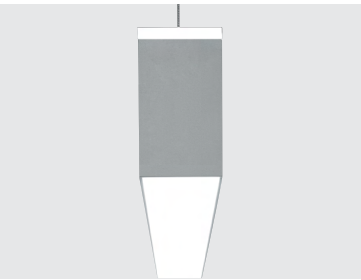
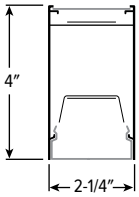
MX2UD LED
2″ Continuous Up/Down – Suspended





CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · IK09 Rated · UL 924 · TW

ORDERING EXAMPLE: MX2UD - 12′00 - L8/835U/L8/835D - F/F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

SERIES

MX2UD

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]

LUMEN PACKAGE (EXAMPLE: L8/835U/L8/835D)

Specify lumen packages: **U** for Uplight and **D** for Downlight

LUMENS [3]		CRI		CCT		U or D	
L4	400lm	**8**	80	**27**	2700K	**U**	Uplight
L8	800lm	**9**	90	**30**	3000K	**D**	Downlight
L12	1200lm			**35**	3500K		
				40	4000K		
				50	5000K		
				TW	Tunable white (3000K–5000K)		
				TW2	Tunable white (2700K-6500K)		

SHIELDING UP

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

SHIELDING DOWN

- **F** Flat
- **FW** Flat with widespread, batwing optic
- **FA** Flat with asymmetric optic
- **G** Glowing edge lens, 3/8″ [6]
- **D** Drop lens, 1″ [7]
- **R** Regressed lens, 1″ [8]

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 [18]

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 = MX2UD-12′00-L8/835U/L8/835D-**(L6U/L6D)**

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 A Shielding Up and F Shielding Down, 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. Not available with corner configurations
7. Not available with corner configurations
8. Not available with corner configurations
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. Sensors not available in fixtures less than 48″. 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 fixture less than 4′, maximum combined lumens cannot exceed 1600 per foot.
12. (L3U/L3D) 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.
17. Lumens per foot output based on F Shielding, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary ± 5%. 2000 lumens per foot maximum. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
18. Power cord does not run through microstem.

MX2UD LED
2" Continuous Up/Down – Suspended

FEATURES

- Attractive source of direct and indirect lighting
- 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 to enhance 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
- Support human-centric design with adaptive, individualized lighting using tunable white
- High-performance up to 126 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

FIXTURE PERFORMANCE DATA

	PER FOOT (2000 LUMENS PER FOOT MAXIMUM)				
	DELIVERED LUMENS			TOTAL WATTAGE	EFFICACY (lm/W)
	UP	DOWN	TOTAL		
L4/835U/L4/835D	417	376	793	6.8	117
L4/835U/L8/835D	417	752	1168	10.1	116
L8/835U/L4/835D	834	376	1210	10.1	120
L8/835U/L8/835D	834	752	1585	13.4	118
L8/835U/L12/835D	834	1127	1961	16.2	121
L4/835U/L12/835D	417	1127	1544	13.5	114
L12/835U/L4/835D	1251	376	1627	13.5	121
L12/835U/L8/835D	1251	752	2002	15.9	126

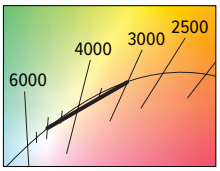
- Photometrics tested in accordance with IESNA LM-79. Results based on F shielding for Up and Down compartments, 80 CRI, 3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen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

MULTIPLIER TABLE

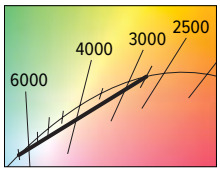
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

