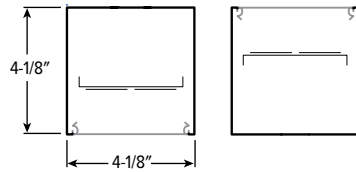


# MX4 LED 4" Continuous – Suspended



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

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

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



## FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Flat and proud lenses give designers a variety of looks
- Moveable mounting hardware easily slides along the length of the fixture providing variable mounting points
- High-performance up to 117 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see [hew.com/mx4](http://hew.com/mx4)
- Corner configurations available, see Product Builder at [hew.com/product-builder](http://hew.com/product-builder)
- Diffuse acrylic lens provides uniform illumination for visual comfort
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast end plates.
- SHIELDING – Extruded, flat, diffuse acrylic lens.
- FINISH – Textured matte white polyester TGIC 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. L70 >60,000 hours per IES TM-21. 25°C maximum ambient operating temperature. 50/60 Hz constant current driver.
- MOUNTING – Suspended. 1/16" diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid and hardpan ceiling applications provided.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - UL 924 available, see Options.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at [hew.com/buy-american](http://hew.com/buy-american)
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

## ORDERING EXAMPLE: MX4D - 12'00 - L8/835 - F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

### SERIES

**MX4D** Down  
**MX4U** Up

### ILLUMINATED LENGTH <sup>[1]</sup>

Lengths specified in feet and inches using 4" increments, 2' minimum. Example: 12'00 = 12'-0"

### Product Builder

Easily build shapes & simplify ordering with the Williams Linear Product Builder at [hew.com/product-builder](http://hew.com/product-builder) <sup>[2]</sup>



LUMENS <sup>[3]</sup>	CRI	CCT	SHIELDING	MOUNTING (EXAMPLE: AC/D48) <sup>[4]</sup>
L8 800lm	8 80	27 2700K	F Flat, diffuse acrylic	Prefix Type Length
L12 1200lm	9 90	30 3000K	P Proud, diffuse acrylic with 5/16" drop <sup>[5]</sup>	AC/ D 1" grid & hardpan 24 24"
L15 1500lm		35 3500K		N 9/16" grid 48 48"
		40 4000K		S Slot grid 96 96"
		50 5000K		MSF_ Microstem, 1/4" IPS, specify length in inches <sup>[6]</sup>

### OPTIONS <sup>[7]</sup>

See page 4 for FINISH OPTIONS.

<b>EM/10W</b>	10-watt emergency battery <sup>[9]</sup>
<b>EM/10WRM</b>	Remote mount 10-watt emergency battery
<b>EM/10WRM/RTS</b>	Remote mount 10-watt emergency battery with regressed test switch
<b>V90</b>	Vertical 90° corner, suspended
<b>ASY</b>	Asymmetric distribution <sup>[10]</sup>
<b>(L__)</b>	Additional lower lumen packages available <sup>[11]</sup> Example: 600 lumens = MX4D-12'00-L8/835-(L6)
<b>GEN</b>	Approved for UL 924 emergency generator circuit through-feed wiring <sup>[12]</sup>

### CONTROL <sup>[8]</sup>

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
<b>AVI-LVFA</b>	Avi-on wireless fixture control <sup>[13]</sup>
<b>AVI-LVFA-CS2-PIR</b>	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[14]</sup>
<b>AWNDR</b>	Lutron Athena wireless node integral fixture control, RF only <sup>[15]</sup>
<b>AWNS</b>	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[16]</sup>

### DRIVER

See page 7 for ADDITIONAL DRIVER OPTIONS.

