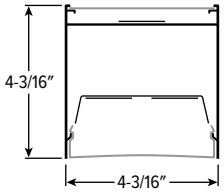
MX4UDC LED
4″ Compact Continuous Up/Down – Suspended



CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT · IK10 Rated · UL 924 · TW

FEATURES

- Create elegant spaces with a seamless, continuous row of illumination
- Widespread optic allows for increased luminaire spacing while enhancing ceiling uniformity
- Asymmetric optic directs light for targeted illumination
- Specify in one inch increments to create a perfect fit
- IK10 rated for demanding environments
- High-performance up to 133 lm/W
- Linear extrusion contains snap-in light rails for ease of installation
- Attractive source of direct and indirect lighting
- Versatile MX4 system includes recessed, surface, suspended and in-wall mounting, see hew.com/mx4
- Corner configurations available, see Product Builder at hew.com/product-builder
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Diffuse acrylic lens provides uniform illumination for visual comfort
- 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. L70 >60,000 hours per IES TM-21. 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.
  - UL 924 available, see Options.
  - IK10 rated (Downlight and F shielding only).
  - 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: MX4UDC - 12′00 - L8/835U/L8/835D - F/F - AC/D48 - OPTIONS - CONTROL/DIM - UNV

SERIES
MX4UDC

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

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

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

LUMENS [2]	CRI	CCT	U or D
Single CCT or TW	**8** 80	**27** 2700K	**U** Uplight
L8 800lm	**9** 90	**30** 3000K	**D** Downlight
Single CCT only		**35** 3500K	
L12 1200lm		**40** 4000K	
L15 1500lm		**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

SHIELDING DOWN

- **F** Flat
- **FW** Flat with widespread, batwing optic
- **FA** Flat with asymmetric optic

MOUNTING (EXAMPLE: AC/D48)

Prefix	Type	Length
AC/ Aircraft cables	**D** 1″ grid & hardpan	**24** 24″
	N 9/16″ grid	**48** 48″
	S Slot grid	**96** 96″
MSF_ Microstem	1/2″ IPS, specify length in inches [8]	

OPTIONS

*See page 3 for **FINISH OPTIONS**.*

- **EM/10W** 10-watt emergency battery [3]
- **EM/10WRM** Remote mount 10-watt emergency battery [4]
- **EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch [5]
- **(L__)** Additional lower lumen packages available [6] Example: 600 lumens = MX4UDC-12′00-L8/835U/L8/835D-**(L6U/L6D)**
- **GEN** Approved for UL 924 emergency generator circuit through-feed wiring [7]

CONTROL [9]

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

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

- **DIM** Driver with external 0-10V dimming wires. Entire fixture switches and dims together. [10]
- **DIM1** 1% Driver with external 0-10V dimming wires. [11]
- **DRV** Driver without external dimming wires. Entire fixture switches together. [12]

VOLTAGE

- **120** 120V
- **277** 277V
- **UNV** 120-277V
- **347** 347V [13]

NOTES

1 Endcaps add 1/4″ to overall specified length.
2 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.
3 Not available with fixtures less than 48″.
4 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 3 for REMOTE MOUNT BATTERY DETAILS.
5 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 3 for REMOTE MOUNT BATTERY DETAILS.
6 (L4U/L4D) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7 Not available with tunable white. Downlight orientation only. Maximum mounting height is 29.4′ (9.0 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
8 Power cord does not run through microstem.
9 Sensor for use in downlight orientation only. Reduces portion of lit fixture, consult factory.
10 0.1% Driver with tunable white.
11 Not available with tunable white.
12 Not available with tunable white.
13 Not available with tunable white or EM batteries.

MX4UDC LED
4″ Compact Continuous Up/Down – Suspended

FIXTURE PERFORMANCE DATA

	PER FOOT				
	DELIVERED LUMENS			TOTAL WATTAGE	EFFICACY (lm/W)
	UP	DOWN	TOTAL		
L8/835U/L8/835D	822	845	1666	13.5	123
L8/835U/L12/835D	822	1259	2081	15.9	131
L8/835U/L15/835D	822	1535	2356	18.5	127
L12/835U/L8/835D	1218	845	2062	15.6	132
L12/835U/L12/835D	1218	1259	2476	18.8	132
L12/835U/L15/835D	1218	1535	2752	21.4	129
L15/835U/L8/835D	1522	845	2367	17.8	133
L15/835U/L12/835D	1522	1259	2781	21.1	132
L15/835U/L15/835D	1522	1535	3056	23.7	129

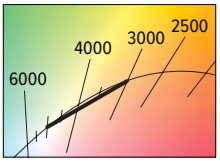
- Photometrics tested in accordance with IESNA LM-79. Results based on Results based on F shielding, 80 CRI, 3500K for static white and 4000K for tunable white CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- To calculate lumen output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

