# SLF LED
## Surface or Wall Mount Light

**Williams**®



5-7/8″
5-1/16″

CATALOG #: _____

TYPE: _____

PROJECT: _____

## FEATURES

- Sleek design for direct lighting in stairwells and hallways
- IK10 rated for demanding environments
- High-performance up to 142 lm/W
- Optional end- or side-mount occupancy sensors provide added energy-efficiency
- Attractive, high-impact frosted acrylic lens
- Heavy-duty 16-gauge C.R.S. spot-welded housing
- Multiple dimming protocols available
- Optional tamper-resistant screws for vandal-prone areas
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

*BUY AMERICAN ACT COMPLIANT*

## SPECIFICATIONS

- HOUSING – 16-gauge C.R.S.
- SHIELDING – Frosted high-impact acrylic lens, .100″ thick.
- 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 board. Rated for 50,000 hours at 70% lumen maintenance (L70). 25°C maximum ambient operating temperature.
- MOUNTING – Wall and surface mount.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IK10 rated
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

**avi-on**® Bluetooth® Lighting Controls

## ORDERING EXAMPLE: SLF - 4 - L98/835 - HIA - OPTIONS - CONTROL/DIM - UNV

### ORDERING INFO

| SERIES | LENGTH | LUMENS [1] | | CRI | CCT | SHIELDING | |
|---|---|---|---|---|---|---|---|
| SLF | 2 2′ | **2′** | | 8 80 | 27 2700K | HIA | Frosted high-impact acrylic, lens secured with Phillips head screws. |
| | 4 4′ | L13 | 1,300lm | 9 90 [2] | 30 3000K | HIA/TP | Frosted high-impact acrylic with tamper resistant screws. [3] |
| | | L26 | 2,600lm | | 35 3500K | | |
| | | L45 | 4,500lm | | 40 4000K | | |
| | | **4′** | | | 50 5000K | | |
| | | L26 | 2,600lm | | | | |
| | | L52 | 5,200lm | | | | |
| | | L98 | 9,800lm | | | | |

### OPTIONS [4]

| | |
|---|---|
| EM/10W | 10-watt emergency battery [6] |
| EM/10WLP | Low-profile 10-watt emergency battery [7] |
| (L__) | Additional lower lumen packages available. [8] Example: 8,000 lumens = SLF-4-L98/835-(L80) |
| PSBR/120 | Single-circuit bottom-mounted pull switch on right [9] |
| PSBL/120 | Single-circuit bottom-mounted pull switch on left [10] |

### CONTROL [5]

| | |
|---|---|
| – | None |
| AVI-LVFA | Avi-on wireless fixture control [11] |
| AVI-LVFA-PIR | Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount [12] |
| VRF | Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) [13] |

### DRIVER [14]

| | |
|---|---|
| DIM | Driver with external dimming wires |
| DRV | Driver without external dimming wires |
| DA | Driver with 12V auxiliary power, without external dimming wires [15] |
| DSR | Sensor-ready driver without external dimming wires [16] |
| SD40 | Step-dimming driver, 40% light output [17] |
| SD50 | Step-dimming driver, 50% light output [18] |

### VOLTAGE

| | |
|---|---|
| 120 | 120V |
| 277 | 277V |
| UNV | 120-277V |
| 347 | 347V [19] |

### ACCESSORIES

**TPSN-8 TOOL** #8, tamper-resistant snake eyes tool [20]

### NOTES

1. Lumen output based on 80 CRI/3500K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2. Extended lead times may apply. Consult factory for availability.
3. Tamper-resistant (TPSN-8) tool is required with HIA/TP option, must be ordered separately, see Accessories.
4. See page 3 for FINISH OPTIONS. Custom color available upon request.
5. See page 5 for SENSOR PLACEMENT DETAILS. See page 5 for ADDITIONAL CONTROL OPTIONS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
6. 4′ only.
7. 2′ only.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. 120V only.
10. 120V only.
11. DA Driver only.
12. DA Driver only.
13. DSR or LDE Drivers only. LDE drivers require driver interface. See page 5 for VIVE CONTROL OPTIONS.
14. See page 5 for ADDITIONAL DRIVER OPTIONS.
15. Avi-on Controls only.
16. VRF Control only.
17. When specified with occupancy sensor option, one leg of the driver will be tied to the sensor by default.
18. When specified with occupancy sensor option, one leg of the driver will be tied to the sensor by default.
19. Not available with EM batteries or Avi-on Controls.
20. Required with HIA/TP Shielding. Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

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## FIXTURE PERFORMANCE DATA

| | LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|---|---|---|---|---|
| 2' | L13 | 1338 | 10.1 | 132 |
| | L26 | 2780 | 21.3 | 131 |
| | L45 | 4634 | 34.4 | 135 |
| 4' | L26 | 2862 | 20.1 | 142 |
| | L52 | 5092 | 37.2 | 137 |
| | L98 | 9815 | 74.8 | 131 |

