

MEDMASTER PILLOW™ BHPCK-TW

PATIENT ROOM LUMINAIRE — TUNABLE WHITE LED

Luminaires for Behavioral Health Applications



PRODUCT FEATURES

- Sealed 2'x2' or 2'x4' troffer for recessed grid and drywall ceilings
- Ambient, examination and reading multi-function lamping for over-bed applications
- Full backlit LED array with 2700K-5000K white tuning capability on all functions
- Concave thermoformed diffuser for an aesthetically differentiated appearance
- Standard IP65 and NSF2 rating with continuous lens retention and tamper-resistant fasteners for ligature prevention
- Optional night light and low voltage (LV) controller

SPECIFICATIONS

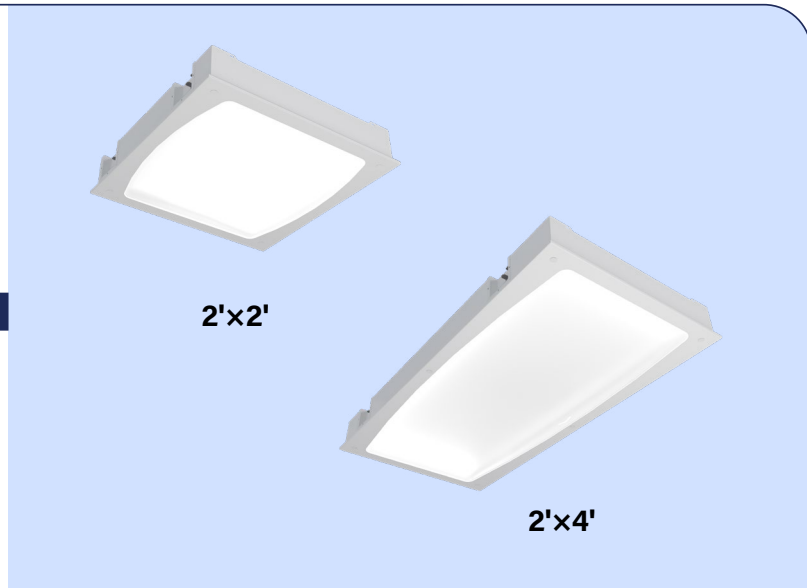
HOUSING: Fabricated 18ga cold rolled steel. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

DOOR ASSEMBLY: One-piece fabricated 16ga CRS doorframe with TGIC polyester powder-coat finish with five-stage pre-treatment. Curved-sided aperture. Doorframe secured to housing with flush mounted, color-matched tamper-resistant Torx fasteners or flush head Torx fasteners with retractable, spring-loaded recess for tool insertion. Closed-cell gasketing seals doorframe to housing. Continuous outer lens retention with doorframe.

OPTICS: Vacuum-formed, impact-resistant and high-efficiency diffused polycarbonate lens.

LED MODULE: Serviceable multi-channel back-lit array with tunable-white, mid-power LEDs. 2700K through 5000K CCT adjustment range with a two-point path. Minimum 90 CRI standard (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. Ambient, Reading and Exam functions are separately circuited, except when ordered with the low-voltage controller option (LVCD). Full output mode is achieved by powering all lamping circuits simultaneously. 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 LVCD provides a low-voltage patient interface, controlling the lamp source and optional night light with dimming control. CCT control with analog (0-10V) control types, whether with or without the LVCD, is a separate control line that must be connected to a device supporting 0-10V adjustment. See chart on Page 2 for further details.

INSTALLATION: Suitable for recessed ceiling installation into drywall (flange) and 9/16" and 15/16" lay-in grid ceilings. Flange installation utilizes included adjustable swing-out mounting brackets. Wire access panel on rear of housing allows electrical connections without door removal; includes one 7/8" hole and one 7/8" knockout. Suitable for -20°C to 40°C ambient environments, unless otherwise noted.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-24 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for recessed ceiling insulation contact (IC-rated) and Indoor Wet Location installations. IP65 rating per IEC60598. NSF2 Splash/Non-Food Zone rated. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08. Standard CCEA compliance. Build America, Buy America Act compliant.

