

# MEDMASTER™ AMBIENT

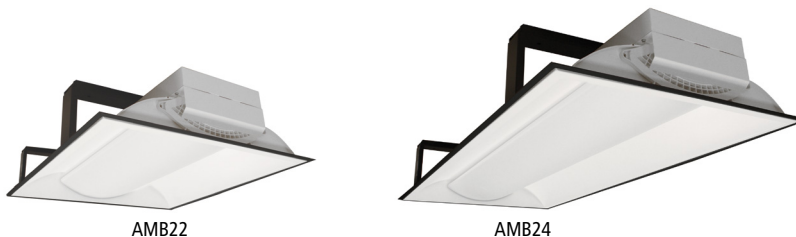
## AMB SERIES using Indigo-Clean Technology

### PROJECT INFORMATION

Job Name \_\_\_\_\_  
 Fixture Type \_\_\_\_\_  
 Catalog Number \_\_\_\_\_  
 Approved by \_\_\_\_\_

#### 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\*\*
- » Recessed mount – Flange or Grid; 2'x2', 2'x4'
- » » Tool-less access for re-lamping and maintenance



#### SPECIFICATIONS

**HOUSING:** 20-gauge CRS. One-piece construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**FLANGE:** 18-gauge CRS, standard 4-piece construction, spot-welded to hanger bars and secured to housing. Mitered and welded corners. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**REFLECTOR/LENS ASSEMBLY:** 20-gauge CRS. One-piece seam-welded construction. Tool-free lamp access. White High (92%) Reflectance Low Gloss TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

**LAMP SHIELDING:** Fully gasketed, sealed luminous shield of impact resistant DR acrylic.

**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.

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

**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).

**LISTINGS:** Luminaire is certified to UL Standards by Intertek Testing Laboratory for Damp Locations. NSF2 Splash/Non-Food Zone. EPA Est. No. 99283-WI-1.

\* Per independent lab report #5GS-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.



Model	Mounting	Lamp Power	Lamp Color	Driver Type	Voltage	Lens Type	Options
				<b>DCC</b>			
						<b>FA</b>	
<b>Model</b>		<b>Lamp Power</b>			<b>Voltage</b>		
AMB22 2'x2'		2x2			DV 120-277 Volts		
AMB24 2'x4'		55C	55W Single-Mode ICT		347 347 Volts		
		23I/55C	55W Dual-Mode ICT				
<b>Mounting Options</b>					<b>Lens Type</b>		
G Grid (1")		2x4			FA Frost DR Acrylic		
ST Grid (Slot T)		55C	55W Single-Mode ICT				
F Flange		82C	82W Single-Mode ICT		<b>Options</b>		
		110C	110W Single-Mode ICT		AMF Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame		
		23I/55C	55W Dual-Mode ICT		FS Fuse & Holder		
		34I/82C	82W Dual-Mode ICT				
		46I/110C	110W Dual-Mode ICT				
		<b>Lamp Color</b>					
		32K8	3200K / 82 CRI min.				
		37K8	3700K / 82 CRI min.				
		43K8	4300K / 82 CRI min.				
		<b>Driver Type</b>					
		DCC	0-10V Dimming Constant Current				

#### ACCESSORIES ORDERED SEPARATELY

**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.

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### PERFORMANCE

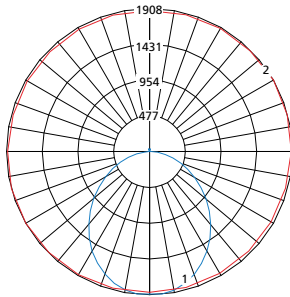
Technology	Length	Lamp Code	Lumen Output by Color (lm) <sup>1</sup>			Efficacy (lm/W)	Power Consumption <sup>2</sup>			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	2 x 2	55C	4,988	5,117	5,169	82 - 85	61	51	n/a	80,000
	2 x 4	55C	6,239	6,401	6,466	102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

<sup>1</sup> Lumen output is with the FA lens type. 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:

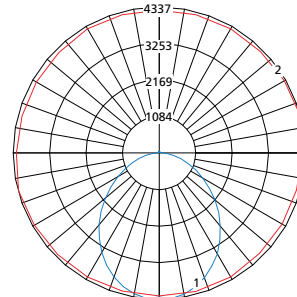
- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection 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: AMB22-XX-55C-37K8-DCC-DV-FA and AMB22-XX-23/55C-37K8-DCC-DV-FA



Max Candela = 1908 Located At Horizontal Angle = 30, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

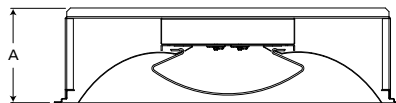
Model: AMB24-XX-110C-37K8-DCC-DV-FA and AMB24-XX-46/110C-37K8-DCC-DV-FA



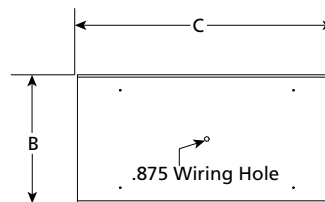
Max Candela = 4337 Located At Horizontal Angle = 15, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA

SIDE VIEW



TOP VIEW



#### DIMENSIONAL DATA

	A	B	C
<b>AMB22</b>	6.45"	23.75"	23.75"
Recommended ceiling cutout for 2x2 Flange Frame Kit is <b>24.50" x 24.50"</b>			
<b>AMB24</b>	6.45"	23.75"	47.75"
Recommended ceiling cutout for 2x4 Flange Frame Kit is <b>24.50" x 48.50"</b>			

