

Philips LED 590547

Philips 12" Circline 4-CCT Selectable White LED User Manual

Model: 590547

INTRODUCTION

This manual provides essential information for the safe and effective use of your Philips 12" Circline 4-CCT Selectable White Color Temperature Plug and Play T9 Type A LED tube. Please read these instructions carefully before installation and retain them for future reference.

The Philips 12" Circline LED tube is designed as a direct replacement for traditional T9 fluorescent circline lamps, offering energy efficiency and flexible color temperature selection. It is a "Plug and Play" Type A LED, meaning it operates with an existing compatible fluorescent ballast.

SAFETY INFORMATION

- **WARNING: Risk of Electric Shock.** Always disconnect power at the circuit breaker or fuse box before installation, removal, or servicing.
- This product is designed for indoor use only. Do not expose to water or damp conditions.
- Ensure the existing fixture and ballast are compatible with Type A LED tubes. Incompatible ballasts may cause flickering, reduced performance, or damage to the LED tube.
- Do not attempt to disassemble or modify the LED tube. There are no user-serviceable parts inside.
- Handle the LED tube with care. Although non-glass, dropping it may cause damage.
- Do not use with dimmers unless explicitly stated on the product packaging or specifications that the bulb is dimmable. This product is generally not designed for dimming.

PACKAGE CONTENTS

Verify that all components are present in the package:

- 1 x Philips 12" Circline 4-CCT Selectable White LED Tube



Image: The Philips 12" Circline LED tube shown alongside its retail packaging, which highlights key features like "Selectable CCT" and "12 inch 1700 lumen".

SETUP AND INSTALLATION

1. Pre-Installation Checks

- **Ballast Compatibility:** This is a Type A LED tube, designed to work with existing fluorescent ballasts. Ensure your fixture has an electronic ballast. Older, heavier magnetic ballasts are generally not compatible and must be bypassed or replaced with an LED-compatible ballast. Consult a qualified electrician if unsure.
- **Fixture Type:** Confirm your fixture is designed for a 12-inch circline (T9) lamp with a G10q base.

2. Select Color Temperature (CCT)

Before installing the bulb, select your desired color temperature using the switch located on the LED tube. This bulb offers four options:

- **3000K (Bright White):** A warm, inviting light suitable for living areas.
- **4000K (Cool White):** A neutral white light, often used in kitchens or offices.
- **5000K (Daylight):** A crisp, bright white light, ideal for task lighting.
- **6500K (Daylight Deluxe):** A very cool, bluish-white light, similar to natural daylight.

Locate the small switch on the side of the LED tube and slide it to the desired CCT setting. This setting cannot be changed once the bulb is installed and powered on without removing it.

