



PROJECT	TYPE	CATALOG #



Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
05-PNL2X2-40L-LKFS	23.74	23.74	1.38	4.11

Series	Maximum Lumens		Lumen Output/ Kelvin Selectable		Emergency Driver	
			Lumen selectable	Kelvin selectable	Blank	No Emergency Driver
05-PNL2X2	40L	LKFS*	4,000/3,600/2,700 lm	3000K/3500K/4000K/5000K/6500K	EM5	5W Emergency Driver
					EM9	9W Emergency Driver
					EM10	10W Emergency Driver
					EM13	13W Emergency Driver
					EM15	15W Emergency Driver

Specifications

Housing

- White power-coated steel housing.

Electrical

- High ambient operating temperature up to 50°C.
- Universal 120-277V AC voltage (50-60Hz).
- 0-10VDC dimming driver.
- Input transient surge protection =1kV.
- Optional Emergency drivers are available.
- Type IC-rated.
- Power Factor > 0.9
- Total Harmonic Distortion < 20%.

Optical System

- Efficacy up to 142 lumens per Watt
- Field selectable 3000K, 3500K, 4000K, 5000K, and 6500K color temperatures.*
- Selectable output delivers from 2,882 to 4,465 nominal lumens, with 3 settings.*
- Long-life LEDs provide 180,000 hours of operation with at least 70% of initial lumen output (L70), and 54,000 hours with at least 90% of initial lumen output (L90).**
- LED color maintenance <0.0007 chromaticity shift ($\Delta u'v'$) over the initial 6,000 hours of operation.
- Plastic lens.
- 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-22S) and Flange Mounting Kits (05-FLANGEKIT22-ET) provide for installation on plaster or other hard ceilings.
- Optional Cable Mounting Kits (05-PNL-CM) provide additional security, as well as suspended mounting.

Code Compliance

- cULus listed for damp locations and insulated ceilings.
- Flicker-free per IEEE 1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Complies with FCC Part 15, Class A.
- Inherently protected.
- IP6X rated for ingress protection.

Warranty

- 5-year warranty on all electronics and housing.

* Factory default kelvin temperature 4000K and highest lumen output.

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



Accessories (order separately)

Mounting Options:

- 05-SMKT-22S = Surface Mount Kit for 2X2 Back-lit Panel.
- 05-FLANGEKIT22-ET = Recessed Flange Mount Kit for 2X2 Back-lit Panel.
- 05-PNL-CM = Cable Mount Kit for Back-lit Panel.

Remote Mount EM Drivers:

- 03-BLEM-CP-5C = 5W Emergency Driver
- 03-BLEM-CP-10C = 10W Emergency Driver
- 03-BLEM-CP-13C = 13W Emergency Driver

Compatible Emergency Drivers - Installed

Emergency Driver Part Number	EM5		EM9		EM10		EM13		EM15	
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens
05-PNL2X2-40L-LKFS	5	650	9	1175	10	1300	13	1690	15	1950

Compatible Dimmers & Controls

Manufacturer	Model Number	Style	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	Toggle	10%-100%	600W
Best Lighting	DWS-010V-D	Decora	10%-100%	600W
Best Lighting	GPDM LV-02-3	Toggle	10%-100%	600W
Best Lighting	GPDM LV-12-3	Decora	10%-100%	600W
Leviton	IP710-LFZ	Toggle	10%-100%	1200W
Lutron	DVSTV	Decora	10%-100%	450W



Lumen Tables & Electrical Data

Series	Measure-ments	4L					3L					2L				
		3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K
05-PNL2X2-40L-LKFS	Lumens	4,264	4,414	4,465	4,463	4,331	3,649	3,757	3,796	3,795	3,704	2,882	2,949	2,973	2,975	2,926
	Watts	33.9	33.2	32.7	33.2	34.1	27.6	27.0	26.7	26.9	27.7	20.7	20.4	20.2	20.4	20.8
	Efficacy	125.7	133.0	136.5	134.6	127.2	132.4	139.0	142.2	141.0	133.8	139.3	144.8	147.5	146.0	140.9
	Input Current (A)	120V	0.28	0.28	0.27	0.28	0.28	0.23	0.23	0.22	0.22	0.23	0.17	0.17	0.17	0.17
		240V	0.14	0.14	0.14	0.14	0.11	0.11	0.11	0.11	0.12	0.09	0.08	0.08	0.08	0.09
		277V	0.12	0.12	0.12	0.12	0.10	0.10	0.10	0.10	0.10	0.07	0.07	0.07	0.07	0.07

Photometric Data

05-PNL2X2-40L-LKFS

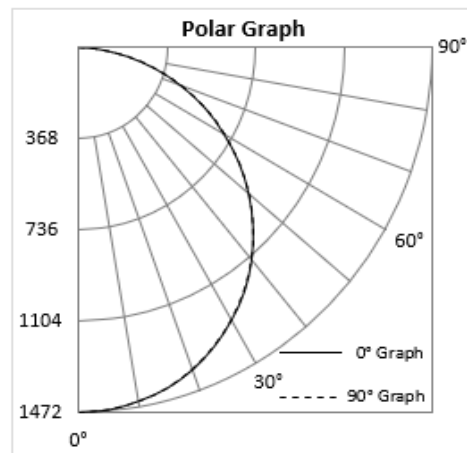
Luminaire Data

Description	Back Lit Panel 2X2 Lumen and Kelvin Select
Total Lumens	4,465
Input Wattage	33
Efficacy (lm/W)	137
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.3

