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Philips LED 452052

Philips LED InstantFit T8 Tube Light Bulb User Manual

Model: 452052

1. Introduction

This manual provides essential information for the safe and effective use of your Philips LED InstantFit T8 Tube Light Bulbs. These bulbs are designed as a direct replacement for traditional fluorescent T8 tubes, offering energy efficiency and long-lasting performance.
The Philips LED InstantFit T8 tube lights are a fast and easy way to upgrade your lighting. They are designed for plug-and-play installation, requiring no rewiring in compatible fixtures. These 3-foot (36-inch) bulbs provide 1100 lumens of soft white light at 3000 Kelvin, consuming only 10.5 watts while delivering light equivalent to a 25-watt fluorescent bulb.

2. Safety Information

- **WARNING: Risk of Electric Shock.** Always turn off power to the fixture at the circuit breaker before inspection, installation, or removal.
- Do not install this lamp in a pre-heat luminaire.
- This lamp operates only with an electronic ballast. Ensure your fixture has a compatible electronic ballast.
- Do not use with dimmers unless explicitly stated as compatible on the product packaging.
- Suitable for indoor use only.
- Do not bend the tube during installation or handling.
- If the lamp or fixture operates abnormally (flickering, buzzing, etc.), turn off power and contact a qualified electrician.
- This product is UL Listed, ensuring it meets specific safety standards.

3. Product Overview

The Philips LED InstantFit T8 Tube Light Bulb is designed for easy replacement of traditional fluorescent tubes, offering superior light quality and energy savings.



Image 3.1: Philips LED InstantFit T8 Tube Light Bulb. This image shows the full length of the LED tube with its G13 bi-pin base.



Image 3.2: Dimensions and Base Type. The image illustrates the 3-foot length and 1-inch diameter of the T8 tube, highlighting the G13 medium bi-pin base.

Key Features:

- **InstantFit Technology:** Designed for plug-and-play installation in fixtures with compatible electronic ballasts, eliminating the need for rewiring.

- **Energy Efficient:** Uses 10.5 watts to produce light equivalent to a 25-watt fluorescent bulb, reducing energy consumption by approximately 50%.
- **Long Lifespan:** Provides up to 40,000 hours of expected life, significantly reducing the frequency of bulb replacements.
- **Soft White Light:** Emits 3000 Kelvin light, creating a comfortable and inviting atmosphere.
- **High Color Rendering Index (CRI):** With a CRI of 83, these bulbs offer exceptional clarity and accurate color representation.
- **Mercury-Free:** Environmentally friendly, as they do not contain mercury.
- **EyeComfort Certified:** Meets strict criteria for flicker, strobe, glare, and color rendition to ensure comfortable light for your eyes.



Image 3.3: InstantFit T8 Benefits. This graphic lists key advantages such as easy installation, no mercury, energy efficiency, long lifespan, no infrared or ultraviolet emissions, bright flicker-free light, and cool-to-touch operation.

