

Philips 280909

Philips 17W 24in T8 Bright White Fluorescent Tube User Manual

Model: 280909

INTRODUCTION

This manual provides essential information for the safe and effective use of your Philips 17W 24in T8 Bright White Fluorescent Tube, Model 280909. Please read these instructions carefully before installation and retain them for future reference.

SAFETY INFORMATION

- **Electrical Hazard:** Always disconnect power to the fixture before installing, removing, or servicing the fluorescent tube. Failure to do so may result in electric shock or injury.
- **Fragile Item:** Fluorescent tubes are made of glass and can break. Handle with care to prevent injury.
- **Mercury Content:** This product contains mercury. Dispose of in accordance with local, state, and federal laws. Visit www.epa.gov/mercury for more information.
- **Compatibility:** Ensure the fluorescent tube is compatible with your fixture's ballast and socket type (G13 Medium Bi-Pin).
- **Indoor Use Only:** This bulb is designed for indoor applications.

PRODUCT OVERVIEW

The Philips 17W 24in T8 Bright White Fluorescent Tube is designed to provide efficient and bright illumination. It features a T8 bulb shape and a G13 (Medium Bi-Pin) base for standard fluorescent fixtures.



Figure 1: Philips 17W 24in T8 Bright White Fluorescent Tube. This image shows the cylindrical glass tube with bi-pin connectors at each end.

SPECIFICATIONS

Feature	Detail
Brand	Philips
Model Number	280909
Wattage	17 Watts
Bulb Shape Size	T8
Bulb Base	G13 (Medium Bi-Pin)
Light Color	Bright White

Color Temperature	5000 Kelvin
Brightness	1300 Lumens
Color Rendering Index (CRI)	82
Voltage	240 Volts (AC)
Length	24 inches
Diameter	1 inch
Estimated Life	24,000 hours (approx. 22.2 years based on 3 hrs/day)
Indoor/Outdoor Usage	Indoor

SETUP AND INSTALLATION

- Power Disconnection:** Before beginning installation, ensure the power supply to the fluorescent light fixture is completely turned off at the circuit breaker or fuse box.
- Remove Old Tube (if applicable):** If replacing an existing tube, carefully twist the old tube approximately 90 degrees and gently pull it out of the sockets. Dispose of the old tube properly according to local regulations.
- Inspect Fixture:** Check the fixture's sockets and wiring for any damage. Ensure the ballast is compatible with T8 fluorescent tubes.
- Install New Tube:** Align the two pins at each end of the Philips T8 fluorescent tube with the slots in the fixture's sockets. Gently push the tube into the sockets until it is fully seated, then twist it approximately 90 degrees until it locks into place. Do not force the tube.
- Restore Power:** Once the tube is securely installed, restore power to the fixture from the circuit breaker.
- Test:** Turn on the light switch to confirm proper operation.

If the tube does not light, ensure it is properly seated and twisted into the sockets. If issues persist, refer to the Troubleshooting section.

OPERATING INSTRUCTIONS

Operating the Philips T8 fluorescent tube is straightforward. Once installed in a compatible fixture with power restored, simply use the fixture's wall switch or integrated switch to turn the light on and off.

- Instant On:** This fluorescent tube is designed for quick illumination.
- Optimal Performance:** For optimal performance and lifespan, avoid frequent on/off cycling.

MAINTENANCE

- Cleaning:** To clean the fluorescent tube, ensure the power is off and the tube is cool. Gently wipe the tube with a soft, dry, lint-free cloth. Do not use liquid cleaners or abrasive materials, as these can damage the tube.
- Replacement:** Replace the tube when it reaches the end of its life (indicated by flickering, dimming, or failure to light). Follow the installation instructions in reverse to remove the old tube and install a new one.
- Fixture Maintenance:** Periodically inspect the light fixture for dust accumulation, loose wiring, or damaged sockets. Clean the fixture as needed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tube does not light	<ul style="list-style-type: none">◦ No power to fixture◦ Tube not properly seated◦ Faulty tube◦ Faulty ballast or starter (if applicable)	<ul style="list-style-type: none">◦ Check circuit breaker/fuse.◦ Ensure tube is twisted and locked into sockets.◦ Replace tube with a new one.◦ Consult a qualified electrician to inspect/replace ballast/starter.
Tube flickers	<ul style="list-style-type: none">◦ Tube nearing end of life◦ Loose connection◦ Incorrect ballast	<ul style="list-style-type: none">◦ Replace tube.◦ Ensure tube is securely seated.◦ Verify ballast compatibility.
Dim light output	<ul style="list-style-type: none">◦ Tube nearing end of life◦ Dust/dirt on tube or fixture	<ul style="list-style-type: none">◦ Replace tube.◦ Clean tube and fixture.

DISPOSAL INFORMATION

This fluorescent tube contains a small amount of mercury. It is important to dispose of it responsibly to protect the environment. Do not dispose of fluorescent tubes in regular household trash.

- **Recycling:** Many communities offer recycling programs for fluorescent bulbs. Check with your local waste management authority for recycling options in your area.
- **Hazardous Waste Facilities:** Some areas require fluorescent bulbs to be taken to special household hazardous waste collection sites.
- For more information on mercury-containing products and disposal, please visit the U.S. Environmental Protection Agency (EPA) website: www.epa.gov/mercury.

WARRANTY AND SUPPORT

For warranty information and customer support regarding your Philips fluorescent tube, please refer to the documentation provided with your purchase or visit the official Philips lighting website. Philips products are designed for quality and reliability.

Contact Philips: For technical assistance or product inquiries, please visit www.lighting.philips.com or refer to the contact information provided on the product packaging.

