

DIRECTLED^{FL}

The LED Fluorescent Replacement Solution.

Tired of the hassles associated with traditional fluorescent tubes? Complete your total transition to LED Technology with the EarthLED DirectLED FL Series. The DirectLED FL series is a replacement for traditional T8/T10/T12 fluorescent tubes allowing you to bring LED technology to environments never before possible.

Volume Pricing is Available! E-Mail for a customized quote.

Key DirectLED FL Series Benefits:



- **Long Life:** 50,000 + hour lifespan exceeds even the highest quality fluorescents tubes
- **Extreme Efficiency:** Over 80% more efficient than traditional fluorescents tubes
- **Flicker-Free Lighting:** Eliminate eye strain and headaches associated with fluorescents lighting
- **Shatter-Proof Design:** Will not break even if dropped
- **Double Energy Savings:** DirectLED FL tubes require no ballast saving even more energy
- **No Mercury Inside:** Allows the use of tube lighting when mercury contamination is not an option
- **Flexible Voltage:** Use tube lighting in AC 85~277V or DC 12V Input Environments
- **No Interference:** Perfect for settings where precise instruments can be disturbed by fluorescent tubes
- **Instant Starting:** Starts right away no matter the temperature or conditions

DirectLED FL Series for General Illumination

EarthLED FL series are well-suited for use anywhere: homes, offices, museums, galleries, shop windows, hotels, restaurants, meeting rooms, just like conventional fluorescent lights.



DirectLED FL Series for Task Lighting

Task lighting is required for visually intensive environments, such as reading, writing or some kitchen countertop use. The great light quality of DirectLED FL makes your task lighting more effective and easier on your eyes. Locating DirectLED FL underneath your cabinets, shelves, office cubicles etc, can allow you to achieve an ideal task lighting setup. Furthermore, the linear profile of DirectLED FL is also unobtrusive to the design environment allowing them to be integrated anywhere a standard fluorescent is used.



DirectLED FL Series for Display Lighting and Signage

Good light quality and low heat generation makes DirectLED FL a great green alternative for display lighting. No longer worry about heat damage to your valuable merchandise displayed on your counter. You will also be surprised at the ideal display light cast by the quality light output of the DirectLED FL Series.



DirectLED FL is also an excellent candidate for signage back lighting. Since DirectLED FL series feature high output, only a small quantity of DirectLED FL tubes need to be utilized on a even a large billboard or sign. DirectLED FL allows you to instantly make your advertising and messaging energy efficient and Earth friendly.

Built to a Higher Standard.

Since introducing LED based fluorescent tube replacements more than a year ago, we've seen plenty of low quality LED tubes hit the market. Unfortunately these are cheaply made at best and dangerous at worse. All of our DirectLED FL products are built to withstand the unique daily demands of tube lighting.

Lets take a look at our DirectLED FL side by side with some of the other products you may have seen (DirectLED FL on right, low cost generic competitor on left):



Most LED Tubes on the market utilize inexpensive plastic tubing shoddily fitted over low quality end caps. This leads to a product that feels quite flimsy. You can even notice this competitor using a plastic film to hide the electronics inside the tube. DirectLED FL uses a solid aluminum heatsink backing, frosted tubing and solid endcaps. The DirectLED FL series is completely flame retardant and built to CE and UL compliant standards.



The top side of the tube reveals the competition uses low quality plastic tubing creating a dismal & dirty looking light. DirectLED FL uses a proprietary frosted tubing to better duplicate the look of traditional fluorescent tubes. We dare you to tell the difference between a DirectLED FL and standard fluorescent tube once installed!



Things aren't any better on the inside either, notice the LED circuit board that "floats" freely in the tube with no provisions for heat dissipation. The tubing itself is very flexible and bends easily. DirectLED FL tubes are rigid and do not flex. In short DirectLED FL is built for demanding real world use. The competition? Who knows!

Ballast Free Installation For Even More Power Savings.

