

## MIGHTY MAC™

### RMCD SERIES with BIOS SkyBlue™

#### PRODUCT FEATURES:

- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » Recessed convertible ceiling mount
- » TIG-welded housing without post-weld grinding for additional strength
- » Full-length concealed internal piano hinge
- » Ligature resistant construction



#### SPECIFICATIONS

**HOUSING:** Die-formed prime grade material as specified – see Ordering Information. TIG and spot welded construction.

**LENS:** As specified – maximum overall thickness 0.625" – see Ordering Information. High-efficiency diffused DR acrylic inner lens.

**LENS RETENTION:** Vertically adjustable continuous "Z" brackets of prime grade material, secured to housing via thru-studs (6" maximum spacing).

**DOOR:** One-piece die-formed prime grade material as specified – see Ordering Information. Corners continuously seam welded and smooth with no post grinding (TIG).

**HINGE:** Full length completely concealed internal piano hinge (1/2" knuckle/1/8" diameter pin) standard. Pin secured to knuckle. Hinge welded to door.

**FASTENERS:** Fully recessed hardened security screws as specified – see Ordering Information.

**FINISH:** TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

**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.

**LUMINOUS SEAL:** Polyurethane foam prevents light leaks from luminaire base.

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

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to [www.kenall.com](http://www.kenall.com).

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratory for Damp Locations. See Ordering Information for Wet Location applications. Suitable for ISO 5-8 environments when ordered with Wet Location option. Non IC rated. Ligature resistant construction.



#### ORDERING INFORMATION (Ex: RMCD-2-TG-2/1-45B-35K8-ATW-DV-SYM/9-1-FS)

Model	Size	Ceiling Type	Door/Housing	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
<b>RMCD</b>			<b>/</b>					<b>SYM /</b>		
	<b>Nominal Size</b>			<b>Lamp Power</b>				<b>Lens (Inner/Outer)†</b>		
	2 24"×24"			<b>24" X 24"</b>				<b>SYM†</b> .125" Diffused DR Acrylic		
	4 24"×48"			<b>45B</b> 45 Watt BIOS				<b>G</b> .125" Clear Polycarbonate		
				<b>67B</b> 67 Watt BIOS				<b>7</b> .187" Clear Polycarbonate		
	<b>Ceiling Type*</b>			<b>24" X 48"</b>				<b>8</b> .187" Clear Tempered Glass		
	<b>FL/TR</b> Flange/Threaded Rod			<b>45B</b> 45 Watt BIOS				<b>9</b> .250" Clear Polycarbonate		
	<b>FL/CC</b> Flange/Cross Channel			<b>67B</b> 67 Watt BIOS				<b>A</b> .250" Clear Tempered Glass		
	<b>FL/Y</b> Flange/Yoke			<b>90B</b> 90 Watt BIOS				<b>B</b> .375" Clear Polycarbonate		
	<b>FL/SA</b> Flange/Swing-Out Arms							<b>C</b> .375" Clear Tempered Glass		
	<b>TG</b> T-Grid			<b>Lamp Color</b>				<b>J</b> .500" Clear Polycarbonate		
	<b>MP*</b> Metal Pan			<b>35K8</b> 3500K SkyBlue / 80CRI min / R9 90+				<b>P</b> .500" Clear Tempered Glass		
	<b>CZ</b> Concealed Z-Spline			<b>40K8</b> 4000K SkyBlue / 80CRI min / R9 90+				<b>Fastener</b>		
	<b>Door/Housing Material</b>			<b>Driver Type</b>				<b>1</b> Torx® T-20 Head w/ Center Pin		
	<b>0</b> 14-Ga CRS (Painted White)			<b>DIM1</b> BIOS Biological Static with 0-10V Dimming to 1% with Dim-to-Dark Capabilities				<b>2</b> Allen Head w/ Center Pin		
	<b>1</b> 16-Ga CRS (Painted White)			<b>BIODIM1</b> BIOS Biological Dynamic with 0-10V Intensity Dimming to 1% and Dim-to-Dark Capabilities				<b>Options</b>		
	<b>2</b> 18-Ga CRS (Painted White)			<b>ATW</b> BIOS Biological Tunable White with 0-10V Control of Intensity and CCT independently on 2 separate channels				<b>LEL</b> Integral 10W Emergency Battery Backup (4' only, 45B max; 0°C min ambient)		
	<b>3</b> 14-Ga SS (Painted White)			<b>DTW</b> BIOS Biological Tunable White with DALI Control of Intensity and CCT independently on 2 separate channels				<b>LELST</b> Integral 6W Self-Testing Emergency Battery Backup (4' only, 45B max; 0°C min ambient))		
	<b>4</b> 16-Ga SS (Painted White)							<b>DLN</b> LED Night Light (Voltage specific selection required)		
	<b>8</b> 18-Ga SS (Painted White)							<b>FS</b> Single Fuse & Holder		
	<b>6*</b> 14-Ga SS (Brushed)							<b>SC</b> Specified Ceiling		
	<b>7*</b> 16-Ga SS (Brushed)							<b>WL</b> Wet Location Listed (includes ISO 5-8 rating)		
	<b>A*</b> 18-Ga SS (Brushed)									
				<b>Voltage</b>						
				<b>DV</b> 120-277 Volts						
				<b>120</b> 120 Volts						
				<b>277</b> 277 Volts						

