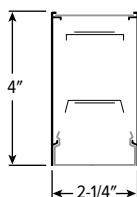
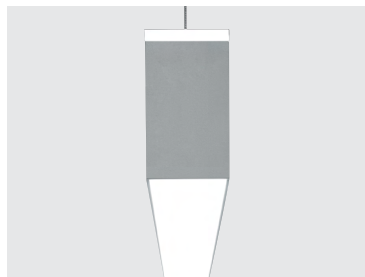


MX2UD^{LED} 2" Continuous Up/Down – Suspended



CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Attractive source of direct and indirect lighting
- Create elegant spaces with a seamless, continuous row of illumination
- Specify in one inch increments to create a perfect fit
- Flat, glowing edge, drop and regressed lenses give designers a variety of looks
- Widespread optic allows for increased luminaire spacing while enhancing ceiling uniformity
- Asymmetric optic directs light for targeted illumination
- Moveable mounting hardware easily slides along the length of the fixture providing variable mounting points for continuous rows
- High-performance up to 126 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Factory installed row alignment system creates straight rows with ease
- Versatile MX2 system includes recessed, surface, suspended and in-wall mounting, see hew.com/MX2
- Corner configurations available, see Product Builder at hew.com/product-builder
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – Extruded aluminum with die-cast end plates.
- SHIELDING** – Extruded 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. Reported L70: >54,000 hours. Reported L90: 52,000 hours. Estimated L70: 170,000 hours. 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
- WARRANTY** – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: MX2UD - 12'00 - L8/835U/L8/835D - F/F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

SERIES ILLUMINATED LENGTH^[1]

MX2UD Lengths specified in feet and inches using 1" 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^[3]



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

Specify lumen packages: U for Up and D for Down

	LUMENS ^[2]	CRI	CCT	U or D
L4	400lm	80	27 2700K	U Uplight
L8	800lm	90	30 3000K	D Downlight
L12	1200lm		35 3500K	
			40 4000K	
			50 5000K	

SHIELDING UP

- F Flat
- FW Flat with widespread, batwing optic
- FA Flat with asymmetric optic
- G Glowing edge lens, 3/8"^[5]

SHIELDING DOWN

- F Flat
- FW Flat with widespread, batwing optic
- FA Flat with asymmetric optic
- G Glowing edge lens, 3/8"^[6]
- D Drop lens, 1"^[7]
- R Regressed lens, 1"^[8]

MOUNTING (EXAMPLE: AC/D48)^[4]

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

MSF_ Microstem, 1/4" IPS, specify length in inches^[21]

OPTIONS^[9]

See page 4 for FINISH OPTIONS.

- EM/10WLP Low-profile 10-watt emergency battery^[11]
- EM/10WRM Remote mount 10-watt emergency battery
- EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch
- (L__) Additional lower lumen packages available^[12]
Example: 600 lumens = MX2UD-12'00-L8/835U/L8/835D-(L6U/L6D)
- GEN Approved for UL 924 emergency generator circuit through-feed wiring^[13]

CONTROL^[10]

See page 6 for ADDITIONAL CONTROL OPTIONS.

- None
- AVI-LVFA Avi-on wireless fixture control^[14]
- AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor^[15]
- AWN R Lutron Athena wireless node integral fixture control, RF only^[16]
- AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing^[17]

DRIVER

See page 7 for ADDITIONAL DRIVER OPTIONS.

