

MEDMASTER® MEDSLOT™

Luminaires for Patient/Exam Rooms

MRS4 SERIES with BIOS SkyBlue™

PRODUCT FEATURES:

- » 4" recessed linear slot luminaire in multiple lengths
- » Single-function luminaire provides ambient lighting within the patient room
- » No visible room-side fasteners for clean aesthetic
- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » High R9 value and High CRI provide biologically optimized LED spectrum for early detection of cyanosis.



SPECIFICATIONS

HOUSING: Extruded 6063-T5 aluminum construction with gasketed aluminum endcaps. Low-gloss anti-microbial white TGIC polyester powder-coat finish with five-stage pre-treatment.

OPTIC: Symmetric (Lambertian) distribution. Snap-in, one-piece extruded frost DR acrylic diffuser.

LED MODULE: Serviceable static, dynamic or tunable mid-power Gen 2 BIOS Biological LED modules. Biological Static, Biological Dynamic, and Biological Tunable LED source with blue spectrum peak at 490nm and higher melanopic ratio. CRI 80+ with R9 > 90. Dynamic features 500K downward CCT shift when dimmed for evening applications requiring lower melanopic ratio. Tunable features 2700K CCT for evening applications. Refer to table for specific melanopic values.

DRIVER/CONTROL: 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). **Biological Static:** Serviceable, constant-current single channel driver with single analog (0-10V) control input for intensity, 1-100% range with dim to dark capabilities and a linear dimming curve. **Biological Dynamic:** Serviceable constant-current driver with the BIOS Dynamic Bio-Dimming™ module keeps light output constant while reducing melanopic lux. Single analog (0-10V) control input, 1-100% dimming range with dim-to-dark capabilities and a linear dimming curve. Dimming from 100-75% reduces CCT by 500K, dimming below 75% reduces light level. **Biological Tunable:** Serviceable, constant-current multi-channel programmable driver with dual analog (0-10V) control inputs for intensity and CCT. Optional DALI (Type 8) driver. Logarithmic intensity profile with 0.1-100% range, with dim-to-dark capabilities. Linear profile on CCT adjustment.

INSTALLATION: Suitable for Type-IC recessed ceiling installation into 9/16" and 15/16" lay-in and tegular grid ceilings, flanged drywall ceilings and trimless mud-in installations with 5/8" drywall. See Ordering Information for selection. Suitable for 0°C - 40°C ambient temperature environments.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For detailed photometric information, please visit www.kenall.com.

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Type-IC and Wet Location installations. IP64 rating per IEC60598. NSF2 Splash/Non-Food Zone rated. Standard CCEA compliance.



ORDERING INFORMATION (Ex: MRS4-48-G-SYM-1000LFB-35K8-DIM1-DV-LVC/M-FS)

Model	Length	Ceiling Configuration	Optical Distribution	Lamp Power	Lamp Color	Driver Type	Voltage	Low-Voltage Controller	LVC Master / Satellite	Options
MRS4			SYM				DV		/	
	Nominal Length			Lamp Color			Input Voltage			
	24 2'			35K8 3500K SkyBlue / 80CRI min / R9 90+			DV 120-277VAC, 50/60Hz			
	48 4'			40K8 4000K SkyBlue / 80CRI min / R9 90+						
	Ceiling Configuration			Driver Type			Low-Voltage Controller (Optional)			
	G 9/16" and 15/16" Lay-In Grid			DIM1 BIOS Biological Static with 0-10V Dimming to 1% with Dim-to-Dark Capabilities			LVC* Low Voltage Controller (click here for specifications)			
	TG 9/16" and 15/16" Tegular Grid			BIODIM1 BIOS Biological Dynamic with 0-10V Intensity Dimming to 1% and Dim-to-Dark Capabilities			LVCD* Low Voltage Controller with Dimming (click here for specifications)			
	FL Flange			ATW BIOS Biological Tunable White with 0-10V Control of Intensity and CCT independently on 2 separate channels			LVC Master/Satellite for Paired Installations^			
	TM Trimless Mud-In for 5/8" Drywall			DTW BIOS Biological Tunable White with DALI Control of Intensity and CCT independently on 2 separate channels			M Paired 'Master-Control' Luminaire			
	Optical Distribution						S Paired 'Satellite-Control' Luminaire			
	SYM Symmetric						Options			
	Lumen Output						LEL** Integral Emergency Battery Backup with Remote Test Button			
	400LFB 400 lumens/ft						FS Fuse & Holder			
	600LFB 600 lumens/ft									
	1000LFB 1000 lumens/ft									

* N/A with BIODIM1 in 2' length
 ^ N/A for products not configured with an LVC option. Paired installations shall be ordered with equal quantities of Type 'M' and 'S' units. AC power feed required to both. Lamp control originates from LVC located in the Master unit. Control wiring method between luminaires supplied by others.
 • LEL only available in Satellite unit when ordered in conjunction with an LVC or LVCD controller. Not available with DTW Driver Type.

