

MEDMASTER PILLOW™ SLOT MPK6-TW

PATIENT ROOM LUMINAIRE – TUNABLE WHITE LED



PRODUCT FEATURES

- Sealed 6" recessed linear slot luminaire for paired over-bed lighting
- Ambient and examination multi-function lamping with asymmetric distribution
- 2700K-5000K white tuning capability on all functions
- Innovative curved-sided aperture paired with a diffused, high-efficiency acrylic lens
- 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 two (2) color-matched, self-retracting hand pull pins located at each end of the doorframe. Closed-cell silicone gasketing seals doorframe to housing. Gasketed seal between lens and doorframe.

OPTICS: Flat, impact-resistant and high-efficiency diffused acrylic lens.

LED MODULE: Serviceable multi-channel back-lit array with tunable-white, mid-power LEDs for both ambient and examination functions. 2700K through 5000K CCT adjustment range with a two-point path. Minimum 90 CRI standard (R9 >50).

DRIVER: 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. Ambient and Exam functions are separately circuited, except when ordered with the low-voltage controller options (LVC/LVCD). Full output mode is achieved by powering both 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 LVC and LVCD provides a low-voltage patient interface, controlling the lamp functions with (LVCD) and without (LVC) dimming control. Paired installations with the LVC/LVCD options should be ordered with equal quantities of Type 'M' and 'S' units. AC power feed required to both. Lamp control intensity originates from the LVC located in the 'M' (Master) unit. Control wiring method between luminaires supplied by others. Additional option for secondary conduit entry intended for Class 2 control wiring. CCT control with analog (0-10V) control types, whether with or without the LVC/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 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: MASTER: MPK6-72-G-MW-45LMT/90LMT-27/50K9-ATW-DV-LVCD/S-M-F-10583 SATELLITE: MPK6-72-G-MW-45LMT/90LMT-27/50K9-ATW-DV-LVCD/S-LEL)

Master Model	Length	Ceiling Type	Finish	Lumen Output (per Mode)	Lamp Color	Driver Type	Voltage	LV Controller / Pairing	LV Configuration	Options	Accessories
MPK6		G			27/50K9		DV				

Satellite Model	Length	Ceiling Type	Finish	Lumen Output (per Mode)	Lamp Color	Driver Type	Voltage	LV Controller / Pairing	Options	Accessories
MPK6		G			27/50K9		DV			

Nominal Length

48	48" Nominal
72	72" Nominal

Ceiling Configuration

G	9/16" and 15/16" Lay-In Grid
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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, per Unit*

48"	
30LMT/60LMT	3,000 lm Tunable Ambient / 6,000 lm Tunable Exam

72"	
45LMT/90LMT	4,500 lm Tunable Ambient / 9,000 lm Tunable Exam

Lamp Color

27/50K9 2700K-5000K / 90CRI min.

Driver Type

ATW	Analog (0-10V) Dimming Tunable White Driver to 0.1%
DTW	DALI DT8 Tunable White Driver Dimmable to 0.1%

Input Voltage

DV 120-277VAC, 50/60Hz

Optional Low Voltage (LV) Controller

LVC*	Low Voltage Controller
LVCS*	Low Voltage Controller with Secondary Conduit Entry (Master only)
LVCD*	Low Voltage Controller with Dimming
LVCDs*	Low Voltage Controller with Dimming and Secondary Conduit Entry (Master only)

Optional LVC Master/Satellite for Paired Installations†

M	Paired Control Luminaire - Master
S	Paired Control Luminaire - Satellite

Optional LV Controller Configuration‡

F-10583 Ambient/Exam without dimming (LVC/LVCS only)

F-10585 Ambient/Exam with dimming (LVCD/LVCDs only)

Options

LEL*	Integral 10W Emergency Battery Backup
FS	Fuse & Holder

Accessories

FA	Flange Adapter Kit
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▼ This selection also determines the desired configuration of operational modes. Output referenced at 4000K tuning

* n/a with DTW Driver Type

‡ Must be ordered in conjunction with corresponding Controller option.

▲ LEL only available in Satellite unit when ordered in conjunction with LVC/LVCD. Wired to Ambient function. 0°C minimum operating temperature.

† Paired installations must be ordered with equal quantities of Type 'M' and 'S' units. AC power feed required to both. Lamp control originates from the LVC located in the Master unit. Control wiring method between luminaires supplied by others.

ACCESSORIES ORDERED SEPARATELY

MPWS	Low Voltage Wall Switch (Click here for Specifications)
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PERFORMANCE

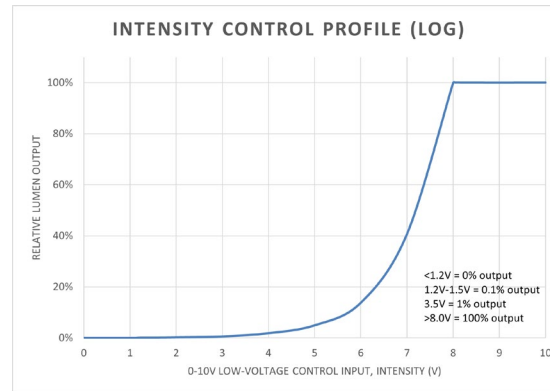
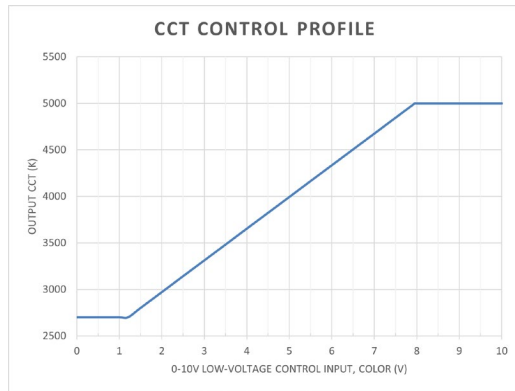
Model	Operational Mode [^]	Lumen Output, by Mode	Performance at 4000K Tuning			TM-21 Reported L70 (hrs)
			Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	
MPK6-48	Ambient	30LMT	3,010	91	33	>102,000
	Exam / All ON	60LMT	6,029	92	66	
MPK6-72	Ambient	45LMT	4,515	91	50	>102,000
	Exam / All ON	90LMT	9,043	92	99	