<b>DIM</b>	Driver with external 0-10V dimming wires
<b>DRV</b>	Driver without external dimming wires
<b>DA</b>	Driver with 12V auxiliary power, without external dimming wires <sup>[17]</sup>
<b>DSR</b>	Sensor-ready driver without external dimming wires (D4i DALI-2) <sup>[18]</sup>

### VOLTAGE

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

### NOTES

- Endcaps add 7/8" to overall specified length.
- See page 4 for CORNER DETAILS.
- Lumens per foot output based on F Shielding, 80 CRI/3500K CCT. Actual performance may vary ± 5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- See page 3 for MOUNTING DETAILS.
- MX4D only. See page 3 for CROSS SECTIONS. Not available with corner configurations or transition options.
- MX4D only. Power cord does not run through microstem.
- Remote EM batteries: max remote distance 50', including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for REMOTE MOUNT BATTERY DETAILS.
- Remote recommended for use in downlight orientation only. Reduces portion of lit fixture, consult factory. See page 4 for SENSOR & NODE PLACEMENT DETAILS. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- L8 and L12 only. Not available with fixtures less than 4'.
- Available with F shielding only. Creates uneven lens illumination. See page 3 for CROSS SECTIONS.
- (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- MX4D only. Maximum mounting height is 29.4' (9.0 m). Minimum lumen output is 400 lm/ft. See [hew.com/UL924](http://hew.com/UL924) for details.
- DA driver only.
- DA driver only.
- DA and DSR Drivers only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Vive and Athena Controls only.
- Not available with EM batteries, control sensors, DA, or DSR Drivers.



# MX4 LED 4" Continuous – Suspended

## FIXTURE PERFORMANCE DATA

	DOWN (PER FOOT)			UP (PER FOOT)		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L8	824	7.3	113	851	7.3	117
L12	1175	10.8	109	1187	10.8	110
L15	1439	13.5	107	1439	13.5	107

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 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 tables to calculate additional options.

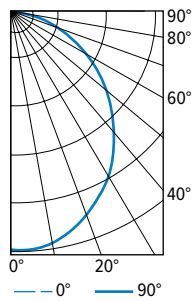
## MULTIPLIER TABLES

	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

ASY OPTION	
WATTAGE	EFFICACY (lm/W)
1.03	0.97

## PHOTOMETRY

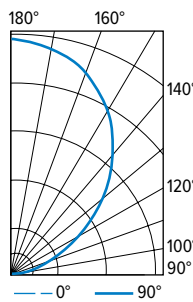
**MX4D-4'00-L8/835-F-DIM** Total Luminaire Output: 3296 lumens; 29.2 Watts | Efficacy: 113 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	894	894	894	
5	913	887	878	123
15	882	846	832	348
25	789	764	746	512
35	684	651	639	597
45	555	530	510	597
55	415	395	371	513
65	270	254	243	368
75	127	122	121	192
85	20	25	23	45
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	983	30
0 - 40	1580	48	
0 - 60	2690	82	
0 - 90	3296	100	
0 - 180	3296	100	

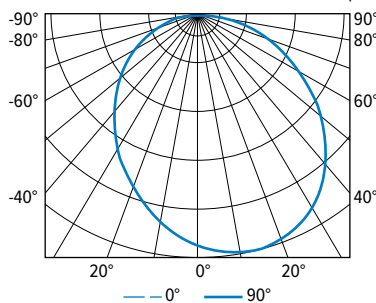
**MX4D-4'00-L8/835-F-DIM** Total Luminaire Output: 3404 lumens; 29.2 Watts | Efficacy: 117 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
90	0	0	0	
95	20	19	17	29
105	161	123	103	138
115	382	285	242	298
125	643	516	431	477
135	933	818	688	624
145	1189	1112	1006	681
155	1389	1315	1261	603
165	1498	1456	1419	410
175	1557	1519	1501	144
180	1540	1540	1540	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	90 - 120	465	14
90 - 130	941	28	
90 - 150	2247	66	
90 - 180	3404	100	
0 - 180	3404	100	

