# GL LED
## Low-Profile Industrial

**Williams**®



3-13/16″

14-3/16″

CATALOG #: _____

TYPE: _____

PROJECT: _____

*BUY AMERICAN ACT COMPLIANT*

## FEATURES

- Aluminum housing for maximum heat dissipation
- Quick-wire access plate for easy installation
- Narrow distribution and uplight options provide tailored performance
- Shallow fixture depth of less than 4″ allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment
- Uplight modules available to illuminate dark ceilings
- High and low ambient options for extreme temperatures
- Piano hinge and steel door frame options
- Optional wireguard provides added protection
- High-performance up to 157 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- **HOUSING** – Die-formed aluminum housing.
- **FINISH** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- **ELECTRICAL** – High-quality mid-power LED boards. See fixture performance data for lumen maintenance. 40°C maximum ambient operating temperature standard. 60°C max when specified with HA option. 25°C max when specified with alternate drivers. -40°C minimum operating temperature when specified with LA40 option.
- **MOUNTING** – Suspended. Indoor applications only.
- **LISTINGS** –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- **WARRANTY** – 5-year limited warranty, see www.hew.com/warranty.

**ORDERING EXAMPLE:** GL - 4 - L200/840 - OPTIONS - CONTROL/DIM - UNV

### ORDERING INFO

| SERIES | LENGTH | LUMENS [1] | | | | CRI | CCT |
|---|---|---|---|---|---|---|---|
| GL | 4 4′ | **4′** | | **8′** | | 8 80 | 30 3000K |
| | 8 8′ | L150 | 15,000lm | L300 | 30,000lm | 9 90 [2] | 35 3500K |
| | | L200 | 20,000lm | L400 | 40,000lm | | 40 4000K |
| | | L300 | 30,000lm | L600 | 60,000lm | | 50 5000K |
| | | L400 | 40,000lm | L800 | 80,000lm | | |

### OPTIONS [3]

| | | | |
|---|---|---|---|
| EM/10W/BMTD | Back-mounted 10-watt emergency battery [4] | WGC11 | 11-gauge wireguard, white powder coated, field-installed [15] |
| EM/14W/BMTD | Back-mounted 14-watt emergency battery [5] | WGC11 F&I | 11-gauge wireguard, white powder coated, factory-installed [16] |
| (L__) | Additional lower lumen packages available. [6] Example: 18,000 nominal lumens = GL-4-L200/840-(L180) | VBY | (2) Y-hangers |
| | | VBY-2 | (2) Y-hangers with 2′ chains |
| HA | High ambient temperature, 60°C [7] | GC2/Y18/5 | (2) Cable suspension kits, 5′ length |
| LA40 | -40°C minimum operating temperature | GC2/Y18/10 | (2) Cable suspension kits, 10′ length |
| UP | Uplight module, back-mounted [8] | HUB MT 3/4″ | Cast iron hub and junction box for single 3/4″ pendant mount [17] |
| ND | Narrow distribution [9] | HUB/HOOK MT | Cast iron hub with mounting hook [18] |
| PHSCHA118 | Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118″ thick [10] | HOOK/CABLE | Hook and cable mounting kit, 10′ |
| | | 3SB | (2) 3″ spacer brackets |
| PHSAF118 | Piano hinge steel door frame, non-prismatic diffuse acrylic, .118″ thick [11] | 6CPI/L5-15P/TWLK | 6′ cord and NEMA twistlock 15 AMP plug, 120V [19] |
| | | 6CPI/L7-15P/TWLK | 6′ cord and NEMA twistlock 15 AMP plug, 277V [20] |
| SCHA118 | Steel door frame, clear, high-temperature, non-prismatic acrylic, .118″ thick [12] | S7238/B | 72″ cord, 3-conductor, No. 18 AWG, black [21] |
| | | S7258/B | 72″ cord, 5-conductor, No. 18 AWG, black [22] |
| SAF118 | Steel door frame, non-prismatic diffuse acrylic, .118″ thick [13] | SP1 | 10kV surge protection, 120 or 277V |
| | | SP2 | 10kV surge protection, 208 or 240V |
| SAF12125 | Steel door frame, frosted acrylic #12, .125″ thick [14] | SP3 | 10kV surge protection, 347 or 480V |

