

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

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

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



### 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
- High-performance up to 115 lm/W
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Versatile MX2 system includes recessed, surface, suspended and in-wall mounting, see [hew.com/MX2](http://hew.com/MX2)
- Factory installed row alignment system creates straight rows with ease
- 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

### ORDERING EXAMPLE: MX2S - 12'00 - L8/835 - F - OPTIONS - CONTROL/DIM - UNV

**SERIES** ILLUMINATED LENGTH <sup>[1]</sup>  
**MX2S** 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](http://hew.com/product-builder) <sup>[2]</sup>



LUMENS <sup>[3]</sup>	CRI	CCT	SHIELDING <sup>[4]</sup>	OPTIONS <sup>[5]</sup>
L4 400lm	8 80	27 2700K	F Flat	See page 3 for FINISH OPTIONS.
L8 800lm	9 90	30 3000K	FW Flat with widespread, batwing optic	<b>EM/10WLP</b> Low-profile 10-watt emergency battery <sup>[7]</sup>
L12 1200lm		35 3500K	FA Flat with asymmetric optic	<b>EM/10WRM</b> Remote mount 10-watt emergency battery
		40 4000K	G Glowing edge lens, 3/8"	<b>EM/10WRM/RTS</b> Remote mount 10-watt emergency battery with regressed test switch
		50 5000K	D Drop lens, 1"	(L_) Additional lower lumen packages available <sup>[8]</sup> Example: 600 lumens = MX2S-12'00-L8/835-(L6)
			R Regressed lens, 1" <sup>[6]</sup>	<b>GEN</b> Approved for UL 924 emergency generator circuit through-feed wiring <sup>[9]</sup>

### 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** – Surface.
- **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).

**CONTROL** <sup>[10]</sup>  
 See page 5 for ADDITIONAL CONTROL OPTIONS.

–	None
<b>AVI-LVFA</b>	Avi-on wireless fixture control <sup>[11]</sup>
<b>AVI-LVFA-CS2-PIR</b>	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[12]</sup>
<b>AWNRR</b>	Lutron Athena wireless node integral fixture control, RF only <sup>[13]</sup>
<b>AWNS</b>	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[14]</sup>

#### NOTES

- <sup>1</sup> Endcaps add 1/4" to overall specified length.
- <sup>2</sup> See page 3 for CORNER DETAILS.
- <sup>3</sup> 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.
- <sup>4</sup> G, D, and R Shielding not available with corner configurations. See page 2 for SHIELDING DETAILS.
- <sup>5</sup> Remote EM batteries: max remote distance 50'. 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.
- <sup>6</sup> Increases fixture height.
- <sup>7</sup> Not available with fixtures less than 4'.

DRIVER	VOLTAGE
See page 6 for ADDITIONAL DRIVER OPTIONS.	<b>120</b> 120V
<b>DIM</b> Driver with external 0-10V dimming wires	<b>277</b> 277V
<b>DA</b> Driver with 12V auxiliary power, without external dimming wires <sup>[15]</sup>	<b>UNV</b> 120-277V
<b>DSR</b> Sensor-ready driver without external dimming wires (D4i DALI-2) <sup>[16]</sup>	<b>347</b> 347V <sup>[17]</sup>

- <sup>8</sup> (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- <sup>9</sup> Maximum mounting height is 20.5' (6.2 m). Minimum lumen output is 400 lm/ft. See [hew.com/UL924](http://hew.com/UL924) for details.
- <sup>10</sup> Reduces portion of lit fixture, consult factory. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- <sup>11</sup> DA Driver only.
- <sup>12</sup> DA Driver only.
- <sup>13</sup> DA and DSR Drivers only.
- <sup>14</sup> DA and DSR Drivers only.
- <sup>15</sup> Avi-on and Lutron Athena Controls only.
- <sup>16</sup> Lutron Vive and Athena Controls only.
- <sup>17</sup> Not available with EM batteries, control sensors, DA, or DSR Drivers.



# MX2S<sup>LED</sup> 2" Continuous – Surface

## FIXTURE PERFORMANCE DATA

	PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L4	387.5	3.4	114
L8	775.0	6.7	116
L12	1162.5	13.5	86

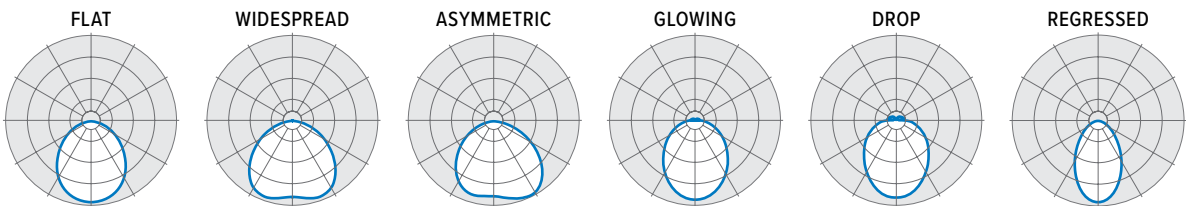
- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

### MULTIPLIER TABLES

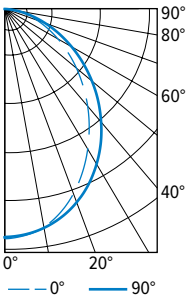
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.80
	3000K	0.82
	3500K	0.83
	4000K	0.86
	5000K	0.89

SHIELDING	
LENS	CONVERSION FACTOR
F	1.00
FW	0.92
FA	0.96
G	0.98
D	1.05
R	0.91

## PHOTOMETRY



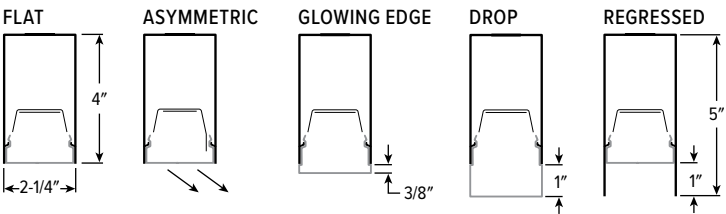
MX2S-4'00-L8/835-F-DIM Total Luminaire Output: 3100 lumens; 27 Watts | Efficacy: 115 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1370	1370	1370	
5	1358	1362	1365	129
15	1290	1278	1264	359
25	1157	1116	1077	513
35	972	912	859	571
45	763	700	645	541
55	550	496	451	446
65	351	314	284	314
75	177	162	151	174
85	44	48	48	53
90	5	10	11	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1001	32
	0 - 40	1572	51
	0 - 60	2559	83
	0 - 90	3100	100
	0 - 180	3100	100

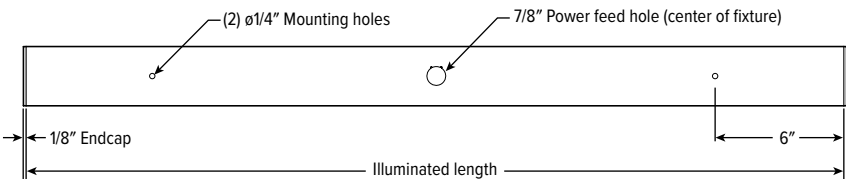
## SHIELDING DETAILS



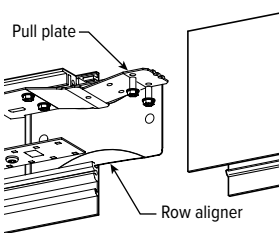
## FIXTURE DETAILS

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

### BACK VIEW



### ROW ALIGNMENT SYSTEM



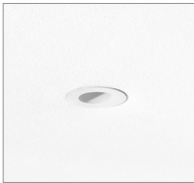
Installer friendly row aligners ensure seamless joining between fixtures while factory installed pull plate locks extrusions in place without disassembly of fixture internals.



# MX2S<sup>LED</sup> 2" Continuous – Surface

## REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



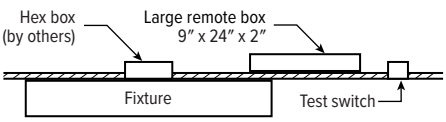
Regressed test switch  
ø1-3/4"

EM/10WRM



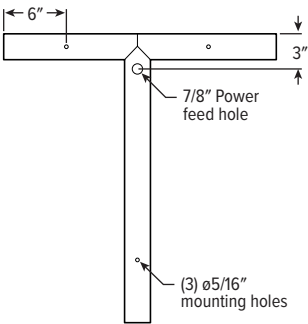
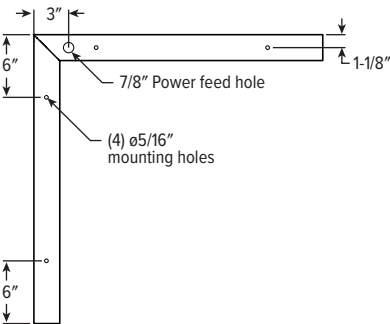
Standard test switch  
2-3/4" x 4-1/2"

Max remote distance is 50', connection by others.



## CORNER DETAILS

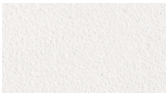
BACK VIEW



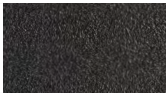
Note: Corner orientation determined in field.  
Feeder corner end cap shipped separately.

## FINISH OPTIONS

WHITE



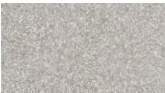
BLACK



BRONZE



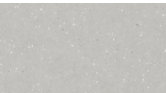
NICKEL



SILVER

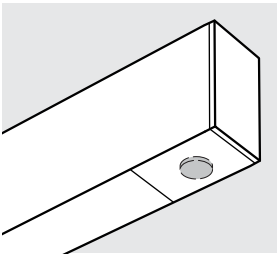


ALUM



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.

## SENSOR & NODE PLACEMENT DETAILS



# MX2S<sup>LED</sup> 2" Continuous – Surface

## 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

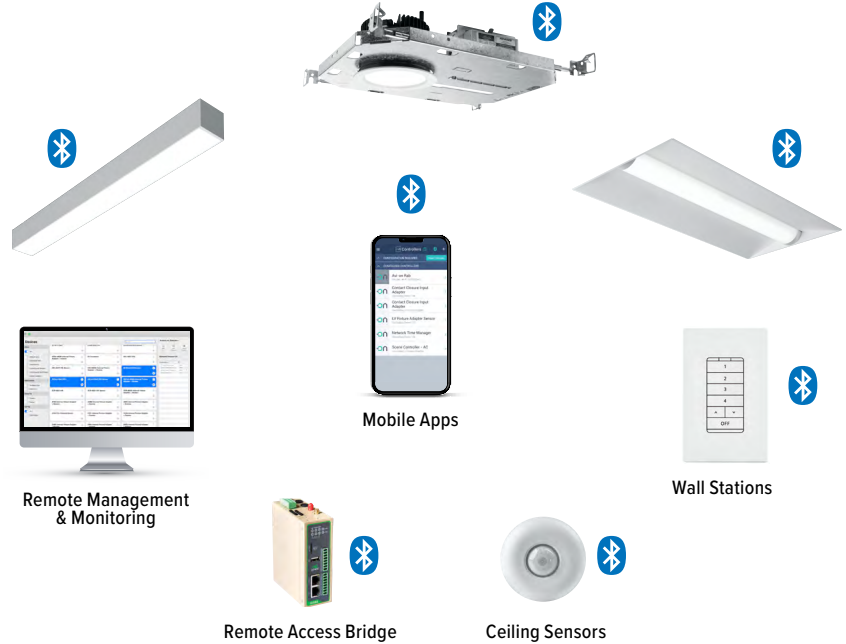


Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



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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

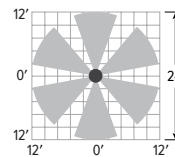
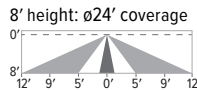
For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

### 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"



# MX2S<sup>LED</sup> 2" Continuous – Surface

## ADDITIONAL CONTROL OPTIONS

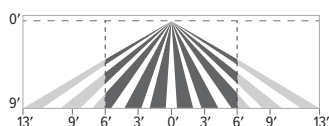
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

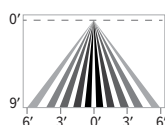
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

**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

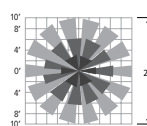
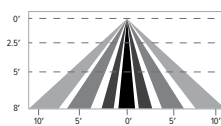
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control, 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

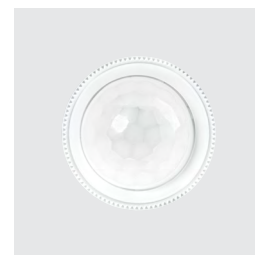
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

### SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



### SENSOR DETAIL



Dimensions: ø1-5/16"



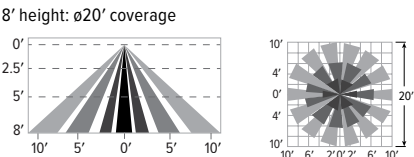
# MX2S<sup>LED</sup>

## 2" Continuous – Surface

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



### 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
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

