

MEDMASTER PILLOW™ BHPCK

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 and 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 control via low-voltage controller (LVC)

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 LED array provides ambient, examination and reading functionality. Standard 90CRI min. (R9>50). See Ordering Information for available color temperature options. Optional nightlight in 590nm native amber or 2700K, 80CRI white.

DRIVER: 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current drivers (<20% THD, >0.90 PF). Ambient, Reading and Exam functions are separately circuited, except when ordered with the low-voltage controller options (LVC/LVCD). Full output mode is achieved by powering all lamping circuits simultaneously. Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities 0.8mA maximum source current. Optional eldoLED ECodrive DALI drivers with 1-100% range.

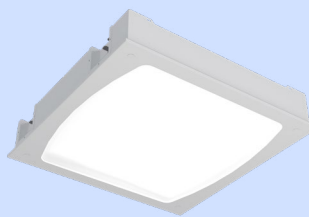
CONTROLS: Optional LVC and LVCD provides a low-voltage patient interface, controlling the lamp source and optional night light with (LVCD) and without (LVC) dimming control.

INSTALLATION: Suitable for recessed ceiling installation into drywall (flange) or 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.

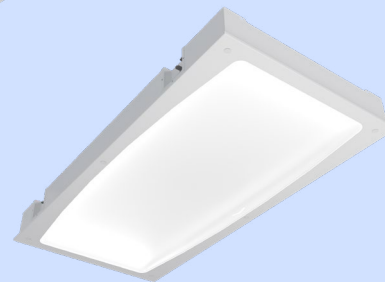
PHOTOMETRICS: Photometry tested to the IESNA LM-79-24 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

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.



2'x2'



2'x4'

ORDERING INFORMATION (EX: BHPCK-24-D-MW-32LM/28LM/140LM-35K9-DIM1-DV-TX-LEL)

Model	Size	Ceiling Type	Finish	Lumen Output (per Mode)	Lamp Color	Driver Type	Voltage	Door Fastener	LV Controller	LV Configuration	Options		
BHPCK		D	MW										
Nominal Size					Input Voltage					Options			
22	2' x 2' Nominal				DV	120-277VAC, 50/60Hz				LEL*	Integral 10W Emergency Battery Backup (n/a with 16LM/50LM)		
24	2' x 4' Nominal				347	347VAC, 60Hz				FS	Fuse & Holder		
Ceiling Configuration					Door Fastener					NLW*	2700K White LED Night Light		
D	9/16" and 15/16" Lay-In Grid or Drywall Ceiling				TX	Torx® T40 with Center Pin				NLA*	Amber LED Night Light		
Finish - Room-Side					FF	Flush Countersunk Fastener with Hidden Torx®T40							
MW	Anti-Microbial Matte White				Optional Low Voltage (LV) Controller					▼ This selection also determines the desired configuration of operational modes. Output referenced at 40K9 selection. * n/a with 347V ‡ Must be ordered in conjunction with corresponding Controller. All configurations including night light must be ordered in conjunction with NLW or NLA option.			
Lumen Output, by Mode†					Optional LV Controller Configuration‡								
2'x2'					LVC								
16LM	1,625 lm Ambient				LVC*	Low Voltage Controller (n/a with DALI)							
16LM/50LM	1,625 lm Ambient / 5,000 lm Reading				LVCD*	Low Voltage Controller with Dimming (n/a with DALI)							
2'x4'					Optional LV Controller Configuration‡								
32LM	3,250 lm Ambient				LVC								
32LM/140LM	3,250 lm Ambient / 14,000 lm Exam				F-10563	Ambient, Night Light (BHPCK22 only)							
32LM/28LM/140LM	3,250 lm Ambient / 2,800 lm Reading / 14,000 lm Exam				F-10565	Ambient, Reading, Night Light (BHPCK22 only)							
					F-10571	Ambient, Night Light (BHPCK24 only)							
					F-10574	Ambient, Exam, Reading (BHPCK24 only)							
					(click here for additional configurations & specifications)								
Lamp Color					LVCD								
30K9	3000K / 90 CRI min.				F-10568	Ambient, Reading (BHPCK22 only)							
35K9	3500K / 90 CRI min.				F-10569	Ambient, Reading, Night Light (BHPCK22 only)							
40K9	4000K / 90 CRI min.				F-10577	Ambient, Night Light (BHPCK24 only)							
					F-10580	Ambient, Exam, Reading (BHPCK24 only)							
					(click here for additional configurations & specifications)								
Driver Type					ACCESSORIES ORDERED SEPARATELY					MPWS Low Voltage Wall Switch (Click here for Specifications)			
DIM1	0-10V Dimming to 1% with Dim-to-Dark												
DALI*	DALI Dimming to 1% without Dim-to-Dark												

