

# MEDMASTER™

## Patient Room Luminaires

### MPCADE SERIES using Indigo-Clean Technology

#### PRODUCT FEATURES:

- » Ambient and exam lighting with optional reading compartment
- » Ambient function 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\*\*
- » Ingress Barrier Door provides consistent surface for cleanability



#### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

#### SPECIFICATIONS

**HOUSING:** FLANGE AND GRID: 20-gauge CRS seam welded one-piece construction. SURFACE: 18-gauge CRS one-piece seam welded construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test 1,000 hours. Reflectance 92%. (See options for Antimicrobial Finish). Housing Flanges –18-gauge CRS.

**DOORFRAME:** Heavy duty extruded aluminum with clear satin anodized finish. Doorframe supported to housing with aircraft cables (IB-AC) to provide NSF2 listing, or an optional continuous hinged doorframe (IB-HD). Select in ordering options below. Phillips-head stainless steel fasteners secure door to housing – 8 with IB-AC and 2 with IB-HD. Extruded closed cell gasket seals doorframe to housing.

**LENS:** .125" clear high impact acrylic. Sealed to extruded aluminum frame with a vinyl gasket.

**LAMP SHIELDING:** Exam compartment shielded by frosted linear prismatic high impact acrylic. Ambient compartment shielded by 100% internal fluted high impact acrylic.

**ELECTRICAL:** 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. Exam Function includes serviceable standard mid-power white LED array (non-disinfection). Available 3500K, 4000K and 5000K color temperature, minimum 82 CRI standard. Ambient Function with **Single- and Dual-Mode ICT** includes 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. **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 1.5" grid. (Housing includes hanging brackets to secure housing with wire to super structure). FLANGE MOUNT: Yoke mounting hardware & brackets included. Install Frame and Plaster Frames both positively locates yoke brackets within ceiling opening assures alignment of fixture. Install frame has no need for drywall backing. Backing is supplied on the frame brackets.

**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](http://www.kenall.com).

**WARRANTY:** Limited five (5) year warranty on LED lamps.

**LISTINGS:** UL and CUL Listed for Wet Location and UL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone (IB-AC only). CCEA approved for grid or flange mount. 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](http://www.indigo-clean.com) for details.



GRID/FLANGE

#### ORDERING INFORMATION (Ex: MPCADE24-F-231/55C/90L-37K8-40K8-DCC-DV-IB-AC)

Model	Mounting Options	Lamp Power	Ambient Lamp Color	Exam Lamp Color	Driver Type	Voltage	Doorframe	Options	Accessories
<b>MPCADE24</b>					<b>DCC</b>		<b>IB-</b>		
	<b>Mounting Options</b> <b>S</b> Surface <b>G</b> Grid (1" and 1.5") <b>F</b> Flange  <b>Lamp Power</b> <b>55C/90L</b> 55W Single-Mode ICT Ambient / 90W White Exam <b>231/55C/90L</b> 55W Dual-Mode ICT Ambient / 90W White Exam  <b>Ambient Lamp Color</b> <b>32K8</b> 3200K / 82 CRI min. <b>37K8</b> 3700K / 82 CRI min. <b>43K8</b> 4300K / 82 CRI min.  <b>Exam Lamp Color</b> <b>35K8</b> 3500K / 82 CRI min. <b>40K8</b> 4000K / 82 CRI min. <b>50K8</b> 5000K / 82 CRI min.	<b>Driver Type</b> <b>DCC</b> Dimming Constant Current  <b>Voltage</b> <b>DV</b> 120-277 Volts <b>347</b> 347 Volts  <b>Doorframe</b> <b>AC</b> Ingress Barrier w/Aircraft Cables <b>HD</b> Ingress Barrier w/Continuous Piano Hinge (not NSF2 listed)	<b>Options</b> <b>LEL</b> LED Emergency Battery Pack <b>AMF</b> Antimicrobial Finish on exposed surfaces <b>NLW</b> 2700K White LED Night Light <b>NLA</b> Amber LED Night Light <b>LVC</b> Low Voltage Controller (n/a with Dual-Mode ICT; Click <a href="#">here</a> for specifications) <b>LVCD</b> Low Voltage Controller with Dimming (n/a with Dual-Mode ICT; Click <a href="#">here</a> for specifications) <b>FS</b> Single Fuse & Holder (1 per compartment) <b>LRL</b> Dual 3500K, 90CRI Reading Lights <b>RF</b> Radio Frequency Filter <b>RM</b> Continuous Row Mount (Flange only) <b>TC</b> T-Bar Clips (Grid only) <b>TH</b> 1/2" Trade Size Threaded Hub <b>HJ</b> Sealed Wireway						

▲ n/a with 347V

#### 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)



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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](http://www.kenall.com/patents). Content of specification sheets is subject to change; please consult [www.kenall.com](http://www.kenall.com) for current product details. ©2022 Kenall Mfg. Co.