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

### MULTIPLIER TABLE

| | COLOR TEMPERATURE | |
|---|---|---|
| | CCT | CONVERSION FACTOR |
| 80 CRI | 2700K | 0.97 |
| | 3000K | 0.99 |
| | 3500K | 1.00 |
| | 4000K | 1.03 |
| | 5000K | 1.06 |
| 90 CRI | 2700K | 0.80 |
| | 3000K | 0.82 |
| | 3500K | 0.83 |
| | 4000K | 0.86 |
| | 5000K | 0.89 |

## PHOTOMETRY

**SLF-4-L98/835-HIA-DIM-UNV Total** Luminaire Output: 9815 lumens; 74.8 Watts | Efficacy: 131.3 lm/W | 80 CRI; 3500K CCT
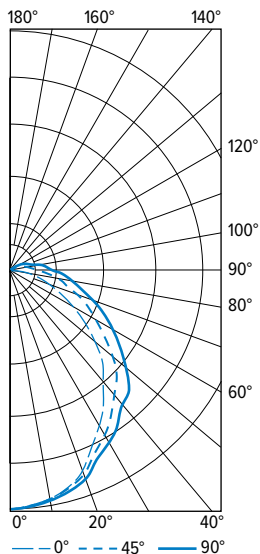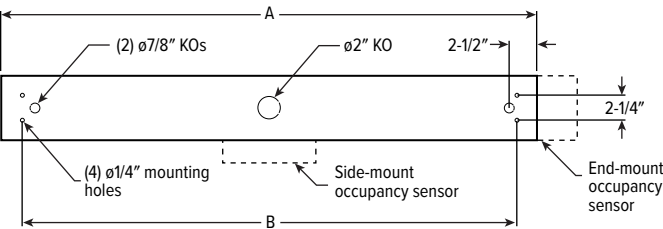


| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|---|---|---|---|---|
| | 0° | 45° | 90° | |
| 0 | 3169 | 3169 | 3169 | |
| 5 | 3203 | 3143 | 3139 | 299.3 |
| 15 | 3039 | 3024 | 3035 | 853 |
| 25 | 2738 | 2775 | 2839 | 1280 |
| 35 | 2330 | 2427 | 2554 | 1520 |
| 45 | 1839 | 1995 | 2200 | 1541 |
| 55 | 1291 | 1552 | 1805 | 1380 |
| 65 | 794 | 1139 | 1375 | 1098 |
| 75 | 369 | 746 | 977 | 759 |
| 85 | 52 | 448 | 672 | 464 |
| 90 | 6 | 348 | 560 | |
| 95 | 2 | 262 | 459 | 273 |
| 105 | 0 | 140 | 291 | 153 |
| 115 | 0 | 84 | 190 | 91 |
| 125 | 0 | 52 | 122 | 53 |
| 135 | 0 | 32 | 72 | 28 |
| 145 | 0 | 21 | 43 | 14 |
| 155 | 0 | 13 | 31 | 6 |
| 165 | 0 | 0 | 13 | 1 |
| 175 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | |

| | ZONE | LUMENS | % FIXTURE |
|---|---|---|---|
| LUMEN SUMMARY | 0 - 30 | 2432 | 25 |
| | 0 - 40 | 3953 | 40 |
| | 0 - 60 | 6874 | 70 |
| | 0 - 90 | 8732 | 89 |
| | 90 - 120 | 9196 | 94 |
| | 90 - 150 | 517 | 5 |
| | 90 - 180 | 611 | 6 |
| | 0 - 180 | 9815 | 100 |

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## FIXTURE DETAILS

### BACKVIEW



(2) ø7/8" KOs
ø2" KO
2-1/2"
A
2-1/4"
(4) ø1/4" mounting holes
Side-mount occupancy sensor
End-mount occupancy sensor
B

| NOMINAL LENGTH | ACTUAL LENGTH (A) | ACTUAL LENGTH (B) |
|---|---|---|
| 2' | 24-5/8" | 20-1/2" |
| 4' | 48-5/8" | 44-1/2" |

### PULL SWITCH



## FINISH OPTIONS

| WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM |
|---|---|---|---|---|---|
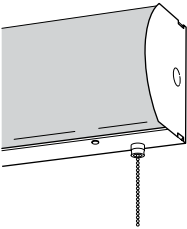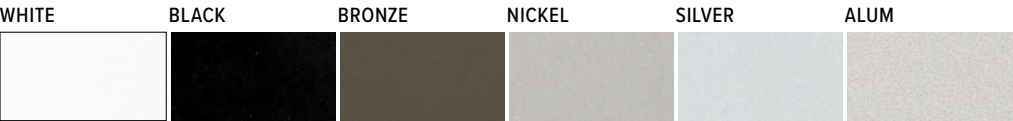
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## SENSOR PLACEMENT DETAILS

### AVI-LVFA | WS-FSP-311 | WS FSP-321
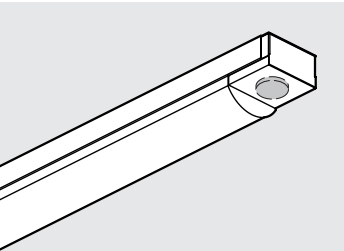


### WS-FS-505
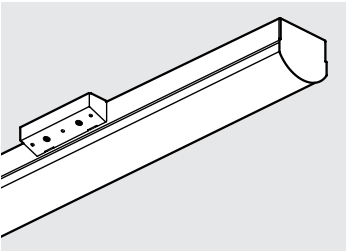


SEE NEXT PAGE FOR CONTROL DETAILS.

