

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Small fixture profile allows inconspicuous placement in covers or confined spaces
- Choice of diffuse and prismatic lenses
- Flat lens provides even illumination and minimizes glare
- Row applications produce continuous light with minimal interruption between fixtures
- Wide range of light levels to meet application requirements
- Variety of surface and suspended mounting accessories
- Optional wireguard provides added protection
- High-performance up to 154 lm/W
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- 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.
- SHIELDING – Diffuse matte acrylic, .080" thick.
- ELECTRICAL – High-quality mid-power LED board. Rated for 50,000 hours at 70% lumen maintenance (L70). 25°C maximum ambient operating temperature. See fixture performance data for lumen maintenance.
- MOUNTING – Surface (ceiling or wall) or suspended.
- LISTINGS – cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## ORDERING EXAMPLE: 75L - 4 - L65/835 - DMA - OPTIONS - CONTROL/DIM - UNV

### ORDERING INFO

SERIES	LENGTH <sup>[1]</sup>	LUMENS <sup>[2]</sup>	CRI	CCT	SHIELDING
75L	2 2'	2'	8 80	27 2700K	DMA Diffuse matte acrylic, .080" thick
	4 4'	L10 1,000lm	L40 4,000lm	9 90 <sup>[4]</sup>	
	8 8' <sup>[3]</sup>	L15 1,500lm	L76 7,600lm	35 3500K	AF12125 Frosted acrylic, pattern #12, .125" thick
		L20 2,000lm	L100 10,000lm		
		L32 3,200lm	L130 13,000lm	40 4000K	
		L40 4,000lm	L160 16,000lm	50 5000K	
		4'	L20 2,000lm		
		L38 3,800lm			
		L50 5,000lm			
		L65 6,500lm			
L80 8,000lm					

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

EM/10WLP	Low-profile 10-watt emergency battery <sup>[6]</sup>
EM/10WRM	Remote mount 10-watt emergency battery
QC__	Quick-connect wiring harness. <sup>[7]</sup>
WG-75	11-gauge white powder coat wireguard
315	1-1/2" ceiling spacer
VBV	(2) Y-hangers
VBV-2	(2) Y-hangers and (2) 2' chains
RA-75	Row aligner <sup>[8]</sup>
45AMB	(2) 45° adjustable mounting brackets <sup>[9]</sup>
(L__)	Additional lower lumen packages available. <sup>[10]</sup> Example: 5,500 nominal lumens = 75L-4-L65/835-(L55)

### AIRCRAFT CABLES (EXAMPLE: ACF/D48) <sup>[11]</sup>

Prefix	Type	Length
ACF/	Feeder	D 1" grid & hardpan 24 24"
ACJ/	Joiner	N 9/16" grid 48 48"
		S Slot grid 96 96"

### CONTROL <sup>[12]</sup>

-	None
AVI-LVFA	Avi-on wireless fixture control <sup>[14]</sup>
AVI-LVFA-PIR	Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount <sup>[15]</sup>
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount <sup>[16]</sup>

### DRIVER <sup>[13]</sup>

DIM	Driver with external dimming wires	120 120V	277 277V
DRV	Driver without external dimming wires	UNV 120-277V	347 347V <sup>[18]</sup>
DA	Driver with 12V auxiliary power, without external dimming wires <sup>[17]</sup>		

### VOLTAGE



## NOTES

- <sup>1</sup> For actual length, see page 2 for FIXTURE DETAILS.
- <sup>2</sup> Lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>3</sup> Ships with (2) 4' lenses.
- <sup>4</sup> Extended lead times may apply. Consult factory for availability.
- <sup>5</sup> See page 3 for FINISH OPTIONS. See page 3 for MOUNTING DETAILS.
- <sup>6</sup> 4' and 8' only; must specify 120V or 277V. Not available with L65 and L130 lumen packages.
- <sup>7</sup> See page 2 for QUICK CONNECT OPTIONS.
- <sup>8</sup> Required when row mounting with aircraft cables.
- <sup>9</sup> Cord recommended, ships separately. Field-adjustable up and down in 7-1/2" increments. Field-adjustable up and down in 7-1/2" increments.
- <sup>10</sup> Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- <sup>11</sup> Units specified with aircraft cable require cord. Requires RA-75 row aligner. See page 3 for MOUNTING DETAILS.
- <sup>12</sup> See page 6 for ADDITIONAL CONTROL OPTIONS. See page 3 for SENSOR PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- <sup>13</sup> See page 6 for ADDITIONAL DRIVER OPTIONS.
- <sup>14</sup> DA Driver only.
- <sup>15</sup> DA Driver only.
- <sup>16</sup> DA driver only.
- <sup>17</sup> Avi-on and LV-ZLS05 Controls only.
- <sup>18</sup> Not available with EM batteries or Avi-on Controls.



