

# MEDMASTER™ Surgical Suite Luminaires

## M4SEDI SERIES – Green & White LED

### PRODUCT FEATURES:

- » Green LED circuit creates an application optimized spectrum for increased visual acuity with no transmission loss due to filters
- » Diffused high-efficiency lens for reduced glare
- » Symmetric, asymmetric/symmetric and full asymmetric optic distributions with uniform lens appearance
- » Universal housing accommodates either flange or grid applications
- » One-piece sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols
- » Conducted emissions controlled as per MIL-STD-461G
- » For M4SEDI with all White LEDs, [click here](#)



### PROJECT INFORMATION

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

### 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:** 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 composite-bodied mid-power white LED array. Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI available. 530 nm green mid-power LED array. 120/277VAC or 347VAC, 50/60Hz electrical input with replaceable high power factor electronic, constant-current driver (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range. Dim-to-dark capabilities on white circuit. 600 µA max. source current. EMC meets or exceeds FCC CFR Part 15 and MIL STD 461F requirements. White and green circuit can be independently powered and dimmed.

**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 grid or flange (drywall) ceiling applications.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to [www.kenall.com](http://www.kenall.com).

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

**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 1 (ISO 3) Cleanrooms. Conducted emissions controlled as per MIL-STD-461G. CCEA Approved.



### ORDERING INFORMATION (Ex: M4SEDI-24-43G/100L-40K8-DCC-277-2F-2H-ASYM)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options
<b>M4SEDI</b>				<b>DCC</b>					
<b>Size</b>				<b>Lamp Color*</b>			<b>Housing Options</b>		
14	1'x4' Nominal			30K8	3000K, 80 CRI		2H	20-Ga Antimicrobial Painted CRS (STD)	
22	2'x2' Nominal			35K8	3500K, 80 CRI		5H	20-Ga Type 304 SS	
24	2'x4' Nominal			35K9	3500K, 90 CRI		PAH	.050" Antimicrobial Painted Aluminum	
				40K8	4000K, 80 CRI				
				40K9	4000K, 90 CRI				
<b>Lamp Power</b>				50K8	5000K, 80 CRI				
1'x4'				50K9	5000K, 90 CRI				
40G/38L		40 Watt Green/38 Watt White LED							
80G		80 Watt Green LED							
				<b>Driver Type</b>					
2'x2'				DCC	Dimming Constant Current				
43G/50L		43 Watt Green/50 Watt White LED							
86G		86 Watt Green LED							
				<b>Voltage</b>					
2'x4'				120	120VAC, 50/60Hz				
43G/50L		43 Watt Green/50 Watt White LED		277	277VAC, 50/60Hz				
43G/100L		43 Watt Green/100 Watt White LED		347	347VAC, 60Hz				
129G		129 Watt Green LED							
				<b>Doorframe Options</b>					
				2F	18-Ga CRS Antimicrobial Painted CRS (STD)				
				AF	Anodized Aluminum				
				PAF	Antimicrobial Painted Fabricated Aluminum				
				5F	20-Ga Type 304 SS Brushed				
									For M4SEDI with all White LEDs, <a href="#">click here</a>
									* Only available when installing in drywall ceilings (flange mount)
									† Add .375" to ceiling cut out dimensions
									‡ Wired to white LED when green/white lamping is selected; n/a 347V
									• n/a for all-green lamp configurations
									‡ Height of fixture is 8.75" with LEL Option



