

# MEDMASTER™

## Behavioral Healthcare Luminaires

### MMAC SERIES using Indigo-Clean Technology

#### PRODUCT FEATURES:

- » Provides on-demand environmental disinfection via LED light
- » Single, white disinfection mode
- » Independent laboratory tested to kill harmful bacteria, including Staph\*, such as MRSA\*\*
- » Surface, recessed grid or recessed flange mount – 1'x4', 2'x2', 2'x4'
- » Center diffuser provides direct/indirect ambient lighting
- » Doorframe with Polycarbonate lens secured with Torx® fasteners for security



#### PROJECT INFORMATION

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

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

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

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

#### SPECIFICATIONS

**HOUSING:** Die-formed prime grade material as specified – see Ordering Information. TIG and spot welded construction.

**DOOR:** One-piece die-formed prime grade material as specified – see Ordering Information. Doorframe supported to housing with two aircraft cables. Corners continuously seam welded and smooth with no post grinding (TIG). Closed cell silicone gasket seals door to housing.

**FINISH:** TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Optional antimicrobial finish.

**OPTICS:** Extruded high-efficiency frosted DR acrylic inner diffuser. Clear impact-resistant polycarbonate outer lens as specified—see Ordering Information.

**FASTENERS:** Torx® head with center pin hardened security screws. Fully recessed.

**ELECTRICAL:** Serviceable mid-power white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperature with 3-step MacAdam variation allowance. Minimum 82 CRI standard. 120-277VAC and 347VAC, 50/60Hz 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. 330µA maximum source current. Single, white disinfection mode. tional LVCD control provides low-voltage patient interface, controlling the primary light engine independently with dimming control, and if ordered DLN and DLNA option independently without dimming.

**INSTALLATION:** SURFACE MOUNT: Four .312" diameter holes. 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.

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

**LISTINGS:** Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location and non-IC recessed installations. ETL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Approved by the New York State - Office of Mental Health.

\* Per independent lab report #5GS-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.



#### ORDERING INFORMATION (Ex: MMAC22-F-1/2-9-55C35K-DCC-DV-FS)

Model	Mounting	Door/Housing Material	Lens	Diffuser Type	Lamp Type	Driver Type	Voltage	Options	Accessory
		<b>I</b>		<b>FA</b>		<b>DCC</b>			
<b>Model</b>				<b>Diffuser Type</b>			<b>Voltage</b>		
<b>MMAC14</b> 1'x4'				<b>FA</b> Frosted Acrylic			<b>DV</b> 120-277VAC, 50/60Hz		
<b>MMAC22</b> 2'x2'							<b>120</b> 120VAC, 50/60Hz		
<b>MMAC24</b> 2'x4'							<b>277</b> 277VAC, 50/60Hz		
							<b>347</b> 347VAC, 50/60Hz		
<b>Mounting Options</b>				<b>Lamp Type</b>				<b>Options</b>	
<b>F</b> Flange				<b>1x4</b>				<b>LEL*</b> LED Emergency Battery Pack (n/a with 1'x4' fixture; n/a in combination with LVC or LVCD on 2x2 fixture)	
<b>S</b> Surface				<b>55C32K</b> 55 Watt 3200K White & Indigo LED (82 CRI)				<b>AMF</b> Antimicrobial Finish on exposed surfaces	
<b>G</b> Grid (1" and 1.5")				<b>55C37K</b> 55 Watt 3700K White & Indigo LED (82 CRI)				<b>DLN</b> LED Night Light w/Light Level Control (100% - 20%) (Voltage specific selection required; n/a 1x4 size)	
				<b>55C43K</b> 55 Watt 4300K White & Indigo LED (82 CRI)				<b>DLNA</b> Amber LED Night Light w/Light Level Control (100% - 20%) (voltage specific selection required; n/a 1x4 size)	
<b>Door/Housing Material</b>				<b>2x2</b>				<b>FS</b> Fuse & Holder	
<b>0</b> 14-Ga CRS (Painted)				<b>55C32K</b> 55 Watt 3200K White & Indigo LED (82 CRI)				<b>LVC*</b> Low Voltage Controller (Click <a href="#">here</a> for specifications)	
<b>1</b> 16-Ga CRS (Painted)				<b>55C37K</b> 55 Watt 3700K White & Indigo LED (82 CRI)				<b>LVCD*</b> Low Voltage Controller with Dimming (Click <a href="#">here</a> for specifications)	
<b>2</b> 18-Ga CRS (Painted) (n/a as Door Material)				<b>55C43K</b> 55 Watt 4300K White & Indigo LED (82 CRI)				<b>TC</b> T-Bar Clips (Grid Mount only)	
<b>A</b> 18-Ga SS (Brushed) (n/a as Door Material)				<b>2'x4'</b>					
<b>B</b> 18-Ga SS (Painted) (n/a as Door Material)				<b>55C32K</b> 55 Watt 3200K White & Indigo LED (82 CRI)					
<b>3</b> 14-Ga SS (Painted)				<b>55C37K</b> 55 Watt 3700K White & Indigo LED (82 CRI)					
<b>4</b> 16-Ga SS (Painted)				<b>55C43K</b> 55 Watt 4300K White & Indigo LED (82 CRI)					
<b>6</b> 14-Ga SS (Brushed)				<b>82C32K</b> 82 Watt 3200K White & Indigo LED (82 CRI)					
<b>7</b> 16-Ga SS (Brushed)				<b>82C37K</b> 82 Watt 3700K White & Indigo LED (82 CRI)					
				<b>82C43K</b> 82 Watt 4300K White & Indigo LED (82 CRI)					
<b>Lens</b>				<b>110C32K</b> 110 Watt 3200K White & Indigo LED (82 CRI)					
<b>7</b> .187" Clear Polycarbonate				<b>110C37K</b> 110 Watt 3700K White & Indigo LED (82 CRI)					
<b>9</b> .250" Clear Polycarbonate				<b>110C43K</b> 110 Watt 4300K White & Indigo LED (82 CRI)					
<b>B</b> .375" Clear Polycarbonate									
				<b>Driver Type</b>					
				<b>DCC</b> 0-10V Dimming Constant Current Driver					

