

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
- » 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 4000K and 5000K 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 (see [here](#) for specification). 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 adapter kit. Grid installation suitable for 1" and 1.5" T-bar ceilings.

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-G-150I/100L-40K8-DCC-277-2F-2H-SYM)

Model	Size	Mounting Type	Lamp Power	Lamp Color	Driver	Input Voltage	Doorframe	Housing	Optics	Options
M4SEDIC					DCC				SYM	
Size					Driver Type				Optics	
14	1' 4' Nominal				DCC Dimming Constant Current				SYM Symmetric, Diffused DR Acrylic	
22	2' x 2' Nominal									
24	2' x 4' Nominal				Input Voltage				Options	
					120 120VAC				LEL Emergency Integral Battery Pack	
					277 277VAC				FS Fuse & Holder	
Mounting Type					Doorframe Options				RM* Continuous Row Mounting	
G	Grid Ceilings				2F 18-Ga CRS Painted Antimicrobial (STD)					
F	Flange/Drywall Ceilings				AF Anodized Aluminum					
Lamp Power					PAF Painted Antimicrobial Fabricated Aluminum					
1'x4'					5F 20-Ga Type 304 SS Brushed					
75I/50L	75 Watt Indigo/50 Watt White LED				Housing Options					
2'x2'					2H 20-Ga CRS; Painted Antimicrobial (STD)					
75I/50L	75 Watt Indigo/50 Watt White LED				5H 20-Ga Type 304 SS					
2'x4'					PAH .050" Painted Antimicrobial Aluminum					
150I/100L	150 Watt Indigo/100 Watt White LED									
Lamp Color										
40K8	4000K, 80 CRI									
40K9	4000K, 90 CRI									
50K8	5000K, 80 CRI									
50K9	5000K, 90 CRI									

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



www.kenall.com

P: 800-4-Kenall

F: 262-891-9701

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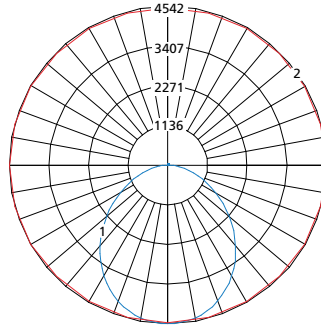
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M4SEDIC SERIES – White and Disinfection LED

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- 40K8	12,933	177	85	29	72	102	125,000
		150I/100L- 40K9	11,211	175	92	90	76	108	
		150I/100L- 50K8	13,974	199	84	34	69	102	
		150I/100L- 50K9	11,622	171	92	96	78	107	
	Indigo Disinfection Mode	-	-	165	-	-	-	-	
2'x2'	White Disinfection Mode	75I/50L- 40K8	6,467	89	85	29	72	102	125,000
		75I/50L- 40K9	5,606	88	92	90	76	108	
		75I/50L- 50K8	6,987	100	84	34	69	102	
		75I/50L- 50K9	5,811	86	92	96	78	107	
	Indigo Disinfection Mode	-	-	83	-	-	-	-	
1'x4'	White Disinfection Mode	75I/50L- 40K8	6,467	89	84	33	72	102	125,000
		75I/50L- 40K9	5,606	88	92	90	76	108	
		75I/50L- 50K8	6,987	100	84	34	69	102	
		75I/50L- 50K9	5,811	86	92	96	78	107	
	Indigo Disinfection Mode	-	-	83	-	-	-	-	

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-G-150I/100L-40K9-DCC-120-2F-2H-SYM

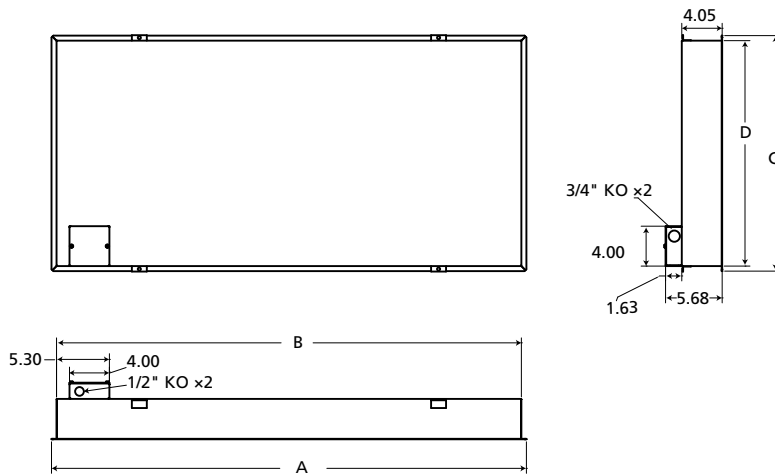


Maximum Candela = 4542 Located At Horizontal Angle = 0, Vertical Angle = 2.5

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	47.61	46.60	11.61	10.60
Recommended Ceiling Cut-Out 12.50 x 48.50				
2x2	23.61	22.60	23.61	22.60
Recommended Ceiling Cut-Out 24.50 x 24.50				
2x4	47.61	46.60	23.61	22.60
Recommended Ceiling Cut-Out 24.50 x 48.50				



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