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M4SEDIGREEN-101118

# MEDMASTER™

## M4SEDI SERIES – TECHNICAL DATA

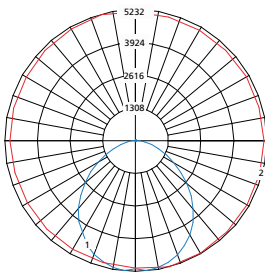
### PERFORMANCE

#### Green/White LED

Size	Lamp Type	GREEN Circuit - Initial Delivered Lumens			White Circuit - Initial Delivered Lumens			Input Power (W)	Estd. L <sub>70</sub> LED Life (hrs)
		SYM/ASYM (lm)	FASYM (lm)	Input Power (W)	SYM (lm)	ASYM (lm)	FASYM (lm)		
1' x 4'	40G/38L-30K8	2,581	2,412	46	4,409	4,120	4,120	44	85,000 / 85,000
	40G/38L-35K8	2,581	2,412	46	4,409	4,120	4,120	44	85,000 / 85,000
	40G/38L-35K9	2,581	2,412	46	3,549	3,317	3,317	44	85,000 / 85,000
	40G/38L-40K8	2,581	2,412	46	4,553	4,255	4,255	44	85,000 / 85,000
	40G/38L-40K9	2,581	2,412	46	3,627	3,389	3,389	44	85,000 / 85,000
	40G/38L-50K8	2,581	2,412	46	4,358	4,073	4,073	44	85,000 / 85,000
	40G/38L-50K9	2,581	2,412	46	3,807	3,558	3,558	44	85,000 / 85,000
2' x 2'	43G/50L-30K8	2,589	2,486	44	6,321	6,343	6,071	59	85,000 / 85,000
	43G/50L-35K8	2,589	2,486	44	6,321	6,343	6,071	59	85,000 / 85,000
	43G/50L-35K9	2,589	2,486	44	5,088	5,106	4,887	59	85,000 / 85,000
	43G/50L-40K8	2,589	2,486	44	6,528	6,551	6,270	59	85,000 / 85,000
	43G/50L-40K9	2,589	2,486	44	5,200	5,218	4,994	59	85,000 / 85,000
	43G/50L-50K8	2,589	2,486	44	6,249	6,270	6,001	59	85,000 / 85,000
	43G/50L-50K9	2,589	2,486	44	5,459	5,477	5,243	59	85,000 / 85,000
2' x 4'	43G/50L-30K8	2,724	2,471	45	6,734	6,519	6,108	55	85,000 / 120,000
	43G/50L-35K8	2,724	2,471	45	6,734	6,519	6,108	55	85,000 / 120,000
	43G/50L-35K9	2,724	2,471	45	5,421	5,247	4,916	55	85,000 / 120,000
	43G/50L-40K8	2,724	2,471	45	6,955	6,732	6,308	55	85,000 / 120,000
	43G/50L-40K9	2,724	2,471	45	5,539	5,362	5,024	55	85,000 / 120,000
	43G/50L-50K8	2,724	2,471	45	6,657	6,444	6,038	55	85,000 / 120,000
	43G/50L-50K9	2,724	2,471	45	5,815	5,629	5,274	55	85,000 / 120,000
	43G/100L-30K8	2,724	2,471	45	12,504	12,104	11,341	117	85,000 / 85,000
	43G/100L-35K8	2,724	2,471	45	12,504	12,104	11,341	117	85,000 / 85,000
	43G/100L-35K9	2,724	2,471	45	10,065	9,743	9,129	117	85,000 / 85,000
	43G/100L-40K8	2,724	2,471	45	12,913	12,500	11,712	117	85,000 / 85,000
	43G/100L-40K9	2,724	2,471	45	10,286	9,957	9,329	117	85,000 / 85,000
	43G/100L-50K8	2,724	2,471	45	12,360	11,965	11,211	117	85,000 / 85,000
43G/100L-50K9	2,724	2,471	45	10,798	10,452	9,794	117	85,000 / 85,000	

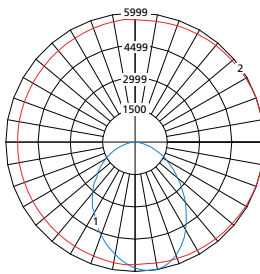
Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for .ies files and additional information

Model: M4SEDI24-43G/100L-40K8-DCC-120-2F-2H-SYM (White)



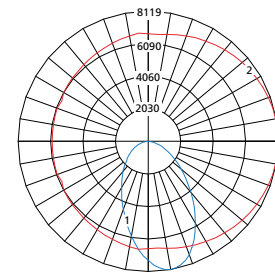
Max Candela = 5232 Located At Horizontal Angle = 285, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (285 - 105) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Model: M4SEDI24-43G/100L-40K8-DCC-120-2F-2H-ASYM (White)



