LUMENFOCUS



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



WVL 2F | LED Vaportight High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models except WVL 2 F MD UV
- 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

Ambient Operating Temp.: • -30°C to 35°C

Predicted L70 Lifetime:

- ≥99,000 hrs (calculated)
- >72,000 hrs (reported)
- 77% lumen maintenance @ 72,000 hrs (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
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/

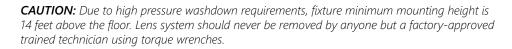


Warranty:

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









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Ordering Guide:

Series

WVL

WVL

Notes

example: WVL 2 F HI UV CFP 840 RBS C6 Length Profile **Output Voltage Shielding** CRI/CCT Hanging Controls Cords Options F 2 2 F LW UV CFP 835 Blank C6 Blank Blank 2 Flat Bottom Low 120-277 Clear Flat 80 CRI/3500K V-Hook (For Chain or No Controls 6' Single Circuit Cord No Options Polycarbonate Cable Mount) (Comes Standard) 840 MD 34 ZOS P(NEMA) CFPP RBS C6(LVL) 80 CRI/4000K Occupancy Sensor Plug (Specify NEMA Medium 347V Heavier Gauge Rigid Mounting Beam (On/Off) C6 With Integrated configuration) 48 HI 850 Clear Flat - Stainless Steel Dimming Leads F High 480V Polycarbonate 80 CRI/5000K Z221BL RBZ Wattstopper C10 Fuse Rigid Mounting Beam Programmable Photo/ 10' Single Circuit Cord SDT(480V) - Zinc Plated Motion Multi-Voltage Sensor (high/low/off)⁽¹⁾ C10(LVL) 480V To 277V Step FCM Down Transformer C10 With Integrated Z321BL_ Flexible Ceiling Mount Dimming Leads Wattstopper Bluetooth-BAA QC enabled Programmable D6 Buy American Act 10' Quick Hang Photo/Motion Multi-6' Dual Circuit Cord Compliant Cable Kit Voltage Sensor (high/low/off)⁽¹⁾ D10 QC20 10' Dual Circuit Cord ZOSMD 20' Quick Hang 0-10V Dimming Microwave Cable Kit ⁽¹⁾ "_" = lens type. See Page 3 for lens descriptions. Occupancy Sensor HUB ⁽²⁾ IFC controller - see Page 3 for more details. ZPC Hub For Pendant ⁽³⁾ Max ceiling height for Douglas FMS sensor: 40 feet. Mounting (Stem Not Photocell See Page 5 for more details on advanced controls. Included) ⁽⁴⁾ Max ceiling height for Enlighted Ruggedized sensor 50 feet. See ZIFC Page 5 for more details on advanced controls. SC Douglas IFC Controller With Network Capabilities⁽²⁾ Safety Cable Controls Accessories (order separately) ZFMS Douglas FMS Sensor with For Douglas Controls Dimming/Occupancy/ BT-DMSW-U-A Bluetooth 1 Zone Dimmer Daylight Harvesting with BT-4BTSW-U-A Bluetooth 4-Button Wall Station Newtork Capabilities⁽³⁾ BT-8BTSW-U-A Bluetooth 8-Button Wall Station ZENLO Enlighted Ruggedized For Enlighted Controls Sensor with Dimming/ Enlighted Remote Control Wall Switch WS-2-00 Occupancy/Daylight (for Enlighted Connected & IoT) Harvesting and Enlighted WS-2-00-II Enlighted Remote Control Wall Switch One System⁽⁴⁾ (for Enlighted One) ZENLC Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted Connected System⁽⁴⁾ ZENLI Enlighted Ruggedized Sensor with Dimmina/ Occupancy/Daylight Harvesting and Enlighted 0 IoT System⁽⁴⁾



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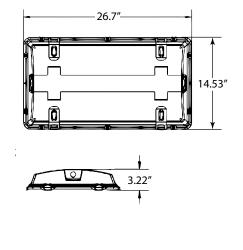
Performance Chart:

Catalog #	Lumens	Watts	LPW	ŧ.	Catalog #
WVL 2 F LW UV CFP 835	8241	63.3	130.2		WVL 2 F LW UV
WVL 2 F MD UV CFP 835	11996	102.4	117.1		WVL 2 F MD UV
WVL 2 F HI UV CFP 835	15735	126.7	124.2		WVL 2 F HI UV

Catalog #	Lumens	Watts	LPW	Catalog
WVL 2 F LW UV CFP 840	8496	63.3	134.2	WVL 2 F
WVL 2 F MD UV CFP 840	12367	102.4	120.8	WVL 2 F
WVL 2 F HI UV CFP 840	16222	126.7	128.0	WVL 2 F

Catalog #	Lumens	Watts	LPW
WVL 2 F LW UV CFP 850	8751	63.3	138.2
WVL 2 F MD UV CFP 850	12738	102.4	124.4
WVL 2 F HI UV CFP 850	16709	126.7	131.9

Schematic:





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





 The Wattstopper FSP sensor.
 The phone app interface for the Z321B.
 The FSIR-100 wireless configuration tool.

Douglas Lighting Controls, Inc.: Intelligent Fixture Controller (IFC)

The WVLF 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

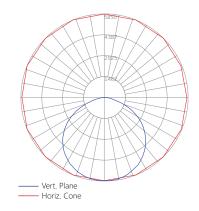


Photometric Data:

WVL 2F HI UV CFP 850		e Data (cd/so		Auerogo
Test No.: LLIA000703-001-R02	Angle In	Average	Average	Average
	Degrees	0-Deg	45-Deg	90-Deg
Luminaire Lumens: 16,709 lm	45	23053	23163	23274
Luminaire Watts: 126.7W	55	22248	22189	22504
Efficacy: 131.9 LPW	65	19846	19656	19947
Spacing Criterion (0-180): 1.30	75	13710	13175	13643
Spacing Criterion (90-270): 1.30	85	2778	2196	1733

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

RC		80				70				50			30	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26



Zonal Lumen Summary								
Zone	Lumens	%Fixt						
0-20	2148.17	12.90						
0-30	4597.11	27.50						
0-40	7598.39	45.50						
0-60	13607.81	81.40						
0-80	16606.43	99.40						
0-90	16708.90	100.00						
90-120	0.00	0.00						
90-130	0.00	0.00						
90-150	0.00	0.00						
90-180	0.00	0.00						
0-180	16708.90	100.00						

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



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Douglas Lighting Controls, Inc.: High bay sensors

The WVLF 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 bilevel 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
- 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)

Enlighted: All-in-one sensors, upgradeable systems

Enlighted's IP65-rated Ruggedized Sensor is an all-inone 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.

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

CheckLight[®] Energy Management System

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 strategies
- Analyze 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 mapsAnalyze 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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