LEDPNL2X2-PRM-CP

Premium Performance 2x2 Ultra-Thin Edge-Lit LED Panel

Project:	
Type:	
Catalog #:	

STANDARD

The premium-performance, ultra-thin, edge-lit LED panel (LEDPNL2X2-PRM-CP) series offers industry-leading lumens per watt (LPW). This family of luminaires is designed to deliver general ambient lighting in a variety of indoor settings, including schools, offices, hospitals and stores, and is the perfect choice for both new construction and retrofits. This high-efficacy luminaire provides long-life and uniform illumination, as well as standard 0-10 vdc dimming capability.

FEATURES

- *Available in 3000k (warm white), 3500k (warm/neutral white) 4000k (neutral white) & 5000k (cool white) color temperatures.**
- *Long-life LEDs provide 199,000 hours of operation with at least 70% of initial lumen output (L_{70}).***
- *LEDPNL2X2-20W provides 2,730 luminaire lumens (124 lumens per watt, LPW) at 3000k; 2,754 luminaire lumens (125 LPW) at both 3500k; 2,769 luminaire lumens (126 LPW) at 4000k, and 2,799 luminaire lumens (127 LPW) at 5000k.**
- *LEDPNL2X2-32W provides 4,016 luminaire lumens (126 LPW) at 3000k; 4,079 luminaire lumens (127 LPW) at both 3500k; 4,109 luminaire lumens (128 LPW) at 4000k, and 4,170 luminaire lumens (130 LPW) at 5000k.**
- *Uniform illumination with no visible LED pixilation.*
- *Universal 120-277 AC voltage (50-60Hz) is standard.*
- *0-10vdc dimming capability is standard.*
- *Power factor > 0.90.*
- *Total harmonic distortion < 20%.*
- *Color rendering index > 80.*
- *Aluminum housing.*
- *PMMA (polymethyl methacrylate) light guide panels for optimal light distribution, efficiency and longevity.*
- *Easy installation in new construction or retrofit.*
- *Standard earthquake clips provide secure installation in grid ceilings.*
- *Standard mounting options include recessed mounting in grid ceilings, or suspended mounting using attached hanging brackets. For mounting in plaster or other hard ceiling, see Mounting Kits.*

** Contact factory for other color temperatures and lumen packages.*
*** L_{70} hours are IES TM-21-11 calculated hours.*

WARRANTY & LISTINGS

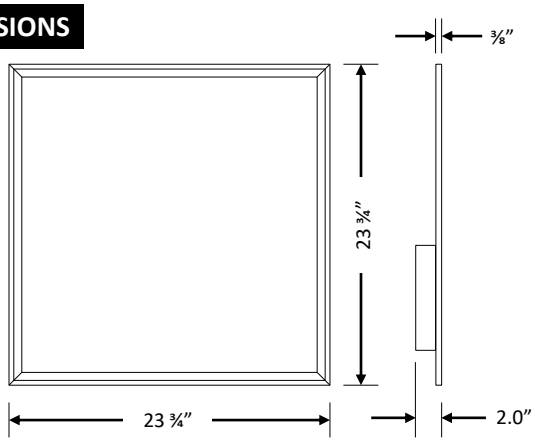
- *cULus for damp locations and insulated ceilings (IC-rated). Suitable for ambient temperatures from -20°C to 50°C (-4°F to 122°F).*
- *DLC premium approved.*
- *Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).*
- *Complies with RoHS (Restriction on Hazardous Substances) requirements.*
- *Complies with FCC Part 15, class B.*
- *Complies with EN61000-4-5, surge immunity protection (1kV).*
- *5-year warranty of all electronics and housing.*

MOUNTING KITS

See below for details

- *Optional Surface Mount Kits (LEDSMKT-22) and Flange Mounting Kits (FLANGEKIT22-ET) provide for installation on plaster or other hard ceilings.*
- *Optional Cable Mounting Kits (LEDPNL-CMK) provide additional security, as well as suspended mounting.*

DIMENSIONS



Weight: 9 ½ lbs.

