

PHILIPS 458422

PHILIPS LED PL-C/T Lamp (Model 458422) Instruction Manual

Brand: PHILIPS | Model: 458422

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your PHILIPS LED PL-C/T Lamp, Model 458422. Please read this manual thoroughly before installation and operation, and retain it for future reference. This LED lamp is designed as an energy-efficient replacement for traditional compact fluorescent lamps (CFLs) in compatible fixtures.

Safety Information

- **Electrical Hazard:** Always disconnect power before installing, removing, or servicing the lamp.
- **Compatibility:** This lamp is designed for use with electronic ballasts. Verify ballast compatibility before installation. Incompatible ballasts may cause damage to the lamp or fixture.
- **Damp Location Rated:** Suitable for use in damp locations. Do not use in direct water exposure or wet locations.
- **Operating Temperature:** Ensure the operating environment is within the specified temperature range for the lamp.
- **Disposal:** Dispose of the lamp according to local regulations. Do not dispose of with general household waste.

2. PRODUCT OVERVIEW

The PHILIPS LED PL-C/T Lamp (Model 458422) is a 10.5W LED bulb designed to replace 26W CFL lamps. It features a 4-pin GX24Q base and provides 3500 Kelvin (Neutral White) light with 1200 lumens brightness. Its "InstantFit" technology ensures compatibility with existing electronic ballasts, simplifying the upgrade process.



Figure 2.1: PHILIPS LED PL-C/T Lamp, Model 458422. This image shows the overall design of the LED lamp, highlighting its compact form factor and the base connector.



Figure 2.2: Side view of the PHILIPS LED PL-C/T Lamp. This image highlights the "InstantFit" label, indicating its compatibility with electronic ballasts.

Key Features:

- **Energy Efficient:** 10.5 Watts, replacing 26 Watt CFLs.

- **Light Output:** 1200 Lumens, 3500 Kelvin (Neutral White) color temperature.
- **Base Type:** 4-Pin GX24Q.
- **InstantFit Technology:** Compatible with electronic ballasts.
- **Damp Location Rated:** Suitable for use in damp environments.
- **Long Lifespan:** Average life of 50,000 hours.

3. SETUP & INSTALLATION

Follow these steps for proper installation of your PHILIPS LED PL-C/T Lamp:

1. **Power Disconnection:** Before beginning installation, ensure the power supply to the fixture is completely turned off at the circuit breaker.
2. **Remove Existing Lamp:** Carefully remove the existing CFL lamp from the fixture. Allow it to cool if it has been recently in use.
3. **Verify Ballast Compatibility:** Confirm that the fixture contains an electronic ballast compatible with this LED lamp. Refer to the fixture's specifications or consult a qualified electrician if unsure. This lamp is not designed for use with magnetic ballasts.
4. **Insert LED Lamp:** Align the 4-pin GX24Q base of the PHILIPS LED PL-C/T Lamp with the socket in the fixture. Gently push and twist (if applicable) until the lamp is securely seated. Do not force the lamp into the socket.
5. **Restore Power:** Once the lamp is securely installed, restore power to the fixture at the circuit breaker.
6. **Test Operation:** Turn on the light switch to verify proper operation of the LED lamp.



Figure 3.1: The 4-pin GX24Q base of the LED lamp. This image illustrates the specific connector type, crucial for ensuring compatibility with the fixture's socket.

4. OPERATING INSTRUCTIONS

The PHILIPS LED PL-C/T Lamp operates similarly to traditional lamps once installed. Simply use the existing light switch to turn the lamp on or off. The "InstantFit" design ensures immediate illumination without warm-up time or flickering, characteristic of some CFLs.

- **Instant On:** The lamp provides full brightness immediately upon switching on.
- **Dimmability:** This lamp is generally not designed for use with dimmers unless explicitly stated on the product packaging or specifications. Using it with an incompatible dimmer may cause damage or malfunction.
- **Environmental Conditions:** Ensure the lamp is used within its specified damp location rating and temperature range.

5. MAINTENANCE

LED lamps require minimal maintenance due to their long lifespan. However, occasional cleaning and proper handling are recommended.

- **Cleaning:** Ensure the power is off and the lamp is cool before cleaning. Wipe the lamp with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners or solvents.
- **Replacement:** Due to the long lifespan of LED lamps, replacement is infrequent. When replacement is necessary, follow the installation steps in Section 3, ensuring power is disconnected.
- **Inspection:** Periodically inspect the lamp and fixture for any signs of damage or wear.

6. TROUBLESHOOTING

If you encounter issues with your PHILIPS LED PL-C/T Lamp, refer to the following common troubleshooting steps:

- **Lamp Does Not Turn On:**
 - Check if the power supply to the fixture is on.
 - Ensure the lamp is securely seated in the socket.
 - Verify that the fixture's ballast is compatible and functioning correctly.
 - Test the lamp in another compatible fixture, if available, to rule out a fixture issue.
- **Lamp Flickers or Shuts Off Intermittently:**
 - Confirm ballast compatibility. Incompatible ballasts can cause flickering.
 - Ensure the lamp is not being used with an incompatible dimmer switch.
 - Check for loose connections in the fixture.
- **Reduced Brightness:**
 - Ensure the lamp is clean and free from dust or debris.
 - Verify the lamp is receiving adequate power.

If these steps do not resolve the issue, contact PHILIPS customer support or a qualified electrician.

7. SPECIFICATIONS

Attribute	Value
Brand	PHILIPS
Model Number	458422
Light Type	LED
Wattage	10.5 Watts
Incandescent Equivalent	26 Watts
Brightness	1200 Lumens
Color Temperature	3500 Kelvin (Neutral White)
Bulb Base	GX24Q (4-Pin)
Bulb Shape Size	T (Twin Tube Alt)
Voltage	100 to 120 Volts
Frequency	60 Hertz
Average Life	50,000 Hours
Special Feature	Damp Location Rated
Material	Copper
Product Dimensions	1.7 x 1.9 x 5 inches
Item Weight	4 ounces
Color Rendering Index (CRI)	80.00
Beam Angle	120 Degrees
Efficiency	114.00 lumens per watt
Specification Met	RoHS, DLC Standard
UPC	046677458423

8. WARRANTY INFORMATION

PHILIPS products are manufactured to high standards and undergo rigorous quality control. For detailed warranty information regarding your PHILIPS LED PL-C/T Lamp (Model 458422), please refer to the official PHILIPS website or the warranty card included with your purchase. Warranty terms and conditions may vary by region and product type.

9. SUPPORT & CONTACT INFORMATION

For technical support, product inquiries, or further assistance, please visit the official PHILIPS support website or contact their customer service department. Contact details can typically be found on the PHILIPS website or on the product packaging.

Online Resources: www.philips.com/support