ACCESSORIES ORDERED SEPARATELY
 MPWS Low Voltage Wall Switch (Click [here](#) for Specifications)



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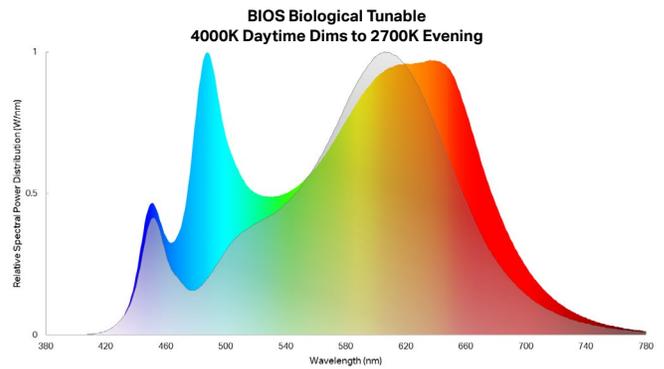
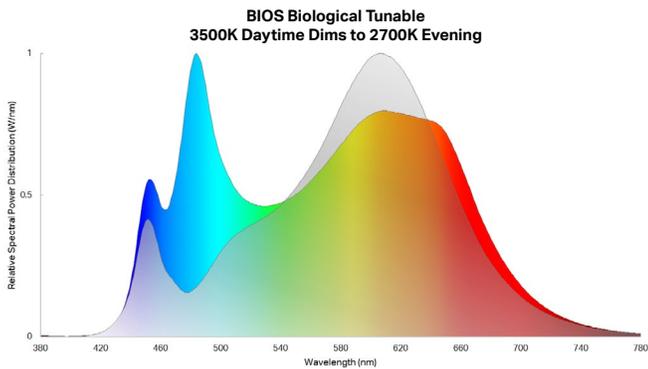
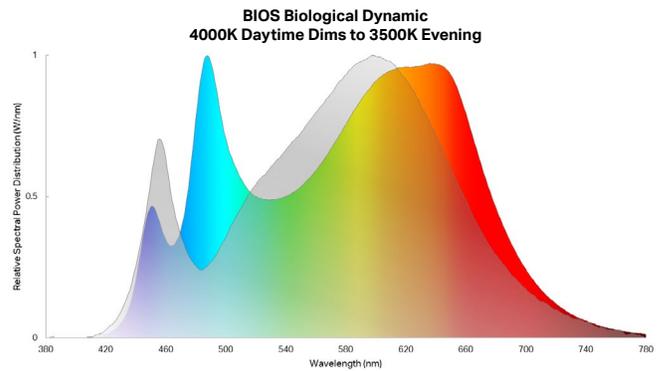
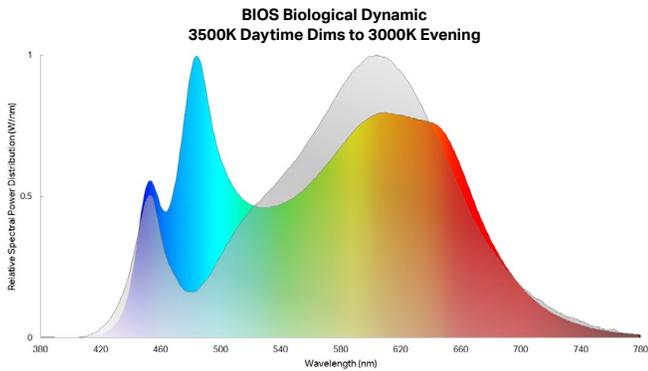
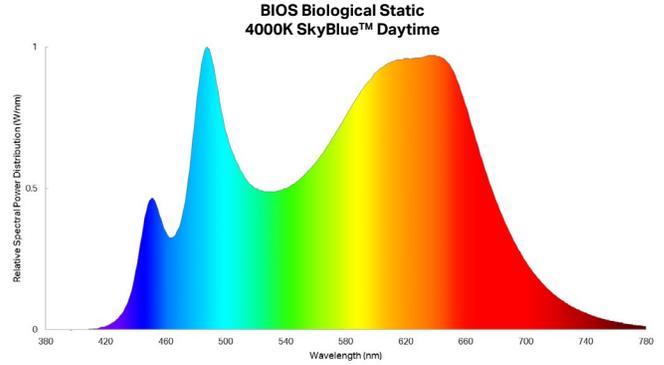
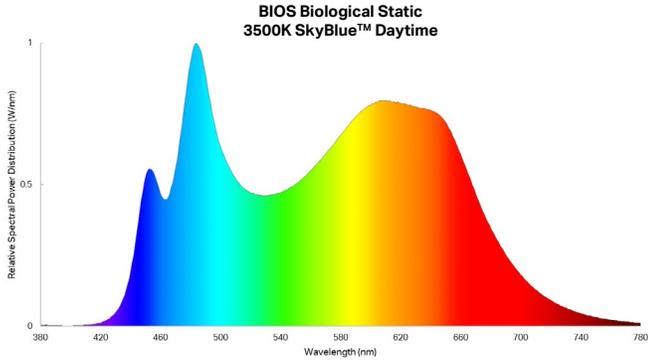
DELIVERED MELANOPIC RATIO OF 35K8 BIOS