### CONTROLS [23]

*See page 6 for ADDITIONAL CONTROL OPTIONS.*

| | |
|---|---|
| – | None |
| AVI-LVFA | Avi-on wireless fixture control [25] |
| AVI-LVFA-PIR-ELB | Avi-on wireless fixture control with PIR motion and daylight sensor, end mount [26] |

### DRIVER [24]

| | |
|---|---|
| DIM | Driver with external 0-10V dimming wires |
| DRV | Driver without external dimming wires |
| DA | Driver with 12V auxiliary power, without external dimming wires [27] |

### VOLTAGE

| | |
|---|---|
| 120 | 120V |
| 208 | 208V |
| 240 | 240V |
| 277 | 277V |
| UNV | 120-277V |
| 347 | 347V [28] |
| 480 | 480V with stepdown transformer [29] |

### NOTES

1. Lumen output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see options.
2. Extended lead times may apply. Consult factory for availability.
3. See page 4 for MOUNTING DETAILS.
4. Increases fixture height. See page 3 for OPTIONS DETAILS.
5. Increases fixture height. See page 3 for OPTIONS DETAILS.
6. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7. L200 lumen package max for 4′, L400 for 8′; not available with EM, ND, or door frame options.
8. Nominal 1,300 lumens module output; 15W; increases fixture height. See page 3 for OPTIONS DETAILS.
9. Not available with lens options or 4′ L400 or 8′ L800 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA. Not available with HA option.
10. Not available with 4′ L400 or 8′ L800 lumen packages.
11. Not available with 4′ L400 or 8′ L800 lumen packages.
12. Not available with 4′ L400 or 8′ L800 lumen packages.
13. Not available with 4′ L400 or 8′ L800 lumen packages.
14. Not available with 4′ L400 or 8′ L800 lumen packages.
15. Shipped separately.
16. Not for use with door frame accessories.
17. Shipped separately.
18. Shipped separately.
19. DRV only.
20. DRV only.
21. DRV only.
22. DIM only.
23. See page 4 for SENSOR PLACEMENT DETAILS. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
24. Consult factory for additional driver options.
25. DA Driver only.
26. DA Driver only.
27. Avi-on Control only.
28. Not available with EM batteries or DA driver.
29. Not available with EM batteries or DA driver.

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## FIXTURE PERFORMANCE DATA

| | LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | NARROW DISTRIBUTION (ND) OPTION DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | LUMEN MAINTENANCE [1] L70 | L80 | L85 | L90 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **4'** | L150 | 15049 | 96 | 157 | 14297 | 97 | 147 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L200 | 20095 | 133 | 151 | 19090 | 131 | 146 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L300 | 30139 | 200 | 151 | 28632 | 195 | 147 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L400 | 40185 | 267 | 151 | – | – | – | >72,000 | >72,000 | >63,000 | >42,000 |
| **8'** | L300 | 30098 | 192 | 157 | 28593 | 194 | 147 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L400 | 40190 | 266 | 151 | 38181 | 262 | 146 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L600 | 60278 | 400 | 151 | 57264 | 390 | 147 | >72,000 | >72,000 | >63,000 | >42,000 |
| | L800 | 80370 | 534 | 151 | – | – | – | >72,000 | >72,000 | >63,000 | >42,000 |

**1** Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
**2** Photometrics in process for SAF12125 shielding. Consult factory.
▪ Photometrics tested in accordance with IESNA LM-79. Results based on no shielding, 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
▪ To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
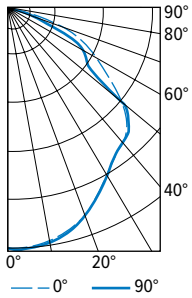▪ Use multiplier tables to calculate additional options.

## MULTIPLIER TABLES

### COLOR TEMPERATURE

| | CCT | CONVERSION FACTOR |
|---|---|---|
| **80 CRI** | 3000K | 0.96 |
| | 3500K | 0.97 |
| | 4000K | 1.00 |
| | 5000K | 1.03 |
| **90 CRI** | 3000K | 0.79 |
| | 3500K | 0.80 |
| | 4000K | 0.83 |
| | 5000K | 0.86 |

### SHIELDING

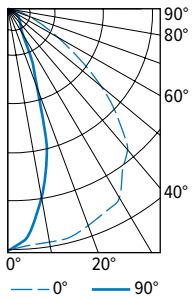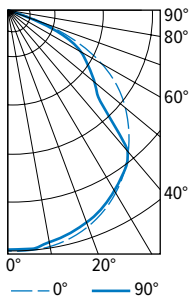| CATALOG NUMBER | CONVERSION FACTOR |
|---|---|
| – | 1.00 |
| SCHA118 | 0.93 |
| SAF118 | 0.90 |
| SAF12125 [2] | 0.83 |

