

# MEDMASTER™

## MPCADE SERIES - TUNABLE WHITE LED

### PRODUCT FEATURES:

- » Ceiling mount – recessed grid, recessed flange or surface; 2'x4'
- » High-output high-CRI LED lamp services with 2700K-6500K white tuning capability (Ambient function)
- » Ambient and exam lighting with optional reading function
- » Ingress Barrier Door provides consistent surface for cleanability



### PROJECT INFORMATION

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

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

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

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

### SPECIFICATIONS

**HOUSING: FLANGE AND GRID:** 20-gauge CRS seam welded one-piece construction. **SURFACE:** 18-gauge CRS one-piece seam welded construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test 1,000 hours. Reflectance 92%. (See options for Antimicrobial Finish). Housing Flanges –18-gauge CRS.

**DOORFRAME:** Heavy duty extruded aluminum with clear satin anodized finish. Doorframe supported to housing with aircraft cables (IB-AC) to provide NSF2 listing, or an optional continuous hinged doorframe (IB-HD). Select in ordering options below. Phillips-head stainless steel fasteners secure door to housing – 8 with IB-AC and 2 with IB-HD. Extruded closed cell gasket seals doorframe to housing.

**OPTIC:** Outer lens constructed of 0.125" clear impact-resistant acrylic and sealed to doorframe with vinyl gasketing. Inner exam and ambient functions are constructed with high-efficiency frosted acrylic.

**LED MODULE: AMBIENT:** 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). **EXAM:** Serviceable mid-power LED array. See Ordering Information for CCT options. 3-step MacAdam variation allowance. 82 CRI minimum.

**DRIVER:** 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. **AMBIENT:** 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. **EXAM:** Serviceable constant-current programmable driver. Dimming protocol matches tunable white circuit selection: 0-10V dimming with 1-100% range and dim-to-dark capabilities or DALI with 1-100% range and dim-to-dark capability.

**INSTALLATION: GRID MOUNT:** Designed for 1" and 1.5" grid. (Housing includes hanging brackets to secure housing with wire to super structure). **FLANGE MOUNT:** Yoke mounting hardware & brackets included. Install Frame and Plaster Frames both positively locates yoke brackets within ceiling opening assures alignment of fixture. Install frame has no need for drywall backing. Backing is supplied on the frame brackets.

**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).

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

**LISTINGS:** UL and CUL Listed for Wet Location and UL certified IP65 per IEC 60598. Recessed configurations rated for non-IC applications. NSF2 Splash/Non-Food Zone (IB-AC only). CCEA approved for grid or flange mount.



### ORDERING INFORMATION (Ex: MPCADE24-F-45T/90L-27/65K8-40K8-ATW-DV-IB-AC)

Model	Mounting Options	Lamp Power	Ambient Color	Exam Color	Driver Type	Voltage	Doorframe	Options	Accessories
<b>MPCADE24</b>		<b>45T/90L</b>			<b>DV</b>		<b>IB-</b>		
<b>Mounting Options</b>		<b>Lamp Power (Ambient/Exam)</b>		<b>Driver Type</b>		<b>Options (continued)</b>			
<b>S</b>	Surface	<b>45T/90L</b>	45W Tunable White/90W Fixed White	<b>ATW</b>	Analog (0-10V) Dimming Tunable White Driver	<b>FS</b>	Single Fuse & Holder (1 per function)		
<b>G</b>	Grid (1" and 1.5")			<b>DTW</b>	DALI Tunable White Driver	<b>LRL</b>	Dual 3500K, 90CRI LED Reading Lights		
<b>F</b>	Flange			<b>DMX</b>	DMX Tunable White Driver (Consult Factory)	<b>TC</b>	T-Bar Clips (Grid only)		
						<b>TH</b>	1/2" Trade Size Threaded Hub		
						<b>HJ</b>	Sealed Wireway		
<b>Ambient Lamp Color</b>		<b>Input Voltage</b>		<b>Doorframe</b>		<b>Accessories</b>			
<b>27/65K8</b>	2700-6500K CCT Range (82 CRI min)	<b>DV</b>	120-277 Volts	<b>AC</b>	Ingress Barrier w/Aircraft Cables	<b>IF</b>	Install Frame (Flange only)		
				<b>HD</b>	Ingress Barrier w/Continuous Piano Hinge (not NSF2 listed)	<b>PF</b>	Plaster Frame (Flange only)		
<b>Exam Lamp Color</b>		<b>Options</b>							
<b>35K8</b>	3500K LED (82 CRI)	<b>LEL▲</b>	LED Emergency Battery Pack						
<b>40K8</b>	4000K LED (82 CRI)	<b>AMF</b>	Antimicrobial Finish on exposed surfaces						
<b>50K8</b>	5000K LED (82 CRI)	<b>NLW</b>	2700K White LED Night Light						
		<b>NLA</b>	Amber LED Night Light						
		<b>LVC*</b>	Low Voltage Controller (Click <a href="#">here</a> for specifications)						
		<b>LVCD*</b>	Low Voltage Controller with Dimming (Click <a href="#">here</a> for specifications)						

**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

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](http://www.kenall.com/patents). Content of specification sheets is subject to change; please consult [www.kenall.com](http://www.kenall.com) for current product details. ©2019 Kenall Mfg. Co.

