

MEDMASTER PILLOW™ MPCK

Luminaires for Healthcare 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 IP64 and NSF2 rating with door construction providing unique room side access via quick-release pins
- Optional control via low-voltage controller (LVC)



2'x2'



2'x4'

SPECIFICATIONS

HOUSING: Sealed, precision-formed 24ga 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 18ga CRS doorframe with TGIC polyester powder-coat finish in selected color, with five-stage pre-treatment. Curved-sided aperture. Doorframe secured to housing with internal torsion springs. Room side access to internal components via four (4) color-matched, self-retracting hand pull pins located in corners of doorframe. Closed-cell silicone gasketing seals doorframe to housing. Continuous outer lens retention with doorframe.

OPTICS: Vacuum-formed, impact-resistant and high-efficiency diffused acrylic 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 9/16" and 15/16" lay-in grid ceilings. Gasketed wire access panel on rear of housing allows electrical connections without door removal; includes one 7/8" hole and one 7/8" knockout. See Accessories for adapter kit for drywall ceiling installation. Suitable for -20°C to 40°C ambient environments, unless otherwise noted.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 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. IP64 rating per IEC60598. NSF2 Splash/Non-Food Zone rated. Standard CCEA compliance.

ORDERING INFORMATION (EX: MPCK-24-G-MW-32LM/52LM/140LM-35K9-DIM1-DV-LVCD-F-10581-NLA)

Model	Size	Ceiling Type	Finish	Lumen Output (per Mode)	Lamp Color	Driver Type	Voltage	LV Controller	LV Configuration	Options	Accessories
MPCK	G										

Nominal Size

22 2' x 2' Nominal
24 2' x 4' Nominal

Ceiling Configuration

G 9/16" and 15/16" Lay-In Grid

Finish - Room-Side

GW Anti-Microbial Gloss White
MW Anti-Microbial Matte White
CS Cool Satin Painted Anodized
WS Warm Satin Painted Anodized
CC Custom Color

Lumen Output, by Mode*

2'x2'
16LM* 1,625 lm Ambient
16LM/50LM* 1,625 lm Ambient / 5,000 lm Reading

2'x4'
32LM 3,250 lm Ambient
32LM/140LM 3,250 lm Ambient / 14,000 lm Exam
32LM/52LM/140LM 3,250 lm Ambient / 5,200 lm Reading / 14,000 lm Exam

Lamp Color

30K9 3000K / 90 CRI min.
35K9 3500K / 90 CRI min.
40K9 4000K / 90 CRI min.

Driver Type

DIM1 0-10V Dimming to 1% with Dim-to-Dark
DALI* DALI Dimming to 1% without Dim-to-Dark

Input Voltage

DV 120-277VAC, 50/60Hz
347 347VAC, 60Hz

Optional Low Voltage (LV) Controller

LVC* Low Voltage Controller (n/a with DALI)

LVCD* Low Voltage Controller with Dimming (n/a with DALI)

Optional LV Controller Configuration†

LVC
F-10563 Ambient, Night Light (MPCK22 only)
F-10565 Ambient, Reading, Night Light (MPCK22 only)
F-10571 Ambient, Night Light (MPCK24 only)
F-10574 Ambient, Exam, Reading (MPCK24 only)
(click [here](#) for additional configurations & specifications)

LVCD

F-10568 Ambient, Reading (MPCK22 only)
F-10569 Ambient, Reading, Night Light (MPCK22 only)
F-10577 Ambient, Night Light (MPCK24 only)
F-10580 Ambient, Exam, Reading (MPCK24 only)
(click [here](#) for additional configurations & specifications)

Options

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

Accessories

FA Flange Adapter Kit

▼ 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.

ACCESSORIES ORDERED SEPARATELY

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

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			
MPCK-22	Ambient	16LM	1,579	1,579	1,628	106 - 110	15	>102,000
	Reading / All ON	50LM	4,856	4,856	5,006	122 - 125	40	
MPCK-24	Ambient	32LM	3,177	3,177	3,276	112 - 115	28	>102,000
	Reading	52LM	5,091	5,091	5,248	122 - 126	42	
	Exam / All ON	140LM	13,586	13,586	14,007	122 - 125	112	

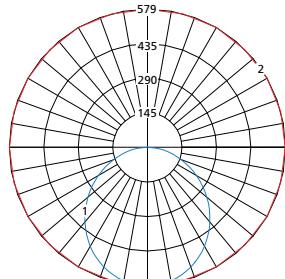
Model	Operational Mode*	Initial Delivered Lumens (lm)		Input Power (W)	TM-21 Reported L70 (hrs)
		NLW	NLA		
MPCK-22	Nightlight (optional)	48	44	1.5	>60,000
MPCK-24	Nightlight (optional)	51	47		

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 MPCK-22 Reading is the cumulative output of both the Ambient and Reading circuits ON at full output. Lumen output listed for the MPCK-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: MPCK-22-t-u-16LM-40K9-x-y-z Ambient On

