

MEDMASTER ENVELA®

MEP SERIES – TUNABLE WHITE LED

PRODUCT FEATURES:

- » Switched ambient-exam (bi-level) illumination modes
- » High-output high-CRI LED lamp services with 2700K-6500K white tuning capability
- » Recessed ceiling mount – grid or flange; 2'x4'
- » Stands up to rigorous cleaning protocols
- » 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.

HOUSING FLANGE: 18-gauge CRS, standard 4-piece construction, spot-welded to housing. Mitered and welded corners.

REFLECTOR/LENS ASSEMBLY: 20-gauge CRS with one-piece appearance. Matte white TGIC polyester powder coat finish – 5-stage pre-treatment. Salt spray test: 1,000 hours. Tool-free lamp access.

OPTIC: Fully gasketed, sealed diffuser constructed of impact resistant DR acrylic. See Ordering Information for lens options.

LED MODULE: Serviceable tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. 3-step MacAdam variation allowance on each CCT. Minimum 82 CRI standard (R9 >20) with optional minimum 92 CRI (R9 >50).

DRIVER: 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Two (2) line-voltage inputs control light output (0%/50%/100%) to create ambient-exam lighting modes. Minimum 85% electrical efficiency. Serviceable, constant-current multi-channel programmable driver. Linear CCT adjustment via 0-10V control input.

INSTALLATION: Grid Mount: Designed for 1" and Slot-T grid. Includes hardware to secure hanger wire. Flange Mount: Includes Frame Kit.

PHOTOMETRICS: Photometry tested to IESNA LM-79-08 test procedure. For additional photometric data, please go to www.kenall.com

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location and non-IC recessed installation. ETL certified IP64 per IEC 60598.NSF2 Splash/Non-Food Zone.



ORDERING INFORMATION (Ex: MEP24-G-90T-27/65K9-ATW-DV-FA-LVCD)

Model	Mounting Options	Lamp Power	Lamp Color	Driver Type	Voltage	Lens Type	Options
MEP24		90T					
Mounting Options				Input Voltage			
G	Grid (1")			DV	120-277 Volts		
ST	Grid (Slot T)			120	120 Volts		
F	Flange			277	277 Volts		
Lamp Type				Lens Type			
90T	90W Tunable White			FA	Frosted DR Acrylic		
Lamp Color				CAP			
27/65K8	2700-6500K CCT Range (82 CRI min)			Clear DR Acrylic with Perforated Insert			
27/65K9	2700-6500K CCT Range (92 CRI min)						
Driver Type				Options			
ATW	Analog (0-10V) Dimming Tunable White Driver			AMF	Antimicrobial Low-Gloss White on exposed surfaces of Reflector/Lens Frame		
DMX	DMX Tunable White Driver (Consult Factory)			FS	Fuse & Holder		
				LVC*	Low Voltage Controller (Click here for specifications)		
				LVCD*	Low Voltage Controller with Dimming (Click here for specifications)		

* Low Voltage Controller compatible with bed controls; CCT on Ambient controlled separately. **LVC** wired to provide ON/OFF control to Ambient function. **LVCD** wired to provide ON/OFF and dimming control to Ambient function.

ACCESSORIES ORDERED SEPARATELY

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



www.kenall.com | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA

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PERFORMANCE

		Performance at 4000K Tuning			
Function	Lamp Type	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
Ambient	90T-27/65K8	6,027	131	46	80,000
	90T-27/65K9	4,857	106	46	80,000
Exam	90T-27/65K8	11,790	128	92	80,000
	90T-27/65K9	9,502	103	92	80,000

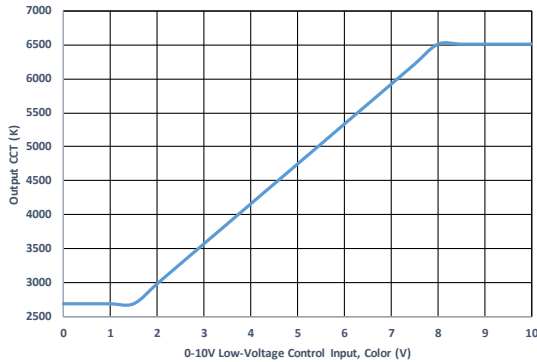
Displayed information is for FA lens type. Information subject to change without notice. Visit www.kenall.com for ies files additional information.