## PHOTOMETRY

**GL-4-L150/840-DIM-UNV** Total Luminaire Output: 15049 lumens; 96 Watts | Efficacy: 157 lm/W | 80 CRI; 4000K CCT

| VERTICAL ANGLE | HORIZONTAL ANGLE 0º | 45º | 90º | ZONAL LUMENS |
|---|---|---|---|---|
| 0 | 5474 | 5474 | 5474 | |
| 5 | 5395 | 5395 | 5398 | 516 |
| 15 | 5277 | 5299 | 5299 | 1489 |
| 25 | 4782 | 4806 | 4787 | 2213 |
| 35 | 4210 | 4217 | 4227 | 2664 |
| 45 | 3869 | 3877 | 3920 | 2956 |
| 55 | 2897 | 3023 | 2279 | 2508 |
| 65 | 2008 | 1608 | 1637 | 1759 |
| 75 | 942 | 628 | 580 | 788 |
| 85 | 174 | 113 | 128 | 155 |
| 90 | 0 | 0 | 0 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 30 | 4218 | 28 |
| 0 - 40 | 6882 | 46 |
| 0 - 60 | 12347 | 82 |
| 0 - 90 | 15049 | 100 |
| 0 - 180 | 15049 | 100 |

**GL-4-L150/840-ND-DIM-UNV** Total Luminaire Output: 14297 lumens; 97 Watts | Efficacy: 147 lm/W | 80 CRI; 4000K CCT

| VERTICAL ANGLE | HORIZONTAL ANGLE 0º | 45º | 90º | ZONAL LUMENS |
|---|---|---|---|---|
| 0 | 14419 | 14419 | 14419 | |
| 5 | 14097 | 13760 | 13467 | 1281 |
| 15 | 13795 | 10851 | 8889 | 3051 |
| 25 | 13394 | 5994 | 3476 | 3264 |
| 35 | 11939 | 2152 | 1279 | 2567 |
| 45 | 9650 | 1030 | 761 | 1863 |
| 55 | 5364 | 620 | 464 | 1203 |
| 65 | 2392 | 346 | 352 | 675 |
| 75 | 717 | 234 | 195 | 323 |
| 85 | 93 | 29 | 29 | 71 |
| 90 | 0 | 0 | 0 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 30 | 7596 | 53 |
| 0 - 40 | 10163 | 71 |
| 0 - 60 | 13228 | 93 |
| 0 - 90 | 14297 | 100 |
| 0 - 180 | 14297 | 100 |

**GL-4-L150/840-SCHA118-DIM-UNV** Total Luminaire Output: 13920 lumens; 96 Watts | Efficacy: 145 lm/W | 80 CRI; 4000K CCT
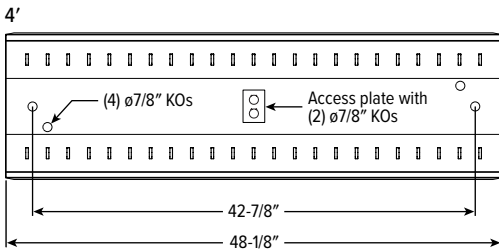
| VERTICAL ANGLE | HORIZONTAL ANGLE 0º | 45º | 90º | ZONAL LUMENS |
|---|---|---|---|---|
| 0 | 5217 | 5217 | 5217 | |
| 5 | 5275 | 5177 | 5162 | 494 |
| 15 | 5139 | 5063 | 5041 | 1431 |
| 25 | 4874 | 4788 | 4776 | 2210 |
| 35 | 4404 | 4361 | 4354 | 2721 |
| 45 | 3763 | 3686 | 2814 | 2714 |
| 55 | 2896 | 2123 | 2151 | 2198 |
| 65 | 1789 | 1387 | 1357 | 1503 |
| 75 | 711 | 479 | 353 | 569 |
| 85 | 48 | 49 | 41 | 78 |
| 90 | 0 | 0 | 0 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 30 | 4136 | 30 |
| 0 - 40 | 6857 | 49 |
| 0 - 60 | 11770 | 85 |
| 0 - 90 | 13920 | 100 |
| 0 - 180 | 13920 | 100 |

