

Osram 0800-0705o#1#fhu

Osram 70W HQI-TS Powerstar-Daylight R7s Lamp User Manual

Model: 0800-0705o#1#fhu

1. INTRODUCTION

The Osram 70W HQI-TS Powerstar-Daylight lamp is a highly efficient metal halide lamp designed for use in enclosed luminaires. It provides excellent color rendition and a uniform distribution of light, making it suitable for various applications, including retail displays and environments requiring positive and welcoming illumination. This lamp features Powerstar quartz technology and UV filter technology, offering a long average life of 12,000 hours and hot restrike capability.

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Osram 70W HQI-TS Powerstar-Daylight R7s lamp.

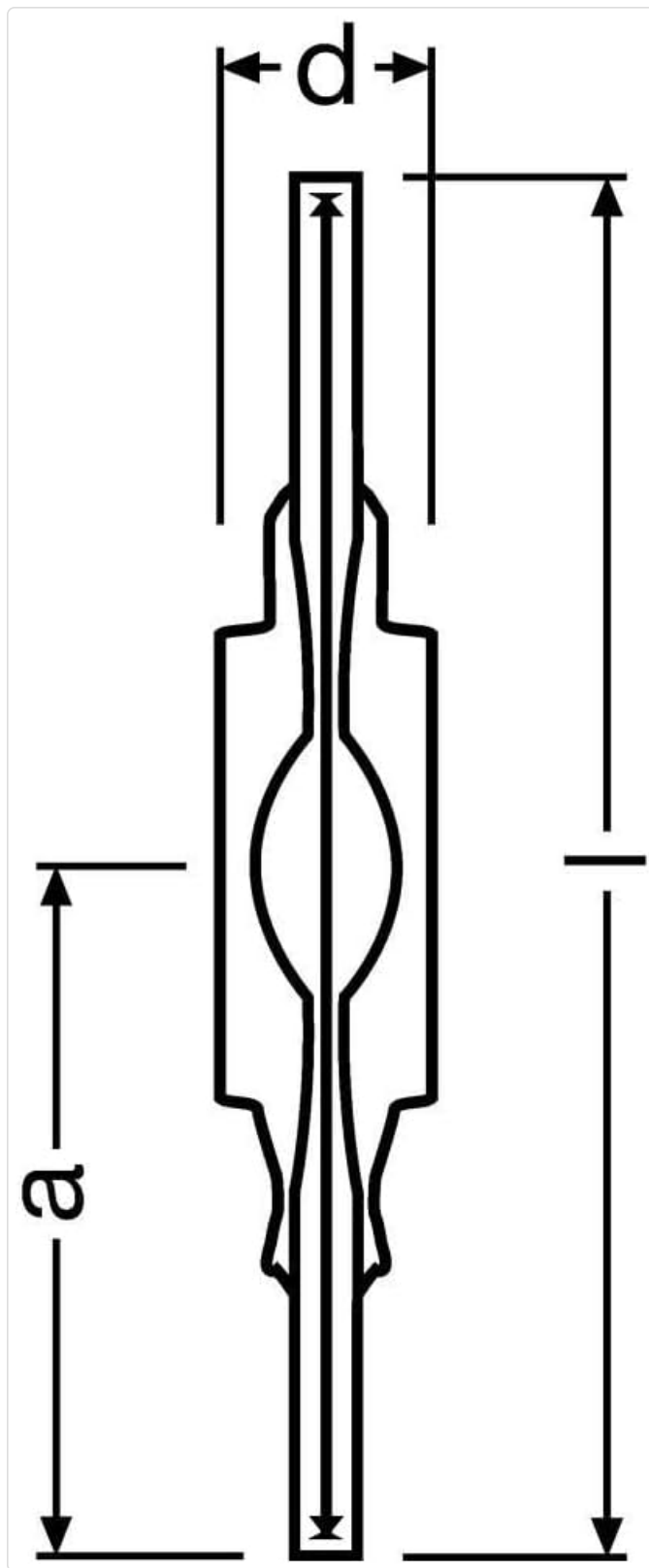


Figure 1: Osram 70W HQI-TS Powerstar-Daylight R7s Lamp. This image shows the linear quartz metal halide lamp with its R7s base.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Ensure power is disconnected before installation, removal, or maintenance.
- This lamp requires a suitable ballast and igniter for operation. Do not connect directly to 230V mains supply.
- Only use in enclosed luminaires to prevent exposure to UV radiation and hot lamp fragments in case of rupture.
- Avoid touching the lamp with bare hands. Use a clean cloth or gloves during installation to prevent oil residue, which can cause hot spots and reduce lamp life.

- Allow the lamp to cool completely before handling.
- Dispose of used lamps according to local regulations.

3. SETUP AND INSTALLATION

The Osram 70W HQI-TS Powerstar-Daylight lamp is designed for horizontal operation in R7s lamp holders within enclosed luminaires.