+ See ceiling types under DIMENSIONAL DATA for more information

\* n/a as Hsg. Material

‡ Refer to lens specifications

† Not available as Outer lens or as standalone lens option

▲ Consult Grid system manufacturer for product compatibility



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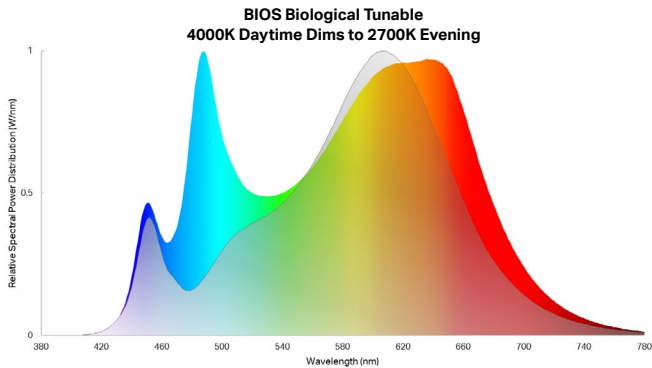
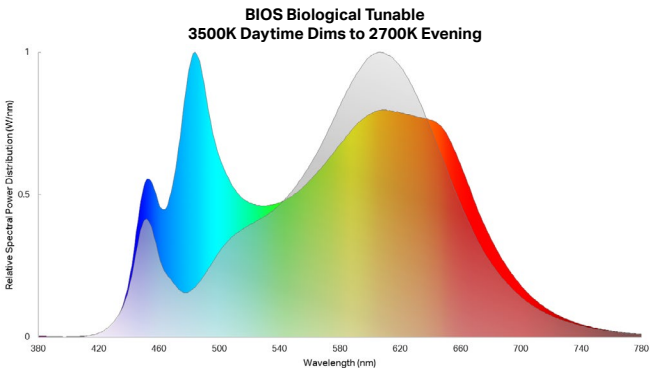
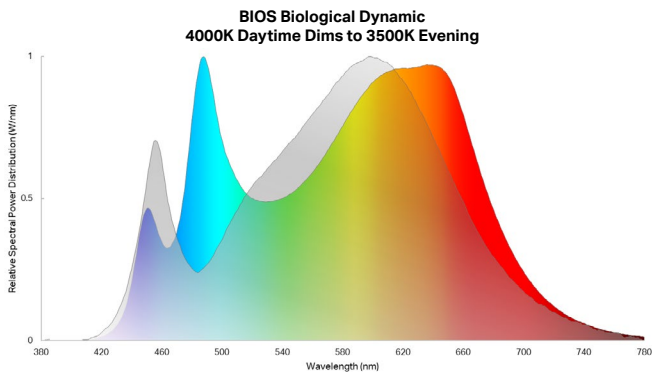
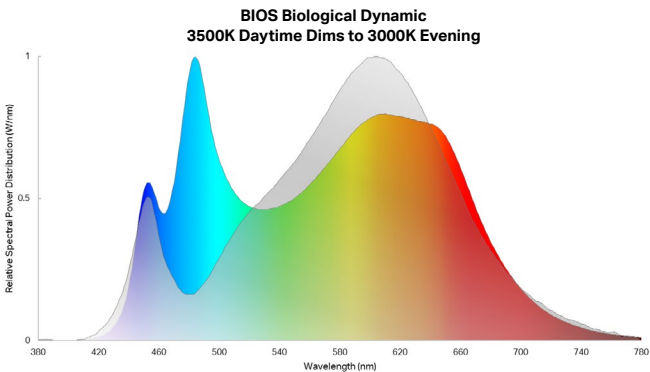
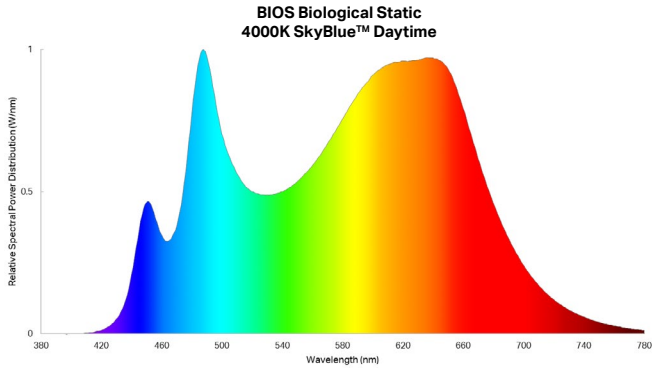
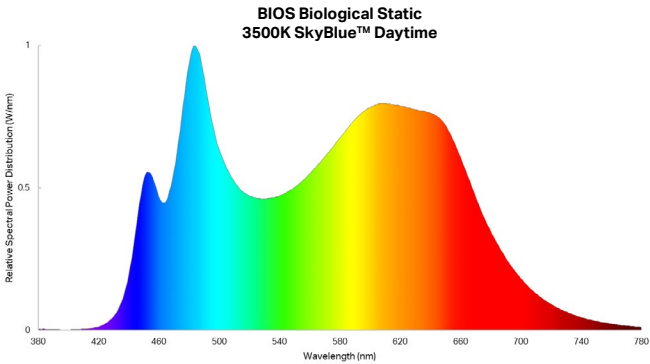
### DELIVERED MELANOPIC RATIO OF 35K8 BIOS

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

\*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).