**MX4D-4'00-L8/835-F-ASY** Total Luminaire Output: 3197 lumens; 29.2 Watts | Efficacy: 109 lm/W | 80 CRI; 3500K CCT



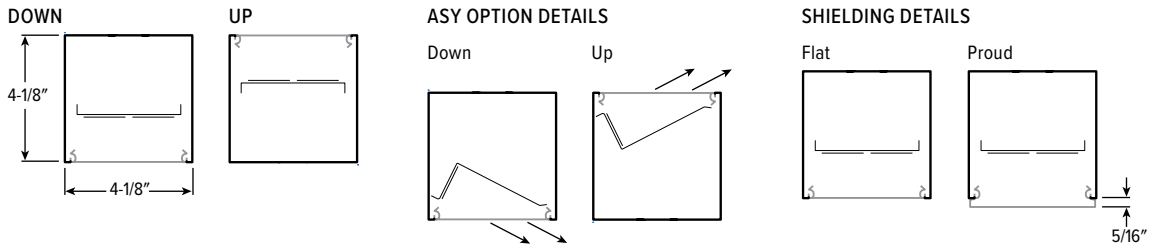
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1153	1153	1153	1153	1153	
5	1149	1175	1188	1175	1149	109
15	1101	1185	1221	1185	1101	311
25	1011	1135	1187	1135	1011	468
35	881	1024	1083	1024	881	556
45	726	868	922	868	726	566
55	560	684	730	684	560	507
65	384	481	516	481	384	387
75	203	275	300	275	203	227
85	50	86	100	86	50	67
90	2	13	19	13	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	887	28
0 - 40	1443	45	
0 - 60	2516	79	
0 - 90	3197	100	
0 - 180	3197	100	



# MX4 LED 4" Continuous – Suspended

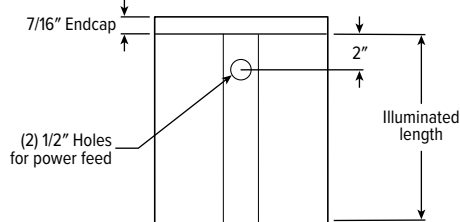
## CROSS SECTIONS



## FIXTURE DETAILS

See [hew.com/power-entry](http://hew.com/power-entry) for power entry details.

### MX4D BACK VIEW

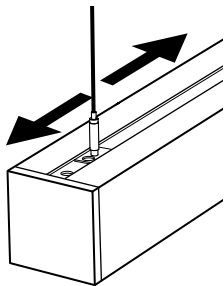


## MOUNTING DETAILS

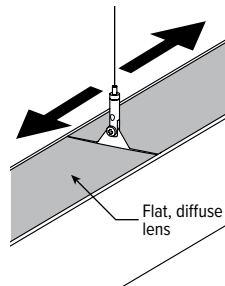
Aircraft cable row mount accessories can be repositioned along the length of the channel, providing flexible mounting locations to suit any application.

### AIRCRAFT CABLE

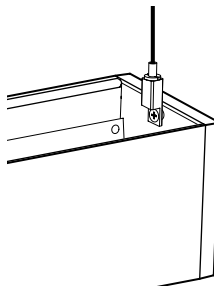
#### MX4D Direct Hanger



#### MX4U Mid-fixture Hanger

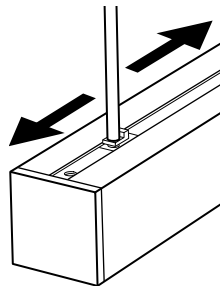


#### MX4U Standalone hanger



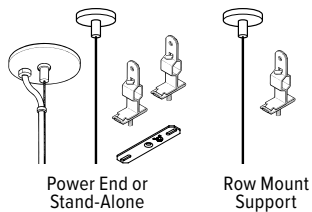
### MICROSTEM

#### MX4D only



Power cord does not run through microstem.

