# MX2UD
### PoE | tunable WHITE
## 2" Continuous Up/Down – Suspended

**Williams**

4"

2-1/4"

CATALOG #: _____

TYPE: _____

PROJECT: _____

*BUY AMERICAN ACT COMPLIANT*

## FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Specify in one inch increments to create a perfect fit
- Flat, glowing edge, drop and regressed lenses give designers a variety of looks
- Linear extrusion contains snap-in light rails for ease of installation and maintenance
- Attractive source of direct and indirect lighting
- Factory installed row alignment system creates straight rows with ease
- Corner configurations available, see Product Builder at hew.com/product-builder
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING – Extruded aluminum with die-cast end plates.
- SHIELDING – Extruded, flat, 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 board. L70 > 60,000 hours per IES TM-21. Low-voltage DC fixture, to be fed by Class 2 power supply. 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.
- 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

## SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe

## ORDERING EXAMPLE: MX2UD - 12'00 - P8/835U/P8/835D - F/F - AC/D48 - OPTIONS - POE PR

**SERIES**
**MX2UD**

**ILLUMINATED LENGTH**
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 [1]

### LUMEN PACKAGE (EXAMPLE: P8/835U/P8/835D)
Specify lumen packages: **U** for Uplight and **D** for Downlight

| LUMENS [2] | CRI | CCT | U or D |
|---|---|---|---|
| **P8** 800lm | **8** 80 | **27** 2700K | **U** Uplight |
| | **9** 90 [3] | **30** 3000K | **D** Downlight |
| | | **35** 3500K | |
| | | **40** 4000K | |
| | | **50** 5000K | |
| | | **TW** Tunable white (80 CRI, 3000K-5000K) | |

### SHIELDING UP
**F** Flat, diffuse acrylic
**FW** Flat, diffuse acrylic with widespread optic
**FA** Flat, diffuse acrylic with asymmetric optic
**G** Diffuse acrylic with glowing edge [4]

### SHIELDING DOWN
**F** Flat, diffuse acrylic
**FW** Flat, diffuse acrylic with widespread optic
**G** Diffuse acrylic with glowing edge [5]
**D** Diffuse acrylic with 1" drop [6]
**R** Regressed diffuse acrylic, 1" [7]

### MOUNTING (EXAMPLE: AC/D48) [8]

| 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 [10]

### OPTIONS
*See page 2 for FINISH OPTIONS.*

### CONTROL [9]
**POE PR** Power over Ethernet-ready

## NOTES
1. See page 4 for CORNER DETAILS.
2. Lumens per foot output based on F Shielding, 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary ± 5%. See page 2 for FIXTURE PERFORMANCE DATA.
3. Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
4. Not available with corner configurations.
5. Not available with corner configurations.
6. Not available with corner configurations.
7. Not available with corner configurations. Increases fixture height. See page 3 for SHIELDING DETAILS.
8. See page 3 for MOUNTING DETAILS.
9. For additional PoE connection details, consult factory.
10. Power cord does not run through microstem.

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## FIXTURE PERFORMANCE DATA

### STATIC WHITE (PER FOOT)

| TOTAL DELIVERED LUMENS | TOTAL WATTAGE | EFFICACY (lm/W) |
|---|---|---|
| 1638 | 12.6 | 130 |

### TUNABLE WHITE (PER FOOT)

| TOTAL DELIVERED LUMENS | TOTAL WATTAGE | EFFICACY (lm/W) |
|---|---|---|
| 1643 | 12.6 | 130 |

- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding for Up and Down compartments, 80 CRI, 3500K CCT static white, 4000K CCT tunable white, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Use multiplier tableS to calculate additional options.

### MULTIPLIER TABLES

| | COLOR TEMPERATURE | | |
|---|---|---|---|
| | CCT | LUMENS | |
| | | STANDARD | TUNABLE WHITE |
| **80 CRI** | 2700K | 0.97 | – |
| | 3000K | 0.99 | 0.95 |
| | 3500K | 1.00 | 0.98 |
| | 4000K | 1.03 | 1.00 |
| | 5000K | 1.06 | 0.96 |
| **90 CRI** | 2700K | 0.80 | – |
| | 3000K | 0.82 | – |
| | 3500K | 0.83 | – |
| | 4000K | 0.86 | – |
| | 5000K | 0.89 | – |

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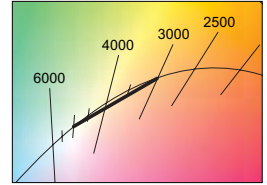
## PHOTOMETRY