- DIM Driver with external 0-10V dimming wires. Up and down switch and dim together
- DA Driver with 12V auxiliary power without external dimming wires. Up and down switch together^[18]
- DSR Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together^[19]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V ^[20]

NOTES

- Endcaps add 1/4" to overall specified length.
- Lumens per foot output based on F Shielding, 80 CRI/3500K CCT. Actual performance may vary ± 5%. 2000 lumens per foot maximum. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- See page 4 for CORNER DETAILS.
- See page 3 for FIXTURE DETAILS.
- Not available with corner configurations
- Not available with corner configurations
- Not available with corner configurations
- Not available with corner configurations
- 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 3 for REMOTE MOUNT BATTERY DETAILS.
- Sensors not available in fixtures less than 48". Sensor recommended for use in downlight orientation only. Reduces portion of lit fixture, consult factory. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR & NODE PLACEMENT DETAILS.
- Not available with fixture less than 4', maximum combined lumens cannot exceed 1600 per foot.
- (L3U/L3D) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Downlight orientation only. Maximum mounting height is 20.5' (6.2 m). Minimum lumen output is 400 lm/ft. See 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 Athena Controls only.
- Not available with EM batteries, control sensors, DA, or DSR Drivers.
- Power cord does not run through microstem.



MX2UD^{LED} 2" Continuous Up/Down – Suspended

FIXTURE PERFORMANCE DATA

	PER FOOT (2000 LUMENS PER FOOT MAXIMUM)				
	DELIVERED LUMENS			TOTAL WATTAGE	EFFICACY (lm/W)
	UP	DOWN	TOTAL		
L4/835U/L4/835D	417	376	793	6.8	117
L4/835U/L8/835D	417	752	1168	10.1	116
L8/835U/L4/835D	834	376	1210	10.1	120
L8/835U/L8/835D	834	752	1585	13.4	118
L8/835U/L12/835D	834	1127	1961	16.2	121
L4/835U/L12/835D	417	1127	1544	13.5	114
L12/835U/L4/835D	1251	376	1627	13.5	121
L12/835U/L8/835D	1251	752	2002	15.9	126

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding for Up and Down compartments, 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.

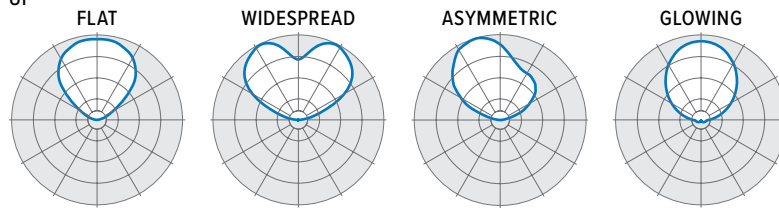
MULTIPLIER TABLES

	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

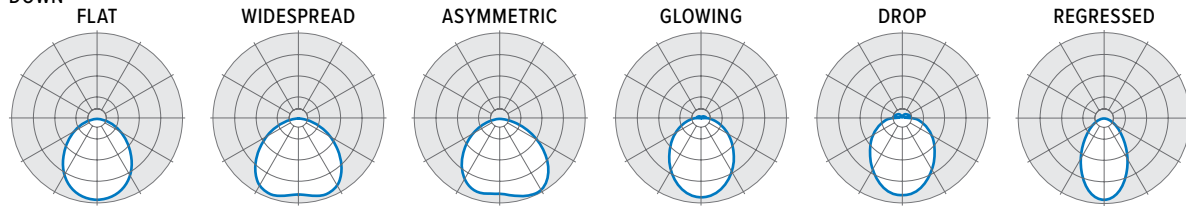
SHIELDING	
LENS	CONVERSION FACTOR
F	1.00
FW	0.92
FA (Up)	0.96
FA (Down)	0.82
G	0.98
D	1.05
R	0.91

