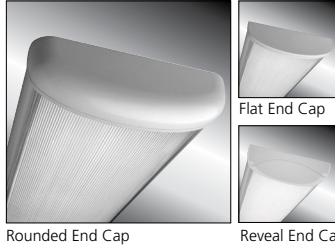


MILLENIUM STRETCH™

MLHA12 SERIES using Indigo-Clean Technology

PRODUCT FEATURES:

- » Provides environmental disinfection and effective, efficient lighting performance via visible LED light
- » Dual-Mode Indigo-Clean Technology is independently tested to kill 94% of SARS CoV-2 and Influenza-A***, in addition to MRSA
- » Single-Mode Indigo-Clean Technology is independently tested to kill harmful bacteria, such as Staph*, including MRSA**
- » 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.

OPTIC: High-impact extruded diffuser. 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.

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).

ELECTRICAL: (Single- and Dual-Mode ICT) Serviceable mid-power white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperatures with 3-step MacAdam variation allowance. Minimum 82 CRI standard. 120-277VAC and 347VAC electrical input with serviceable high power factor electronic, constant-current drivers (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non-dim-to-dark on Dual-Mode ICT). 330µA maximum source current. **Single-Mode ICT** provides a single, white disinfection operational mode. **Dual-Mode ICT** provides two operational modes based on room occupancy. White Disinfection Mode is a white LED array for ambient lighting plus a simultaneous low-power 405nm LED array for low-level, continuous and safe environmental disinfection. Indigo Disinfection Mode is a higher-level 405nm array for continuous safe environmental disinfection during periods of room vacancy. The operational mode is determined via internal low-voltage device based upon the input signal provided by an external control device/system, as the IC150 product. Luminaire dimming is overridden in this operational state. Refer to the [Kenall Dual-Mode ICT Control Application Guide](#) for further description.

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 five (5) year LED warranty. 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. Damp rated – ceiling mount. Corner, horizontal wall and pendant mount installation – Damp Location only. ADA compliant. EPA Est. No. 99283-WI-1.

* Per independent lab report #SGS-09517036476. Contact Kenall for a copy of this report.
 ** Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016.
 *** Refer to www.indigo-clean.com for details.



ORDERING INFORMATION (Ex: MLHA12-48-F-MB-FA-34I/82C-37K8-DCC-DV-FS-9500)

Model	Length	End Cap	Finish	Lens	Lamp Power	Lamp Color	Driver Type	Voltage	Options	Accessories
MLHA12	48			FA			DCC			
	Length 48 4'			Lens FA Frosted DR Acrylic				Voltage DV 120-277 Volts, 50/60Hz 347 347 Volts, 60Hz		
	End Caps F Flat R Rounded RV Reveal			Lamp Power 55C 55W Single-Mode ICT 82C 82W Single-Mode ICT 110C 110W Single-Mode ICT 23I/55C 55W Dual-Mode ICT 34I/82C 82W Dual-Mode ICT 46I/110C 110W Dual-Mode ICT				Options LEL† Integral 10W Emergency Battery Backup CDF Captive Diffuser Fasteners DL Damp Location (Interior use NO gasketing) FS Single Fuse & Holder (one per circuit) PH Phillips Head Fasteners PM§ Pendant Mount (Max. 3/8" NPT stems by others; damp only) NLW• 2700K White LED Night Light (controlled independently of Tunable White driver) NLA• Amber 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 32K8 3200K / 82 CRI min 37K8 3700K / 82 CRI min 43K8 4300K / 82 CRI min				Accessories CMB§ Corner Mount Bracket (Must be ordered with DL Option)		
				Driver Type DCC 0-10V Dimming Constant Current						

† 55C or 23I/55C lamp max, 0°C minimum operating temperature; n/a with 347V
 § PM and CMB not available in conjunction
 • n/a with 347V

ACCESSORIES ORDERED SEPARATELY
 IC150 External Room Control System for Dual-Mode ICT Products
 (click [here](#) for Specifications)



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA

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.

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MLHA12-ICT-103122

MILLENIUM STRETCH™

MLHA12 SERIES – with Indigo-Clean Technology

PERFORMANCE

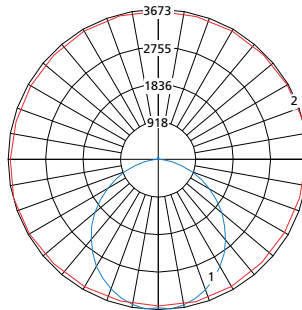
Technology	Length	Lamp Code	Lumen Output by Color (lm) ¹			Efficacy (lm/W)	Power Consumption ²			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	4'	55C	5,652	5,799	5,858	93 - 96	61	51	n/a	80,000
		82C	8,535	8,757	8,846	92 - 95	93	77		
		110C	10,518	10,791	10,901	86 - 89	122	101		
Dual-Mode ICT	4'	23I/55C	5,652	5,799	5,858	93 - 96	61	51	29	80,000
		34I/82C	8,535	8,757	8,846	92 - 95	93	77	44	
		46I/110C	10,518	10,791	10,901	86 - 89	122	101	58	

¹Provided values are applicable to the FA lens Type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

²Lighting Power and Energy Calculations:

- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection has been removed for this calculation.
- Use **Unoccupied** and **Occupied Power** for Energy calculations to determine the power consumed over time based on the use of the space.

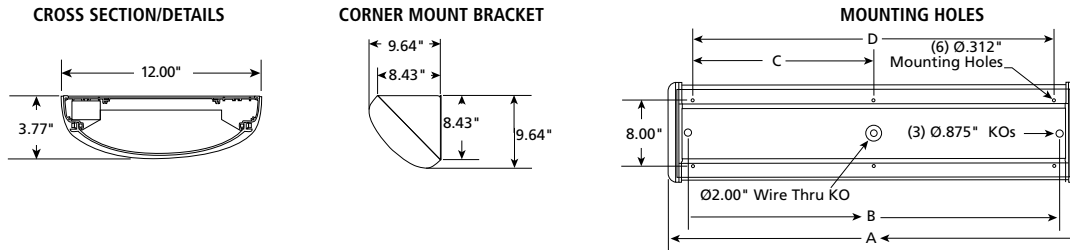
Model: MLHA12-48-X-MW-FA-110C-37K8-DCC-DV and MLHA12-48-X-MW-FA-46I/110C-37K8-DCC-DV



Maximum Candela = 3673 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



End Cap	A	B	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



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