



COST LESS LIGHTING

05-PNL2X4-5CCT High-Lumen

2X4 BACK-LIT LED PANEL

p. 866.633.6883 • f. 866.699.8099 • CostLessLighting.com

PROJECT	TYPE	CATALOG #



Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
05-PNL2X4-98654L-5CCT-PRM	47.7	23.7	1.42	6.6
05-PNL2X4-98654L-5CCT-PRM-EM	47.7	23.7	1.42	7.85

Series	Nominal Lumen Output (Selectable)		Kelvin Selectable	Emergency Driver
05-PNL2X4	98654L	9,000/ 8,000/ 6,000/ 5,000/ 4,000 lm	5CCT-PRM 3000K/ 3500K/ 4000K/ 5000K/ 6500K	EM Emergency Driver

Specifications

Housing

- Steel frame and housing backplate.
- Premium powder coated white housing.

Electrical

- Operating temperature (ambient): -20°C to 45°C (-4°F to 113°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.
- 5-CCT selectable 3000k (warm white), 3500k, 4000k (neutral white) and 5000k (cool white) and 6500k (daylight) color temperature*.
- 5 Lumen selectable, outputs range from 4,000 to 9,000 nominal lumens*.
- Long-life LEDs provide 169,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)**.
- LED color maintenance < -0.0043 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Color rendering index > 80.

Mounting

- Recessed mounting in grid ceilings is standard.
- Standard earthquake clips provide secure installation in grid ceilings.
- Optional Surface Mounting Kits (05-SMKT-24) and Flange Mounting Kits (05-LEDPNL-RMKT24) provide for installation on plaster or other hard ceilings.
- Optional Cable Mounting Kits (05-PNL-CMK) provide additional security, as well as suspended mounting.

Code Compliance

- cULus listed for damp locations and insulated ceilings. Not exceeding 45°C (113°F)
- Complies with FCC part 15, class B.

Warranty

- 5-year warranty on all electronics and housing.

* Default kelvin temperature = 4000k and highest lumen output.

***L₇₀ & L₉₀ hours are IES TM-21-11 calculated hours.



Accessories (order separately)

Mounting Option:

05-SMKT-24	=	Surface Mount Kit for 2X4 Back-lit Panel.
05-LEDPNL-RMKT24	=	Recessed Flange Mount Kit for 2X4 Back-lit Panel.
05-PNL-CM	=	Cable Mount Kit for Back-lit Panel.
05-PNL-JBEXT	=	Junction Box Extender for Back-lit Panel.

Compatible Dimmers & 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

Electrical & Lumen Data

Series	Measurements	30W					40W					50W				
		3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K
05-PNL2X4-98654L-5CCT-PRM (-EM)	Lumens	4,035	4,068	4,091	4,051	3,995	5,316	5,509	5,520	5,453	5,348	6,438	6,650	6,709	6,624	6,465
	Watts	28.5	27.9	27.7	28	28.2	38.4	38.8	37.9	38.6	38.8	48.4	47.9	47	48.4	48.8
	Efficacy	141.58	145.81	147.69	144.68	141.67	138.44	141.98	145.65	141.27	137.84	133.02	138.83	142.74	136.86	132.48
	Input Current (A)	120V	0.24	0.23	0.23	0.24	0.32	0.32	0.32	0.32	0.32	0.40	0.40	0.39	0.40	0.41
		240V	0.12	0.12	0.12	0.12	0.16	0.16	0.16	0.16	0.16	0.20	0.20	0.20	0.20	0.20
		277V	0.10	0.10	0.10	0.10	0.14	0.14	0.14	0.14	0.14	0.17	0.17	0.17	0.17	0.18



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Series	Measure- ments		60W					72W				
			3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K
05-PNL2X4- 98654L- 5CCT-PRM (-EM)	Lumens		7,512	7,813	7,908	7,783	7,555	8,630	9,016	9,127	8,948	8,736
	Watts		58.4	57.7	56.9	58.6	59.2	70.1	68.4	67.4	69.5	71
	Efficacy		128.63	135.41	138.98	132.82	127.62	123.11	131.81	135.42	128.75	123.04
	Input Current (A)	120V	0.49	0.48	0.47	0.49	0.49	0.58	0.57	0.56	0.58	0.59
		240V	0.24	0.24	0.24	0.24	0.25	0.29	0.29	0.28	0.29	0.30
		277V	0.21	0.21	0.21	0.21	0.21	0.25	0.25	0.24	0.25	0.26

Photometric Data

05-PNL2X4-98654L-5CCT-PRM (-EM)

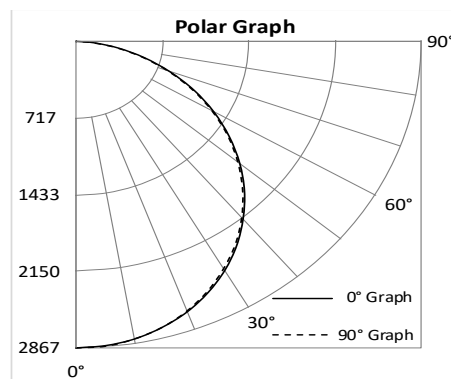
Luminaire Data

Description	High Lumen 2X4 Panel Lumen and Kelvin Select
Total Lumens	8,440
Input Wattage	68
Efficacy (lm/W)	123
Spacing Criterion (0-180°)	1.28
Spacing Criterion (90-270°)	1.28

