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
Job Name
Fixture Type
Catalog Number
Approved by
7 pproved 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

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

DRIVER: 120-277VAC, 50/60Hz electrical input (PF \geq 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

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















Model	Lengtl	n End Cap	Finish	Lens	Lamp	Power	Lamp Color	Driver Type	Volta	ge	Options	Accessories
MLHA12	48	<u> </u>		PP							-	
	Leng	th			Lamp	Power			Input	Voltage		
	48	4'			45T	4	15W Tunable White		DŸ	120-277 Volts	s, 50/60Hz	
					67T	6	7W Tunable White					
	End	Caps			90T	g	90W Tunable White		Optio	ons		
	F	Flat							LĖL	Integral 10W	Emergency Battery	Backup
	R	Rounded			Lamp	Color				(45T lamp ma	x, 0°C minimum op	erating temperature)
	RV	Reveal			27/65	K8 2	2700-6500K CCT Rar	ige (82 CRI min)	CDF	Captive Diffus	er Fasteners	
					27/65	K9 2	2700-6500K CCT Rar	ige (92 CRI min)	DL	Damp Locatio	n (Interior use NO	gasketing)
	Finis	h							FS	Single Fuse &	Holder (one per cir	cuit)
	LG	Light Gray			Drive	r Type			PH	Phillips Head I	Fasteners	
	MB	Matte Black			ATW	Analog	ι (0-10V) Dimming Τι	nable White Driver	PM §	Pendant Mour	nt (Max. 3/8NPT ste	ems by others; damp only)
	MW	Matte White			DTW	DALI T	unable White Driver		NLW	2700K White	LED Night Light (co	introlled independently of Tunable
	CC	Custom Color	(Consult Fa	tory)	DMX	DMX T	unable White Driver (Consult Factory)		White driver)		
									NLA	Amber LED Ni	ght Light ((control	led independently of Tunable
	Lens	Туре								White driver)		
	PP	Pearlescent Po	lycarbonate									
									Acce	ssories		

CMB§

Corner Mount Bracket (Must be ordered with DL Option)

§ PM and CMB not available in conjunction



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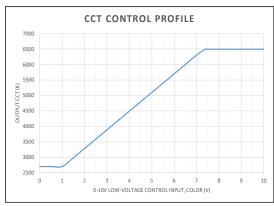
PERFORMANCE	Perfo				
Lamp Type	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)	
45T-27/65K8	5,129	111	46	80,000	
45T-27/65K9	4,133	90	46	80,000	
67T-27/65K8	7,673	113	68	80,000	
67T-27/65K9	6,356	93	68	80,000	
90T-27/65K8	9,966	108	92	60,000	
90T-27/65K9	8,032	87	92	60,000	

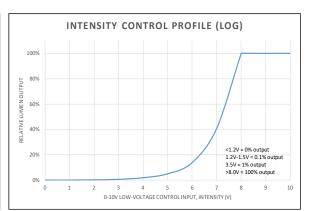
Information subject to change without notice. Visit www.kenall.com for ies files additional information.

PERFORMANCE SCALING, BY LAMP COLOR

		27/65	K8		27/65K9					
CCT (K)	LUMEN SCALE FACTOR	Ra	Ra R9 Rf Rg		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

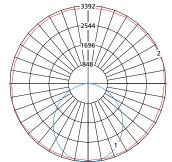
CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE





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



Maximum Candela = 3392 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.)



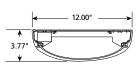
www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA A brand of This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Ace (TAA), Build America, Buy America Act (BABA), and others. 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. ©2024 Kenall Mfg. Co.

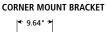
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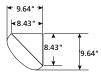
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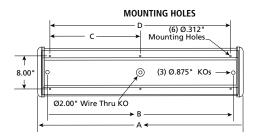
DIMENSIONAL DATA

CROSS SECTION/DETAILS









Nominal Four Foot Fixture Legend										
Α	В	C	D							
51.13	46.31	22.50	45.00							
49.31	46.31	22.50	45.00							
53.84	46.31	22.50	45.00							
	A 51.13 49.31	A B 51.13 46.31 49.31 46.31	A B C 51.13 46.31 22.50 49.31 46.31 22.50							