

MEDMASTER™

Patented Continuous Environmental Disinfection System

M4SEDIC SERIES – Switchable White and Indigo Disinfection LED

PROJECT INFORMATION	
Job Name	_____
Fixture Type	_____
Catalog Number	_____
Approved by	_____

PRODUCT FEATURES:

- » Two operational modes: White Disinfection Mode & Indigo Disinfection Mode
- » High performance LED arrays provide uniform lens appearance
- » Diffused high-efficiency lens for reduced glare
- » Symmetric optical distribution
- » Universal housing accommodates either flange (drywall) or grid ceiling applications
- » One-piece sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- » Conducted emissions controlled as per MIL-STD-461F



SPECIFICATIONS

HOUSING: 20-gauge CRS. Hole-free, one-piece, seam-welded construction. Integral aluminum heatsink for thermal dissipation. 18-gauge housing flange with mitered and welded corners. Gloss white TGIC polyester powder-coat finish with 5-stage pre-treatment. Antimicrobial finish on all exposed painted surfaces of installed luminaire.

DOORFRAME: 18-gauge CRS. One-piece inset-style construction with welded corners. Gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Doorframe secured to housing with stainless steel aircraft cables and captive, flush-mounted Phillips-head fasteners. Antimicrobial finish standard on all exposed painted surfaces of the installed luminaire. One-piece, closed-cell silicone gasket seals doorframe to housing.

OPTICS: Symmetric optic includes diffused, impact-resistant acrylic lens.

ELECTRICAL: Serviceable composite-bodied mid-power white LED array and high-power 405 nm indigo LED array. Available 3700K and 4300K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI available. 120/277VAC, 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 with dim-to-dark capabilities in White Disinfection Mode. 700 µA maximum source current. Two operational modes: White Disinfection Mode is a white LED array for ambient lighting plus simultaneous low-power 405nm indigo array for low-level continuous environmental disinfection. Indigo Disinfection Mode is a high power 405nm Indigo LED array for continuous environmental disinfection. Operational mode determined via internal low-voltage device based upon input provided by external IC100 room control system. EMC meets or exceeds MIL STD 461F conducted requirements.

INSTALLATION: Non-IC recessed ceiling mounting into grid and flange application types. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into flange (drywall) or grid ceiling applications.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please contact Indigo-Clean@Kenall.com.

PATENT: Indigo-Clean products and technology covered by U.S. Patent No. US 9,039,966 and US 8,398,264. Product may also be covered by patents found at www.kenall.com/patents. Other patents pending.

WARRANTY: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LEDs and driver for defects resulting in a fixture lumen depreciation of 30% or greater.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. UL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 100 (ISO 5) Cleanrooms. Conducted emissions controlled as per MIL-STD-461F. CCEA Approved.



ORDERING INFORMATION (Ex: M4SEDIC-24-150I/100L-43K8-DCC-277-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Input Voltage	Doorframe	Housing	Optics	Options
M4SEDIC				DCC				SYM	
Size				Driver Type				Optics	
14	1'x4' Nominal			DCC	Dimming Constant Current			SYM	Symmetric, Diffused DR Acrylic
22	2'x2' Nominal								
24	2'x4' Nominal			Input Voltage				Options	
				120	120VAC			LEL	Emergency Integral Battery Pack
				277	277VAC			FS	Fuse & Holder
Lamp Power				Doorframe Options				RM*	Continuous Row Mounting
1'x4'				2F	18-Ga CRS Painted Antimicrobial (STD)				
75I/50L	75 Watt Indigo/50 Watt White LED			AF	Anodized Aluminum				
				PAF	Painted Antimicrobial Fabricated Aluminum				
2'x2'				5F	20-Ga Type 304 SS Brushed				
75I/50L	75 Watt Indigo/50 Watt White LED			Housing Options					
				2H	20-Ga CRS; Painted Antimicrobial (STD)				
2'x4'				5H	20-Ga Type 304 SS				
150I/100L	150 Watt Indigo/100 Watt White LED			PAH	.050" Painted Antimicrobial Aluminum				
Lamp Color									
37K8	3700K, 80 CRI								
37K9	3700K, 90 CRI								
43K8	4300K, 80 CRI								
43K9	4300K, 90 CRI								

