LEDPNLC2X4-50W

50 Watt 2x4 Color-Tunable Ultra-Thin Edge-Lit LED Panel

LED LIGHTING WHOLESALE, INC.

Project:	
Type:	
Catalog #:	

STANDARD

c(UL)us LISTED · DLC · FC · DAMP · IC RATED FOR INSULATED CEILINGS · RoHS ✓

The color-tunable ultra-thin, edge-lit LED panel (LEDPNLC) 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. A three-position switch provides field selection of 3000k, 4000k or 5000k color temperature.

FEATURES

- *Field selection of 3000k (warm white), 4000k (neutral white) or 5000k (cool white) color temperature.* [*]
- *Long-life LEDs provide 100,000 hours of operation with at least 70% of initial lumen output (L_{70}).* [**]
- *Provides 5,085 luminaire lumens (102 lumens per watt, LPW) at 3000k; 5,587 luminaire lumens (112 LPW) at 4000k, and 5,456 luminaire lumens (109 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 plates resist yellowing.*
- *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 to applicable U.L. standards for damp locations and insulated ceilings (IC-rated). Suitable for ambient temperatures from -25°C to 45°C (-13°F to 113°F).*
- *DLC standard 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.*
- *5-year warranty of all electronics and housing.*

MOUNTING KITS   *See below for details*

- *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

23.7" × 47.8" × 1.7" · 0.4"
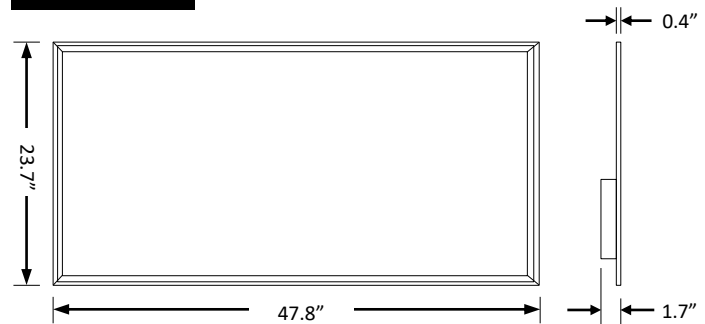
Weight: 15.5 lbs.

ORDERING INFORMATION

Example: LEDPNLC2X4-50W + LEDSMKT-24 + LEDPNL-EMBRKT

Model	Luminaire Watts	Luminaire Lumens	Lumens/ Watt	Color Temperature	Accessories (Order Separately)	
LEDPNLC2X4-50W	50	5,085	102	3000k	LEDSMKT-24	= Surface Mounting Kit (2x4)
		5,587	112	4000k	FLANGEKIT24-ET	= Flange Mounting Kit (2x4)
		5,456	109	5000k	LEDPNL-CMK	= Cable Mounting Kit, Quantity 6, 1 meter long
					KTAT-70-480-277/A	= 347/480V to 277V transformer, 70W
					KTAT-250-480-277/A	= 347/480V to 277V transformer, 250W
					KTAT-375-480-277/A	= 347/480V to 277V transformer, 375W
					BLEDEM-CP-1600	= Emergency battery backup driver, 10.7W [***]
					LEDPNL-EMBRKT	= Bracket for emergency battery backup unit

LEDPNLC2X4-50W
50 Watt 2x4 Color-Tunable Ultra-Thin Edge-Lit LED Panel

LED LIGHTING WHOLESALE, INC.

ELECTRICAL DATA

| Model	Color Temperature	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage[2]	Input Current (A)			Power Factor	THD[3]	L70 Hours[4]
							120V	240V	277V			
LEDPNLC2X4-50W	3000k	> 80	5,085	50	102	120-277	0.42	0.21	0.18	> 90%	< 20%	100,000
	4000k	> 80	5,587	50	112	120-277	0.42	0.21	0.18	> 90%	< 20%	100,000
	5000k	> 80	5,456	50	109	120-277	0.42	0.21	0.18	> 90%	< 20%	100,000

[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.
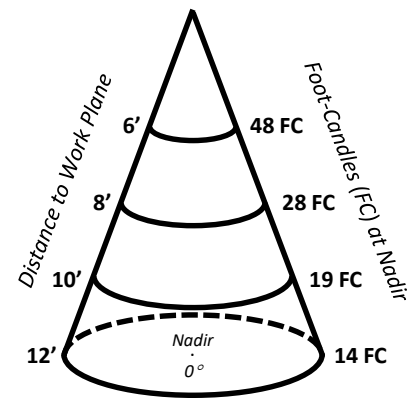
PHOTOMETRIC DATA

LEDPNLC2X4-50W (3000k)
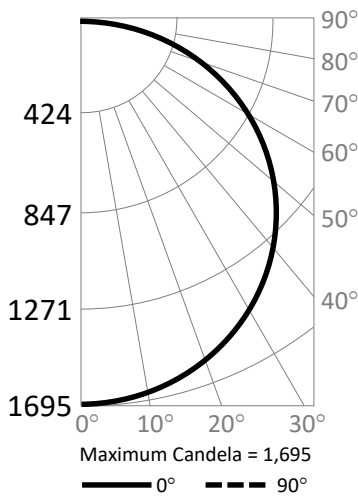
Candlepower Summary

	0°	90°
0°	1,695	1,695
10°	1,669	1,669
20°	1,598	1,587
30°	1,479	1,450
40°	1,312	1,265
50°	1,096	1,036
60°	831	770
70°	532	482
80°	226	200
90°	6	7