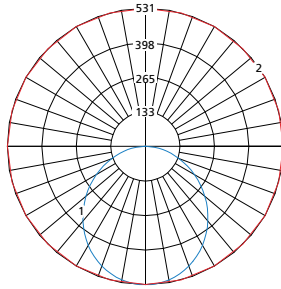
ORDERING INFORMATION (EX: BHPCK-24-D-MW-32LMT/28LMT/140LMT-27/50K9-ATW-DV-FF-LEL)

Options
LEL* Integral 10W Emergency Battery Backup (n/a with 16LMT/50LMT)
FS Fuse & Holder
NLW* 2700K White LED Night Light
NLA* Amber LED Night Light

▲ n/a with 347V
 ▼ This selection also determines the desired configuration of operational modes. Output referenced at 4000K selection.
 * n/a with DTW Driver Type
 ‡ Must be ordered in conjunction with corresponding Controller. All configurations including night light must be ordered in conjunction with NLW or NLA option.

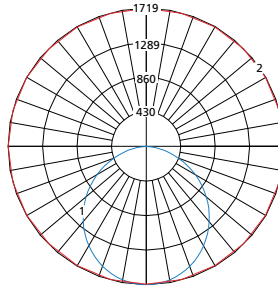
ACCESSORIES ORDERED SEPARATELY
MPWS Low Voltage Wall Switch (Click [here](#) for Specifications)

Model: BHPCK-22-D-MW-16LMT-27_50K9-ATW-DV Ambient Mode



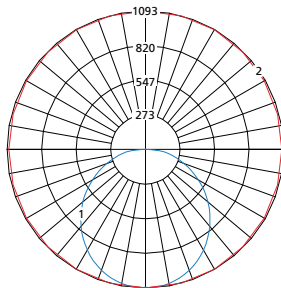
Max Candela = 531 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: BHPCK-22-D-MW-16LMT-27_50K9-ATW-DV All On



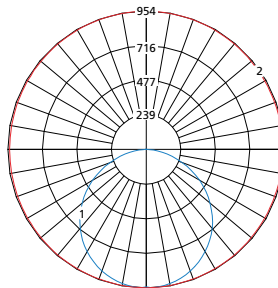
Max Candela = 1719 Located At Horizontal Angle = 0, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: BHPCK-24-D-MW-32LMT-27_50K9-ATW-DV Ambient Mode



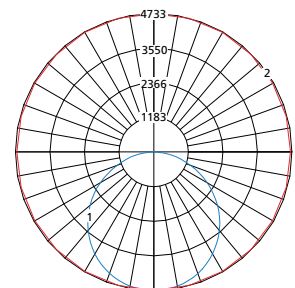
Max Candela = 1093 Located At Horizontal Angle = 90, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: BHPCK-24-D-MW-28LMT-27_50K9-ATW-DV Reading Mode



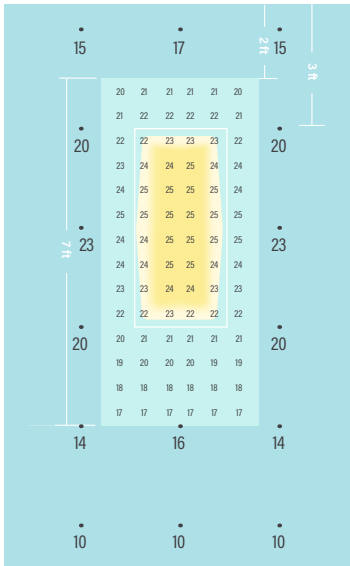
Max Candela = 954 Located At Horizontal Angle = 75, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: BHPCK-24-D-MW-32LMT_28LMT_140LMT-27_50K9-ATW-DV All on

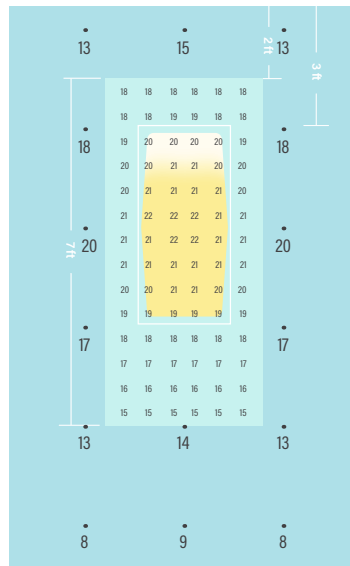


Max Candela = 4733 Located At Horizontal Angle = 90, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

