

- For new construction or fluorescent troffer
 retrofits
- 0-10 VDC Dimmable
- 5 Year Warranty
- No more ballasts!
- Multiple sizes and color temperatures





Product Specifications

FOS LED Flat Panels deliver high lumen output (up to 91 lumens per watt) with exceptional 82+ CRI color rendering. The panels are constructed of high grade aluminum backing for maximum heat dissipation and a Samsung light-guide/diffuser with >80% light delivery.

Dimming is achieved via a 0-10VDC signal connection that may be integrated with compatible wall dimmers or other light control systems. IES and LM79 reports are available upon request.

Install via direct replacement of existing fluorescent troffers in drop ceilings, or with an optional surface mount or suspended mount kit.

Model (FOS-PNL-) 14-40W- xx 14-50W- xx 22-40W- xx 22-55W- xx 24-50W- xx 24-63W- xx Input Voltage Universal 100-277 VAC, 50/60 Hz (0-10VDC Dimming included) 63 Watts 40 Watts 50 Watts 40 Watts 55 Watts 50 Watts Power 2' x 2' Size 1' x 4' 2' x 4' **Delivered Light** 3,480 lm 4,377 lm 3,600 lm 4,900 lm 4,600 lm 5,496 lm 90 LPW 91 LPW 87 LPW 87 LPW 87 LPW Lumen Efficacy 90 LPW Lifetime/Warranty L70 > 50,000 hrs, 5 Year Warranty **Color Temperature** xx=40 for 4,000K / xx=50 for 5,000K

Performance Specifications



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LED Panels



LED Panels vs. Fluorescent Troffers:

While fluorescent tube lights have reduced energy consumption for commercial and retail applications, the massive growth and improvement in LED lighting technology will no doubt soon make fluorescent lighting obsolete. In this short analysis, we will look at some general energy and electricity comparisons for a typical fluorescent light fixture as compared to our FOS-2x4-50Watt LED light panel.

	Fluorescent Fixture	LED Panel
Components	Tubes, Troffer, Ballast, LED Panel, Diffuser, Starter Power Supply	
Lifetime	20,000 hours	50,000 hours
Dimmable?	NO	YES
CRI	70-90	>80
Mercury?	Yes	No
Light Output	Heavy losses	Directed output
Lighting Heat Load Savings		2.7X

Installation:

A fluorescent light troffer is typically installed as a recessed light fixture in retail space applications. No extra installation efforts are required to install an LED light panel. In fact, there are less wiring and installation steps necessary!

Fluorescent performance depends on many factors including the type of starter used as well as the amount of time between restarts. Because light output of a fluorescent bulb is omnidirectional, roughly 33% of the total rated lumens output ever reaches its target. In addition to the electrical savings, LED lighting typically offers a 2.7X reduction in heat load as compared to fluorescent lighting.



<u>Savings:</u>

So what's the bottom line? Based on the difference between purchasing a new fluorescent troffer versus an LED Panel, expect to save between \$24-\$35 dollars per fixture per year. Additional air conditioning savings will also be realized due to reduced lighting heat loads. Add dimming to the LED panels and you can further increase electricity savings by another 30-50%,

Higher CRI LED lighting has also been shown to increase productivity in workplaces compared to fluorescent lighting.



Fluorescent Troffer	LED Panel	
152 Watts	56 Watts	
\$24-\$35 / year Savings Per Fixture		

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