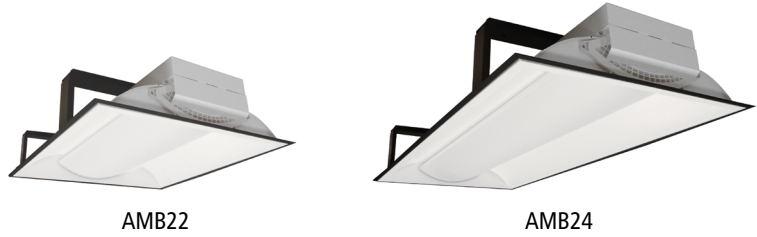


MEDMASTER™ AMBIENT

AMB SERIES with BIOS SkyBlue™

PRODUCT FEATURES:

- » Recessed mount – Flange or Grid; 2'x2', 2'x4'
- » High R9 value and High CRI provide biologically optimized LED spectrum for early detection of cyanosis.
- » Features BIOS SkyBlue Technology to benefit daytime alertness, cognition, mood and circadian rhythms
- » Tool-less access for servicing
- » Wipe-down cleanability with NSF2 rating



SPECIFICATIONS

HOUSING: 20-gauge CRS. One-piece construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

FLANGE: 18-gauge CRS, standard 4-piece construction, spot-welded to hanger bars and secured to housing. Mitered and welded corners. Black TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

REFLECTOR/LENS ASSEMBLY: 20-gauge CRS. One-piece seam-welded construction. Tool-free lamp access. White High (92%) Reflectance Low Gloss TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours.

LAMP SHIELDING: Fully gasketed, sealed luminous shield of impact resistant DR acrylic.

OPTIC: Extruded high-efficiency frosted 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: **GRID MOUNT:** Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. **FLANGE MOUNT:** Includes Drywall Frame Kit.

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 additional photometric data, please go to www.kenall.com.

LISTINGS: UL and CUL Listed for Damp Location. NSF2 Splash/Non-Food Zone.



ORDERING INFORMATION (Ex: AMB24-G-67B-35K8-ATW-DV-FA-FS)

Model	Mounting	Lamp Power	Lamp Color	Driver Type	Voltage DV	Lens Type FA	Options
Model		Lamp Power			Input Voltage		
AMB22 2'x2'		2x2			DV 120-277 Volts		
AMB24 2'x4'		45B 45 Watt BIOS				Lens Type	
						FA Frost DR Acrylic	
Mounting Options		2x4				Options	
G Grid (1")		45B 45 Watt BIOS				AMF Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame Fuse & Holder	
ST Grid (Slot T)		67B 67 Watt BIOS				FS	
F Flange		90B 90 Watt BIOS					
		Lamp Color					
		35K8 3500K SkyBlue / 80CRI min / R9 90+					
		40K8 4000K SkyBlue / 80CRI min / R9 90+					
		Driver Type					
		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					