MULTIPLIER TABLES

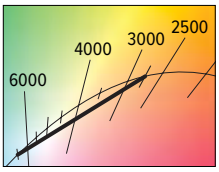
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

	SHIELDING	
	LENS	CONVERSION FACTOR
DOWN	F	1.00
	FW	1.00
	FA	1.00
UP	F	1.00
	FW	0.94
	FA	0.98

TW

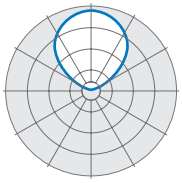


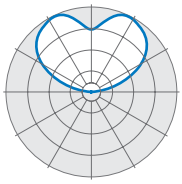
TW2

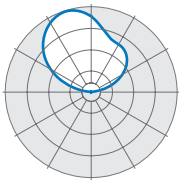


PHOTOMETRY

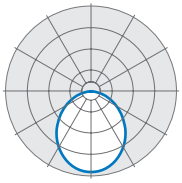
UP

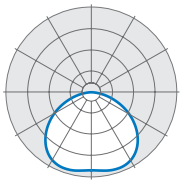


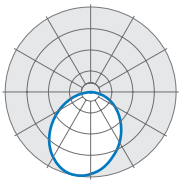




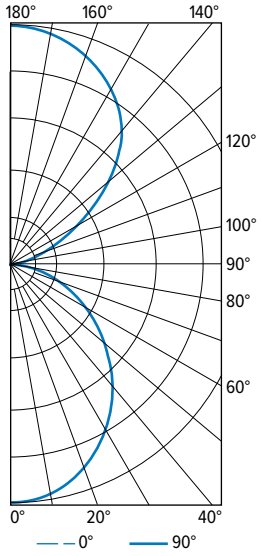
DOWN







MX4UDC-4′00-L8/835U/L8/835D-F/F-DIM Total Luminaire Output: 6,665 lumens; 54.2 Watts | Efficacy: 123 lm/W | 80 CRI; 3500K CCT



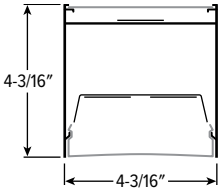
CANDLEPOWER DISTRIBUTION					
	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1312	1312	1312	
	5	1325	1299	1297	124
	15	1267	1238	1236	350
	25	1147	1120	1111	517
	35	982	959	950	601
	45	792	772	763	597
	55	590	576	570	517
	65	401	392	387	387
	75	208	208	208	221
	85	55	57	59	64
	90	0	0	0	
	95	46	36	24	41
	105	148	140	125	147
	115	307	295	280	295
	125	563	554	544	495
	135	848	846	840	648
	145	1047	1041	1028	649
	155	1175	1161	1151	536
	165	1263	1248	1244	353
	175	1310	1291	1287	123
	180	1299	1299	1299	

LUMEN SUMMARY			
	ZONE	LUMENS	% FIXTURE
	0 - 30	991	15
	0 - 40	1592	24
	0 - 60	2706	41
	0 - 90	3378	51
	90 - 120	483	7
	90 - 130	978	15
	90 - 150	2275	34
	90 - 180	3287	49
	0 - 180	6664	100

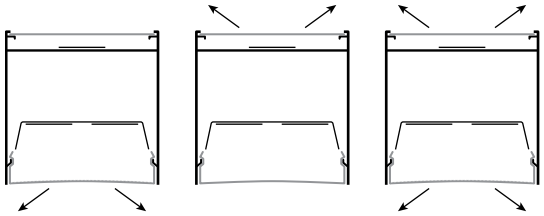
MX4UDC LED
4″ Compact Continuous Up/Down – Suspended

CROSS SECTIONS

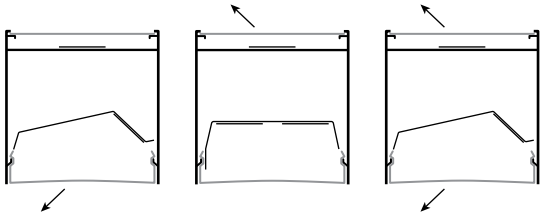
FLAT (F)



WIDESPREAD (FW)

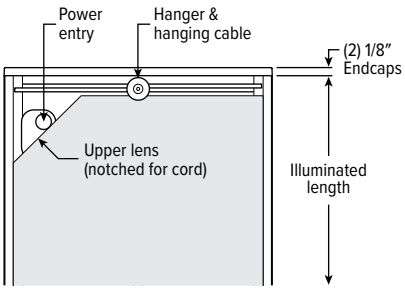


ASYMMETRIC (FA)