**MX2UD-4'00-P8/835U/P8/835D-F/F** Total Luminaire Output: 6552 lumens; 50.4 Watts | Efficacy: 130 lm/W | 80 CRI; 3500K CCT
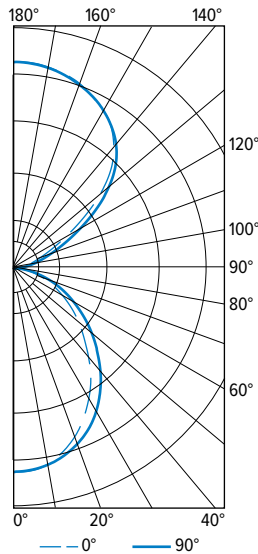


| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|---|---|---|---|---|
| | 0° | 45° | 90° | |
| 0 | 1399 | 1399 | 1399 | |
| 5 | 1387 | 1388 | 1393 | 132 |
| 15 | 1319 | 1310 | 1287 | 369 |
| 25 | 1185 | 1147 | 1099 | 528 |
| 35 | 985 | 929 | 873 | 582 |
| 45 | 758 | 695 | 636 | 539 |
| 55 | 540 | 492 | 445 | 442 |
| 65 | 347 | 313 | 283 | 313 |
| 75 | 173 | 160 | 148 | 171 |
| 85 | 41 | 46 | 46 | 51 |
| 90 | 3 | 5 | 4 | |
| 95 | 46 | 31 | 26 | 39 |
| 105 | 152 | 116 | 101 | 131 |
| 115 | 316 | 267 | 221 | 270 |
| 125 | 604 | 556 | 486 | 493 |
| 135 | 921 | 890 | 864 | 683 |
| 145 | 1133 | 1126 | 1123 | 704 |
| 155 | 1269 | 1271 | 1265 | 586 |
| 165 | 1358 | 1363 | 1365 | 385 |
| 175 | 1407 | 1403 | 1413 | 134 |
| 180 | 1413 | 1413 | 1413 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 30 | 1029 | 16 |
| 0 - 40 | 1610 | 25 |
| 0 - 60 | 2592 | 40 |
| 0 - 90 | 3127 | 48 |
| 90 - 120 | 441 | 7 |
| 90 - 130 | 933 | 14 |
| 90 - 150 | 2321 | 35 |
| 90 - 180 | 3425 | 52 |
| 0 - 180 | 3552 | 100 |

**MX2UD-4'00-P8/835U/P8/835D-FA/F** Total Luminaire Output: 6551 lumens; 50.4 Watts | Efficacy: 130 lm/W | 80 CRI; 3500K CCT
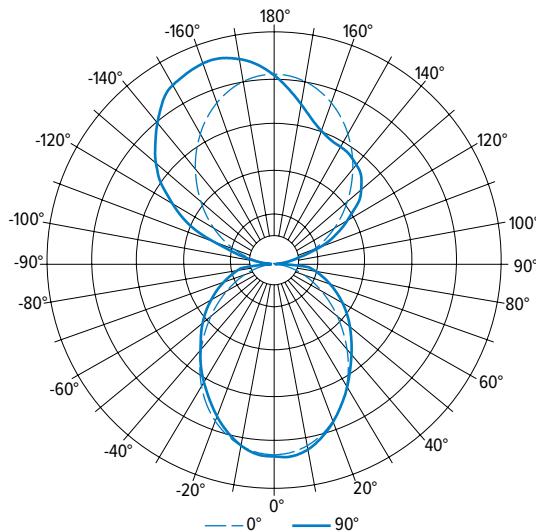


| VERTICAL ANGLE | HORIZONTAL ANGLE | | | | | ZONAL LUMENS |
|---|---|---|---|---|---|---|
| | 0° | 45° | 90° | 135° | 180° | |
| 0 | 1442 | 1442 | 1442 | 1442 | 1442 | |
| 5 | 1422 | 1437 | 1445 | 1437 | 1422 | 136 |
| 15 | 1346 | 1361 | 1350 | 1361 | 1346 | 378 |
| 25 | 1204 | 1200 | 1161 | 1200 | 1204 | 540 |
| 35 | 1007 | 981 | 928 | 981 | 1007 | 599 |
| 45 | 784 | 755 | 701 | 755 | 784 | 564 |
| 55 | 564 | 539 | 498 | 539 | 564 | 465 |
| 65 | 360 | 348 | 321 | 348 | 360 | 328 |
| 75 | 181 | 187 | 177 | 187 | 181 | 183 |
| 85 | 46 | 63 | 66 | 63 | 46 | 60 |
| 90 | 6 | 14 | 20 | 14 | 6 | |
| 95 | 35 | 27 | 21 | 27 | 35 | 48 |
| 105 | 170 | 197 | 156 | 197 | 170 | 215 |
| 115 | 328 | 389 | 398 | 389 | 328 | 424 |
| 125 | 486 | 573 | 596 | 573 | 486 | 563 |
| 135 | 649 | 684 | 737 | 684 | 649 | 608 |
| 145 | 812 | 753 | 792 | 753 | 812 | 571 |
| 155 | 957 | 809 | 814 | 809 | 957 | 461 |
| 165 | 1067 | 924 | 890 | 924 | 1067 | 303 |
| 175 | 1128 | 1061 | 1046 | 1061 | 1128 | 106 |
| 180 | 1128 | 1128 | 1128 | 1128 | 1128 | |

