

# MEDMASTER™

## Luminaires for Behavioral Health Applications

### BHWB SERIES

#### PRODUCT FEATURES:

- » Wall-mounted luminaire with bi-directional (up/down) distribution
- » Bullnose profile with sloped sides for reduced patient injury risk
- » One-piece, TIG-welded outer housing with reinforced, continuous lens retention
- » High-output, high-CRI LED lamp sources
- » Available integral low-voltage controllers for wall- and bed-mounted patient control



#### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

#### SPECIFICATIONS

**HOUSING:** One-piece, clamshell design using die-formed prime grade material as specified – see Ordering Information. Finished with a matte white TGIC polyester powder coat finish with 5-stage pre-treatment. Continuous seam-welded and smoothed corners with no post grinding (TIG). Housing resistant to penetration and contraband concealment. One-piece concealed lens retention bracket.

**OPTICS:** High-efficiency diffused, impact-resistant acrylic inner lens with clear polycarbonate or tempered glass outer lens. See Ordering Information for selection options. Maximum 0.375" overall thickness.

**LED MODULE:** Serviceable mid-power LED array. 3500K, 4000K and 5000K color temperature options with maximum 3-step MacAdam variation allowance. Minimum 82CRI standard (R9>20) with 90CRI (R9>50) optional.

**DRIVER:** 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non dim-to-dark with 347V); maximum 165µA maximum source current. Optional eldoLED ECOdrive DALI drivers with 1-100% range and Lutron EcoSystem dimming drivers with 1-100% range and Soft On, Fade-to-Black. Two-circuit (2C) option allows for independent power and dimming to 'up' and 'down' lamping.

**CONTROLS:** Optional integral low-voltage controller with (LVCD) and without (LVC) dimming capability through a compatible wall, bed or pillow speaker controller. Refer to hyperlinks within Ordering Information for further details. See 'Accessories' for available low-voltage wall control switches.

**INSTALLATION:** Wall-mount installation via internal mounting holes using six (6) high-security bolts (provided by others). Tamper-resistant center-pin Torx or Allen-head fasteners secure housing to mounting baseplate.

**WARRANTY:** Limited five (5) year LED and driver warranty.

**LISTINGS:** Luminaire is certified to UL Standards by Intertek Testing Laboratory for Damp Location.



#### ORDERING INFORMATION (Ex: BHWB-3-0-35L/35L-35K8-DIM1-DV-SYM/9-1-FS)

Model	Length	Hsg. Material	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fastener Type	Options
<b>BHWB</b>	<b>3</b>						<b>SYM /</b>		
<b>Length</b>		<b>Driver Type</b>		<b>Lens (Inner/Outer)</b>					
<b>3</b>	3' Nominal	<b>DIM1</b>	0-10V Dimming to 1%	<b>SYM</b>	.125" Diffused DR Acrylic (n/a as outer lens)				
<b>Housing Material</b>		<b>DALI</b>	DALI Dimming to 1%	<b>G</b>	.125" Clear Polycarbonate				
<b>0</b>	14-Ga CRS in Matte White	<b>ECO1</b>	Lutron Hi-Lume 1% EcoSystem®	<b>7</b>	.187" Clear Polycarbonate				
<b>3</b>	14-Ga Type 304 Stainless Steel in Matte White	<b>Voltage</b>		<b>8</b>	.187" Clear Tempered Glass				
<b>Lamp Power</b>		<b>DV</b>	120-277VAC, 50/60Hz	<b>9</b>	.250" Clear Polycarbonate				
<b>24L/24L</b>	24 Watt LED Up / 24 Watt LED Down	<b>347</b>	347VAC, 60Hz (DIM1 only)	<b>A</b>	.250" Clear Tempered Glass				
<b>35L/35L</b>	35 Watt LED Up / 35 Watt LED Down	<b>External Fastener Type</b>							
<b>Lamp Color</b>		<b>1</b>	Torx Head with Center Pin						
<b>35K8</b>	3500K / 82 CRI min.	<b>2</b>	Allen Head with Center Pin						
<b>35K9</b>	3500K / 90 CRI min.	<b>Options</b>							
<b>40K8</b>	4000K / 82 CRI min.	<b>LELST</b>	Integral 6W Self-Testing Emergency Battery Backup (n/a 347V)						
<b>40K9</b>	4000K / 90 CRI min.	<b>FS</b>	Single Fuse & Holder						
<b>50K8</b>	5000K / 82 CRI min.	<b>NLW</b>	2700K White LED Night Light (n/a 347V)						
		<b>NLA</b>	Amber LED Night Light (n/a 347V)						
		<b>2C</b>	Two-Circuit Wiring						
		<b>LVC*</b>	Low Voltage Controller (DIM1 only; click <a href="#">here</a> for specifications)						
		<b>LVCD*</b>	Low Voltage Controller with Dimming (DIM1 only; click <a href="#">here</a> for specifications)						

\* n/a with 347V; must also specify 2C option for independent 'up/down' control

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



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Luminaires for Behavioral Health Applications

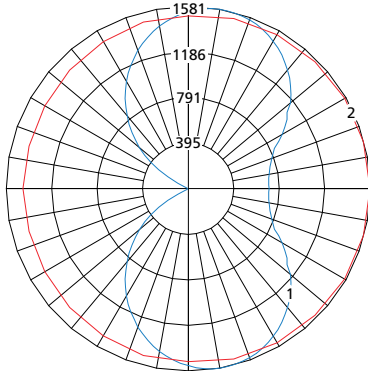
**BHWB SERIES**

**PERFORMANCE**

Lamp Power	Initial Delivered Lumens, by CCT (lm)					Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	35K8	35K9	40K8	40K9	50K8				
24/24L	6,110	5,286	6,230	5,337	6,401	92 - 112	57	94	80,000
35/35L	8,415	7,280	8,580	7,351	8,816	90 - 109	81	131	65,000

NOTE: All products tested with SYM/9 lens configuration. See "Lumen Output Scaling Factor" table for output values with alternate lens configurations. Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

Model: BHWB-3-y-35L/35L-40K8-DIM1-zzz-SYM-9



Maximum Candela = 1581 Located At Horizontal Angle = 0, Vertical Angle = 10

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

**LUMEN OUTPUT SCALING FACTORS**

Lens Configuration	Outer Lens	Scaling Factor
SYM/G	1/8" Clear PC	1.06
SYM/7	3/16" Clear PC	1.03
SYM/8	3/16" Clear TG	1.03
SYM/9	1/4" Clear PC	1.00

NOTE: Use this table to determine the lumen output and efficacy with the desired lens configuration by multiplying the provided value with the appropriate number in the 'Performance' table above.

**DIMENSIONAL DATA**

