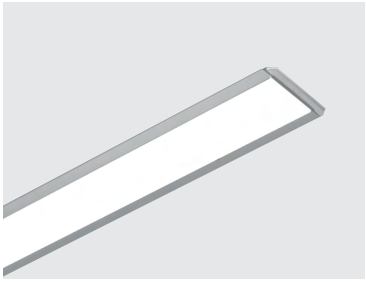
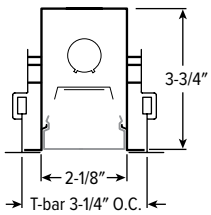
MX2R LED
2" Continuous – Recessed





MX2RG Shown

CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | IK09 Rated | CCEA Approved | WET/CC | UL 924 | TW

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 and enhanced uniformity
- Asymmetric optic directs light for targeted illumination
- High-performance up to 125 lm/W
- Linear extrusion contains snap-in light rails for ease of installation
- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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.
- 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 boards. Reported L70: >54,000 hours. Reported L90: 52,000 hours. Estimated L70: 170,000 hours. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- 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.
  - IC-rated for direct contact with insulation.
  - City of Chicago Environmental Air approved when specified with CP option.
  - IK09 rated (F and R Shielding only).
  - UL 924 available, consult factory.
  - 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 - L8/835 - F - OPTIONS - CONTROL/DIM - UNV

SERIES
MX2R

FIXTURE STYLE
- **TR** Drywall or Hard Surface - Trim
- **TL** Drywall or Hard Surface - Trimless
- **G** Grid [1]
- **SG** Slot Grid [2]

LENGTH
Lengths specified in feet and inches using 1" increments, 2' minimum.
Example: **8'00** = 8'-0"

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

LUMENS [4]
- **L4** 400lm
- **L8** 800lm
- **L10** 1000lm
- **L12** 1200lm

CRI
- **8** 80
- **9** 90

CCT
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K
- **TW** Tunable white (3000K–5000K)
- **TW2** Tunable white (2700K-6500K)

SHIELDING [5]
- **F** Flat
- **FW** Flat with widespread, batwing optic
- **FA** Flat with asymmetric optic
- **G** Glowing edge lens, 3/8"
- **D** Drop lens, 1"
- **R** Regressed lens, 1" [7]

OPTIONS [6]
UL 924 through feed wiring available, consult factory.
- **EM/10WLP** Low-profile 10-watt emergency battery [8]
- **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 [9] Example: 600 lumens = MX2RTR-8'00-L8/835-**(L6)**
- **WET/CC** Wet location under covered ceiling
- **CP** Chicago Plenum (CCEA)

CONTROL [10]
Click HERE for control and sensor options.
- – None

DRIVER
See page 4 for ADDITIONAL DRIVER OPTIONS.
- **DIM** Driver with external 0-10V dimming wires [11]
- **DRV** Driver without external dimming wires [12]
- **DIM1** 1% Driver with external 0-10V dimming wires [13]

VOLTAGE
- **120** 120V
- **277** 277V
- **UNV** 120-277V
- **347** 347V [14]

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, 3500K for static white and 4000K for tunable white. 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 3 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 4 for SENSOR & NODE PLACEMENT DETAILS.
11 0.1% Driver with tunable white.
12 Not available with tunable white.
13 Not available with tunable white.
14 Not available with EM batteries or tunable white.

MX2R LED
2" Continuous – Recessed

FIXTURE PERFORMANCE DATA

	PER FOOT		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L4	422	3.4	124
L8	843	6.7	126
L10	1014	8.1	125
L12	1205	9.8	123

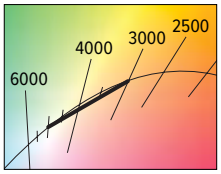
- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI, 3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLE

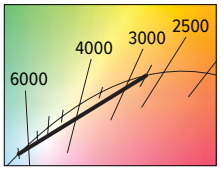
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

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

TW

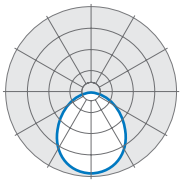


TW2

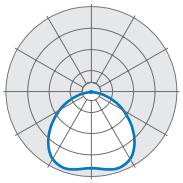


PHOTOMETRY

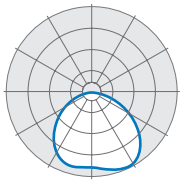
FLAT



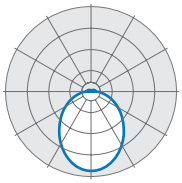
WIDESPREAD



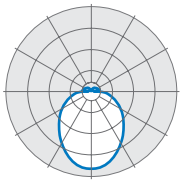
ASYMMETRIC



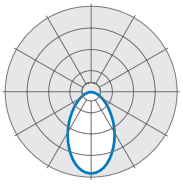
GLOWING



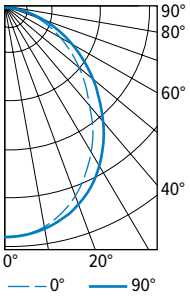
DROP



REGRESSED



MX2RG-4'00-L8/835-F-DIM Total Luminaire Output: 3373 lumens; 27 Watts | Efficacy: 125 lm/W | 80 CRI; 3500K CCT

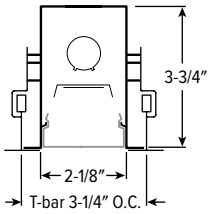


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1460	1460	1460	
	5	1451	1447	1446	138
	15	1384	1371	1351	386
	25	1250	1213	1167	558
	35	1047	991	939	621
	45	810	752	699	584
	55	588	540	497	486
	65	382	350	322	348
	75	194	182	169	194
	85	48	52	52	58
	90	1	6	9	

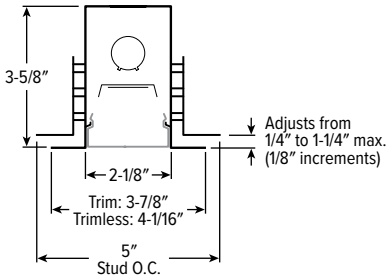
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1082	32
	0 - 40	1702	51
	0 - 60	2772	82
	0 - 90	3372	100
	0 - 180	3372	100

CROSS SECTIONS

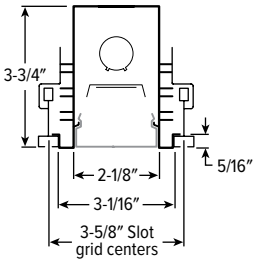
MX2RG



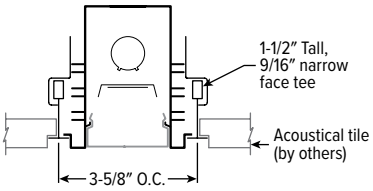
MX2RT



MX2RSG



MX2RSG (9/16" Narrow Face Tees)



MX2R LED
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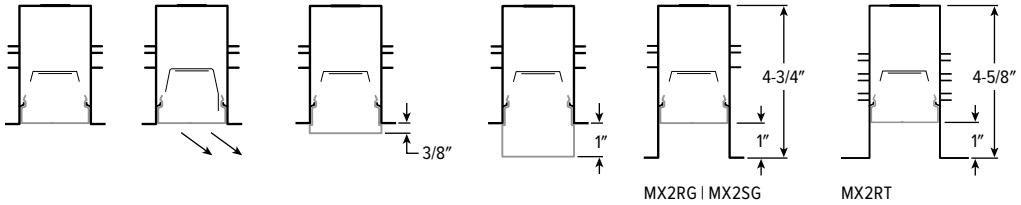
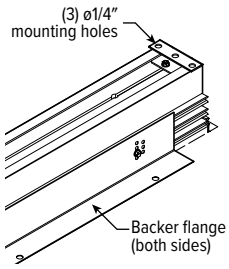
SHIELDING DETAILS



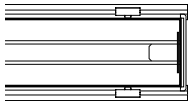
FIXTURE DETAILS

BACK VIEWS

MX2RT

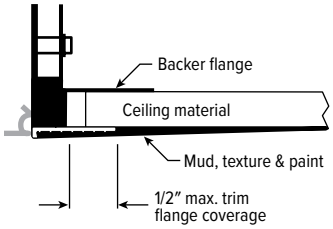


MX2RG | MX2SG

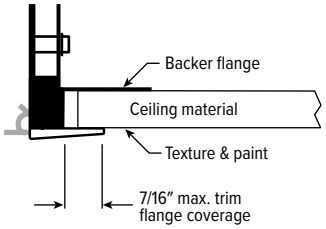


TRIM FINISH DETAILS (MX2RT only)

Trimless (MX2RTL)



Trim (MX2RTR)

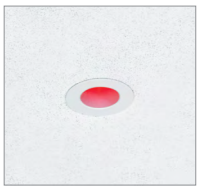


ROUGH-IN DIMENSIONS

- 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

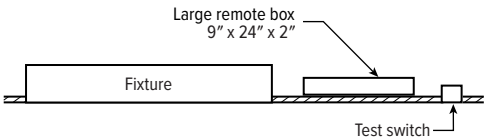


Regressed test switch
ø1-3/4″

EM/10WRM

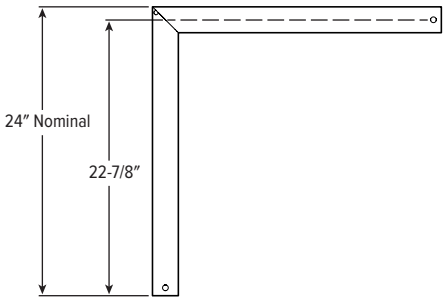
Standard test switch
2-3/4″ x 4-1/2″

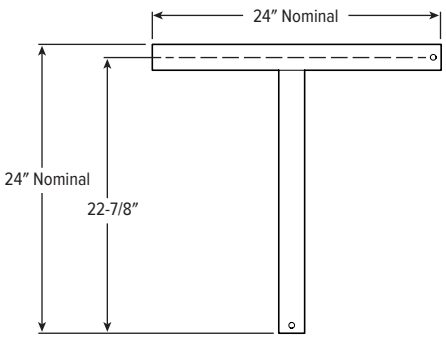
Max remote distance is 50′, connection by others.



CORNER DETAILS

BACK VIEW

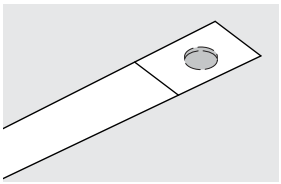




Note: Corner orientation determined in field.
Feeder corner end cap shipped separately.

MX2R LED
2" Continuous – Recessed

SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

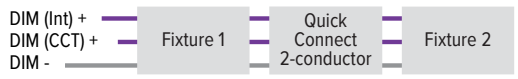
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications (DMX not available in odd inch increments when specified with tunable white)
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI

LD2