COST LESS LIGHTING

05-PNLSR24

2X4 BACK-LIT LED PANEL
FIELD SELECTABLE & SENSOR READY

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PROJECT	TYPE	CATALOG #



Model	Size (inches) & Weight (lbs)			
	L (in)	W (in)	H (in)	Weight
05-PNLSR24-543L-5CCT	47.76	23.74	1.38	7.67

Series	Nominal Lumen Output (Selectable)	CCT (Selectable)	Emergency Driver
05-PNLSR24	543L = 5,000 / 4,000 / 3,000 Lumens	5CCT = 3000K/ 3500K/ 4000K / 5000K/ 6500K	Blank = No Emergency Driver EM5 = 5W Emergency Driver EM9* = 9W Emergency Driver EM10 = 10W Emergency Driver EM13 = 13W Emergency Driver EM15* = 15W Emergency Driver

**New Side Mount EM Option - Available Q2 2027*

Specifications

Housing

- *White power-coated steel housing.*

Electrical

- *High ambient operating temperature up to 50°C (122°F).*
- *120-277VAC, 50-60Hz.*
- *0-10V dimming driver.*
- *Input transient surge protection: 1kV.*
- *Optional emergency drivers available.*
- *Type IC-rated.*
- *Power factor > 0.90.*
- *Total harmonic distortion (THD) < 20%.*

Optical System

- *Efficacy up to 145 lumens per watt.*
- *Field-selectable 3000K, 3500K, 4000K, 5000K, and 6500K color temperatures.**
- *Selectable output delivers from 3,820 to 5,347 lumens across 3 settings.**
- *Long-life LEDs provide 175,000 hours of operation with at least 70% of initial lumen output (L70), and 53,000 hours with at least 90% of initial lumen output (L90).***
- *Sensor-ready receptacle comes standard. Push-in sensor and remote control sold separately.*
- *LED color maintenance < 0.0008 chromaticity shift (Δu'v') over the initial 6,000 hours of operation.*
- *Plastic lens.*
- *Color Rendering Index (CRI) > 80.*

Mounting

- *Recessed mounting in grid ceilings is standard.*
- *Standard earthquake clips provide secure installation in grid ceilings.*
- *Optional Surface Mounting Kits (05-SMKT-24S) and Flange Mounting Kits (05-FLANGEKIT24-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 B.*
- *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 and L90 hours are IES TM-21-11 calculated hours.*

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Accessories (order separately)

Sensor:

25-HD08VR-P-1	=	Passive infrared sensor - maximum mounting height = 14 FT, 0-10V step dim, RCA
25-HD08VR-M-1	=	Microwave occupancy sensor - maximum mounting height = 13 FT, 0-10V step dim, RCA
25-ANT-1P-5T-BLE-GE	=	BlueZone™ Bluetooth® PANEL PIR sensor, 120-277V, 0-10V step dim, daylight threshold, maximum mounting height = 12 FT, RCA
25-ANT-1M-5T-BLE-GE	=	BlueZone™ Bluetooth® PANEL microwave occupancy sensor, 120-277V, 0-10V step dim, daylight threshold, maximum mounting height = 12 FT, RCA

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

Mounting Option:

05-SMKT-24S	=	Surface Mount Kit for 2X4 Back-lit Panel and Center Baskets.
05-FLANGEKIT24-ET	=	Recessed Flange Mount Kit for 2X4 Back-lit Panel and Center Baskets.
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 Driver-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-PNLSR24-543L-5CCT	5	675	9	1215	10	1350	13	1755	15	2025

**New Side Mount EM Option - Avilable Q2 2027*

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	GPDMLV-02-3	Toggle	10-100%	600W
Best Lighting	GPDMLV-12-3	Decora	10-100%	600W
Leviton	IP710-LFZ	Toggle	10-100%	1200W
Lutron	DVSTV	Decora	10-100%	450W

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Lumen Tables & Electrical Data

