

MEDMASTER ENVELA®

ME SERIES – TUNABLE WHITE LED

PRODUCT FEATURES:

- » Recessed Ceiling mount – 1'x4', 2'x2', 2'x4'
- » High-output high-CRI LED lamp services with 2700K-6500K white tuning capability
- » Full-sealed, NSF2 rated, impact resistant acrylic lens
- » Tool-less access for servicing



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS

HOUSING: 20-gauge CRS. One-piece seam welded construction. Black 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 housing. Mitered and welded corners.

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.

OPTICS: 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. Linear intensity and CCT adjustment profiles with 1-100% range and dim-to-dark capabilities on intensity. Optional DALI (Type 8) driver with 1-100% range and dim-to-dark intensity dimming with linear intensity and CCT adjustment profiles.

INSTALLATION: GRID MOUNT: Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. FLANGE MOUNT: Includes Drywall Frame Kit.

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.

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

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Locations and non-IC recessed installations. Certified IP64 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved.



ORDERING INFORMATION (Ex: ME24-G-45T-27/65K9-ATW-DV-FA-LVCD)

Model	Mounting	Lamp Power	Lamp Color	Driver Type	Voltage	Lens Type	Options
FA							
Series		Lamp Type			Input Voltage		
Model		1x4			DV 120-277 Volts		
ME14 1'x4'		45T	45W Tunable White		120 120 Volts		
ME22 2'x2'					277 277 Volts		
ME24 2'x4'		2x2					
		45T	45W Tunable White				
Mounting Options		2x4			Lens Type		
G Grid (1")		45T	45W Tunable White		FA Frosted DR Acrylic		
ST Grid (Slot T; 2x2 & 2x4 only)		67T	67W Tunable White				
F Flange		90T	90W Tunable White		Options		
					AMF Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame		
					FS Fuse & Holder		
					LVC* Low Voltage Controller (Click here for specifications)		
					LVCD* Low Voltage Controller with Dimming (Click here for specifications)		
		Lamp Color					
		27/65K8	2700-6500K CCT Range (82 CRI min)				
		27/65K9	2700-6500K CCT Range (92 CRI min)				
		Driver Type					
		ATW	Analog (0-10V) Dimming Tunable White Driver				
		DTW	DALI Tunable White Driver				
		DMX	DMX Tunable White Driver (Consult Factory)				

ACCESSORIES ORDERED SEPARATELY

MPWS Low Voltage Wall Switch (Click [here](#) for Specifications)

* Low Voltage Controller compatible with bed controls; CCT controlled separately; not compatible with DTW option. **LVC** wired to provide ON/OFF control. **LVCD** wired to provide ON/OFF and dimming control.



