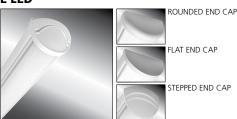
MILLENIUM STRETCH™ **MLHA5 SERIES - TUNABLE WHITE LED**

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



Y	
١	FLAT END CAP
١	
	STEPPED END CAP

REVEAL END CAP

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. Four styles available: Flat, Rounded, Reveal and Stepped. Conduit and "Wiremold™ ready" knockout visible only from interior of end cap (For Flat and Rounded

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 on page 2 for further details.

INSTALLATION: Standard four-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. Corner, horizontal wall, vertical wall and pendant mount installation - damp location only. ETL certified IP64 in compliance with IEC 60598 - ceiling mount. ADA compliant. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.















ORDERING INFORMATION (Fx: MI HAS-48-R-MW-PP-45T-27/65K8-ATW-DV-FS)

		INIATION (EX. II				•						
odel	Length	End Cap	Finish I	_ens	Lamp Power	Lamp Color	Driver Type	Voltag	je	Options	Accessories	
MLHA5	48	<u> </u>		PP	45T	_	_					
	Lengtl	n	L	ens Type				Input	Voltage			
	48	4'	F	PP Pearl	lescent Polycark	onate		DV	120-277 Volts,	50/60Hz		
	End Caps			Lamp Power Options								
	F	Flat		15T	45W Tunable	White		LEL	Integral 10W	Emergency Batter	ry Backup	
	R	Rounded							(0°C minimur	m operating temp	erature)	
	RV	Reveal	L	amp Colo	r			CDF	Captive Diffu	ser Fasteners		
	SP	Stepped	2	27/65K8	2700-6500K	CCT Range (82 C	RI min)	DL	Damp Location	n		
				7/65K9		CCT Range (92 C		FS	Single Fuse &	Holder		
	Finish		_				,	PH	Phillips Head	Fasteners		
	LG Light Gray		г	Oriver Type	e			PM§	Pendant Mou	nt (Max. 3/8NPT	stems	
MB Matte Black MW Matte White			ATW Analog (0-10V) Dimming Tunable White Driver DTW DALI Tunable White Driver				,	by others; dar				
								, ,	1 . ,,			
	CC	Custom Color (Co					actory)					
	,,		,, ,	DMX DMX Tunable White Driver (Consult Factory)				Accessories				
								CMB	Corner M	ount Bracket (Mus	st be ordered with DL Option)	

§ PM and CMB not available in conjunction

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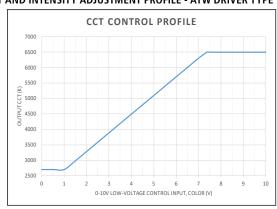
PERFORMANCE		Perfo			
Lamp Type		Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
	45T-27/65K8	4,808	105	46	80,000
	45T-27/65K9	3,875	84	46	80,000

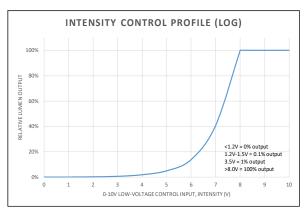
Information subject to change without notice. Visit www.kenall.com for ies files additional information.

PERFORMANCE SCALING, BY LAMP COLOR

		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

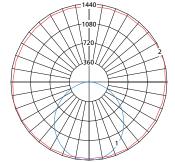
CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE





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: MLHA5-48-F-MW-PP-45T-27/65K8-ATW-DV



 $Maximum\ Candela = 1440\ Located\ At\ Horizontal\ Angle = 15, Vertical\ Angle = 5$

- ____ 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

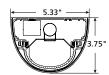
A brand of lip legrand
This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Ace (TAA), Build America, Buy America
Act (BABA), and others. It may be covered by patents found at www.kenall.com/patents.Content of specification sheets is subject to change; please consult www.kenall.com
for current product details. @2024 Kenall Mfg.Co.

MILLENIUM STRETCH™

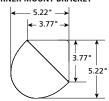
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DIMENSIONAL DATA

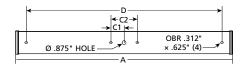
CROSS SECTION/DETAILS



CORNER MOUNT BRACKET



SURFACE MOUNTING HOLES



PM OPTION



Nominal Four Foot Fixture Legend										
End Cap	Α	В	C1	C2	D					
R	50.52	46.25	3.00	6.00	44.48					
F	49.31	46.25	3.00	6.00	44.48					
SP	52.13	46.25	3.00	6.00	44.48					
RV	51.67	46.25	3.00	6.00	44.48					