Series	Measure-ments		5L					4L					3L				
			3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K	3000K	3500K	4000K	5000K	6500K
05-PNLSR24-543L-5CCT	Lumens		5,239	5,266	5,368	5,411	5,347	4,691	4,725	4,810	4,850	4,802	3,820	3,868	3,932	3,969	3,948
	Watts		39.7	39.1	38.5	39.1	39.8	34.8	34.3	33.8	34.3	34.9	27.4	27.1	26.8	27.1	27.5
	Efficacy (lm/W)		131.9	134.8	139.6	138.4	134.2	135.0	137.8	142.3	141.3	137.5	139.4	142.8	146.8	146.5	143.5
	Input Current (A)	120V	0.33	0.33	0.32	0.33	0.33	0.29	0.29	0.28	0.29	0.29	0.23	0.23	0.22	0.23	0.23
		240V	0.17	0.16	0.16	0.16	0.17	0.14	0.14	0.14	0.14	0.15	0.11	0.11	0.11	0.11	0.11
		277V	0.14	0.14	0.14	0.14	0.14	0.13	0.12	0.12	0.12	0.13	0.10	0.10	0.10	0.10	0.10

Photometric Data

05-PNLSR24-543L-5CCT

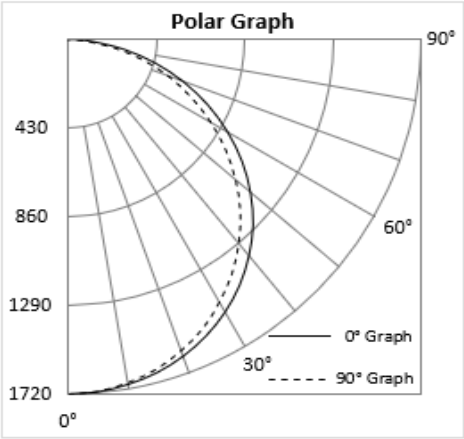
Luminaire Data

Description	Back Lit Panel 2X4 Lumen and Kelvin Select
Total Lumens	5,368
Input Wattage	38
Efficacy (lm/W)	140
Spacing Criterion (0-180°)	1.32
Spacing Criterion (90-270°)	1.28

*Photometrics generated @4000k and highest lumen output.

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	634	11.8%
0-30°	1,358	25.3%
0-40°	2,249	41.9%
20-50°	2,569	47.9%
40-70°	2,546	47.4%
0-60°	4,091	76.2%
0-80°	5,229	97.4%
0-90°	5,362	99.9%
90-180°	6	0.1%
0-180°	5,368	100.0%



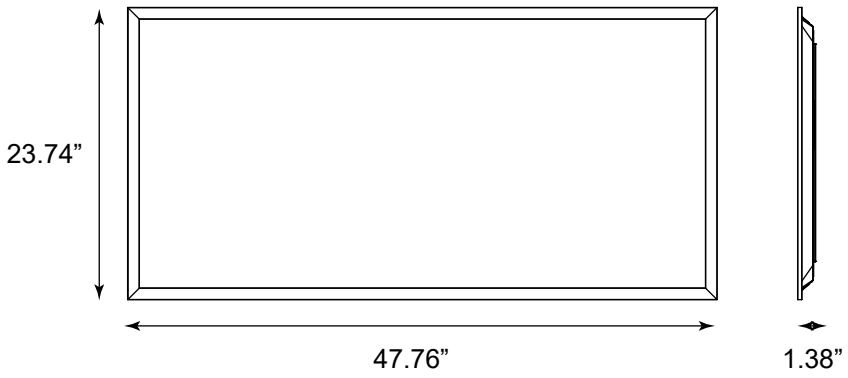
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Branch Wiring Options

When ordering a cords, use the following suffix choices.
Example: 05-PNLSR24-543L-5CCT-6W3
Note: Cords & flexible metal conduits 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 (standard)
6W6	6’ whip - 6 conductor (black/white/green/red/purple/pink)	Dimming & EM driver