* Only available when installing in drywall ceilings (flange mount)



www.kenall.com

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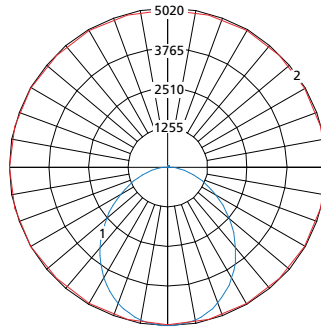
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M4SEDIC SERIES – White and Disinfection LED

Size	Mode	Lamp Code	Delivered Lumens (lm)	Input Power (W)	Color Rendering		TM-30 Color Quality		Est. L70 LED Life (Hrs)
					R _a	R _g	R _f	R _g	
2'x4'	White Disinfection Mode	150I/100L-37K8	11,760	154	84	27	74	102	125,000
		150I/100L-37K9	9,895	146	95	83	86	105	
		150I/100L-43K8	12,391	162	84	26	78	100	
		150I/100L-43K9	10,076	146	95	92	88	104	
	Indigo Disinfection Mode	All	-	165	-	-	-	-	50,000
2'x2'	White Disinfection Mode	75I/50L-37K8	5,514	77	84	27	74	102	125,000
		75I/50L-37K9	4,639	73	95	83	86	105	
		75I/50L-43K8	5,809	81	84	26	78	100	
		75I/50L-43K9	4,724	73	95	92	88	104	
	Indigo Disinfection Mode	All	-	83	-	-	-	-	50,000
1'x4'	White Disinfection Mode	75I/50L-37K8	5,660	77	84	27	74	102	125,000
		75I/50L-37K9	4,763	73	95	83	86	105	
		75I/50L-43K8	5,964	81	84	26	78	100	
		75I/50L-43K9	4,850	73	95	92	88	104	
	Indigo Disinfection Mode	All	-	83	-	-	-	-	50,000

Information subject to change without notice. TM-30 Color Vector Graphic available upon request. Visit www.kenall.com for .ies files and additional information.

Model: M4SEDIC-24-150I/100L-43K8-DCC-120-2F-2H-SYM

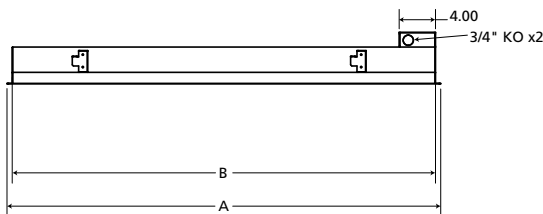
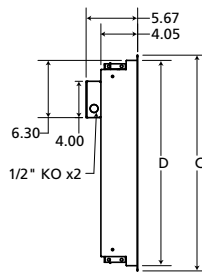
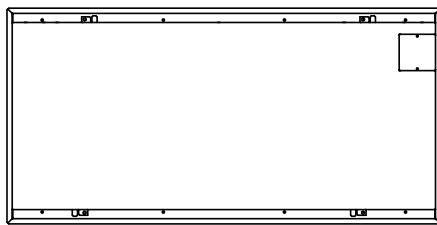


Maximum Candela = 5020 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

CROSS SECTION / DETAILS



DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
1x4	47.75	46.60	11.75	10.60
Recommended Ceiling Cut-Out 10.85 x 46.85				
2x2	23.61	22.60	23.61	22.60
Recommended Ceiling Cut-Out 22.85 x 22.85				
2x4	47.75	46.60	23.75	22.60
Recommended Ceiling Cut-Out 22.85 x 46.85				



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