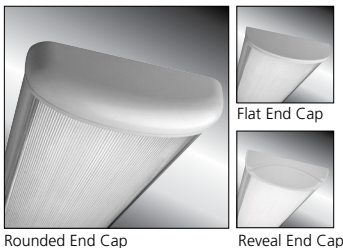


# MILLENIUM STRETCH™ MLHA12 SERIES

## PRODUCT FEATURES:

- » Surface mount – ceiling or wall; 12"×24", 12"×36", 12"×48", 12"×72", 12"×96"
- » Extruded aluminum housing with decorative end caps
- » Peace of Mind Guarantee® against breakage
- » ADA compliant



## 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 standard, optional, architectural and custom finishes.

**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: Flat, Rounded and Reveal. Conduit and "Wiremold™ ready" knockouts visible only from interior of end cap (Flat and Rounded styles only).

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

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

**HARDWARE:** Stainless steel, tamper-resistant Torx fasteners secure lens in housing body's lens channel (four on 24", 36", and 48" housings; eight on 72" and 96" housings).

**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 660µA. Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time out, dims down to 30%. LE: Class P ballasts. Fluorescent electronic 120/277/347 and dual voltage ballasts high power factor.

**INSTALLATION:** Standard four-point (24" housing) six-point (36" and 48" housings) and twelve-point (72" and 96" housing) mounting required for Peace of Mind Guarantee®.

**TEKLINK™ TL50:** An independent lighting control system embedded in the luminaire, featuring its own occupancy sensor, daylight harvesting and adjustable time-out/dimming settings.

**TEKLINK™ TL100:** Centralized, wired zonal occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and ordered separately for luminaire. [Click here for specifications.](#)

**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](http://www.kenall.com). LED product ambient temperature is -30°C to 40°C, unless otherwise noted.

**WARRANTY:** Limited ten (10) year warranty for LED Lamps.

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for non-IC and Wet Location installations. IP64 rating per IEC60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – damp location only. ADA compliant.



In Stock SKU	
MLHA12-48-R-MW-PP-45L40K-DCC-1-DV	MLHA12-48-F-MW-PP-45L40K-DCC-1-DV

## ORDERING INFORMATION (Ex: MLHA12-48-F-MB-PP-90L40K-DCC-DV-FS-9500)

Model	Length	End Cap	Finish	Lens	Lamp Qty	Lamp Type	Ballast/Driver	Circuit Qty	Voltage	Options	Accessories	TekLink	Controls Kit
<b>MLHA12</b>													< >

<b>Length</b>	<b>Lamp Type</b>	<b>Ballast/Driver Type</b>	<b>Options (Continued)</b>
24 2'	<b>2' Lengths</b>	<b>DCC</b> Dimming Constant Current (LED)	<b>UC‡</b> Uplight Component (Pendant Mount only; stems by others; damp only)
36 3'	<b>25L35K</b> 25 Watt 3500K LED	<b>IS</b> Instant Start Electronic <10% THD (T8,T8HO)	<b>MS</b> Motion Sensor (4' LED only) (n/a with 347 Voltage Option)
48 4'	<b>25L40K</b> 25 Watt 4000K LED	<b>RS</b> Rapid Start Electronic <10% THD (T8,T8HO,T5,T5HO)	
72 Two 3' (factory connected)	<b>25L50K</b> 25 Watt 5000K LED	<b>SB</b> Specified Ballast	
96 Two 4' (factory connected)	<b>45L35K</b> 45 Watt 3500K LED		
	<b>45L40K</b> 45 Watt 4000K LED	<b>Circuit Quantity‡</b>	<b>Accessories</b>
<b>End Caps</b>	<b>45L50K</b> 45 Watt 5000K LED	<b>1</b> One	<b>CMB§</b> Corner Mount Bracket (Must be ordered with DL Option)
<b>F</b> Flat	<b>14</b> F14T5	<b>2†</b> Two (Two Ballast Minimum)	<b>9500</b> Torx® Screwdriver
<b>R</b> Rounded	<b>17</b> F17T8		<b>D-0552</b> Torx Driver Bit (Required for CMB Option)
<b>RV</b> Reveal	<b>24▲</b> F24T5HO	<b>Voltage</b>	<b>TekLink</b>
		<b>120</b> 120 Volts	<b>TL50*</b> TL50 Control System ( <a href="#">Click here for specifications</a> )
<b>Finish</b>	<b>3' Lengths</b>	<b>277</b> 277 Volts	<b>TL100</b> TL100 Control System ( <a href="#">Click here for specifications</a> )
<b>LG</b> Light Gray	<b>21</b> F21T5	<b>347</b> 347 Volts (Consult Factory)	
<b>MB</b> Matte Black	<b>25</b> F25T8	<b>DV</b> 120-277 Volts	Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.
<b>MW</b> Matte White	<b>39</b> F39T5HO		<b>Controls Kit</b>
<b>CC</b> Custom Color (Consult Factory)	<b>4' Lengths</b>	<b>Options</b>	< > Factory Assigned Internal Code
	<b>45L35K</b> 45 Watt 3500K LED	<b>EL‡</b> 500 Minimum Lumen Battery Pack (90 Minutes; 32°F Starting Temperature)	† n/a on 2' T5/T5HO or 3' T5HO fixtures with EL, PEL, or TN options.
<b>Lens</b>	<b>45L40K</b> 45 Watt 4000K LED	<b>PEL‡</b> 1100 Minimum Lumen Battery Pack (90 Minutes; 32°F Starting Temperature)	▲ n/a with 347V
<b>CP‡</b> Clear Polycarbonate	<b>45L50K</b> 45 Watt 5000K LED	<b>LEL</b> Integral 8.4W Emergency Battery Backup (4' only, 45L max, 0°C minimum operating temperature, n/a with 347V)	● 347V available with EL and PEL options only with two T8 lamps
<b>PP</b> Pearlescent Polycarbonate	<b>67L35K</b> 67 Watt 3500K LED	<b>CDF</b> Captive Diffuser Fasteners	▼ 2' Fixtures have minimum 350-450 lumen battery pack
	<b>67L40K</b> 67 Watt 4000K LED	<b>DL</b> Damp Location (Interior use NO gasketing)	■ n/a on 2' fixtures
<b>Lamp Quantity (Cross Section)‡</b>	<b>67L50K</b> 67 Watt 5000K LED	<b>FS</b> Single Fuse & Holder (one per circuit)	‡ n/a with LED Lamp Options
<b>1</b> One	<b>90L35K</b> 90 Watt 3500K LED	<b>NAT</b> Natatorium Environment Option	§ PM and CMB not available in conjunction
<b>2</b> Two	<b>90L40K</b> 90 Watt 4000K LED	<b>PH</b> Phillips Head Fasteners	* LED only. N/A with with PM or CMB options. N/A with 72" or 96" length.
<b>3</b> Three	<b>90L50K</b> 90 Watt 5000K LED	<b>PM§</b> Pendant Mount (Max. 3/8NPT stems by others; damp only)	
<b>4</b> Four	<b>150L35K</b> 150 Watt 3500K LED	<b>PN‡</b> Twin Tube Night Light – 5/7/9 watts (120V only)	
	<b>150L40K</b> 150 Watt 4000K LED		
	<b>150L50K</b> 150 Watt 5000K LED		
	<b>28</b> F28T5		
	<b>32</b> F32T8		
	<b>44</b> F48T8HO (2 lamp only)		
	<b>54</b> F54T5HO		
	<b>54A</b> F54T5HO amalgam		



