MILLENIUM STRETCH™ MLHA12 SERIES - TUNABLE WHITE LED

PRODUCT FEATURES:

- » High-output, high CRI LED lamp sources with 2700K-6500K white tuning capability
- » Extruded and die-cast aluminum construction
- » Peace of Mind Guarantee® against breakage



	PROJECT INFORMATION					
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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 available finishes

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).

OPTIC: 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 four (4) tamper-resistant stainless steel Torx® T-20 with center pin fasteners and sealed with closed cell gaskets. Full reflector/wire cover with 92% reflectivity.

LED MODULE: Serviceable tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 82 CRI standard (R9 > 20) with optional minimum 90 CRI (R9 > 50)

DRIVER: 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. Serviceable, constant-current multi-channel programmable driver with dual analog (0-10V) control inputs for intensity and CCT. Optional DALI (Type 8) driver. Logarithmic intensity profile with 0.1-100% range, with dim-to-dark capabilities. Linear profile on CCT adjustment. Refer to charts on page 2 for further details.

INSTALLATION: Standard six-point mounting required for Peace of Mind Guarantee®. Suitable for installation into -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.

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 Laboratory for Wet Location — covered ceiling mount. ETL certified IP64 per IEC 60598. Corner, horizontal wall and pendant mount installation are Damp Location only. ADA compliant.













ORDERING INFORMATION (Ex: MLHA12-48-F-MW-R-PP-90T-27/65K8-ATW-DV-FS)

Model End Cap Driver Type Length Finish Lamp Power Lamp Color Lens Voltage Options Accessories 48 PP MLHA12 Length **Lamp Power** Input Voltage 48 45T 45W Tunable White 120-277 Volts, 50/60Hz 67T 67W Tunable White **End Caps** 90T 90W Tunable White Options Flat LÉL Integral 10W Emergency Battery Backup R (45T lamp max, 0°C minimum operating temperature) Rounded Lamp Color 27/65K8 2700-6500K CCT Range (82 CRI min) CDF Captive Diffuser Fasteners RV Reveal 27/65K9 2700-6500K CCT Range (92 CRI min) DL Damp Location (Interior use NO gasketing) Single Fuse & Holder (one per circuit) Finish Phillips Head Fasteners Light Gray **Driver Type** LG MB Matte Black ATW Analog (0-10V) Dimming Tunable White Driver Pendant Mount (Max. 3/8NPT stems by others; damp only) РМδ MW Matte White DTW DALI Tunable White Driver 2700K White LED Night Light (controlled independently of Tunable CC Custom Color (Consult Factory) DMX DMX Tunable White Driver (Consult Factory)

Lens Type

PP Pearlescent Polycarbonate

Accessories

White driver)

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

Amber LED Night Light ((controlled independently of Tunable

§ PM and CMB not available in conjunction



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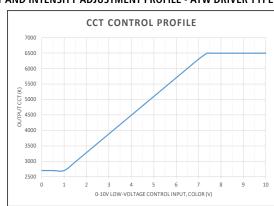
PERFORMANCE	Perfo			
Lamp Type	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
45T-27/65K8	5,129	111	46	80,000
45T-27/65K9	4,133	90	46	80,000
67T-27/65K8	7,673	113	68	80,000
67T-27/65K9	6,356	93	68	80,000
90T-27/65K8	9,966	108	92	60,000
90T-27/65K9	8,032	87	92	60,000

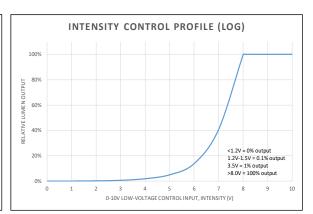
Information subject to change without notice. Visit www.kenall.com for ies files additional information.

PERFORMANCE SCALING, BY LAMP COLOR

	27/65K8				27/65K9					
CCT (K)	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	86	25	83	98	1.01	96	96	91	101
5700	0.99	85	23	82	98	0.99	96	96	91	100
6500	0.99	84	16	82	96	0.99	96	96	90	100

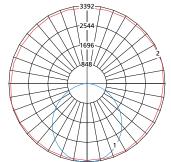
CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE





NOTE: The provided information is the typical expected performance of a single luminaire. Additional luminaires on the same 0-10V line may result in different control profiles. Fine tuning of system performance should be completed after installation is complete. To avoid CCT shift between luminaires, care should be taken to minimize voltage drop on the CCT Control line. It is recommended to limit the load on the CCT control circuit to twenty (20) 45T or ten (10) 67T/90T luminaires or less.

Model: MLHA12-48-F-MW-PP-90T-27/65K8-ATW-DV



 $\label{eq:maximum Candela} {\sf Maximum Candela} = {\sf 3392 \ Located \ At \ Horizontal \ Angle} = {\sf 15, Vertical \ Angle} = {\sf 5}$

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



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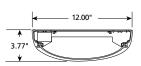
This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at www.kenall.com/patents.Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2022 Kenall Mfg.Co.

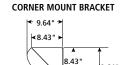
MILLENIUM STRETCH™

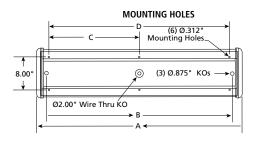
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DIMENSIONAL DATA

CROSS SECTION/DETAILS







Nominal Four Foot Fixture Legend									
End Cap	Α	В	C	D					
R	51.13	46.31	22.50	45.00					
F	49.31	46.31	22.50	45.00					
RV	53.84	46.31	22.50	45.00					