PHOTOMETRY

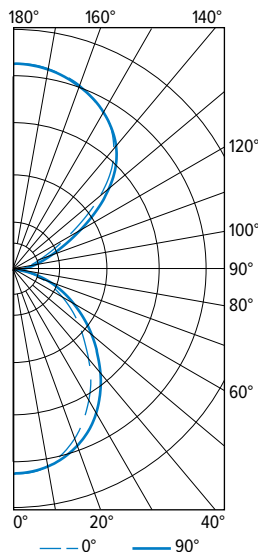
UP



DOWN



MX2UD-4'00-L8/835U/L8/835D-A/F-DIM Total Luminaire Output: 6341 lumens; 53.6 Watts | Efficacy: 118 lm/W | 80 CRI; 3500K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
CANDLEPOWER DISTRIBUTION	0	1354	1354	1354	
	5	1343	1344	1348	128
	15	1277	1268	1246	357
	25	1147	1110	1063	511
	35	954	899	845	563
	45	734	672	615	522
	55	523	476	431	428
	65	336	303	274	303
	75	168	155	143	166
	85	40	44	45	50
	90	2	5	4	
	95	44	30	25	37
	105	147	112	98	127
	115	306	258	214	262
	125	585	538	470	477
	135	892	861	836	661
	145	1097	1090	1087	681
	155	1228	1230	1224	567
	165	1314	1319	1321	373
	175	1362	1358	1367	130
	180	1367	1367	1367	

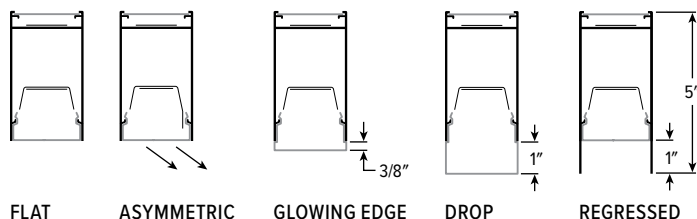
	LUMEN SUMMARY		
	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	996	16
	0 - 40	1559	25
	0 - 60	2509	40
	0 - 90	3027	48
	90 - 120	426	7
	90 - 130	903	14
	90 - 150	2246	35
	90 - 180	3150	50
	0 - 180	6341	100



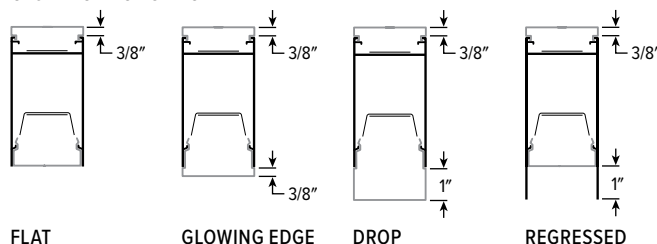
MX2UD^{LED} 2" Continuous Up/Down – Suspended

SHIELDING DETAILS

FLAT UPLIGHT



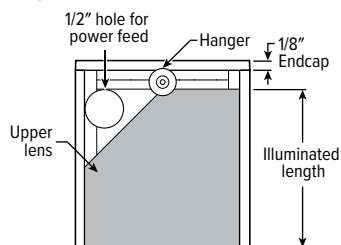
GLOWING EDGE UPLIGHT



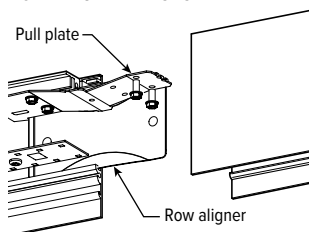
FIXTURE DETAILS

Stand-alone fixtures up to 12' in length will require two suspension cables. See hew.com/power-entry for power entry details.

BACK VIEW



ROW ALIGNMENT SYSTEM

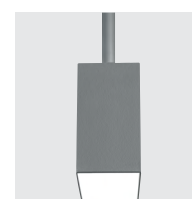


Installer friendly row aligners ensure seamless joining between fixtures while factory installed pull plate locks extrusions in place without disassembly of fixture internals.

AIRCRAFT CABLE

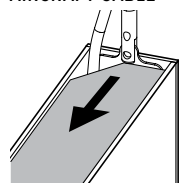


MICROSTEM

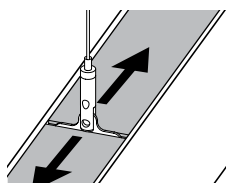


Power cord does not run through microstem.