1. **Power Disconnection:** Ensure the power supply to the luminaire is completely disconnected before beginning installation.
2. **Luminaire Compatibility:** Verify that your luminaire is designed for 70W metal halide lamps with an R7s base and is equipped with the correct ballast and igniter.
3. **Lamp Handling:** Carefully remove the new lamp from its packaging. Hold the lamp by its ceramic ends or use a clean cloth/gloves to avoid touching the quartz envelope.
4. **Insertion:** Insert the R7s pins of the lamp into the corresponding lamp holder sockets. Ensure the lamp is securely seated.
5. **Enclosure:** Close the luminaire enclosure securely. This lamp must only be operated in an enclosed fixture.
6. **Power Connection:** Reconnect the power supply to the luminaire.

Note: Incorrect installation or operation without the proper ballast and igniter can lead to lamp failure, fire hazard, or electric shock.

4. OPERATING INSTRUCTIONS

Once installed correctly, operating the Osram 70W HQI-TS Powerstar-Daylight lamp is straightforward:

- **Initial Ignition:** Upon switching on, the lamp will ignite and gradually reach full brightness. This warm-up period typically takes approximately three minutes.
- **Hot Restrike:** This lamp features hot restrike capability, meaning it can be re-ignited shortly after being switched off, without a prolonged cooling period.
- **Light Color:** This specific model provides a "Daylight" color temperature, ideal for applications requiring bright, natural-looking illumination. Other variants may offer Warm White (WDL), Neutral White (NDL), or Cool Daylight (CD) light.
- **Optimal Performance:** For optimal performance and lamp life, avoid frequent switching on and off.

5. MAINTENANCE

The Osram 70W HQI-TS Powerstar-Daylight lamp is designed for long-term, reliable operation with an average life of 12,000 hours. Minimal maintenance is required:

- **Cleaning:** Periodically clean the exterior of the luminaire and, if accessible and safe, the lamp itself with a soft, dry cloth to remove dust and debris. Ensure the power is off and the lamp is cool before cleaning.
- **Replacement:** Replace the lamp when it reaches the end of its useful life (indicated by dimming, flickering, or failure to ignite). Always replace with a lamp of the same type and wattage.
- **Disposal:** Dispose of old lamps responsibly according to local environmental regulations, as they may contain materials requiring special handling.

6. TROUBLESHOOTING

If your Osram 70W HQI-TS Powerstar-Daylight lamp is not functioning as expected, consider the following common

issues and solutions:

Problem	Possible Cause	Solution
Lamp does not ignite.	No power supply, faulty lamp, faulty ballast/igniter, incorrect wiring.	Check power connection. Ensure lamp is correctly seated. Test with a known good lamp. Have a qualified electrician inspect ballast/igniter and wiring.
Lamp flickers or cycles on/off.	Lamp nearing end of life, incorrect ballast, unstable power supply.	Replace the lamp. Verify ballast compatibility. Check power supply stability.
Reduced light output.	Lamp nearing end of life, dirty lamp/luminaire, incorrect wattage.	Replace the lamp. Clean lamp and luminaire. Ensure correct wattage lamp is installed.

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

7. SPECIFICATIONS

Key technical specifications for the Osram 70W HQI-TS Powerstar-Daylight R7s lamp:

Feature	Detail
Brand	Osram
Model Number	0800-0705o#1#fhu
Wattage	70 watts
Light Type	Metal Halide (HQI-TS)
Bulb Base	R7s
Light Color	Daylight
Voltage	92 Volts (requires ballast)
Average Life	12,000 hours
Special Features	Long Lasting, Powerstar quartz technology, UV filter technology, Hot Restrike Capability
Product Dimensions	11.7 x 1.9 x 1.9 cm
Weight	17 g
Specific Uses	Suitable for outdoor and indoor use (in enclosed luminaires)

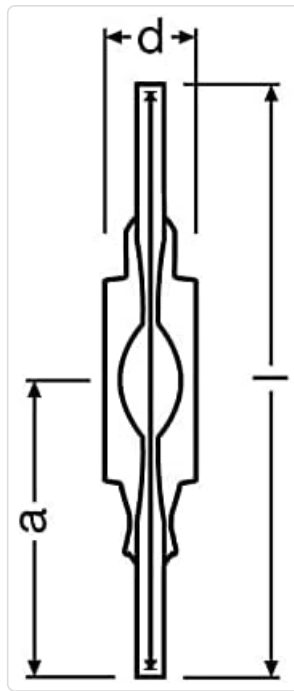


Figure 2: Technical diagram illustrating the dimensions of the HQI-TS lamp. 'd' represents the diameter and 'a' represents the arc length or overall length depending on context.

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Osram 70W HQI-TS Powerstar-Daylight R7s lamp, please refer to the official Osram website or contact their customer service department. Keep your purchase receipt as proof of purchase.

You can visit the official Osram store for more information:[Osram Store](#)