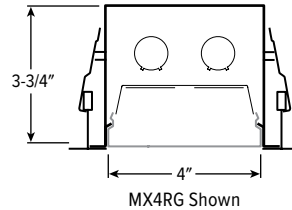
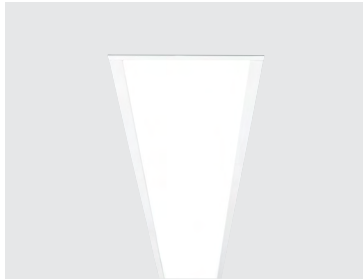


# MX4R LED

## 4" Continuous – Recessed



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

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

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



### FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Specify in one inch increments to create a perfect fit
- High-performance up to 121 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.
- SHIELDING – Extruded, flat, diffuse acrylic lens.
- FINISH – 92% minimum average reflective white polyester 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. 50/60 Hz constant current driver.
- MOUNTING – MX4RT: Drywall mount allowing for ceiling materials 1/4" - 1-1/4" thick. Fixture to be installed prior to drywall or finished ceiling material. MX4RG: NEMA Type "G" 15/16" or 1" grid standard.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option
  - 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: MX4RTR - 8'00 - L8/835 - F - OPTIONS - CONTROL/DIM - UNV

SERIES	FIXTURE STYLE	LENGTH
MX4R	TR Drywall or Hard Surface - Trim	Lengths specified in feet and inches using 1" increments, 2' minimum. Example: 8'00 = 8'-0"
	TL Drywall or Hard Surface - Trimless	
	G Grid <sup>[1]</sup>	

#### 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	OPTIONS <sup>[4]</sup>
L8 800lm	8 80	27 2700K	F Flat, diffuse acrylic	EM/10W 10-watt emergency battery <sup>[5]</sup>
L12 1200lm	9 90	30 3000K		EM/10WRM Remote mount 10-watt emergency battery
L15 1500lm		35 3500K		EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch
		40 4000K		V90R Vertical 90° corner, recessed <sup>[6]</sup>
		50 5000K		V90G Vertical 90° corner, grid <sup>[7]</sup>
				CP Chicago Plenum (CCEA)
				ASY Asymmetric distribution <sup>[8]</sup>
				(L___) Additional lower lumen packages available <sup>[9]</sup>
				Example: 600 lumens = MX4RTR-8'00-L8/835-(L6)
				WET/CC Wet location under covered ceiling
				GEN Approved for UL 924 emergency generator circuit through-feed wiring <sup>[10]</sup>

#### CONTROL <sup>[11]</sup>

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control <sup>[12]</sup>
AVI-LVFA-CS2-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor <sup>[13]</sup>
AWNRR	Lutron Athena wireless node integral fixture control, RF only <sup>[14]</sup>
AWNNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing <sup>[15]</sup>

#### DRIVER

See page 7 for ADDITIONAL DRIVER OPTIONS.

DIM	Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires <sup>[16]</sup>
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2) <sup>[17]</sup>

#### VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V <sup>[18]</sup>

### NOTES

- <sup>1</sup> Earthquake clips provided.
- <sup>2</sup> See page 4 for CORNER DETAILS.
- <sup>3</sup> Lumens per foot output based on F shielding, 80 CRI/3500K CCT. Actual performance per foot may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- <sup>4</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 2 for REMOTE MOUNT BATTERY DETAILS.
- <sup>5</sup> Not available with fixtures less than 4'.
- <sup>6</sup> Connects MX4RT to vertically mounted MX4RT. Ships separately. Extended lead times may apply. Consult factory for availability.
- <sup>7</sup> Connects MX4RG to vertically mounted MX4RT. Extended lead times may apply. Consult factory for availability.
- <sup>8</sup> Available with F shielding only. Creates uneven lens illumination. See page 2 for CROSS SECTIONS.

- <sup>9</sup> (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- <sup>10</sup> Maximum mounting height is 29.4' (9.0 m). Minimum lumen output is 800 lm/ft. See [hew.com/UL924](http://hew.com/UL924) for details.
- <sup>11</sup> 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.
- <sup>12</sup> DA driver only.
- <sup>13</sup> DA driver only.
- <sup>14</sup> DA and DSR Drivers only.
- <sup>15</sup> DA and DSR Drivers only.
- <sup>16</sup> Avi-on and Lutron Athena Controls only.
- <sup>17</sup> Lutron Vive and Athena Controls only.
- <sup>18</sup> Not available with EM batteries, control sensors, DA, or DSR Drivers.



# MX4R<sup>LED</sup> 4" Continuous – Recessed

## FIXTURE PERFORMANCE DATA

	MX4RTL/MX4RTR: PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L8	874	7.3	120
L12	1289	10.9	118
L15	1601	13.7	117

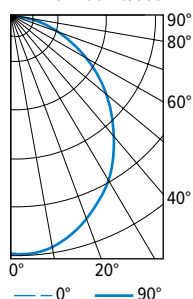
- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.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

## MULTIPLIER TABLE

	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

## PHOTOMETRY

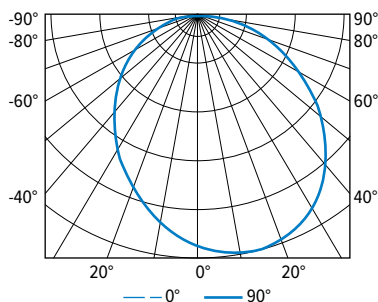
**MX4RG-4'00-L8/835-F-DIM** Total Luminaire Output: 3496 lumens; 29.2 Watts | Efficacy: 120 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1431	1431	1431	
5	1439	1413	1411	135
15	1373	1339	1331	379
25	1227	1207	1189	555
35	1053	1021	1003	643
45	844	826	792	634
55	634	596	586	540
65	394	380	368	378
75	180	178	180	191
85	28	28	28	41
90	2	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1069	31
	0 - 40	1712	49
	0 - 60	2886	83
	0 - 90	3496	100
	0 - 180	3496	100

**MX4RG MX4D-4'00-L8/835-F-ASY** Total Luminaire Output: 3197 lumens; 29.2 Watts | Efficacy: 109 lm/W | 80 CRI; 3500K CCT

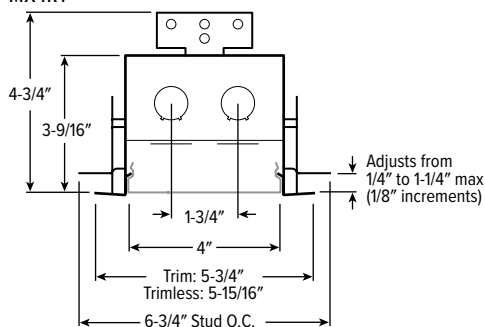


VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1153	1153	1153	1153	1153	
5	1149	1175	1188	1175	1149	109
15	1101	1185	1221	1185	1101	311
25	1011	1135	1187	1135	1011	468
35	881	1024	1083	1024	881	556
45	726	868	922	868	726	566
55	560	684	730	684	560	507
65	384	481	516	481	384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

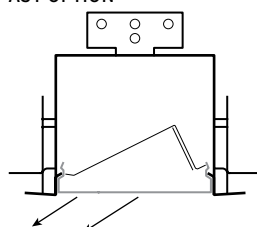
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	887	28
	0 - 40	1443	45
	0 - 60	2516	79
	0 - 90	3197	100
	0 - 180	3197	100

## CROSS SECTIONS

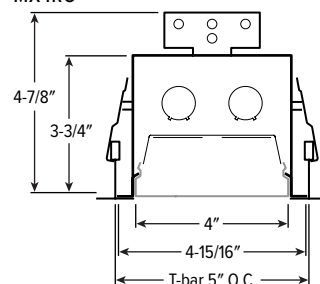
### MX4RT



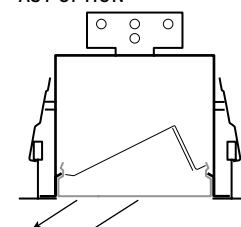
### ASY OPTION



### MX4RG



### ASY OPTION

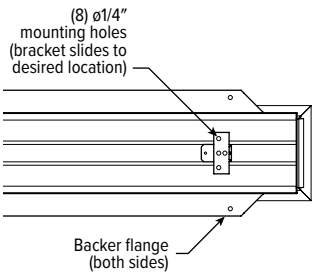


# MX4R LED 4" Continuous – Recessed

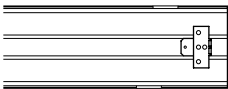
## FIXTURE DETAILS

### BACK VIEWS

MX4RT

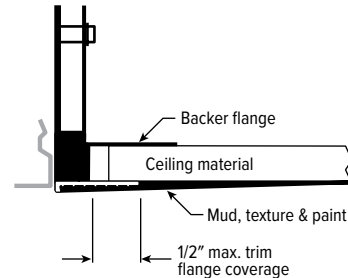


MX4RG

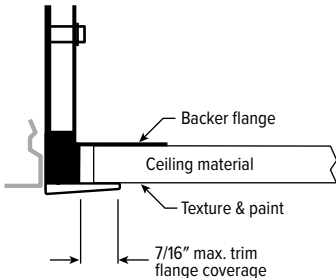


### TRIM FINISH DETAILS (MX4RT only)

Trimless



Trim



### ROUGH-IN DIMENSIONS

- Framing allowance for width (stand-alone) is  $5-3/4" \pm 1/4"$ .
- Framing allowance for length (All Types) is length plus  $1-1/2"$  minimum.

## REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



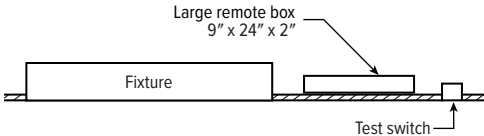
Regressed test switch  
 $\phi 1-3/4"$

EM/10WRM



Standard test switch  
 $2-3/4" \times 4-1/2"$

Max remote distance is 50', connection by others.



SEE NEXT PAGE FOR CORNER DETAILS.



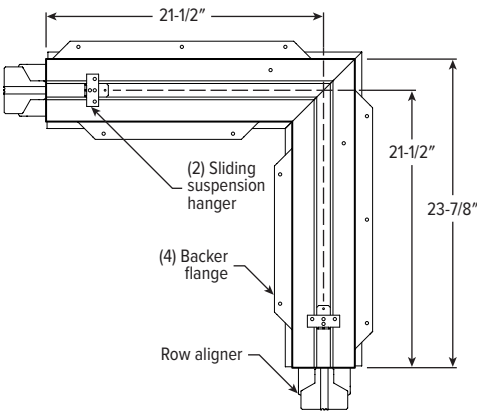
# MX4R LED 4" Continuous – Recessed

## CORNER DETAILS

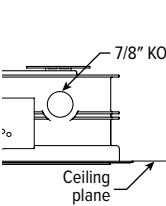
Note: Corner orientation determined in field. Feeder corner end cap shipped separately.

### MX4R90T

BACK VIEW

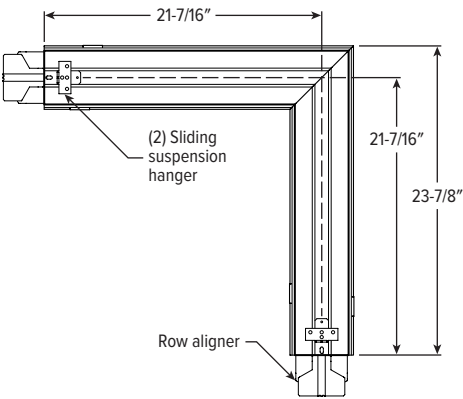


SIDE VIEW

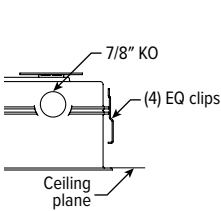


### MX4R90G

BACK VIEW

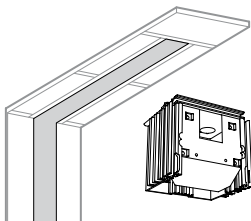


SIDE VIEW

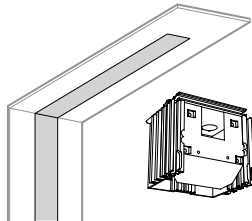


## TRANSITION CORNERS

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

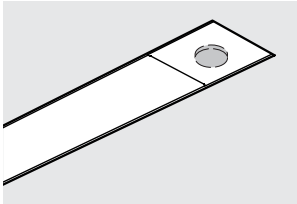


V90G



V90R

## SENSOR & NODE PLACEMENT DETAILS



# MX4R<sup>LED</sup> 4" Continuous – Recessed

## 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

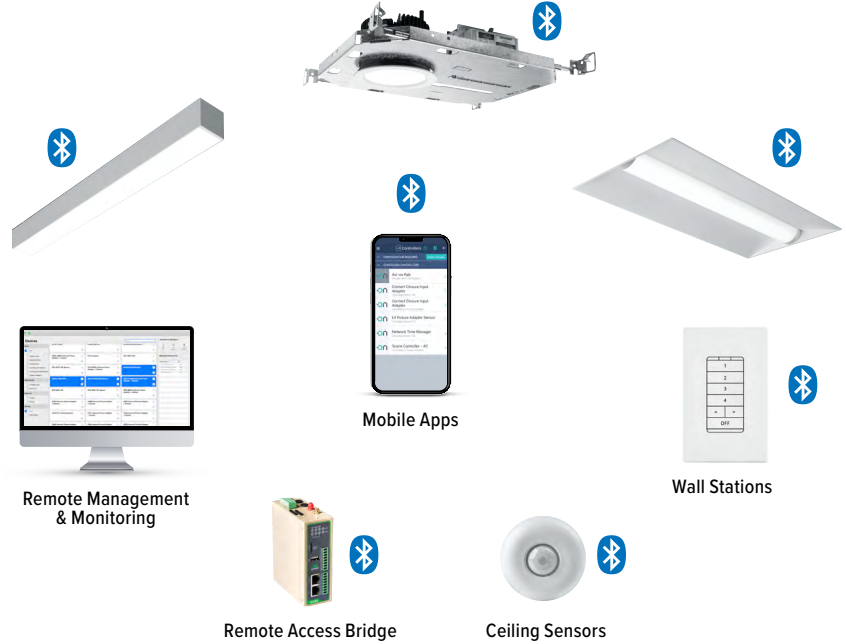


Zone Scanner Web App



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)

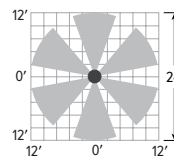
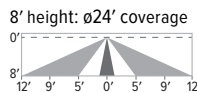
### AVI-LVFA-CS2-PIR Avi-on wireless fixture control with PIR motion and daylight sensor. DA Driver only.

SPECIFICATIONS	
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"



# MX4R LED 4" Continuous – Recessed

## ADDITIONAL CONTROL OPTIONS

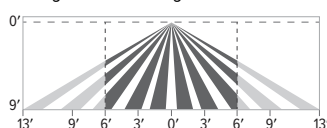
**AWNS** Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DA and DSR Drivers only.

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

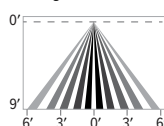
CATALOG NUMBER	DESCRIPTION
AWNDR	Lutron Athena wireless node integral fixture control, RF only, for use with D4i DALI-2 or driver with 12V auxiliary power.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with D4i DALI-2 or driver with 12V auxiliary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

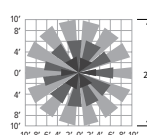
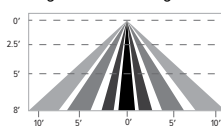
CATALOG NUMBER	DESCRIPTION
VRF	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), for use with sensor-ready driver
VDO	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), for use with sensor-ready driver
VRF/DBI	Lutron Vive integral fixture control,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

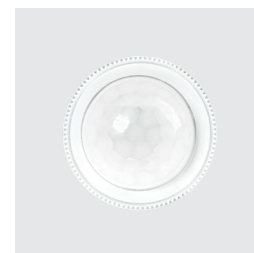
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	8'
LENS	Indoor, non-wet location use
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 55°C
RELATIVE HUMIDITY	5% to 95%, non-condensing
COMMISSIONING	Dials under lens

### SENSOR COVERAGE PATTERNS

8' height: ø20' coverage



### SENSOR DETAIL



Dimensions: ø1-5/16"

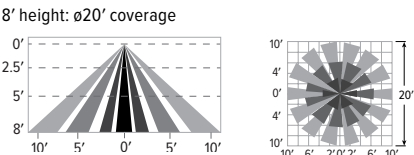


# MX4R<sup>LED</sup> 4" Continuous – Recessed

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
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