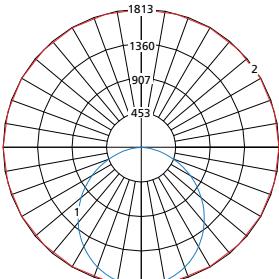


Max Candela = 579 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: MPCK-22-t-u-16LM_50LM-40K9-x-y-z All On

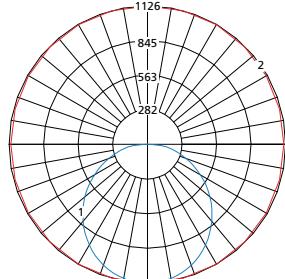


Max Candela = 1813 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MPCK-24-t-u-32LM-40K9-x-y-z Ambient On

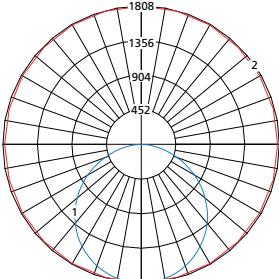


Max Candela = 1126 Located At Horizontal Angle = 75, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MPCK-24-t-u-52LM-40K9-x-y-z Reading On

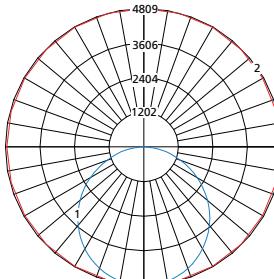


Max Candela = 1808 Located At Horizontal Angle = 90, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: MPCK-24-t-u-32LM_52LM_140LM-40K9-x-y-z All On



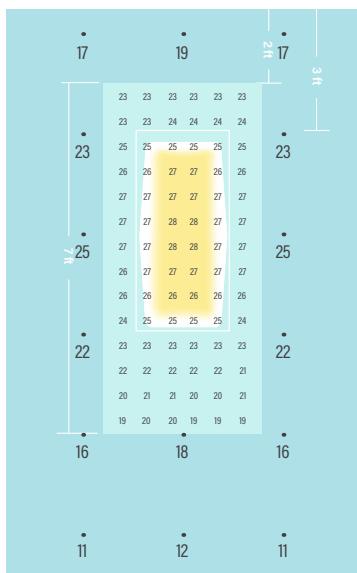
Max Candela = 4809 Located At Horizontal Angle = 90, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

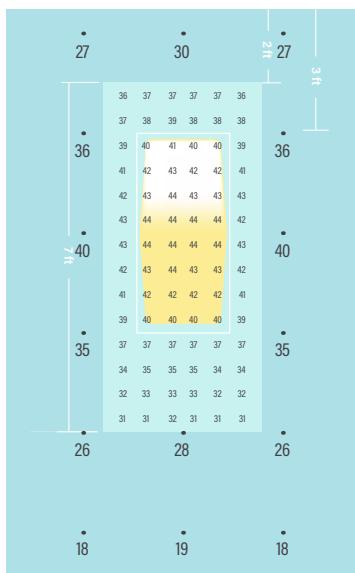
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

PERFORMANCE

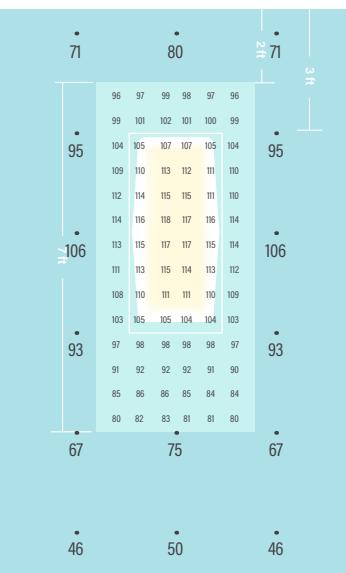
Patient Room Example - MPCK-24 - Ambient - 30K9



Patient Room Example - MPCK-24 - Reading - 30K9



Patient Room Example - MPCK-24 - Exam - 30K9

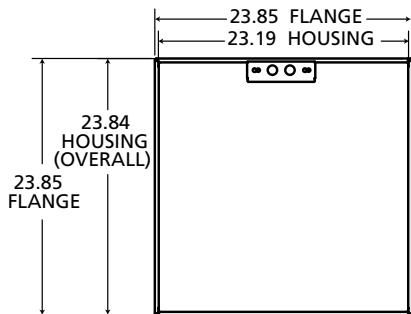


The above illustrations depict calculations performed at 9'-0" ceiling height, center of luminaire 3'-0" from head of bed, and meet recommended industry standards for illuminance and uniformity.

3000K, 90CRI

	Ambient		Reading		Exam	
	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min
Bed	24.0	1.3	38.6	1.3	102.4	1.3
Floor	16.0	1.9	26.0	1.9	68.8	1.9

DIMENSIONAL DATA

2'x2'2'x4'