Low LW Low MD Medium	UV 120-277 34 347V 48 480V	CFP Clear Flat Polycarbonate CFPP Heavier Gauge Clear Flat Polycarbonate	930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K 950 90 CRI/5000K	Blank V-Hook (For Chain or Cable Mount)  FCM Flexible Ceiling Mount  QC 10' Quick Hang Cable Kit  QC20 20' Quick Hang Cable Kit  SC Safety Cable	Blank No Controls  ZOS Occupancy Sensor (On/Off) (1)  ZOSMD Microwave Photo/Motion Sensor With Step-Dimming (High/Low/Off) (1)  ZOFD1 Leviton Bluetooth-enabled Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) (1)	C6 6' Single Circuit Cord (Comes Standard)  C6(LVL) C6 With Integrated Dimming Leads  C10 10' Single Circuit Cord  C10(LVL) C10 With Integrated Dimming Leads	Blank No Options P(NEMA) Plug (Specify NEMA configuration)  F Fuse SDT(480V) 480V To 277V Step Down Transformer BAA Buy American Act Compliant
Notes  O Max mount  O "_" = lens ty more detail  Max mount advanced o	ype. Max i ls. ting heigh	mounting	height 4	0'. See Pa	age 4 for			ZOFDU Leviton Bluetooth-enabled Programmable Dirmming/ Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling (120-480V) (1)  Z221BL_ Wattstopper Programmable Photo/ Motion Multi-Voltage Sensor (high/low/off) (2)  Z321BL_ Wattstopper Bluetooth-enabled Programmable Dirmming/ Occupancy/Daylight Harvesting Multi-Voltage Sensor (2)  ZPC Photocell	D6 6' Dual Circuit Cord D10 10' Dual Circuit Cord	
WS- WS-	Is Acc Enlighted 2-00 2-00-IL WattStop -100	d Contro Enlighte (for Enlighte Enlighte (for Enlighte Oper Con	ls d Remote ghted Cor d Remote ghted On	e Control nnected e Control e)	Wall Switch	<i>(</i> )		ZENLO Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted One System (3)  ZENLC Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System (3)  ZENLI Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System (3)		





Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System <sup>(3)</sup>

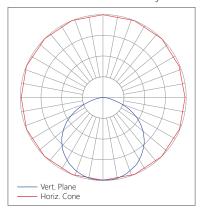


# Performance Chart:

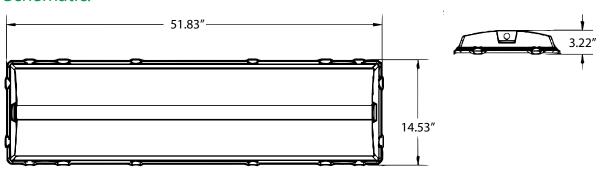
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
WVL F G2 4 VL UV CFP 9xx	111.5	15469.0	138.8	15534.2	139.4	15903.1	142.7	15903.1	142.7
WVL F G2 4 LW UV CFP 9xx	136.6	19201.8	140.6	19282.8	141.2	19740.7	144.6	19740.7	144.6
WVL F G2 4 MD UV CFP 9xx	169.3	23028.0	136.0	23125.1	136.6	23674.3	139.8	23674.3	139.8

### Photometric Data:

#### Relative Luminous Intensity



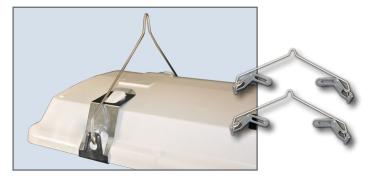
# Schematic:



# Mounting:



FCM Flexible Ceiling Mount



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





### **Controls Summary:**

Control Code	Туре	Capabilities	Communication
ZOS	Motion (PIR)	On/Off	Wired
ZOSMD	Motion (Microwave), Photosensor	On/Low/Off	Wired 1-10V
ZOFD1	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
ZOFDU	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
Z221BLx	Motion (PIR), Photosensor	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via IR remote (sold separately)
Z321BLx	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
ZPC	Photosensor	On/Off	Wired
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), 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 Monitoring*, 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

# On/Off Occupancy Sensor (ZOS)

The Leviton OSFHL-CTW (or equivalent) is an end mounted PIR On/Off motion sensor. It comes with two interchangeable lenses: Low Bay (8-

25' heights), High Bay (20-40' heights), as well as an aisle mask.

• IP65 rated



# Microwave Occupancy Sensor (ZOSMD)

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 high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The ZOSMD features automatic switching or dimming based on motion. The ZOSMD

option adds step-dimming functionality - standby dimming level 10% / 20% / 30% / 50%. Max mounting height is 40 feet.

# **Programmable Dimming Sensors:**

### **ZOFDx 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

#### Z221B/Z321B Sensors

- 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.



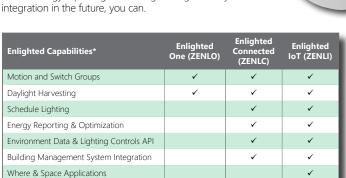
<sup>\*</sup> Additional equipment required. Contact LumenFocus representative for details



## **Enlighted**: All-in-one sensors, upgradeable systems

Enlighted's IP65-rated Ruggedized Sensor is an all-in-one unit: task tuning, high-end trimming, daylight harvesting, and occupancy/ vacancy detection. Max installation height is 50 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



Note: Additional equipment required for ZENLC and ZENLI

Location & Occupancy APIs & Beaconing

Future App & API Ready

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

www.lumenfocus.com/controls-overview

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