

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
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## 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
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL).
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

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

### ORDERING INFO

SERIES	LENGTH	LUMENS <sup>[1]</sup>	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 <sup>[2]</sup>	30 3000K	HIA/TP Frosted high-impact acrylic with tamper resistant screws. <sup>[3]</sup>
		L26 2,600lm		35 3500K	
		L45 4,500lm		40 4000K	
		4'		50 5000K	
			L26 2,600lm		
		L52 5,200lm			
		L98 9,800lm			

### OPTIONS <sup>[4]</sup>

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

### CONTROL <sup>[5]</sup>

- See page 5 for ADDITIONAL CONTROL OPTIONS.
- None
  - AVI-LVFA** Avi-on wireless fixture control <sup>[11]</sup>
  - AVI-LVFA-PIR** Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount <sup>[12]</sup>
  - AWNDR** Lutron Athena wireless node integral fixture control, RF only <sup>[13]</sup>
  - AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[14]</sup>

### DRIVER

- See page 3 for ADDITIONAL DRIVER OPTIONS.
- DIM** Driver with external dimming wires
  - DRV** Driver without external dimming wires
  - DA** Driver with 12V auxiliary power, without external dimming wires <sup>[15]</sup>
  - DSR** Sensor-ready driver without external dimming wires (DAi DALI-2) <sup>[16]</sup>
  - SD40** Step-dimming driver, 40% light output <sup>[17]</sup>
  - SD50** Step-dimming driver, 50% light output <sup>[18]</sup>

### VOLTAGE

- 120 120V
- 277 277V
- UNV 120-277V
- 347 347V <sup>[19]</sup>

### ACCESSORIES

- TPSN-8 TOOL #8**, tamper-resistant snake eyes tool <sup>[20]</sup>

### NOTES

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



## 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

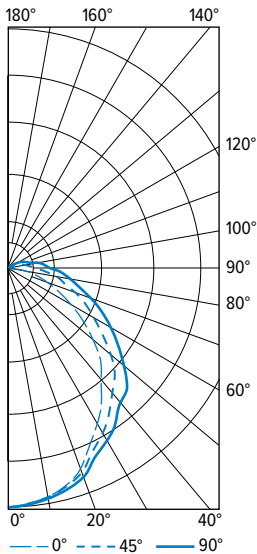
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier 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

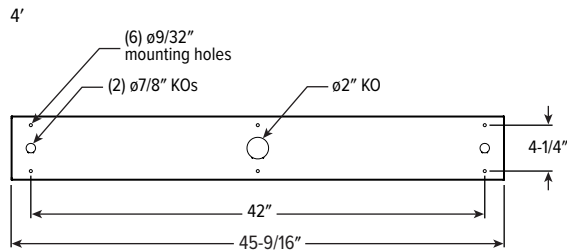
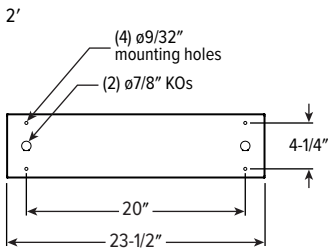


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3169	3169	3169	
5	3203	3143	3139	299.3
15	3039	3024	3035	853
25	2738	2775	2839	1280
35	2330	2427	2554	1520
45	1839	1995	2200	1541
55	1291	1552	1805	1380
65	794	1139	1375	1098
75	369	746	977	759
85	52	448	672	464
90	6	348	560	
95	2	262	459	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	0

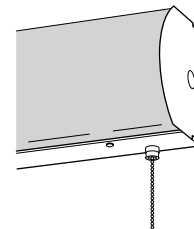
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2432	25
	0 - 40	3953	40
	0 - 60	6874	70
	0 - 90	8732	89
	90 - 120	9196	94
	90 - 150	517	5
	90 - 180	611	6
	0 - 180	9815	100

## FIXTURE DETAILS

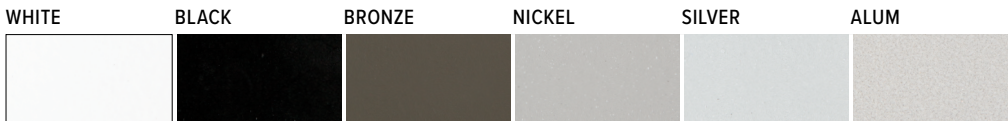
### BACKVIEW



### PULL SWITCH



## FINISH OPTIONS

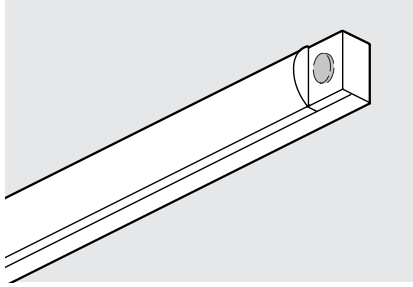


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

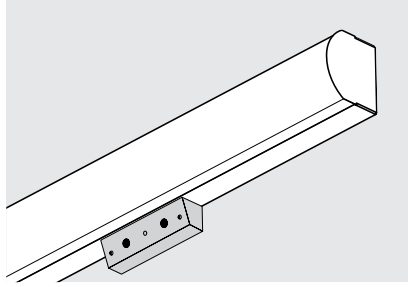


## SENSOR PLACEMENT DETAILS

AVI-LVFA | AWNS | WS-FSP-311 | WS FSP-321 | VDO



WS-FS-505



## ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://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 (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

SEE NEXT PAGE FOR CONTROL DETAILS.