ORDERING INFORMATION

Example: LEDPNL2X2-32W-3KMV-PRM-CP + LEDSMKT-22 + LEDPNL-CMK + LEDPNL-EMBRKT

Model	Luminaire Watts	Luminaire Lumens	Lumens/ Watt	Color Temperature	Options (Order Separately)
LEDPNL2X2-20W	22	2,730	124	3KMV-PRM-CP = 3000k	LEDSMKT-22 = Surface Mounting Kit (2x2)
		2,754	125	35KMV-PRM-CP = 3500K	FLANGEKIT22-ET = Flange Mounting Kit (2x2)
		2,769	126	4KMV-PRM-CP = 4000k	LEDPNL-CMK = Cable Mounting Kit, Quantity 6, 1 meter long, 1/16" diameter, with spring clips & adjustable, locking ceiling attachment
		2,799	127	5KMV-PRM-CP = 5000k	LEDPNL-EMBRKT = Bracket for emergency battery backup unit
LEDPNL2X2-32W	32	4,016	126	3KMV-PRM-CP = 3000k	
		4,079	127	35KMV-PRM-CP = 3500K	
		4,109	128	4KMV-PRM-CP = 4000k	
		4,170	130	5KMV-PRM-CP = 5000k	

LEDPNL2X2-PRM-CP Premium Performance 2x2 Ultra-Thin Edge-Lit LED Panel

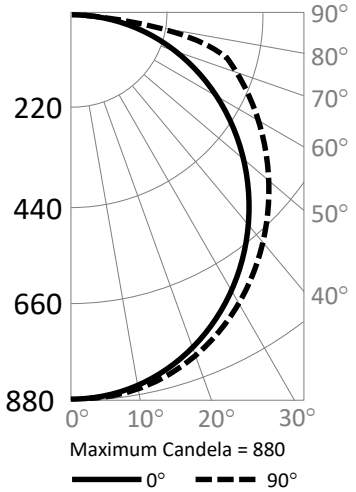
ELECTRICAL DATA

Model	Color Temp.	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage[2]	Input Current (A)			Power Factor	THD[3]	L_{70} Hours[4]
							120V	240V	277V			
LEDPNL2X2-20W-3KMV-PRM-CP	3000k	> 80	2,730	22	124	120-277	0.18	0.09	0.08	> 90%	< 20%	199,000
LEDPNL2X2-20W-35KMV-PRM-CP	3500k	> 80	2,754	22	125	120-277	0.18	0.09	0.08	> 90%	< 20%	199,000
LEDPNL2X2-20W-4KMV-PRM-CP	4000k	> 80	2,769	22	126	120-277	0.18	0.09	0.08	> 90%	< 20%	199,000
LEDPNL2X2-20W-5KMV-PRM-CP	5000k	> 80	2,799	22	127	120-277	0.18	0.09	0.08	> 90%	< 20%	199,000
LEDPNL2X2-32W-3KMV-PRM-CP	3000k	> 80	4,016	32	126	120-277	0.27	0.13	0.12	> 90%	< 20%	199,000
LEDPNL2X2-32W-35KMV-PRM-CP	3500k	> 80	4,079	32	127	120-277	0.27	0.13	0.12	> 90%	< 20%	199,000
LEDPNL2X2-32W-4KMV-PRM-CP	4000k	> 80	4,109	32	128	120-277	0.27	0.13	0.12	> 90%	< 20%	199,000
LEDPNL2X2-32W-5KMV-PRM-CP	5000k	> 80	4,170	32	130	120-277	0.27	0.13	0.12	> 90%	< 20%	199,000

[1] Color rendering index.
[2] All 50-60Hz.
[3] Total harmonic distortion.
[4] L_{70} refers to the number of hours at which lumen output declines to 70% of the initial level. L_{70} hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

LEDPNL2X2-20W-3KMV-PRM-CP (2,730 Lumens)



