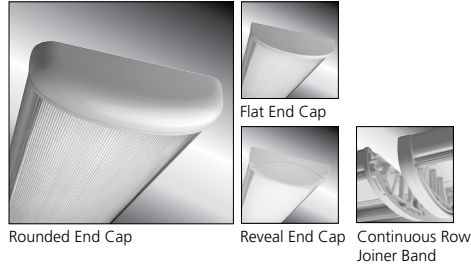


# MILLENIUM STRETCH™

## MLHA12 SERIES – STRAIGHT CONTINUOUS RUN

### PRODUCT FEATURES:

- » Surface mount – ceiling or wall; 12" x 48"
- » Continuous row mount luminaires
- » ADA compliant
- » Peace of Mind Guarantee® against breakage



### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

### SPECIFICATIONS

**HOUSING:** Marine grade aluminum. Extruded body with die-cast end caps. Housing, with end caps, post assembly TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering Information for finishes. Each linear run of luminaires consists of one Beginning of Run Luminaire (B), one or multiple Middle Luminaire(s) (M), and one End of Run Luminaire (E). Specify and/or order systems per linear run (i.e. (1)B48, (5)M48, (1)E48). NOTE: Contact factory for custom lengths.

**LENS:** UV-stabilized, high impact extruded clear or pearlescent polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness .156". Lens securely positioned in body channels and end caps. Lens locked in place with tamper-resistant stainless steel Torx® with center pin fasteners and sealed with closed cell gaskets.

**END CAPS:** Marine grade die-cast aluminum. Three styles available: Flat, Rounded and Reveal. Conduit and "Wiremold™" ready" knockouts visible only from interior of end cap (Flat and Rounded styles only).

**REFLECTOR:** Full reflector/wire cover – 92% reflectivity.

**SOCKETS:** Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

**HARDWARE:** Four stainless steel, tamper-resistant Torx® with center pin fasteners secure lens in housing body's lens channel. Electrical Quick Connector supplied (Specify Circuit Qty, see below).

**ELECTRICAL:** LED: Available 3500K, 4000K and 5000K color temperatures, 82 CRI. 120-277VAC and 347VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; maximum driver source of 330µA. LF: Class P ballasts. Fluorescent electronic 120/277/347 and dual voltage ballasts high power factor.

**INSTALLATION:** Standard six-point mounting per fixture required for Peace of Mind Guarantee®.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

**WARRANTY:** limited ten (10) year LED warranty. Peace of Mind Guarantee against breakage.

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for non-IC and Wet Location installations. IP64 rating per IEC60598 – ceiling mount. ADA compliant. Corner, horizontal wall and pendant mount installation – Damp Location only. Suitable for use as a raceway. Suitable for use in continuous row.



### ORDERING INFORMATION (Ex: MLHA12S-B48-2/M48-E48-R-MW-PP-45L40K-DCC-120-FS)

Model	Begin. Hsg.	Mid. Hsg.	End. Hsg.	End Cap	Finish	Lens	Lamp Qty	Lamp Type	Ballast/Driver	Circuit Qty	Voltage	Options
<b>MLHA12S</b>	<b>B48</b>	<b>/M48</b>	<b>E48</b>									