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# GL LED Low-Profile Industrial

**GL-4-L150/840-SAF118-DIM-UNV** Total Luminaire Output: 12910 lumens; 96 Watts| Efficacy: 134 lm/W | 80 CRI; 4000K CCT
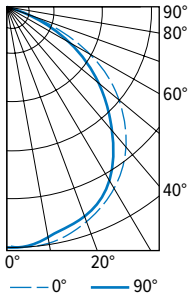
| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|---|---|---|---|---|---|
| | | 0° | 45° | 90° | |
| | 0 | 4985 | 4985 | 4985 | |
| | 5 | 5061 | 4956 | 4922 | 473 |
| | 15 | 4937 | 4839 | 4796 | 1367 |
| | 25 | 4630 | 4553 | 4502 | 2096 |
| | 35 | 4155 | 4095 | 3899 | 2525 |
| | 45 | 3457 | 3294 | 2868 | 2487 |
| | 55 | 2535 | 2168 | 2005 | 2006 |
| | 65 | 1471 | 1221 | 1171 | 1278 |
| | 75 | 621 | 509 | 507 | 572 |
| | 85 | 75 | 69 | 74 | 107 |
| | 90 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---|---|---|---|
| | 0 - 30 | 3935 | 31 |
| | 0 - 40 | 6460 | 50 |
| | 0 - 60 | 10953 | 85 |
| | 0 - 90 | 12910 | 100 |
| | 0 - 180 | 12910 | 100 |

— — 0°    —— 90°

## FIXTURE DETAILS

### BACKVIEW

**4'**

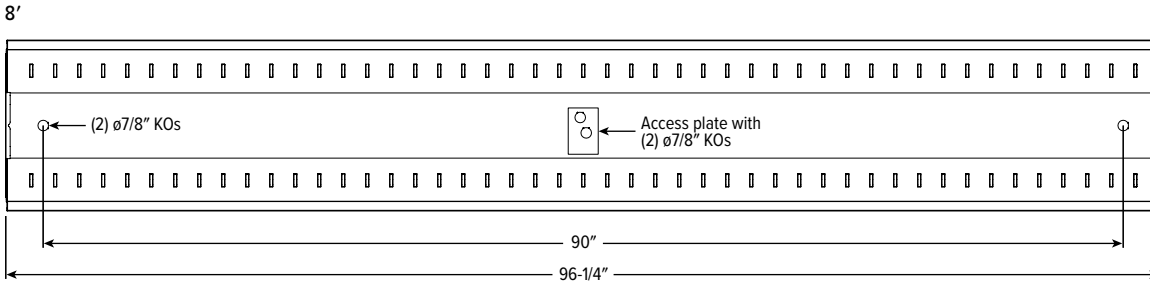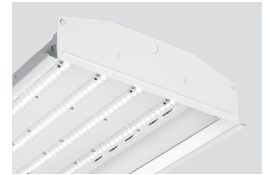(4) ø7/8" KOs

Access plate with (2) ø7/8" KOs

42-7/8"

48-1/8"

**4' L150, L200 | 8' L300, L400**

**4' L300 | 8' L600**

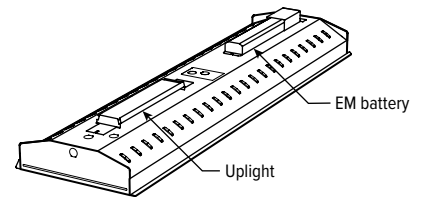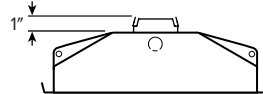**4' L400 | 8' L800**

**8'**

(2) ø7/8" KOs

Access plate with (2) ø7/8" KOs

90"

96-1/4"
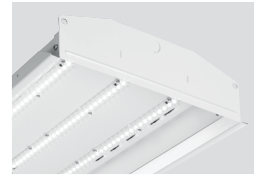
## OPTIONS DETAILS

### EM BATTERY

A

Back-mounted battery box
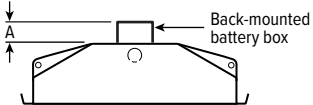
| EM BATTERY | DIMENSION A |
|---|---|
| EM/14W/BMTD | 1-5/16" |
| EM/10W/BMTD | 1-3/16" |

### UPLIGHT

1"