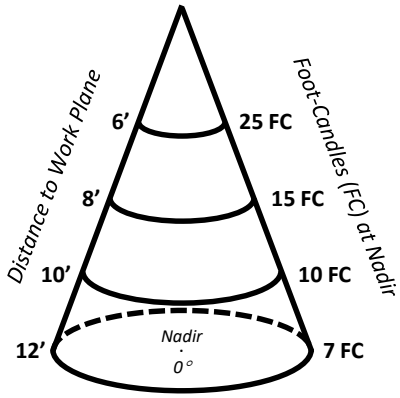
Candlepower Summary

	0°	90°
0°	879	879
10°	861	861
20°	810	815
30°	733	743
40°	632	653
50°	509	561
60°	370	469
70°	221	372
80°	79	195
90°	1	0

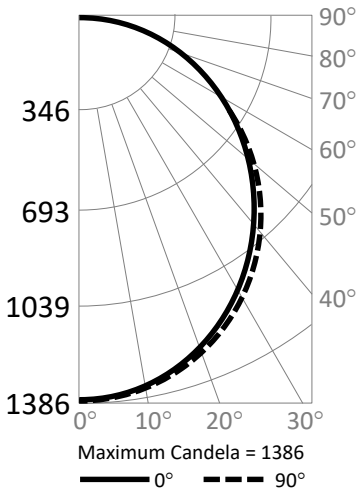
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	83	3.0%
0° – 20°	322	11.8%
0° – 30°	684	25.0%
0° – 40°	1,122	41.1%
0° – 50°	1,585	58.1%
0° – 60°	2,021	74.0%
0° – 70°	2,390	87.5%
0° – 80°	2,652	97.2%
0° – 90°	2,727	99.9%
90° – 180°	3	0.1%
0° – 180°	**2,730**	**100.0%**

Cone of Light



LEDPNL2X2-32W-3KMV-PRM-CP (4,016 Lumens)



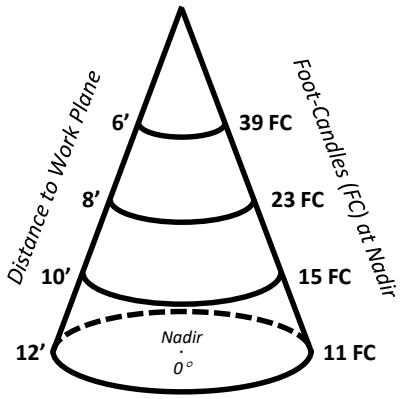
Candlepower Summary

	0°	90°
0°	1,377	1,377
10°	1,341	1,374
20°	1,260	1,312
30°	1,136	1,207
40°	979	1,059
50°	788	875
60°	573	667
70°	351	438
80°	141	219
90°	1	18

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	130	3.2%
0° – 20°	504	12.5%
0° – 30°	1,071	26.7%
0° – 40°	1,756	43.7%
0° – 50°	2,469	61.5%
0° – 60°	3,115	77.6%
0° – 70°	3,614	90.0%
0° – 80°	3,912	97.4%
0° – 90°	4,006	99.8%
90° – 180°	10	0.2%
0° – 180°	**4,016**	**100.0%**