BIOS Type	Spectral Mode	Nominal CCT	Melanopic Ratio*	
			m-EER	m-DER
Biological Static	Daytime	3500K	≥0.80	≥0.72
Biological Dynamic	Daytime	3500K	≥0.80	≥0.72
	Evening	3000K	≤0.49	≤0.44
Biological Tunable	Daytime	3500K	≥0.80	≥0.72
	Evening	2700K	≤0.47	≤0.42

DELIVERED MELANOPIC RATIO OF 40K8 BIOS

BIOS Type	Spectral Mode	Nominal CCT	Melanopic Ratio*	
			m-EER	m-DER
Biological Static	Daytime	4000K	≥0.90	≥0.81
Biological Dynamic	Daytime	4000K	≥0.90	≥0.81
	Evening	3500K	≤0.57	≤0.51
Biological Tunable	Daytime	4000K	≥0.90	≥0.81
	Evening	2700K	≤0.47	≤0.42

*Melanopic ratios are provided in two forms: (m-EER) which is calculated using the WELL v2 methodology and the corresponding CIE melanopic Daylight Equivalent Ratio, (m-DER).



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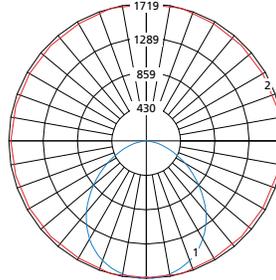
PERFORMANCE

Initial Delivered Lumens per Foot, by CCT

Length	Distribution Type	Nominal Lumen Output	Initial Delivered Lumens per Foot, by CCT		Efficacy (lm/W)	Unit Input Power (W/ft)	Estd. L ₇₀ LED Life (Hrs)
			35K8	40K8			
24", 48"	SYM	400LFB	390	424	99 - 107	4	85,000
		600LFB	583	633	99 - 107	6	
		1000LFB	938	1,018	93 - 101	10	

NOTE: Nominal Lumen Output values based on 40K8 lamp color. Information subject to change without notice. Visit www.kenall.com for IES files and additional

Model: MRS4-48-yy-SYM-1000LFB-35K8-DIM1-zzz



Maximum Candela = 1719 Located At Horizontal Angle = 75, Vertical Angle = 2.5

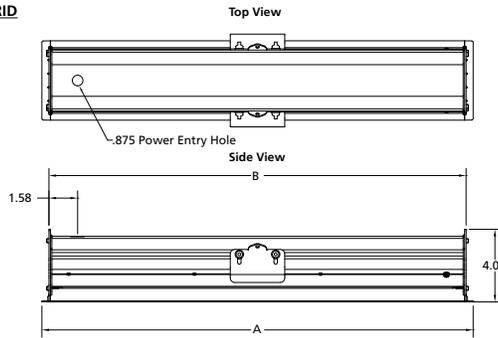
- 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

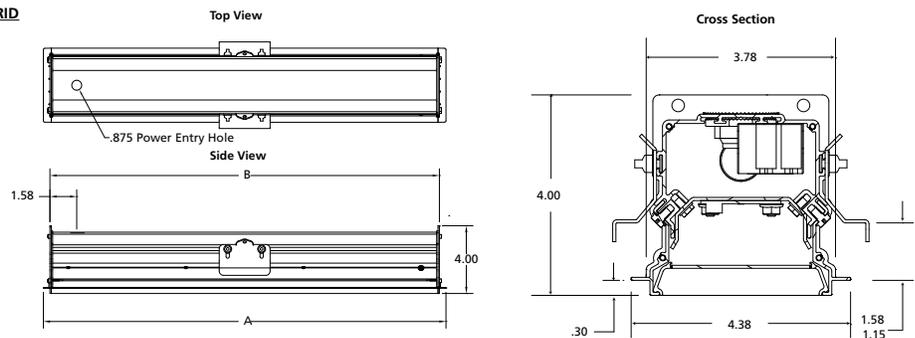
Nominal Length	Ceiling Configuration	A	B
24	LAY-IN GRID	23.75"	22.97"
	TEGULAR	23.75"	22.97"
48	LAY-IN GRID	47.75"	46.97"
	TEGULAR	47.75"	46.97"

NOTE: Standard (non-LVC) and LVC Satellite units supplied with one (1) 0.875" hole on back of housing. When ordered with the LVC or LVCD option, the Master unit is provided with two (2) 0.875" holes.

