# VG1 LED
## Voltaire Architectural Surface/Garage Light

**Williams**®

13-1/2″
5-7/8″
3″ minimum clearance
13″

Maximum Weight: 25 lbs

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT · DLC LISTED · DARK-SKY APPROVED · IP66 Rated

## FEATURES

- Rugged and durable housing with IP66 rating
- Quick and easy installation with the hinged two-piece enclosure
- Effectively illuminates any garage, canopy and exterior surface or pendant mount application
- Achieve multi-level control with optional motion and daylight sensors
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING – Two-piece hinged die-cast aluminum enclosure.
- THERMAL MANAGEMENT – Integral die-cast aluminum heat sink and LED module provide passive thermal management. Rated ambient operating temperature -30ºC to 50ºC (L30), -30ºC to 40ºC (L65, L100).
- OPTICAL SYSTEM – Precision, injection-molded, refractive optics available in standard IES distributions. Clear tempered glass lens.
- LED MODULE – ANSI 3000K, 4000K, or 5000K CCT, minimum 70 CRI LEDs.
- LED DRIVER – Class 1 constant-current driver, 0-10V dimming.
- ELECTRICAL – 120-277, 347, and 480 VAC input range; 50-60Hz; power factor >.90; THD <20% at full load. FCC Class A compliant. 10kA/10kV surge protection standard. Quick-disconnect wiring provided. L70 >60,000 hours per IES TM-21. Conduit/power entry must be sealed to prevent moisture or water intrusion.
- FINISH – Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability.
- MOUNTING – Surface or pendant mount. Maximum weight: 25 lbs.
- LISTINGS –
  - cCSAus certified as luminaire suitable for wet locations. Suitable for dry or damp locations when specified with PM mounting configuration.
  - IP66 rated.
  - Meets the American National Standard for Roadway Lighting Equipment – Luminaire Vibration (ANSI C136.31-2001), CT direct surface mounting configuration only.
  - IDA Dark-Sky approved.
  - RoHS compliant.
  - BUG classified per IES TM-15-11.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

## ORDERING EXAMPLE: VG1 - L110/740 - T5 - SM - DBZ - OPTIONS - CONTROL/DIM - UNV

| SERIES | LUMENS [1] | | CRI | | CCT | | DISTRIBUTION [2] | |
|---|---|---|---|---|---|---|---|---|
| VG1 | L30 | 3,000lm | 7 | 70 | 30 | 3000K | T3 | Type III |
| | L65 | 6,500lm | 8 | 80 [3] | 40 | 4000K | T5 | Type V |
| | L110 | 11,000lm | | | 50 | 5000K | TFL | Type Flood |

### MOUNTING CONFIGURATION [4]

| | |
|---|---|
| SM | Surface mount to 4″ maximum J-box (by others) [6] |
| PM | Rigid pendant mount (pendant specified separately, see options) with counter weights included |
| CT | Closed top for direct surface mounting [7] |

### FINISH OPTIONS [5]

| | |
|---|---|
| BLK | Black (RAL #9004) |
| DBZ | Dark bronze |
| DBR | Medium bronze |
| GRAY | Standard gray |
| GRN | Green (RAL #6005) |
| SLV | Satin aluminum (RAL #9006) |
| WHT | White (RAL #9003) |

### OPTIONS [8]

| | |
|---|---|
| EM/6WC | 6-watt emergency, low temperature battery [10] |
| EM/10CEC | 10-watt emergency CEC qualified battery [11] |
| WG | Wireguard, chrome, [12] |
| WG-VG | Wireguard kit, chrome, field-installed, (4) 10-24 screws included |
| PMVG__-___ | Rigid pendant stem and canopy kit |
| SF | Single fuse [13] |
| DF | Double fuse [14] |

### CONTROL [9]

*See page 5 for ADDITIONAL CONTROL OPTIONS.*

| | |
|---|---|
| – | None |
| AVI-IFAC-OA | Avi-on wireless fixture control with outdoor antenna |
| AVI-IFAC-OA-PIR | Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount with outdoor antenna |

### DRIVER

| | |
|---|---|
| DIM | Driver with external dimming wires prewired for 0-10V low voltage applications |
| DRV | Driver without external dimming wires prewired for non-dimming applications |

