PROJECT	Job Name	Ca	atalog Number	
NFORMATION	Fixture Type	A	approved by	

MILLENIUM STRETCH™

MLHA3 SERIES using Indigo-Clean Technology

PRODUCT FEATURES:

- » Narrow 3" linear surface mount luminaire
- » 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





Rounded End Cap

SPECIFICATIONS

HOUSING: Extruded marine grade aluminum body with die-cast aluminum end caps. Two end cap styles available - Flat and Round. Conduit and Wiremold™ ready knockout visible only from interior of end cap. Closed cell EPDM and silicone gasketing along lens channel and end caps.

OPTIC: Impact-modified diffused acrylic. Lens securely positioned in body channels and endcaps, locked into place with concealed, tamper-resistant Torx ® T-20 with center pin fasteners.

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 80 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). 165µA maximum source current. Single-Mode ICT provides two operational modes. Dual-Mode ICT provides two operational modes. 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, such 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 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 information, 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 in compliance with IEC 60598 - ceiling mount. Corner, horizontal wall and pendant mount installation – damp location only. ADA compliant. EPA Est. No. 99283-WI-1. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.

















1odel	Length	End Cap	Finish	Lens	Lamp Pov	wer Lai	mp Color	Driver Type	Voltage	Options	Accessories
MLHA3	48	<u> </u>		FA				DIM1			
	Length 48	n 4' Nominal			Lamp Po 55C 23I/55C		le-Mode ICT -Mode ICT			Options LEL† CDF	Integral 10W Emergency Battery Backup Captive Diffuser Fasteners
	End Ca	ap Style								DL	Damp Location
	F	Flat			Lamp Co	olor				FS	Single Fuse & Holder
	R	Rounded				00K / 80 CRI 00K / 80 CRI				PH PM‡	Phillips Head Fasteners Pendant Mount (max 3/8" NPT stems,
	Finish				43K8 43	00K / 80 CRI	l min.				by others; Damp Location rated)
	MW	Matte White									
	LG	Light Gray			Driver T	ype				Accesso	ries
	MB	Matte Black			DIM1 0-	10V Dimmin	g to 1% with	Dim-to-Dark Ca	apabilities	CMB‡	Corner Mount Bracket
	CC	Custom Color (Co	onsult Factory)								(Must be ordered with DL Option)
					Voltage						
	Lens T	ype			DV 12	20-277 VAC,	50/60Hz				
	FA	Frosted DR Acryli	C .		347 34	17 VAC, 60Hz	!			dual-mod ‡ PM and	2°F min ambient temp; n/a with de ICT or 347V input I CMB not available in conjunction h 347V input

ACCESSORIES ORDERED SEPARATELY

IC150 External Room Control System for Dual-Mode ICT Products (click here for Specifications)



^{*}per independent lab report #SGS-09516076094. 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.

MILLENIUM STRETCH™

MLHA3 SERIES - with Indigo-Clean Technology

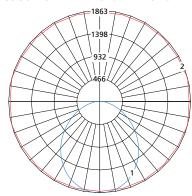
PERFORMANCE

Technology	Length	Lamp Code	Lumen Output by Color (lm) ¹			ref:	Power Consumption ²			Estd L70
			32K8	37K8	43K8	Efficacy (lm/W)	Occupied (W)	LPD (W)	Unoccupied (W)	LED Life (Hrs)
Single-Mode ICT	4'	55C	5,670	5,817	5,877	97 - 100	59	49	n/a	80,000
Dual-Mode ICT	4'	23I/55C	5,670	5,817	5,877	97 -100	59	49	29	80,000

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: MLHA3-48-X-MW-FA-55C-37K8-DIM1-DV and MLHA3-48-X-MW-FA-23I/55C-37K8-DIM1-DV



 $Maximum\ Candela = 1863\ Located\ At\ Horizontal\ Angle = 15,\ Vertical\ Angle = 2.5$

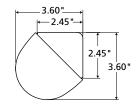
1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

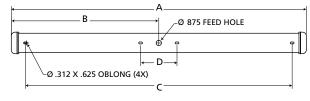
CROSS SECTION/DETAILS

3.57"

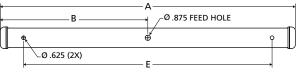
CORNER MOUNT BRACKET (OPTIONAL)



SURFACE MOUNTING HOLES



PM OPTION



Nominal Four Foot Fixture Legend										
End Cap	Α	В	C	D	E					
R	47.528	23.764	44.00	6.00	41.00					
F	48.680	24.340	44.00	6.00	41.00					



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

A brand of 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
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