\* n/a with 347V

#### ACCESSORIES ORDERED SEPERATELY

**MPWS** Low Voltage Wall Switch (Click [here](#) for Specifications)



www.kenall.com

P: 800-4-Kenall

F: 262-891-9701

10200 55th Street Kenosha, Wisconsin 53144

A brand of **legrand**

When you see this image, you will know the Kenall product shown or described is designed and manufactured in the USA with components purchased from US suppliers, and meets the Buy American requirements under the ARRA. Kenall has not determined the origin of its domestically purchased components or the subcomponents thereof. 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. © 2019 Kenall Mfg. Co. All rights reserved.

MMAC\_22\_24-ICT-050719

# MEDMASTER™

## Behavioral Healthcare Luminaires

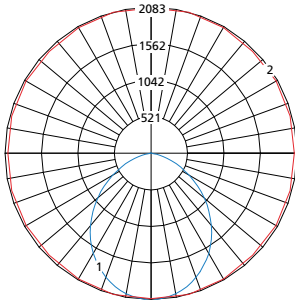
### MMAC SERIES using Indigo-Clean Technology

#### PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens		Input Power (W)	Estd. L70 LED Life (Hrs)
		@ 25°C (lm)	Efficacy (lm/W)		
MMAC14	55C32K	4,077	66	62	80,000
	55C37K	4,183	67	62	80,000
	55C43K	4,226	68	62	80,000
MMAC22	55C32K	4,131	64	65	80,000
	55C37K	4,238	65	65	80,000
	55C43K	4,281	66	65	80,000
MMAC24	55C32K	5,072	82	62	80,000
	55C37K	5,203	84	62	80,000
	55C43K	5,256	85	62	80,000
	82C32K	7,659	82	93	80,000
	82C37K	7,858	84	93	80,000
	82C43K	7,938	85	93	80,000
	110C32K	9,439	74	128	80,000
	110C37K	9,683	76	128	80,000
	110C43K	9,782	76	128	80,000

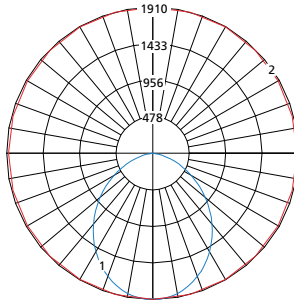
All products tested with the SYM/B lens configuration. Apply lumen output factor of 1.05 for Type 7 and Type 9 lens. Information subject to change without notice. Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric data, please go to [www.kenall.com](http://www.kenall.com)

