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Sunco Lighting T8_HY_F

Sunco T8 LED Tube Light Bulbs (Model T8_HY_F) User Manual

Model: T8_HY_F | Brand: Sunco Lighting

1. Product Overview

The Sunco T8 LED Tube Light Bulbs are designed as a direct replacement for traditional fluorescent tubes. These 4-foot (48-inch) bulbs feature a Hybrid Type A+B design, allowing for installation with or without an existing fluorescent ballast. They provide 2400 lumens of 5000K Daylight illumination while consuming 20 watts of power. The bulbs are equipped with a frosted lens and are ETL certified, ensuring reliable performance and safety.

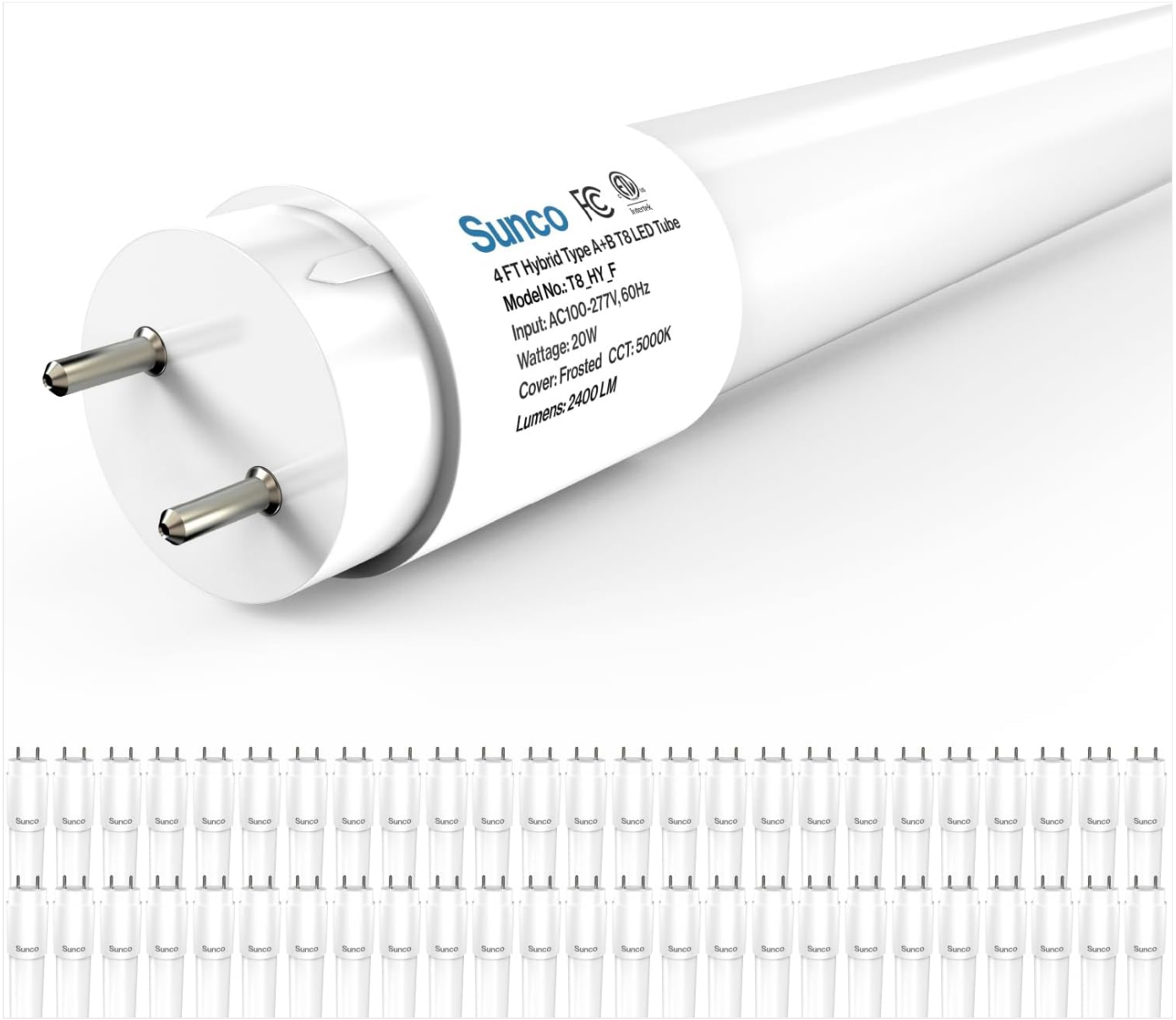


Image 1.1: Sunco T8 LED Tube Light Bulb, showing the G13 base and frosted lens.



Image 1.2: Close-up view of the T8 LED tube end, displaying model number, input voltage, wattage, color temperature, and lumen output.

