MX2R tunable WHITE
2″ Continuous – Recessed

Williams

CATALOG #: _____

3-3/4″

2-1/8″
T-bar 3-1/4″ O.C.
MX2RG Shown

TYPE: _____

PROJECT: _____

BAA & BABA COMPLIANT   CCEA Approved   WET/CC

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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 132 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
- 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.
- SHIELDING – Extruded 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 board. L70 > 60,000 hours per IES TM-21. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses. 50/60 Hz constant current driver.
- MOUNTING – MX2RT: Drywall mount allowing for ceiling materials 1/4″ - 1-1/4″ thick. Fixture to be installed prior to drywall or finished ceiling material. MX2RG: NEMA Type "G" 15/16″ or 1″ grid standard. MX2SG: NEMA Type "SS" 9/16″ grid standard.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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: MX2RTR - 8'00 - L8/8TW - F - OPTIONS - CONTROL/DALI - UNV

SERIES	FIXTURE STYLE	ILLUMINATED LENGTH
MX2R	**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 [1]	
	SG Slot Grid [2]	

Product Builder

Easily build shapes & simplify ordering with the Williams Linear Product Builder at hew.com/product-builder [3]

LUMENS [4]	COLOR	SHIELDING [5]	OPTIONS [6]	
L8 800lm	**8TW** Tunable white (80 CRI, 3000K-5000K)	**F** Flat	**EM/10WLP**	Low-profile 10-watt emergency battery [8]
		FW Flat with widespread, batwing optic	**EM/10WRM**	Remote mount 10-watt emergency battery
		FA Flat with asymmetric optic	**EM/10WRM/RTS**	Remote mount 10-watt emergency battery with regressed test switch
		G Glowing edge lens, 3/8″	**(L__)**	Additional lower lumen packages available [9] Example: 600 lumens = MX2RTR-8′00-L8/8TW-**(L6)**
		D Drop lens, 1″		
		R Regressed lens, 1″ [7]	**WET/CC**	Wet location under covered ceiling
			CP	Chicago Plenum (CCEA)

CONTROL [10]	DRIVER	VOLTAGE
See page 4 for ADDITIONAL CONTROL OPTIONS.	*See page 4 for DRIVER DETAILS.*	**120** 120V
– None	**DALI** Driver prewired for DALI applications	**277** 277V
AWNR Lutron Athena wireless node integral fixture control, RF only [11]	**DIM** (1) 0-10V signal to control dimming (1) 0-10V signal to control CCT	**UNV** 120-277V
AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing [12]	**DMX** Driver prewired for DMX applications	
	DSR Sensor-ready driver without external dimming wires (D4i DALI-2). [13]	
	LD2 Lutron DALI-2 digital driver, 1%	

NOTES

1. Earthquake clips provided.
2. Earthquake clips provided.
3. See page 3 for CORNER DETAILS.
4. Lumens per foot output based on F Shielding, 80 CRI/4000K CCT. Actual performance may vary ± 5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
5. G, D, and R Shielding not available with corner configurations. See page 2 for SHIELDING DETAILS.
6. 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.
7. Increases fixture height.
8. Not available with fixtures less than 4′.
9. (L4) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
10. Reduces portion of lit fixture, consult factory. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
11. DSR and LD2 Drivers only.
12. DSR and LD2 Drivers only.
13. Lutron Athena Controls only.

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FIXTURE PERFORMANCE DATA

	PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L8	870	6.6	132

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI/4000K 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.
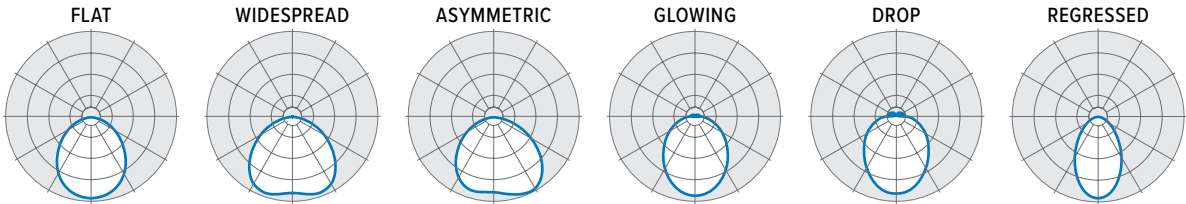- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

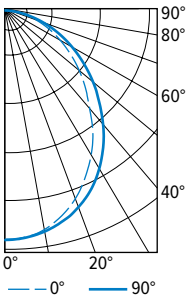|	CONVERSION FACTOR	
CCT	LUMENS	WATTAGE
3000K	0.95	1.04
3500K	0.98	1.02
4000K	1.00	1.00
5000K	0.96	1.04

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

PHOTOMETRY

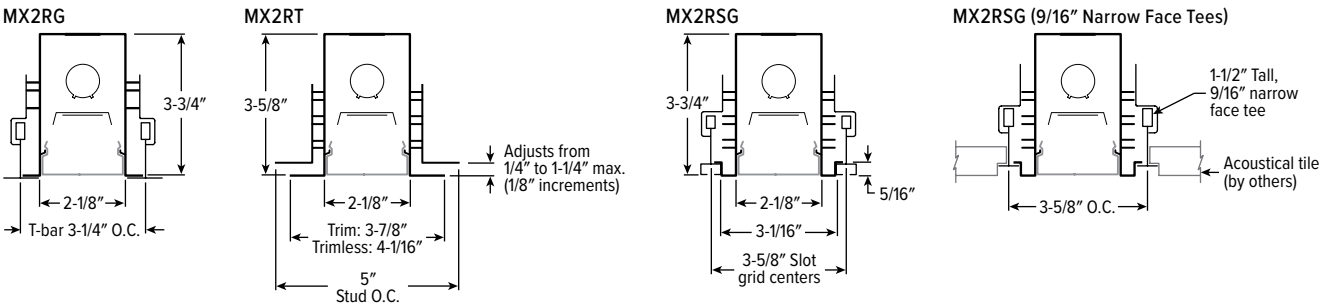FLAT   WIDESPREAD   ASYMMETRIC   GLOWING   DROP   REGRESSED
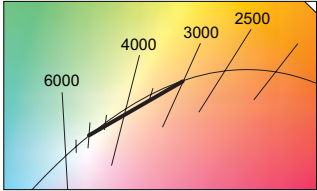
MX2RG-4'00-L8/8TW-F-DALI Total Luminaire Output: 3481 lumens; 26.4 Watts | Efficacy: 131.9 lm/W | 80 CRI; 4000K CCT

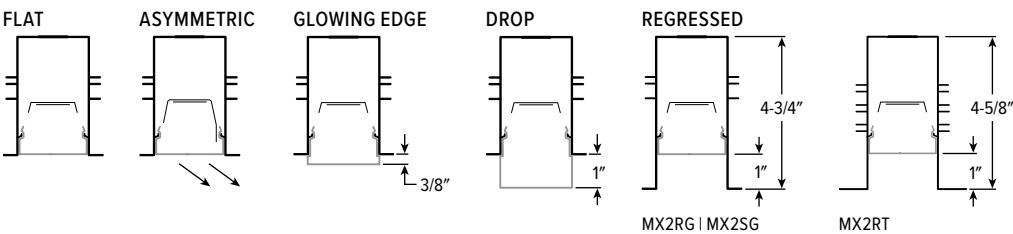| VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	1507	1507	1507	
5	1497	1494	1493	142
15	1428	1415	1394	399
25	1290	1252	1204	576
35	1080	1023	969	641
45	836	776	721	603
55	607	558	512	502
65	394	361	332	360
75	200	187	175	200
85	50	53	53	60
90	1	6	9	

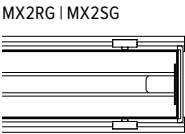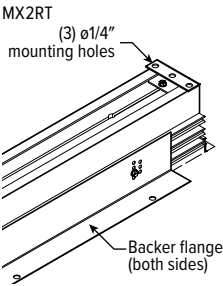| ZONE	LUMENS	% FIXTURE
0 - 30	1116	32
0 - 40	1757	51
0 - 60	2861	82
0 - 90	3480	100
0 - 180	3481	100

CROSS SECTIONS

MX2RG

3-3/4″
2-1/8″
T-bar 3-1/4″ O.C.

MX2RT

3-5/8″
Adjusts from 1/4″ to 1-1/4″ max. (1/8″ increments)
2-1/8″
Trim: 3-7/8″
Trimless: 4-1/16″
5″
Stud O.C.

MX2RSG

3-3/4″
2-1/8″
3-1/16″
3-5/8″ Slot grid centers
5/16″

MX2RSG (9/16″ Narrow Face Tees)

1-1/2″ Tall, 9/16″ narrow face tee
Acoustical tile (by others)
3-5/8″ O.C.

SHIELDING DETAILS

FLAT   ASYMMETRIC   GLOWING EDGE   DROP   REGRESSED

3/8″
1″
4-3/4″
1″
MX2RG | MX2SG
4-5/8″
1″
MX2RT

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FIXTURE DETAILS

BACK VIEWS

MX2RT

(3) ø1/4" mounting holes

Backer flange (both sides)

MX2RG | MX2SG

TRIM FINISH DETAILS (MX2RT only)

Trimless (MX2RTL)

Backer flange

Ceiling material

Mud, texture & paint

1/2" max. trim flange coverage

Trim (MX2RTR)

Backer flange

Ceiling material

Texture & paint

7/16" max. trim flange coverage
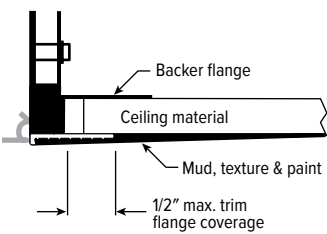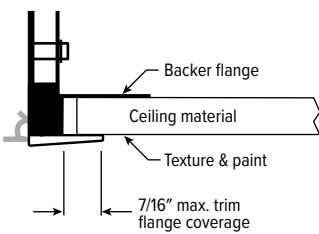
ROUGH-IN DIMENSIONS

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

REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS
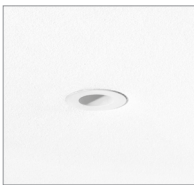
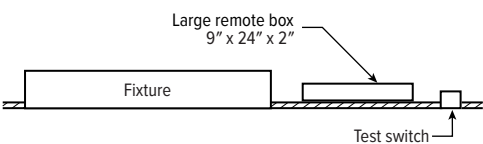Regressed test switch ø1-3/4"

EM/10WRM

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

Max remote distance is 50', connection by others.

Large remote box 9" x 24" x 2"

Fixture

Test switch

CORNER DETAILS
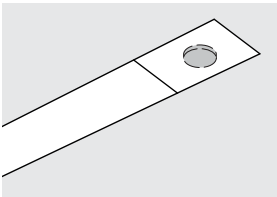
BACK VIEW

24" Nominal

22-7/8"

24" Nominal

24" Nominal

22-7/8"
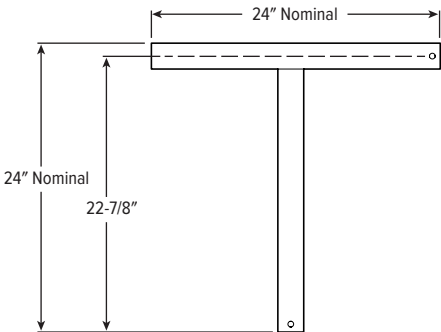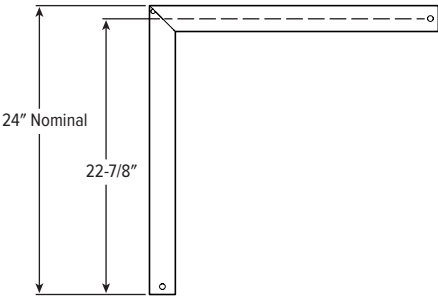
Note: Corner orientation determined in field. Feeder corner end cap shipped separately.

SENSOR & NODE PLACEMENT DETAILS

SEE NEXT PAGE FOR CONTROL DETAILS

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## ADDITIONAL CONTROL OPTIONS

AWNS Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing. DSR and LD2 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
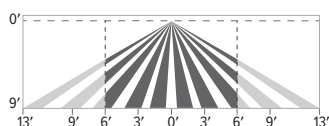
Motion Sensor Coverage

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 sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%.
AWNS	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%.
AWNR-BL	Lutron Athena wireless node integral fixture control, RF only, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%, black finish.
AWNS-BL	Lutron Athena wireless node integral fixture control, RF with daylight and occupancy sensing, for use with sensor-ready driver (D4i DALI-2) or DALI-2 digital driver 1%, black finish.

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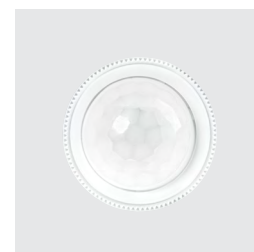
SPECIFICATIONS

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

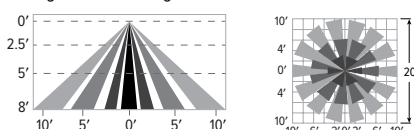8′ height: ø20′ coverage
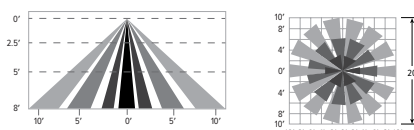
SENSOR DETAIL

Dimensions: ø1-5/16″

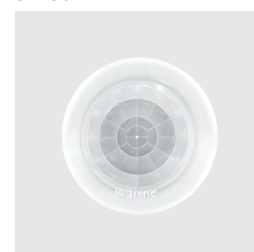## OCCWS-LMFS-601-PP-120/277 Wattstopper PIR motion and daylight sensor with power pack, 120/277V

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)

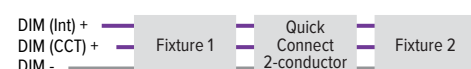### SENSOR COVERAGE PATTERNS

8′ height: ø20′ coverage

SENSOR DETAIL

Dimensions: ø1-5/16″

DRIVER DETAILS

DIM

DIM (Int) +
DIM (CCT) + — Fixture 1 — Quick Connect 2-conductor — Fixture 2
DIM -

DMX

RJ45 Ports (IN/OUT) — Fixture (Master) — Quick Connect Ethernet cable — Fixture (Satellite)

DALI

DALI + — Fixture 1 — Quick Connect 2-conductor — Fixture 2
DALI -

LD2

DA + — Fixture 1 — Quick Connect 2-conductor — Fixture 2
DA -

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