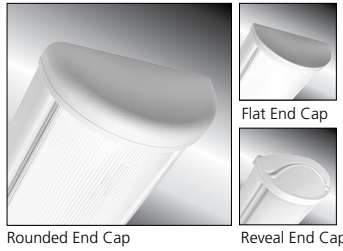


MILLENIUM STRETCH™

MLHA8 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

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 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 information, 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 in compliance with IEC 60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – damp location only. ADA compliant.



ORDERING INFORMATION (Ex: MLHA8-48-F-MW-PP-90T-27/65K8-ATW-DV-FS)

Model	Length	End Cap	Finish	Lens	Lamp Power	Lamp Color	Driver Type	Voltage	Options	Accessories
MLHA8	48			PP						
	Length 48 4'			Lens Type PP Pearlescent Polycarbonate					Options LEL Integral 10W Emergency Battery Backup (45T lamp max, 0°C minimum operating temperature)	
	End Caps F Flat R Rounded RV Reveal			Lamp Power 45T 45W Tunable White 67T 67W Tunable White 90T 90W Tunable White					CDF Captive Diffuser Fasteners DL Damp Location (Interior use NO gasketing) FS Single Fuse & Holder PH Phillips Head Fasteners PM‡ Pendant Mount (Max. 3/8NPT stems by others; damp only) NLW 2700K White LED Night Light (controlled independently of Tunable White driver)	
	Finish LG Light Gray MB Matte Black MW Matte White CC Custom Color (Consult Factory)			Lamp Color 27/65K8 2700-6500K CCT Range (82 CRI min) 27/65K9 2700-6500K CCT Range (92 CRI min)					NLA Amber LED Night Light ((controlled independently of Tunable White driver)	
				Driver Type ATW Analog (0-10V) Dimming Tunable White Driver DTW DALI Tunable White Driver DMX DMX Tunable White Driver (Consult Factory)					Accessories CMB‡ Corner Mount Bracket (Must be ordered with DL Option)	
				Input Voltage DV 120-277 Volts, 50/60Hz						‡ PM and CMB not available in conjunction



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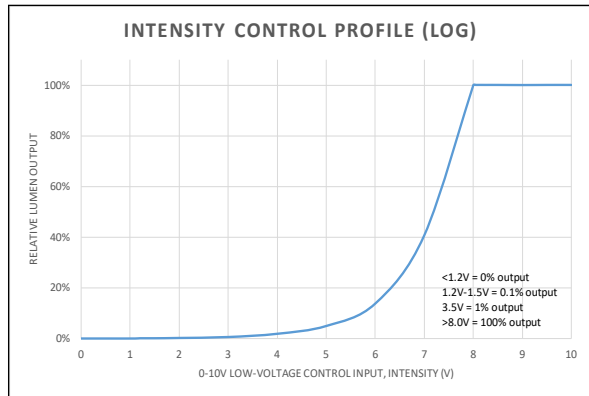
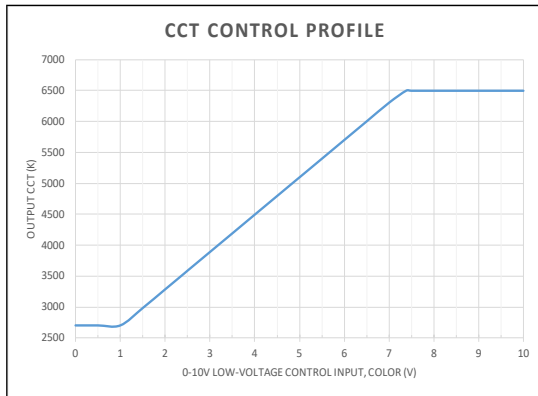
Lamp Type	Performance at 4000K Tuning			
	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
45T-27/65K8	5,037	109	46	80,000
45T-27/65K9	4,060	88	46	80,000
67T-27/65K8	7,536	111	68	80,000
67T-27/65K9	6,242	92	68	80,000
90T-27/65K8	9,788	106	92	60,000
90T-27/65K9	7,889	86	92	60,000

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

PERFORMANCE SCALING, BY LAMP COLOR

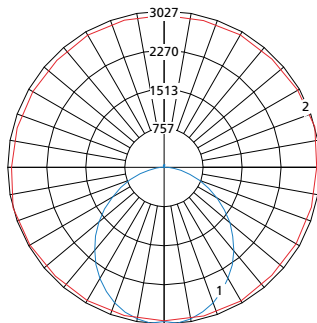
CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	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: MLHA8-48-F-MW-PP-90T-27/65K8-ATW-DV



Maximum Candela = 3027 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.)



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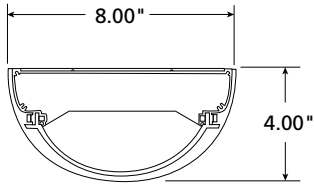
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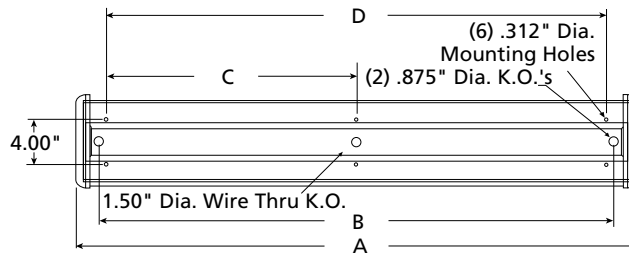
MLHA8 SERIES - TUNABLE WHITE LED

DIMENSIONAL DATA

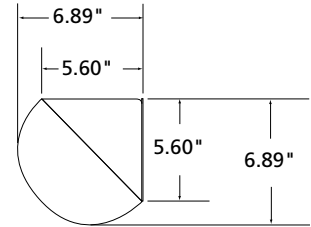
CROSS SECTION/DETAILS



MOUNTING HOLES



CORNER MOUNT BRACKET



Nominal Four Foot Fixture Legend

End Cap	A	B	C	D
R	50.52	46.31	22.50	45.00
F	49.31	46.31	22.50	45.00
RV	52.63	46.31	22.50	45.00



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