PERFORMANCE

Model	Operational Mode [^]	Lumen Output, by Mode, per Unit	Initial Delivered Lumens, by Lamp Color (lm)			Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
			30K9	35K9	40K9			
BHPCK-22	Ambient	16LM	1,522	1,543	1,564	94 - 96	16	>102,000
	Reading / All ON	50LM	4,944	5,011	5,080	116 - 119	43	
BHPCK-24	Ambient	32LM	3,165	3,207	3,252	112 - 115	28	>102,000
	Reading	28LM	2,752	2,789	2,828	118 - 121	23	
	Exam / All ON	140LM	13,636	13,820	14,010	120 - 123	114	

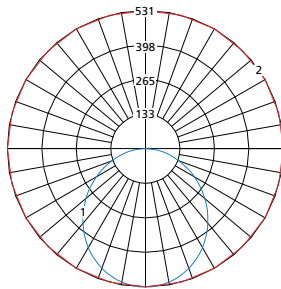
Model	Operational Mode*	Initial Delivered Lumens (lm)		Input Power (W)	TM-21 Reported L70 (hrs)
		NLW	NLA		
BHPCK-22	Nightlight (optional)	50	43	1.0	>60,000
BHPCK-24	Nightlight (optional)	60	52		

NOTE: Nominal Lumen Output values based on 40K9 lamp color. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

[^]Lumen output listed for the BHPCK-22 Reading is the cumulative output of both the Ambient and Reading circuits ON at full output. Lumen output listed for the BHPCK-24 Exam is the cumulative output of the Ambient, Reading and Exam circuits ON at full output. All other Operational Modes are individual circuits.

*Nightlight function is an optional construction feature when ordered with option code NLW (2700K white) or NLA (amber).

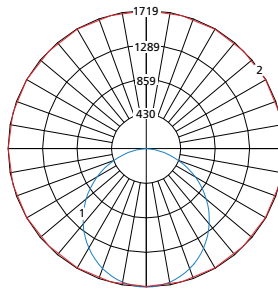
Model: BHPCK-22-D-MW-16LM-40K9-DIM1-DV-y-z Ambient Mode



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.)

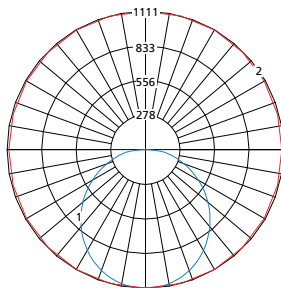
Model: BHPCK-22-D-MW-50LM-40K9-DIM1-DV-y-z All on



Max Candela = 1719 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.)

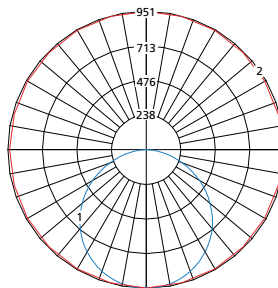
Model: BHPCK-24-D-MW-32LM-40K9-DIM1-DV-y-z Ambient Mode



Max Candela = 1111 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.)

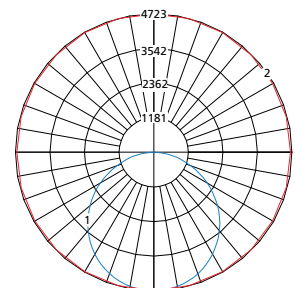
Model: BHPCK-24-D-MW-28LM-40K9-DIM1-DV-y-z Reading Mode



Max Candela = 951 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-32LM_28LM_140LM-40K9-DIM1-DV-y-z All on



