

Sunlite 03640-SU

Sunlite 03640-SU MH70/U/MED M98 Metal Halide Lamp Instruction Manual

Model: 03640-SU | Brand: Sunlite

INTRODUCTION

The Sunlite 03640-SU MH70/U/MED M98 Metal Halide Lamp is a high-intensity discharge (HID) lamp designed for various lighting applications. This 70-watt bulb provides a bright 5600 lumen output with a 4000K cool white color temperature, making it suitable for outdoor lighting and commercial interiors. Featuring a medium E26 base and an ED17 bulb shape, it offers an average lifespan of 15,000 hours. This manual provides essential information for safe installation, operation, and maintenance of your metal halide lamp.

SAFETY INFORMATION

Please read and understand all safety warnings before installing or operating this lamp. Failure to follow these instructions may result in electric shock, fire, personal injury, or property damage.

- **WARNING: Risk of Electric Shock.** Always disconnect power at the circuit breaker or fuse box before installing, removing, or servicing the lamp.
- **WARNING: Risk of Fire.** Use only in fixtures specifically designed for metal halide lamps and with the appropriate M98 ANSI code ballast. Ensure the fixture's wattage rating is not exceeded.
- **WARNING: Risk of Burns.** Metal halide lamps operate at high temperatures. Allow the lamp to cool completely before handling. Do not touch the lamp with bare hands during operation or immediately after shutdown.
- Do not use if the outer glass envelope is broken, cracked, or scratched. Such damage can lead to lamp rupture.
- Ensure the lamp is securely screwed into the socket to prevent arcing or poor contact.
- Dispose of lamps according to local regulations, as they may contain mercury.

PRODUCT OVERVIEW

Key Features

- **High Intensity Discharge:** 70-watt metal halide lamp.

- **Bright Illumination:** Produces 5600 lumens of light.
- **Color Temperature:** 4000K Cool White for clear, neutral lighting.
- **Standard Base:** Medium E26 base for broad compatibility.
- **Long Lifespan:** Average rated life of 15,000 hours.
- **Pulse Start Technology:** Ensures quicker startup and less lumen depreciation.
- **ANSI Code M98:** Designed for use with M98 ballast fixtures.

Lamp Components

The Sunlite Metal Halide Lamp consists of a clear glass outer envelope, an internal arc tube, and a medium E26 screw base for electrical connection.



Figure 1: Sunlite 70-watt Metal Halide Lamp. This image displays the clear glass bulb with its E26 medium screw base.

SETUP AND INSTALLATION

Follow these steps carefully to install your Sunlite Metal Halide Lamp:

1. **Power Disconnection:** Ensure the power supply to the fixture is completely disconnected at the circuit breaker or fuse box before starting installation.

2. **Fixture Compatibility:** Verify that your lighting fixture is designed for metal halide lamps and is compatible with an E26 medium base and M98 ANSI code ballast. Refer to your fixture's manual for compatibility information.
3. **Lamp Inspection:** Carefully remove the new lamp from its packaging. Inspect the lamp for any signs of damage, such as cracks or chips in the glass. Do not install a damaged lamp.
4. **Installation:** Gently screw the lamp into the fixture's E26 socket. Turn clockwise until it is snug. Do not overtighten, as this can damage the lamp or socket.
5. **Secure Seating:** Ensure the lamp is securely seated in the socket.
6. **Restore Power:** Once the lamp is properly installed, restore power to the fixture.



Figure 2: Bulb Base Comparison. This image illustrates various bulb base types, highlighting the E26 standard base (26mm) which is compatible with this lamp.

OPERATING INSTRUCTIONS

After successful installation and power restoration, the lamp will begin its operation sequence:

- **Initial Ignition:** Upon power-up, the pulse start mechanism will ignite the lamp.

- **Warm-up Period:** Metal halide lamps require a short warm-up period to reach full brightness and stable color output. This typically takes a few minutes.
- **Hot Restart:** If the lamp is turned off, it will require a cool-down period before it can be restarted. Attempting to restart a hot metal halide lamp immediately will prevent it from igniting until it has cooled sufficiently. This is a normal characteristic of HID lamps.

MAINTENANCE

Proper maintenance ensures optimal performance and extends the life of your lamp.

- **Cleaning:** Periodically clean the outer surface of the lamp with a soft, dry, lint-free cloth. Do not use liquid cleaners, abrasives, or solvents, as these can damage the lamp or leave residues that affect light output.
- **Inspection:** Regularly inspect the lamp and fixture for any signs of damage, corrosion, or loose connections. Address any issues promptly.
- **Lamp Replacement:** Replace the lamp when it reaches its average rated life (15,000 hours) or if you observe significant dimming, flickering, or cycling (turning on and off repeatedly).
- **Safety First:** Always disconnect power to the fixture and allow the lamp to cool completely before performing any cleaning or inspection.

