

# MEDMASTER™

## Luminaires for Behavioral Health Applications

### BHWHS SERIES

#### PRODUCT FEATURES:

- » Wall-mounted luminaire with downward 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.

**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: BHWHS-3-0-27L-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>BHWHS</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>18L</b> 18 Watt LED				<b>347</b> 347VAC, 60Hz (DIM1 only)		<b>A</b> .250" Clear Tempered Glass		
	<b>27L</b> 27 Watt LED							<b>External Fastener Type</b>	
	<b>36L</b> 36 Watt LED							<b>1</b> Torx Head with Center Pin	
	<b>Lamp Color</b>							<b>2</b> Allen Head with Center Pin	
	<b>35K8</b> 3500K / 82 CRI min.							<b>Options</b>	
	<b>35K9</b> 3500K / 90 CRI min.							<b>LELST*</b> Integral 6W Self-Testing Emergency Battery Backup	
	<b>40K8</b> 4000K / 82 CRI min.							<b>FS</b> Single Fuse & Holder	
	<b>40K9</b> 4000K / 90 CRI min.							<b>NLW*</b> 2700K White LED Night Light	
	<b>50K8</b> 5000K / 82 CRI min.							<b>NLA*</b> Amber LED Night Light	
								<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

#### ACCESSORIES ORDERED SEPARATELY

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



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Luminaires for Behavioral Health Applications

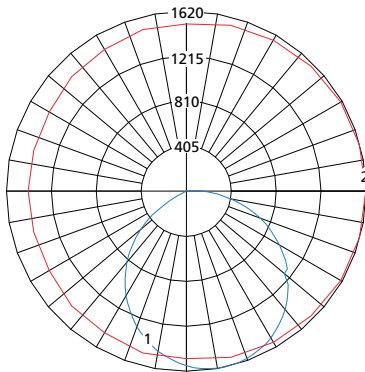
**BHWHS SERIES**

**PERFORMANCE** Initial Delivered Lumens, by CCT (lm)

Lamp Power	35K8	35K9	40K8	40K9	50K8	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
18L	2,218	1,919	2,262	1,938	2,324	86 - 104	22	70	85,000
27L	3,282	2,840	3,347	2,867	3,439	85 - 103	33	105	75,000
36L	4,128	3,571	4,209	3,606	4,325	80 - 97	44	140	60,000

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: BHWHS-3-y-36L-40K8-DIM1-zzz-SYM/9



Maximum Candela = 1620 Located At Horizontal Angle = 0, Vertical Angle = 12.5

- 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)

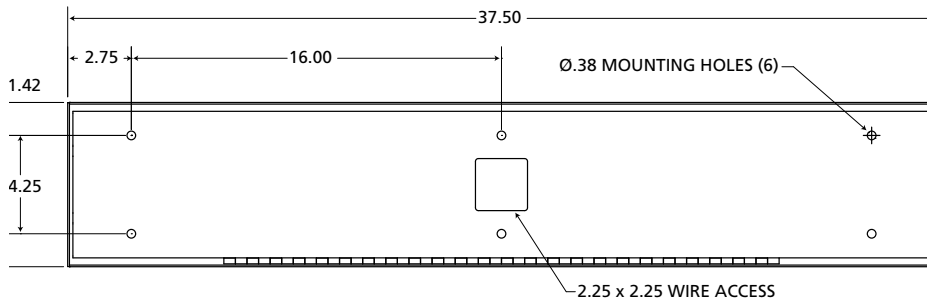
**LUMEN OUTPUT SCALING FACTORS**

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**

BACK VIEW



CROSS SECTION