Max Candela = 4723 Located At Horizontal Angle = 90, Vertical Angle = 2.5

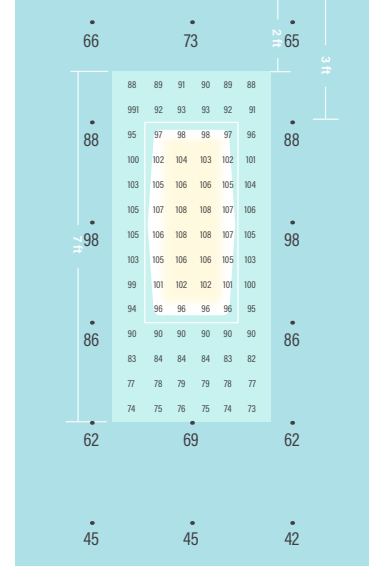
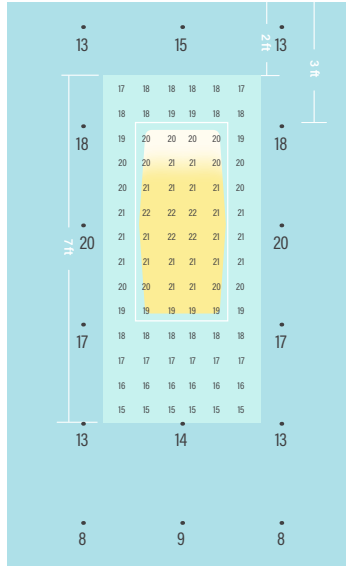
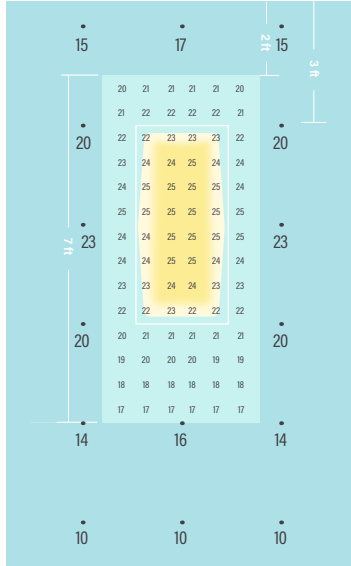
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

PERFORMANCE

Patient Room Example - BHPCK-24 - Ambient - 40K9

Patient Room Example - BHPCK-24 - Reading - 40K9

Patient Room Example - BHPCK-24 - Exam- 40K9



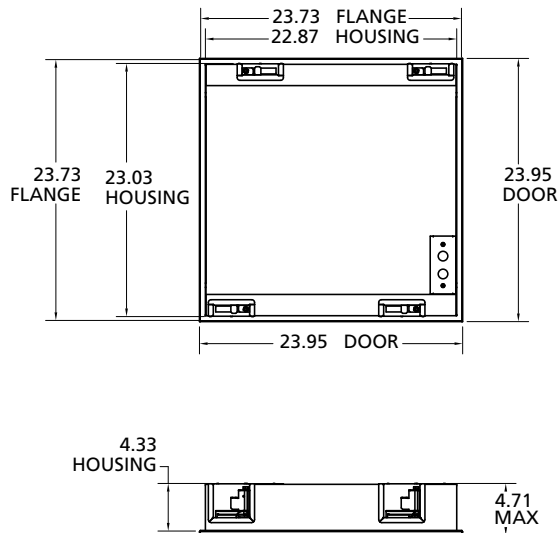
The above illustrations depict calculations performed at 9'-0" ceiling height, center of luminaire 3'-0" from head of bed, and meet recommended industry standards for illuminance and uniformity.

4000K, 90CRI

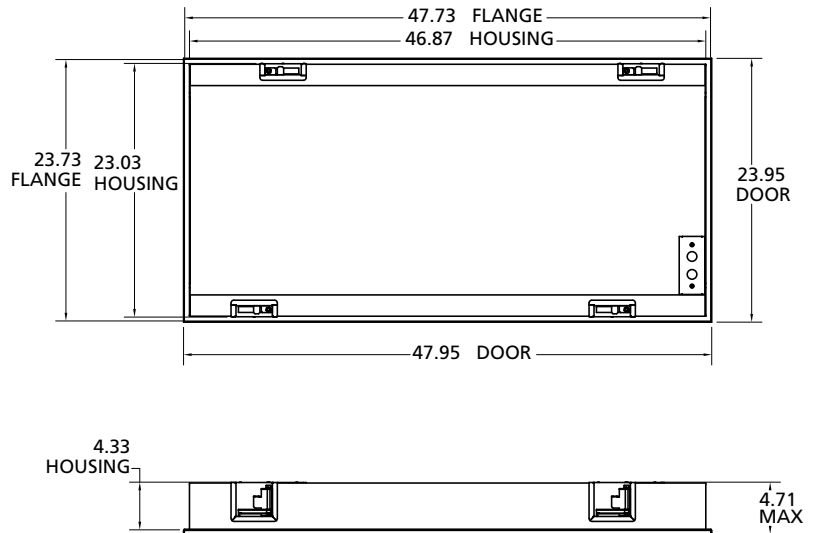
	Ambient		Reading		Exam	
	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min
Bed	22.0	1.3	19.0	1.3	95.0	1.3
Workplane	15.0	1.9	13.0	1.9	64.0	1.9

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"