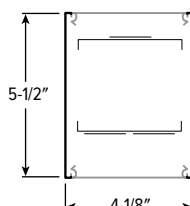
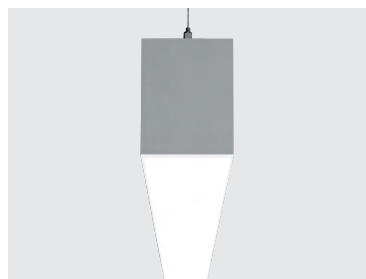


# MX4UD<sup>LED</sup> 4" Continuous Up/Down – Suspended



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 119 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Attractive source of direct and indirect lighting
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see [hew.com](http://hew.com)
- 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
- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- 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.
- **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.
  - 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: MX4UD - 12'00 - L8/835U/L8/835D - A/F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

### SERIES ILLUMINATED LENGTH

**MX4UD** 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>[1]</sup>



### LUMEN PACKAGE (EXAMPLE: L8/835U/L8/835D)

Specify lumen packages: **U** for Uplight and **D** for Downlight

LUMENS <sup>[4]</sup>	CRI	CCT	U or D
<b>L8</b> 800lm	<b>8</b> 80	<b>27</b> 2700K	<b>U</b> Uplight
<b>L12</b> 1200lm	<b>9</b> 90 <sup>[5]</sup>	<b>30</b> 3000K	<b>D</b> Downlight
<b>L15</b> 1500lm		<b>35</b> 3500K	
		<b>40</b> 4000K	
		<b>50</b> 5000K	

### SHIELDING UP

**A** Flat, semi-diffuse acrylic  
**F** Flat, diffuse acrylic<sup>[2]</sup>

### SHIELDING DOWN

**F** Flat, diffuse acrylic  
**P** Proud, diffuse acrylic with 5/16" drop<sup>[3]</sup>

### MOUNTING (EXAMPLE: AC/D48)<sup>[6]</sup>

Prefix	Type	Length
<b>AC/</b>	<b>D</b> 1" grid & hardpan	<b>24</b> 24"
	<b>N</b> 9/16" grid	<b>48</b> 48"
	<b>S</b> Slot grid	<b>96</b> 96"

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

See page 3 for **FINISH OPTIONS**.

<b>EM/10WRM</b>	Remote mount 10-watt emergency battery <sup>[8]</sup>
<b>ASYD</b>	Downlight asymmetric distribution <sup>[9]</sup>
<b>ASYU</b>	Uplight asymmetric distribution <sup>[10]</sup>
<b>ASYUD</b>	Up and down light asymmetric distribution <sup>[11]</sup>
<b>(L___)</b>	Additional lower lumen packages available <sup>[12]</sup>
Example: 600 lumens = MX4UD-12'00-L8/835U/L8/835D-(L6U/L6D)	

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

See page 6 for **ADDITIONAL CONTROL OPTIONS**.

–	None
<b>AVI-LVFA</b>	Avi-on wireless fixture control <sup>[14]</sup>
<b>AVI-LVFA-CS2-PIR</b>	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[15]</sup>
<b>AWNRR</b>	Lutron Athena wireless node integral fixture control, RF only <sup>[16]</sup>
<b>AWNS</b>	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[17]</sup>

### DRIVER

See page 4 for **ADDITIONAL DRIVER OPTIONS**.

<b>DIM</b>	Driver with external dimming wires. Up and down switch and dim together
<b>DA</b>	Driver with 12V auxiliary power without external dimming wires. Up and down switch together <sup>[18]</sup>
<b>DSR</b>	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together <sup>[19]</sup>

### VOLTAGE

<b>120</b>	<b>120V</b>
<b>277</b>	<b>277V</b>
<b>UNV</b>	<b>120-277V</b>
<b>347</b>	<b>347V</b> <sup>[20]</sup>

## NOTES

- See page 3 for **CORNER DETAILS**.
- Recommended for use in applications where fixture will be viewed from above. Decreases lumen output.
- See page 3 for **SHIELDING DETAILS**. Not available with corner configurations. Lumens per foot output based on A Shielding Up and F Shielding Down, 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.
- See page 3 for **MOUNTING DETAILS**.
- See Technical Info for **Power Entry** details.
- See page 3 for **MOUNTING DETAILS**.
- Available with A and F shielding only. Creates uneven lens illumination. See page 3 for **CROSS SECTIONS**.
- Available with A and F shielding only. Creates uneven lens illumination. See page 3 for **CROSS SECTIONS**.
- Available with A and F shielding only. Creates uneven lens illumination. See page 3 for **CROSS SECTIONS**.
- (L4U/L4D) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Sensor 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**.
- 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, control sensors, DA, or DSR Drivers.



