PROJECT	Job Name	 Catalog Number	
INFORMATION	Fixture Type	 Approved by	

MEDMASTER™

Luminaires for Hybrid Operating Rooms

MRI4SEDI SERIES – White LED

PRODUCT FEATURES:

- » Non-ferrous construction and remote power supplies provide safe operation with advanced medical imaging devices
- » Symmetric, symmetric/asymmetric and full asymmetric optic distributions with uniform lens appearance
- » Universal recessed housing accommodates either flange or grid applications
- » One-piece sealed housing; smooth exterior doorframe and lens for infection prevention and simplified cleaning protocols
- » High-output, high CRI LED lamp sources
- » For Hybrid OR luminaires with Green LEDs, click here



SPECIFICATIONS

HOUSING: Hole-free, one-piece, seam-welded aluminum construction. 0.050" aluminum housing flange with mitered and welded corners. Non-ferrous components and hardware. Gloss white TGIC polyester powder-coat finish with 5-stage pre-treatment. Antimicrobial finish on all exposed painted surfaces of installed luminaire.

DOORFRAME: 0.050" aluminum. 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 aircraft cables and captive, flush-mounted Phillips-head fasteners. Non-ferrous hardware. Antimicrobial finish standard on all exposed painted surfaces of the installed luminaire. Closed-cell silicone gasket seals doorframe to housing.

OPTICS: High-efficiency diffused, impact-resistant acrylic lens. Symmetric/asymmetric and full asymmetric optic adds internal Total Internal Reflection optics to work in conjunction with diffused lens providing asymmetry while maintaining uniform appearance.

ELECTRICAL: Serviceable mid-power LED array. Minimum 80CRI standard, 90CRI optional. See Ordering Information for available color temperature options. Luminaire input 24VDC from remote-located 120-277VAC, high-power-factor power supply with EMI filter. Dimming line EMI filter required if utilizing dimming function. Internal non-switch mode DC-DC driver. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. See below for ordering information and power supply/filter accessories.

INSTALLATION: IC-rated installation into recessed grid and drywall ceilings. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into grid or flange (drywall) ceiling applications. All power and signal wiring must be in completely grounded aluminum conduit. Light engine and internal driver are replaceable post-installation. MRI room EMI filters required (see Accessories below). Suitable for 0°C to 25°C ambient temperature environments.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. IP65 rating per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Compliant with MIL-STD 461G for radiated and conducted emissions. CCEA Approved.



Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options
MRI4SE	DI			DIM1	24V	PAF	PAH	_	
Size			Lamp Color				Housing Op	tions	
14 1'×	4' Nominal		30K8 3000K, 8	0 CRI				0" Antimicrobial Pain	ted Aluminum
22 2'×	<2' Nominal		30K9 3000K, 9	0 CRI					
24 2'×	4' Nominal		35K8 3500K, 8	0 CRI			Optics		
			35K9 3500K, 9	0 CRI			SYM Sym	nmetric, Diffused DR A	Acrylic
amp Powe	er		40K8 4000K, 8						optic with Diffused DR Acrylic
'×4'			40K9 4000K, 9	0 CRI			FASYM Full	Asymmetric Optic wi	th Diffused DR Acrylic
	Watt LED								
6L 76	Watt LED		Driver Type				Options		
			DIM1 0-10V Dimm	ng to 1% with	Dim-to-Dark			nuous Row Mountin	g
!'×2'	W LED		14 Is				2C● Two-	Circuit Wiring	
OL 50	Watt LED		Voltage						
1141			24V 24VDC Input						
<u>2'×4'</u> 1 00L 100	0 Watt LED		Doorframe Option	•			* Only availa	ble when installing ir	drywall ceilings (flange
100L 100	J Wall LLD				ated Aluminum		mount). Mi	ullion in aluminum.	
			IAI AIIIIIIICIODIA	Tallited Tablic	ateu Alummum		 n/a with 38 	BL Lamp Type.	
						ACCESSORIE	S ORDERED SE	PARATELY	
						MRIPSF	Remote Power S	upply with EMI Filter (cl	ick here for specifications)



Dimming Filter (one per dimming circuit, click <u>here</u> for specifications)

MRIFD-1A

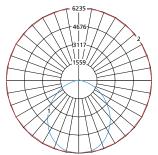
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MRI4SEDI SERIES – TECHNICAL DATA

