





FEATURES

- Slim, low-profile suspended or surface mount fixture provides an architectural alternative to standard wrap-around
- Round or square profile provides design choices for a variety of applications
- Quality, frosted, extruded acrylic lens snaps securely in place to provide gentle diffused illumination
- Slim end plates are designed to conform to lens shape and prevent unsightly light leaks
- Internal, self-aligning joining method ensures straight rows
- Wireless in-fixture control solutions available
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING 20-gauge die-formed C.R.S.
- ${\sf SHIELDING-Frosted}, \, {\sf matte\ acrylic,\ round}$ or square profile.
- FINISH Textured matte white polyester TGIC powder coat bonded to phosphatefree, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL High-quality mid-power LED boards. L70 >72,000 hours per IES TM-21. See fixture performance data for lumen maintenance.
- MOUNTING Surface (ceiling or wall) or suspended (hanging hardware required)
- 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 hew.com/warranty.

ORDERING EXAMPLE: LLM - 4 - L6/835 - S - SQ - ACF/D48 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES NOMINAL LENGTH [1] LUMENS [2] CRI CCT MOUNTING TYPE LLM Stand-alone: 2', 4' & 8' nominal lengths, fixture L6 600lm 8 80 **27** 2700K S Surface ships assembled. Example: 4 = 4' **9** 90^[3] **30** 3000K L10 1,000lm P Suspended Row-mount: Lengths specified in 4' increments **35** 3500K **L15** 1,500lm Example: 12 = 12 L20 2,000lm **40** 4000K **Product Builder 50** 5000K Simplify ordering & layout design with the

SHIFI DING MOUNTING

RD Round frosted acrylic AIRCRAFT CABLES (EXAMPLE: ACF/D48) [4]

Williams Linear Product Builder at hew.com

SQ Square frosted acrylic Prefix Type Lenath ACF/ Feeder D 1" grid & hardpan **24** 24" N 9/16" grid **48** 48" ACJ/ Joiner S Slot grid **96** 96"

OPTIONS

See page 3 for FINISH OPTIONS.

EM/10WLP Low profile 10-watt emergency battery [6] EM/10WRM Remote mount 10-watt emergency battery [7] EM/12WRM Remote mount 12-watt emergency battery [8]

Pull switch, single circuit [9] PS/120 WRS/120 White rocker switch [10]

(2) 45° adjustable mounting brackets [11] 45AMB (L)

Additional lower lumen packages available [12] Example: 800 lumens = LLM-4-L10/835-(L8)

CONTROL [5]

See page 5 for ADDITIONAL CONTROL OPTIONS. None

AVI-LVFA

AVI-LVFA-CS2-PIR

AWNR

AWNS

Avi-on wireless fixture control [13] Avi-on wireless fixture control with PIR motion and daylight sensor [14] Lutron Athena wireless node integral fixture control, RF only [15]

Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [16]

DRIVER

See page 6 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 [17]

DSR Sensor-ready driver without external dimming wires (D4i DALI-2) [18]

VOLTAGE

120 120V **277** 277V **UNV** 120-277V

347 347V [19]

NOTES

- 8' length ships with (2) 4' lenses.
- Lumens per foot 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
- Extended lead times may apply. Consult factory for availability.

 Must specify P Mounting Type only. See page 3 for

 MOUNTING DETAILS.
- See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- Available in 4' and 8' lengths only. Not available with L20 lumen
- See page 3 for MOUNTING DETAILS.
- Not available when CEC regulations are required. See page 3 for MOUNTING DETAILS.

- 120V only. S Mounting Type only.
- 120V only. S Mounting Type only.
 Surface mount only. Cord recommended, ships separately. See page 3 for MOUNTING DETAILS. Field-adjustable up and
- down in 7-1/2° increments. (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher
- lumen package. DA Driver only.

- DA Driver only.

 DA Driver only.

 DA and DSR Drivers only.

 DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Athena Controls only.
 Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	PER FOOT					LU	JMEN MAIN	NTENANCE	[1]
	DELIVERED LUMENS		EFFICACY (Im/W)		WATTAGE	L70	100	L85	L90
	RD LENS	SQ LENS	RD LENS	SQ LENS	WAITAGE	L/0	L80	LõD	L90
L6	597	609	153	156	3.9	>72000	>72000	>72000	50000
L10	990	1010	148	151	6.7	>72000	>72000	>72000	50000
L15	1505	1536	145	148	10.4	>72000	>72000	58000	36000
L20	1986	2027	144	147	13.8	>72000	>72000	58000	36000

- Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.

 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.

