

MEDMASTER® CEILING ROUND TROFFER

Architectural Luminaires for Healthcare Applications

MCRT SERIES – TUNABLE WHITE LED

PRODUCT FEATURES:

- » 24" Round shape provides a differentiated aesthetic to a variety of healthcare lighting applications
- » Full backlit LED array with 2700K-6500K white tuning capability
- » Standard IP64 and NSF2 rating without visible room-side fasteners
- » Extruded aluminum trim ring available in various color finishes
- » Suitable for recessed T-grid ceilings with minimal plenum ingress
- » Optional low-voltage controller (LVC) for patient room lighting control



SPECIFICATIONS

HOUSING: Fabricated 20ga CRS housing with white TGIC polyester powder-coat finish and five-stage pre-treatment. Roll-formed and butt-welded 6063-T5 aluminum extruded collar for door attachment, finished in selected color option using TGIC polyester powder with five-stage pre-treatment.

DOOR ASSEMBLY: Roll-formed and butt-welded 6063-T5 extruded aluminum with TGIC polyester powder-coat finish in selected color, with five-stage pre-treatment. Secured to housing with two internal torsion springs. Closed cell silicone gasketing seals doorframe to housing. High-efficiency diffused, impact-resistant acrylic lens is secured and sealed to doorframe.

LED MODULE: Serviceable tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 80 CRI standard (R9 >0) with optional minimum 90 CRI (R9 >50). Optional nightlight in 590 nm native amber or 2700K, 80CRI white.

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.

CONTROLS: Optional LVC and LVCD provides a low-voltage patient interface, controlling the lamp source intensity and optional night light with (LVCD) and without (LVC) dimming control. Separate 0-10V control required for CCT tuning.

INSTALLATION: Suitable for Type-IC recessed ceiling installation into 9/16" and 15/16" lay-in and tegular grid ceilings. Swing-out arms allow for securing of housing to grid structure. Ceiling tile cutout template provided. Ceiling tile by others.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For detailed photometric information, please visit www.kenall.com.

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Type-IC and Wet Location installations. IP64 rating per IEC60598. NSF2 Splash/Non-Food Zone rated. Standard CCEA compliance.



ORDERING INFORMATION (Ex: MCRT-22-G-MW-45T-27/65K9-ATW-DV-NLW-LVCD)

Model	Size	Ceiling Type	Finish	Lamp Power	Lamp Color	Driver Type	Voltage	Options
MCRT	22	G					DV	
Nominal Size			Finish - Room-Side			Driver Type		
22 2' Diameter			GW Anti-Microbial Gloss White			ATW Analog (0-10V) Dimming Tunable White Driver		
			MW Anti-Microbial Matte White			DALI DALI Tunable White Driver		
			CS Cool Satin Painted Anodized			DMX DMX Tunable White Driver (Consult Factory)		
			WS Warm Satin Painted Anodized					
Ceiling Configuration			Lamp Power			Input Voltage		
G 9/16" and 15/16" Grid			25T 25 Watt Tunable White			DV 120-277VAC, 50/60Hz		
			45T 45 Watt Tunable White					
			Lamp Color			Options		
			27/65K8 2700-6500K CCT Range (80 CRI min)			LEL Integral 10W Emergency Battery Backup		
			27/65K9 2700-6500K CCT Range (90 CRI min)			FS Fuse & Holder		
						LVC Low Voltage Controller		
						(click here for specifications, ATW only)		
						LVCD Low Voltage Controller with Dimming		
						(click here for specifications, ATW only)		
						NLW 2700K White LED Night Light		
						NLA Amber LED Night Light		

ACCESSORIES ORDERED SEPARATELY

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



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This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Act (TAA), Build America, Buy America Act (BABA), and others. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2025 Kenall Mfg. Co.

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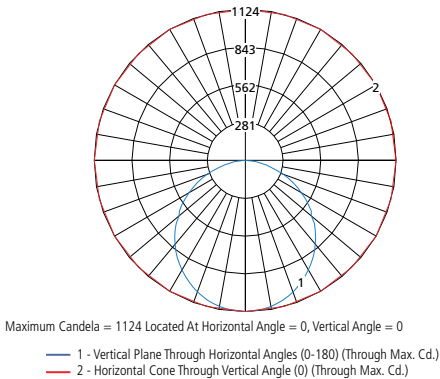
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For additional photometry, go to www.kenall.com

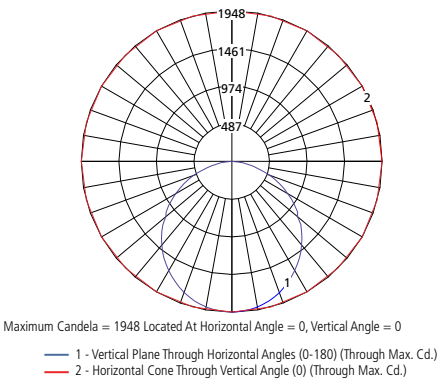
PERFORMANCE		Performance at 4000K Tuning			TM-21 Reported L70 (hrs)
Model	Lamp Code	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	
MCRT-22	25T-27/65K8	3,164	104	30	> 72,000
	25T-27/65K9	2,788	92		
	45T-27/65K8	5,481	110	50	
	45T-27/65K9	4,829	97		

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

Model: MCRT-22-G-uu-25T-27 65K8-ATW-DV-zzzz



Model: MCRT-22-G-uu-45T-27 65K8-ATW-DV-zzzz



DIMENSIONAL DATA