NOTE: Nominal Lumen Output values based on 4000K tuning level. See Performance Scaling table for characteristics at alternate CCTs. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

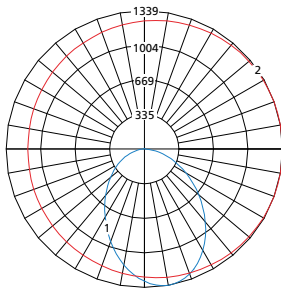
[^]Lumen output listed for the Exam is the cumulative output of the Ambient and Exam circuits ON at full output.

PERFORMANCE SCALING, BY LAMP COLOR TUNING

CCT	Lamp Power				
	Lumen Scale Factor	Ra	R9	Rf	Rg
2700K	0.92	91	55	88	102
3000K	0.96	93	65	90	102
3500K	1.00	95	77	92	102
4000K	1.00	95	83	92	102
5000K	0.96	93	80	91	102

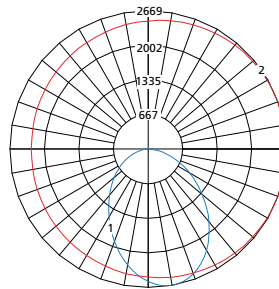


Model: MPK6-48-q-r-ASYM-30LMT-27_50K-v-w-x-y-z Ambient



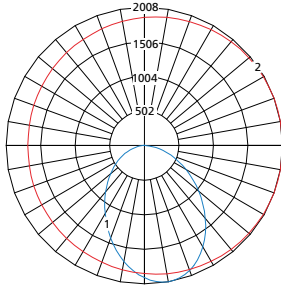
Max Candela = 1339 Located At Horizontal Angle = 20, Vertical Angle = 10
 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Model: MPK6-48-q-r-ASYM-30LMT_60LMT-27_50K-v-w-x-y-z All On



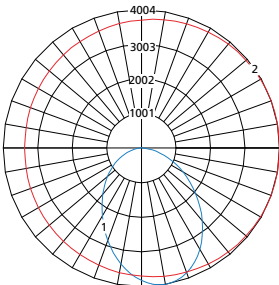
Max Candela = 2669 Located At Horizontal Angle = 15, Vertical Angle = 10
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Model: MPK6-72-q-r-ASYM-45LMT-27_50K-v-w-x-y-z Ambient



Max Candela = 2008 Located At Horizontal Angle = 20, Vertical Angle = 10
 1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

Model: MPK6-72-q-r-ASYM-45LM_90LM-27_50K-v-w-x-y-z All On

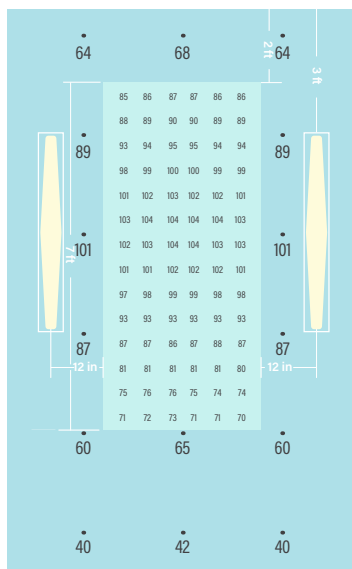
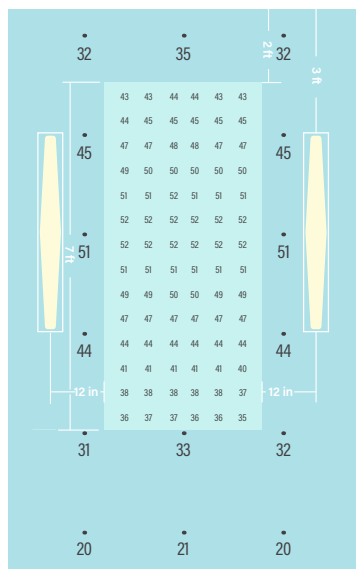


Max Candela = 4004 Located At Horizontal Angle = 15, Vertical Angle = 10
 1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)

PERFORMANCE

Patient Room Example - MPK6-48 - Ambient - Tunable

Patient Room Example - MPK6-48 - Exam - Tunable



The above illustrations depict calculations performed at 9'-0" ceiling height, center of luminaire 3'-0" from head of bed, offset 12" from edge of bed, and meet recommended industry standards for illuminance and uniformity.

MPK6-48 Tunable White Calculated at 4000K, 90 CRI

	Ambient		Exam	
	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min
Bed	45.7	1.3	91.3	1.3
Floor	32.0	2.0	64.0	2.0

MPK6-72 Tunable White Calculated at 4000K, 90 CRI*

	Ambient		Exam	
	Avg (fc)	Avg:Min	Avg (fc)	Avg:Min
Bed	66.7	1.2	133.0	1.2
Floor	48.0	1.7	95.8	1.7

* Illustration not shown; calculations based on center of luminaires positioned at 3'-6" from head of bed

DIMENSIONAL DATA

48"

72'''