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	160	3.2%
0° – 20°	622	12.2%
0° – 30°	1,330	26.2%
0° – 40°	2,195	43.2%
0° – 50°	3,110	61.2%
0° – 60°	3,951	77.7%
0° – 70°	4,601	90.5%
0° – 80°	4,978	97.9%
0° – 90°	5,081	99.9%
90° – 180°	4	0.1%
0° – 180°	5,085	100.0%

Cone of Light

Distance to Work Plane	Foot-Candles (FC) at Nadir
6'	48 FC
8'	28 FC
10'	19 FC
12'	14 FC

Field Selectable CCT Switch

CW NW WW
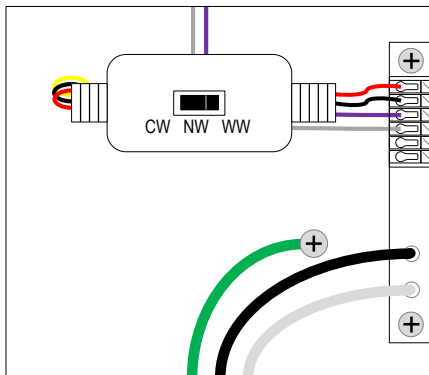
Color Temperature Selections:

• Cool White (CW) – 5000k

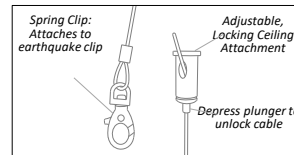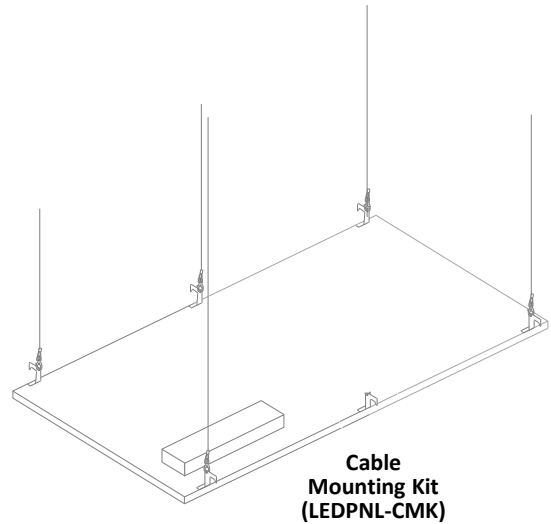• Neutral White (NW) – 4000k
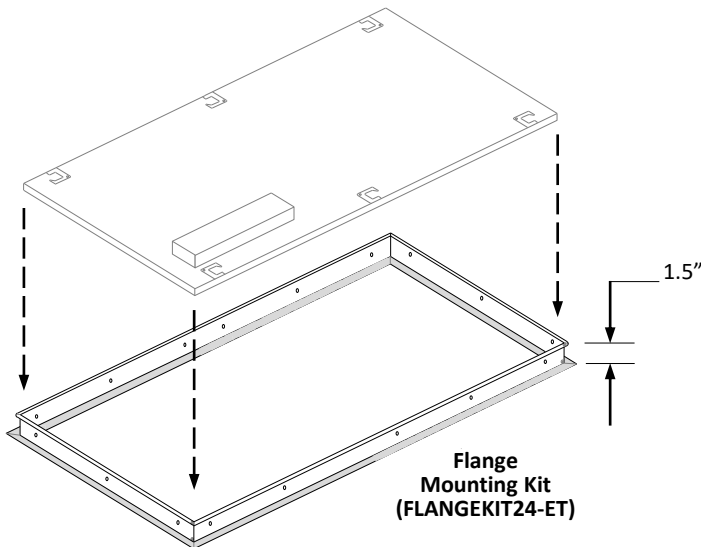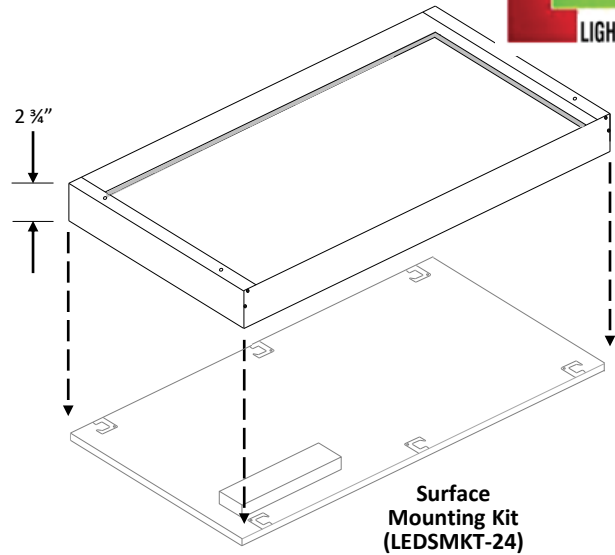
• Warm White (WW) – 3000k

LEDPNLC2X4-50W
50 Watt 2x4 Color-Tunable Ultra-Thin Edge-Lit LED Panel

LED LIGHTING WHOLESALE, INC.

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 battery backups units are installed.*

2 ¾"

Surface Mounting Kit (LEDSMKT-24)

1.5"

Flange Mounting Kit (FLANGEKIT24-ET)

Cable Mounting Kit (LEDPNL-CMK)

Spring Clip: Attaches to earthquake clip

Adjustable, Locking Ceiling Attachment

Depress plunger to unlock cable

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

Bracket for Emergency Battery Backup Unit (LEDPNL-EMBRKT)