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PERFORMANCE

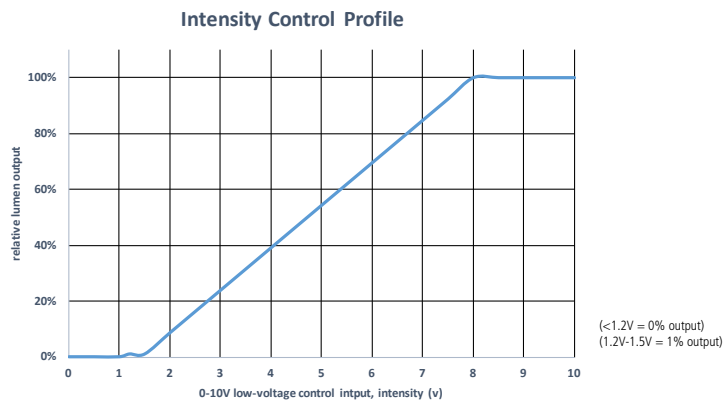
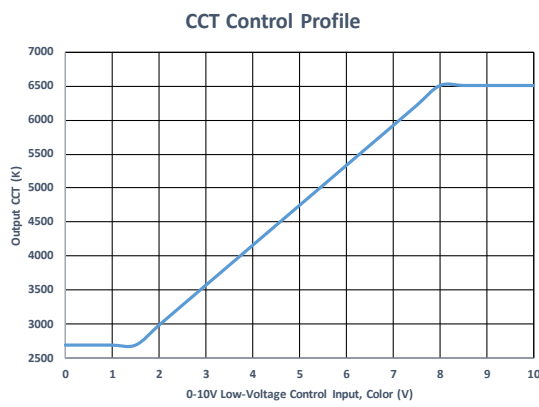
Model	Lamp Type	Performance at 4000K Tuning			
		Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
ME14	45T-27/65K8	5,605	122	46	80,000
	45T-27/65K9	4,518	98	46	80,000
ME22	45T-27/65K8	5,130	112	46	80,000
	45T-27/65K9	4,135	90	46	80,000
ME24	45T-27/65K8	5,853	127	46	80,000
	45T-27/65K9	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 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	0.97	83	10	83	97	0.98	92	57	89	98
3000	0.98	84	15	83	98	0.99	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	1.01	86	28	84	98	1.01	96	90	92	100
5000	1.01	86	25	83	98	1.03	96	96	91	101
5700	1.02	85	23	82	98	1.02	96	96	91	100
6500	1.04	84	16	82	96	1.02	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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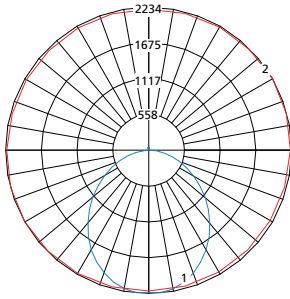
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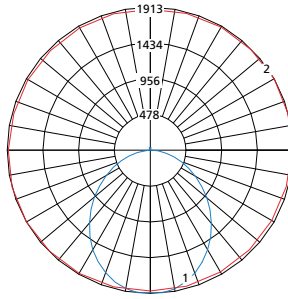
Model: ME14-G-45T-27-65K8-ATW-FA



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.)

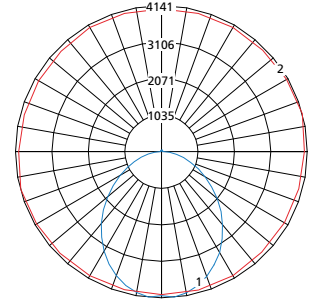
Model: ME22-G-45T-27-65K8-ATW-FA



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.)

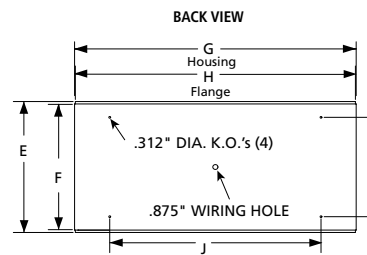
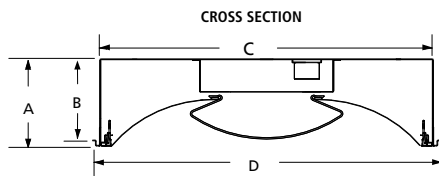
Model: ME24-G-90T-27-65K8-ATW-FA



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



DIMENSIONAL DATA (IN INCHES)

	A	B*	C	D	E	F	G	H	I	J
1x4	6.30	5.93*	10.70	11.70	10.70	11.70	47.98	47.72	8.00	36.00
Recommended Ceiling Cut-Out 12.50x48.50 (Flange fixtures)										
2x2	6.30	5.93*	22.70	23.72	23.72	22.70	23.98	23.72	18.00	18.00
Recommended Ceiling Cut-Out 24.50x24.50 (Flange fixtures)										
2x4	6.30	5.93*	22.70	23.72	23.72	22.70	47.98	47.72	18.00	36.00
Recommended Ceiling Cut-Out 24.50x48.50 (Flange fixtures)										

*ST Mounting Option Only



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