ECO-PNL1X4-LKFS 1X4 Back-Lit LED Panel-LKFS

Project:	
Type:	
Catalog #:	

STANDARDS

HOUSING

- Aluminum frame and steel housing backplate.
- Premium powder coated white housing.

ELECTRICAL

- Operating temperature (ambient):-20°C to 40°C (-4°F to 104°F) .
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection =1kV.
- Optional Emergency drivers are available.
- Type IC-rated.
- PF > 0.9 ; THD < 20%.

OPTICAL SYSTEM

- PMMA (Polymethyl methacrylate) LED lenses for optimal light distribution, efficiency and longevity.
- Field selectable 3500k (warm white), 4000k(neutral white) and 5000k (cool white) color temperatures*.
- Tri-Lumen selectable, outputs range from 2,600 to 4,000 nominal lumens**.
- Long-life LEDs provide 144,000 hours of operation with at least 70% of initial lumen output (L70), and 44,000 hours with at least 90% of initial lumen output (L90)***.
- Uniform illumination with no visible LED pixilation.
- Color rendering index > 80%.

* Default kelvin temperature = 4000k.
** Default power setting = highest lumen output.
* **L70 & L90 hours are IES TM-21-11 calculated hours.

MOUNTING

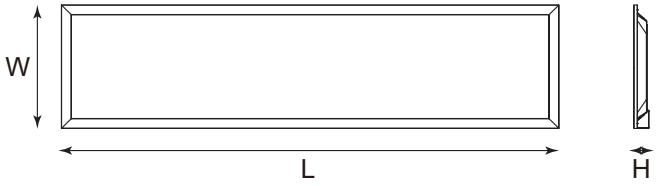
- Recessed mounting in grid ceilings is standard.
- Standard earthquake clips provide secure installation in grid ceilings.
- Optional Surface Mounting Kits (SMKT-14) and Flange Mounting Kits (FLANGEKIT14-ET) provide for installation on plaster or other hard ceilings.
- Optional Cable Mounting Kits (PNL-CMK) provide additional security, as well as suspended mounting.

CODE COMPLIANCE

- cULus listed for damp locations and insulated ceilings.
- DLC listed.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Complies with FCC part 15, class B.

WARRANTY

- 5 year warranty on all electronics and housing.



Model #	L (in)	W (in)	H (in)	Weight (lbs)
ECO-PNL1X4-40L-LKFS	47.7	11.8	1.5	6

ORDERING INFORMATION

Example: ECO-PNL1X4-40L-LKFS

Series	Maximum Lumens	Lumen Output/ Kelvin Selectable			Emergency Driver	Dimmer
ECO-PNL1X4	40L	LKFS*	Lumen selectable	Kelvin selectable	Blank No Emergency Driver EM5 5W Emergency Driver EM10 10W Emergency Driver EM13 13W Emergency Driver	DWS-010-T DWS-010-D IP710-DLZ
			4,000lm / 3,400lm / 2,600lm	3500K / 4000K / 5000K		

* Field Selectable

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Revision 1 - 10/9/24

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ACCESSORIES (ORDER SEPARATELY)

Dimmer Option:

DWS-010-T	=	0-10V dimmer, toggle switch
DWS-010-D	=	0-10V dimmer, decoration switch
IP710-DLZ	=	0-10V dimmer, button switch

Mounting Option:

SMKT-14	=	Surface Mount Kit for 1X4 Back-lit Panel.
FLANGEKIT14-ET	=	Recessed Flange Mount Kit for 1X4 Back-lit Panel.
PNL-CM	=	Cable Mount Kit for Back-lit Panel.
PNL-JBEXT	=	Junction Box Extender for 2X2 Back-lit Panel.

LUMEN TABLES

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
ECO-PNL1X4-40L-LKFS	Lumens	2584	2729	2656	3425	3713	3531	4085	4342	4218
	Watt	20	19	20	28	27	28	35	33	34
	Efficacy	127	140	132	122	137	127	117	131	123

ELECTRICAL DATA

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
ECO-PNL1X4-40L-LKFS	3500K	0.17	0.08	0.07	0.23	0.12	0.10	0.29	0.15	0.13
	4000K	0.16	0.08	0.07	0.23	0.11	0.10	0.28	0.14	0.12
	5000K	0.17	0.08	0.07	0.23	0.12	0.10	0.28	0.14	0.12

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PHOTOMETRICS

ECO-PNL1X4-40L-LKFS

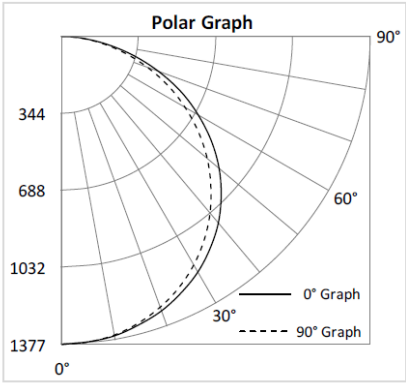
Luminaire Data

Description	Back Lit Panel 1X4 40L 5K - LKFS
Total Lumens	4,218
Input Wattage	34
Efficacy (lm/W)	123
Spacing Criterion (0-180°)	1.32
Spacing Criterion (90-270°)	1.28

