

# MIGHTY MAC™

## CC SERIES with BIOS SkyBlue™

### PRODUCT FEATURES:

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



### 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). Clamshell housing resistant to penetration and contraband concealment.

**BASEPLATE:** Prime grade material as specified – see Ordering Information. Die-formed blade trap (1/4" minimum) prevents contraband concealment and access. Embossed standoffs prevent distortion.

**LENS:** As specified – maximum 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).

**HINGE:** 2' continuous heavy gauge internal piano hinge (1/2" knuckle/1/8" diameter pin) standard. Pin secured to knuckle. Hinge welded to housing and mounts to baseplate via keyholes. See Options for Full Length Internal Hinge (IHF).

**FASTENERS:** Hardened 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.

**INSTALLATION:** Corner mount, surface; Fixture not suitable for Surface Conduit or Continuous Row Mounting.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to [www.kenall.com](http://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: CC-4-1/1-45B-35K8-ATW-DV-SYM/9-1-DLN)

Model	Size	Housing/Base	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
<b>CC</b>	<b>4</b>	<b>/</b>					<b>SYM /</b>		
<b>Nominal Size</b>		<b>Lamp Power</b>		<b>Voltage</b>		<b>Fastener</b>			
4 9" 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			
		90B 90 Watt BIOS		277 277 Volts					
<b>Housing/Base Material</b>		<b>Lamp Color</b>		<b>Lens (Inner/Outer)‡</b>		<b>Options</b>			
0 14-Ga CRS (Painted White)		35K8 3500K SkyBlue / 80CRI min / R9 90+		SYM .125" Diffused DR Acrylic		LEL Integral 10W Emergency Battery Backup (45B max, 0°C min ambient)			
1 16-Ga CRS (Painted White)		40K8 4000K SkyBlue / 80CRI min / R9 90+		G .125" Clear Polycarbonate		LELST Integral 6W Self-Testing Emergency Battery Backup (45B max, 0°C min ambient)			
3 14-Ga SS (Painted White)				7 .187" Clear Polycarbonate		DLN LED Night Light w/Light Level Control (voltage specific selection required)			
4 16-Ga SS (Painted White)				8 .187" Clear Tempered Glass		FS Single Fuse & Holder			
6* 14-Ga SS (Brushed)				9 .250" Clear Polycarbonate		IHF Full Length Internal Hinge			
7* 16-Ga SS (Brushed)				A .250" Clear Tempered Glass		RGT Removable Gear Tray			
9 12-Ga CRS (Painted White)				B .375" Clear Polycarbonate		SK Speaker Housing Extension			
		<b>Driver Type</b>		C .375" Clear Tempered Glass		WL Wet Location Listed			
		DIM1 BIOS Biological Static with 0-10V Dimming to 1% with Dim-to-Dark Capabilities		J .500" Clear Polycarbonate					
		BIODIM1 BIOS Biological Dynamic with 0-10V Intensity Dimming to 1% and Dim-to-Dark Capabilities		P .500" Clear Tempered Glass					
		ATW BIOS Biological Tunable White with 0-10V Control of Intensity and CCT independently on 2 separate channels							
		DTW BIOS Biological Tunable White with DALI Control of Intensity and CCT independently on 2 separate channels							

\* n/a as Base Material  
‡ Refer to lens specifications  
SYM not available as Outer Lens