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# MILLENNIUM STRETCH™

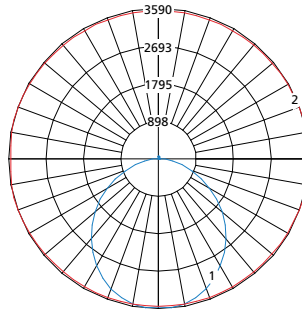
## MLHA12 SERIES

### PERFORMANCE

Length	Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
		@ 25°C	Efficacy (lm/W)			
2'	25L35K	2,507	100	25	100	175,000
	25L40K	2,673	107	25	100	175,000
	25L50K	2,673	107	25	100	175,000
	45L35K	5,014	102	49	100	175,000
	45L40K	5,345	109	49	100	175,000
	45L50K	5,345	109	49	100	175,000
4'	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
	150L35K	15,534	93	167	113	130,000
	150L40K	16,561	99	167	113	130,000
	150L50K	16,561	99	167	113	130,000

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

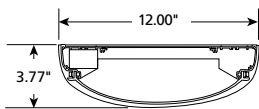


Maximum Candela = 3590 Located At Horizontal Angle = 15, Vertical Angle = 5

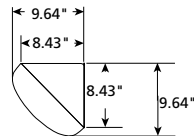
- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA

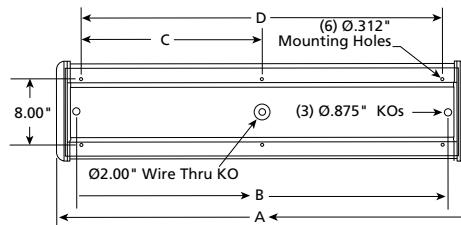
#### CROSS SECTION/DETAILS



#### CORNER MOUNT BRACKET



#### MOUNTING HOLES



Nominal Three Foot Fixture Legend				
LMP	End Cap	A	B	D
T8	R	39.132	34.312	33.000
T8	F	37.308	34.312	33.000
T8	RV	41.840	34.312	33.000
T5	R	37.359	32.540	32.688
T5	F	35.523	32.540	32.688
T5	RV	40.067	32.540	32.688

Nominal Two Foot Fixture Legend				
LMP	End Cap	A	B	D
T8	R	27.132	22.312	21.000
T8	F	25.308	22.312	21.000
T8	RV	29.840	22.312	21.000
T5	R	25.548	20.728	20.875
T5	F	23.724	20.728	20.875
T5	RV	28.256	20.728	20.875

Nominal Four Foot Fixture Legend				
LMP	End Cap	A	B	D
T8/LED	R	51.132	46.312	45.000
T8/LED	F	49.308	46.312	45.000
T8/LED	RV	53.840	46.312	45.000
T5	R	49.170	44.350	44.500
T5	F	47.346	44.350	44.500
T5	RV	51.878	44.350	44.500



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