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



#### Notes:

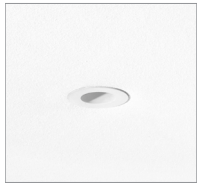
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the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



# MX4<sup>LED</sup> 4" Continuous – Suspended

## REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



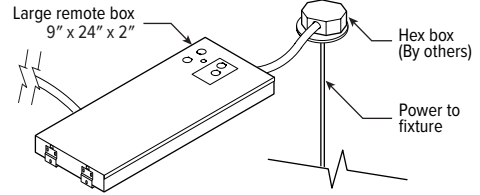
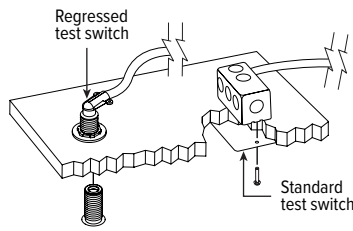
Regressed test switch  
ø1-3/4"

EM/10WRM



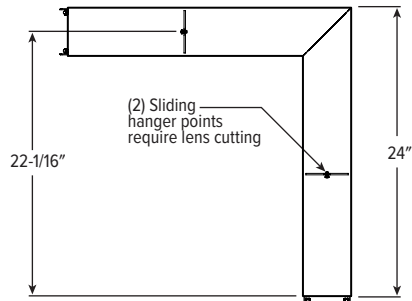
Standard test switch  
2-3/4" x 4-1/2"

Max remote distance is 50' including suspension length, connection by others.

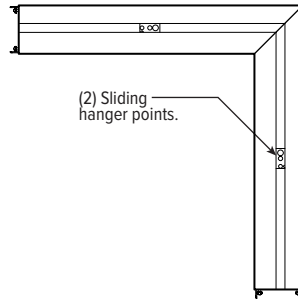


## CORNER DETAILS

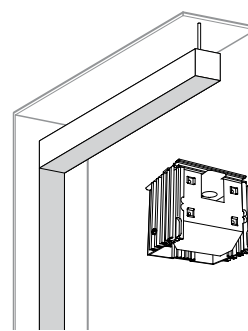
MX490U BACK VIEW



MX490D BACK VIEW



V90 TRANSITION CORNER

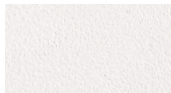


Note: Corner orientation determined in field. Feeder corner end cap shipped separately.

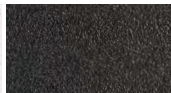
Includes tamper resistant lens bracket for lower end of vertical fixture.

## FINISH OPTIONS

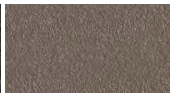
WHITE



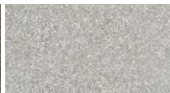
BLACK



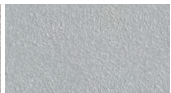
BRONZE



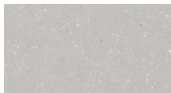
NICKEL



SILVER

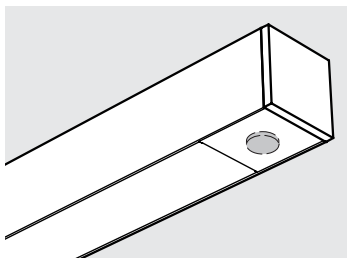


ALUM



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



SEE NEXT PAGE FOR CONTROL DETAILS.



# MX4 LED 4" Continuous – Suspended

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- 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