### VOLTAGE

| | |
|---|---|
| 120 | 120V |
| 208 | 208V |
| 240 | 240V |
| 277 | 277V |
| UNV | 120-277V |
| 347 | 347V [15] |
| 480 | 480V [16] |

### NOTES

1. Lumen output based on 70 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
2. See page 2 for DISTRIBUTION DETAILS.
3. Extended lead times may apply. Consult factory for availability.
4. See page 3 for MOUNTING DETAILS.
5. See page 2 for FINISH OPTIONS.
6. Two 1/2″ NPS threaded and plugged conduit side entry points provided.
7. Two 1/2″ NPS threaded and plugged conduit side entry points provided.
8. See page 2 for OPTIONS DETAILS.
9. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR PLACEMENT DETAILS.
10. Not available with L110 lumen package; 38°C maximum ambient temperature; 120-277V only.
11. Not available with L110 lumen package; 40°C maximum ambient temperature; 120-277V only. Not available with DA Driver.
12. Factory-installed.
13. 120V, 277V, or 347V only; must specify voltage.
14. 208V, 240V, or 480V only; must specify voltage.
15. Includes stepdown transformer. Not available with EM batteries or DA Driver.
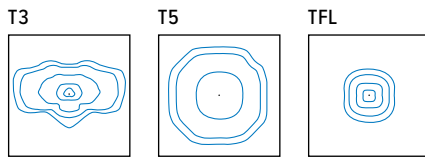16. Includes stepdown transformer. Not available with EM batteries or DA Driver.

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## FIXTURE PERFORMANCE DATA

| | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (LM/W) | BUG RATING |
|---|---|---|---|---|---|
| L30 | Type III | 3780 | 36 | 105 | B2-U0-G2 |
| | Type V | 3566 | | 99 | B3-U0-G2 |
| | Type FL | 4009 | | 111 | B3-U0-G1 |
| L65 | Type III | 7560 | 69 | 110 | B2-U0-G2 |
| | Type V | 7131 | | 103 | B3-U0-G2 |
| | Type FL | 8018 | | 116 | B3-U0-G1 |
| L110 | Type III | 11340 | 104 | 109 | B2-U0-G2 |
| | Type V | 10697 | | 103 | B3-U0-G2 |
| | Type FL | 12027 | | 116 | B3-U0-G1 |

### MULTIPLIER TABLE

| | COLOR TEMPERATURE | |
|---|---|---|
| | CCT | CONVERSION FACTOR |
| 70 CRI | 3000K | 0.95 |
| | 4000K | 1.00 |
| | 5000K | 1.03 |
| 80 CRI | 3000K | 0.86 |
| | 4000K | 0.91 |
| | 5000K | 0.94 |

- Photometrics tested in accordance with IESNA LM-79. Results based on 70 CRI/4000K CCT, 25°C ambient temperature and average wattage for 120V through 277 input.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
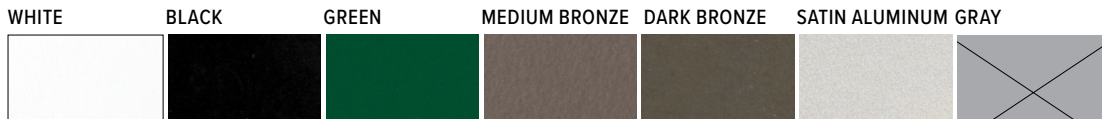- Use multiplier table to calculate additional options.

