

MEDMASTER® CEILING ROUND TROFFER

Architectural Luminaires for Behavioral Health Applications

BHRT SERIES – TUNABLE WHITE LED

PRODUCT FEATURES:

- » 24" Round shape provides a differentiated aesthetic to behavioral health lighting applications
- » Full backlit LED array with 2700K-6500K white tuning capability
- » 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
- » Optional night light and low-voltage controller (LVC)



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 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 590nm 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 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.



ORDERING INFORMATION (Ex: BHRT-22-F-MW-9-45T-27/65K9-ATW-DV-NLA)

Model	Size	Ceiling Type	Finish	Outer Lens Type	Lamp Power	Lamp Color	Driver Type	Voltage	Options
BHRT	22	F		9				DV	
	Nominal Size			Outer Lens Type			Driver Type		
	22	2' Diameter		9	.250" Clear Polycarbonate		ATW Analog (0-10V) Dimming Tunable White Driver DALI DALI Tunable White Driver DMX DMX Tunable White Driver (Consult Factory)		
	Ceiling Configuration			Lamp Power			Input Voltage		
	F	Drywall Ceiling		25T	25 Watt Tunable White		DV 120-277VAC, 50/60Hz		
				45T	45 Watt Tunable White		Options		
	Finish - Room-Side			Lamp Color			LEL Integral 10W Emergency Battery Backup 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		
	GW	Anti-Microbial Gloss White		27/65K8	2700-6500K CCT Range (80 CRI min)				
	MW	Anti-Microbial Matte White		27/65K9	2700-6500K CCT Range (90 CRI min)				
	CS	Cool Satin Painted Anodized							
	WS	Warm Satin Painted Anodized							

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



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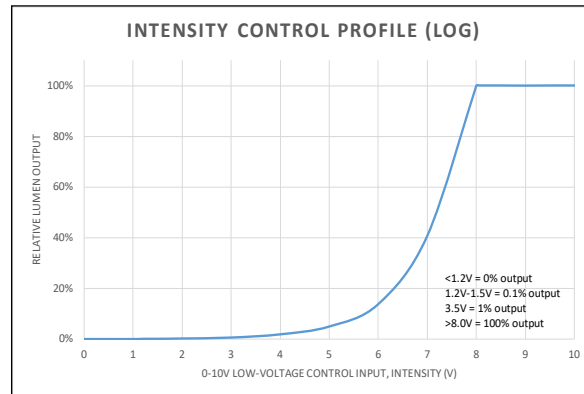
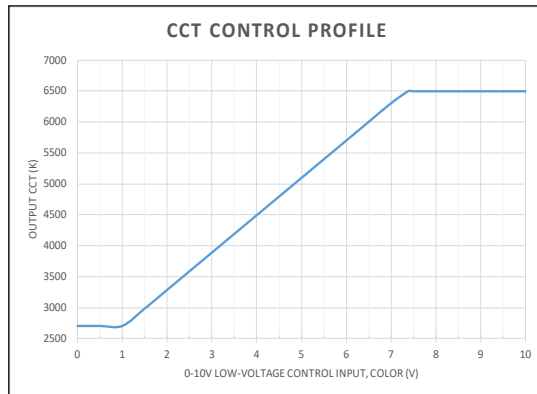
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BHRT SERIES – TUNABLE WHITE LED**PERFORMANCE**

PERFORMANCE		Performance at 4000K Tuning			
Lens Type	Lamp Code	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
9	25T-27/65K8	2,841	94	30	>72,000
	25T-27/65K9	2,503	82		
	45T-27/65K8	4,922	98	50	
	45T-27/65K9	4,337	87		

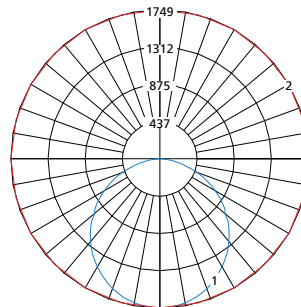
Information subject to change without notice. Visit www.kenall.com for .ies files and additional information**PERFORMANCE SCALING, BY LAMP COLOR**

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.

Model: BHRT-22-F-tt-9-45T-27/65K8-ATW-DV



Maximum Candela = 1749 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.)


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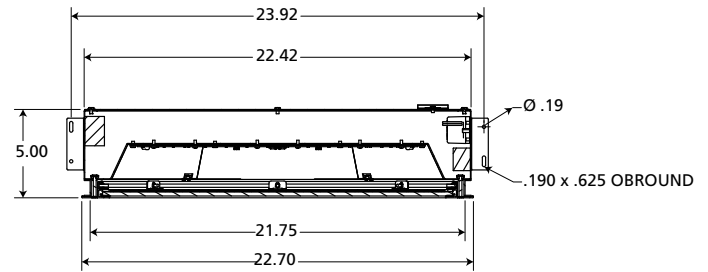
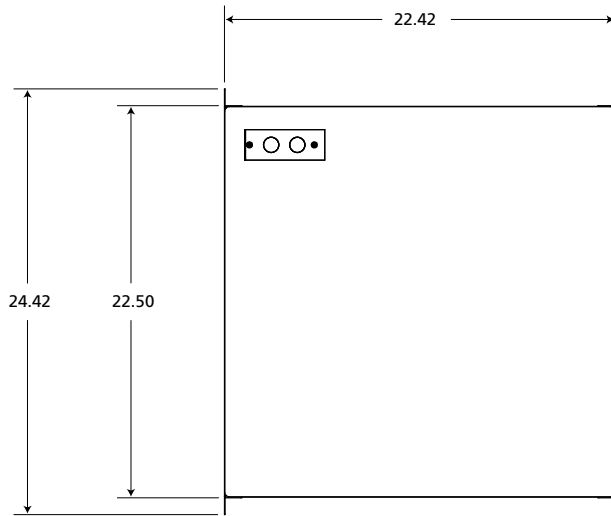
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DIMENSIONAL DATA



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