LEDPNL2X4-50W/70W

50/70 Watt 2x4 Ultra-Thin Edge-Lit LED Panel

BEST LIGHTING PRODUCTS

Project:	
Type:	
Catalog #:	

STANDARD

The ultra-thin, edge-lit LED panel (LEDPNL) series 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), 4000k (neutral white) and 5000k (cool white) color temperatures.**
- *Long-life LEDs provide 63,000 hours of operation with at least 70% of initial lumen output (L_{70}).***
- *LEDPNL2x4-50W Provides 4,652 luminaire lumens (99 lumens per watt, LPW) at both 3000k & 4000k, and 5,062 luminaire lumens (108 LPW) at 5000k.**
- *LEDPNL2x4-70W provides 6,645 luminaire lumens (98 LPW) at 4000k, and 7,325 luminaire lumens (108 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) acrylic lens with light guide panels for optimal light distribution and efficiency.*
- *Suitable for ambient temperatures from -25°C to 45°C (-13°F to 113°F).*
- *Easy installation in new construction or retrofit.*
- *Standard mounting options include recessed mounting in grid ceilings, or suspended mounting using attached hanging brackets. Optional surface mounting requires a surface mounting kit (option SMK).*

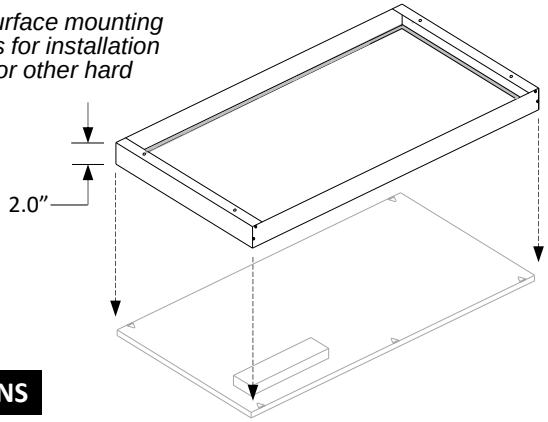
** Contact factory for other color temperatures and lumen packages.*
*** L_{70} hours are IES TM-21-11 calculated hours.*

WARRANTY & LISTINGS

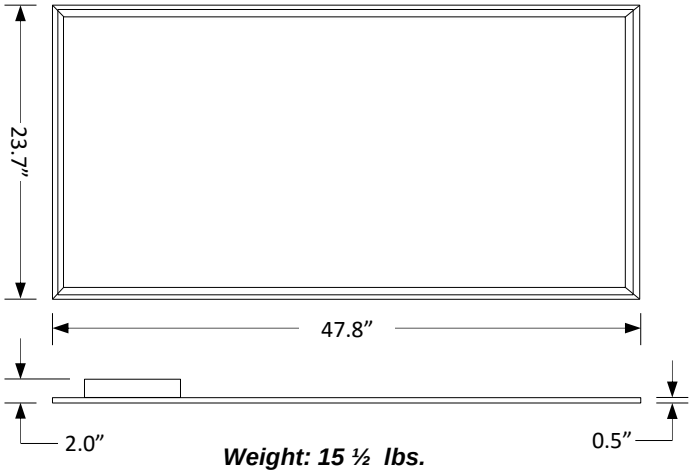
- *ETL listed to applicable U.L. standards for damp locations and insulated ceilings (IC-rated).*
- *DLC approved.*
- *Complies with FCC Part 15.*
- *5-year warranty of all electronics and housing.*

SURFACE MOUNTING KIT

- *Optional surface mounting kit provides for installation on plaster or other hard ceilings.*



DIMENSIONS



Weight: 15 ½ lbs.

ORDERING INFORMATION

Example: LEDPNL2X4-50W-4K-SMK

Model	Luminaire Watts	Color Temperature	Luminaire Lumens	Lumens / Watt	Options
LEDPNL2X4-50W	50 = 50W	3K = 3000k	4,652	99	SMK = Surface Mounting Kit
	50 = 50W	4K = 4000k	4,652	99	
	50 = 50W	5K = 5000k	5,062	108	
LEDPNL2X4-70W	70 = 70W	4K = 4000k	6,645	98	
	70 = 70W	5K = 5000k	7,325	108	