## 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



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

### 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

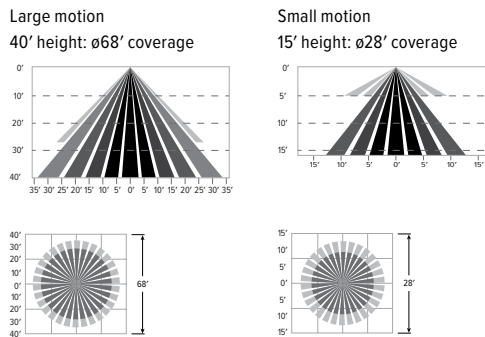
NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://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



### SENSOR DETAIL



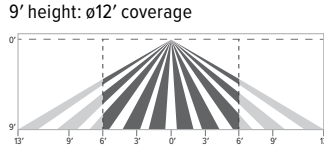
Dimensions: 2-5/16" x 1-7/16"

## ADDITIONAL CONTROL OPTIONS

**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

SPECIFICATIONS	
<b>TYPE</b>	Radio Frequency
<b>MOUNTING HEIGHT</b>	8' – 12'
<b>DETECTION ANGLE</b>	360°
<b>TEMPERATURE RANGE</b>	0° to 55°C
<b>RELATIVE HUMIDITY</b>	0 to 90%, non-condensing
<b>COMMISSIONING</b>	Clear Connect gateway – Type X with app (iOS or Android)
<b>MANUFACTURER</b>	Lutron

### SENSOR COVERAGE PATTERNS



### Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

### SENSOR DETAIL



Dimensions: ø1-1/8"

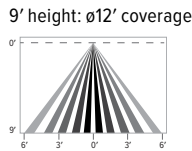
## ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power
AWNDR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary power, black finish

**VDO** Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC). DSR or LDE Drivers only. LDE drivers require driver interface

SPECIFICATIONS	
<b>TYPE</b>	PIR Motion + Daylight
<b>MOUNTING HEIGHT</b>	8' – 12'
<b>DETECTION ANGLE</b>	360°
<b>TEMPERATURE RANGE</b>	0° to 55°C
<b>RELATIVE HUMIDITY</b>	0 to 90%, non-condensing
<b>COMMISSIONING</b>	App (iOS or Android)
<b>MANUFACTURER</b>	Lutron

### SENSOR COVERAGE PATTERNS



### Motion Sensor Coverage

CEILING HEIGHT	COVERAGE AREA (SQ FT)
8'	114
9'	144
10'	178
12'	256

### SENSOR DETAIL



Dimensions: 2-11/16" x 1"

## VIVE CONTROL OPTIONS

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

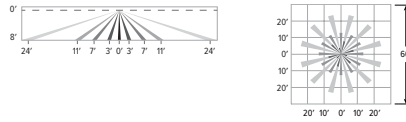


**OCCWS-FSP-311-L\_-120/277** Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.  
**OCCWS-FSP-321-L\_-120-480** Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3, or L7. Factory installed.  
**OCCWS-FSP-211-L\_-120/277** Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2, L3, or L7. Factory installed.  
**OCCWS-FSP-221-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 211 and 221 sensors. Please specify quantity required per project. Ordered and shipped separately.

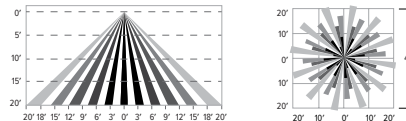
SPECIFICATIONS	
<b>TYPE</b>	PIR Motion + Daylight
<b>MOUNTING HEIGHT</b>	8' – 40'
<b>DETECTION ANGLE</b>	360°
<b>TEMPERATURE RANGE</b>	-40° to 75°C
<b>COMMISSIONING</b>	311   321 Sensors: App (iOS or Android) 211   221 Sensors: FSIR-100 Remote

### SENSOR COVERAGE PATTERNS

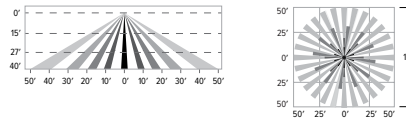
**L2 8' height: ø48' coverage**



**L3 20' height: ø40' coverage**



**L7 40' height: ø100' coverage**



### SENSOR DETAIL

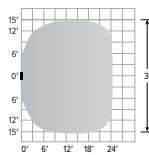


**OCCWS-FS-505-PP-\_\_\_** Wattstopper low voltage ultrasonic motion sensor with power pack. Must specify voltage: 120, 277, or 347V.

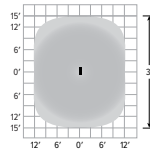
SPECIFICATIONS	
<b>TYPE</b>	Ultrasonic Motion
<b>MOUNTING HEIGHT</b>	8' – 10'
<b>DETECTION ANGLE</b>	360°
<b>TEMPERATURE RANGE</b>	0° to 55°C
<b>RELATIVE HUMIDITY</b>	5 to 95%, non-condensing

### SENSOR COVERAGE PATTERNS

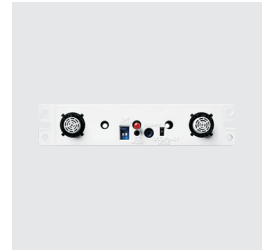
**8' height: ø27' coverage**  
20° from vertical



Parallel to floor



### SENSOR DETAIL



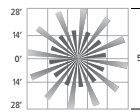
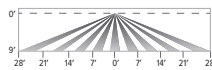
**OCCSS LSXR-10-120-277** Sensor Switch PIR motion sensor, 120-277V

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

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

### SENSOR COVERAGE PATTERNS

**9' height: ø56' coverage**



### SENSOR DETAIL