PERFORMANCE SCALING, BY LAMP COLOR

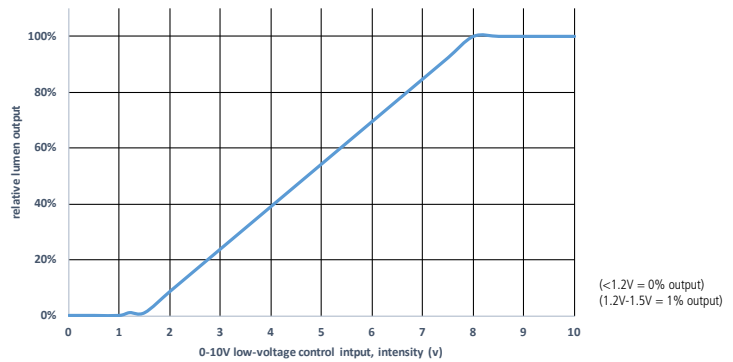
CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.97	83	10	83	97	0.98	92	57	89	98
3000	0.98	84	15	83	98	0.99	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.01	86	28	84	98	1.01	96	90	92	100
5000	1.01	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

CCT Control Profile

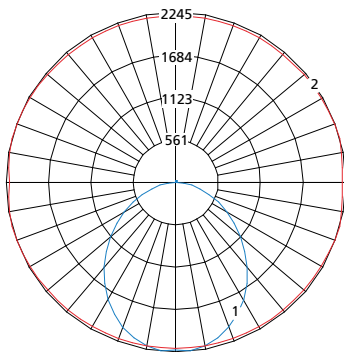


Intensity Control Profile



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.

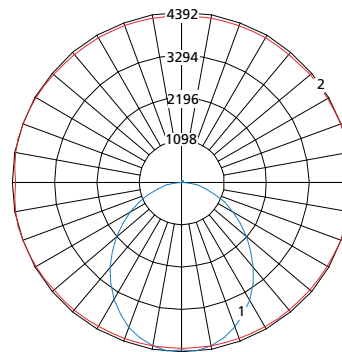
Model: MEP24-G-90T-27-65K8-ATW-FA Ambient



Maximum Candela = 2245 Located At Horizontal Angle = 15, Vertical Angle = 2.5

- 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MEP24-G-90T-27-65K8-ATW-FA Exam



Maximum Candela = 4392 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.)



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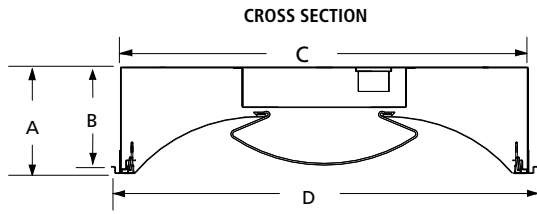
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DIMENSIONAL DATA

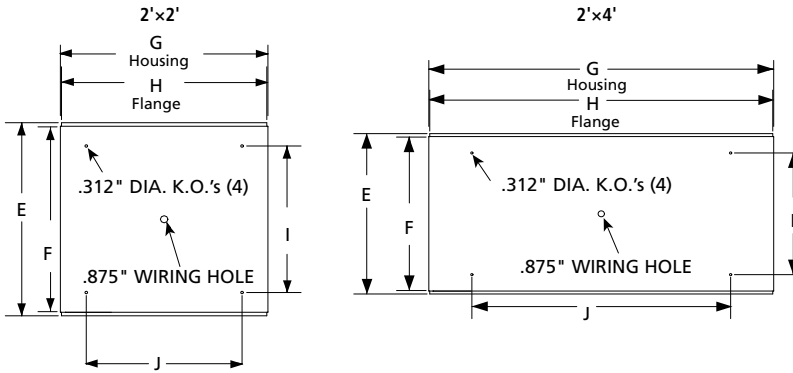


DIMENSIONAL DATA (IN INCHES)

	A	B*	C	D	E	F	G	H	I	J
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

BACK VIEW



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