

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 clear polycarbonate lens in various thickness options. 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-09517036476. 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-7-231/55C-32K8-DIM1-DV-NLA)

Model	Size	Ceiling Type	Finish	Outer Lens Type	Lamp Power	Lamp Color	Driver Type	Voltage	Options
-------	------	--------------	--------	-----------------	------------	------------	-------------	---------	---------

BHRT

22

F

Nominal Size

22 2' Diameter

Ceiling Configuration

F Drywall Ceiling

Finish - Room-Side

GW Anti-Microbial Gloss White

MW Anti-Microbial Matte White

CS Cool Satin Painted Anodized

WS Warm Satin Painted Anodized

Outer Lens Type

G .125" Clear Polycarbonate

7 .187" Clear Polycarbonate

9 .250" Clear Polycarbonate

Lamp Power

55C 55 Watt Single-Mode ICT

231/55C 55 Watt Dual-Mode ICT

Lamp Color

32K8 3200K / 80 CRI min.

37K8 3700K / 80 CRI min.

43K8 4300K / 80 CRI min.

Driver Type

DIM1 0-10V Dimming to 1%

DALI^ DALI Dimming to 1%

Input Voltage

DV 120-277VAC, 50/60Hz

347 347VAC, 60Hz

Options

LEL* Integral 10W Emergency Battery Backup

FS Fuse & Holder

LVC^ Low Voltage Controller (click [here](#) for specifications, DIM1 only)

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

^ n/a with dual-mode ICT or 347V input

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

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. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2023 Kenall Mfg. Co.

A brand of **legrand**

MEDMASTER® CEILING ROUND TROFFER

Architectural Luminaires for Behavioral Health Applications

BHRT SERIES using Indigo-Clean Technology

PERFORMANCE

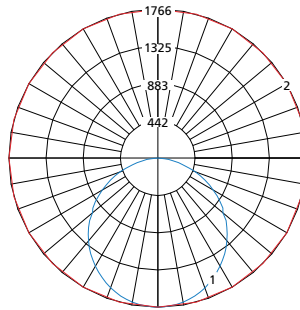
Technology	Lens Type	Lamp Code	Lumen Output by Color (lm) ¹				Power Consumption ²			Estd L70 LED Life (Hrs)
			30K8	30K9	35K8	Efficacy (lm/W)	Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	G	55C	4,822	4,948	4,998	85 - 88	57	47	0	80,000
	7		4,845	4,971	5,022	85 - 88				
	9		4,660	4,781	4,830	82 - 85				
Dual-Mode ICT	G	23I/55C	4,822	4,948	4,998	85 - 88	57	47	29	80,000
	7		4,845	4,971	5,022	85 - 88				
	9		4,660	4,781	4,830	82 - 85				

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-7-55C-37K8-DIM1-DV and
BHRT-22-F-tt-7-23I/55C-37K8-DIM1-DV



Maximum Candela = 1766 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

