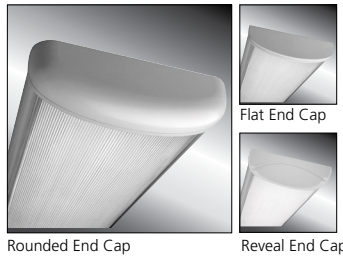# MILLENIUM STRETCH™
MLHA12 SERIES

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

Flat End Cap

Reveal End Cap

Rounded End Cap

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 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 T-20 with center pin 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%. LF: 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®.

SENSOR & CONTROLS: Optional sensor available with compatible third party controls. To see the full list of compatible controls, click here.

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. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.

LED **PEACE OF MIND Guarantee®** **ETL** c...us **IP64** **ADA** **IK10**

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				PP									< >

Length
24	2'
36	3'
48	4'
72	Two 3' (factory connected)
96	Two 4' (factory connected)

End Caps
F	Flat
R	Rounded
RV	Reveal

Finish
LG	Light Gray
MB	Matte Black
MW	Matte White
CC	Custom Color (Consult Factory)

Lens
| PP | Pearlescent Polycarbonate |

Lamp Quantity (Cross Section)‡
1	One
2	Two
3	Three
4	Four

Lamp Type

2' Lengths
25L35K	25 Watt 3500K LED
25L40K	25 Watt 4000K LED
25L50K	25 Watt 5000K LED
45L35K	45 Watt 3500K LED
45L40K	45 Watt 4000K LED
45L50K	45 Watt 5000K LED
14	F14T5
17	F17T8
24▲	F24T5HO

3' Lengths
21	F21T5
25	F25T8
39	F39T5HO

4' Lengths
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
150L35K	150 Watt 3500K LED
150L40K	150 Watt 4000K LED
150L50K	150 Watt 5000K LED
28	F28T5
32	F32T8
44	F48T8HO (2 lamp only)
54	F54T5HO
54A	F54T5HO amalgam

Ballast/Driver Type
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

Circuit Quantity‡
| 1 | One |
| 2† | Two (Two Ballast Minimum) |

Voltage
120	120 Volts
277	277 Volts
347	347 Volts (Consult Factory)
DV	120-277 Volts

Options
EL▼‡	500 Minimum Lumen Battery Pack (90 Minutes; 32°F Starting Temperature)
PEL■‡	1100 Minimum Lumen Battery Pack (90 Minutes; 32°F Starting Temperature)
LEL	Integral 10W Emergency Battery Backup (4' only, 45L max, 0°C minimum operating temperature, n/a with 347V)
CDF	Captive Diffuser Fasteners
DL	Damp Location (Interior use NO gasketing)
FS	Single Fuse & Holder (one per circuit)
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)
MS	Motion Sensor (4' LED only) (n/a with 347 Voltage Option)

Options (Continued)
| NLW∞ | 2700K White LED Night Light |
| NLA∞ | Amber LED Night Light |

Accessories
| CMB§ | Corner Mount Bracket (Must be ordered with DL Option) |

TekLink
| TL50* | TL50 Control System (n/a with 347V) (Click here for specifications) |
| TL100 | TL100 Control System (Click hee for specifications) |

Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.

Controls Kit
| < > | Factory Assigned Internal Code |

† n/a on 2' T5/T5HO or 3' T5HO fixtures with EL, PEL, or TN options.

▲ n/a with 347V

● 347V available with EL and PEL options only with two T8 lamps

▼ 2' Fixtures have minimum 350-450 lumen battery pack

■ n/a on 2' fixtures

‡ n/a with LED Lamp Options

§ PM and CMB not available in conjunction

* LED only. N/A with with MS or CMB options. N/A with 72" or 96" length.

∞ LED only. n/a with 347V

MILLENIUM STRETCH™

MLHA12 SERIES

PERFORMANCE

Length	Lamp Type	Initial Delivered Lumens @ 25°C	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L₇₀ LED Life (Hrs)
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.
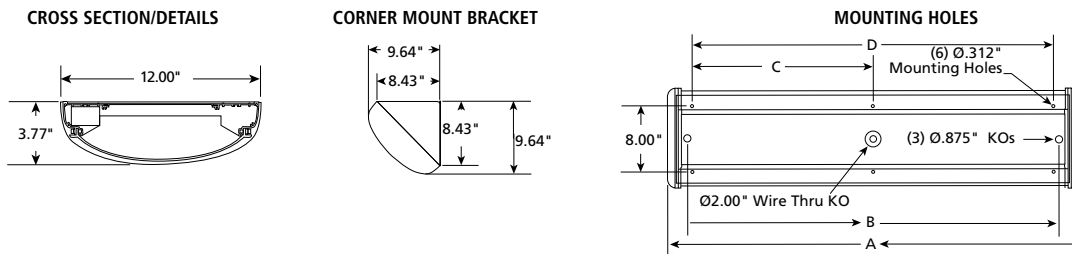Visit www.kenall.com for IES files and additional information.

Model: MLHA12-48-F-MW-PP-90L40K-DCC-1-DV
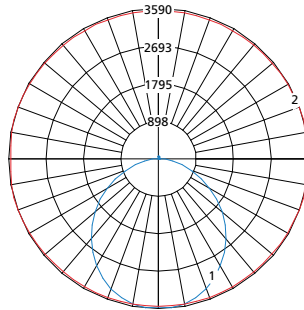
Maximum Candela = 3590 Located At Horizontal Angle = 15, Vertical Angle = 5

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

DIMENSIONAL DATA

CROSS SECTION/DETAILS

12.00"
3.77"

CORNER MOUNT BRACKET

9.64"
8.43"
8.43"
9.64"

MOUNTING HOLES

D
C
(6) Ø.312" Mounting Holes
8.00"
(3) Ø.875" KOs
Ø2.00" Wire Thru KO
B
A

Nominal Three Foot Fixture Legend					
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

Nominal Two Foot Fixture Legend					
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

Nominal Four Foot Fixture Legend					
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