# MILLENNIUM STRETCH™

## CC SERIES with BIOS SkyBlue™

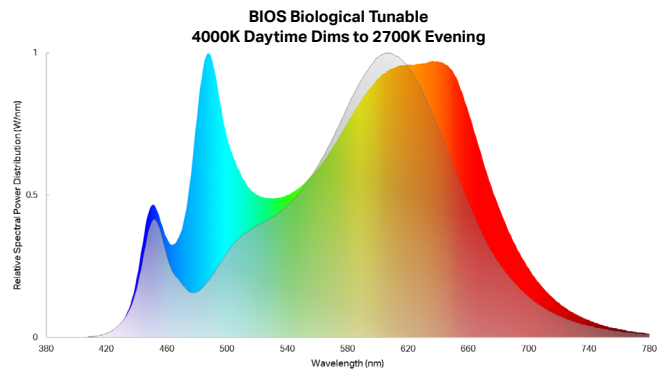
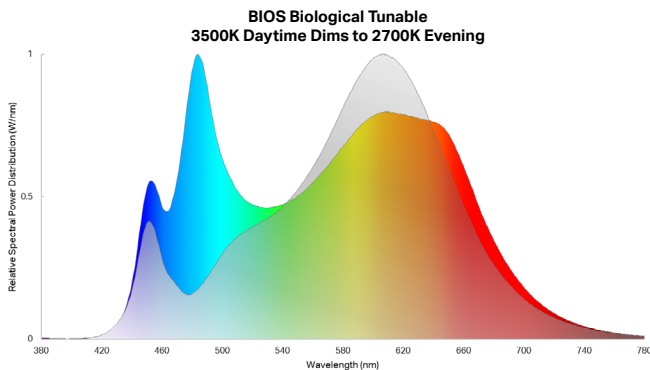
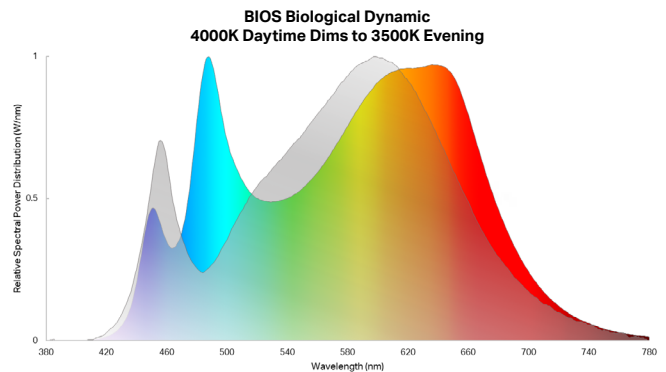
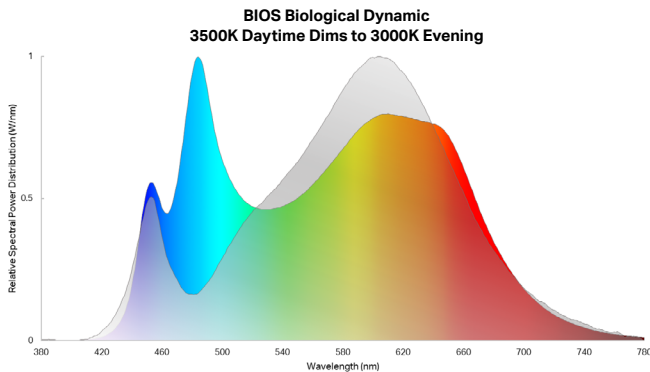
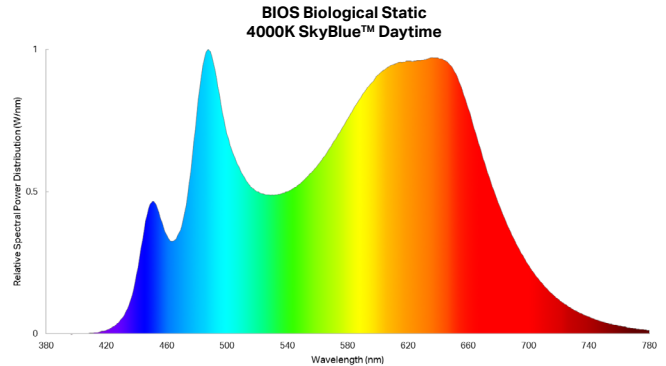
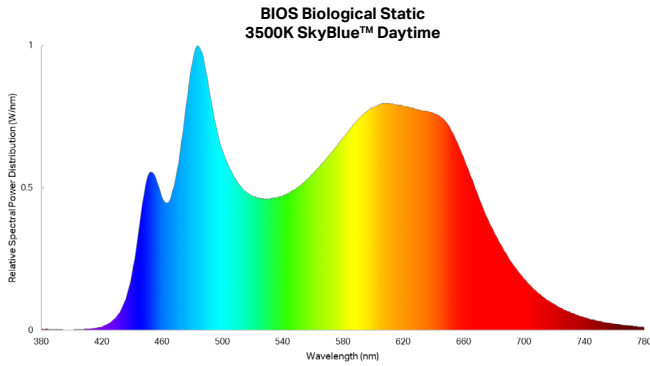
### DELIVERED MELANOPIC RATIO OF 35K8 BIOS

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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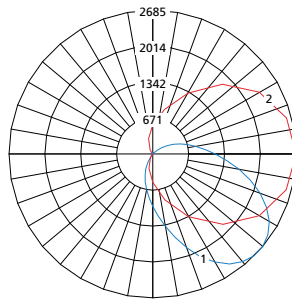
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PERFORMANCE	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	Lamp Code	Lumen Output (lm)			
45B-35K8	3,434	74	47	100	80,000
45B-40K8	3,729	80			
67B-35K8	5,483	74	74	75	80,000
67B-40K8	5,954	80			
90B-35K8	6,771	70	97	100	80,000
90B-40K8	7,353	76			

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.

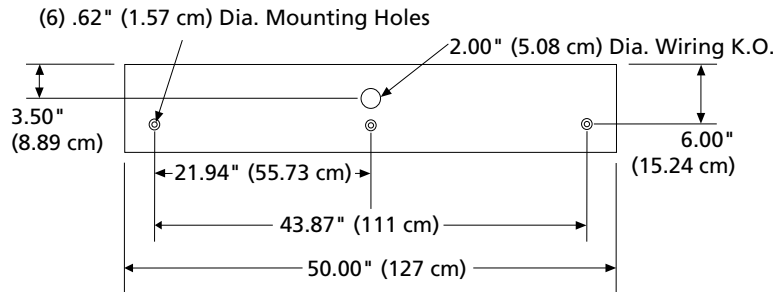
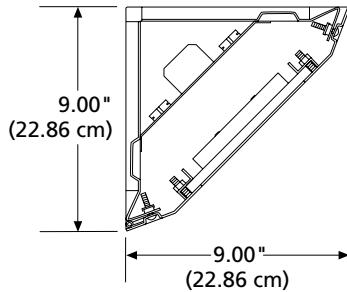
Model: CC-4-x-y-67B-35K8-DIM1-z-SYM-B-1



Maximum Candela = 2685 Located At Horizontal Angle = 0, Vertical Angle = 50

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

### DIMENSIONAL DATA



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