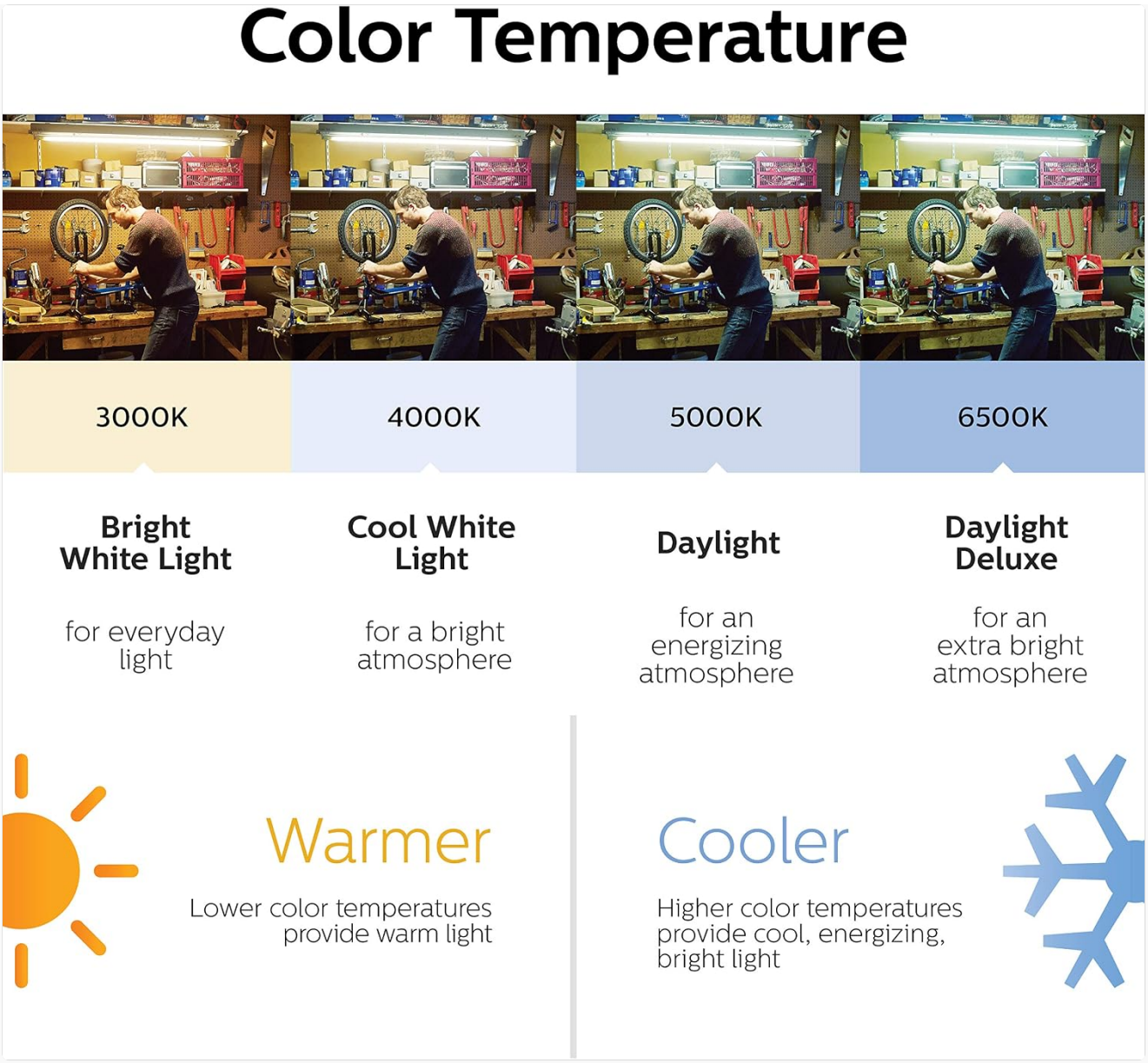


Image 3.4: Philips EyeComfort Light. This image highlights the EyeComfort certification, indicating the light is designed to be gentle on the eyes by minimizing flicker, strobe, glare, and ensuring good color rendition.

4. Setup and Installation

The Philips LED InstantFit T8 tube lights are designed for simple, plug-and-play installation in compatible fixtures. No rewiring of the fixture is necessary.

Compatibility Check:

These LED tubes are compatible with most instant start electronic ballasts. It is crucial to verify that your existing fluorescent fixture uses an electronic ballast. If your fixture uses a magnetic ballast, these LED tubes will not function correctly, and a ballast bypass or replacement would be required (which is outside the scope of InstantFit installation).



Image 4.1: InstantFit T8 Compatibility. This diagram illustrates that the Philips InstantFit T8 LED tube is designed to work with T8 electronic ballasts, replacing T8 fluorescent bulbs and fitting all standard sockets.



Image 4.2: Philips LED Tube Compatibility Chart. This chart helps identify the correct Philips LED tube for various fixtures, detailing ballast compatibility, shape, lumens, and lifespan for UniversalFit, InstantFit T8, InstantFit T12, and MainsFit options.