<b>Beginning of Run Housing Style</b> B48 Nominal 48" housing	<b>Lamp Quantity (Cross Section)†</b> 1 One 2 Two 3 Three 4 Four	<b>Circuit Quantity†</b> 1 One 2* Two	<b>Accessories</b> CMB§ Corner Mount Bracket (Must be ordered with DL Option) 9500 Torx Screwdriver D-0552 Torx Driver Bit (Required for CMB Option)
<b>Middle Fixture(s) Housing Style</b> (replace "x" with qty) (x)/M48 Nominal 48" housing(s)		<b>Voltage</b> 120 120 Volts 277 277 Volts 347 347 Volts DV 120-277 Volts	* One lamp maximum in emergency mode † n/a with LED Lamp Options ‡ n/a with T5HO if EL/PEL option ordered with PM or UC option § PM and CMB not available in conjunction
<b>Ending of Run Housing Style</b> E48 Nominal 48" housing	<b>Lamp Type</b> 45L35K 45 Watt 3500K LED 45L40K 45 Watt 4000K LED 45L50K 45 Watt 5000K LED 67L35K 67 Watt 3500K LED 67L40K 67 Watt 4000K LED 67L50K 67 Watt 5000K LED 90L35K 90 Watt 3500K LED 90L40K 90 Watt 4000K LED 90L50K 90 Watt 5000K LED	<b>Options</b> 1RW First Isolated Raceway 2RW Second Isolated Raceway (2 fluorescent lamps only) CDF Captive Diffuser Fasteners DL Damp Location (Interior use NO gasketing) EL*† 500 Minimum Lumen Battery Pack – Specify Qty (n/a 347V; 90 Minutes; 32°F Starting Temperature) PEL*† 1100 Minimum Lumen Battery Pack – Specify Qty (n/a 347V; 90 Minutes; 32°F Starting Temperature) LEL Integral 8.4W Emergency Battery Backup (45L max, 0°C minimum operating temperature, n/a with 347V)	
<b>End Caps</b> R Rounded F Flat RV Reveal	28 F28T5 (rapid start only) 32 F32T8 44 F48T8HO (2 lamp only) 54 F54T5HO (rapid start only) 54A F54T5HO amalgam (rapid start only)	FS Single Fuse & Holder NAT Natatorium Environment Option PH Phillips Head Fasteners PM§ Pendant Mount (Max. 3/8NPT stems by others; damp only) UC† Uplight Component (Pendant Mount only; stems by others; damp only) XC Auxiliary Circuit	
<b>Finish</b> MW Matte White MB Matte Black LG Light Gray CC Custom Color (Consult Factory)	<b>Ballast/Driver Type</b> DCC Dimming Constant Current (LED) IS Instant Start Electronic <10% THD (T8, T8HO) RS Rapid Start Electronic <10% THD (T8, T8HO, T5, T5HO) SB Specified Ballast		
<b>Lens</b> CP† Clear Polycarbonate PP Pearlescent Polycarbonate			



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# MILLENIUM STRETCH™

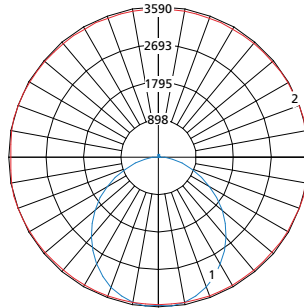
## MLHA12 SERIES – STRAIGHT CONTINUOUS RUN

### PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	@ 25°C	Efficacy (lm/W)			
45L35K	5,014	102	49	100	175,000
45L40K	5,345	109	49	100	175,000
45L50K	5,345	109	49	100	175,000
67L35K	7,717	106	73	75	175,000
67L40K	8,227	113	73	75	175,000
67L50K	8,227	113	73	75	175,000
90L35K	9,894	101	98	100	175,000
90L40K	10,548	108	98	100	175,000
90L50K	10,548	108	98	100	175,000

Information above is valid for the recommended Type PP lens type and is subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

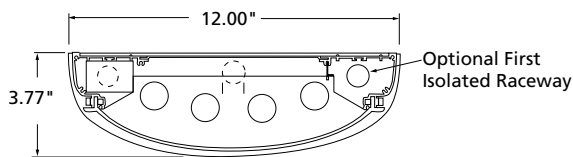
Model: MLHA12-48-F-MW-PP-90L40K-DCC-1-DV



Maximum Candela = 3590 Located At Horizontal Angle = 15, Vertical Angle = 5

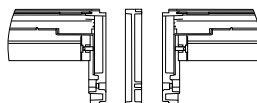
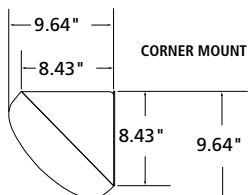
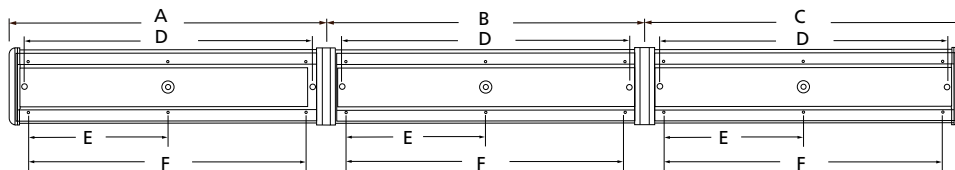
- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA



#### Nominal Four Foot Fixture Legend

LMP	End Cap	A	B	C	D	E	F
T8/LED	R	50.23	49.34	50.23	46.31	22.50	45.00
T8/LED	F	49.32	49.34	49.32	46.31	22.50	45.00
T8/LED	RV	51.59	49.34	51.59	46.31	22.50	45.00
T5	R	48.27	47.37	48.27	44.35	22.25	44.50
T5	F	47.36	47.37	47.36	44.35	22.25	44.50
T5	RV	49.63	47.37	49.63	44.35	22.25	44.50



JOINER BAND – REQUIRED FOR ROW MOUNTING (SUPPLIED)



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