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			<b>DIM1</b> 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			<b>DV</b> 12	20-277 VAC,	50/60Hz				
	FA	Frosted DR Acryli	C .		<b>347</b> 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)



<sup>\*</sup>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

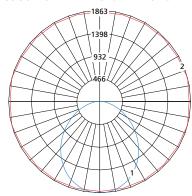
#### **PERFORMANCE**

Technology	Length	Lamp Code	Lumen Output by Color (lm) <sup>1</sup>			ref:	Power Consumption <sup>2</sup>			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

<sup>1</sup>Provided values are applicable to the FA lens Type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information. <sup>2</sup>Lighting 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



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

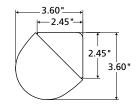
1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

#### **DIMENSIONAL DATA**

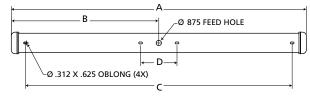
#### CROSS SECTION/DETAILS

# 3.57"

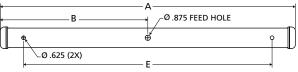
## CORNER MOUNT BRACKET (OPTIONAL)



#### 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					



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A brand of legrand
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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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