EM battery

Uplight

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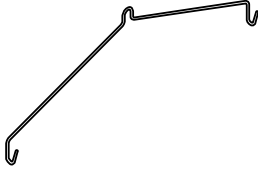
High Bay
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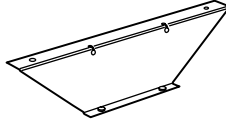
# GL LED Low-Profile Industrial
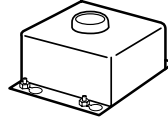
## MOUNTING DETAILS
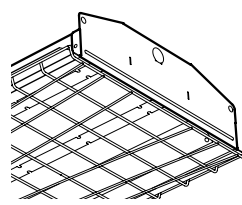
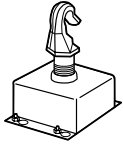GC2/Y18/_    VBY | VBY-2         3SB SPACER BRACKET      HUB MT 3/4″ NPT      WGC11
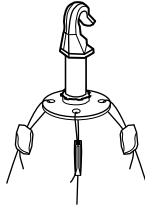
### HUB/HOOK MT

Mounting hook with safety screw allows easy replacement of existing HID fixtures. Hook attaches to the fixture with 3/4″ NPT cast iron hub and junction box.

A 10′ long aircraft cable and Y style hanger with toggle clips are factory furnished for leveling fixture from single support.
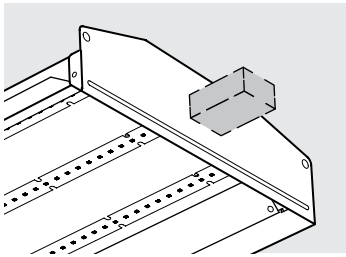
### HOOK/CABLE

Hook and 10′ cable mounting kit. Mounting hook is secured to the structure by eye bolt or loop (furnished by others).

Attached at the base of the hook is a circular mounting plate with four (4) 10′ adjustable cables, oriented in 90° intervals, suspended below.

## SENSOR PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS.

# GL LED Low-Profile Industrial

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

**Simple**
- Gateway-free distributed control
- Factory pre-commissioning
- 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

### SYSTEM COMPONENTS

Remote Management & Monitoring

Mobile Apps

Wall Stations

Remote Access Bridge

Ceiling Sensors

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## ACCESSORIES

### WALL STATIONS

| | |
|---|---|
| **AVI-2401AC** | Scene controller - numbered 1-4, 120-277VAC |
| **AVI-2402BAT** | Scene controller - numbered 1-4, battery powered |
| **AVI-2401AC-2** | Dimmer with presets - percentages, 120-277VAC |
| **AVI-2402BAT-2** | Dimmer with presets - percentages, battery powered |
| **AVI-2401AC-3** | On/off/dimming, 120-277VAC |
| **AVI-2402BAT-3** | On/off/dimming, battery powered |

### NETWORK

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

### CEILING MOUNT SENSORS

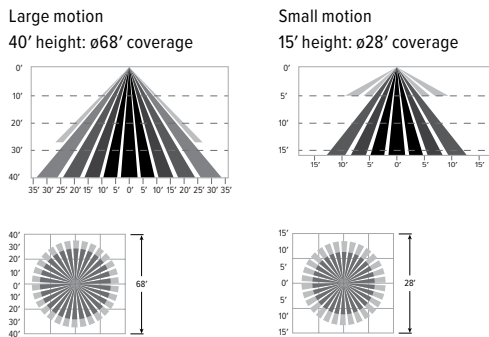| | |
|---|---|
| **AVI-KIT-SEN-DUCM** | PIR motion and ultrasonic sensor kit |
| **AVI-KIT-SEN-ICM** | PIR motion and photocell sensor kit |

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

### AVI-LVFA-PIR-ELB
Avi-on wireless fixture control with PIR motion and daylight sensor, end mount. DA Driver only.

#### 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 |

avi-on® Bluetooth® Lighting Controls

#### SENSOR COVERAGE PATTERNS

Large motion
40' height: ø68' coverage

Small motion
15' height: ø28' coverage
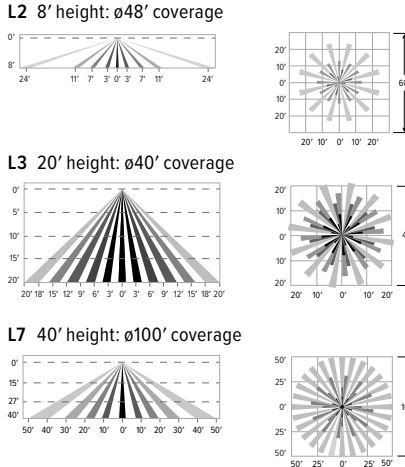
#### SENSOR DETAIL

