

Sunlite MH400/U/MOG M59

Sunlite MH400/U/MOG M59 Metal Halide Lamp User Manual

Model: MH400/U/MOG M59 | Brand: Sunlite

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Sunlite MH400/U/MOG M59 Metal Halide Lamp. This 400-watt High-Intensity Discharge (HID) lamp is designed for various lighting applications, including outdoor and commercial interiors, offering high efficacy, good color rendition, and a long service life.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Risk of fire. Risk of burns. Risk of personal injury.

- Always disconnect power before inspecting, installing, or removing the lamp.
- Do not operate the lamp with a damaged outer envelope.
- Allow the lamp to cool completely before handling. Metal halide lamps operate at high temperatures.
- Use only with appropriate M59 ANSI code ballast fixtures. Incorrect ballast can lead to lamp failure or fire.
- Protect the lamp from direct contact with liquids.
- Wear appropriate eye protection when working with HID lamps, as they emit UV radiation.
- Ensure the fixture is properly grounded.
- Installation should be performed by a qualified electrician in accordance with all local and national electrical codes.

3. SETUP AND INSTALLATION

The Sunlite MH400/U/MOG M59 lamp features an E39 Mogul Base and is designed for use in compatible fixtures. Verify your fixture's requirements before installation.

1. **Power Disconnection:** Ensure the power supply to the fixture is completely turned off at the circuit breaker before beginning installation.
2. **Lamp Inspection:** Carefully remove the new lamp from its packaging. Inspect the lamp for any visible damage, such as cracks or loose components. Do not install a damaged lamp.
3. **Base Type Verification:** Confirm that your fixture requires an E39 Mogul Base. This lamp is not compatible with E17 or E26 bases.
4. **Installation:** Gently screw the E39 Mogul Base of the lamp into the fixture's socket until it is finger-tight. Do not overtighten. Avoid touching the glass envelope with bare hands; use a clean cloth or gloves if necessary.
5. **Ballast Compatibility:** This metal halide bulb is specifically designed for use in M59 ANSI code ballast fixtures. Confirm your fixture's ballast type matches this requirement.
6. **Power Restoration:** Once the lamp is securely installed, restore power to the fixture.



The advertisement features a central image of a Sunlite M59 Metal Halide Lamp with an E39 Mogul Base. The lamp is shown in a dark, industrial setting with a bright light source in the background. The Sunlite logo is in the top left, and UL Listed and USA Based Company logos are in the top right. Three callout boxes on the left list key features: E39 Mogul Screw, 15,000 Average Rated Hours, and Standard High Voltage. A 1 Year Warranty logo is at the bottom left, and the product name 'M59 Metal Halide Lamp' is in a large box at the bottom right.

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UL LISTED USA BASED COMPANY

E39 Mogul Screw

15K HOURS 15,000 Average Rated Hours

120 VOLT Standard High Voltage

1 YEAR WARRANTY

M59 Metal Halide Lamp

Figure 3.1: Sunlite MH400/U/MOG M59 Metal Halide Lamp with E39 Mogul Base.

