

MEDMASTER® CEILING ROUND TROFFER

Architectural Luminaires for Behavioral Health Applications

BHRT SERIES using Indigo-Clean Technology

PRODUCT FEATURES:

- » 24" Round shape provides a differentiated aesthetic to behavioral health lighting applications
- » Provides environmental disinfection and effective, efficient lighting performance via visible LED light
- » Dual-Mode Indigo-Clean Technology is independently tested to kill 94% of SARS CoV-2 and Influenza-A*, in addition to MRSA
- » Single-Mode Indigo-Clean Technology is independently tested to kill harmful bacteria, such as Staph**, including MRSA***
- » Full backlit LED array and high diffusion lens provides uniformly-lit appearance
- » Continuous lens retention and tamper-resistant fasteners for ligature prevention
- » Standard IP64 and NSF2 rating
- » Suitable for recessed drywall/hard ceilings with minimal plenum ingress



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 flush-mounted, color-matched and tamper-resistant Torx fasteners. Closed cell silicone gasketing seals doorframe to housing. High-efficiency diffused, impact-resistant acrylic inner lens with outer .250" clear polycarbonate lens. Continuous lens retention with door frame.

LED MODULE: Serviceable mid-power white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperatures with 3-step MacAdam variation allowance. Minimum 82 CRI standard.

DRIVER: 120-277VAC and 347VAC electrical input with serviceable high power factor electronic, constant-current drivers (0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non-dim-to-dark on Dual-Mode ICT). 165µA maximum source current.

CONTROLS: **Single-Mode ICT** provides a single, white disinfection operational mode. 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. **Dual-Mode ICT** provides two operational modes based on room occupancy. White Disinfection Mode is a white LED array for ambient lighting plus a simultaneous low-power 405nm LED array for low-level, continuous and safe environmental disinfection. Indigo Disinfection Mode is a higher-level 405nm array for continuous safe environmental disinfection during periods of room vacancy. The operational mode is determined via internal low-voltage device based upon the input signal provided by an external control device/system, such as the IC150 product. Luminaire dimming is overridden in this operational state. Refer to the [Kenall Dual-Mode ICT Control Application Guide](#) for further description.

INSTALLATION: Suitable for Type-IC recessed ceiling installation into drywall ceilings up to 5/8" thick. External brackets on housing secure luminaire to ceiling structure (mounting hardware 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.

* Refer to www.indigo-clean.com for details.

** Per independent lab report #SGS-09S17036476. Contact Kenall for a copy of this report.

***Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et. al, ID Week 2016.



ORDERING INFORMATION (Ex: BHRT-22-F-MW-9-23I/55C-32K8-DIM1-DV-NLA)

Model	Size	Ceiling Type	Finish	Outer Lens Type	Lamp Power	Lamp Color	Driver Type	Voltage	Options
BHRT	22	F		9					
Nominal Size				Lamp Color		Options			
22 2' Diameter				32K8 3200K / 80 CRI min.					
				37K8 3700K / 80 CRI min.					
				43K8 4300K / 80 CRI min.					
Ceiling Configuration				Driver Type		LEL* Integral 10W Emergency Battery Backup			
F Drywall Ceiling				DIM1 0-10V Dimming to 1%		FS Fuse & Holder			
				DALI▲ DALI Dimming to 1%		LVC▲ Low Voltage Controller (click here for specifications, DIM1 only)			
Finish - Room-Side						LVCD▲ Low Voltage Controller with Dimming (click here for specifications, DIM1 only)			
GW Anti-Microbial Gloss White						NLW* 2700K White LED Night Light			
MW Anti-Microbial Matte White						NLA* Amber LED Night Light			
CS Cool Satin Painted Anodized									
WS Warm Satin Painted Anodized									
Outer Lens Type				Input Voltage					
9 .250" Clear Polycarbonate				DV 120-277VAC, 50/60Hz					
				347 347VAC, 60Hz					
Lamp Power									
55C 55 Watt Single-Mode ICT									
23I/55C 55 Watt Dual-Mode ICT									
ACCESSORIES ORDERED SEPARATELY									
MPWS Low Voltage Wall Switch (Click here for Specifications)									

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

This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Act (TAA), 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. ©2024 Kenall Mfg. Co.

