

Project:	
Type:	
Catalog #:	



STANDARD



The ultra-thin, edge-lit LED panel (APM-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 010 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 96,000 hours of operation with at least 70% of initial lumen output (L_{70}).^{**}
- LEDPNL2X4-50W provides 5,274 luminaire lumens (105 lumens per watt, LPW) at 3000k, 5,342 luminaire lumens (107 LPW) at 3500k, 5,410 luminaire lumens (108 LPW) at 4000k, and 5,546 luminaire lumens (111 LPW) at 5000k.*
- LEDPNL2X4-70W provides 7,556 luminaire lumens (106 LPW) at 3000k, 7,650 luminaire lumens (108 LPW) at 3500k, 7,743 luminaire lumens (109 LPW) at 4000k, and 7,930 luminaire lumens (112 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.

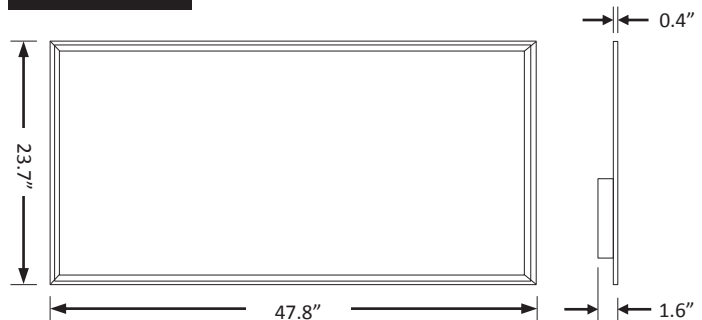
WARRANTY & LISTINGS

- cULus listed for damp locations and insulated ceilings (IC-rated). Suitable for ambient temperatures from -20°C to 40°C (-4°F to 104°F).
- DLC standard approved.
- 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

- Optional Surface Mount Kits (LEDSMKT-24) and Flange Mounting Kits (FLANGEKIT24-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: 12.6 lbs.

ORDERING INFORMATION

Example: APM-LEDPNL2X4-50W-3K-CT + LEDSMKT-24 + LEDPNL-EMBRKT

Model	Luminaire Watts	Luminaire Lumens	Lumens/Watt	Color Temperature	Accessories (Order Separately)
APM-LEDPNL 2X4-50W	50	5,274 5,342 5,410 5,546	105 107 108 111	3K-CT = 3000k 35K-CT = 3500K 4K-CT = 4000k 5K-CT = 5000k	LEDSMKT-24 = Surface Mounting Kit (2x4) FLANGEKIT24-ET = Flange Mounting Kit (2x4) LEDPNL-CMK = Cable Mounting Kit, Quantity 6, 1 meter long, 1/16" diameter, with spring clips & adjustable, locking ceiling attachment
APM-LEDPNL2x4 2X4-70W	71	7,556 7,650 7,743 7,930	106 108 109 112	3K-CT = 3000k 35K-CT = 3500K 4K-CT = 4000k 5K-CT = 5000k	LEDPNL-EMBRKT = Bracket for emergency battery backup unit

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			
APM-LEDPNL2X4-50W-3K-CT	3000k	> 80	5,274	50	105	120-277	0.42	0.21	0.18	> 0.90	< 20%	96,000
APM-LEDPNL2X4-50W-35K-CT	3500k	> 80	5,342	50	107	120-277	0.42	0.21	0.18	> 0.90	< 20%	96,000
APM-LEDPNL2X4-50W-4K-CT	4000k	> 80	5,410	50	108	120-277	0.42	0.21	0.18	> 0.90	< 20%	96,000
APM-LEDPNL2X4-50W-5K-CT	5000k	> 80	5,546	50	111	120-277	0.42	0.21	0.18	> 0.90	< 20%	96,000
APM-LEDPNL2X4-70W-3K-CT	3000k	> 80	7,556	71	106	120-277	0.59	0.30	0.26	> 0.90	< 20%	96,000
APM-LEDPNL2X4-70W-35K-CT	3500k	> 80	7,650	71	108	120-277	0.59	0.30	0.26	> 0.90	< 20%	96,000
APM-LEDPNL2X4-70W-4K-CT	4000k	> 80	7,743	71	109	120-277	0.59	0.30	0.26	> 0.90	< 20%	96,000
APM-LEDPNL2X4-70W-5K-CT	5000k	> 80	7,930	71	112	120-277	0.59	0.30	0.26	> 0.90	< 20%	96,000

¹ Color rendering index.