Installation Steps:

1. **Turn Off Power:** Locate the circuit breaker controlling the light fixture and switch it to the OFF position. Verify that the power is off by attempting to turn on the light switch.
2. **Remove Existing Fluorescent Tubes:** Carefully rotate the existing fluorescent T8 tubes 90 degrees and gently pull them out of the fixture sockets.
3. **Insert Philips LED T8 Tubes:** Align the bi-pin connectors of the Philips LED T8 tube with the sockets in the fixture. Gently push the tube into the sockets and rotate it 90 degrees until it locks securely into place. Ensure both ends are firmly seated.
4. **Restore Power:** Return to the circuit breaker and switch the power back to the ON position.
5. **Test:** Turn on the light switch to confirm the LED tubes are functioning correctly.

5. Operating Instructions

Operating your Philips LED InstantFit T8 Tube Light Bulbs is straightforward:

- Once installed, simply use your existing wall switch to turn the lights ON and OFF.
- The LED tubes will illuminate instantly at full brightness without any flickering or warm-up time.
- These bulbs are not designed for use with dimmers unless the fixture and ballast are specifically rated for dimmable LED T8 tubes and the bulbs themselves are marked as dimmable. Using them with incompatible dimmers may cause damage or malfunction.

6. Maintenance

Philips LED InstantFit T8 Tube Light Bulbs require minimal maintenance due to their long lifespan and durable design.

- **Cleaning:** Ensure power is OFF at the circuit breaker before cleaning. Use a soft, dry, or slightly damp cloth to wipe the surface of the tube. Do not use abrasive cleaners or solvents.
- **Replacement:** With an expected life of up to 40,000 hours, frequent replacement is not anticipated. When replacement is necessary, follow the installation steps in Section 4.
- **Disposal:** These LED tubes are mercury-free. Dispose of them according to local electronic waste regulations. Do not dispose of with general household waste.

7. Troubleshooting

If you encounter issues with your Philips LED InstantFit T8 Tube Light Bulbs, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power to the fixture. Bulb not properly seated. Incompatible ballast.	Check circuit breaker and wall switch. Ensure the tube is firmly seated and rotated into the sockets. Verify fixture has a compatible electronic ballast. If not, the bulb will not work.
Light flickers or buzzes.	Incompatible or failing ballast. Loose connection.	Ensure ballast is compatible and functioning correctly. A failing ballast may need replacement. If flickering persists, consult a qualified electrician. Check that the tube is securely installed.
Light turns on then off after a short period.	Incompatible ballast or ballast protection mode activated.	This behavior often indicates an incompatible ballast. The InstantFit tubes require an electronic ballast. If your fixture has an older magnetic ballast, these tubes will not work.
Light is dimmer than expected.	Incorrect bulb type for application. Dust accumulation.	Ensure the lumen output (1100 lumens) is suitable for your lighting needs. Clean the tube surface as described in the Maintenance section.

If these troubleshooting steps do not resolve the issue, please refer to the Warranty and Support section for further

assistance.

8. Specifications

Feature	Detail
Brand	Philips LED
Model Number	452052
Light Type	LED (T8 Tube)
Wattage	10.5 Watts
Incandescent Equivalent Wattage	25 Watts
Brightness	1100 Lumens
Color Temperature	3000 Kelvin (Soft White)
Color Rendering Index (CRI)	82
Bulb Shape Size	T8
Bulb Base	G13 (Medium Bi-Pin)
Length	3 feet (36 inches)
Voltage	347 Volts (Operating Range)
Special Feature	Ballast Needed (Electronic Ballast Compatible)
Specific Uses	Indoor use only
Estimated Lifespan	Up to 40,000 hours
Item Weight	7.8 ounces
Product Dimensions	1"W x 44"H (Note: 44" likely refers to packaging or a slightly longer variant, actual bulb is 36")

9. Warranty and Support

Warranty Information:

This Philips LED InstantFit T8 Tube Light Bulb comes with a**6-year warranty**. Please refer to the product packaging for complete details regarding warranty terms and conditions.

Additional Support:

For further assistance, technical support, or to view the official user guide in PDF format, please visit the Philips Lighting support website or refer to the document linked below:

Download Official User Guide (PDF)

You may also contact Philips customer service directly for product-specific inquiries.

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