# MX4UD<sup>LED</sup> 4" Continuous Up/Down – Suspended

## FIXTURE PERFORMANCE DATA

	PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L8	1683	14.2	119
L12	2370	21.9	108
L15	2885	27.6	105

- Photometrics tested in accordance with IESNA LM-79. Results based on Results based on A Shielding Up and F Shielding Down, 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.

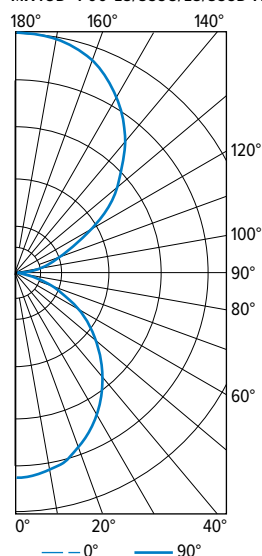
## MULTIPLIER TABLES

	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	0.82
	3000K	0.83
	3500K	0.84
	4000K	0.86
	5000K	0.90

ASY OPTION	
WATTAGE	EFFICACY (lm/W)
1.02	0.98

## PHOTOMETRY

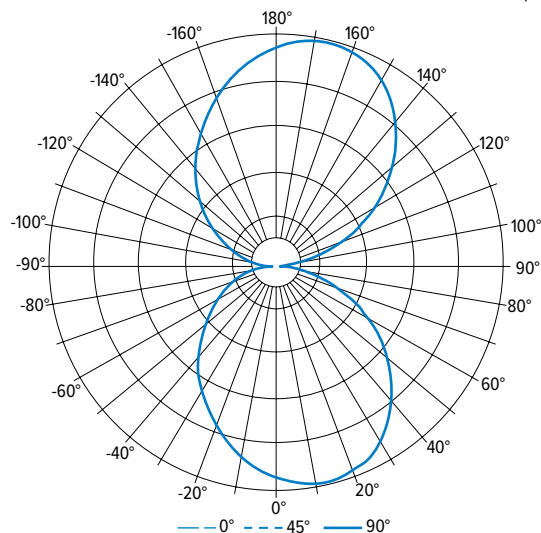
**MX4UD-4'00-L8/835U/L8/835D-A/F-DIM** Total Luminaire Output: 6732 lumens; 56.8 Watts | Efficacy: 119 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1155	1155	1155	1155	1155	
5	1175	1163	1135	1133	1145	109
15	1123	1113	1091	1075	1081	309
25	1026	1018	984	974	974	457
35	879	873	847	829	821	531
45	708	706	682	666	634	526
55	533	521	497	489	483	449
65	338	330	318	312	312	318
75	161	153	145	149	141	161
85	28	24	18	22	24	36
90	6	6	12	6	6	
95	58	68	70	62	56	71
105	201	217	219	197	173	222
115	400	427	447	394	360	411
125	654	676	696	638	596	594
135	938	948	950	905	861	712
145	1149	1153	1161	1109	1085	711
155	1302	1306	1312	1270	1246	595
165	1380	1384	1398	1360	1344	388
175	1396	1403	1429	1390	1370	133
180	1398	1398	1398	1398	1398	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	875	13
	0 - 40	1406	21
	0 - 60	2380	35
	0 - 90	2894	43
	90 - 120	704	11
	90 - 130	1298	19
	90 - 150	2721	40
	90 - 180	3838	57
	0 - 180	6732	100

**MX4UD-4'00-L8/835U/L8/835D-ASYUD-DIM-UNV** Total Luminaire Output: 6501 lumens; 58.4 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT



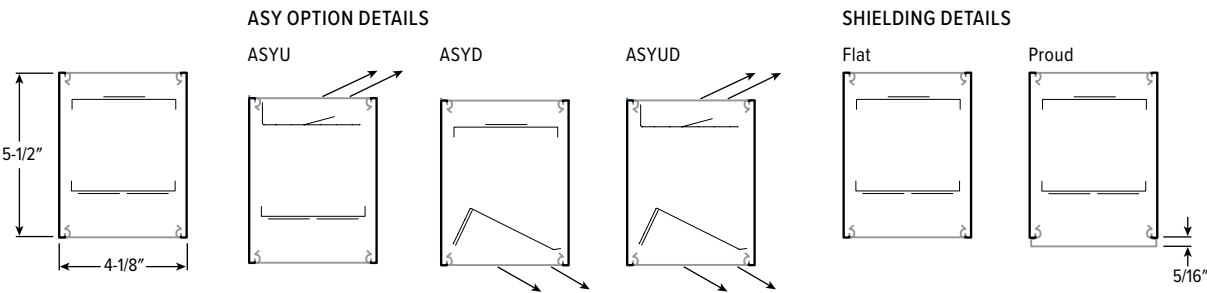
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1153	1153	1153	1153	1153	
5	1149	1175	1188	1175	1149	109
15	1101	1185	1221	1185	1101	311
25	1011	1135	1187	1135	1011	468
35	881	1024	1083	1024	881	556
45	726	868	922	868	726	566
55	560	684	730	684	560	507
65	384	481	516	481	384	387
75	203	275	300	275	203	227
85	50	86	100	86	50	68
90	5	26	39	26	5	
95	51	89	103	89	51	71
105	210	284	310	284	210	234
115	397	497	533	497	397	400
125	578	706	754	706	578	524
135	750	897	952	897	750	584
145	910	1057	1118	1057	910	574
155	1044	1172	1226	1172	1044	483
165	1137	1223	1260	1223	1137	321
175	1186	1213	1226	1213	1186	112
180	1189	1189	1189	1189	1189	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	887	14
	0 - 40	1443	22
	0 - 60	2516	39
	0 - 90	3198	49
	90 - 120	704	11
	90 - 130	1228	19
	90 - 150	2386	37
	90 - 180	3302	51
	0 - 180	6501	100



