

MEDMASTER® MULTI-FUNCTION ROUND TROFFER

Architectural Luminaires for Healthcare Applications

MCAERT SERIES

PRODUCT FEATURES:

- » 24" Round shape provides a differentiated aesthetic to a variety of healthcare lighting applications
- » Ambient and examination multi-function lamping for over-bed applications
- » Full backlit LED array and high diffusion lens provides uniformly-lit appearance
- » 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 dual-channel back-lit LED array. Standard 80CRI min. (R9>0) with optional 90CRI min. (R9>50). See Ordering Information for available color temperature options. Optional nightlight in 590 nm native amber or 2700K, 80CRI white.

DRIVER: 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current drivers (<20% THD, >0.90 PF). Ambient and Exam functions are separately circuited, except when ordered with the low-voltage controller options (LVC/LVCD). Full output mode is achieved by powering both lamping circuits simultaneously. Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); maximum 165 µA maximum source current. Optional eldoLED ECOdrive DALI drivers with 1-100% range.

CONTROLS: Optional LVC and LVCD provides a low-voltage patient interface, controlling the lamp source and optional night light with (LVCD) and without (LVC) dimming control.

INSTALLATION: Suitable for Type-IC recessed ceiling installation into 9/16" and 15/16" lay-in and regular 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: MCAERT-22-G-MW-35L/55L-35K8-DIM1-DV-NLW-LVCD)

Model	Size	Ceiling Type	Finish	Lamp Power	Lamp Color	Driver Type	Voltage	Options
MCAERT	22	G		35L/55L				
	Nominal Size		Finish - Room-Side		Lamp Color		Input Voltage	
	22 2' Diameter		GW Anti-Microbial Gloss White		30K8 3000K / 80 CRI min.		DV 120-277VAC, 50/60Hz	
			MW Anti-Microbial Matte White		30K9 3000K / 90 CRI min.		120 120VAC, 60Hz	
	Ceiling Configuration		CS Cool Satin Painted Anodized		35K8 3500K / 80 CRI min.		277 277VAC, 60Hz	
	G 9/16" and 15/16" Grid		WS Warm Satin Painted Anodized		35K9 3500K / 90 CRI min.		347 347VAC, 60Hz	
			Lamp Power		40K8 4000K / 80 CRI min.		Options	
			35L/55L 35 Watt Ambient / 55 Watt Exam		40K9 4000K / 90 CRI min.		LEL* Integral 10W Emergency Battery Backup (specified voltage required)	
					Driver Type		FS Fuse & Holder	
					DIM1 0-10V Dimming to 1% with Dim-to-Dark		LVC* Low Voltage Controller (click here for specifications, DIM1 only)	
					DALI* DALI Dimming to 1% without Dim-to-Dark		LVCD* Low Voltage Controller with Dimming (click here for specifications, DIM1 only)	
							NLW* 2700K White LED Night Light	
							NLA* Amber LED Night Light	

* n/a with 347V

ACCESSORIES ORDERED SEPARATELY

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



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA
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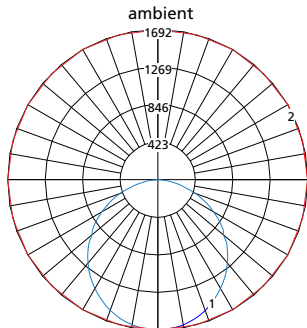
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For additional photometry, go to www.kenall.com

PERFORMANCE			Initial Delivered Lumens, By Lamp Color						Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
Model	Lamp Power	Mode	30K8	30K9	35K8	35K9	40K8	40K9			
MCAERT-22	35L/55L	Ambient	4,542	3,822	4,605	3,885	4,762	4,010	91 - 113	42	>72,000
		Exam	7,023	5,909	7,120	6,006	7,362	6,200	91 - 113	65	
		Ambient + Exam	11,385	9,579	11,542	9,736	11,935	10,050	90 - 112	106	

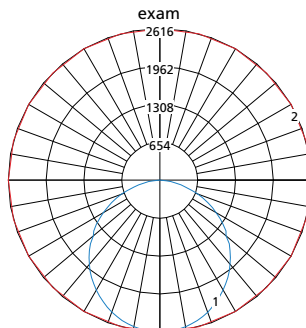
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Model: MCAERT-22-G-uu-35L55L-40K8-DIM1-yyy-zzz



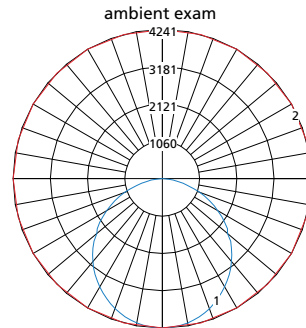
Maximum Candela = 1692 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MCAERT-22-G-uu-35L55L-40K8-DIM1-yyy-zzz



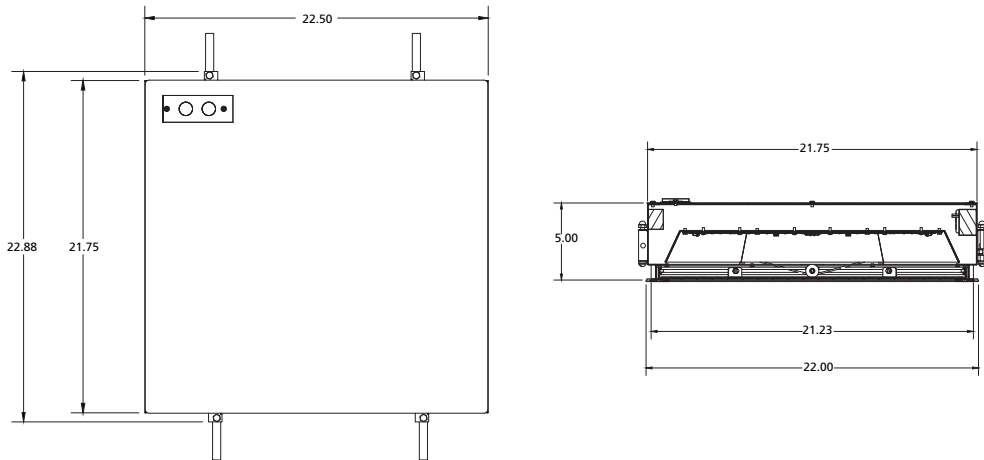
Maximum Candela = 2616 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MCAERT-22-G-uu-35L55L-40K8-DIM1-yyy-zzz



Maximum Candela = 4241 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

DIMENSIONAL DATA



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