MPCADE24-ICT-011022

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### MPCADE SERIES using Indigo-Clean Technology

#### PERFORMANCE

Technology	Function	Lamp Code	Lumen Output by Color (lm) <sup>1</sup>			Efficacy (lm/W)	Power Consumption <sup>2</sup>			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	Ambient	55C	4,674	4,795	4,844	78 - 81	60	50	n/a	80,000
Dual-Mode ICT		23I/55C	4,674	4,795	4,844	78 - 81	60	50	29	80,000

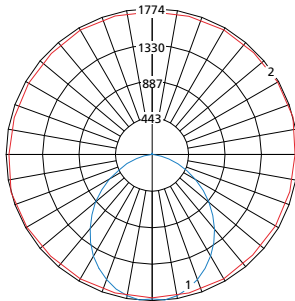
Technology	Function	Lamp Code	Lumen Output by Color (lm) <sup>1</sup>			Efficacy (lm/W)	Power Consumption <sup>2</sup>			Estd L70 LED Life (Hrs)
			35K8	40K8	50K8		Occupied (W)	LPD (W)	Unoccupied (W)	
All	Exam	90L	9,264	9,453	9,831	154 - 164	60	50	n/a	80,000

<sup>1</sup>Lumen output includes IB door and acrylic lens. Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

<sup>2</sup>Lighting Power and Energy Calculations:

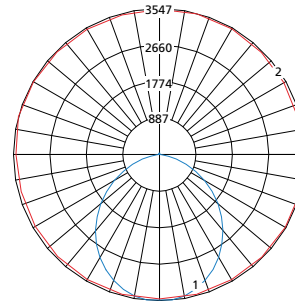
- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection 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: MPCADE24-X-55C/90L-37K8-40K8-DCC-DV and MPCADE24-X-23I/55C/90L-37K8-40K8-DCC-DV (AMBIENT)



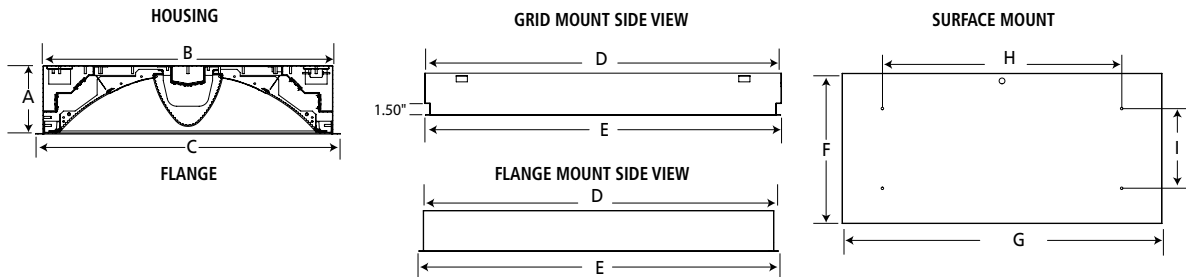
Max Candela = 1774 Located At Horizontal Angle = 195, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (195 - 15) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Model: MPCADE24-X-55C/90L-37K8-40K8-DCC-DV and MPCADE24-X-23I/55C/90L-37K8-40K8-DCC-DV (EXAM)



Max Candela = 3547 Located At Horizontal Angle = 165, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (165 - 345) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

#### DIMENSIONAL DATA



DIMENSIONAL DATA (IN INCHES)									
	A	B	C	D	E	F	G	H	I
Flange*	5.93	22.60	23.75	48.13	49.28	---	---	---	---
Grid	5.93	22.60	23.75	48.00	47.75	---	---	---	---
Surface	5.93	---	---	---	---	22.60	48.13	30.00	12.00

\*Flange Ceiling Cutout: 22.88 × 48.38 (Add .25" to each dimension when Install Frame (IF) or Plaster Frame (PF) is specified.)