Max Candela = 5999 Located At Horizontal Angle = 0, Vertical Angle = 7.5  
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

Model: M4SEDI24-43G/100L-40K8-DCC-120-2F-2H-FASYM (White)



Max Candela = 8119 Located At Horizontal Angle = 0, Vertical Angle = 10  
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

#### Green LED

Size	Lamp Type	Green LED - Initial Delivered Lumens			Input Power (W)	Drive Current (mA)	Estd. L <sub>70</sub> LED Life (hrs)
		SYM (lm)	ASYM (lm)	FASYM (lm)			
1' x 4'	80G	5,162	5,062	4,977	92	131	85,000
2' x 2'	86G	5,178	5,196	4,973	88	131	85,000
2' x 4'	129G	7,860	7,608	7,129	132	131	85,000



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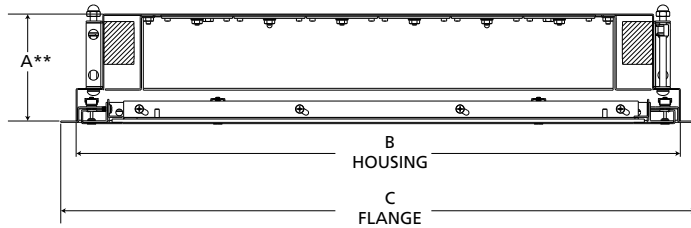
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# MEDMASTER™

## M4SEDI SERIES – TECHNICAL DATA

### DIMENSIONAL DATA

#### CROSS SECTION / DETAILS

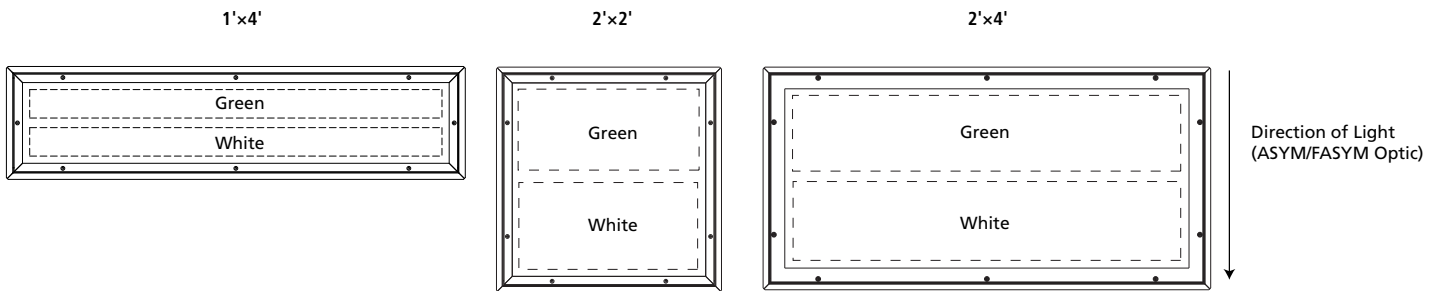


#### DIMENSIONAL DATA (IN INCHES)

	A	B	C
<b>1×4</b>	4.00	10.60 × 46.60	11.75 × 47.75
Recommended Ceiling Cut-Out 10.85 × 46.85*			
<b>2×2</b>	4.00	22.60 × 22.60	23.75 × 23.75
Recommended Ceiling Cut-Out 22.85 × 22.85*			
<b>2×4</b>	4.00	22.60 × 46.60	23.75 × 47.75
Recommended Ceiling Cut-Out 22.85 × 46.85*			

\* Add .375" to ceiling cut out dimensions when IF Option is specified  
 \*\* Height is 8.261" with LEL Option

#### GREEN/WHITE LED LAYOUTS



NOTE: 'ASYM' optic on green/white LED configurations provide symmetric/asymmetric distribution on white LEDs (1×4 model has full asymmetric distribution on white LEDs). Green LEDs have a symmetric (Lambertian) distribution. Consult factory for asymmetric distribution options for green LEDs.



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