SHIELDING	
LENS	CONVERSION FACTOR
F	1.00
FW	0.92
FA (Up)	0.96
FA (Down)	0.82
G	0.98
D	1.05
R	0.91

TW

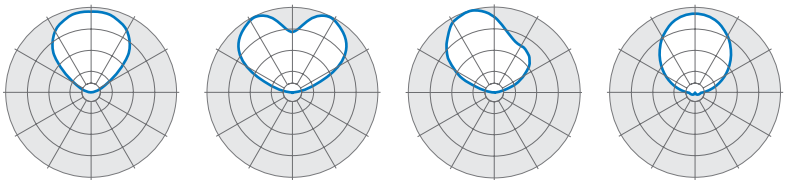


TW2

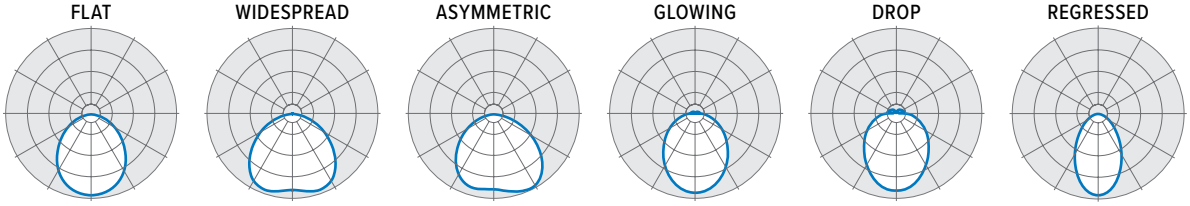


PHOTOMETRY

UP



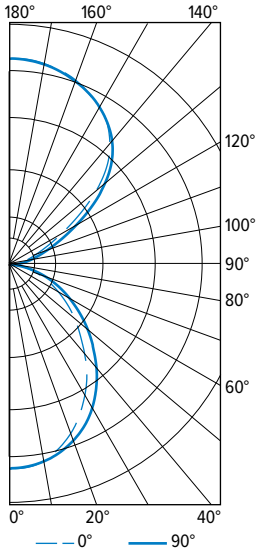
DOWN



PHOTOMETRY CONTINUED ON NEXT PAGE.

MX2UD LED
2″ Continuous Up/Down – Suspended

MX2UD-4′00-L8/835U/L8/835D-A/F-DIM Total Luminaire Output: 6341 lumens; 53.6 Watts | Efficacy: 118 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

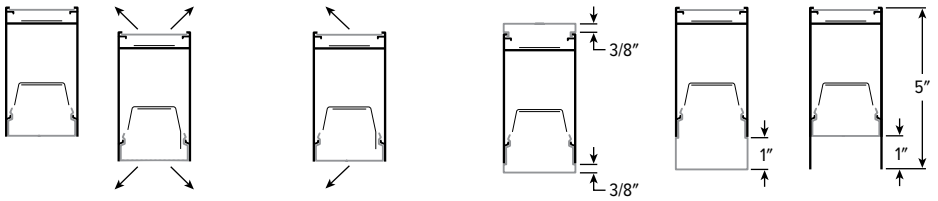
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1354	1354	1354	
5	1343	1344	1348	128
15	1277	1268	1246	357
25	1147	1110	1063	511
35	954	899	845	563
45	734	672	615	522
55	523	476	431	428
65	336	303	274	303
75	168	155	143	166
85	40	44	45	50
90	2	5	4	
95	44	30	25	37
105	147	112	98	127
115	306	258	214	262
125	585	538	470	477
135	892	861	836	661
145	1097	1090	1087	681
155	1228	1230	1224	567
165	1314	1319	1321	373
175	1362	1358	1367	130
180	1367	1367	1367	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	996	16
0 - 40	1559	25
0 - 60	2509	40
0 - 90	3027	48
90 - 120	426	7
90 - 130	903	14
90 - 150	2246	35
90 - 180	3150	50
0 - 180	6341	100

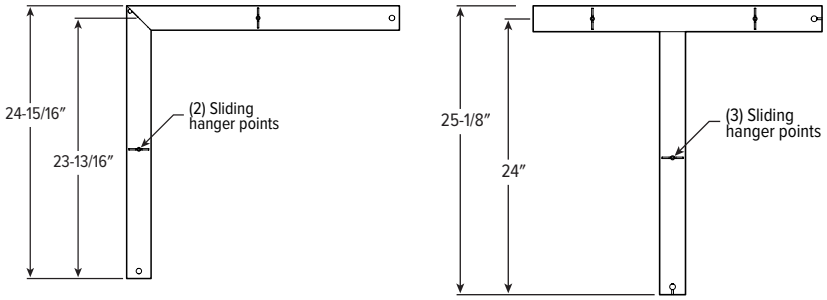
SHIELDING DETAILS

FLAT (F) WIDESPREAD (FW) ASYMMETRIC (FA) GLOW (G) DROP REGRESSED (R)



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#____

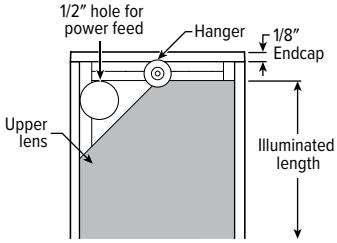
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

MX2UD LED
2″ Continuous Up/Down – Suspended

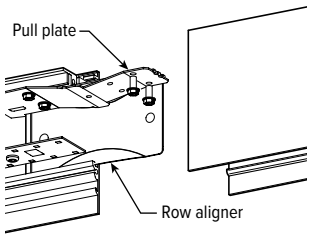
MOUNTING DETAILS

Stand-alone fixtures up to 12′ in length will require two suspension cables. See hew.com/power-entry for power entry details.