PERFORMANO	CE	Initial Delivered Lumens by Optic (Im)]		
Model	Lamp Type	SYM	ASYM	FASYM	Efficacy (lm/W)	Input Power (W)	Estd. L ₇₀ LED Life (Hrs)
	38L-30K8	4,813	><	4,643	97 - 100	48	70,000
	38L-30K9	4,160	> <	4,014	83 - 86	48	70,000
	38L-35K8	4,961	$>\!<$	4,787	100 - 103	48	70,000
	38L-35K9	4,260	> <	4,111	85 - 89	48	70,000
	38L-40K8	5,131	> <	4,950	103 - 107	48	70,000
MRI4SEDI-14	38L-40K9	4,366	> <	4,213	88 - 91	48	70,000
MKI4SEDI-14	76L-30K8	9,625	9,423	9,287	97 - 100	96	70,000
	76L-30K9	8,320	8,145	8,027	83 - 86	96	70,000
	76L-35K8	9,923	9,715	9,574	100 - 103	96	70,000
	76L-35K9	8,521	8,342	8,221	85 - 89	96	70,000
	76L-40K8	10,261	10,046	9,900	103 - 107	96	70,000
	76L-40K9	8,732	8,549	8,425	88 - 91	96	70,000
	50L-30K8	7,030	7,033	6,674	111 - 117	60	85,000
	50L-30K9	6,077	6,079	5,769	96 - 101	60	85,000
	50L-35K8	7,247	7,251	6,880	114 - 120	60	85,000
MRI4SEDI-22	50L-35K9	6,224	6,227	5,908	98 - 103	60	85,000
	50L-40K8	7,495	7,498	7,115	118 - 124	60	85,000
	50L-40K9	6,378	6,381	6,055	100 - 106	60	85,000
MRI4SEDI-24	100L-30K8	14,571	14,649	13,698	113 - 121	121	85,000
	100L-30K9	12,595	12,662	11,841	98 - 105	121	85,000
	100L-35K8	15,022	15,102	14,122	117 - 125	121	85,000
	100L-35K9	12,900	12,969	12,127	100 - 107	121	85,000
	100L-40K8	15,535	15,617	14,604	121 - 129	121	85,000
	100L-40K9	13,220	13,291	12,428	103 - 110	121	85,000

Information Subject to change without notice. Visit www.kenall.com for .ies files and additional information.

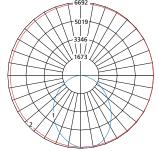
Model: MRI4SEDI-24-100L-40K8-DIM1-24V-PAF-PAH-SYM



Max Candela = 6235 Located At Horizontal Angle = 90, Vertical Angle = 2.5

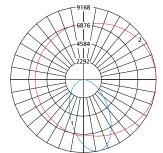
— 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MRI4SEDI-24-100L-40K8-DIM1-24V-PAF-PAH-ASYM



 $\label{eq:max-candela} \mbox{Max Candela} = \mbox{6692 Located At Horizontal Angle} = \mbox{0, Vertical Angle} = \mbox{5}$

— 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) — 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.) Model: MRI4SEDI-24-100L-40K8-DIM1-24V-PAF-PAH-FASYM



 $\mbox{Max Candela} = 9168 \mbox{ Located At Horizontal Angle} = 0, \mbox{Vertical Angle} = 12.5$

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

MRI LUMINAIRE CONNECTION LIMITS PER POWER SUPPLY

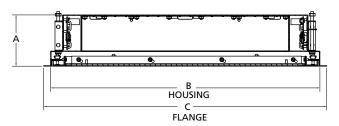
Size	Lamp Power	Amps per Luminaire	Max. Luminaires per Power Supply (MRIPSF-480)	Max. Luminaires per Power Supply (MRIPSF-240)	Max. Luminaires per Power Supply (MRIPSF-120)
14	38L	2.38	8	4	2
14	76L	4.76	4	2	1
22	50L	2.98	6	3	1
24	100L	5.96	3	1	0

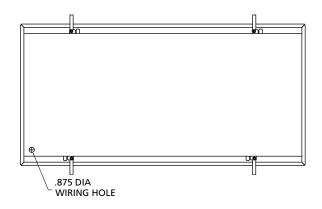
NOTE: Multiple Kenall MRI product types may be powered from a single power supply/filter as long as the maximum current rating is not exceeded (20A - 480W, 10A - 240W, 5A - 120W). Green circuits (G) and white circuits (W) on combined luminaires shall be powered by separate power supplies for switching purposes.

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MRI4SEDI SERIES – TECHNICAL DATA

DIMENSIONAL DATA





DIMENSIONAL DATA (IN INCHES)						
	Α	В	C			
1×4	4.30	10.60×46.60	11.75×47.75			
Recommen	ded Ceiling Cut-0	Out 10.85 × 46.85				
2×2	4.30	22.60 × 22.60	23.75×23.75			
Recommended Ceiling Cut-Out 22.85 × 22.85						
2×4	4.30	22.60 × 46.60	23.75×47.75			
Recommen	ded Ceiling Cut-0	Out 22.85 × 46.85				