AIRCRAFT CABLE

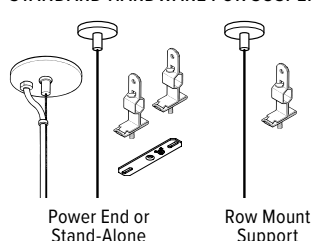


Field-adjustable standalone hanger.



Joiner hanger slides to any position along extrusion. Lens may be cut to fit hanger.

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.

REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



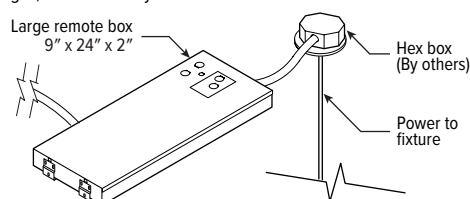
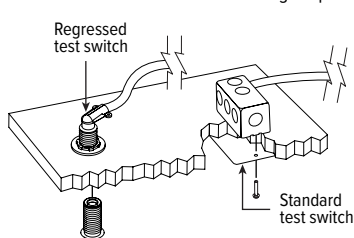
Regressed test switch
ø1-3/4"

EM/10WRM



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

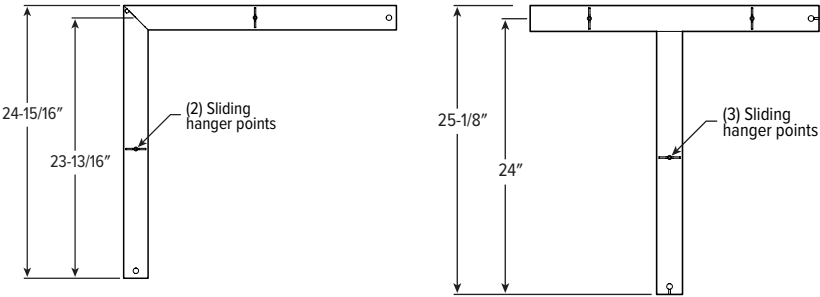
Max remote distance is 50' including suspension length, connection by others.



MX2UD^{LED} 2" Continuous Up/Down – Suspended

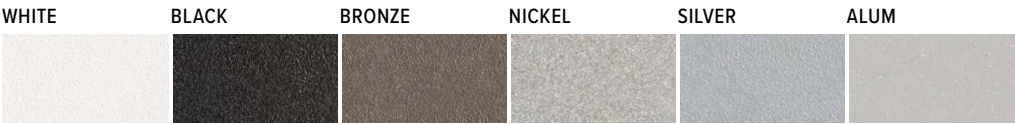
CORNER DETAILS

BACK VIEW



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

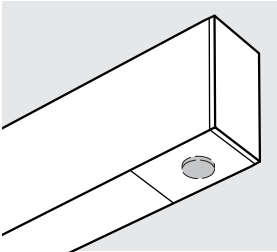
FINISH OPTIONS



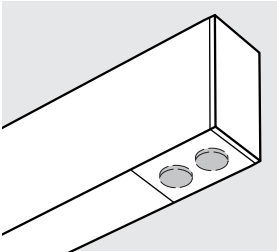
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR & NODE PLACEMENT DETAILS

AVI-LVFA | WS-FS | WS-LMFS



AWNRR | AWNS



MX2UD^{LED} 2" Continuous Up/Down – 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