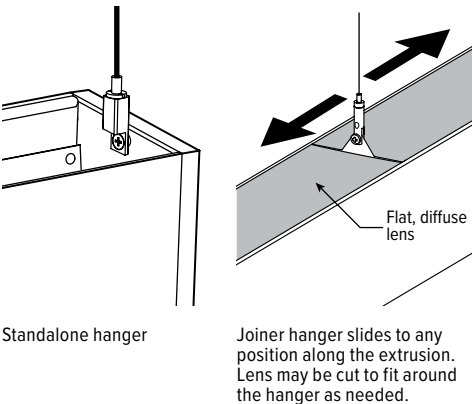
# MX4UD<sup>LED</sup> 4" Continuous Up/Down – Suspended

## CROSS SECTIONS

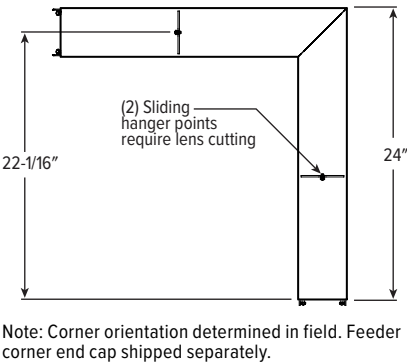


## MOUNTING DETAILS

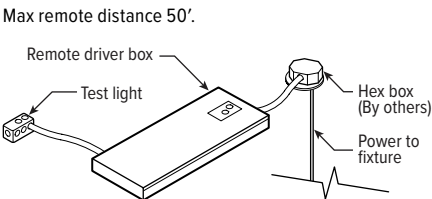
### INDIRECT HANGER DETAILS



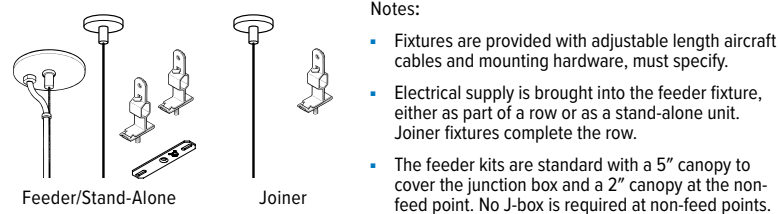
### CORNER DETAILS



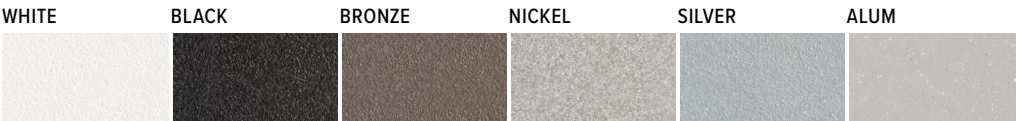
### REMOTE MOUNT BATTERY



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



## 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.



# MX4UD<sup>LED</sup>

## 4" Continuous Up/Down – Suspended

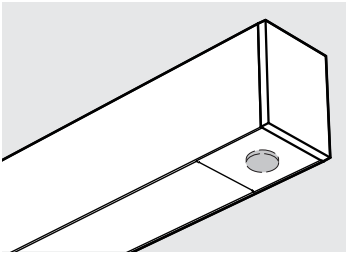
### ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

