



Project:	
Location:	
Cat. #:	
Type:	
турс	_
Quantity:	



WVL G2 2 | LED Vaportight High Bay

Features:

- High performance LED technology
- 90+ CRI standard
- 0-10V dimming drivers standard on all models
- DALI drivers available
- Field replaceable LED boards & drivers
- Multiple hanging options, including surface, chain, aircraft cable, and pendant for easy installation
- Durable materials and craftsmanship allows the WVL 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
- Gymnasium
- Parking Garage
- Car Wash
- 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)
- L80 \geq 83,000 hrs (calculated)
- L90 \geq 40,000 hrs (reported)
- 85% lumen maintenance @ 60,000 hrs (based on LM-80, TM-21 and in-situ laboratory testing)

Construction:

- UL 5VA fiberglass housing (will not melt
- Impact resistant acrylic and UV stabilized polycarbonate lenses
- Pre-painted cold rolled steel board trays
- Acetal copolymer secure locking plastic latches (Stainless steel lens clips or stainless steel captive latches optional)
- Stainless steel mounting hardware

Certifications:

- UL 1598 listed for US and Canada. suitable for wet locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/
- IP65
- IP66
- IP67 (optional)
- IP69
- NEMA 4X
- NSF
- PSI 1500
- RoHS



















Warranty:

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







Ambient Operating Temp.:

Output	Surface Mount	Suspended
VL	-30°C to 40°C	-30°C to 40°C
LW	-30°C to 40°C	-30°C to 40°C
MD	-30°C to 35°C	-30°C to 40°C
HI	-30°C to 30°C	-30°C to 35°C





Ordering Guide:

example: WVI_G2_2_HI_I_IV_FA_940_FCM

	example: WVL G	2 2 HI UV FA 940 FCM						
Series	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls (1)	Options
WVL G2	2							
WVL G2 Gen 2	2 2 2'	VL Very Low LW Low MD Medium HI High	UV 120-277 34 347V 48 480V	CP Clear Polycarbonate CA Clear Acrylic FA Frosted Acrylic	930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K 950 90 CRI/5000K	Blank V-Hook (For Chain or Cable Mount) RBS Rigid Mounting Beam - Stainless Steel RBZ Rigid Mounting Beam - Zinc Plated FCM Flexible Ceiling Mount QC 10' Quick Hang Cable Kit QC20 20' Quick Hang Cable Kit HUB Hub For Pendant Mounting (Stem Not Included)	Blank No Controls ZOS Occupancy Sensor (On/Off) ZOSMD Leviton Microwave 0-10V Multi-Level Occupancy Sensor with Photocell Z221Bxx (2) Wattstopper Programmable 0-10V Multi-Level Occupancy Sensor with Photocell, Task Tuning Z321Bxx (2) Wattstopper Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning ZOFD1 Leviton Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning	Blank No Options C6 6' Single Circuit Cord C6(LVL) C6 With Integrated Dimming Leads C10 10' Single Circuit Cord C10(LVL) C10 With Integrated Dimming Leads D6 6' Dual Circuit Cord D10 10' Dual Circuit Cord P(NEMA) Plug (Specify NEMA configuration)
							ZOFDU Leviton Bluetooth-enabled	EM6 6.5W Emergency Pack (3.5)

Notes



Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling

ZESMC

Philips EasySense Bluetooth-enabled Programmable DALI Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling

ZLTS

LiteTrace Bluetooth-enabled Programmable 0-10V Dimming Occupancy Sensor with Daylight Harvesting, Task Tuning, Grouping, Scheduling, and Advanced Networking & IoT Capabilities

ZLTC

LiteTrace Bluetooth-enabled Programmable 0-10V fixture controller with Task Tuning, Grouping, Scheduling, and Advanced Networking & IoT Capabilities

EM10

10W Emergency Pack (3,5)

EM14

14W Emergency Pack (3,5)

EM10C

10W Cold Temp. Emergency Pack (4,5)

EM16C

16W Cold Temp. Emergency Pack (4,5)

SCL

Stainless Steel Captive Latches

SSC

Stainless Steel Lens Clips

Lens Tether

F

Fuse

IP67

IP67 Rating

SDT(480V) 480V To 277V Step Down Transformer

LVL

0-10V Dimming Leads for Easy Field Access

BAA

Buy American Act Compliant



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

^{(2)&#}x27;xx' = select lens type based on mounting height and coverage area. See 'Control Summary' on Page 4 for more details.