BACK VIEW



ROW ALIGNMENT SYSTEM



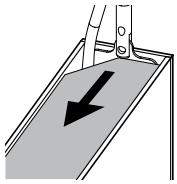
Installer friendly row aligners ensure seamless joining between fixtures while factory installed pull plate locks extrusions in place without disassembly of fixture internals.

AIRCRAFT CABLE

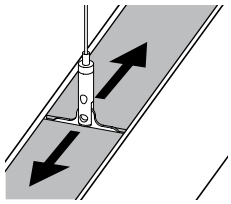
MICROSTEM

Power cord does not run through microstem.

AIRCRAFT CABLE

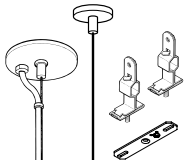


Field-adjustable standalone hanger.

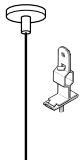


Joiner hanger slides to any position along extrusion. Lens may be cut to fit hanger.

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

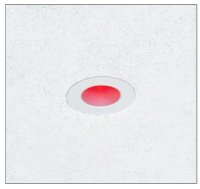
The linear builder uses the mounting length and driver type to auto-select the necessary cord. See details below. Long fixture rows may require multiple feed points based on 18ga conductor size.

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

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

REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

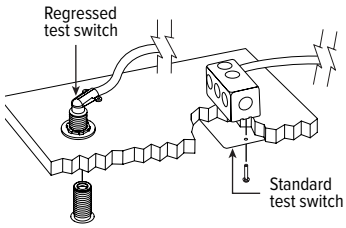


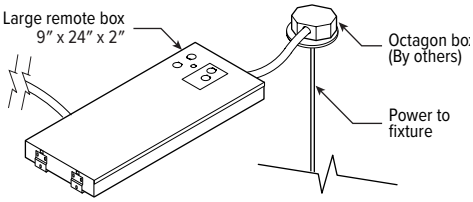
Regressed test switch ø1-3/4″

EM/10WRM

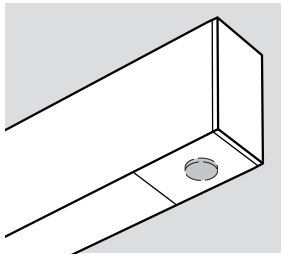
Standard test switch 2-3/4″ x 4-1/2″

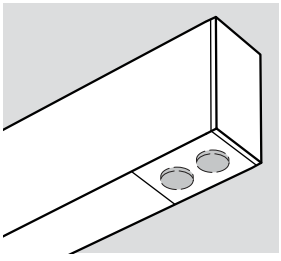
Max remote distance is 50′ including suspension length, connection by others.





SENSOR & NODE PLACEMENT DETAILS





MX2UD LED
2" Continuous Up/Down – Suspended

ADDITIONAL DRIVER OPTIONS

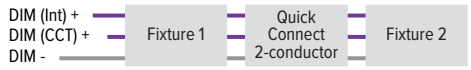
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications; entire fixture switches together
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)
DRVU/DRVD [1]	Driver without external dimming wires prewired for non-dimming applications; up and down switch separately
DRVU/DIMD [1]	Driver without external dimming wires prewired for non-dimming applications; up and down switch separately; external dimming wires on down only
DIMU/DRVD [1]	Driver with external dimming wires prewired for 0-10V low voltage applications on up only; up and down portions switch separately
DIMU/DIMD	Driver with external dimming wires prewired for 0-10V low voltage applications; up and down switch and dim separately
DRVDIMU [1]	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on up only
DRVDIMD [1]	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on down only
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM1U/DIM1D [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications; up and down switch and dim separately
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DIM LINEU/DIM LINED [1]	Line voltage switching and line voltage dimming; up and down switch separately
DIM LINEU/DRVD [1]	Up and down portions switch separately; line voltage dimming on up only
DRVU/DIM LINED [1]	Up and down portions switch separately; line voltage dimming on down only
DA	Driver with 12V auxiliary power, without external dimming wires. Up and down switch together.
DA-U/D	Driver with 12V auxiliary power, without external dimming wires. Up and down switch separately.
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch together.
DSR-U/D	Sensor-ready driver without external dimming wires (D4i DALI-2). Up and down switch separately.
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.

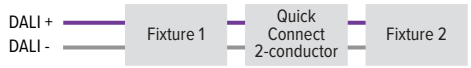
TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI



LD2