| ZONE | LUMENS | % FIXTURE |
|---|---|---|
| 0 - 30 | 1054 | 16 |
| 0 - 40 | 1653 | 25 |
| 0 - 60 | 2681 | 41 |
| 0 - 90 | 3253 | 50 |
| 90 - 120 | 687 | 11 |
| 90 - 130 | 1250 | 19 |
| 90 - 150 | 2429 | 37 |
| 90 - 180 | 3298 | 50 |
| 0 - 180 | 6551 | 100 |

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# MX2UD

PoE | tunable WHITE
2″ Continuous Up/Down – Suspended

## FINISH OPTIONS

| WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM |
|---|---|---|---|---|---|
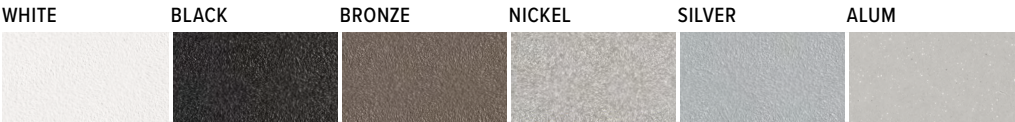
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1″ square.
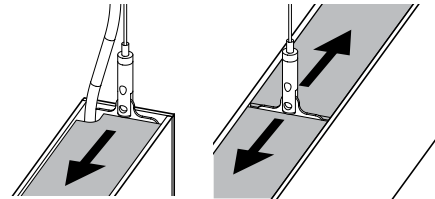
## FIXTURE DETAILS

Stand-alone fixtures up to 12′ in length will require two suspension cables.

### BACK VIEW

Hanger
1/8″ Endcap
1/2″ hole for power feed
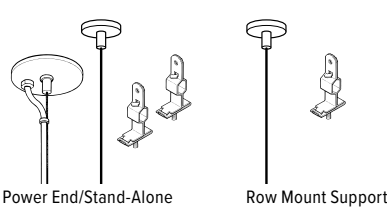Upper lens
Illuminated length
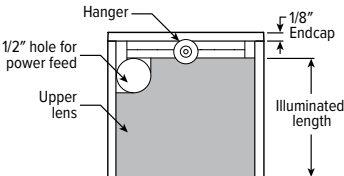
## MOUNTING DETAILS

### AIRCRAFT CABLE

Field-adjustable standalone hanger.

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

### AIRCRAFT CABLE

### MICROSTEM

### STANDARD HARDWARE

Power End/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 (or stand-alone) fixture, either as part of a row or as an individual mount unit. Power feed locations are at end of fixture.
- One 5″ canopy included for each feeder fixture. One 2″ canopy included for each additional fixture required in a row.

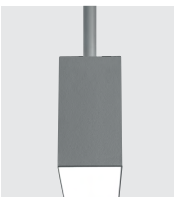### ROW ALIGNMENT SYSTEM

Pull plate
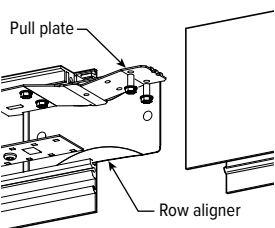
Row aligner

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

## SHIELDING DETAILS
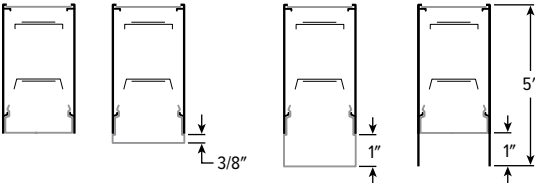
### FLAT

| FLAT | GLOWING EDGE | DROP | REGRESSED |
|---|---|---|---|

3/8″    1″    1″    5″

### GLOWING EDGE

| FLAT | GLOWING EDGE | DROP | REGRESSED |
|---|---|---|---|

3/8″    3/8″    3/8″    3/8″    3/8″    1″    5″    1″

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## CORNER DETAILS

**BACK VIEW**

25-1/8″

24″

(2) Sliding hanger points

25-1/8″

24″

(3) Sliding hanger points

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

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