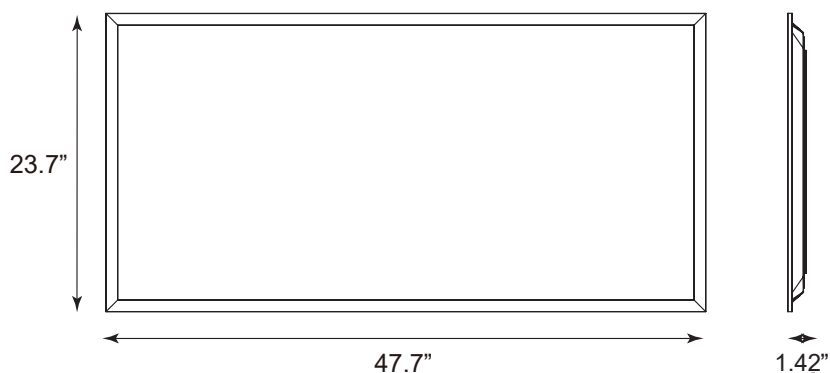
Photometrics calculated
@3000k - highest lumen
setting

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	1,052	12.5%
0-30°	2,243	26.6%
0-40°	3,692	43.7%
20-50°	4,157	49.3%
40-70°	3,961	46.9%
0-60°	6,592	78.1%
0-80°	8,267	98.0%
0-90°	8,433	99.9%
90-180°	7	0.1%
0-180°	8,440	100.0%



Dimensional Drawings





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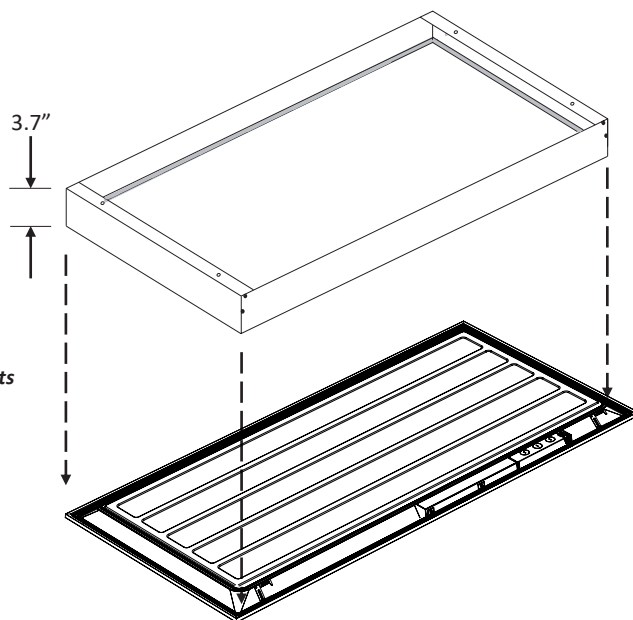
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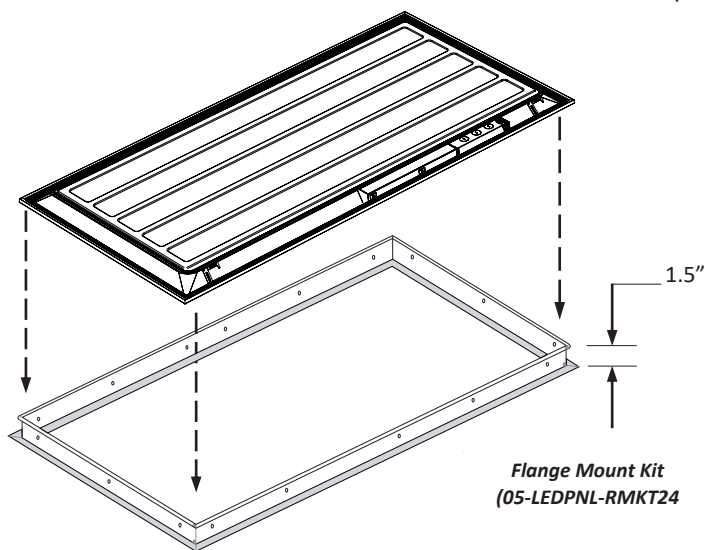
Mounting Means - Order separately

- Optional Surface Mounting Kit (05-SMKT-24) mounts below the ceilings.
- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attached Flange Mount Kit (05-FLEDPNL-RMKT24) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.
- Optional cable mounting kits provide additional security, as well as suspended mounting. Attach one end of the Cable Mount Kit (05-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).

Surface Mounting Kits
(05-SMKT-24)



Flange Mount Kit
(05-FLEDPNL-RMKT24)



Spring Clip:
Attaches to earthquake clip

Cable Mount Kit
(05-PNL-CM)



Adjustable,
Locking Ceiling Attachment

Depress plunger to unlock cable