Dimensional Drawings



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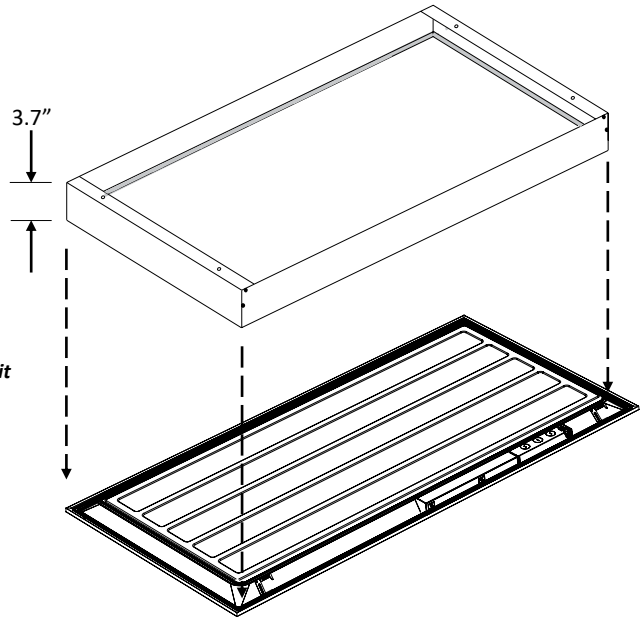
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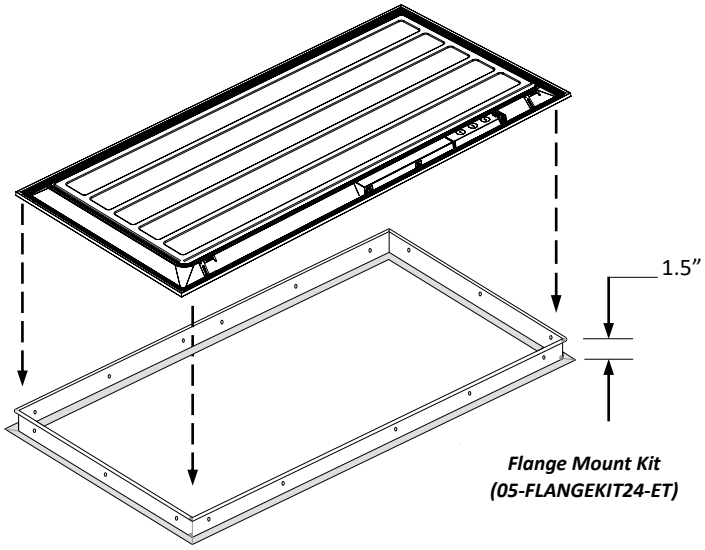
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Mounting Means - Order separately

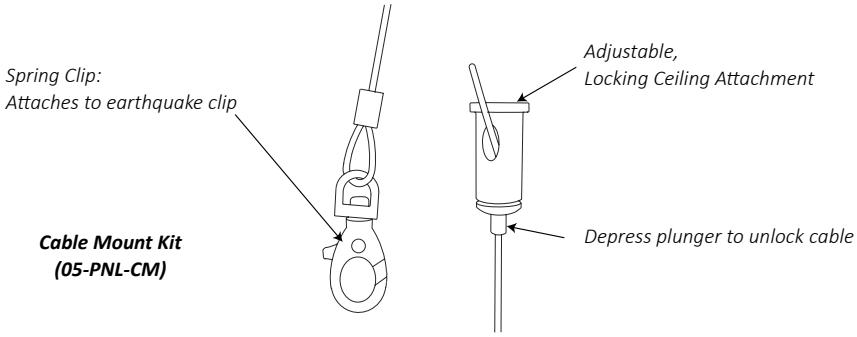
- *Optional Surface Mounting Kit (05-SMKT-24S) mounts below the ceiling.*
- *Optional flange mounting kits provide for recessed installation on plaster or other hard ceilings. Attach the Flange Mount Kit (05-FLANGEKIT24-ET) to ceiling joists or other stationary structures, and the panel is mounted flush to the ceiling.*
- *Optional cable mounting kits provide additional security, as well as suspended mounting. Attach one end of the Cable Mount Kit (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-24S)



Flange Mount Kit (05-FLANGEKIT24-ET)



Cable Mount Kit (05-PNL-CM)