Model: MMAC-14-x-1-2-B-55C37K-DCC-DV



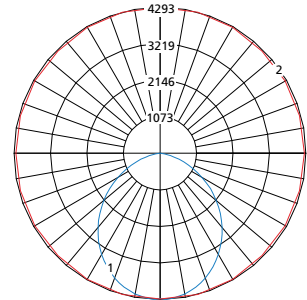
Max Candela = 1988 Located At Horizontal Angle = 75, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MMAC-22-x-1-2-B-55C37K-DCC-DV



Max Candela = 1717 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MMAC-24-x-1-2-B-110C37K-DCC-DV



Max Candela = 3811 Located At Horizontal Angle = 75, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)



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

P: 800-4-Kenall

F: 262-891-9701

10200 55th Street Kenosha, Wisconsin 53144

A brand of **legrand**

When you see this image, you will know the Kenall product shown or described is designed and manufactured in the USA with components purchased from US suppliers, and meets the Buy American requirements under the ARRA. Kenall has not determined the origin of its domestically purchased components or the subcomponents thereof. 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. © 2019 Kenall Mfg. Co. All rights reserved.

# MEDMASTER™

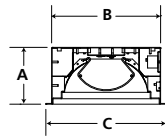
Behavioral Healthcare Luminaires

## MMAC SERIES using Indigo-Clean Technology

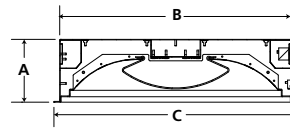
### DIMENSIONAL DATA

#### GRID DIMENSIONAL DATA (IN INCHES)

	A	B	C	D	E
1x4	5.56	10.60	11.75	46.60	47.75
2x2	6.10	22.60	23.75	22.60	23.75
2x4	6.10	22.60	23.75	46.60	47.75



MAC14

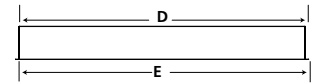


MAC22 & MAC24

#### GRID MOUNT

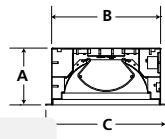
CROSS SECTION

SIDE VIEW

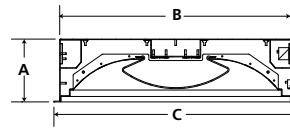


#### FLANGE DIMENSIONAL DATA (IN INCHES)

	A	B	C	D	E	F	G
1x4	5.56	10.60	11.75	46.60	47.75	30.00	5.25
Recommended Ceiling Cutout: 10.88" x 46.88"							
2x2	6.10	22.60	23.75	22.60	23.75	12.00	12.00
Recommended Ceiling Cutout: 22.88" x 22.88"							
2x4	6.10	22.60	23.75	46.60	47.75	30.00	12.00
Recommended Ceiling Cutout: 22.88" x 46.88"							



MAC14

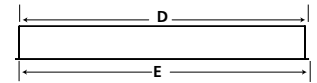


MAC22 & MAC24

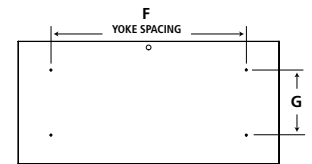
#### FLANGE MOUNT

CROSS SECTION

SIDE VIEW

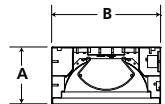


TOP VIEW

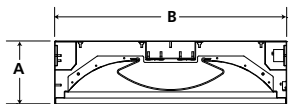


#### SURFACE DIMENSIONAL DATA (IN INCHES)

	A	B	C	D	E
1x4	5.56	10.60	30.00	5.25	46.60
2x2	6.13	22.60	12.00	12.00	22.60
2x4	6.13	22.60	30.00	12.00	46.60



MAC14

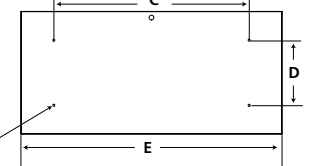


MAC22 & MAC24

#### SURFACE MOUNT

CROSS SECTION

TOP VIEW



Mounting Holes



www.kenall.com

P: 800-4-Kenall

F: 262-891-9701

10200 55th Street Kenosha, Wisconsin 53144

A brand of **legrand**

When you see this image, you will know the Kenall product shown or described is designed and manufactured in the USA with components purchased from US suppliers, and meets the Buy American requirements under the ARRA. Kenall has not determined the origin of its domestically purchased components or the subcomponents thereof. 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. © 2019 Kenall Mfg. Co. All rights reserved.

MMAC\_22\_24-ICT-050719