2. Safety Information

- **WARNING:** Always turn off power at the circuit breaker before inspecting, installing, or removing the fixture. Failure to do so may result in electric shock or death.
- Do not attempt to modify the bulb or its components. Any modifications may void the warranty and create safety

hazards.

- Ensure the installation environment is dry and free from excessive moisture unless the fixture is specifically rated for damp or wet locations.
- If you are unsure about the installation process, consult a qualified electrician.
- Handle glass tubes with care to prevent breakage.
- These bulbs are non-dimmable. Do not connect to dimming circuits.

3. Setup and Installation

The Sunco T8 LED Tube Light Bulbs feature a Hybrid Type A+B design, offering flexibility for installation. You can either use them with an existing compatible fluorescent ballast (Type A) or bypass the ballast and wire them directly (Type B).

3.1. Installation Types

1. **Type A (Plug-and-Play with Ballast):** This method utilizes your existing fluorescent ballast. Simply remove the old fluorescent tube and insert the LED tube. Ensure your ballast is compatible by checking the list below.
2. **Type B (Ballast Bypass - Direct Wire):** If your existing ballast is faulty or you prefer a direct wire setup for increased efficiency, you can bypass the ballast. This requires re-wiring the fixture to connect the power directly to the lamp holders. This method can be done with either single-ended or double-ended wiring.



Image 3.1: Wiring diagrams illustrating Type A (with ballast), Type B single-ended, and Type B double-ended connections.

3.2. Wiring Configurations (Type B - Ballast Bypass)

1. **Single-Ended Wiring:** Power (Live and Neutral) is connected to one end of the LED tube. The other end is not wired.
2. **Double-Ended Wiring:** Power (Live and Neutral) is connected to both ends of the LED tube, with Live on one end and Neutral on the other.

Important: For Type B installations, ensure the fixture is properly re-wired to bypass the ballast. If you are not comfortable with electrical wiring, please consult a qualified electrician.



Image 3.2: Visual representation of single-ended and double-ended wiring for direct wire installations.



Image 3.3: A technician installing a T8 LED tube into a fixture.

3.3. Compatible Ballast List (for Type A Installation)

Before installing the LED tubes in Type A (plug-and-play) mode, verify that your existing fluorescent ballast is compatible with the Sunco T8 LED tubes. Refer to the list below for common compatible ballast brands and models. If your ballast is not listed, it is recommended to perform a Type B (ballast bypass) installation or consult Sunco Lighting support.



Image 3.4: A comprehensive list of compatible ballast brands and models for Type A installation.

4. Operating Instructions

Once installed, operating the Sunco T8 LED Tube Light Bulbs is straightforward.

- Ensure the power supply to the fixture is turned on at the wall switch or circuit breaker.
- The LED tubes will illuminate instantly, providing full brightness.

- These bulbs are designed for consistent, full brightness and are**not dimmable**. Do not attempt to use them with dimmer switches.



Image 4.1: An office environment showcasing the wide 160° beam angle of the T8 LED tubes, providing uniform illumination.

5. Maintenance

Sunco T8 LED Tube Light Bulbs are designed for long-term, maintenance-free operation.

- **Cleaning:** To clean the tubes, ensure the power is off and the tubes are cool. Gently wipe with a soft, dry, or slightly damp cloth. Avoid abrasive cleaners or solvents.
- **Replacement:** With an average lifespan of 50,000 hours, these LED tubes require infrequent replacement. Replace tubes only when they reach the end of their operational life.
- **Inspection:** Periodically inspect the tubes and fixture for any signs of damage or loose connections.