*Photometrics generated @4000k and highest lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	540	12.1%
0-30°	1,154	25.9%
0-40°	1,907	42.7%
20-50°	2,161	48.4%
40-70°	2,100	47.0%
0-60°	3,432	76.9%
0-80°	4,357	97.6%
0-90°	4,460	99.9%
90-180°	5	0.1%
0-180°	4,465	100.0%





COST LESS LIGHTING

05-PNL2X2-LKFS

2X2 BACK-LIT LED PANEL-LKFS

p. 866.633.6883 • f. 866.699.8099 • CostLessLighting.com

Branch Wiring Options

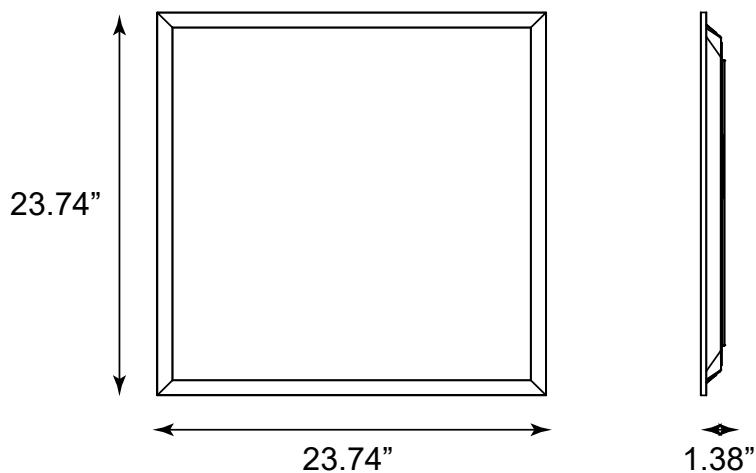
When ordering flexible metal conduit use the following suffix choices.

Example: 05-PNL2X2-40L-LKFS-6W3

Note: Cords & Plugs do not affect the ability to install sensors.

Part number suffix	Description	For use with
6W3	6' whip - 3 conductor (black/white/green)	Standard
6W4	6' whip - 4 conductor (black/white/green/red)	EM driver
6W5	6' whip - 5 conductor (black/white/green/purple/pink)	Dimming
6W6	6' whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver

Dimensional Drawings





COST LESS LIGHTING

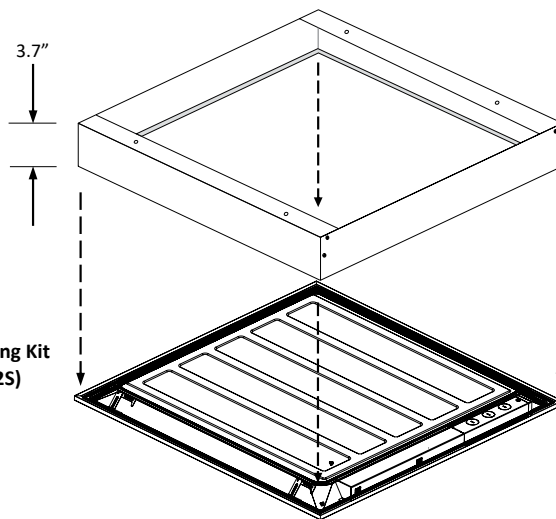
05-PNL2X2-LKFS

2X2 BACK-LIT LED PANEL-LKFS

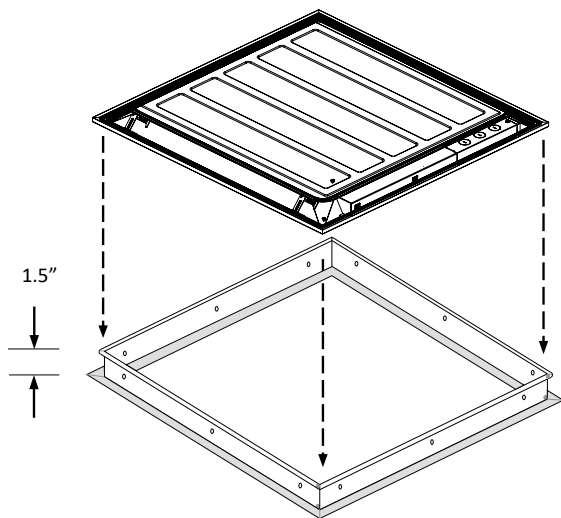
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Mounting Means - Order separately

- Optional Surface Mounting Kit (05-SMKT-22S) mounts below the ceiling.
- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attach the Flange Mount Kit (05-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 (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 at the lower right).



Surface Mounting Kit
(05-SMKT-22S)



Flange Mount Kit
(05-FLANGEKIT22-ET)

Spring Clip:
Attaches to earthquake clip

Cable Mount Kit
(05-PNL-CM)



Adjustable,
Locking Ceiling Attachment

Depress plunger to unlock cable