### 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



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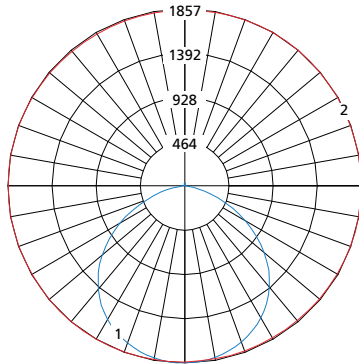
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PERFORMANCE		Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L <sub>70</sub> LED Life (Hrs)
Model	Lamp Type	Lumen Output (lm)	Efficacy (lm/W)			
RMCD-2	45B-35K8	3,221	84	46	100	80,000
	45B-40K8	3,498	87			
	67B-35K8	5,144	84	74	75	80,000
	67B-40K8	5,585	86			
RMCD-4	45B-35K8	3,591	94	46	100	80,000
	45B-40K8	3,899	97			
	67B-35K8	5,734	93	74	75	80,000
	67B-40K8	6,226	96			
	90B-35K8	7,081	89	97	100	80,000
	90B-40K8	7,689	91			

All products tested with the SYM/B lens configuration. Output with other lens configurations will vary. Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for additional information.

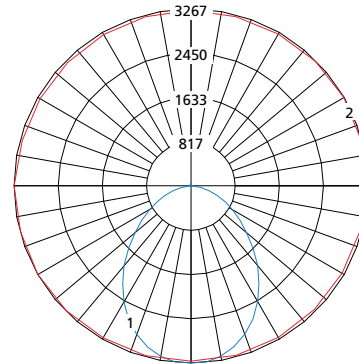
Model: RMCD-2-w-x-y-67B-35K8-DIM1-z-SYM/B-1



Maximum Candela = 1857 Located At Horizontal Angle = 230, Vertical Angle = 2.5

- 1 - Vertical Plane Through Horizontal Angles (230-50) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: RMCD-4-w-x-y-90B-35K8-DIM1-z-SYM/B-1



Maximum Candela = 3267 Located At Horizontal Angle = 210, Vertical Angle = 5

- 1 - Vertical Plane Through Horizontal Angles (210-30) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



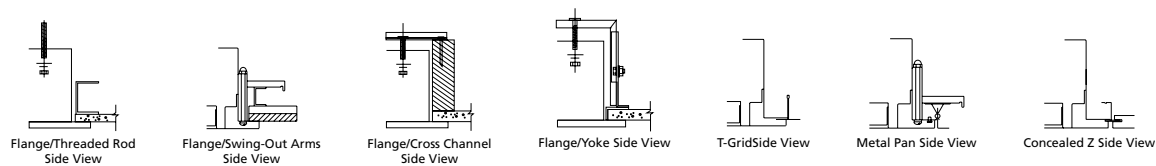
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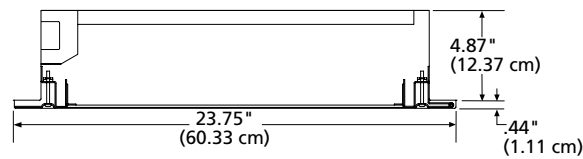
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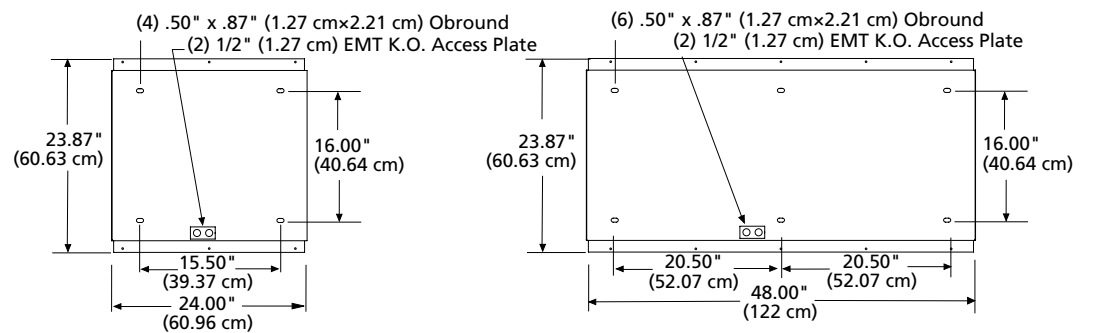
### DIMENSIONAL DATA



### CROSS SECTION



### MOUNTING HOLES



RECOMMENDED CEILING CUTOUT: 24.25" x 22.44" (61.60 cm x 56.99 cm)

RECOMMENDED CEILING CUTOUT: 48.25" x 22.44" (122 cm x 56.99 cm)

