

# MEDMASTER™ AMBIENT

## AMB SERIES – TUNABLE WHITE LED

### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

#### PRODUCT FEATURES:

- » Recessed mount – Flange or Grid; 2'×2', 2'×4'
- » High-output high-CRI LED lamp services with 2700K-6500K white tuning capability
- » 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 tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 82 CRI standard (R9 >20) with optional minimum 90 CRI (R9 >50).

**DRIVER:** 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. 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. Refer to charts on page 2 for further details.

**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](http://www.kenall.com).

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



#### ORDERING INFORMATION (Ex: AMB24-G-67T-27/65K8-ATW-DV-FA-FS)

Model	Mounting	Lamp Power	Lamp Color	Driver Type	Voltage <b>DV</b>	Lens Type <b>FA</b>	Options
<b>Model</b>		<b>Lamp Power</b>			<b>Input Voltage</b>		
<b>AMB22</b> 2'×2'		<b>2×2</b>			<b>DV</b> 120-277 Volts		
<b>AMB24</b> 2'×4'		<b>45T</b> 45W Tunable White				<b>Lens Type</b>	
						<b>FA</b> Frost DR Acrylic	
<b>Mounting Options</b>		<b>2×4</b>				<b>Options</b>	
<b>G</b> Grid (1")		<b>45T</b> 45W Tunable White				<b>AMF</b> Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame	
<b>ST</b> Grid (Slot T)		<b>67T</b> 67W Tunable White				<b>FS</b> Fuse & Holder	
<b>F</b> Flange		<b>90T</b> 90W Tunable White					
		<b>Lamp Color</b>					
		<b>27/65K8</b> 2700-6500K CCT Range (82 CRI min)					
		<b>27/65K9</b> 2700-6500K CCT Range (92 CRI min)					
		<b>Driver Type</b>					
		<b>ATW</b> Analog (0-10V) Dimming Tunable White Driver					
		<b>DTW</b> DALI Tunable White Driver					
		<b>DMX</b> DMX Tunable White Driver (Consult Factory)					



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### PERFORMANCE

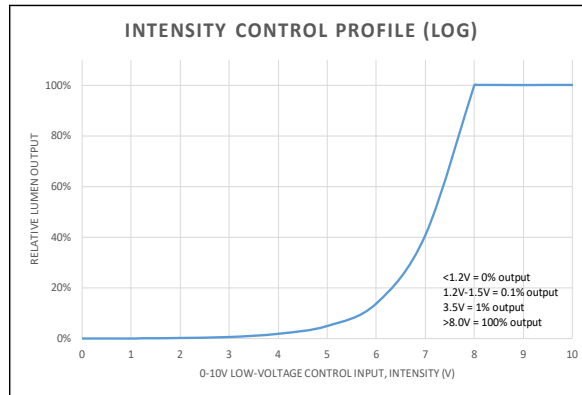
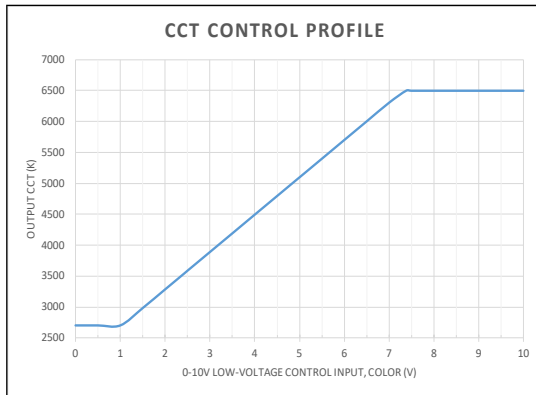
		Performance at 4000K Tuning			
Model	Lamp Type	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
AMB22	45T-27/65K8	5,130	112	46	80,000
	45T-27/65K9	4,135	90	46	80,000
AMB24	45T-27/65K8	5,853	127	46	80,000
	45T-27/65K9	4,717	103	46	80,000
	67T-27/65K8	8,756	129	68	80,000
	67T-27/65K9	7,253	107	68	80,000
	90T-27/65K8	11,373	124	92	60,000
	90T-27/65K9	9,166	100	92	60,000

Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for ies files additional information.

### PERFORMANCE SCALING, BY LAMP COLOR

CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	86	25	83	98	1.01	96	96	91	101
5700	0.99	85	23	82	98	0.99	96	96	91	100
6500	0.99	84	16	82	96	0.99	96	96	90	100

### CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE



NOTE: The provided information is the typical expected performance of a single luminaire. Additional luminaires on the same 0-10V line may result in different control profiles. Fine tuning of system performance should be completed after installation is complete. To avoid CCT shift between luminaires, care should be taken to minimize voltage drop on the CCT Control line. It is recommended to limit the load on the CCT control circuit to twenty (20) 45T or ten (10) 67T/90T luminaires or less.



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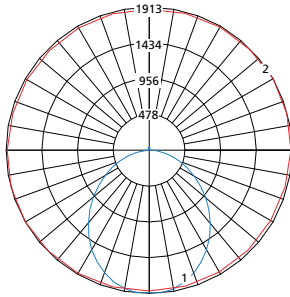
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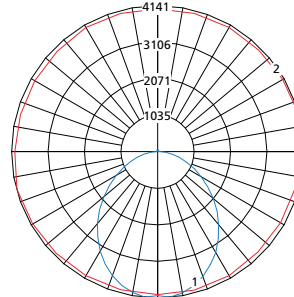
### PERFORMANCE

Model: AMB22-G-45T-27-65K8-ATW-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.)

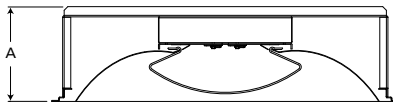
Model: AMB24-G-90T-27-65K8-ATW-FA



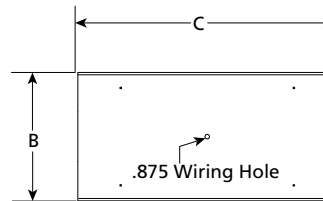
Max Candela = 4337 Located At Horizontal Angle = 15, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

### DIMENSIONAL DATA

SIDE VIEW



TOP VIEW



#### DIMENSIONAL DATA

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



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