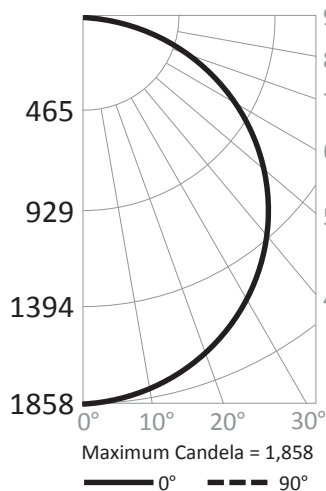
² All 50-60Hz.

³ Total harmonic distortion.

⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

APM-LEDPNL2X4-50W-3K-CT (5,274 Lumens)



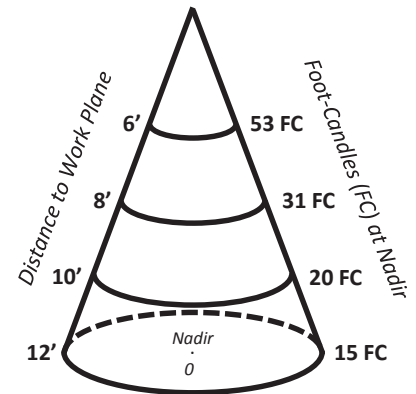
Candlepower Summary

	0°	90°
0°	1,858	1,858
10°	1,824	1,832
20°	1,724	1,743
30°	1,563	1,594
40°	1,352	1,386
50°	1,098	1,126
60°	811	829
70°	497	504
80°	190	191
90°	0	0

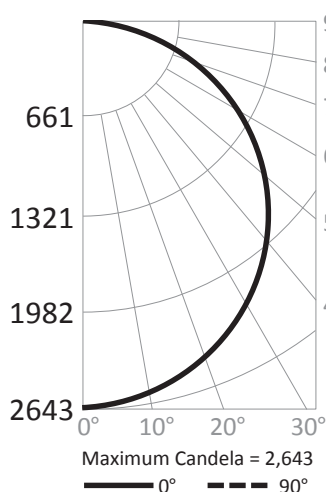
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	176	3.3%
0° - 20°	679	12.9%
0° - 30°	1,443	27.4%
0° - 40°	2,365	44.8%
0° - 50°	3,320	62.9%
0° - 60°	4,181	79.3%
0° - 70°	4,830	91.6%
0° - 80°	5,186	98.3%
0° - 90°	5,273	100.0%
90° - 180°	1	0.0%
0° - 180°	5,274	100.0%

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LEDPNL2X4-70W-3K-CT (7,556 Lumens)



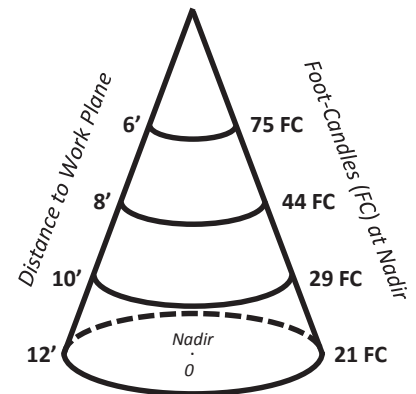
Candlepower Summary

	0°	90°
0°	2,643	2,643
10°	2,596	2,605
20°	2,454	2,486
30°	2,227	2,288
40°	1,924	1,996
50°	1,556	1,634
60°	1,149	1,202
70°	703	739
80°	270	283
90°	0	1

