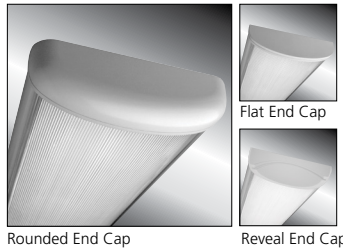


MILLENNIUM STRETCH™

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. LED product ambient temperature is -30°C to 40°C, unless otherwise noted.

WARRANTY: Limited ten (10) year warranty for LED Lamps. [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. 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
MLHA12													

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



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MILLENNIUM STRETCH™

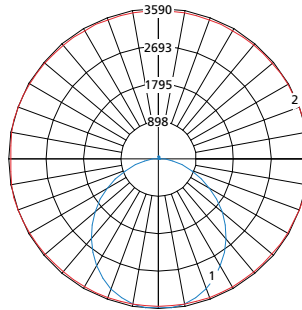
MLHA12 SERIES

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 for IES files and additional information.

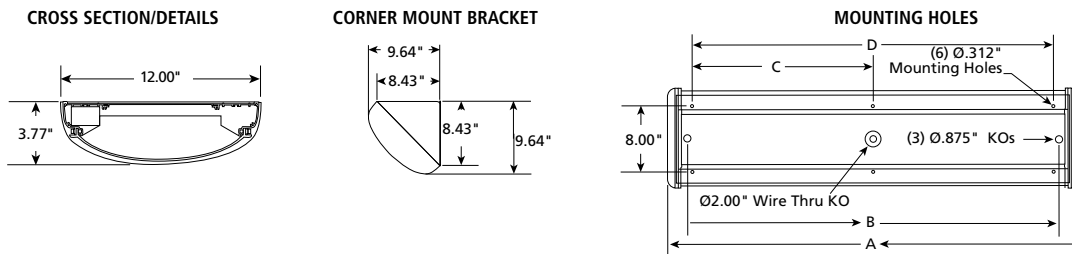
Model: MLHA12-48-F-MW-PP-90L40K-DCC-1-DV



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



LMP	End Cap	A	B	C	D
T8	R	39.132	34.312	16.500	33.000
T8	F	37.308	34.312	16.500	33.000
T8	RV	41.840	34.312	16.500	33.000
T5	R	37.359	32.540	16.344	32.688
T5	F	35.523	32.540	16.344	32.688
T5	RV	40.067	32.540	16.344	32.688

LMP	End Cap	A	B	C	D
T8	R	27.132	22.312	N/A	21.000
T8	F	25.308	22.312	N/A	21.000
T8	RV	29.840	22.312	N/A	21.000
T5	R	25.548	20.728	N/A	20.875
T5	F	23.724	20.728	N/A	20.875
T5	RV	28.256	20.728	N/A	20.875

LMP	End Cap	A	B	C	D
T8/LED	R	51.132	46.312	22.500	45.000
T8/LED	F	49.308	46.312	22.500	45.000
T8/LED	RV	53.840	46.312	22.500	45.000
T5	R	49.170	44.350	22.250	44.500
T5	F	47.346	44.350	22.250	44.500
T5	RV	51.878	44.350	22.250	44.500



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