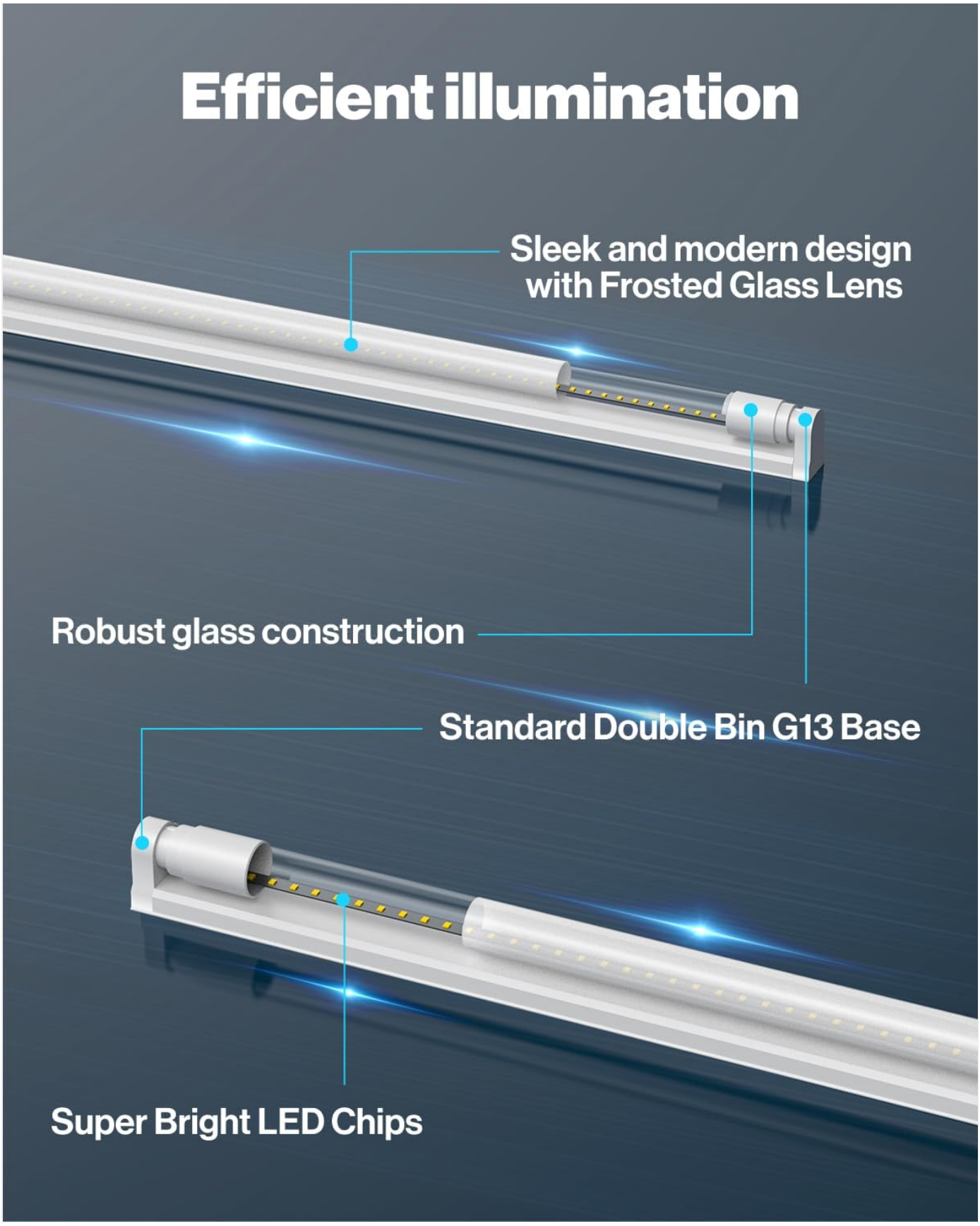


Image 5.1: Internal components of the T8 LED tube, showing robust glass construction, super bright LED chips, and a standard G13 base.

6. Troubleshooting

If you encounter issues with your Sunco T8 LED Tube Light Bulbs, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Bulb does not light up.	◦ No power to the fixture. ◦ Incorrect wiring (for Type B). ◦ Incompatible or faulty ballast (for Type A). ◦ Loose connection.	◦ Check circuit breaker and wall switch. ◦ Verify wiring according to Type B instructions. ◦ Check ballast compatibility (refer to Section 3.3) or consider ballast bypass. ◦ Ensure tubes are securely seated in lamp holders.
Bulb flickers.	◦ Incompatible or failing ballast (for Type A). ◦ Loose connection. ◦ Voltage fluctuations.	◦ Bypass the ballast (Type B installation). ◦ Ensure tubes are securely seated. ◦ Consult an electrician to check power supply stability.
Reduced brightness.	◦ Dust or dirt on the tube. ◦ End of product life.	◦ Clean the tube gently (refer to Section 5). ◦ Replace the tube.

If the problem persists after attempting these solutions, please contact Sunco Lighting customer support.

7. Specifications

Feature	Detail
Brand	Sunco Lighting
Model Number	T8_HY_F
Light Type	LED
Bulb Shape Size	T8
Bulb Base	G13
Wattage	20 Watts
Brightness	2400 Lumens
Color Temperature	5000 Kelvin (Daylight White)
Voltage	120-277 Volts (Accepted frequency: 50-60 Hertz)
Incandescent Equivalent	150 Watts
Beam Angle	160°
Average Life	50,000 Hours
Material	Glass

Feature	Detail
Lens Finish	Frosted
Indoor/Outdoor Usage	Indoor (Damp Location Rated)
Certifications	ETL, FCC, RoHS
Item Weight	26.7 pounds (for 50-pack)
Package Dimensions	49.7 x 16 x 8.2 inches
UPC	840360602007

8. Warranty and Support

Sunco Lighting provides a **7-Year Protection** for these T8 LED Tube Light Bulbs. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your product, please contact Sunco Lighting customer support. You can typically find contact information on the product packaging or the official Sunco Lighting website.

Sunco Lighting is based in the USA and offers knowledgeable support specialists to assist you.

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