

MIGHTY MAC™

CD SERIES with BIOS SkyBlue™



PRODUCT FEATURES:

- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » Surface corner mount with hinged door construction
- » TIG-welded housing without post-weld grinding for additional strength

SPECIFICATIONS

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

LENS: As specified – maximum thickness 0.875" – 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.

HINGE: Staked and welded external piano hinge (1/2" knuckle/ 1/8" diameter pin) standard. See options for Full Length Internal Hinge (IHF).

FASTENERS: Hardened stainless steel security screws as specified – see Ordering Information. Fully recessed.

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.

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

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

LISTINGS: Luminaire is certified to UL 1598 and UL 8750 standards by Intertek Testing Services for Damp Locations. See Ordering Information for Wet Location applications.



ORDERING INFORMATION (Ex: CD-4-2/1-67B-35K8-DTW-DV-SYM/9-1-FS)

Model	Size	Housing/Door	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
CD	4	/					SYM /		
	Nominal Size		Lamp Power			Voltage		Fastener	
	4 8" x 48"		45B 45 Watt BIOS			DV 120-277 Volts		1 Torx® T-20 Head w/ Center Pin	
			67B 67 Watt BIOS			120 120 Volts		2 Allen Head w/ Center Pin	
	Housing/Door Material		90B 90 Watt BIOS			277 277 Volts			Options
	0 14-Ga CRS (Painted White)			Lamp Color			Lens (Inner/Outer)‡		LEL Integral 10W Emergency Battery Backup (45B max, 0°C min. ambient)
	1 16-Ga CRS (Painted White)			35K8 3500K SkyBlue / 80CRI min / R9 90+			SYM .125" Diffused DR Acrylic		LELST Integral 6W Self-Testing Emergency Battery Backup (45B max, 0°C min. ambient)
	2* 18-Ga CRS (Painted White)			40K8 4000K SkyBlue / 80CRI min / R9 90+			G .125" Clear Polycarbonate		DLN LED Night Light w/Light Level Control (voltage specific selection required)
	3 14-Ga SS (Painted White)						7 .187" Clear Polycarbonate		FS Single Fuse & Holder
	4 16-Ga SS (Painted White)						8 .187" Clear Tempered Glass		IHF Full Length Internal Hinge
	6 14-Ga SS (Brushed)						9 .250" Clear Polycarbonate		KO 1/2" EMT Knockout
	7 16-Ga SS (Brushed)						A .250" Clear Tempered Glass		RGT Removable Gear Tray
				Driver Type			B .375" Clear Polycarbonate		SK Speaker Housing Extension
				DIM1 BIOS Biological Static with 0-10V Dimming to 1% with Dim-to-Dark Capabilities			C .375" Clear Tempered Glass		WL Wet Location Listed
				BIODIM1 BIOS Biological Dynamic with 0-10V Intensity Dimming to 1% and Dim-to-Dark Capabilities			J .500" Clear Polycarbonate		
				ATW BIOS Biological Tunable White with 0-10V Control of Intensity and CCT independently on 2 separate channels			P .500" Clear Tempered Glass		
				DTW BIOS Biological Tunable White with DALI Control of Intensity and CCT independently on 2 separate channels			N .750" Clear Tempered Glass		
									* n/a as Door Material
									‡ Refer to lens specifications SYM not available as Outer Lens



