

MIGHTY MAC™

SDSA SERIES with BIOS SkyBlue™

PRODUCT FEATURES:

- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » Surface ceiling mount
- » TIG-welded housing without post-weld grinding for additional strength
- » Continuous lens retention with thru-studs spaced 6" apart



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).

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 2' Internal Hinge (IH) and Full Length Internal Hinge (IHF).

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).

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.

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%.

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

PATENT: US Patent No. 7,431,473.

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 Options for Wet Location rating.



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

Model	Size	Hsg./Door Material	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
SDSA	4	/					SYM /		
Nominal Size			Lamp Power			Lens (Inner/Outer)			
4 12" x 48"			45B 45 Watt BIOS 67B 67 Watt BIOS			SYM* .125" Diffused DR Acrylic G .125" Clear Polycarbonate 7 .187" Clear Polycarbonate 8 .187" Clear Tempered Glass 9 .250" Clear Polycarbonate A .250" Clear Tempered Glass B .375" Clear Polycarbonate C .375" Clear Tempered Glass J .500" Clear Polycarbonate P .500" Clear Tempered Glass			
Housing/Door Material			Lamp Color			Fasteners			
0 14-Ga CRS (Painted White) 1 16-Ga CRS (Painted White) 2* 18-Ga CRS (Painted White) 3 14-Ga SS (Painted White) 4 16-Ga SS (Painted White) 6 14-Ga SS (Brushed) 7 16-Ga SS (Brushed) 9 12-Ga CRS (Painted White)			35K8 3500K SkyBlue / 80CRI min / R9 90+ 40K8 4000K SkyBlue / 80CRI min / R9 90+			1 Torx® T-20 Head w/ Center Pin 2 Allen Head w/ Center Pin			
			Driver Type			Options			
			DIM1 BIOS Biological Static with 0-10V Dimming to 1% with Dim-to-Dark Capabilities BIODIM1 BIOS Biological Dynamic with 0-10V Intensity Dimming to 1% and Dim-to-Dark Capabilities 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			LEL Integral 10W Emergency Battery Backup (45B max, 0°C min ambient) LELST Integral 6W Self-Testing Emergency Battery Backup (45B max, 0°C min ambient) DLN LED Night Light (voltage specific selection required) FS Single Fuse & Holder IH Internal Hinge IHF Full Length Internal Hinge KO 1/2" (1.27cm) EMT Knockout WL Wet Location Listed			
			Voltage						
			DV 120-277 Volts 120 120 Volts 277 277 Volts			* n/a as Door Material + n/a as Outer Lens			