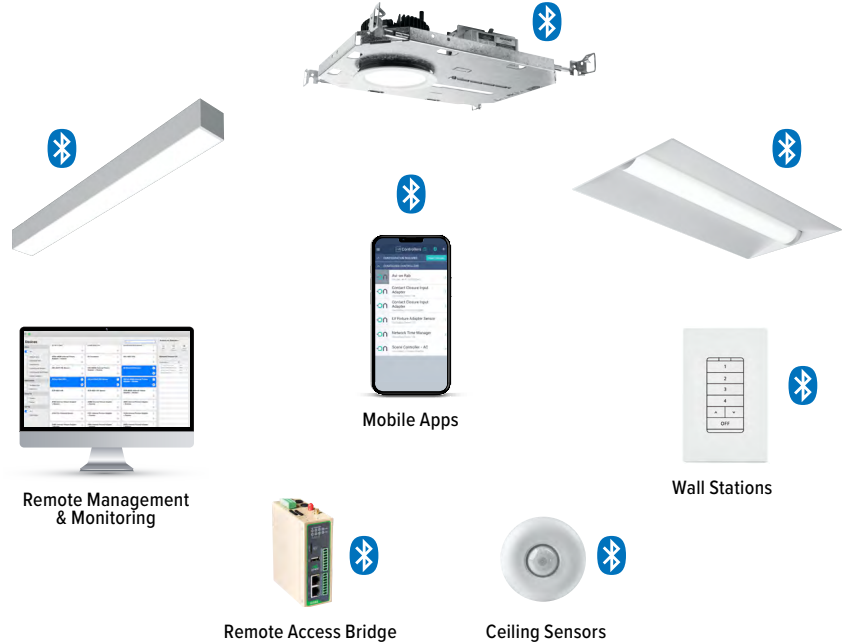


Zone Scanner Web App



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

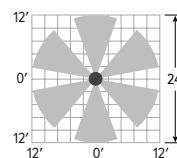
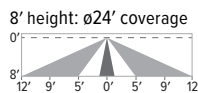
For load controllers and additional accessory info, see hew.com/avi-on

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"



MX2UD^{LED} 2" Continuous Up/Down – Suspended

ADDITIONAL CONTROL OPTIONS

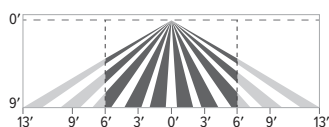
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

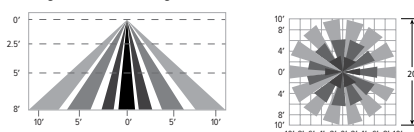
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

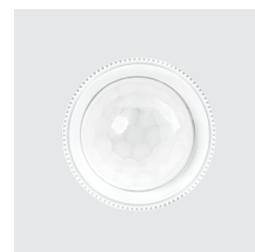
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



SENSOR DETAIL



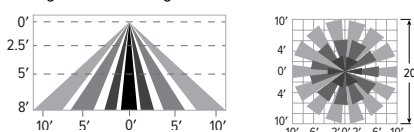
Dimensions: ø1-5/16"

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

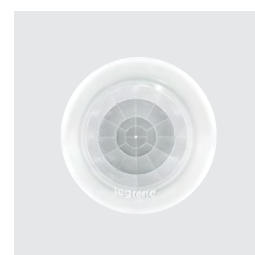
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 12'
LENS	Up to 300 sq/ft coverage
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 50°C
RELATIVE HUMIDITY	0 to 90%, non-condensing
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



SENSOR DETAIL



Dimensions: ø1-5/16"



MX2UD^{LED} 2" Continuous Up/Down – Suspended

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications; entire fixture switches and dims together
DRVU/DIMD	Driver without external dimming wires prewired for non-dimming applications; up and down portions switch separately; 0-10V on down portion only ^[2]
DIMU/DRVU	Up and down portions switch separately; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only ^{[1] [2]}
DIMU/DIMD	Driver with external dimming wires prewired for 0-10V low voltage applications; up and down portions switch and dim separately ^[2]
DRVU/DIMU	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only ^[2]
DRVU/DIMD	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on down portion only ^[2]
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)
DIM LINEU/DIM LINED	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVU	Up and down portions switch separately; line voltage dimming on up portion only ^[1]
DRVU/DIM LINED	Up and down portions switch separately; line voltage dimming on down portion only ^[1]
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.

¹ Length restrictions may apply, consult factory.

² Not available with L4U/L4D lumen package in fixtures less than 36" long.