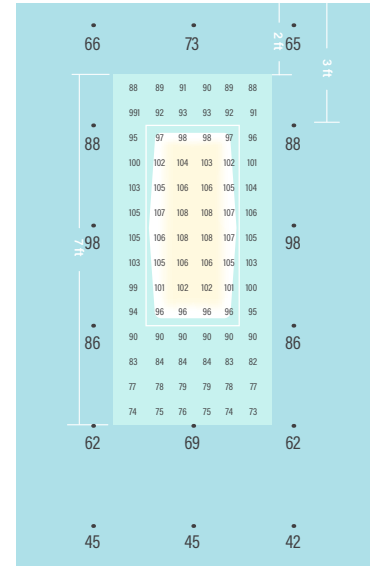
Patient Room Example - BHPCK-24 - Ambient - Tunable



Patient Room Example - BHPCK-24 - Reading - Tunable



Patient Room Example - BHPCK-24 - Exam- Tunable



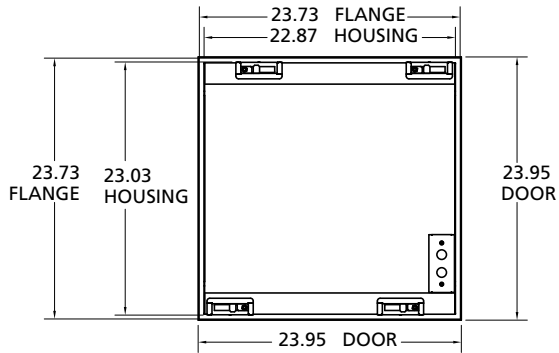
The above illustrations depict calculations performed at 9'-0" ceiling height, center of luminaire 3'-0" from head of bed, tuned to 4000K, and meet recommended industry standards for illuminance and uniformity.

4000K, 90CRI

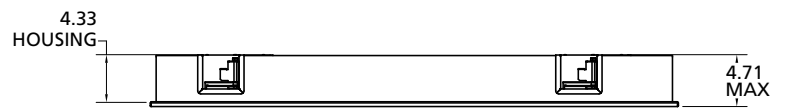
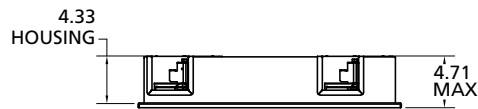
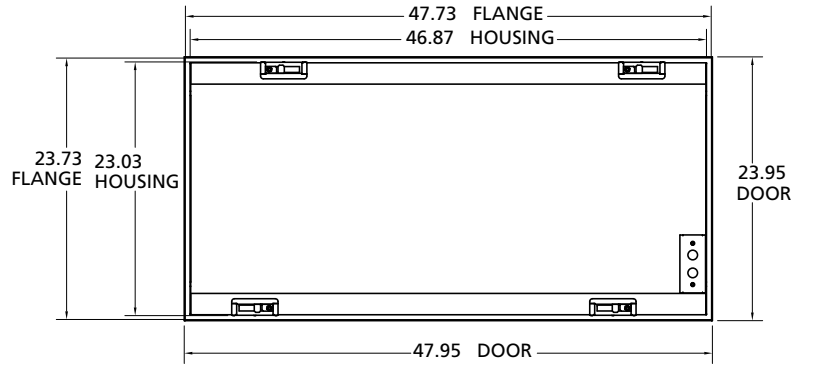
	Ambient		Reading		Exam	
	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min
Bed	22.0	1.3	19.0	1.3	95.0	1.3
Workplane	15.0	1.9	13.0	1.9	64.0	1.9

DIMENSIONAL DATA

2'x2'



2'x4'



Flange Mounting Recommended Ceiling Cut-Out

BHPCK-22	23.25" x 23.25"
BHPCK-24	23.25" x 47.25"