LAY-IN GRID



TEGULAR GRID



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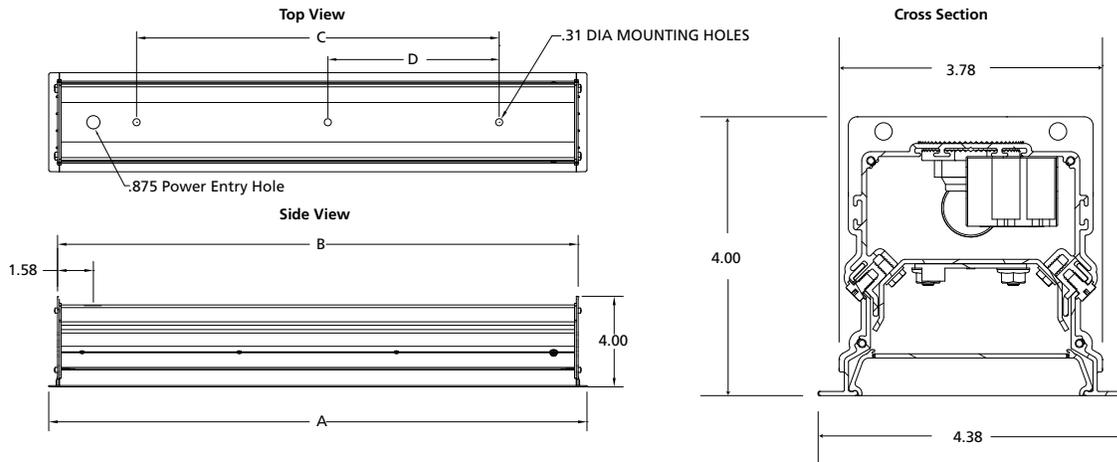
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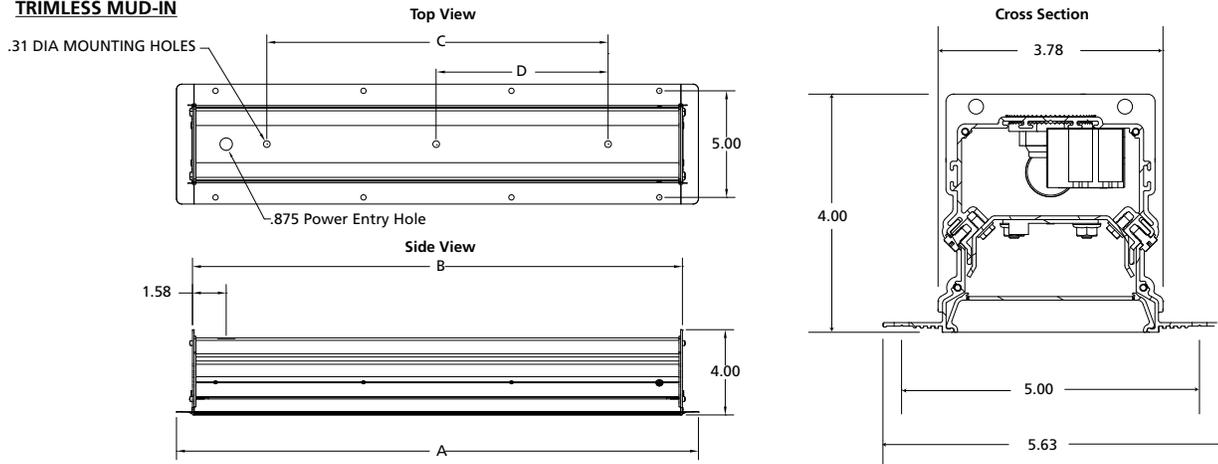
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DIMENSIONAL DATA

FLANGE



TRIMLESS MUD-IN



Nominal Length	Ceiling Configuration	A	B	C	D	Ceiling Cut-Out
24	FLANGE	23.75"	22.97"	16.00"	----	3.875" x 23.25"
	TRIMLESS	24.47"	22.97"	16.00"	----	
48	FLANGE	47.75"	46.97"	40.00"	----	3.875" x 47.25"
	TRIMLESS	48.47"	46.97"	40.00"	----	

NOTE: Standard (non-LVC) and LVC Satellite units supplied with one (1) 0.875" hole on back of housing. When ordered with the LVC or LVCD option, the Master unit is provided with two (2) 0.875" holes.



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