## FIXTURE PERFORMANCE DATA

	LED PACKAGE	WATTAGE	DMA LENS		AF12125 LENS		LUMEN MAINTENANCE			
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	L70	L80	L85	L90
2'	L10	8.3	1023	122.8	1177	141.8	>72000	>72000	>72000	50000
	L15	12.5	1514	121.0	1743	139.4	>72000	>72000	>72000	50000
	L20	17.0	2024	119.0	2329	137.0	>72000	>72000	>72000	50000
	L32	27.8	3209	115.6	3694	132.9	>72000	>72000	58000	36000
	L40	33.8	4014	118.9	4620	136.7	>72000	>72000	58000	36000
4'	L20	16.2	2045	126.3	2354	145.3	>72000	>72000	>72000	50000
	L38	31.2	3936	126.0	4530	145.2	>72000	>72000	>72000	50000
	L50	42.2	5130	121.5	5904	139.9	>72000	>72000	58000	36000
	L65	55.7	6546	117.5	7535	135.2	>72000	>72000	58000	36000
	L80	66.9	8079	120.7	9299	139.0	>72000	>72000	58000	36000
8'	L40	29.7	3975	133.8	4575	154.0	>72000	>72000	>72000	50000
	L76	60.3	7676	127.4	8835	146.5	>72000	>72000	>72000	50000
	L100	81.5	10128	124.2	11657	143.0	>72000	>72000	58000	36000
	L130	111.4	13092	117.5	15069	135.3	>72000	>72000	58000	36000
	L160	133.8	16159	120.7	18599	139.0	>72000	>72000	58000	36000

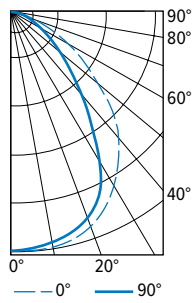
### MULTIPLIER TABLE

	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

- 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%
- Use multiplier table to calculate additional options.

## PHOTOMETRY

75L-4-L65/835-DMA Total Luminaire Output: 6547 lumens; 55.7 Watts | Efficacy: 118 lm/W | 80 CRI; 3500K CCT

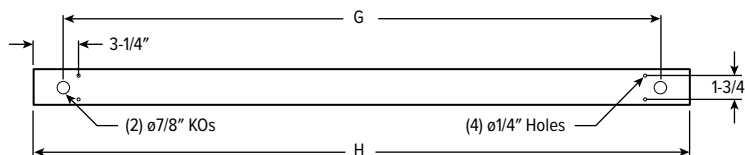


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2916	2916	2916	
	5	2975	2900	2850	275
	15	2830	2751	2677	776
	25	2560	2448	2326	1127
	35	2183	2014	1846	1263
	45	1713	1505	1307	1174
	55	1198	1019	864	929
	65	743	605	506	619
	75	358	282	237	308
	85	82	59	56	75
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2178	33
	0 - 40	3441	53
	0 - 60	5544	85
	0 - 90	6547	100
	0 - 180	6547	100

## FIXTURE DETAILS

### BACKVIEW



	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2'	18-3/8"	22-1/2"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

## QUICK CONNECT OPTIONS

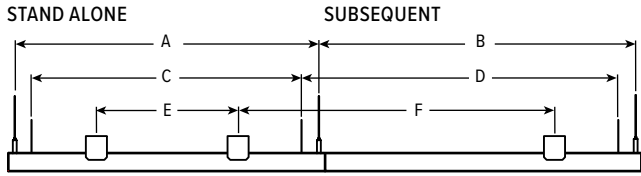
Note: Quick connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it



# 75L LED Flat Lens Strip

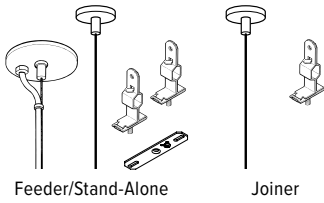
## MOUNTING DETAILS



## MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

## STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



### Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

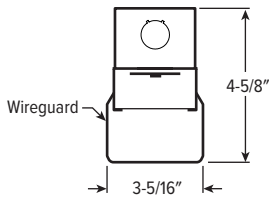
## CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

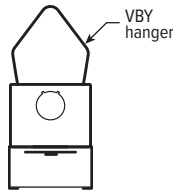
EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. <sup>(1)</sup>	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White
	48 48"	4		/B Black
	96 96"	6		

<sup>1</sup> Includes (2) 22ga purple & pink dimming conductors

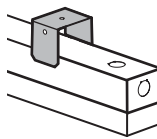
## WG-75



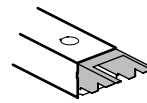
## VBY



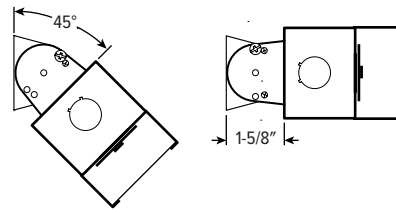
## 315



## RA-75

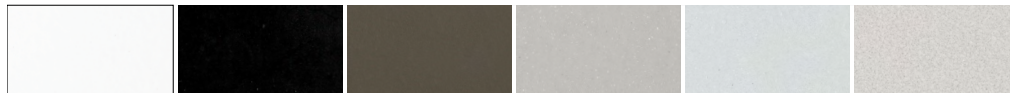


## 45AMB



## FINISH OPTIONS

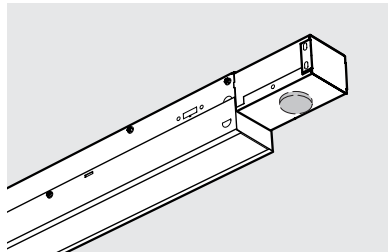
WHITE      BLACK      BRONZE      NICKEL      SILVER      ALUM



