

Cree® T8 Series

4' LED Linear Lamp



THE MOVE TO LED JUST GOT A WHOLE LOT SIMPLER.

Simple Installation

The easiest way to upgrade your fluorescent T8 electronic ballasts,* the Cree® LED T8 Series can be installed by simply changing a lamp, making it a perfect upgrade option for spaces such as classrooms, healthcare facilities and commercial office spaces where energy savings and long life are critical.

Ultimate Flexibility

The Cree LED T8 Series is universally compatible with most existing electronic T8 ballasts, including instant start, programmed/rapid start and dimmable fluorescent ballasts, providing a level of flexibility unseen in the industry.

Unrivaled Light Quality

The Cree LED T8 Series is powered with Cree TrueWhite® Technology and is the only LED T8 lamp compatible with existing fluorescent ballasts available with 90 CRI. The Cree LED T8 mimics the light distribution of fluorescent lamps without the flickering and inadequate dimming of traditional sources.

Instant Energy Savings & Reduced Maintenance

The Cree LED T8 Series provides significant maintenance savings and virtually eliminates costly relamping. Offering up to 110 lumens per watt, the Cree LED T8 Series can immediately save as much as 30 percent in energy costs and provides payback in less than 2 years, when compared to 32W fluorescent T8s.

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REVOLUTIONARY DESIGN. UNBEATABLE COMPATIBILITY.

Easy to install, the Cree® LED T8 lamp fits into existing linear fluorescent fixtures, making it an ideal solution for any retrofit lamp application. The Cree LED T8 Series lamp delivers up to 2800 lumens of enhanced-spectrum 90 CRI light while achieving up to 110 lumens per watt. The Cree LED T8 lamp is available in 3500K and 4000K color temperatures and operates on existing fluorescent T8 electronic ballasts.

ORDERING INFORMATION		
Product Number	Description	UPC
LEDT8R-48-21L-35K-B1	Linear LED T8 Replacement Lamp, 4 Ft, 2100 Lm, 3500K	849665009450
LEDT8R-48-21L-40K-B1	Linear LED T8 Replacement Lamp, 4 Ft, 2100 Lm, 4000K	849665009474
LEDT8R-48-17L-35K-B1	Linear LED T8 Replacement Lamp, 4 Ft, 1700 Lm, 3500K	849665009375
LEDT8R-48-17L-40K-B1	Linear LED T8 Replacement Lamp, 4 Ft, 1700 Lm, 4000K	849665009399

SAVINGS SUMMARY	
Existing Product	Replacement Product
3-lamp 32W T8 Fluorescent Quantity: 100	3-lamp Cree LEDT8R-48-21L Quantity: 100
Payback: 1.91 Years	
Payback (with \$5.00 rebate): 1.12 Years	
Average Annual Operating Cost Savings: \$1,883	
Annual Energy Savings: 30.8%	
In this summary, Cree did a one-to-one replacement with the following factors: 16/7 operating hours, \$0.11/kWh energy cost (national average) and a 0.88 ballast factor.	

PERFORMANCE SUMMARY	
Utilizes Cree TrueWhite® Technology	CRI: 90+
Limited Warranty†: 5 years	CCT: 3500K and 4000K
Efficacy: 90-110 LPW	Input Voltage: 120-480 VAC, determined by ballast
Lamp Delivered Light Output (1 Lamp): 1700-2800 lumens per LED lamp**	Lifetime: Designed to last 50,000 hours L70
Lamp Watts: 18.5**	Controls: Dimmable (ballast dependent)
System Power: 20W	Mounting: Linear fluorescent fixtures

PRODUCT SPECIFICATIONS	
<p>Cree TrueWhite® Technology A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy — a true no compromise solution.</p>	<p>Optical System</p> <ul style="list-style-type: none"> Specialized lens design for optimal light distribution and smooth visual effect Measured and designed to achieve optimal light performance in existing fluorescent troffers
<p>Construction & Materials</p> <ul style="list-style-type: none"> Shatterproof design Does not contain mercury 	<p>Electrical System</p> <ul style="list-style-type: none"> Integral, high-efficiency driver and power supply Utilizes existing fluorescent ballast Power Factor: = 0.9 nominal Input Power: Ballast dependent Input Voltage: 120-277V, 347V, 480V, 50/60Hz Battery Backup: Operates on emergency ballasts that support 25W/48T8/HF fluorescent lamps Temperature Rating: Designed to operate in temperatures -25°C to 45°C Total Harmonic Distortion: < 20% Not for use with T12 magnetic or electronic ballasts Not for use with T8 magnetic or HO ballasts Not for use or to be wired to "mains voltage"
<p>Regulatory & Voluntary Qualifications</p> <ul style="list-style-type: none"> UL Listed to UL 1993, UL 8750, CSA C22.2 No. 1993-12 & CSA C22.2 No. 250.13-12 DLC qualified (2100 lumen version only) Suitable for damp locations Designed for indoor use 	
<p>Controls</p> <ul style="list-style-type: none"> Dimmable (ballast dependent) 	

* Operates on ballasts that support 25W/48T8/HF fluorescent lamps

** Varies by ballast

† See www.cree.com/lighting/products/warranty for warranty terms

