

MEDMASTER ENVELA® Patient Room Luminaires

ME 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**
- » Cleanable to NSF2 and sealed to IP64 construction standards



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: 20-gauge CRS. One-piece seam welded construction. Housing flange in 18-gauge CRS, with mitered and welded corners, spot-welded to housing. Mitered and welded corners. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

REFLECTOR/LENS ASSEMBLY: Fully gasketed, sealed luminous shield diffuser constructed of impact-resistant frost DR acrylic. Reflector constructed in one-piece, formed 20-gauge CRS. Low-gloss white TGIC polyester powder coat with 5-stage pre-treatment. Salt spray test 1,000 hours. Tool-less lamp access.

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, 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: GRID MOUNT: Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. **FLANGE MOUNT:** Includes Drywall Frame Kit.

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 warranty on LED lamps.

LISTINGS: Luminaire certified to UL standards by Intertek Testing Laboratory for Wet Locations. ETL certified IP64 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. 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: ME22-G-23I/55C-37K8-DCC-DV-FA)

Model	Mounting Options	Lamp Power	Lamp Color	Driver Type DCC	Voltage	Lens Type FA	Options
Series		Lamp Power			Voltage		
Model		1x4			DV 120-277 Volts		
ME14 1'x4'		55C 55W Single-Mode ICT			120 120 Volts		
ME22 2'x2'		23I/55C 55W Dual-Mode ICT			277 277 Volts		
ME24 2'x4'					347 347 Volts		
		2x2					
Mounting Options		55C 55W Single-Mode ICT			Lens Type		
G Grid (1")		23I/55C 55W Dual-Mode ICT			FA Frosted DR Acrylic		
ST Slot-T Grid (2x2 & 2x4 only)							
F Flange		2'x4'			Options		
		55C 55W Single-Mode ICT			AMF Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame		
		82C 82W Single-Mode ICT			FS Fuse & Holder		
		110C 110W Single-Mode ICT			LVC* Low Voltage Controller (Click here for specifications; n/a with Dual-Mode ICT)		
		23I/55C 55W Dual-Mode ICT			LVCD* Low Voltage Controller with Dimming (Click here for specifications; n/a with Dual-Mode ICT)		
		34I/82C 82W Dual-Mode ICT			RF* Radio Frequency Filter (Voltage specific selection required)		
		46I/110C 110W Dual-Mode ICT					
		Lamp Color					
		32K8 3200K / 82 CRI min.					* n/a with 347V
		37K8 3700K / 82 CRI min.					
		43K8 4300K / 82 CRI min.					
		Driver Type					
		DCC 0-10V Dimming Constant Current					

ACCESSORIES ORDERED SEPARATELY

- MPWS** Low Voltage Wall Switch (Click [here](#) for Specifications)
- IC150** External Room Control System for Dual-Mode ICT Products (click [here](#) for Specifications)



[www.kenall.com](#) | P: 800-4-Kenall | F: 262-891-9701 | 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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Patient Room Luminaires

ME SERIES using Indigo-Clean Technology

PERFORMANCE

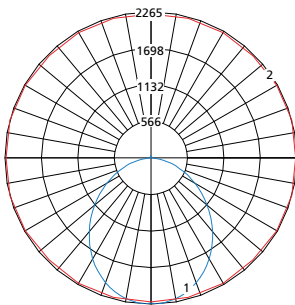
Technology	Length	Lamp Code	Lumen Output by Color (lm) ¹			Efficacy (lm/W)	Power Consumption ²			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	1 x 4	55C	5,538	5,682	5,740	91 - 94	61	51	0	80,000
	2 x 2	55C	4,988	5,117	5,169	82 - 85	61	51		
	2 x 4	55C	6,239	6,401	6,466	102 - 106	61	51		
		82C	9,421	9,666	9,765	101 - 105	93	77		
Dual-Mode ICT	1 x 4	23I/55C	5,538	5,682	5,740	91 - 94	61	51	29	80,000
	2 x 2	23I/55C	4,988	5,117	5,169	82 - 85	61	51	29	
	2 x 4	23I/55C	6,239	6,401	6,466	102 - 106	61	51	29	
		34I/82C	9,421	9,666	9,765	101 - 105	93	77	44	
		46I/110C	11,611	11,912	12,034	95 - 99	122	101	58	

¹ Lumen output is with the FA lens type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

² Lighting Power and Energy Calculations:

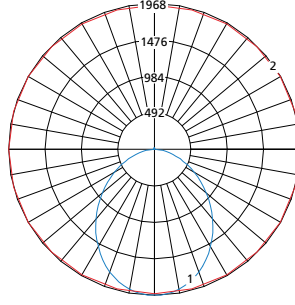
- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-2021. Power used toward germicidal disinfection 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: ME14-XX-55C-37K8-DCC-DV-FA and ME14-XX-23I/55C-37K8-DCC-DV-FA



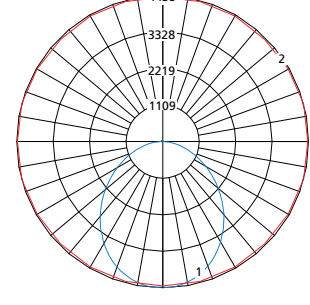
Max Candela = 2265 Located At Horizontal Angle = 15, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: ME22-XX-55C-37K8-DCC-DV-FA and ME22-XX-23I/55C-37K8-DCC-DV-FA



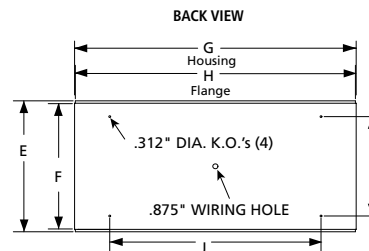
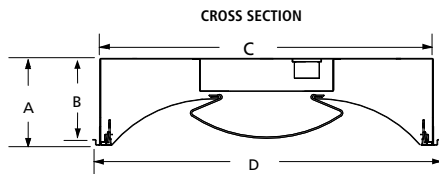
Max Candela = 1968 Located At Horizontal Angle = 15, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: ME24-XX-110C-37K8-DCC-DV-FA and ME24-XX-46I/110C-37K8-DCC-DV-FA



Max Candela = 4438 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



DIMENSIONAL DATA (IN INCHES)

	A	B*	C	D	E	F	G	H	I	J
1x4	6.30	5.93*	10.70	11.70	10.70	11.70	47.98	47.72	8.00	36.00
Recommended Ceiling Cut-Out 12.50x48.50 (Flange fixtures)										
2x2	6.30	5.93*	22.70	23.72	23.72	22.70	23.98	23.72	18.00	18.00
Recommended Ceiling Cut-Out 24.50x24.50 (Flange fixtures)										
2x4	6.30	5.93*	22.70	23.72	23.72	22.70	47.98	47.72	18.00	36.00
Recommended Ceiling Cut-Out 24.50x48.50 (Flange fixtures)										

*ST Mounting Option Only



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