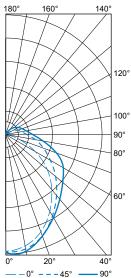
MULTIPLIER TABLE

	COLOR TEMPERATURE				
	CCT	CONVERSION FACTOR			
	2700K	0.97			
~	3000K	0.99			
80 CRI	3500K	1.00			
œ	4000K	1.03			
	5000K	1.06			
	2700K	0.80			

	2700K	0.80
=	3000K	0.82
90 CRI	3500K	0.83
6	4000K	0.86
	5000K	0.89

PHOTOMETRY

LLM-4-L10/835-S-SQ Total Luminaire Output: 3920 lumens; 24.7 Watts | Efficacy: 159 lm/W | 80 CRI; 3500K CCT

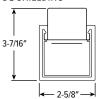


	VERTICAL ANGLE	HO	RIZONTAL AND	GLE	ZONAL LUMENC
	VERTICAL ANGLE	0°	45°	90°	ZONAL LUMENS
	0	1196	1196	1196	
	5	1201	1206	1209	114
	15	1107	1126	1131	318
	25	956	991	1005	457
	35	772	838	884	520
IS	45	553	676	779	520
5	55	363	538	683	479
DISTRIBUTION	65	219	428	584	413
<u>S</u>	75	105	314	443	319
	85	31	229	330	224
∣≅	90	5	173	250	
	95	0	165	232	154
CANDLEPOWER	105	0	134	180	122
₹	115	0	110	148	94
	125	0	90	126	72
	135	0	73	103	51
	145	0	64	90	35
	155	0	48	63	20
	165	0	36	41	8
	175	0	12	24	1
	180	0	0	0	

RY	ZONE	LUMENS	% FIXTURE
₹	0 - 30	889	23
LUMEN SUMMARY	0 - 40	1408	36
SN	0 - 60	2407	61
뿔	0 - 90	3363	86
3	90 - 180	557	14
	0 - 180	3920	100

CROSS SECTIONS

SQ SHIELDING









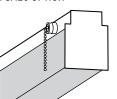
FIXTURE DETAILS

BACKVIEW (2) Aircraft cable mounting holes -(2) ø7/8" KO (2) ø1/4" Holes O.Z. 1-7/8"

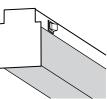
NOMINAL LENGTH	ACTUAL LENGTH	Α
2′	24-5/16"	23-5/16"
4′	46-7/16"	45-7/16"
8′	92-15/16"	91-15/16"

Actual length, see table

PS/120 OPTION

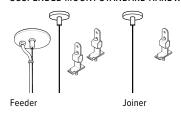


WRS/120 OPTION



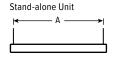
MOUNTING DETAILS

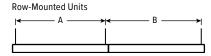
SUSPENDED MOUNT STANDARD HARDWARE (Grid and Hardpan)



- 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.

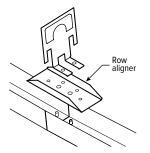
CENTER-TO-CENTER SUSPENDED MOUNTING CABLE





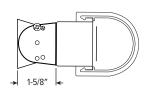
	CABLE MOUNT		
	А	В	
2′	23-1/4"	24-1/4"	
4′	45-3/8"	46-3/8"	
8′	91-3/4"	92-3/4"	





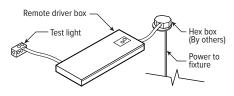


45AMB



REMOTE MOUNT BATTERY

Max remote distance 50'.

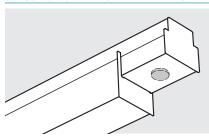


FINISH OPTIONS

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 & NODE PLACEMENT 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 offices to large warehouses
- Flexible control strategies

- 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.







Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



Remote Management & Monitoring







Wall Stations







Ceiling Sensors

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

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

SENSOR COVERAGE PATTERNS

Side View

8' height: ø24' coverage



SENSOR DETAIL



Dimensions: 13/16" x 2-1/4"



ADDITIONAL CONTROL OPTIONS

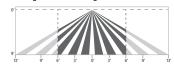
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

\$LUTRON

SENSOR COVERAGE PATTERNS

9' height: ø12' coverage



Motion Sensor Coverage

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

SENSOR DETAIL



Dimensions: ø1-1/8"

SENSOR DETAIL

ATHENA CONTROL OPTIONS

CATALOG NUMBER	DESCRIPTION
AWNR	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
AWNR-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

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 311 Sensor: App (iOS or Android) 211 Sensor: FSIR-100 Remote COMMISSIONING

SENSOR COVERAGE PATTERNS

L2 8' height: ø48' coverage



L3 20' height: ø40' coverage







L7 40' height: ø100' coverage





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





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 (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver