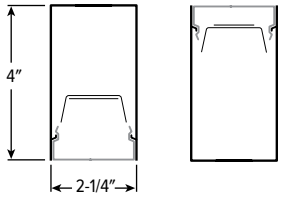
# MX2 LED
## 2″ Continuous – Suspended




CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · IK09 Rated · 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 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. 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 – 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.
  - IK09 rated (Downlight, 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: 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]

**L4** 400lm
**L8** 800lm
**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

**F** Flat
**FW** Flat with widespread, batwing optic
**FA** Flat with asymmetric optic
**G** Glowing edge lens, 3/8″ [5]
**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]

*UL 924 through feed wiring available, consult factory.*
*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)**

### CONTROL [10]

*Click **HERE** for control and sensor options.*

– None

### DRIVER

*See page 5 for **ADDITIONAL DRIVER OPTIONS**.*

**DIM** Driver with external 0-10V dimming wires [13]
**DIM1** 1% Driver with external 0-10V dimming wires [14]
**DRV** Driver without external dimming wires [15]

### VOLTAGE

**120** 120V
**277** 277V
**UNV** 120-277V
**347** 347V [16]

### 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 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.
4 See page 4 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 3 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 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 0.1% Driver with tunable white.
14 Not available with tunable white.
15 Not available with tunable white.
16 Not available with EM batteries or tunable white.

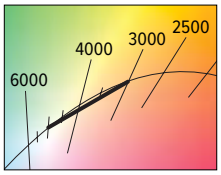
# MX2 LED
## 2″ Continuous – Suspended

### FIXTURE PERFORMANCE DATA

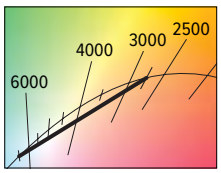
| | DOWN (PER FOOT) | | | UP (PER FOOT) | | |
|---|---|---|---|---|---|---|
| | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
| L4 | 375.8 | 3.4 | 111 | 416.9 | 3.4 | 123 |
| L8 | 751.5 | 6.7 | 112 | 833.8 | 6.7 | 124 |
| L12 | 1127.3 | 10.1 | 112 | 1250.8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

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding, 80 CRI, 3500K 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 table to calculate additional options.

TW




TW2




MULTIPLIER TABLE

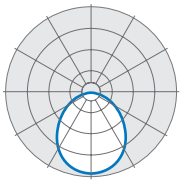
| | COLOR TEMPERATURE | | | |
|---|---|---|---|---|
| | CCT | STANDARD | TW | TW2 |
| 80 CRI | 2700K | 0.97 | – | 0.93 |
| | 3000K | 0.99 | 0.95 | 0.95 |
| | 3500K | 1.00 | 0.98 | 0.98 |
| | 4000K | 1.03 | 1.00 | 1.00 |
| | 5000K | 1.06 | 0.96 | 1.02 |
| | 6500K | – | – | 1.01 |
| 90 CRI | 2700K | 0.80 | – | 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 (MX2U) | 0.96 |
| FA (MX2D) | 0.82 |
| G | 0.98 |
| D | 1.05 |
| R | 0.91 |

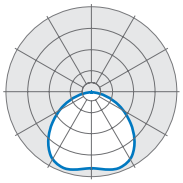
### PHOTOMETRY

MX2D

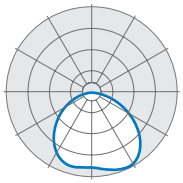
FLAT (F)



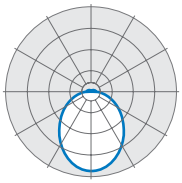
WIDESPREAD (FW)



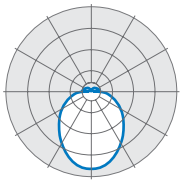
ASYMMETRIC (FA)



GLOWING (G)



DROP (D)



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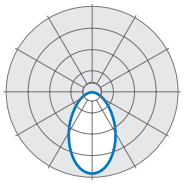
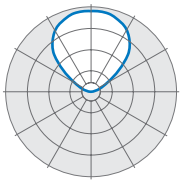
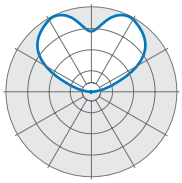


MX2U

FLAT (F)



WIDESPREAD (FW)



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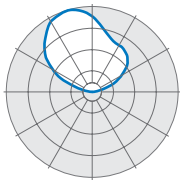

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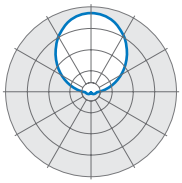
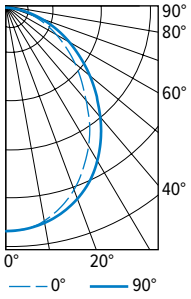


**MX2D-4′00-L8/835-F-DIM** Total Luminaire Output: 3006 lumens; 27 Watts | Efficacy: 111 lm/W | 80 CRI; 3500K CCT




| CANDLEPOWER DISTRIBUTION | | | | | |
|---|---|---|---|---|---|
| | 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 | |

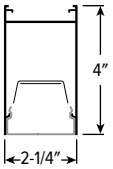
| LUMEN SUMMARY | | | |
|---|---|---|---|
| | ZONE | LUMENS | % FIXTURE |
| | 0 - 30 | 981 | 33 |
| | 0 - 40 | 1537 | 51 |
| | 0 - 60 | 2484 | 83 |
| | 0 - 90 | 3006 | 100 |
| | 0 - 180 | 3006 | 100 |

# MX2 LED
## 2″ Continuous – Suspended

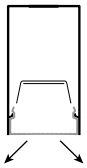
### SHIELDING DETAILS

MX2D

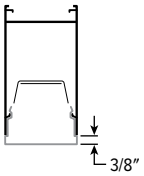
FLAT (F)



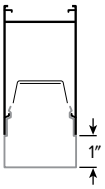

WIDESPREAD (FW)



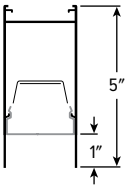
GLOWING (G)



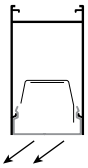

DROP (D)




REGRESSED (R)

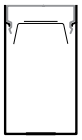



ASYMMETRIC (FA)

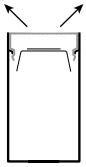


MX2U

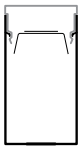
FLAT



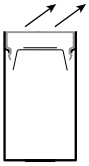
WIDESPREAD (FW)



GLOWING (G)

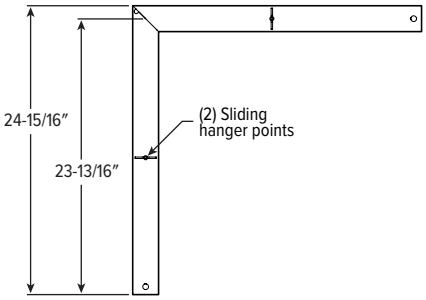


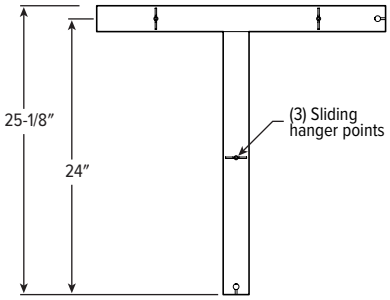
ASYMMETRIC (FA)



### CORNER DETAILS

BACK VIEW




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

### FINISH OPTIONS

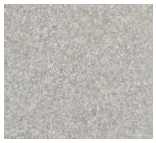
WHITE



BLACK

BRONZE

NICKEL



SILVER

ALUM

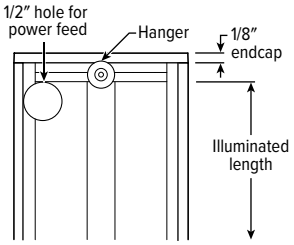
RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

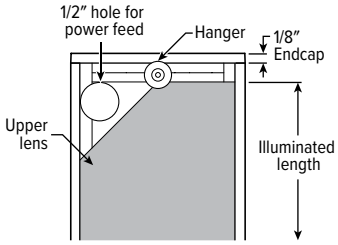
### FIXTURE DETAILS

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



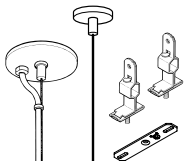

MX2U BACK VIEW



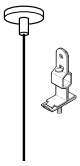
# MX2 LED
## 2″ Continuous – Suspended

## MOUNTING DETAILS

### 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.

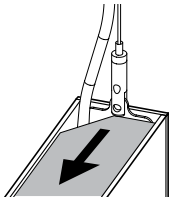
### CORD FOR SUSPENDED PRODUCT

The linear builder uses the mounting length and driver type to auto-select the necessary cord. See details below. Long fixture rows may require multiple feed points based on 18ga conductor size.

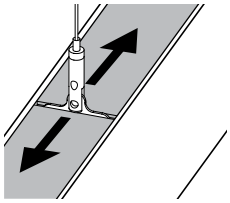
| EXAMPLE: S2438D/W | | | | |
|---|---|---|---|---|
| **CORD TYPE** | **LENGTH** | **# OF COND.** | **WIRE SIZE** | **COLOR** |
| **S** | **24** 24″<br>**48** 48″<br>**96** 96″ | **3**<br>**4**<br>**5** [1]<br>**6** [1] | **8D** 18ga | **/W** White<br>**/B** Black |

[1] Includes (2) 22ga purple & pink dimming conductors

### AIRCRAFT CABLE



Field-adjustable standalone hanger.



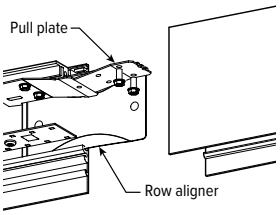
Joiner hanger slides to any position along extrusion. Lens may be cut to fit hanger.

### AIRCRAFT CABLE

### MICROSTEM

Power cord does not run through microstem.

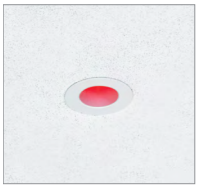
### ROW ALIGNMENT SYSTEM




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

## REMOTE MOUNT BATTERY DETAILS

### EM/10WRM/RTS

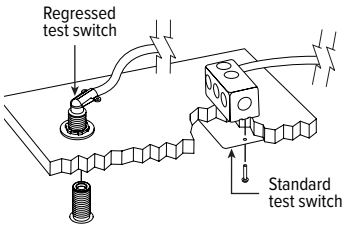


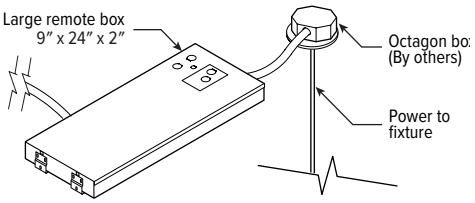
Regressed test switch
ø1-3/4″

### EM/10WRM

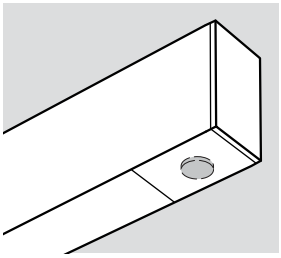
Standard test switch
2-3/4″ x 4-1/2″

Max remote distance is 50′ including suspension length, connection by others.




## SENSOR & NODE PLACEMENT DETAILS



## ADDITIONAL DRIVER OPTIONS

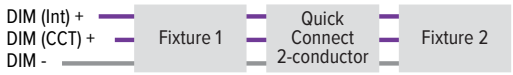
Note: Restrictions may apply, consult product builder at hew.com/product-builder

| 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 |

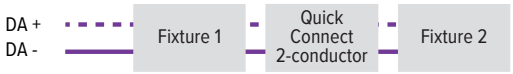
1 Single CCT only.

## TUNABLE WHITE DRIVER DETAILS

### DIM




### DMX

### DALI

### LD2