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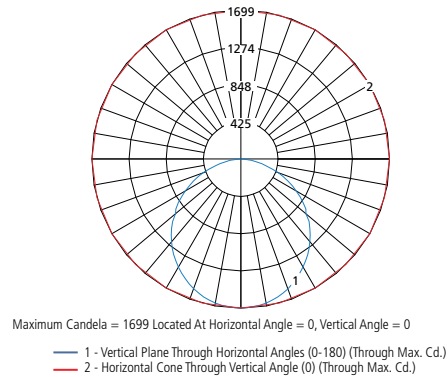
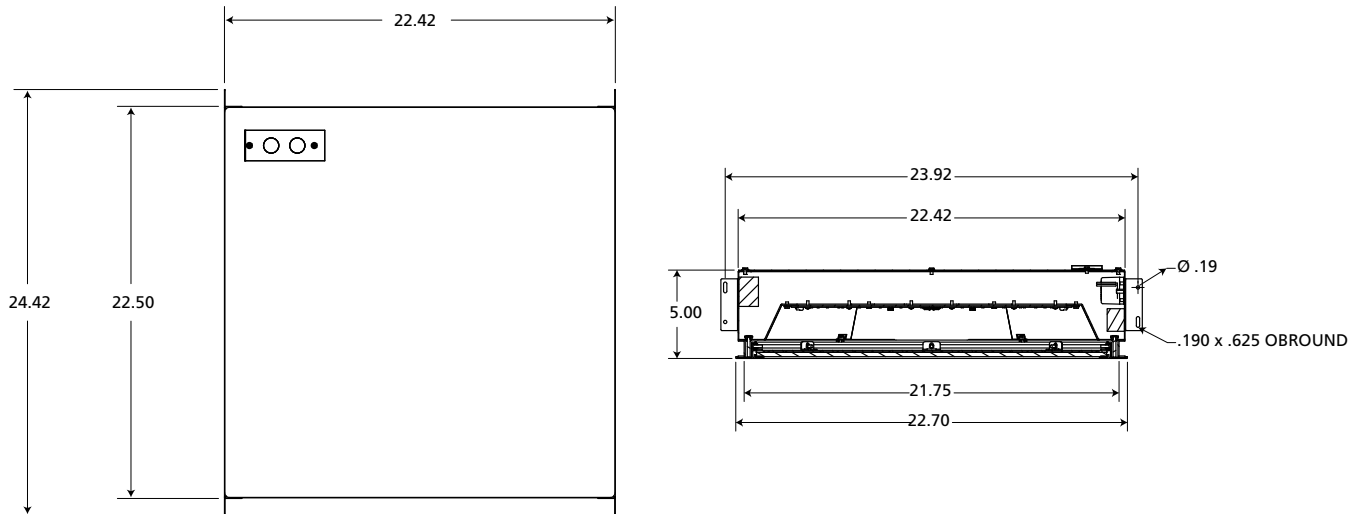
BHRT SERIES using Indigo-Clean Technology**PERFORMANCE**

Technology	Lens Type	Lamp Code	Lumen Output by Color (lm) ¹			Power Consumption ²				Estd L70 LED Life (Hrs)
			30K8	30K9	35K8	Efficacy (lm/W)	Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	9	55C	4,660	4,781	4,830	82 - 85	57	47	0	80,000
Dual-Mode ICT	9	23I/55C	4,660	4,781	4,830	82 - 85	57	47	29	80,000

¹Information subject to change without notice. Visit www.kenall.com for IES files and additional information.²Lighting Power and Energy Calculations:

- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-2021. Power used toward germicidal disinfection has been removed for this calculation.
- Use **Unoccupied** and **Occupied Power** for Energy calculations to determine the power consumed over time based on the use of the space.

Model: BHRT-22-F-tt-9-55C-37K8-DIM1-DV and
BHRT-22-F-tt-9-23I/55C-37K8-DIM1-DV

**DIMENSIONAL DATA**

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