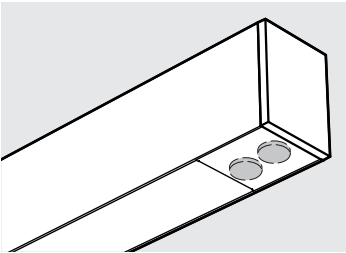
CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications; entire fixture switches together
DIM	Dimming driver prewired for 0-10V low voltage applications; entire fixture switches and dims together
DRVU/DRVD	Driver prewired for non-dimming applications; up and down portions switch separately
DRVU/DIMD	Driver prewired for non-dimming applications; up and down portions switch separately; 0-10V on down portion only
DIMU/DRVD	Up and down portions switch separately; dimming driver prewired for 0-10V low voltage applications on up portion only
DIMU/DIMD	Dimming driver prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DRVDIMU	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on up portion only
DRVDIMD	Entire fixture switches together; dimming driver prewired for 0-10V low voltage applications on down portion only
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)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVD	Up and down portions switch separately; line voltage dimming on up portion only
DRVU/DIM LINED	Up and down portions switch separately; line voltage dimming on down portion only
DA	Driver with 12V auxiliary power without external dimming wires. Up and down switch together.
DA-U/D	Driver with 12V auxiliary power without external dimming wires. Up and down switch separately.
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together.
DSR-U/D	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch separately.

### SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | WS-FS | WS-LMFS



AWNRR | AWNS



SEE NEXT PAGE FOR CONTROL DETAILS



# MX4UD LED

4" Continuous Up/Down – Suspended

## 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

#### Secure

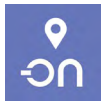
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### 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

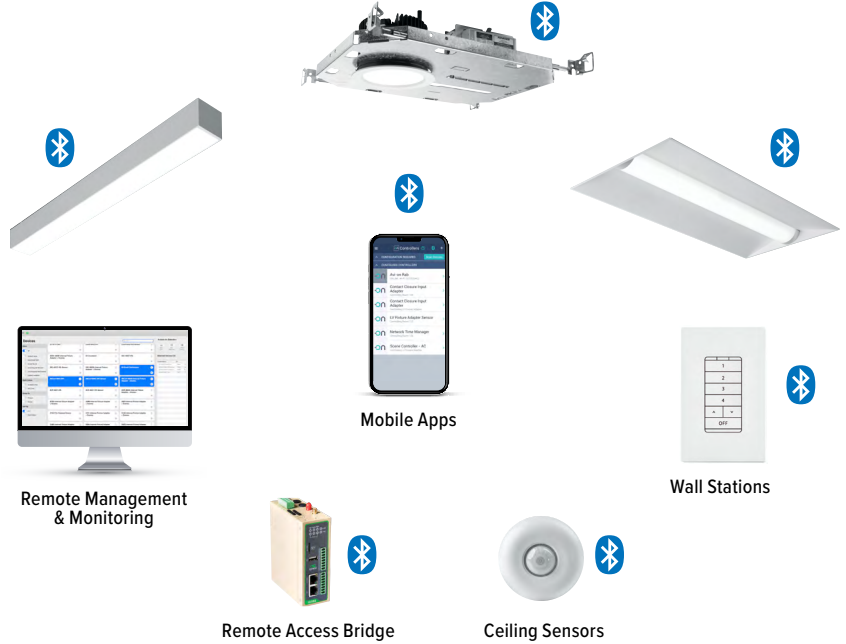


Zone Scanner  
Web App



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)

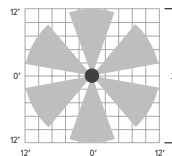
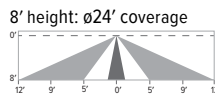
### AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

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



### SENSOR DETAIL



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



# MX4UD<sup>LED</sup> 4" Continuous Up/Down – Suspended

## ADDITIONAL CONTROL OPTIONS

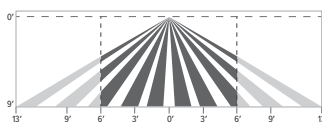
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

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"

## ATHENA CONTROL OPTIONS

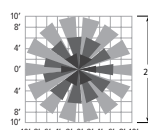
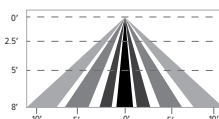
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

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

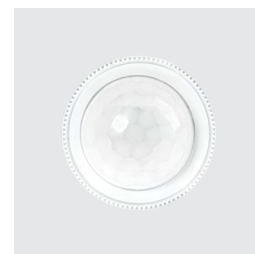
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

### SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



### SENSOR DETAIL



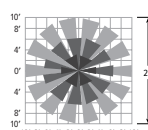
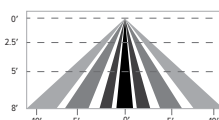
Dimensions: ø1-5/16"

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

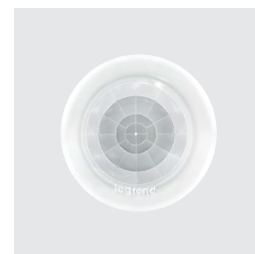
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

### SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



### SENSOR DETAIL



Dimensions: ø1-5/16"