# GL LED Low-Profile Industrial

## ADDITIONAL CONTROL OPTIONS

**OCCWS-FSP-321B-L_-120-480** Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.
**OCCWS-FSP-221B-L_-120-480** Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.
**FSIR-100** Remote controller for 221B 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 | 321B Sensor: App (iOS or Android)<br>221B Sensor: FSIR-100 Remote |

### SENSOR COVERAGE PATTERNS

**L2** 8' height: ø48' coverage



**L3** 20' height: ø40' coverage



**L7** 40' height: ø100' coverage



### SENSOR DETAIL



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**OCCWS-HBP-111-L7-120/277/347** Wattstopper PIR motion and daylight hold off sensor, 120/277/347V. Adjustable via remote. Optional FSIR-100 remote controller available.
**FSIR-100** Remote controller for HBP-111 sensor. Please specify quantity required per project. Ordered and shipped separately.

### SPECIFICATIONS

| | |
|---|---|
| TYPE | PIR Motion + Daylight Hold Off |
| MOUNTING HEIGHT | 15' – 40' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | 0° to 70°C |
| RELATIVE HUMIDITY | 5 to 95%, non-condensing |
| COMMISSIONING | FSIR-100 Remote |

### SENSOR COVERAGE PATTERNS

40' height: ø100' coverage
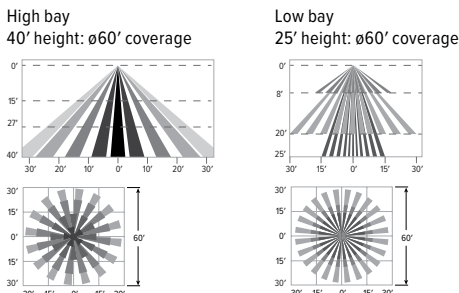


With mask: 40' height: ø50' coverage
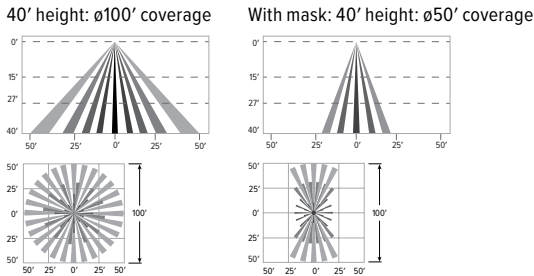


### SENSOR DETAIL



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**OCCLV-OSFHU-ITW-120-347** Leviton PIR motion sensor, 120-347V
**OCCLV-OSFHU-I4W-208/240/480** Leviton PIR motion sensor, 208/240/480V

### SPECIFICATIONS

| | |
|---|---|
| TYPE | PIR Motion |
| MOUNTING HEIGHT | 8' – 40' |
| LENS | Interchangeable high bay, low bay or aisle mask |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | -10° to 71°C |
| RELATIVE HUMIDITY | 20% to 90% non-condensing |

### SENSOR COVERAGE PATTERNS

High bay
40' height: ø60' coverage



Low bay
25' height: ø60' coverage



### SENSOR DETAIL

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice.
REV.02/19/24.LA

High Bay
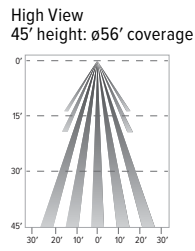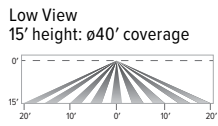Page 6 of 7

# GL

LED
Low-Profile Industrial

**OCCSS LSXR-6-120-277**  Sensor Switch PIR motion sensor, 120-277V
**OCCSS LSXR-6-347/480**  Sensor Switch PIR motion sensor, 347/480V

## SPECIFICATIONS

| | |
|---|---|
| **TYPE** | PIR Motion |
| **MOUNTING HEIGHT** | 15' – 45' |
| **DETECTION ANGLE** | 360° |
| **TEMPERATURE RANGE** | -10° to 60°C |
| **RELATIVE HUMIDITY** | Up to 90% non-condensing |

## SENSOR COVERAGE PATTERNS

Low View
15' height: ø40' coverage



High View
45' height: ø56' coverage



## SENSOR DETAIL

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