Zonal Lumen Summary

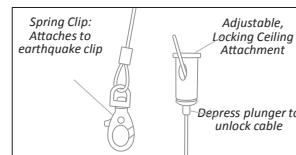
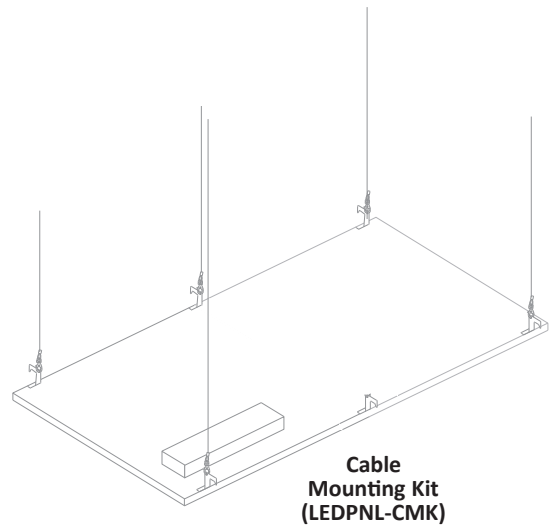
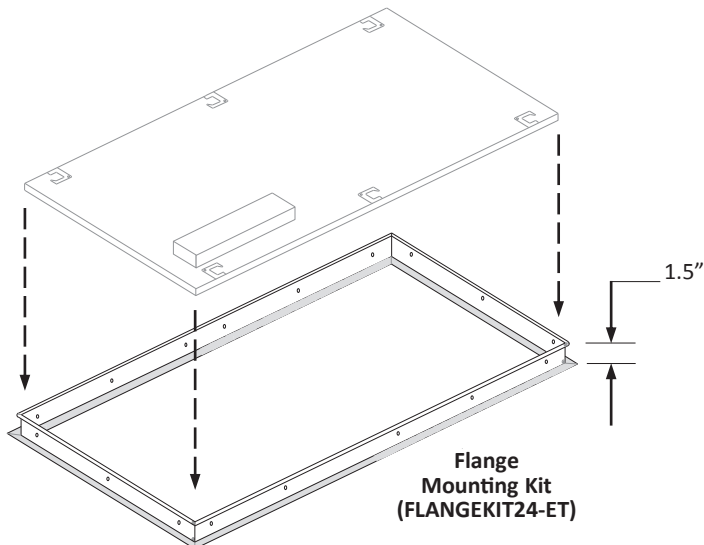
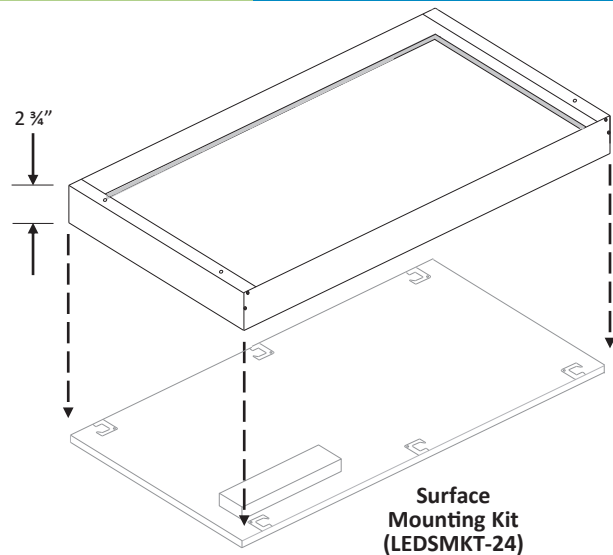
Zone	Lumens	% Fixture
0° - 10°	250	3.3%
0° - 20°	968	12.8%
0° - 30°	2,060	27.3%
0° - 40°	3,381	44.7%
0° - 50°	4,752	62.9%
0° - 60°	5,986	79.2%
0° - 70°	6,915	91.5%
0° - 80°	7,426	98.3%
0° - 90°	7,551	99.9%
90° - 180°	5	0.1%
0° - 180°	7,556	100.0%

Cone of Light



OPTIONS

- Optional surface mounting kits (LEDSMKT-24) mounts below the ceiling.
- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attach 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 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.



Cable Mount Kit:

- Spring Clip
- Adjustable, locking ceiling attachment