## DISTRIBUTION DETAILS

T3

T5

TFL

## CROSS SECTIONS

FRONT VIEW

13-1/2″
5-7/8″
3″ minimum clearance
13″

BACK VIEW

7″
4-5/8″
16″

## FINISH OPTIONS

WHITE   BLACK   GREEN   MEDIUM BRONZE   DARK BRONZE   SATIN ALUMINUM   GRAY
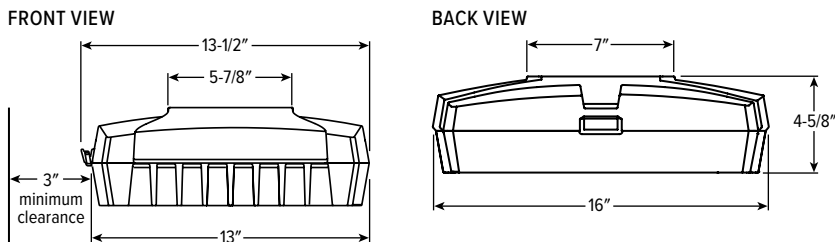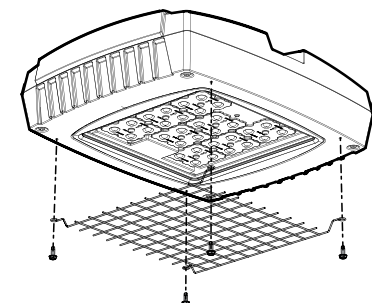
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.
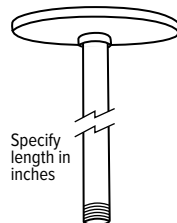
## OPTIONS DETAILS

**WG-VG**

Field-installed wireguard kit provided with:
- 10-3/8″ x 11-1/2″ chrome wireguard
- (4) 10-24 screws

(Fixture Not Included)

**PMVG**

Specify length in inches

Rigid pendant stem and canopy kit provided with:
- 1/2″ IP stem, specify length
- 1/2″ IP crossbar with ground screw
- ø5″ canopy, 7/8″ deep
- (1) 1/2″ IP locknuts
- 1/2″ bushing/reducer

Notes:
- 4″ maximum octagon J-box by others.
- Suitable for dry or damp locations.

| EXAMPLE: PMVG12 - DBR | | |
|---|---|---|
| SERIES | LENGTH | FINISH OPTIONS |
| PMVG | Specify length in inches, 6″ minimum, 96″ maximum. Example: **20** = 20″ | **BLK** Black (RAL #9004) <br> **DBZ** Dark bronze <br> **DBR** Medium bronze <br> **GRAY** Standard gray <br> **GRN** Green (RAL #6005) <br> **SLV** Satin aluminum (RAL #9006) <br> **WHT** White (RAL #9003) <br><br> See custom color options at hew.com/custom-color/VG1 |

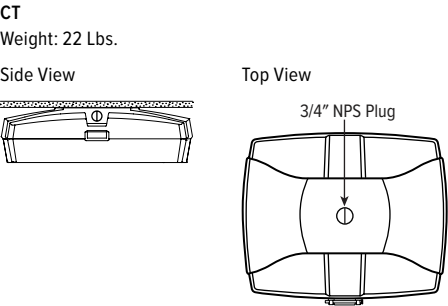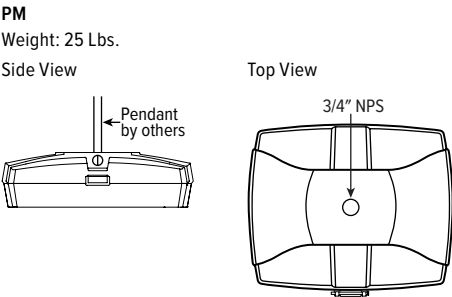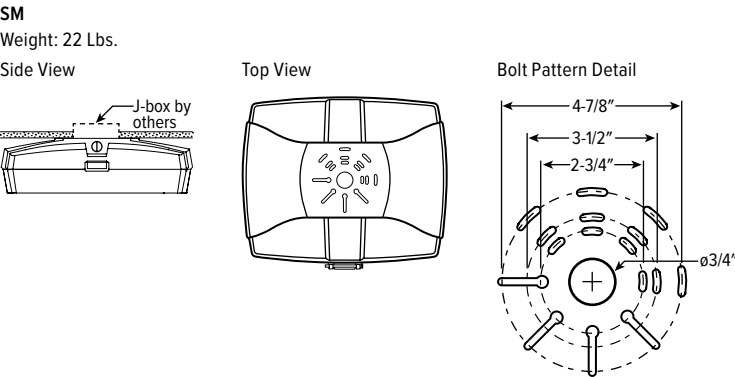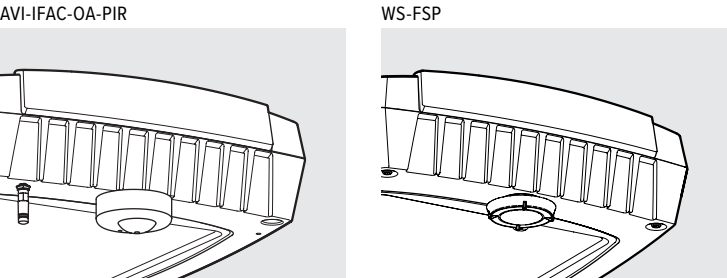H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA

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# VG1

LED
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## MOUNTING DETAILS

**SM**
Weight: 22 Lbs.

Side View

J-box by others

Top View

Bolt Pattern Detail

4-7/8″
3-1/2″
2-3/4″
ø3/4″

**PM**
Weight: 25 Lbs.

Side View

Pendant by others

Top View

3/4″ NPS

**CT**
Weight: 22 Lbs.

Side View

Top View

3/4″ NPS Plug

## SENSOR PLACEMENT DETAILS

AVI-IFAC-OA-PIR

WS-FSP

SEE NEXT PAGE FOR CONTROL DETAILS.

# VG1 LED
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## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

#### Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.

Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

### ACCESSORIES

| NETWORK | |
|---|---|
| **AVI-RAB-LTE** | Remote access bridge |
| **AVI-NTM** | Network time manager with battery backup |

For load controllers and additional accessory info, see hew.com/avi-on

### SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Remote Access Bridge

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## AVI-IFAC-OA-PIR  Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount with outdoor antenna.

| SPECIFICATIONS | |
|---|---|
| **TYPE** | PIR Motion + Daylight |
| **MOUNTING HEIGHT** | 8′ – 45′ |
| **LENS** | Single lens detects high and low bay motion. |
| **DETECTION ANGLE** | 360° |
| **TEMPERATURE RANGE** | -30° to 70°C |
| **RELATIVE HUMIDITY** | 90 to 95% at 30°C |
| **COMMISSIONING** | App (iOS or Android) |
| **SYSTEM REQUIREMENTS** | Avi-On wireless fixture controls plus desktop and mobile apps |
| **MANUFACTURER** | Avi-On |

### SENSOR COVERAGE PATTERNS

Large motion
45′ height: ø68′ coverage
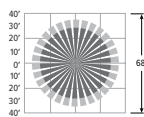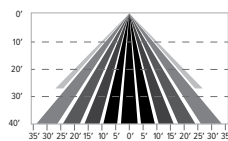
Small motion
20′ height: ø28′ coverage

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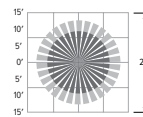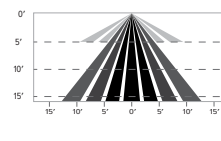
## ADDITIONAL CONTROL OPTIONS

**OCCWS-FSP-311-L_-120/277**  Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
**OCCWS-FSP-211-L_-120/277**  Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.
**FSIR-100**  Remote controller for 211 sensor. Please specify quantity required per project. Ordered and shipped separately.
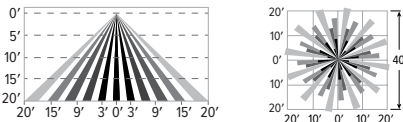
### SPECIFICATIONS

| | |
|---|---|
| **TYPE** | PIR Motion + Daylight |
| **MOUNTING HEIGHT** | 8′ – 40′ |
| **DETECTION ANGLE** | 360° |
| **TEMPERATURE RANGE** | -40° to 75°C |
| **COMMISSIONING** | 311 Sensor: App (iOS or Android)<br>211 Sensor: FSIR-100 Remote |

### SENSOR COVERAGE PATTERNS
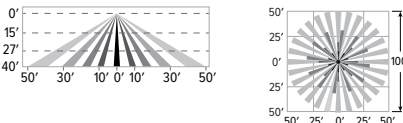
**L2**  8′ height: ø48′ coverage
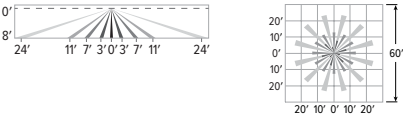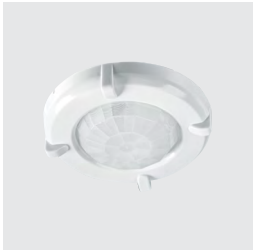


**L3**  20′ height: ø40′ coverage



**L7**  40′ height: ø100′ coverage



### SENSOR DETAIL



Dimensions
L2/L3: ø2-3/8″ | L7: ø3-1/4″

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