The DirectLED FL Series does not require the use of a ballast thus allowing you to save even more energy. As an added benefit there is no ballast to break or fail ensuring even longer life. No ballast also means that the DirectLED FL can be used in T8, T10 or T12 fixtures for the ultimate in compatibility. Installation is simple but does require basic wiring knowledge. Simply disconnect or bypass the ballast during installation to install the DirectLED FL. *If you do not feel comfortable with this type of basic wiring, please call an electrician. *

NEW! DirectLED Fixture allows the use of DirectLED FL Tubes Outdoors

Now available! The DirectLED Fixture is an IP65 rated outdoor fixture for DirectLED FL 4 Foot (120cm) tubes. Made from durable and shatter resistant ABS plastic, the DirectLED Fixture allows you to install LED Fluorescent Tube replacements in the harshest of outdoor environments. Best of all, since the DirectLED Fixture uses no ballast, installation is a breeze.

Expand the horizons of your project today with the DirectLED FL Fixture.



Retrofitting T8/T10/T12 Tubes? We've Got you Covered.

The DirectLED FL Series is available in T8/T10/T12 compatible versions as well as several different lengths to allow you to select the most appropriate level of light output and performance for your application.

DirectLED FL - T8/T10/T12 Tube Replacement

DirectLED FL Utilizes large arrays of high power LEDs to provide up to 2400 lumens (length dependant) of quality, flicker-free light. DirectLED FL is an economical way to replace commonly used fluorescent tubes in your home or business.

Specifications and Dimensions:

- Power Consumption:
 - 8 Watts (2 Ft. / 60 CM)
 - 15 Watts (4 Ft. / 120 CM)
 - 24 Watts (6 Ft. / 183 CM)
- Light Engine:
 - 180 SuperBrite LED (2 Ft. / 60 CM)
 - 300 SuperBrite LED (4 Ft. / 120 CM)
 - 420 SuperBrite LED (6 Ft. / 183 CM)
- Input Voltage: AC 110~277V or 12V DC
- Luminous Flux (Cool White):
 - ~800 Lumens (2 Ft. / 60 CM)
 - ~1500 Lumens (4 Ft. / 120 CM)
 - ~2400 Lumens (6 Ft. / 183 CM)
- Color Temperature: 3000 K (Warm), 4100K (Neutral), 5800 K (Cool)
- Lifespan: > 50,000 Hours (MTBF)
- Operating Temperature: -4 ~ 104°F (-20 ~ 40°C)
- Construction: impact resistant plastic & integrated heat sink
- Physical Dimensions:
 - Diameter - 1.18 Inches (3 CM)
- Base Types Available: Bi Pin T8, T10, T12 Compatible

Cost to run for one year*:

- \$2.34 (2 Ft. / 60 CM)
- \$4.38 (4 Ft. / 120 CM)
- \$7.01 (6 Ft. / 183 CM)

Calculated assuming 8 Hours a day operation, 365 Days a Year with \$.10 KWh Electricity Cost



DirectLED FL - 2 Ft.
Replaces 25 Watt Fluorescent

DirectLED FL - 4 Ft.
Replaces 40 Watt Fluorescent

DirectLED FL- 6 Ft.
Replaces 75 Watt Fluorescent



NEW! DirectLED FL Outdoor Fixtures

Install your DirectLED FL T8/T10/T12 fluorescent replacements outdoors with our specially designed IP65 Water Resistant Fixture!

- IP65 Rated Fixture is suitable for the harshest of outdoor environments
- Available in One or Two Tube Configurations
- Shatter resistant ABS and Polycarbonate construction
- Ballast free design saves energy and simplifies installation
- Allows the use of LED Tube technology in areas you never thought possible.



**DirectLED Fixture 4 Ft.
Single Tube**

Currently available via Special Order.

**DirectLED FL - 4 Ft.
Dual Tube**

Currently available via Special Order.

**For More Information please visit:
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