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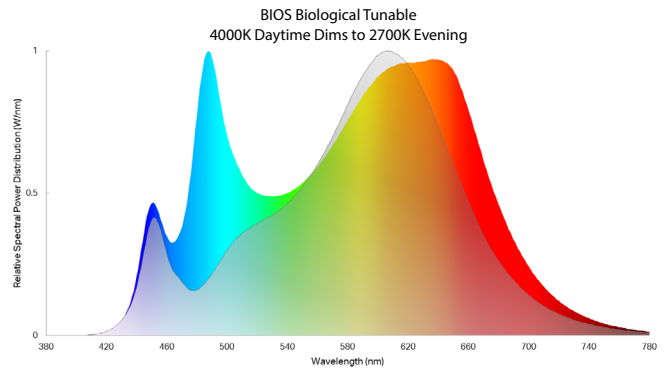
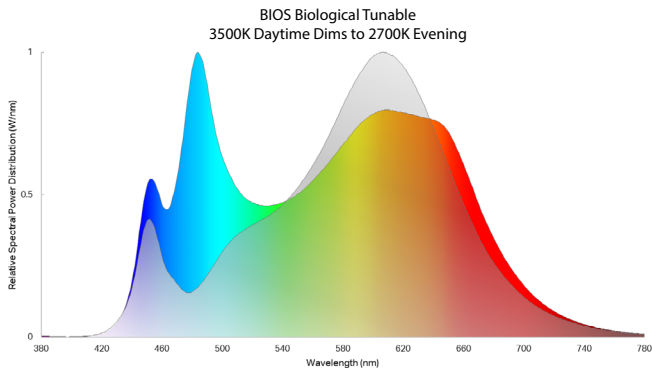
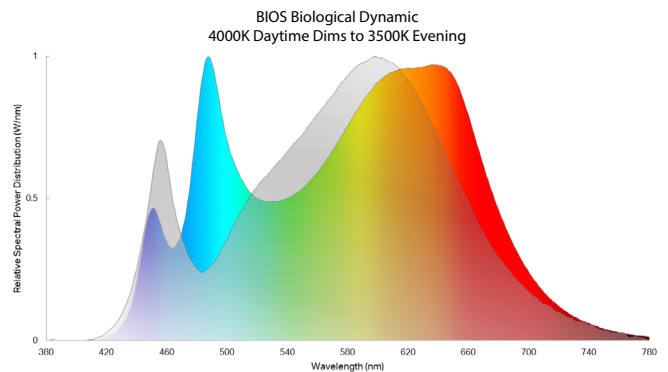
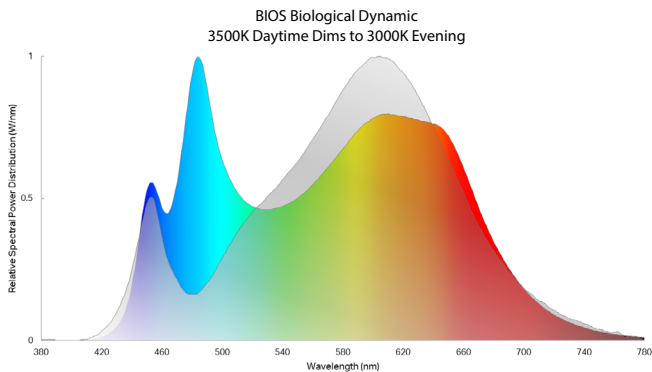
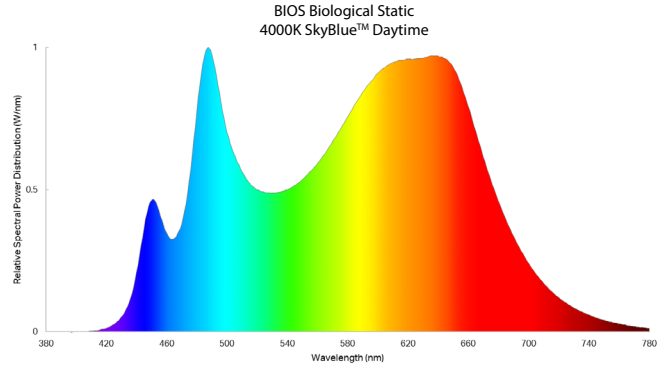
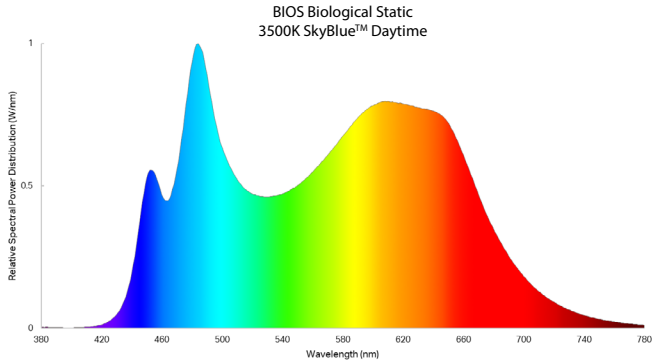
DELIVERED MELANOPIC RATIO OF 35K8 BIOS

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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AMB SERIES with BIOS SkyBlue™

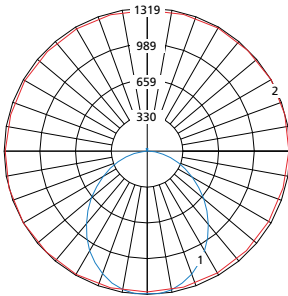
PERFORMANCE

Model	Lamp Code	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
		Lumen Output (lm)	Efficacy (lm/W)			
AMB22	45B-35K8	3,537	72	49	94	80,000
	45B-40K8	3,840	78			
AMB24	45B-35K8	4,209	84	50	94	80,000
	45B-40K8	4,570	91			
	67B-35K8	6,034	82	74	66	80,000
	67B-40K8	6,552	89			
	90B-35K8	7,675	78	99	94	80,000
	90B-40K8	8,334	84			

Information subject to change without notice. Visit www.kenall.com for ies files additional information.

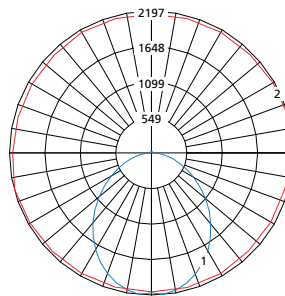
PERFORMANCE

Model: AMB22-F-45B-35K8-DIM1-DV-FA



Max Candela = 1908 Located At Horizontal Angle = 30, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

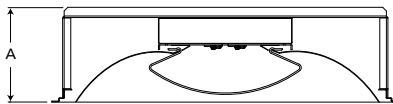
Model: AMB24-F-67B-35K8-DIM1-DV-FA



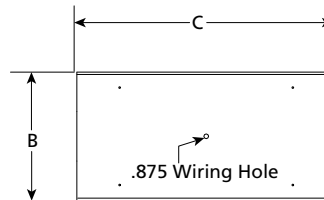
Max Candela = 2197 Located At Horizontal Angle = 15, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

SIDE VIEW



TOP VIEW



DIMENSIONAL DATA

	A	B	C
AMB22	6.45"	23.75"	23.75"
Recommended ceiling cutout for 2x2 Flange Frame Kit is 24.50" x 24.50"			
AMB24	6.45"	23.75"	47.75"
Recommended ceiling cutout for 2x4 Flange Frame Kit is 24.50" x 48.50"			