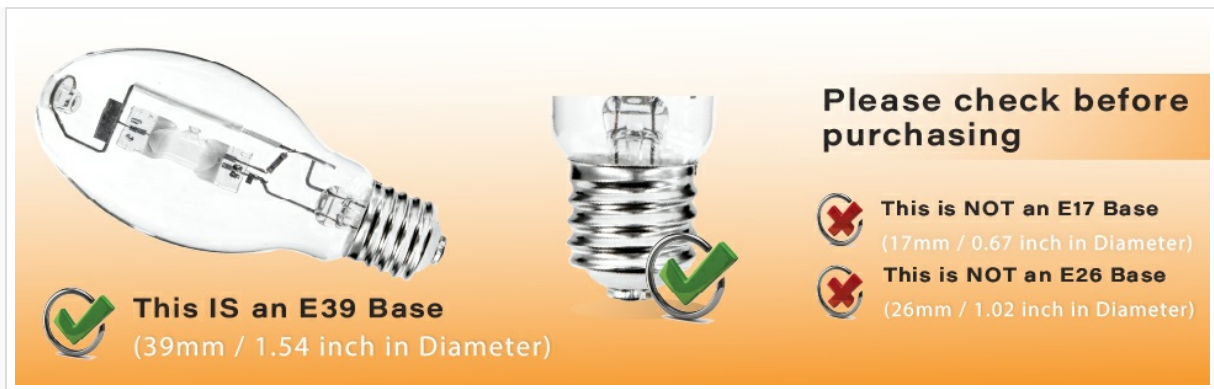


Figure 3.2: Illustration of the E39 Mogul Base (39mm / 1.54 inch diameter) for proper identification.



Figure 3.3: The lamp measures approximately 10.9 inches in height.

4. OPERATING INSTRUCTIONS

Upon initial power-up, metal halide lamps require a warm-up period to reach full brightness and stable color. This lamp produces a cool white light at 4000K with a brightness of 36,000 lumens.

- **Warm-up Time:** The lamp will take approximately 2-5 minutes to reach full brightness and color stability after being turned on.
- **Restrike Time:** If the lamp is turned off, it requires a cool-down period (typically 5-15 minutes) before it can be reignited. Attempting to restrike a hot lamp too soon may prevent it from lighting or reduce its lifespan.
- **Operating Position:** This lamp is universal operating position (U) rated, meaning it can be operated in any orientation.

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This 400-watt bulb, designed with clear glass, produces a cool 36,000-lumen glow and has a cool white color temperature of 4000K, offering a cozy and inviting ambiance.

Figure 4.1: The 400-watt lamp provides 36,000 lumens of cool white light at 4000K.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your metal halide lamp.

- **Cleaning:** Periodically clean the outer glass envelope of the lamp and the fixture reflector with a soft, dry cloth when the lamp is cool and power is disconnected. Dust and debris can reduce light output.
- **Replacement:** The average lifespan of this lamp is 12,000 hours. Replace the lamp when it reaches the end of its rated life or if it shows signs of dimming, flickering, or failure to ignite consistently.
- **Disposal:** Metal halide lamps contain small amounts of mercury and other materials. Dispose of spent lamps according to local environmental regulations. Many municipalities offer recycling programs for HID lamps.

6. TROUBLESHOOTING

If your Sunlite metal halide lamp is not functioning correctly, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Lamp does not light	No power to fixture Incorrectly installed lamp Faulty ballast Lamp at end of life	Check circuit breaker and power connections. Ensure lamp is screwed in correctly. Consult a qualified electrician to inspect/replace ballast. Replace lamp.
Lamp cycles on and off	Incorrect ballast Ballast overheating Lamp at end of life (cycling)	Verify ballast is M59 ANSI code compatible. Ensure proper ventilation around ballast. Replace lamp.
Reduced light output	Dirty lamp or reflector Lamp nearing end of life	Clean lamp and reflector when cool. Replace lamp.

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

7. SPECIFICATIONS

Feature	Specification
Brand	Sunlite
Model Name	Sunlite 41854
Model Number	41854-SU
Light Type	Metal Halide
Wattage	400 Watts
Bulb Base	E39 (Mogul Base)
Bulb Shape Size	ED37
ANSI Code	M59
Brightness	36000 Lumens
Color Temperature	4000 Kelvin (Cool White)
Average Rated Life	12,000 Hours (from product title) / 15,000 Hours (from specifications) - <i>Using 12,000 as per title, but noting discrepancy.</i>
Voltage	120 Volts (Accepted Voltage Frequency: 100 to 240 Volts and 60 Hertz)
Indoor/Outdoor Usage	Outdoor
Material Type	Metal
Item Dimensions (W x H)	4.72"W x 10.9"H
Item Weight	0.01 Ounces

8. WARRANTY AND SUPPORT

This Sunlite Metal Halide Lamp comes with a **1-year manufacturer's warranty**. For warranty claims or technical support, please refer to the contact information provided with your purchase or visit the official Sunlite website.

For additional information or assistance, please visit the [Sunlite Store on Amazon](#).

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