A brand of **Legrand**

# MEDMASTER™

## MPCADE SERIES - TUNABLE WHITE LED

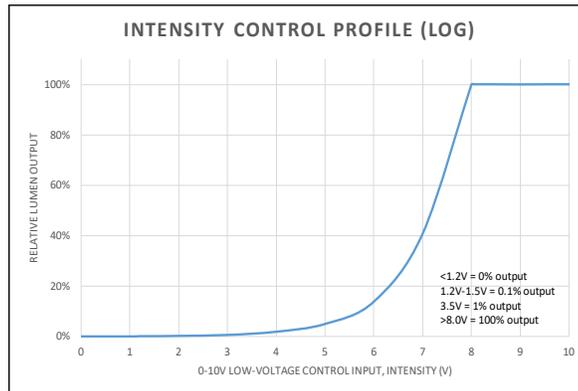
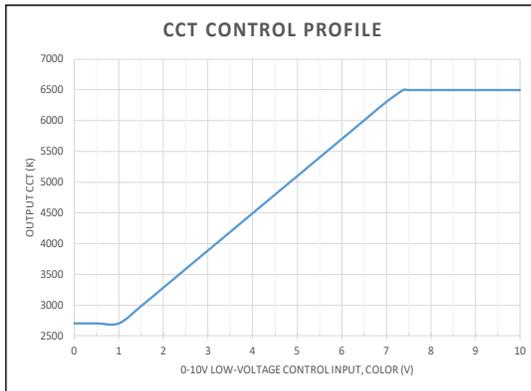
PERFORMANCE		Delivered Performance*			
Function	Lamp Type	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (Hrs)
Ambient	45T-27/65K8	4,899	106	46	80,000
	45T-27/65K9	3,948	86	46	80,000
Exam	90L35K	8,614	88	98	80,000
	90L40K	9,183	94	98	80,000
	90L50K	9,183	94	98	80,000

\*Tunable white Ambient function performance provided at 4000K  
Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for ies files additional information.

### PERFORMANCE SCALING, BY LAMP COLOR

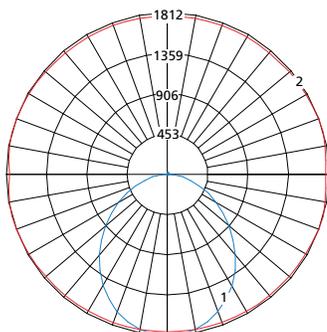
CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01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

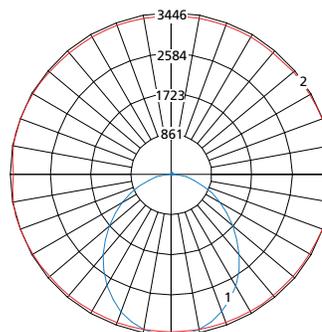
Model: MPCADE24-G-45T-90L-27-65K8-40K8-ATW-DV-IB-AC Ambient



Maximum Candela = 1812 Located At Horizontal Angle = 195, Vertical Angle = 5

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

Model: MPCADE24-G-45T-90L-27-65K8-40K8-ATW-DV-IB-AC Exam



Maximum Candela = 1812 Located At Horizontal Angle = 195, Vertical Angle = 5

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



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

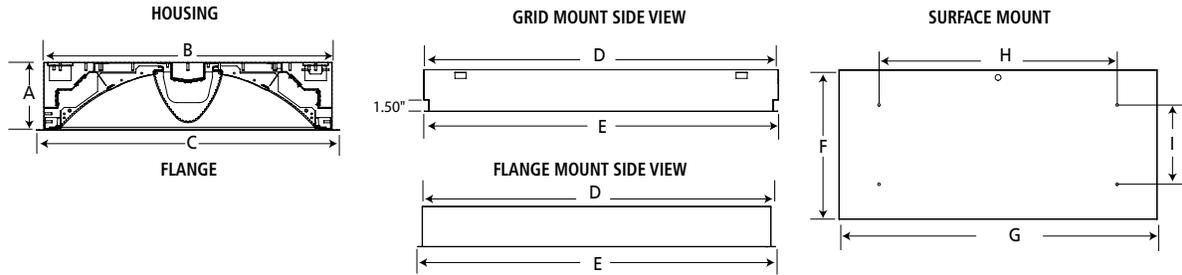
This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. It may be covered by patents found at [www.kenall.com/patents](http://www.kenall.com/patents). Content of specification sheets is subject to change; please consult [www.kenall.com](http://www.kenall.com) for current product details. ©2019 Kenall Mfg. Co.

A brand of Legrand

# MEDMASTER™

## MPCADE SERIES - TUNABLE WHITE LED

### DIMENSIONAL DATA



#### DIMENSIONAL DATA (IN INCHES)

	A	B	C	D	E	F	G	H	I
<b>Flange*</b>	5.93	22.60	23.75	48.13	49.28	---	---	---	---
<b>Grid</b>	5.93	22.60	23.75	48.00	47.75	---	---	---	---
<b>Surface</b>	5.93	---	---	---	---	22.60	48.13	30.00	12.00

\*Flange Ceiling Cutout: 22.88 x 48.38 (Add .25" to each dimension when Install Frame (IF) or Plaster Frame (PF) is specified.)

