

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)

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.



2'x2'



2'x4'

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 | |

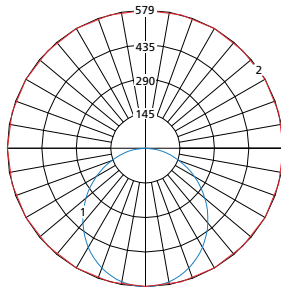
| Model | Operational Mode [*] | Initial Delivered Lumens (lm) | | Input Power (W) | TM-21 Reported L70 (hrs) |
|---------|-------------------------------|-------------------------------|-----|-----------------|--------------------------|
| | | NLW | NLA | | |
| MPCK-22 | Nightlight (optional) | 48 | 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).

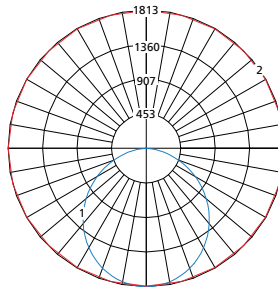
Model: MPCK-22-t-u-16LM-40K9-x-y-z Ambient On



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.)

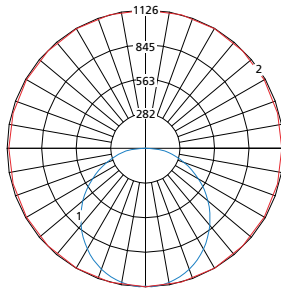
Model: MPCK-22-t-u-16LM_50LM-40K9-x-y-z All On



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.)

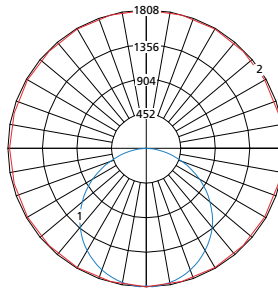
Model: MPCK-24-t-u-32LM-40K9-x-y-z Ambient On



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.)

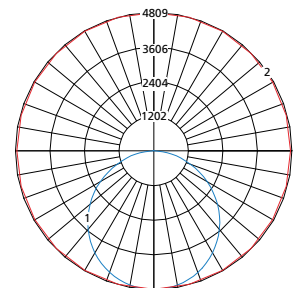
Model: MPCK-24-t-u-52LM-40K9-x-y-z Reading On



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

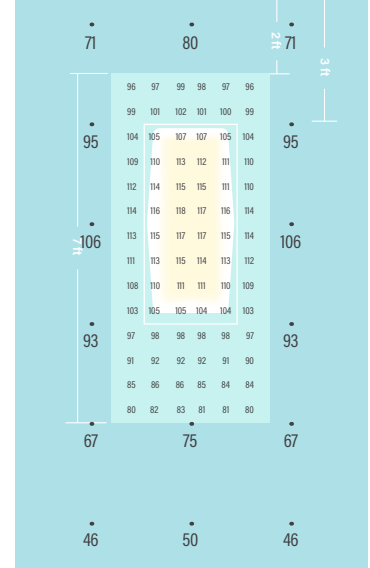
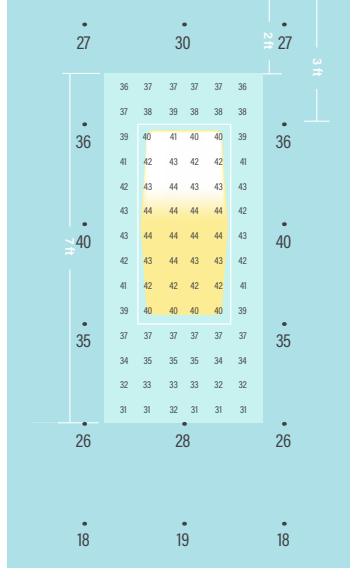
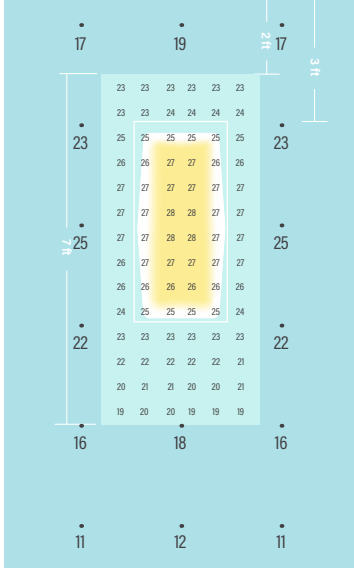
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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