MILLENNIUM STRETCH™

CD SERIES with BIOS SkyBlue™

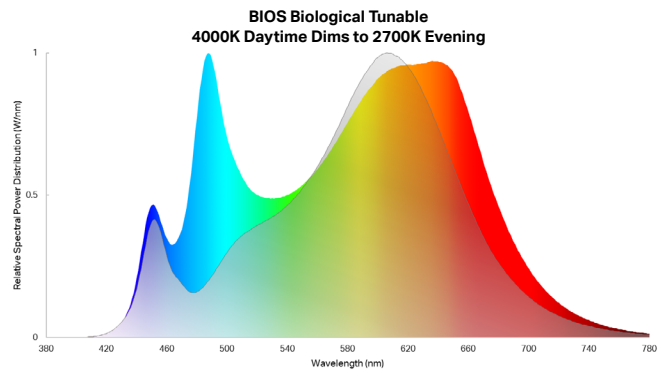
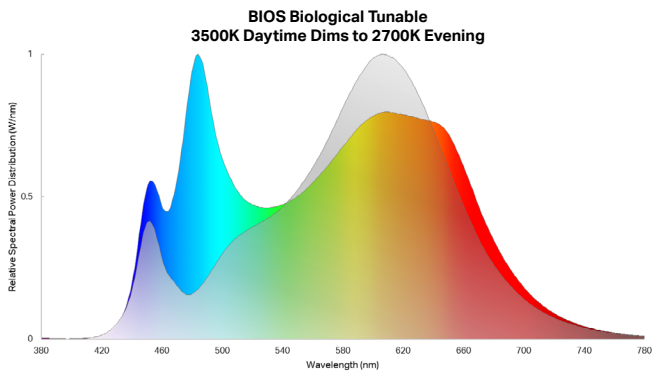
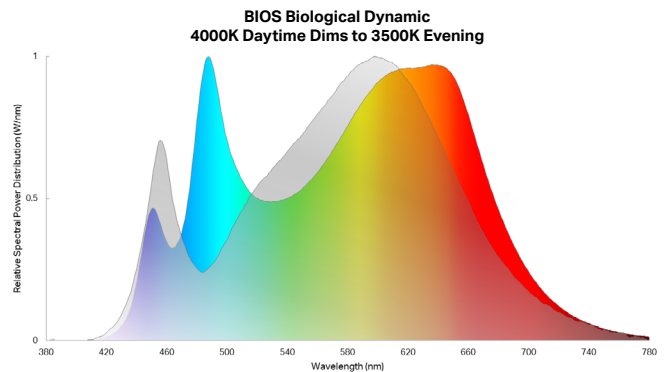
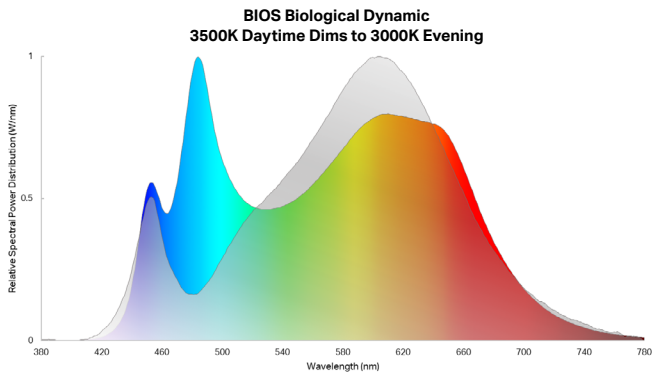
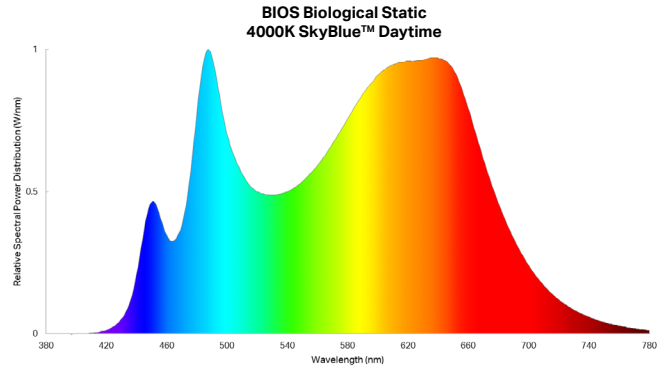
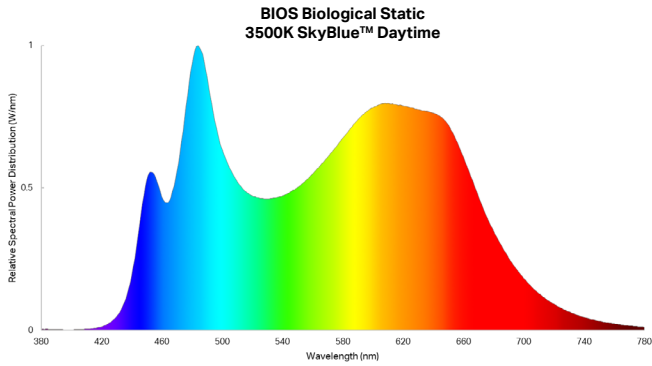
DELIVERED MELANOPIC RATIO OF 35K8 BIOS

