LumenFécus



Project:	
Location:	
Cat. #:	
Туре:	
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

Applications:

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

- Warehouse
- Manufacturing Facility
- Food Processing
- Freezer

Predicted Lifetime:

• L70 \geq 131,000 hrs (calculated)

• L90 \geq 40,000 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:

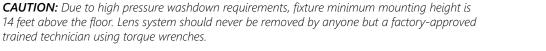
- UL 1598 listed for US and Canada, suitable for wet locations
- IP66
- NEMA 4X
- NSF
- PSI 1500
- RoHS



Warranty:

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









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Ordering Guide:

Series Version Length Output Voltage Shielding CRI/CCT Hanging Controls Cords Options WVLF 92 2 WVL F 2 VL UV CFP 930 G2 Blank Blank C6 Blank Flat Bottom Very Low 120-277 Clear Flat 90 CRI/3000K V-Hook (For Chain or No Controls 6' Single Circuit No Options Gen 2 Vaportight Polycarbonate Cable Mount) Cord 34 935 LW ZOS (Comes Standard) P(NEMA) CFPP RBS 90 CRI/3500K Plug (Specify NEMA 347V Occupancy Sensor Low C6(LVL) Heavier Gauge Rigid Mounting Beam -(On/Off) (1) configuration) MD 48 940 Clear Flat Stainless Steel C6 With Integrated F Medium 480V Polycarbonate 90 CRI/4000K ZOSMD Dimming Leads RBZ Microwave Photo/Motion Sensor Fuse HI 950 Rigid Mounting Beam -With Step-Dimming C10 Zinc Plated SDT(480V) 90 CRI/5000K (High/Low/Off) (1) 10' Single Circuit High 480V To 277V Step Cord FCM Down Transformer ZOFD1 C10(LVL) Flexible Ceiling Mount

QC

10' Quick Hang Cable Kit

OC20

20' Quick Hang Cable Kit

HUB

Hub For Pendant

Mounting

(Stem Not Included)

SC

Safety Cable

Notes

⁽¹⁾ Max mounting height 40'. See Page 4 for more details (2) "_" = lens type. Max mounting height 40'. See Page 4 for more details.

⁽³⁾ See Page 5 for more details.

⁽⁴⁾ Max mounting height 40'. See Page 5 for more details on advanced controls.

⁽⁵⁾ Max mounting height 50'. See Page 5 for more details on advanced controls.

Controls Accessories (order separately)

For Douglas Controls

BT-DMSW-U-A BT-4BTSW-U-A BT-8BTSW-U-A

Bluetooth 1 Zone Dimmer Bluetooth 4-Button Wall Station Bluetooth 8-Button Wall Station

For Enlighted Controls



WS-2-00 Enlighted Remote Control Wall Switch (for Enlighted Connected & IoT) WS-2-00-IL Enlighted Remote Control Wall Switch (for Enlighted One)

For WattStopper Controls FSIR-100

Wireless IR Programming Tool

(For Z221Lx)



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

Leviton Bluetooth-enabled Programmable Dimming/Occupancy/ C10 With Daylight Harvesting Sensor with Grouping (120-277V) ⁽¹⁾ Integrated Dimming Leads

ZOFDU Leviton Bluetooth-enabled Programmable Dimming/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 Dimming/Occupancy/ Daylight Harvesting Multi-Voltage Sensor ⁽²⁾

> ZPC Photocell

ZIFC Douglas IFC Controller With Network Capabilities⁽³⁾

ZFMS Douglas FMS Sensor with Dimming/ Occupancy/Daylight Harvesting with Newtork Capabilities (4)

ZENLO Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted One System ⁽⁵⁾

ZENLC Enlighted Ruggedized Sensor with

Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System

ZENLI

Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System (5

BAA Buy American Act Compliant

D6 6' Dual Circuit Cord

> D10 10' Dual Circuit Cord

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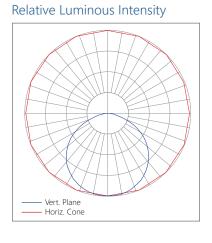
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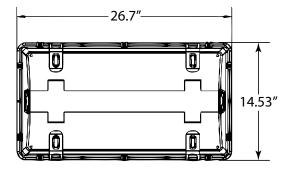
Performance Chart:

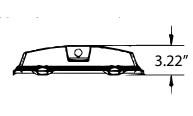
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
WVL F G2 2 VL UV CFP 9xx	55.7	7734.5	138.8	7767.1	139.4	7951.6	142.7	7951.6	142.7
WVL F G2 2 LW UV CFP 9xx	82.6	11569.0	140.1	11617.7	140.7	11893.7	144.1	11893.7	144.1
WVL F G2 2 MD UV CFP 9xx	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:

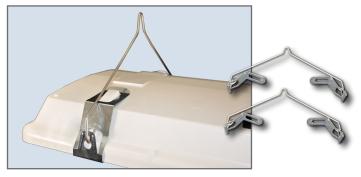


Schematic:





Mounting:



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







RBZ = zinc-plated)

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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
ZIFC	Controller, No Sensors	High/Low/Off, High-End Trim, Grouping, LLLC (Douglas Lighting Controls-Dialog)*	Wireless Bluetooth Mesh, Programmable via iOS App or Douglas Dialog Software
ZFMS	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, LLLC (Douglas Lighting Controls-Dialog)*	Wireless Bluetooth Mesh, Programmable via iOS App or Douglas Dialog Software
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

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.

LLLC = Luminaire Level Lighting Control

* Additional equipment required. Contact LumenFocus representative for details

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 capRated 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.



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Universal Douglas: Cloud-based controls FMS High bay sensor

The WVL F can be equipped with the Douglas FMS sensor, which is designed for high bay applications.

With a max sensor height up to 40 feet, the FMS is ideal for applications like warehouses and manufacturing facilities. It can be installed for on/off control or bi-level light functionality. The daylight sensor provides additional savings by dimming the lights to work with the amount of natural available daylight.

- Configuration from the floor via smartphone app
- Bluetooth mesh network is created between devices for control over a group of Douglas sensors

FMS

- Occupancy and daylight sensing
- IP65-rated
- 0-10V dimming
- 150 feet clear line of site, 50 feet through standard walls (distances may vary based on location and environment)

Intelligent Fixture Controller (IFC)

The WVL F can be equipped with the Douglas Bluetooth Intelligent Fixture Controller (IFC).

- 0-10V dimming with dim-to-off
- Bluetooth beacon for digital ceiling, IoT and location service strategies
- 150-foot clear line of sight, 50 feet through standard walls
- · May be used with dual-channel, tunable white LED drivers providing auxiliary power and dim-to-off capability
- Commissioning through Douglas Lighting Controls, Inc. app from Apple app store
- Listed for emergency control when used on dedicated emergency power bus

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 integration in the future, you can.

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Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	~	✓	✓
Daylight Harvesting	~	~	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓	√
Where & Space Applications			√
Location & Occupancy APIs & Beaconing			√
Future App & API Ready			~

Note: Additional equipment required for ZENLC and ZENLI



Douglas controls can be integrated with the CheckLight® Energy Management system. This system can help you uncover energy conversion opportunities, create conservation strategies, analyze lighting load inefficiencies, and make configuration changes from anywhere with Douglas' user-friendly interface. You can get measurements, reports, and control your system from a web-based application.

CheckLight[®] has the capability to look at different facilities within a portfolio and use data benchmarks to compare building performances.

- Find energy conservation opportunities
- Create energy saving strategiesAnalyze load inefficiencies
- Optimize energy management



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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