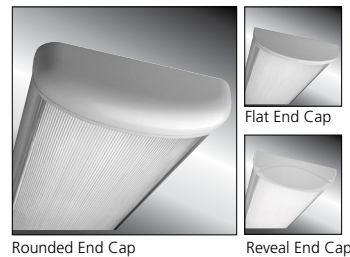


# MILLENIUM STRETCH™

## MLHA12 SERIES

### PRODUCT FEATURES:

- » 12" linear surface mount luminaire with multiple length options
- » Extruded aluminum housing with decorative end caps
- » Low-profile –ADA compliant
- » Peace of Mind Guarantee® against breakage



### SPECIFICATIONS

**HOUSING:** Extruded marine grade aluminum body with die-cast aluminum end caps. Closed cell EPDM and silicone gasketing along lens channel and end caps. TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering Information for available finishes.

**OPTIC:** UV-Stabilized, high-efficiency diffused polycarbonate with smooth exterior and linear prismatic interior. Lens securely positioned in body channels and endcaps, locked into place with concealed tamper-resistant Torx® T-20 with center pin fasteners.

**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).

**HARDWARE:** Stainless steel, tamper-resistant Torx T-20 with center pin fasteners secure lens in housing body's lens channel (four on 48" length; eight on 96" length).

**LED MODULE:** Serviceable mid-power LED array. Minimum 80 CRI standard (R9>0), consult factory for optional 90CRI (R9>50). Maximum three-step MacAdam ellipse variation. See Ordering Information for available color temperature options.

**DRIVER:** 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; 0.4mA maximum source current.

**CONTROLS:** TekLink™ TL50 is an independent lighting control system integral to the luminaire, featuring its own embedded occupancy sensor and adjustable time-out/dimming settings and a closed-loop daylight harvesting function for maximum energy savings. TekLink™ TL100 is a centralized, wired zonal occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and are ordered separately from the luminaire(s). Click here for specifications. **MS Option:** Optional embedded microwave motion sensor mounted behind the diffuser. Remote adjustment for dim level, timeout period and sensor sensitivity settings. Factory default is 30% dimming and 20min. timeout. Sensor operates at 5.8 GHz (continuous-wave radar) and provides 360° coverage at various mounting heights and coverage areas. Available with compatible third party controls. To see the full list of compatible controls, [click here](#).

**INSTALLATION:** Surface ceiling, vertical or horizontal wall, corner mount (CMB) or suspended pendant mounting (PM). Standard four-point mounting (24" length), six-point mounting (48" length) or twelve-point mounting (96" length) required for Peace of Mind Guarantee®. Suitable for -30°C to 40°C ambient environments, unless otherwise noted.

**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).

**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 Wet Location installations. IP64 rating per IEC60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – Damp Location only. ADA compliant. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08. Build America Act compliant.



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

Model	Length	End Cap	Finish	Lens	Lamp Code	Driver Type	Voltage	Options	Accessories	TekLink	Controls Kit
<b>MLHA12</b>				<b>PP</b>		<b>DCC</b>					< >
<b>Length</b>	24 2'					<b>Driver Type</b>			<b>Accessories</b>		
	48 4'					<b>DCC</b>	0-10V Dimming Constant Current		<b>CMB</b> §	Corner Mount Bracket	
	96 Two 4' (factory connected)					<b>Input Voltage</b>				(Must be ordered with DL Option)	
<b>End Caps</b>						<b>DV</b>	120-277 VAC, 50/60Hz		<b>TekLink</b>		
<b>F</b>	Flat			<b>Lens</b>		<b>347</b>	347 VAC, 60Hz		<b>TL50*</b>	TL50 Control System	
<b>R</b>	Rounded			<b>PP</b>	Pearlescent Polycarbonate	<b>Options</b>				(Click here for specifications)	
<b>RV</b>	Reveal			<b>Lamp Code</b>		<b>LEL</b> ▲	Integral 10W Emergency Battery Backup			(Click here for specifications)	
				<b>2' Lengths</b>			(4' only, 45L max, 0°C minimum operating temperature)		<b>TL100</b>	TL100 Control System	
				<b>25L35K</b>	25 Watt 3500K LED	<b>CDF</b>	Captive Diffuser Fasteners			(Click here for specifications)	
				<b>25L40K</b>	25 Watt 4000K LED	<b>DL</b>	Damp Location (Interior use NO gasketing)		Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.		
				<b>25L50K</b>	25 Watt 5000K LED	<b>FS</b>	Single Fuse & Holder				
				<b>45L35K</b>	45 Watt 3500K LED	<b>NAT</b>	Natatorium Environment Option				
				<b>45L40K</b>	45 Watt 4000K LED	<b>PH</b>	Phillips Head Fasteners				
				<b>45L50K</b>	45 Watt 5000K LED	<b>PM</b> §	Pendant Mount (max 3/8" NPT stems, by others; damp only)				
				<b>4' Lengths</b>		<b>MS</b> ▲	Motion Sensor (4' Length only)				
				<b>45L35K</b>	45 Watt 3500K LED	<b>NLW</b> ▲	2700K White LED Night Light				
				<b>45L40K</b>	45 Watt 4000K LED	<b>NLA</b> ▲	Amber LED Night Light				
				<b>45L50K</b>	45 Watt 5000K LED						
				<b>67L35K</b>	67 Watt 3500K LED						
				<b>67L40K</b>	67 Watt 4000K LED						
				<b>67L50K</b>	67 Watt 5000K LED						
				<b>90L35K</b>	90 Watt 3500K LED						
				<b>90L40K</b>	90 Watt 4000K LED						
				<b>90L50K</b>	90 Watt 5000K LED						
				<b>150L35K</b>	150 Watt 3500K LED						
				<b>150L40K</b>	150 Watt 4000K LED						
				<b>150L50K</b>	150 Watt 5000K LED						



# MILLENIUM STRETCH™

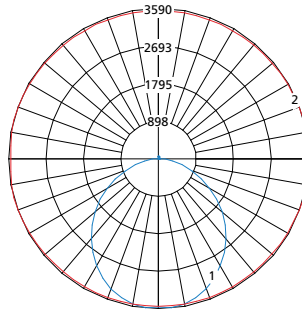
## MLHA12 SERIES

### 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

Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information. Information is subject to change without notice.

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

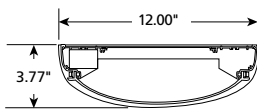


Maximum Candela = 3590 Located At Horizontal Angle = 15, Vertical Angle = 5

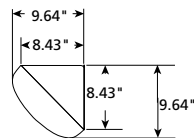
- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA

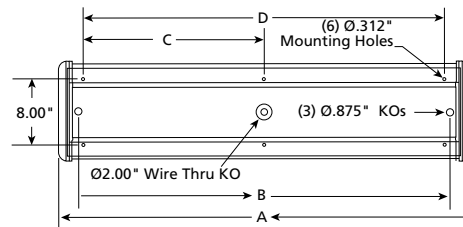
#### CROSS SECTION/DETAILS



#### CORNER MOUNT BRACKET



#### MOUNTING HOLES



#### Nominal Two Foot Fixture Legend

End Cap	A	B	C	D
R	27.132	22.312	N/A	21.000
F	25.308	22.312	N/A	21.000
RV	29.840	22.312	N/A	21.000

#### Nominal Four Foot Fixture Legend

End Cap	A	B	C	D
R	51.132	46.312	22.500	45.000
F	49.308	46.312	22.500	45.000
RV	53.840	46.312	22.500	45.000



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