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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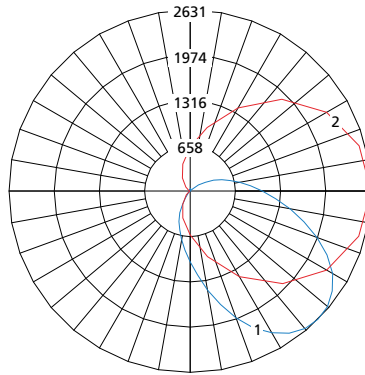
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Lamp Code	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L ₇₀ LED Life (Hrs)
	Lumen Output (lm)	Efficacy (lm/W)			
45B-35K8	3,358	88	46	100	80,000
45B-40K8	3,647	91			
67B-35K8	5,363	87	74	75	80,000
67B-40K8	5,823	90			
90B-35K8	6,622	83	97	100	80,000
90B-40K8	7,191	86			

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 for additional information.

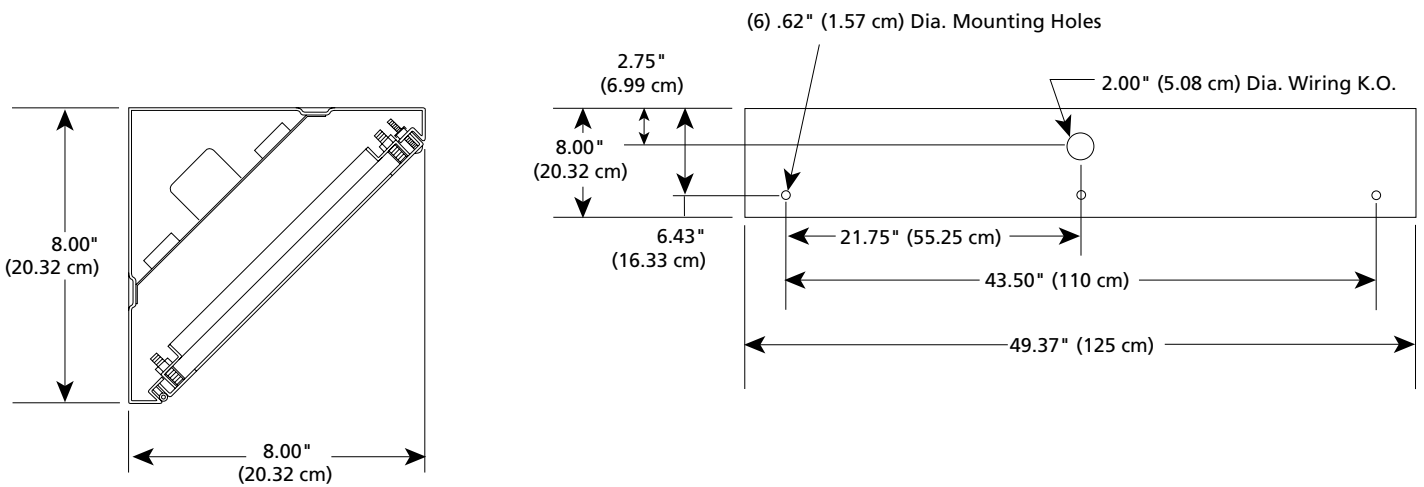
Model: CD-4-x-y-67B-35K8-DIM1-z-SYM-B-1



Maximum Candela = 2631 Located At Horizontal Angle = 0, Vertical Angle = 45

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

DIMENSIONAL DATA



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