LEDPNL2X4-50W/70W 50/70 Watt 2x2 Ultra-Thin LED Panel

BEST LIGHTING PRODUCTS

ELECTRICAL DATA

Model	Color Temperature	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD [2]	L_{70} Hours [3]
							120V	240V	277V			
PNL2X4-50W-3K	3000k	> 80	4,652	47	99	120-277 (50-60Hz)	0.39	0.20	0.17	> 90%	< 20%	63,000
PNL2X4-50W-4K	4000k	> 80	4,652	47	99	120-277 (50-60Hz)	0.39	0.20	0.17	> 90%	< 20%	63,000
PNL2X4-50W-5K	5000k	> 80	5,062	47	108	120-277 (50-60Hz)	0.39	0.20	0.17	> 90%	< 20%	63,000
PNL2X4-70W-4K	4000k	> 80	6,645	68	98	120-277 (50-60Hz)	0.57	0.28	0.25	> 90%	< 20%	63,000
PNL2X4-70W-5K	5000k	> 80	7,325	68	108	120-277 (50-60Hz)	0.57	0.28	0.25	> 90%	< 20%	63,000

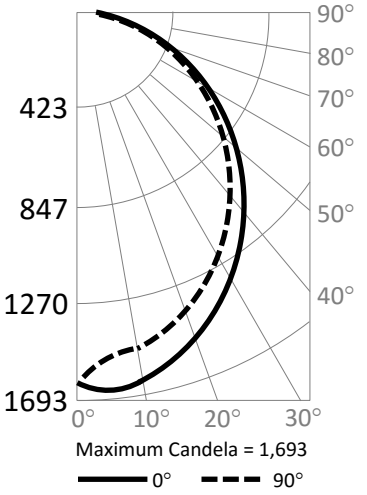
[1] Color rendering index

[2] Total harmonic distortion

[3] 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

PNL2X4-50W-4K (4,652 Lumens)



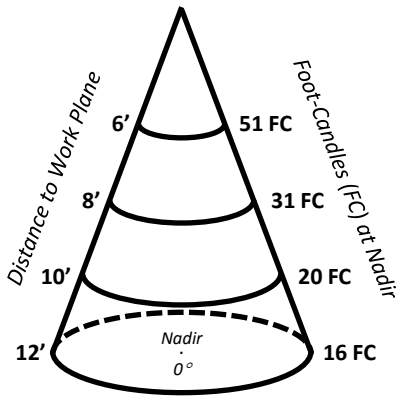
Candlepower Summary

	0°	90°
0°	1,621	1,621
10°	1,633	1,489
20°	1,516	1,389
30°	1,341	1,239
40°	1,127	1,042
50°	879	815
60°	612	570
70°	340	305
80°	98	76
90°	0	0

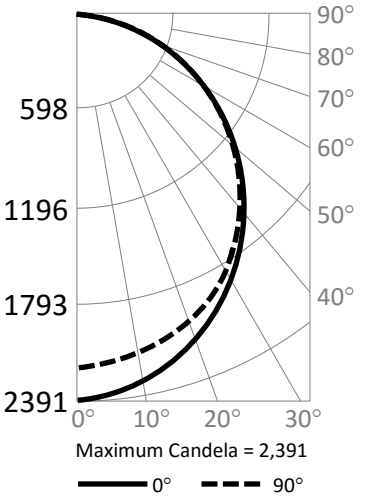
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	39	0.8%
0° – 20°	346	7.4%
0° – 30°	918	19.7%
0° – 40°	1,677	36.0%
0° – 50°	2,517	54.1%
0° – 60°	3,327	71.5%
0° – 70°	3,999	86.0%
0° – 80°	4,451	95.7%
0° – 90°	4,652	100.0%
90° – 180°	0	0.0%
0° – 180°	**4,652**	**100.0%**

Cone of Light



PNL2X4-70W-4K (6,645 Lumens)



Candlepower Summary

	0°	90°
0°	2,384	2,180
10°	2,304	2,140
20°	2,138	2,019
30°	1,891	1,824
40°	1,585	1,561
50°	1,227	1,229
60°	843	869
70°	447	482
80°	107	138
90°	0	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	56	0.8%
0° – 20°	491	7.4%
0° – 30°	1,305	19.6%
0° – 40°	2,388	35.9%
0° – 50°	3,593	54.1%
0° – 60°	4,754	71.5%
0° – 70°	5,718	86.1%
0° – 80°	6,362	95.7%
0° – 90°	6,645	100.0%
90° – 180°	0	0.0%
0° – 180°	**6,645**	**100.0%**

Cone of Light