Photometrics calculated at 5000k-high lumens setting

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	506	12.0%
0-30°	1,085	25.7%
0-40°	1,796	42.6%
20-50°	2,044	48.4%
40-70°	1,995	47.3%
0-60°	3,246	77.0%
0-80°	4,117	97.6%
0-90°	4,213	99.9%
90-180°	5	0.1%
0-180°	4,218	100.0%



COMPATIBLE EMERGENCY DRIVERS-INSTALLED

Emergency Driver Part Number	EM5		EM10		EM13	
Model	Watts	EM Lumens	Watts	EM Lumens	Watts	EM Lumens
ECO-PNL1X4-40L-LKFS	5	650	10	1300	13	1690

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

PLUGS AND CORDS

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

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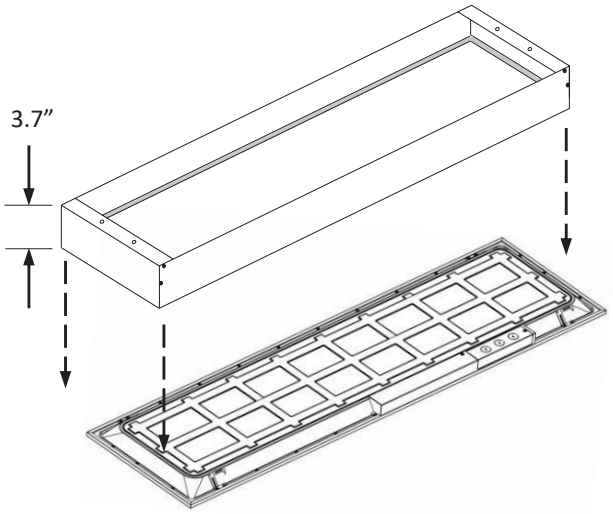
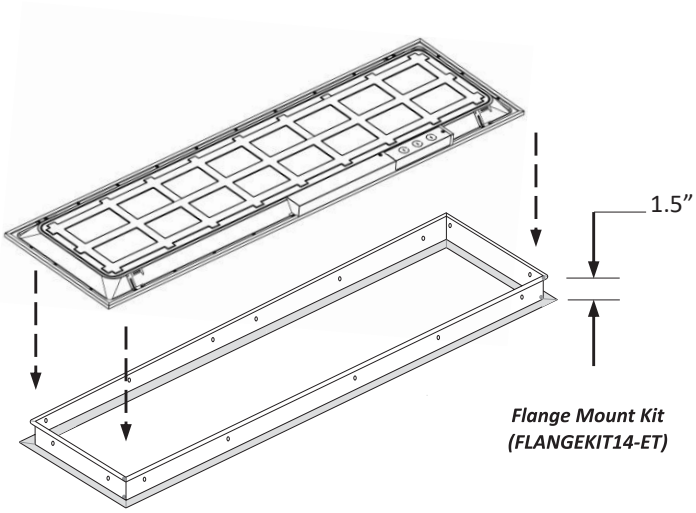
MOUNTING MEANS - ORDER SEPARATELY

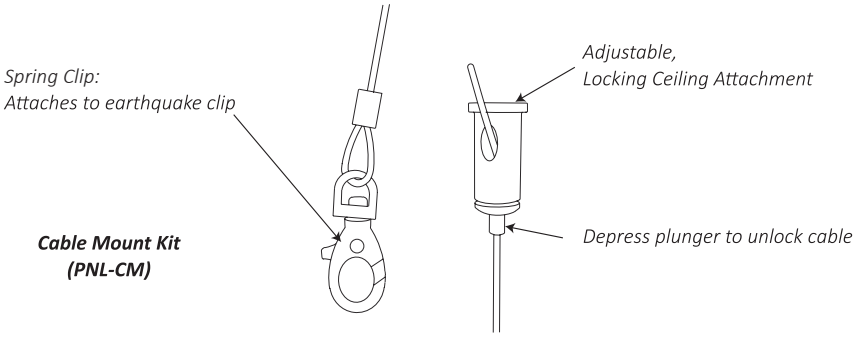
- Optional Surface Mounting Kit (SMKT-14) mounts below the ceilings.
- Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attached Flange Mount Kit (FLANGEKIT14-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.
- Optional cable mounting kits provide additonal security, ad well as suspended mounting. Attach one end of the Cable Mount Kit (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 below right).



Surface Mounting Kits (SMKT-14)



Flange Mount Kit (FLANGEKIT14-ET)



Cable Mount Kit (PNL-CM)

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