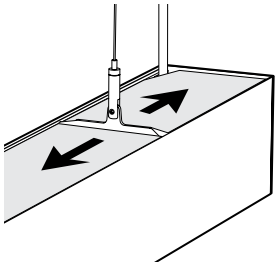


MOUNTING DETAILS

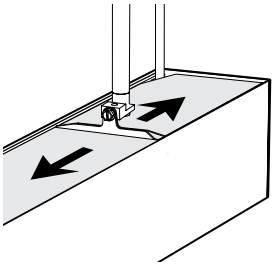
BACK VIEW



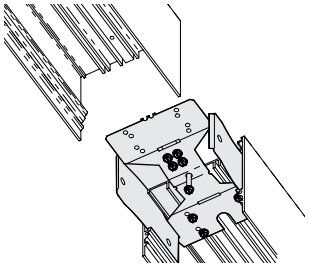
AIRCRAFT CABLE



MICROSTEM



ROW ALIGNMENT SYSTEM

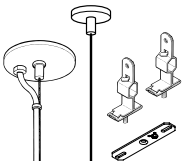


Row mount accessories can be repositioned along the length of the channel, providing flexible mounting locations to suit any application.

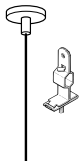
Power cord does not run through microstem.

Installer friendly row aligners ensure seamless joining between fixtures while factory installed pull plate locks extrusions in place.

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

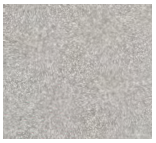
FINISH OPTIONS

WHITE

BLACK

BRONZE

NICKEL



SILVER

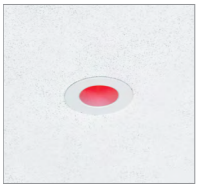
ALUM

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.

REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

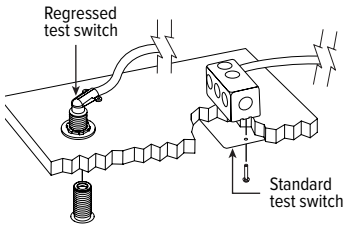


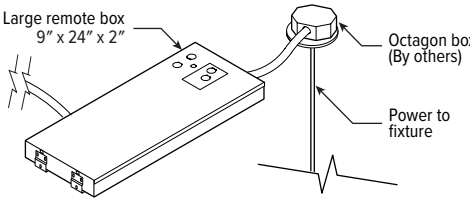
Regressed test switch
ø1-3/4″

EM/10WRM

Standard test switch
2-3/4″ x 4-1/2″

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

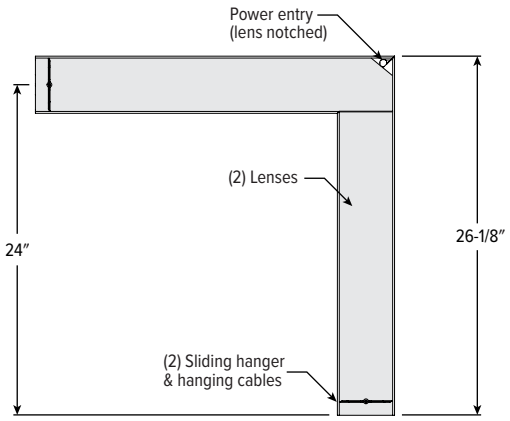




MX4UDC LED
4″ Compact Continuous Up/Down – Suspended

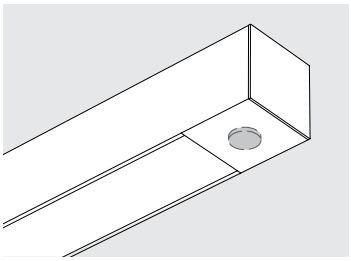
FIXTURE DETAILS

CORNERS



Left back view shown. Corner orientation determined in field.
Feeder corner end cap shipped separately.

SENSOR & NODE PLACEMENT



ADDITIONAL DRIVER OPTIONS

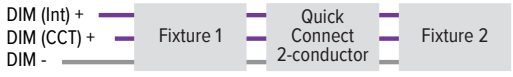
Note: Restrictions may apply, consult product builder at hew.com/product-builder

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 portions 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 portion only
DIMU/DRVD [1]	Up and down portions switch separately; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only
DIMU/DIMD	Driver with external dimming wires prewired for 0-10V low voltage applications; up and down portions switch and dim separately
DRVDIMU [1]	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on up portion only
DRVDIMD [1]	Entire fixture switches together; driver with external dimming wires prewired for 0-10V low voltage applications on down portion only
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)
DIM LINEU/DIM LINED [1]	Line voltage switching and line voltage dimming; up and down portions switch separately
DIM LINEU/DRVD [1]	Up and down portions switch separately; line voltage dimming on up portion only
DRVU/DIM LINED [1]	Up and down portions switch separately; line voltage dimming on down portion 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