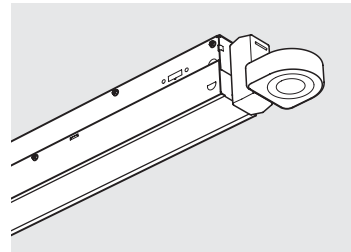
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## SENSOR PLACEMENT DETAILS

AVI-LVFA | WS-FSP | LV-ZLS05



LV-OSFHU



SEE NEXT PAGE FOR CONTROL DETAILS.

# 75L LED Flat Lens Strip

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### AVI-ON NETWORK 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 warehouses
- 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



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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
CONNECTIVITY	
AVI-2001RAB-01-P	Remote access bridge for projects 100 or greater
AVI-2001RAB-01-C	Remote access bridge for projects less than 100
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)



# 75L LED Flat Lens Strip

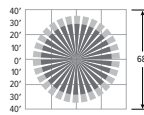
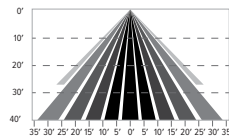
**AVI-LVFA-PIR** Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount. DA Driver only.

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

## SENSOR COVERAGE PATTERNS

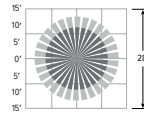
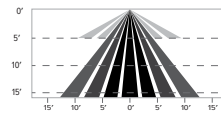
Large motion

40' height: ø68' coverage



Small motion


15' height: ø28' coverage



## SENSOR DETAIL



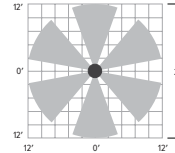
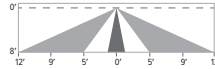
**AVI-LVFA-CS2-PIR** Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
<b>TYPE</b>	PIR Motion + Daylight
<b>MOUNTING HEIGHT</b>	8' – 10'
<b>DETECTION ANGLE</b>	360°
<b>TEMPERATURE RANGE</b>	-30° to 50°C
<b>RELATIVE HUMIDITY</b>	10 to 80% non-condensing
<b>IP RATING</b>	IP20
<b>MANUFACTURER</b>	Avi-On
	

## SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage



## SENSOR DETAIL



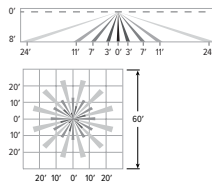
## ADDITIONAL CONTROL OPTIONS

**WS-FSP-311-L\_-120/277** Wattstopper PIR motion and daylight sensor, 120/277. Must specify lens: L2 or L3. Factory installed.

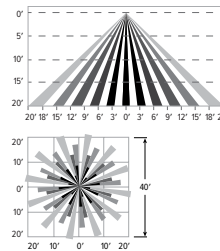
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 20'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

### SENSOR COVERAGE PATTERNS

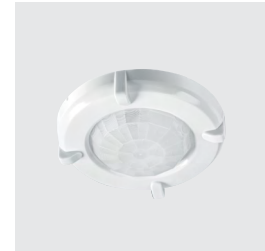
**L2 8' height: ø48' coverage**



**L3 20' height: ø40' coverage**



### SENSOR DETAIL



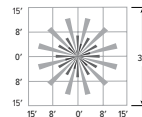
**LV-ZLS05-ILW** Leviton PIR motion and daylight sensor. DA Driver only. Adjustable via remote. Optional ZLSOR-RA1 remote controller available.

**ZLSOR-RA1** Remote controller for ZLS05 sensor. Please specify quantity required per project. Ordered and shipped separately.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 10'
DETECTION ANGLE	120°
TEMPERATURE RANGE	-20° to 70°C
COMMISSIONING	DIP switches or optional remote: ZLSOR-RA1

### SENSOR COVERAGE PATTERNS

**10' height: ø24' coverage**



### SENSOR DETAIL

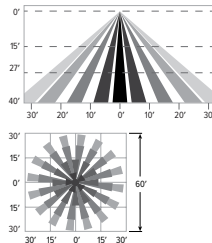


**LV-OSFHU-ITW-120-347** Leviton PIR motion sensor, 120-347V.

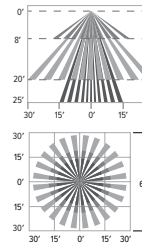
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

### SENSOR COVERAGE PATTERNS

**High bay  
40' height: ø60' coverage**



**Low bay  
25' height: ø60' coverage**



### SENSOR DETAIL



## 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	Dimming driver with 12V auxiliary
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