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## 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

### DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.

Commissioning Mobile App

Zone Scanner Web App

Commissioning Pro App

### SYSTEM COMPONENTS

Mobile Apps

Wall Stations

Remote Management & Monitoring

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 – LTE connection |
| **AVI-2001RAB-01-C** | Remote access bridge – Wifi connection |
| **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**  Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom 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 |

Bluetooth® Lighting Controls

### SENSOR COVERAGE PATTERNS
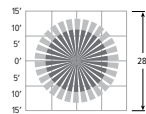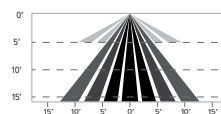
Large motion
40' height: ø68' coverage
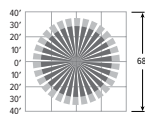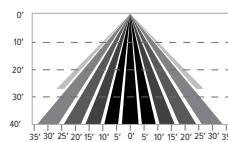
Small motion
15' height: ø28' coverage

### SENSOR DETAIL

Dimensions: 2-5/16" x 1-7/16"

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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 or L3. Factory installed.
**OCCWS-FSP-321-L_-120-480**  Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2 or L3. Factory installed.
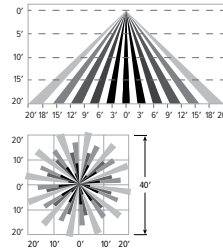
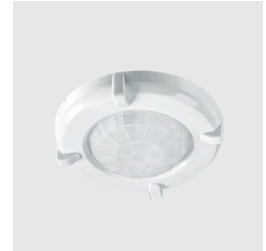| SPECIFICATIONS | |
|---|---|
| TYPE | PIR Motion + Daylight |
| MOUNTING HEIGHT | 8' – 20' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | -40° to 75°C |
| COMMISSIONING | App (iOS or Android) |

**SENSOR COVERAGE PATTERNS**

**L2** 8' height: ø48' coverage
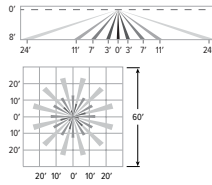
**L3** 20' height: ø40' coverage

**SENSOR DETAIL**

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**OCCWS-FS-505-PP-___**  Wattstopper low voltage ultrasonic motion sensor with power pack. Must specify voltage: 120, 277, or 347V.
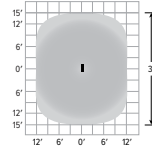
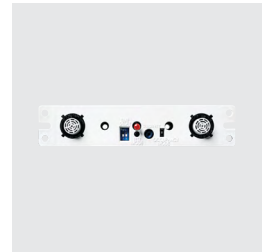| SPECIFICATIONS | |
|---|---|
| TYPE | Ultrasonic Motion |
| MOUNTING HEIGHT | 8' – 10' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | 0° to 55°C |
| RELATIVE HUMIDITY | 5 to 95%, non-condensing |

**SENSOR COVERAGE PATTERNS**

8' height: ø27' coverage
20° from vertical
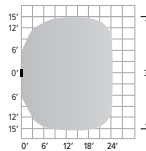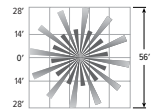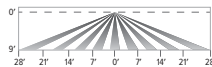
Parallel to floor

**SENSOR DETAIL**

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**OCCSS LSXR-10-120-277**  Sensor Switch PIR motion sensor, 120-277V
**OCCSS LSXR-10-347/480**  Sensor Switch PIR motion sensor, 347/480V

| SPECIFICATIONS | |
|---|---|
| TYPE | PIR Motion |
| MOUNTING HEIGHT | 7' – 15' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | -10° to 60°C |
| RELATIVE HUMIDITY | Up to 90% non-condensing |

**SENSOR COVERAGE PATTERNS**

9' height: ø56' coverage

**SENSOR DETAIL**

## VIVE CONTROL OPTIONS

| CATALOG NUMBER | DESCRIPTION |
|---|---|
| VRF | Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver |
| VRF/DBI | Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and digital link interface, for use with Lutron Hi-lume 1% EcoSystem dimming LED driver |

## ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

| CATALOG NUMBER | DESCRIPTION |
|---|---|
| DRV | Driver prewired for non-dimming applications |
| DIM | Dimming driver prewired for 0-10V low voltage applications |
| DIM1 | 1% dimming driver prewired for 0-10V low voltage applications |
| DIM LINE | Line voltage dimming driver (TRIAC and ELV compatible, 120V only) |
| DIM TRC | Line voltage dimming driver (TRIAC compatible, 120V only) |
| DA | Driver with 12V auxiliary power |
| DSR | Sensor-ready driver (DALI-D4i) |
| SD40 | 40% step-dimming driver |
| SD50 | 50% step-dimming driver |
| DALI | DALI dimming driver |
| LDE1 | Lutron Hi-lume 1% EcoSystem dimming LED driver |

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