^{(3) 120-277}V / 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 G2 2 HI UV FA 950 EM10C \rightarrow 145.0 LPW x 10W = 1,450 lm



Controls Accessories (order separately)

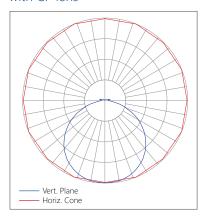
Accessory Code	Description	Control Compatibility	Additional Info
FSIR-100	Wireless IR Configuration Tool	Z221Bxx	pg. 5
ZBT-S1AWH	Single Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	pg. 5
ZBT-S2AWH	Dual Rocker ZigBee Wireless Wall Switch (self powered)	ZESMC	pg. 5
WP1013	3-Button Bluetooth 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:

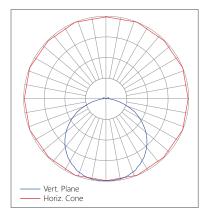
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
WVL G2 2 VL UV FA 9xx	56.0	7976.1	142.4	8009.7	143.0	8200.0	146.4	8200.0	146.4
WVL G2 2 LW UV FA 9xx	84.0	11898.9	141.7	11949.0	142.3	12232.8	145.7	12232.8	145.7
WVL G2 2 MD UV FA 9xx	112.5	15821.5	140.6	15888.2	141.2	16265.6	144.6	16265.6	144.6
WVL G2 2 HI UV FA 9xx	138.5	19527.9	141.0	19610.3	141.6	20076.0	145.0	20076.0	145.0
WVL G2 2 VL UV CA 9xx	56.0	8109.1	144.8	8143.2	145.4	8336.7	148.9	8336.7	148.9
WVL G2 2 LW UV CA 9xx	84.0	12097.2	144.1	12148.2	144.7	12436.7	148.1	12436.7	148.1
WVL G2 2 MD UV CA 9xx	112.5	16085.3	143.0	16153.1	143.6	16536.7	147.0	16536.7	147.0
WVL G2 2 HI UV CA 9xx	138.5	19853.5	143.3	19937.2	143.9	20410.7	147.4	20410.7	147.4
WVL G2 2 VL UV CP 9xx	56.0	7887.5	140.8	7920.7	141.4	8108.9	144.8	8108.9	144.8
WVL G2 2 LW UV CP 9xx	84.0	11766.7	140.1	11816.3	140.7	12096.9	144.1	12096.9	144.1
WVL G2 2 MD UV CP 9xx	112.5	15645.8	139.0	15711.7	139.6	16084.9	143.0	16084.9	143.0
WVL G2 2 HI UV CP 9xx	138.5	19311.0	139.4	19392.4	140.0	19853.0	143.3	19853.0	143.3

Photometric Data:

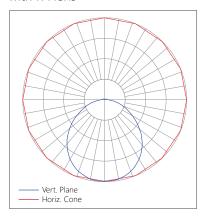
Relative Luminous Intensity with CP lens



Relative Luminous Intensity with CA lens



Relative Luminous Intensity with FA lens









The WVL 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	×	х	On Device	pg. 4
ZOSMD	On/Low/Off	Hold Off	Microwave	120-277V	0-10V	40′	N/A	X	X	On Device	pg. 4
Z221B <i>xx</i>	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
Z321B <i>xx</i>	High/Low/Off	Daylight Harvesting	PIR	120-347V, 480V	0-10V	L2 L3 L7 8' 20' 40' (select one)	N/A	Х	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	×	Х	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.

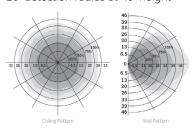
- Two interchangeable lenses included, as well as an aisle mask
 - Low Bay: 8' to 25' mounting height
 - High Bay: 20' to 40' mounting height
- IP65 rated



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'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.



- 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

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 & Beaconing			✓
Future App & API Ready			✓

^{*} additional hardware and software required.



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





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





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)



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

Room Controllers



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)



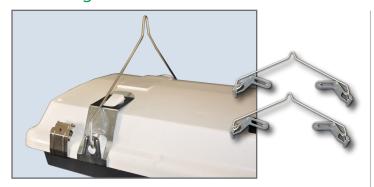
Line Voltage

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





Mounting:



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



FCM Flexible Ceiling Mount



Schematic:

