MX2 LED
2″ Continuous – Suspended

Williams

MX2D   MX2U

4″
2-1/4″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT   UL 924

FEATURES

- 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 125 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: MX2D - 12'00 - L8/835 - F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

SERIES
MX2D Down
MX2U Up

ILLUMINATED LENGTH [1]
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 [2]

LUMENS [3]	CRI	CCT	SHIELDING
L4 400lm	8 80	27 2700K	F Flat
L8 800lm	9 90	30 3000K	FW Flat with widespread, batwing optic
L12 1200lm		35 3500K	FA Flat with asymmetric optic
		40 4000K	G Glowing edge lens, 3/8″ [5]
		50 5000K	D Drop lens, 1″ [6]
			R Regressed lens, 1″ [7]

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 [8]	

OPTIONS [9]
See page 3 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 = MX2D-12'00-L8/835-(L6)
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]
AWNR	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
DA	Driver with 12V auxiliary power, without external dimming wires [18]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) [19]

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

NOTES

1. Endcaps add 1/4″ to overall specified length.
2. See page 3 for CORNER DETAILS.
3. 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.
4. See page 3 for MOUNTING DETAILS.
5. Not available with corner configurations.
6. MX2D only. Not available with corner configurations.
7. Not available with corner configurations. Increases fixture height. See page 2 for SHIELDING DETAILS.
8. Power cord does not run through microstem.
9. 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.
10. 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.
11. Not available with fixtures less than 4′.
12. (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
13. MX2D only. Maximum mounting height is 20.5′ (6.2 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
14. DA Driver only.
15. DA Driver only.
16. DA and DSR Drivers only.
17. DA and DSR Drivers only.
18. Avi-on and Lutron Athena Controls only.
19. Lutron Vive and Athena Controls only.
20. Not available with EM batteries, control sensors, DA, or DSR Drivers.

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FIXTURE PERFORMANCE DATA

	DOWN (PER FOOT)			UP (PER FOOT)		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L4	375.8	3.4	111	416.9	3.4	123
L8	751.5	6.7	112	833.8	6.7	124
L12	1127.3	10.1	112	1250.8	10.1	124

- 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.
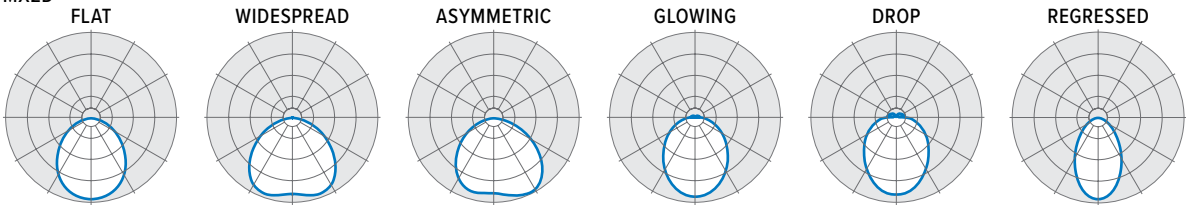- Use multiplier table to calculate additional options.

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 (MX2U)	0.96
FA (MX2D)	0.82
G	0.98
D	1.05
R	0.91

PHOTOMETRY

MX2D

FLAT · WIDESPREAD · ASYMMETRIC · GLOWING · DROP · REGRESSED
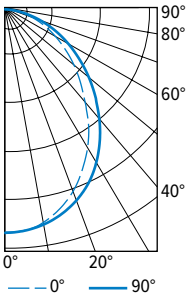

MX2U

FLAT · WIDESPREAD · ASYMMETRIC · GLOWING
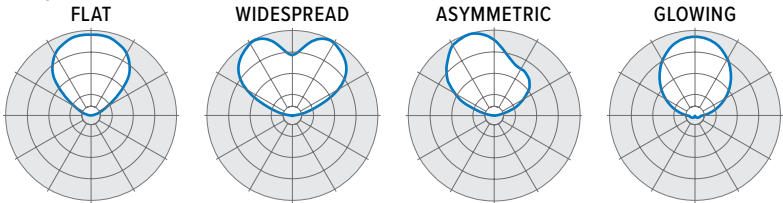
MX2D-4'00-L8/835-F-DIM Total Luminaire Output: 3006 lumens; 27 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1329	1329	1329	
5	1319	1319	1318	125
15	1258	1246	1225	351
25	1134	1095	1050	405
35	945	888	836	557
45	730	668	613	519
55	523	475	430	428
65	338	304	276	304
75	171	157	145	168
85	42	45	46	50
90	1	4	5	

ZONE	LUMENS	% FIXTURE
0 - 30	981	33
0 - 40	1537	51
0 - 60	2484	83
0 - 90	3006	100
0 - 180	3006	100

SHIELDING DETAILS

MX2D

FLAT · ASYMMETRIC · GLOWING EDGE · DROP · REGRESSED

MX2U

FLAT · ASYMMETRIC · GLOWING EDGE

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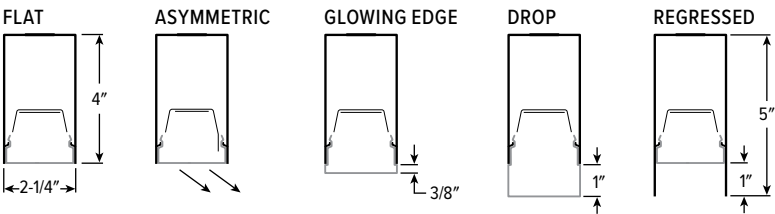
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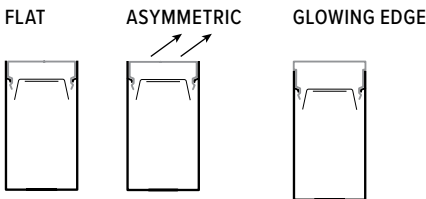
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CORNER DETAILS

BACK VIEW

24-15/16″
23-13/16″
(2) Sliding hanger points

25-1/8″
24″
(3) Sliding hanger points

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

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.
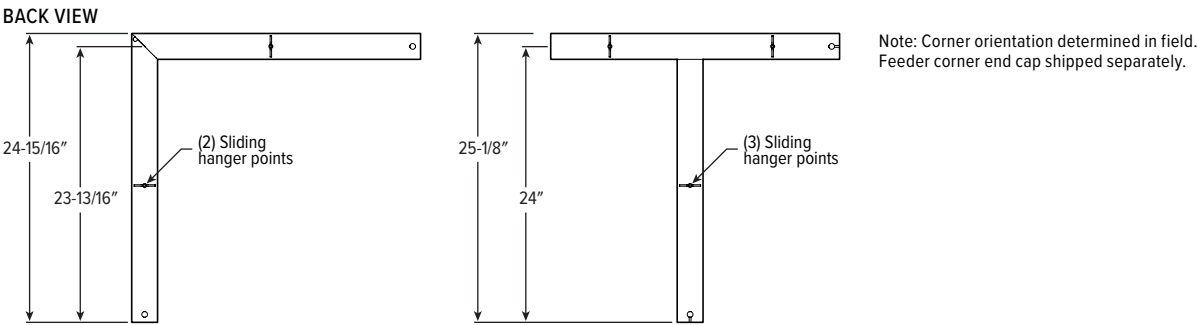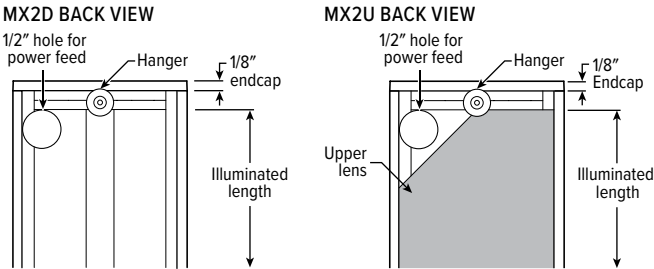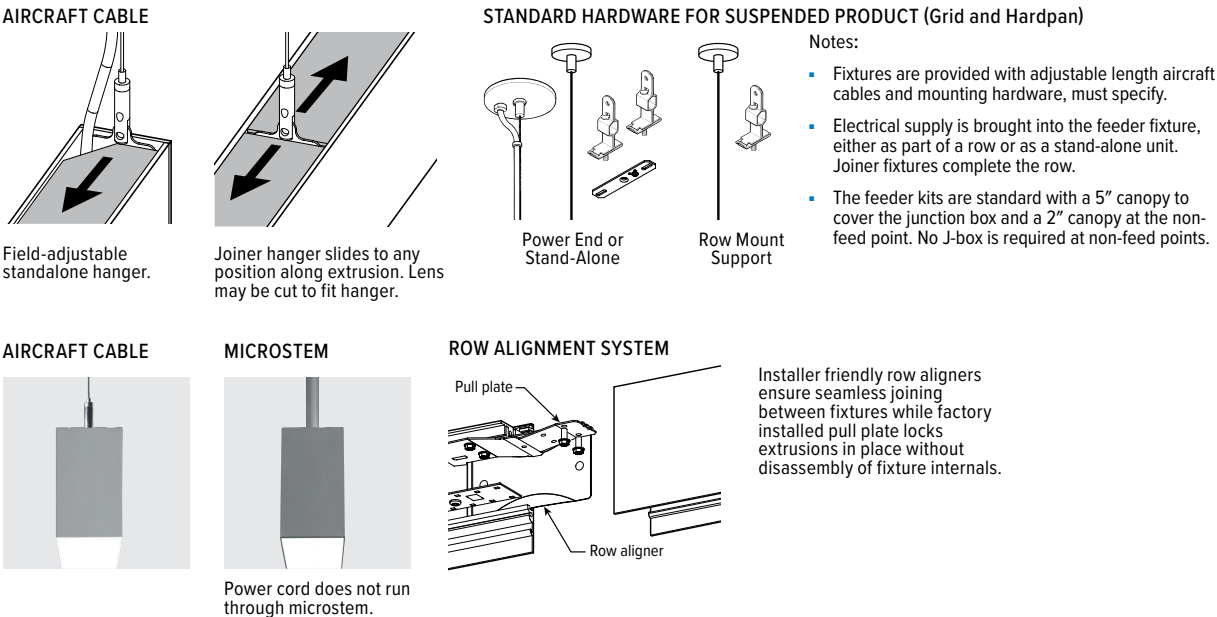
FIXTURE DETAILS

Stand-alone fixtures up to 12′ in length will require two suspension cables. See hew.com/power-entry for power entry details.
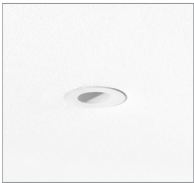
MX2D BACK VIEW
1/2″ hole for power feed
Hanger
1/8″ endcap
Illuminated length

MX2U BACK VIEW
1/2″ hole for power feed
Hanger
1/8″ Endcap
Upper lens
Illuminated length

MOUNTING DETAILS

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)

Power End or Stand-Alone

Row Mount Support

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.

AIRCRAFT CABLE

MICROSTEM

Power cord does not run through microstem.

ROW ALIGNMENT SYSTEM

Pull plate

Row aligner

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

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REMOTE MOUNT BATTERY DETAILS
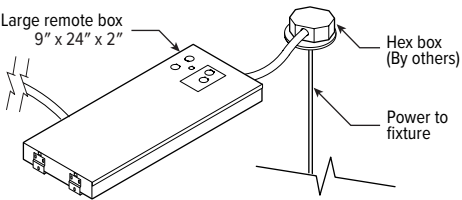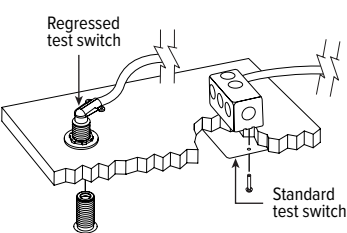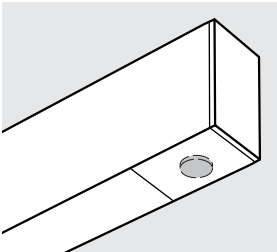
EM/10WRM/RTS

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.

Regressed
test switch

Standard
test switch

Large remote box
9″ x 24″ x 2″

Hex box
(By others)

Power to
fixture

SENSOR & NODE PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS.

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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.
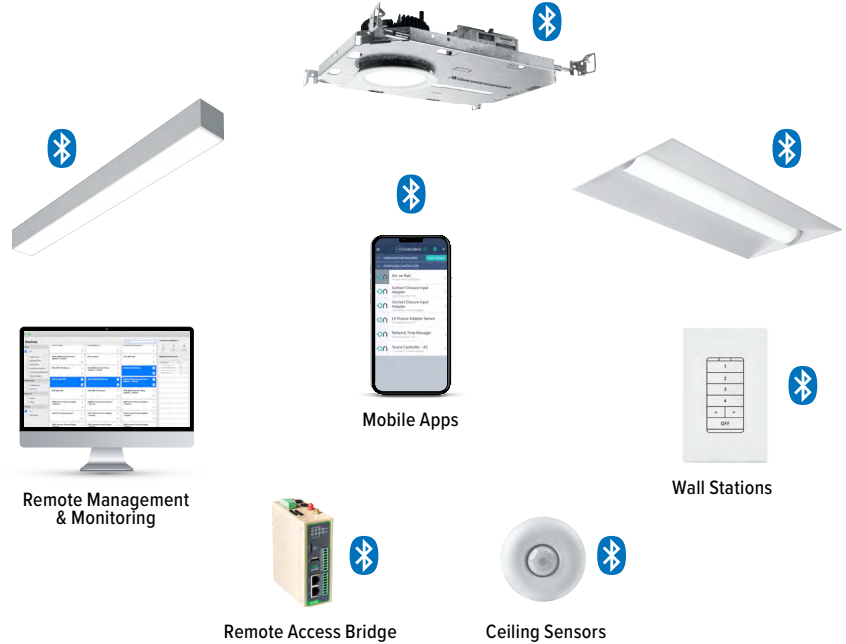
Commissioning Mobile App	Zone Scanner Web App	Commissioning Pro App

SYSTEM COMPONENTS

Mobile Apps

Remote Management & Monitoring

Wall Stations

Remote Access Bridge

Ceiling Sensors

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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

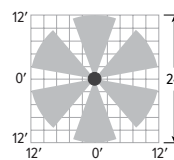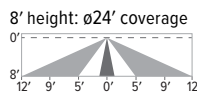| CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

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

8' height: ø24' coverage

SENSOR DETAIL

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

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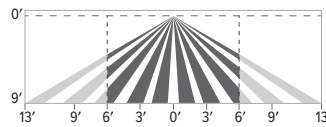## 2″ Continuous – Suspended

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
	☀️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

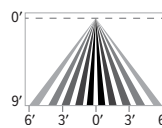| CATALOG NUMBER	DESCRIPTION
AWNR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

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

9′ height: ø12′ coverage

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″
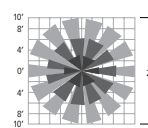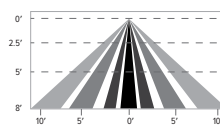
VIVE CONTROL OPTIONS

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

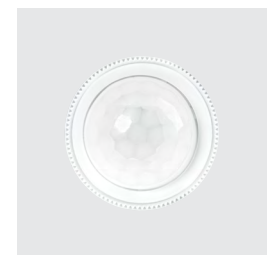**OCCWS-FS-305-L6-PP-120/277** Wattstopper PIR motion and daylight hold off sensor with power pack, 120/277V

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

8′ height: ø20′ coverage

SENSOR DETAIL

Dimensions: ø1-5/16″

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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
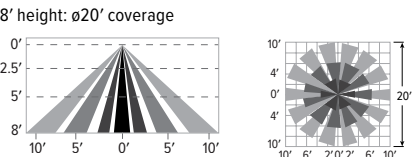
SENSOR DETAIL

Dimensions: ø1-5/16″

ADDITIONAL DRIVER OPTIONS

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

CATALOG NUMBER	DESCRIPTION
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

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