TROUBLESHOOTING

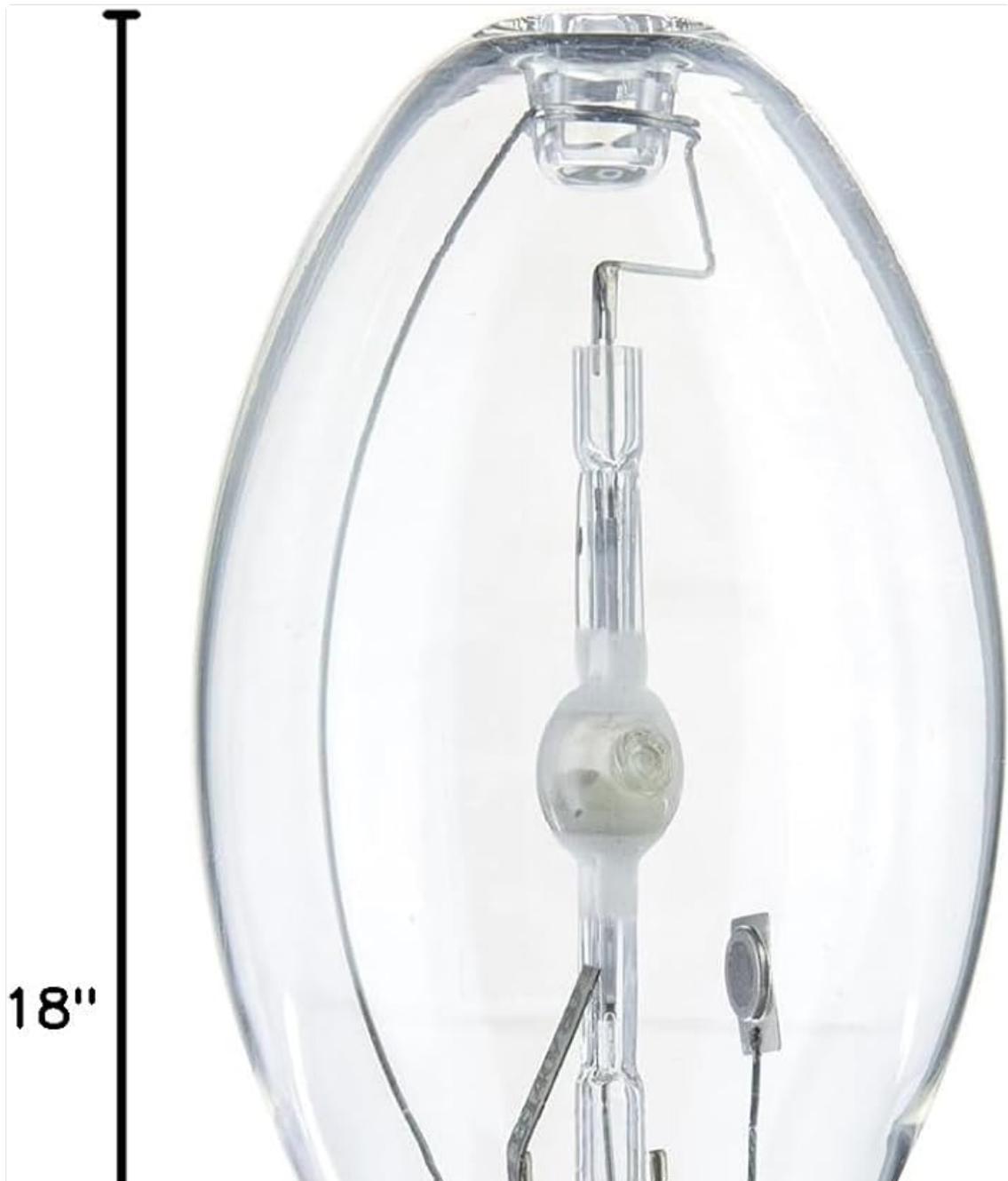
If you encounter issues with your Sunlite Metal Halide Lamp, refer to the following troubleshooting guide:

- **Lamp Does Not Light:**
 - Check if the power supply to the fixture is active.
 - Ensure the lamp is securely screwed into the socket.
 - Verify that the ballast is compatible (M98 ANSI code) and functioning correctly.
 - Inspect the lamp for any visible damage to the filament or outer envelope. Replace if damaged.
- **Lamp Flickers or Cycles (Turns On and Off Repeatedly):**
 - This often indicates the lamp is nearing its end of life. Replace the lamp.
 - It could also be a sign of an incompatible or failing ballast. Consult a qualified electrician if replacing the lamp does not resolve the issue.
 - Ensure the ambient temperature is within the operating range for the lamp and fixture.
- **Reduced Brightness or Color Shift:**
 - Clean the lamp's outer surface as described in the Maintenance section.
 - Reduced brightness is a natural occurrence as the lamp ages. Consider replacing the lamp if output is significantly diminished.