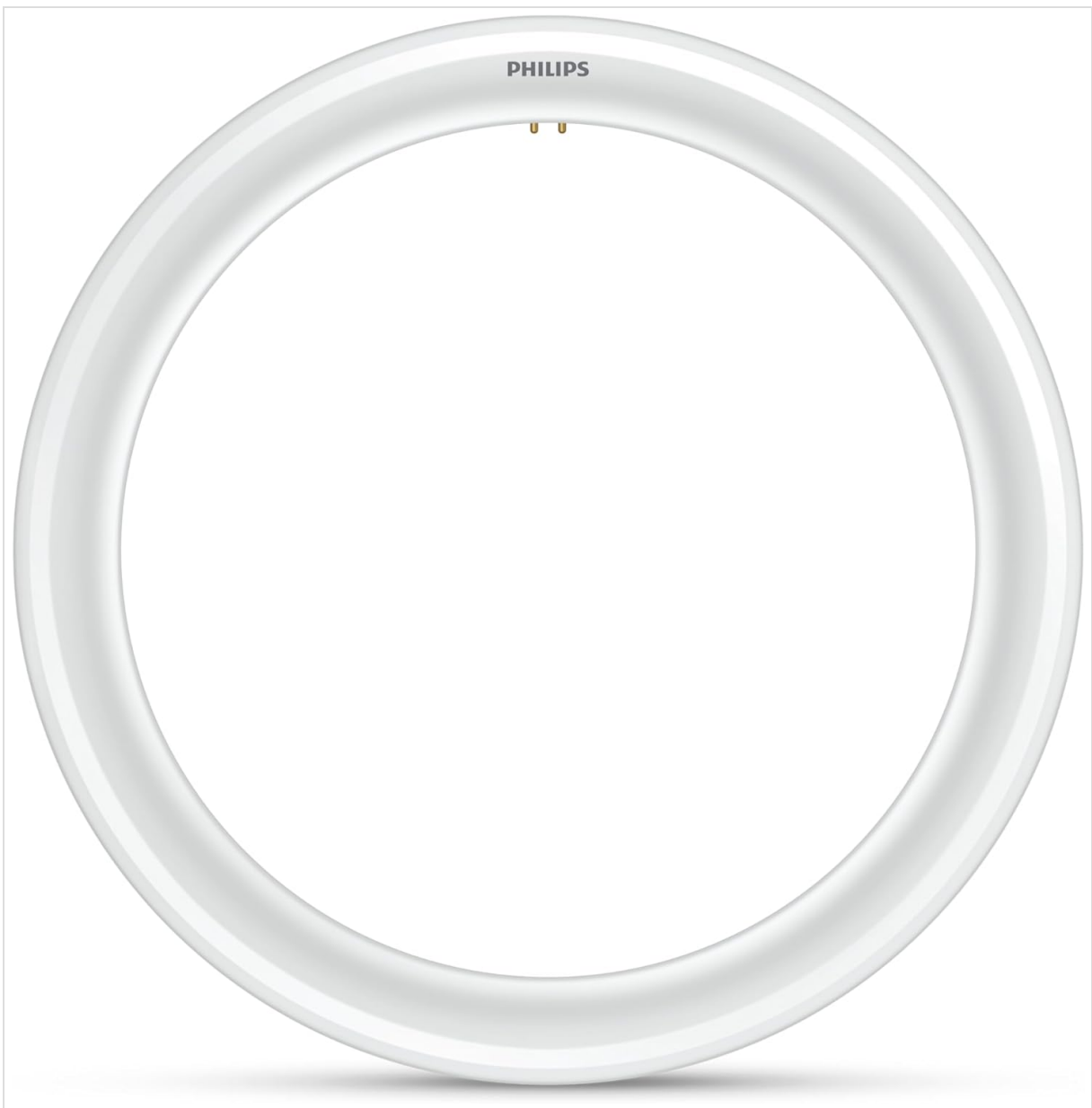


Image: A close-up view of the Philips 12" Circline LED tube, highlighting its circular shape and the G10q base with two pins for connection.

3. Installation Steps

1. **Disconnect Power:** Turn off the power to the fixture at the circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Remove Old Bulb:** Carefully remove the existing fluorescent circline lamp from the fixture. Allow it to cool if it has been recently in use. Dispose of fluorescent bulbs according to local regulations.
3. **Insert LED Tube:** Align the pins of the Philips LED tube with the sockets in the fixture. Gently push and twist (if necessary for your fixture type) until the tube is securely seated. Do not force the tube into the socket.
4. **Restore Power:** Once the LED tube is securely installed, restore power at the circuit breaker.
5. **Test:** Turn on the light switch to confirm the LED tube illuminates.

OPERATING INSTRUCTIONS

The Philips 12" Circline LED tube operates as a direct replacement for fluorescent circline lamps. Once installed and power is restored, it will illuminate when the fixture's switch is turned on.

- **Instant On:** Unlike some fluorescent lamps, this LED tube provides instant full brightness without warm-up time.
- **Flicker-Free:** Designed to reduce visible flicker, providing comfortable illumination.
- **Color Temperature:** The selected color temperature (3000K, 4000K, 5000K, or 6500K) will be active upon power-up. To change the color temperature, you must disconnect power, remove the bulb, adjust the switch, and reinstall.

MAINTENANCE

The Philips 12" Circline LED tube requires minimal maintenance.

- **Cleaning:** Ensure power is disconnected before cleaning. Use a soft, dry, or slightly damp cloth to wipe the surface of the LED tube. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the product.
- **Replacement:** This LED tube has a long lifespan (up to 36,000 hours). Replacement is only necessary at the end of its operational life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
LED tube does not light up.	<ul style="list-style-type: none"> ◦ No power to the fixture. ◦ LED tube not properly seated. ◦ Incompatible or faulty ballast. ◦ Faulty LED tube. 	<ul style="list-style-type: none"> ◦ Check circuit breaker/fuse and wall switch. ◦ Ensure LED tube is fully inserted and twisted into the socket. ◦ Verify ballast compatibility (electronic ballast required). If ballast is old or failing, it may need replacement or bypass. ◦ Test with a known working compatible bulb if available.
LED tube flickers or blinks.	<ul style="list-style-type: none"> ◦ Incompatible or failing ballast. ◦ Loose connection. ◦ Not designed for use with a dimmer switch. 	<ul style="list-style-type: none"> ◦ Ensure ballast is electronic and in good working order. Replace or bypass if necessary. ◦ Check that the LED tube is securely seated in the socket. ◦ Remove any dimmer switches from the circuit if the bulb is not specified as dimmable.
Incorrect color temperature.	<ul style="list-style-type: none"> ◦ CCT switch set incorrectly. 	<ul style="list-style-type: none"> ◦ Disconnect power, remove the bulb, adjust the CCT switch to the desired setting, and reinstall.

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

SPECIFICATIONS

Brand	Philips LED
Model Name	16CIR/LED/12-4CCT/IF17/P/G10q 6/1 FB
Item Model Number	590547

Light Type	LED
Bulb Shape Size	FC12 (Circline T9)
Bulb Base	G10q
Wattage	16 watts
Incandescent Equivalent Wattage	32 Watts
Brightness	1200 Lumens (White Brightness) / 1700 Lumen (Overall)
Color Temperature	Selectable: 3000K, 4000K, 5000K, 6500K
Voltage	120 Volts (Accepted frequency: 100 to 120 Volts and 60 Hertz)
Average Life	36,000 Hours
Material	Plastic
Indoor/Outdoor Usage	Indoor
Special Feature	Eye-Friendly
UPC	046677590543

WARRANTY

This Philips LED product is covered by a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, or to initiate a warranty claim, please refer to the official Philips LED website or contact their customer support.

SUPPORT

For further assistance, technical support, or inquiries regarding your Philips 12" Circline LED tube, please utilize the following resources:

- **Philips LED Official Website:** Visit the official Philips LED website for product information, FAQs, and support contact details.
- **Amazon Product Page:** Refer to the product page on Amazon.com for additional details, customer reviews, and Q&A sections. [View Product Page](#)
- **Customer Service:** Contact Philips customer service directly for personalized support. Contact information can typically be found on the Philips LED website.