“O” rated for safe operation in open fixtures*

Philips Protected Metal Halide “O” Rated Lamps

Protective quartz shroud provides extra level of safety
- Shrouded arc tube for “O” open fixture rating

No shut-off required
- Ideal for 24-hour a day, 7-day a week operations
  (relamp fixtures at or before the end of rated life)

Extended eyelet mogul base will operate in both standard and exclusionary sockets

Satisfies the 2005 NEC for use in open luminaires†

* Relamp fixtures at or before end of rated average life.
† The 2005 NEC states that luminaires that use a metal halide lamp shall be provided with either a containment barrier that encloses the lamp (historically referred to as an enclosed luminaire) or shall be provided with a means, typically a special lampholder that will only accept ANSI Type-O metal halide lamp. (Exception—this requirement will not apply to open luminaires with thick-glass parabolic reflector PAR lamps.) For more information regarding use of Type-O, S, and E metal halide systems, please refer to the NEMA white paper on this subject that is freely available at www.nema.org
Ordering Data (Subject to change without notice)

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Ordering Code</th>
<th>Nom. Watts</th>
<th>ANSI Code</th>
<th>Bulb Type</th>
<th>MOL (In.)</th>
<th>LCL (In.)</th>
<th>Rated Avg Life (Hrs.)</th>
<th>Initial Lumens</th>
<th>Mean Lumens</th>
<th>Color Temp. (Kelvin)</th>
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<tbody>
<tr>
<td>28119-6</td>
<td>MP175/BU</td>
<td>175</td>
<td>M57/O</td>
<td>ED-28</td>
<td>CLEAR</td>
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</tbody>
</table>

Electrical and Technical Data

- **RMS Lamp Operating Current (Amps) Nominal**: 1.5 (175W), 2.1 (250W), 3.0 (360W), 3.25 (400W), 4.1 (1000W)
- **Lamp Current Crest Factor (Maximum)**: 1.8
- **Warm-up to 80% Full Brightness**: 3–5 minutes
- **Re-start Time for Hot Lamps**: 10–20 minutes
- **Re-start Time for Hot Lamps**: 10–20 minutes
- **Operating Position**: Base-up ± 15°
- **Base**: EX39 Excl. Mog.
- **Luminaires**: Open or Enclosed

Physical Characteristics

- **Bulb Temperature (Maximum)**: 400°C (752°F)
- **Base Temperature (Maximum)**: 210°C (410°F)
- **Standard Package Quantity**: 12 (175W), 250 (250W), 400 (400W), 1000 (1000W)

LAMP OPERATING INSTRUCTIONS:

1. RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE: Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.
2. Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
3. Use only auxiliary equipment meeting Philips and/or ANSI standards. Use within voltage limits recommended by ballast manufacturer.
4. Operate lamp only within specified limits of operation.
5. For total supply load refer to ballast manufacturers electrical data.
6. Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage.
7. If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.
8. Base:
   - Open or Enclosed
9. Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
10. Time should be allowed for lamps to stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Lamp color is also subject to change under conditions of excess vibration or shock, and color appearance may vary between individual lamps.

PROTECTED METAL HALIDE, OPEN OR ENCLOSED FIXTURES, BASE UP OPERATION,
± 15° UNLESS OTHERWISE NOTED

Recommended Warnings, Cautions and Operating Instructions

**WARNING:** These lamps can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not reuse where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This lamp complies with IEC radiation performance standard 21 CFR subchapter J. (USA), (CFR 1040.30, Canada/SOW/DCS/80-381).

If the outer bulb is broken or punctured, turn off at once and replace the lamp to avoid possible injury from hazardous short wave ultraviolet radiation. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the envelope is struck.

**WARNING:** The arc tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.

These lamps are designed to retain all the glass particles should an arc tube rupture occur. The following operating instructions are recommended to minimize these occurrences.

- **CAUTION:** To reduce the risk of personal injury, property damage, burns and fire.
- **RE-LAMP)** Fixtures At Or Before The End Of Rated Life: Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.
- **CAUTION TO REDUCE THE RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE RESULTING FROM AN ARC-TUBE RUPTURE**

About Metal Halide Lamp Classifications

Every metal halide lamp is classified under one of the following three American National Standards Institute (ANSI) classifications:

- **E-Type** may be used in open luminaries, when operated in the near vertical position. This category of lamps is limited only to certain lamps in a 350 to 1000 watt range.
- **S-Type** is may be used in open luminaries, when operated in the near vertical position. This category of lamps is limited only to certain lamps in a 350 to 1000 watt range.
- **O-Type** comply with ANSI Standard C78.387 for containment test and may be used in open luminaries.