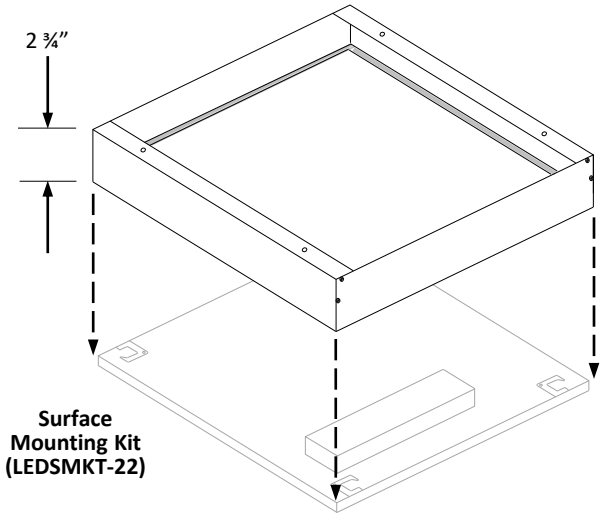
Cone of Light



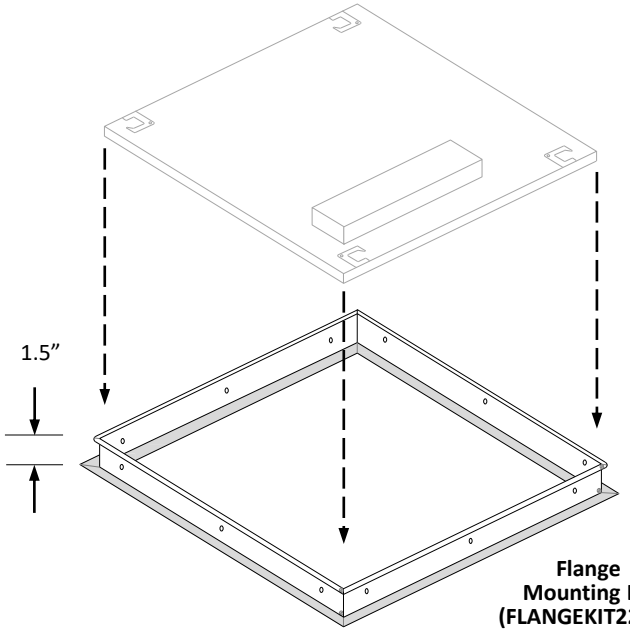
LEDPNL2X2-PRM-CP Premium Performance 2x2 Ultra-Thin Edge-Lit LED Panel

OPTIONS

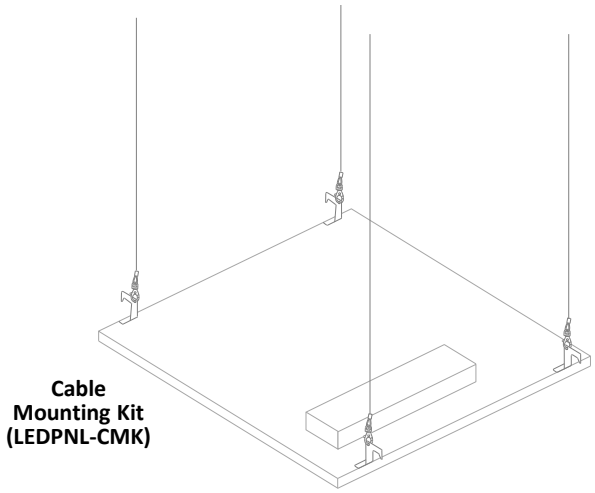
- *Optional surface mounting kits (LEDSMKT-22) mounts below the ceiling.*
- *Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attach Flange Mount Kit (FLANGEKIT22-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.*
- *Optional cable mounting kits provide additional security, as well as suspended mounting. Attach one end of the Cable Mount Kit (LEDPNL-CMK) 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).*
- *Optional bracket for emergency battery backup unit (LEDPNL-EMBRKT) provides structural support to prevent panels from bending when the battery backups are installed.*



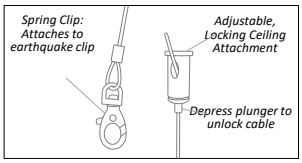
Surface Mounting Kit (LEDSMKT-22)



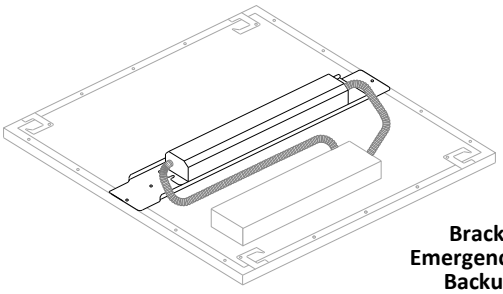
Flange Mounting Kit (FLANGEKIT22-ET)



Cable Mounting Kit (LEDPNL-CMK)



Cable Mount Kit:
- *Spring Clip*
- *Adjustable, locking ceiling attachment*



Bracket for Emergency Battery Backup Unit (LEDPNL-EMBRKT)