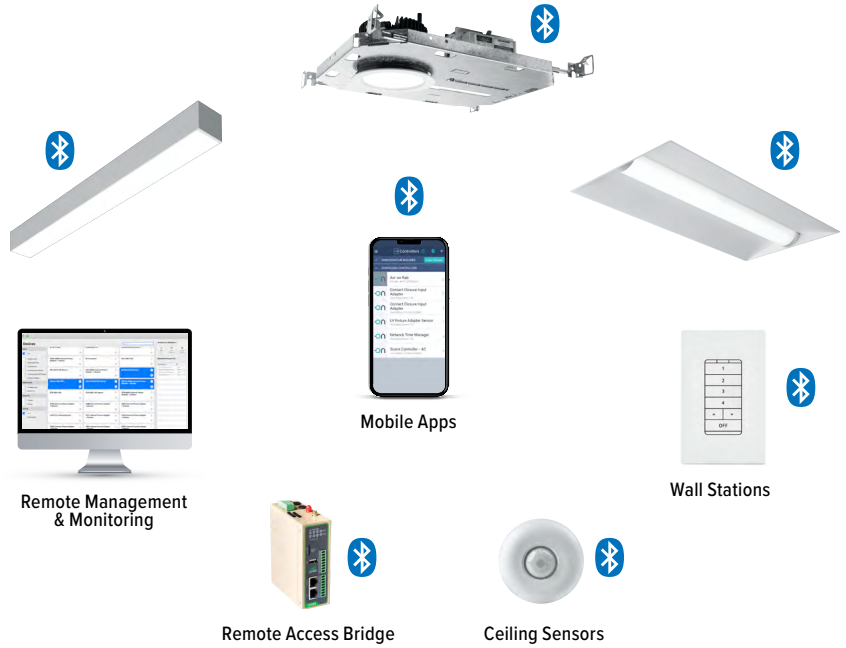


Zone Scanner Web App



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-B-2401AC-1** Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
- AVI-B-2402BAT-1** Scene controller - buttons numbered 1-4 and up/down/off, battery powered
- AVI-B-2401AC-2** Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
- AVI-B-2402BAT-2** Dimmer with presets - buttons with percentages and up/down/off, battery powered
- AVI-B-2401AC-3** Two button control on/off or hold to dim up/down, 120-277VAC
- AVI-B-2402BAT-3** Two button control on/off or hold to dim up/down, battery powered

#### NETWORK

- AVI-RAB-LTE** Remote access bridge
- AVI-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-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

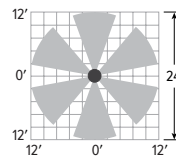
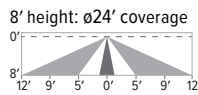
#### SPECIFICATIONS

<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



#### SENSOR DETAIL



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

CONTROL DETAILS CONTINUED ON NEXT PAGE.



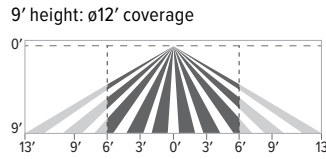
# MX4<sup>LED</sup> 4" Continuous – Suspended

## ADDITIONAL CONTROL OPTIONS

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

SPECIFICATIONS	
TYPE	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

### 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"

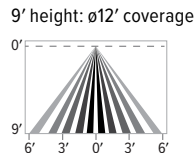
## ATHENA CONTROL OPTIONS

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

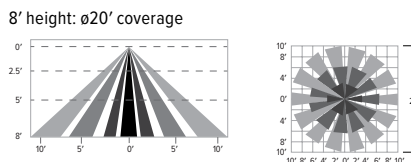
## VIVE CONTROL OPTIONS

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

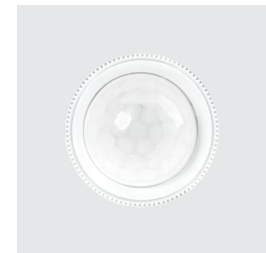
**OCCWS-FS-305-L6-PP-120/277** Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

### SENSOR COVERAGE PATTERNS



### SENSOR DETAIL



Dimensions: ø1-5/16"



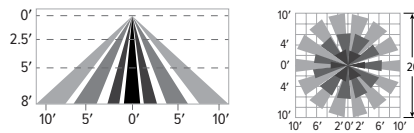
# MX4<sup>LED</sup> 4" Continuous – Suspended

OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

## SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



## SENSOR DETAIL



Dimensions: ø1-5/16"

## 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 without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
DIM1	1% driver with external dimming wires 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, without external dimming wires
DSR	Sensor-ready driver without external dimming wires (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