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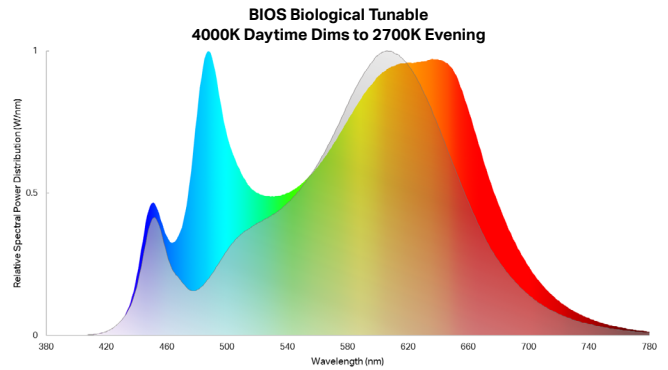
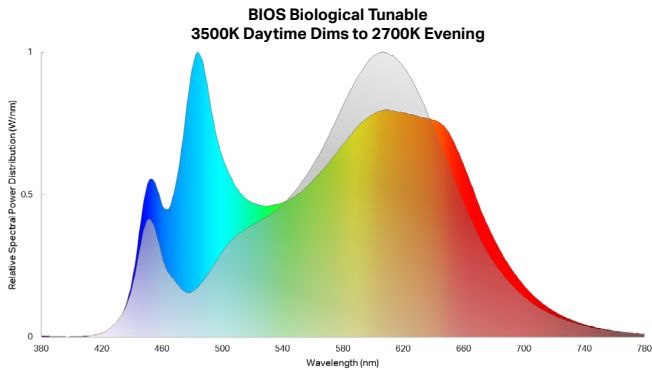
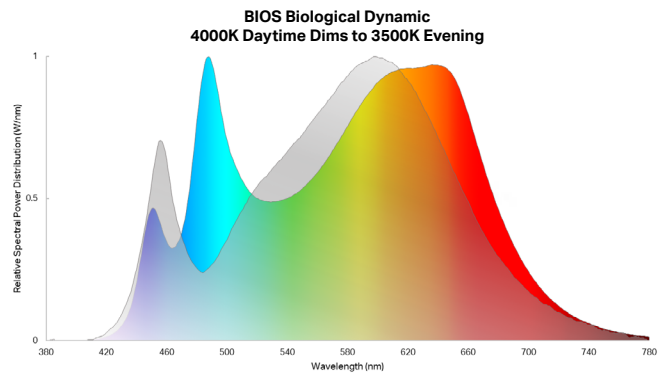
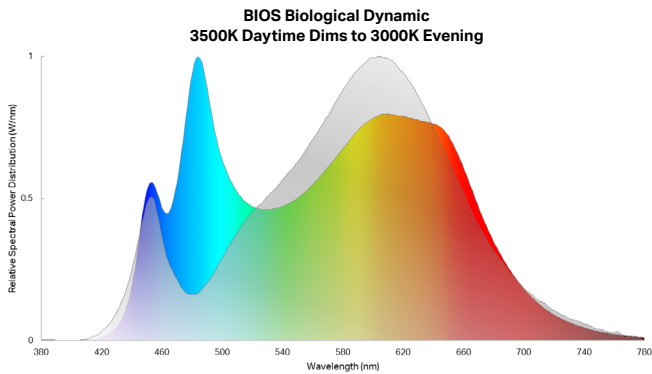
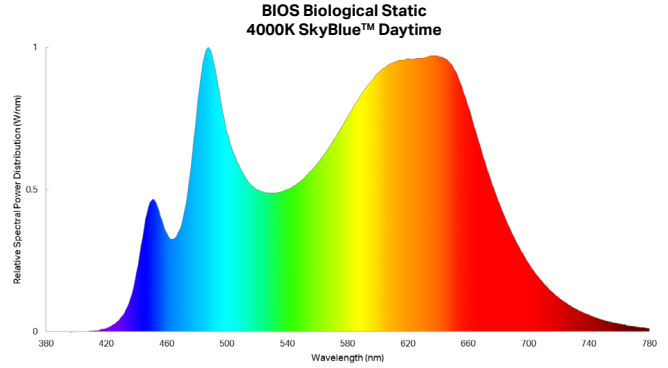
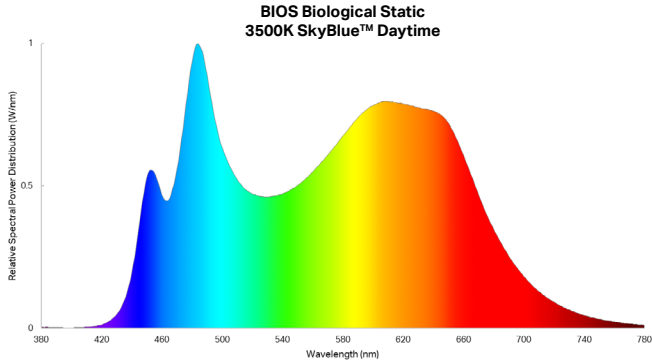
DELIVERED MELANOPIC RATIO OF 35K8 BIOS

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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This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2022 Kenall Mfg. Co.

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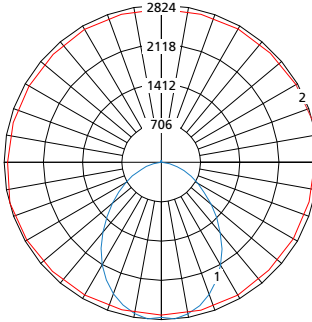
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PERFORMANCE	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L ₇₀ LED Life (Hrs)
	Lamp Code	Lumen Output (lm)			
	45B-35K8	3,587	46	100	80,000
	45B-40K8	3,895			
	67B-35K8	5,728	74	75	80,000
	67B-40K8	6,220			

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

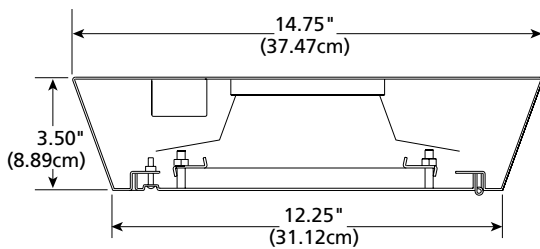


Maximum Candela = 2824 Located At Horizontal Angle = 15, Vertical Angle = 5

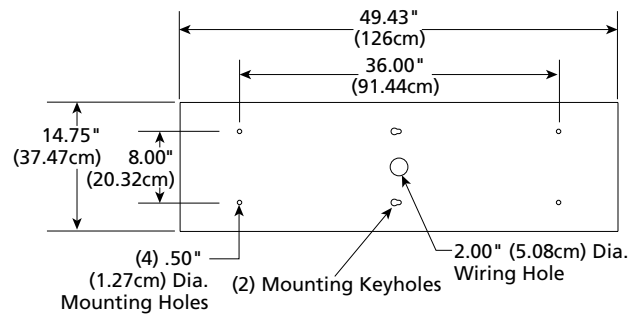
- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

CROSS SECTION



MOUNTING HOLES



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