PNL2X4-LKFS
2X4 Back-Lit LED panel-LKFS

BEST LIGHTING PRODUCTS

Project:	
Type:	
Catalog #:	

STANDARDS

c(UL)us LISTED · **DLC LISTED PREMIUM** · **FC** · **DAMP** · **IC RATED FOR INSULATED CEILINGS** · **1kV Surge Protection**

HOUSING

- Aluminum frame and steel housing backplate.
- Premium powder coated white housing.

ELECTRICAL

- Operating temperature (ambient):-20°C to 40°C (-4°F to 104°F) .
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection =1kV.
- Optional Emergency drivers are available.
- Type IC-rated.
- PF > 0.9 ; THD < 20%.

OPTICAL SYSTEM

- PMMA (Polymethyl methacrylate) LED lenses for optimal light distribution, efficiency and longevity.
- Field selectable 3500k (warm white), 4000k(neutral white) and 5000k (cool white) color temperatures*.
- Tri-Lumen selectable, outputs range from 3,300 to 5,000 nominal lumens**.
- Long-life LEDs provide 144,000 hours of operation with at least 70% of initial lumen output (L70), and 44,000 hours with at least 90% of initial lumen output (L90)***.
- Uniform illumination with no visible LED pixilation.
- Color rendering index > 80%.

* Default kelvin temperature = 4000k.
** Default power setting = highest lumen output.
* **L70 & L90 hours are IES TM-21-11 calculated hours.

MOUNTING

- Recessed mounting in grid ceilings is standard.
- Standard earthquake clips provide secure installation in grid ceilings.
- Optional Surface Mounting Kits (SMKT-24) and Flange Mounting Kits (FLANGEKIT24-ET) provide for installation on plaster or other hard ceilings.
- Optional Cable Mounting Kits (PNL-CMK) provide additional security, as well as suspended mounting.

CODE COMPLIANCE

- cULus listed for damp locations and insulated ceilings.
- DLC listed.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Complies with FCC part 15, class B.

WARRANTY

- 5 year warranty on all electronics and housing.
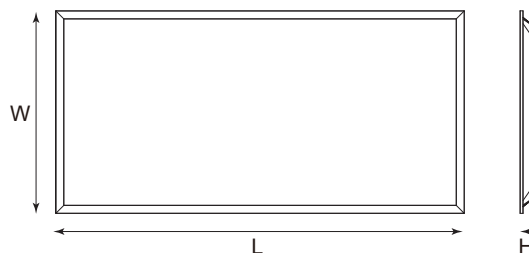
Model #	L (in)	W (in)	H (in)	Weight (lbs)
PNL2X4-50L-LKFS-PRM	47.7	23.7	1.5	9

ORDERING INFORMATION

Example: PNL2X4-50L-LKFS-PRM

Series	Maximum Lumens		Lumen Output/ Kelvin Selectable		DLC		Emergency Driver	Dimmer
			Lumen selectable	**Kelvin selectable**			Blank No Emergency Driver	DWS-010-T
PNL2X4	50L	LKFS*			PRM	Premium	EM5 5W Emergency Driver	DWS-010-D
							EM10 10W Emergency Driver	IP710-DLZ
			5,000lm / 4,500lm / 3,300lm	3500K / 4000K / 5000K			EM13 13W Emergency Driver	

* Field Selectable

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Specifications and dimensions subject to change without notice.
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ACCESSORIES (ORDER SEPARATELY)

Dimmer Option:

DWS-010-T	=	0-10V dimmer, toggle switch
DWS-010-D	=	0-10V dimmer, decoration switch
IP710-DLZ	=	0-10V dimmer, button switch

Mounting Option:

SMKT-24	=	Surface Mount Kit for 2X4 Back-lit Panel.
FLANGEKIT24-ET	=	Recessed Flange Mount Kit for 2X4 Back-lit Panel.
PNL-CM	=	Cable Mount Kit for Back-lit Panel.
PNL-JBEXT	=	Junction Box Extender for 2X2 Back-lit Panel.

LUMEN TABLES

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
PNL2X4-50L-LKFS-PRM	Lumens	3284	3323	3389	4448	4576	4538	5015	5247	5151
	Watt	24	23	24	33	32	33	38	37	38
	Efficacy	138	148	144	134	144	138	131	141	137

ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
PNL2X4-50L-LKFS-PRM	3500K	0.20	0.10	0.09	0.28	0.14	0.12	0.32	0.19	0.14
	4000K	0.19	0.10	0.08	0.27	0.13	0.12	0.31	0.15	0.13
	5000K	0.20	0.10	0.09	0.28	0.14	0.12	0.32	0.16	0.14

PHOTOMETRICS

PNL2X4-50L-LKFS-PRM
Luminaire Data

Description	Premium Back Lit Panel 2X4 50L 5K - LKFS
Total Lumens	5,157
Input Wattage	38
Efficacy (lm/W)	137
Spacing Criterion (0-180°)	1.34
Spacing Criterion (90-270°)	1.28

Photometrics calculated at 5000k-high lumens setting

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	614	11.9%
0-30°	1,316	25.5%
0-40°	2,181	42.3%
20-50°	2,491	48.3%
40-70°	2,457	47.6%
0-60°	3,964	76.9%
0-80°	5,039	97.7%
0-90°	5,152	99.9%
90-180°	5	0.1%
0-180°	5,157	100.0%

Polar Graph
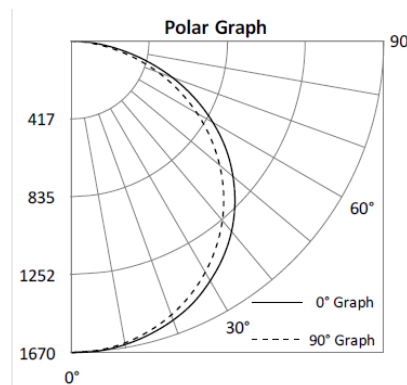
COMPATIBLE EMERGENCY DRIVERS-INSTALLED

Emergency Driver Part Number	EM5		EM10		EM13	
Model	**Watts**	**EM Lumens**	**Watts**	**EM Lumens**	**Watts**	**EM Lumens**
PNL2X4-50L-LKFS-PRM	5	650	10	1300	13	1690

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

PLUGS AND CORDS

Part number suffix	Description	For use with
6W3	6' whip - 3 conductor (black/white/green)	Standard & UNC
6W4	6' whip - 4 conductor (black/white/green/red)	EM driver
6W5	6' whip - 5 conductor (black/white/green/purple/pink)	Dimming (standard & UNC)
6W6	6' whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver

MOUNTING MEANS - ORDER SEPARATELY

- Optional Surface Mounting Kit (SMKT-24) mounts below the ceilings.
- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attached Flange Mount Kit (FLANGEKIT24-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.
- Optional cable mounting kits provide additonal security, ad well as suspended mounting. Attach one end of the Cable Mount Kit (PNL-CM) to luminaire earthquake clips using spring clips, and attach the other end to stationary structures using the adjustable, locking ceiling attachment (see picture below right).

3.7"

Surface Mounting Kits
(SMKT-24)

1.5"

Flange Mount Kit
(FLANGEKIT24-ET)

Spring Clip:
Attaches to earthquake clip

Adjustable,
Locking Ceiling Attachment

Cable Mount Kit
(PNL-CM)

Depress plunger to unlock cable