

Philips 24541-5

Philips 24541-5 1800W HID Lamp User Manual

High Intensity Discharge Lamp

1. INTRODUCTION

Thank you for choosing the Philips 24541-5 1800W High Intensity Discharge (HID) lamp. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new lamp. Please read these instructions thoroughly before use and retain them for future reference. Proper installation and use are crucial for optimal performance and longevity of the product.

2. SAFETY INFORMATION

WARNING: Risk of electric shock, fire, or personal injury. Always follow these safety precautions.

- **Electrical Safety:** Ensure power is disconnected at the circuit breaker before installation, removal, or maintenance. Only qualified personnel should perform electrical work.
- **High Temperature:** HID lamps operate at very high temperatures. Allow the lamp to cool completely before handling. Avoid contact with flammable materials.
- **UV Radiation:** This lamp emits ultraviolet (UV) radiation. Prolonged exposure can cause skin and eye damage. Use in enclosed fixtures designed to filter UV or where exposure is limited.
- **Lamp Rupture:** HID lamps are pressurized and can rupture if mishandled, dropped, or operated in damaged fixtures. Always wear appropriate eye protection during installation and handling.
- **Proper Disposal:** HID lamps may contain mercury. Dispose of lamps according to local, state, and federal regulations. Do not dispose of in regular household waste.
- **Fixture Compatibility:** Use only with appropriate ballasts and fixtures designed for 1800W HID lamps. Incompatible equipment can lead to lamp failure or safety hazards.

3. PRODUCT OVERVIEW

The Philips 24541-5 is an 1800W High Intensity Discharge (HID) lamp designed for applications requiring high light output and specific color characteristics. It features a 6000 Kelvin color temperature, providing a cool white light, and a Color Rendering Index (CRI) of 89, indicating excellent color accuracy. The lamp has

an average life of 750 hours and utilizes a prong base for secure connection.



Figure 1: Philips 24541-5 1800W HID Lamp. This image shows the general appearance of the high-intensity discharge lamp, featuring its bulb and prong base.

4. SETUP AND INSTALLATION

1. **Power Disconnection:** Before beginning installation, ensure that the power supply to the fixture is completely turned off at the main circuit breaker.
2. **Inspect Fixture:** Verify that the lighting fixture and ballast are rated for an 1800W HID lamp and are in good working condition. Check for any signs of damage or wear.
3. **Handle with Care:** Hold the lamp by its base, avoiding direct contact with the glass envelope. Oils from skin can create hot spots and reduce lamp life. If touched, clean with a lint-free cloth and rubbing alcohol.
4. **Insert Lamp:** Carefully align the prong base of the Philips 24541-5 lamp with the socket in the fixture. Insert the lamp firmly and securely into the socket. Do not overtighten.
5. **Secure Fixture:** Ensure the lamp is properly seated and the fixture is closed and secured according to the fixture manufacturer's instructions.
6. **Restore Power:** Once installation is complete and verified, restore power to the fixture at the circuit breaker.

5. OPERATING INSTRUCTIONS

Operating the Philips 24541-5 HID lamp requires a compatible ballast and fixture. Follow these guidelines for optimal performance:

- **Initial Start-up:** Upon first ignition, HID lamps require a warm-up period to reach full brightness and stable color. This can take several minutes.
- **Re-strike Time:** If the lamp is turned off, it cannot be immediately re-ignited. It requires a cool-down period (typically 5-15 minutes, depending on ambient temperature) before it can be re-struck. Attempting to re-strike a hot lamp can damage it or the ballast.
- **Normal Operation:** Once warmed up, the lamp will provide consistent high-intensity light. Avoid frequent on/off cycling, as this can shorten lamp life.
- **Dimming:** This lamp is not designed for dimming unless explicitly stated by the ballast manufacturer and the lamp itself. Using incompatible dimming equipment can cause damage.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your Philips 24541-5 HID lamp.

- **Cleaning:** Periodically clean the outer glass envelope of the lamp and the fixture reflector with a soft, lint-free cloth. Ensure the lamp is cool and power is disconnected before cleaning. Do not use abrasive cleaners.
- **Inspection:** Regularly inspect the lamp for any signs of damage, such as cracks, discoloration, or loose connections. Inspect the fixture and wiring for wear.
- **Lamp Replacement:** Replace the lamp when it reaches its average rated life, shows signs of flickering, reduced brightness, or fails to ignite reliably. Always replace with a lamp of the same type and wattage (Philips 24541-5, 1800W).
- **Disposal:** Dispose of old lamps responsibly according to local environmental regulations, as they may contain hazardous materials like mercury.

7. TROUBLESHOOTING

If you encounter issues with your Philips 24541-5 HID lamp, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lamp does not ignite.	<ul style="list-style-type: none">• No power to fixture.• Lamp not seated correctly.• Faulty ballast or ignitor.• Lamp has reached end of life.	<ul style="list-style-type: none">• Check circuit breaker and power connections.• Re-seat the lamp firmly.• Consult a qualified electrician to inspect ballast/ignitor.• Replace the lamp.
Lamp flickers or cycles on/off.	<ul style="list-style-type: none">• Lamp nearing end of life.• Incorrect voltage or ballast issue.• Overheating.	<ul style="list-style-type: none">• Replace the lamp.• Verify power supply and ballast compatibility.• Ensure adequate ventilation around the fixture.
Reduced brightness or color shift.	<ul style="list-style-type: none">• Lamp nearing end of life.• Dirty lamp or reflector.	<ul style="list-style-type: none">• Replace the lamp.• Clean the lamp and reflector (ensure power is off and lamp is cool).

If problems persist after attempting these solutions, contact a qualified electrician or Philips customer support.

8. SPECIFICATIONS

Feature	Value
Model Number	24541-5

Feature	Value
Brand	Philips
Wattage	1800 watts
Bulb Base	Prong
Light Color	White
Color Temperature	6000 Kelvin
Brightness	174000 Lumen
Color Rendering Index (CRI)	89.00
Average Life	750 hours
Item Weight	6.4 ounces
Assembled Diameter	1.34 Inches
Light Source Type	High Intensity Discharge (HID)
Specific Uses For Product	Lamp

9. WARRANTY AND SUPPORT

Philips products are manufactured to the highest quality standards. This product is covered by Philips' standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Philips website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Philips customer service. Contact information can typically be found on the Philips official website or on your product packaging.

Online Support: www.philips.com/support