SPECIFICATIONS

Brand	Sunlite
Model Number	03640-SU
Light Type	Metal Halide

Wattage	70 Watts
Bulb Shape Size	ED17
Bulb Base	E26 (Medium)
Lumen Output	5600 Lumens
Color Temperature	4000K (Cool White)
Average Rated Life	15,000 Hours
ANSI Code	M98
Voltage	120 Volts
Material	Glass, Metal
Indoor/Outdoor Usage	Outdoor
Product Dimensions	2.18" Diameter x 5.3" Height



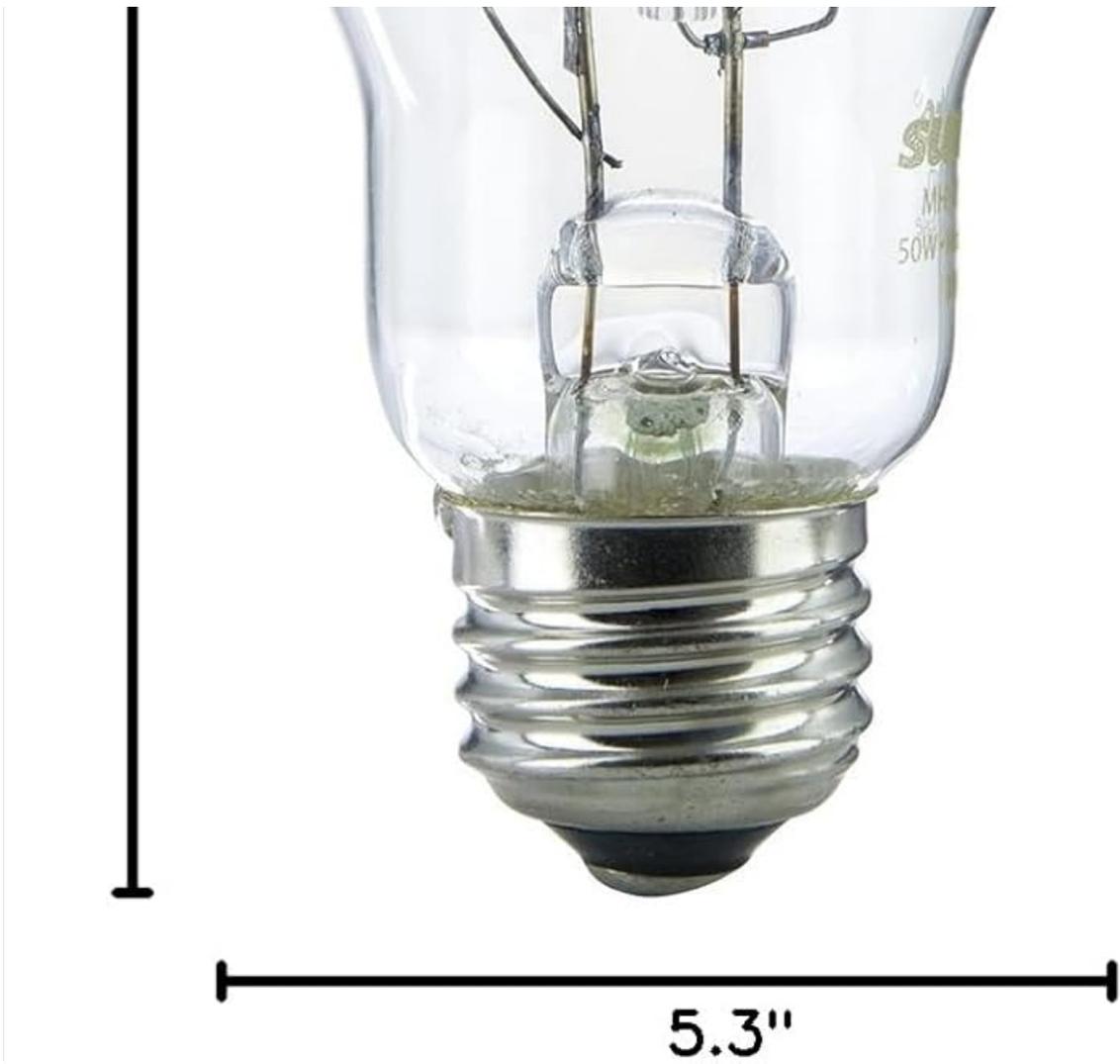


Figure 3: Lamp Dimensions. This image shows the approximate height of the ED17 bulb at 5.3 inches. The diameter is 2.18 inches.

Light Color Temperature



Figure 4: Light Color Temperature. This chart illustrates various color temperatures, with 4000K representing Cool White, suitable for work spaces and task lighting.

WARRANTY AND SUPPORT

Warranty Information

For detailed warranty information regarding your Sunlite 03640-SU MH70/U/MED M98 Metal Halide Lamp, please refer to the packaging of the product or contact Sunlite customer service directly. Warranty terms and conditions may vary.

Customer Support

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a product issue, please contact Sunlite customer service. Contact information can typically be found on the product packaging or the official Sunlite website.