The Ushio PulseStrike™ Metal Halide lamps utilize a specialized formed-body arc tube where the quartz glass is contoured to follow the natural curve of the arc stream between the electrodes. This advanced arc tube design allows for the use of a higher fill gas pressure in the arc chamber, which dramatically reduces the damage to the electrodes caused by electrode evaporation. This permits an increase in life and superior lumen maintenance.

PulseStrike Metal Halide lamps produce higher lumens per watt, superior color uniformity, and greater energy savings. These lamps can reduce warm-up time by 50% and improve hot restrike time by 75% when compared to standard probe-start Metal Halide lamps.

Available in Medium Base E26: 70W, 100W, and 150W Mogul Base E39, EX39: 250W, 320W, 350W, and 400W

**FEATURES & BENEFITS**
- High Efficacy - Increased Luminous Flux
- Better Color Performance and Consistency
- 50% Faster Warm-Up Time (2 Minutes vs. 4 Minutes) - Reduces Electrode Wear up to 50%
- Improved Hot Restrike Capability (4 Minutes vs. 15 Minutes) - Up to 75% Faster than Probe-Start
- Universal Burn Position

**APPLICATIONS**
- Commercial and Industrial
- Flood Lighting
- Stadium and Sports Facilities
- Downlighting
- Parking Garages / Lots
- Security
- Retail
- Retrofit / Upgrade
- Gas Stations
**SPECIFICATIONS**

**Color Rendering Index:**
65 CRI - 70W & 100W
68 CRI - 150W

---

**Case Quantity:** 12

<table>
<thead>
<tr>
<th>Watts (W)</th>
<th>Ordering Code</th>
<th>Lamp Description</th>
<th>Bulb Type</th>
<th>Bulb Finish</th>
<th>Color Temp (K)</th>
<th>Initial Lumens</th>
<th>Approx Mean Lumens</th>
<th>Average Rated Life (h)</th>
<th>ANSI Ballast / Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>5001342</td>
<td>MP70/U/MED/32/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>3200</td>
<td>5500</td>
<td>5200</td>
<td>4100</td>
<td>3300</td>
</tr>
<tr>
<td>70</td>
<td>5001344</td>
<td>MH70/U/MED/40/PS</td>
<td>ED17</td>
<td>Clear</td>
<td>4000</td>
<td>6000</td>
<td>4850</td>
<td>4100</td>
<td>3150</td>
</tr>
<tr>
<td>70</td>
<td>5001346</td>
<td>MP70/U/MED/40/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>4000</td>
<td>5500</td>
<td>5150</td>
<td>4000</td>
<td>3550</td>
</tr>
<tr>
<td>100</td>
<td>5001414</td>
<td>MP100/U/MED/32/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>3200</td>
<td>8800</td>
<td>8400</td>
<td>5700</td>
<td>5575</td>
</tr>
<tr>
<td>100</td>
<td>5001348</td>
<td>MH100/U/MED/40/PS</td>
<td>ED17</td>
<td>Clear</td>
<td>4000</td>
<td>8500</td>
<td>8100</td>
<td>5300</td>
<td>5100</td>
</tr>
<tr>
<td>100</td>
<td>5001350</td>
<td>MP100/U/MED/40/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>4000</td>
<td>8100</td>
<td>8050</td>
<td>4900</td>
<td>4800</td>
</tr>
<tr>
<td>150</td>
<td>5001354</td>
<td>MP150/U/MED/32/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>3200</td>
<td>13300</td>
<td>12400</td>
<td>9200</td>
<td>8300</td>
</tr>
<tr>
<td>150</td>
<td>5001356</td>
<td>MH150/U/MED/40/PS</td>
<td>ED17</td>
<td>Clear</td>
<td>4000</td>
<td>14000</td>
<td>12100</td>
<td>9700</td>
<td>9600</td>
</tr>
<tr>
<td>150</td>
<td>5001358</td>
<td>MP150/U/MED/40/PS</td>
<td>EDX17</td>
<td>Clear</td>
<td>4000</td>
<td>12300</td>
<td>12200</td>
<td>9500</td>
<td>9400</td>
</tr>
</tbody>
</table>

---

**R - Non Self-Extinquishing Lamp**

**WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. Complies with the USA Federal Standard 21 CFR 1040.30 and Canada Standard SOR/80-381.

---

**CALIFORNIA PROPOSITION 65 WARNING:** These products can expose you to Mercury known to the state of California to cause birth defects or other reproductive harm. For more information, please go to: www.p65warnings.ca.gov

---

**Contains mercury content du mercure**

Manage in Accord with Disposal Laws

www.lamprecycle.org 1-800-895-8842
Color Rendering Index:
68 CRI - Mogul Base

<table>
<thead>
<tr>
<th>Watts (W)</th>
<th>Ordering Code</th>
<th>Lamp Description</th>
<th>Bulb Type</th>
<th>Bulb Finish</th>
<th>Color Temp (K)</th>
<th>Initial Lumens</th>
<th>Approx Mean Lumens</th>
<th>Average Rated Life (h)</th>
<th>ANSI Ballast/Fixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>5001360</td>
<td>MH250/U/MOG/40/PS</td>
<td>ED28</td>
<td>Clear</td>
<td>4000</td>
<td>25000</td>
<td>23500</td>
<td>19000</td>
<td>15000*/20000**</td>
</tr>
<tr>
<td>250</td>
<td>5001362</td>
<td>MP250/U/MOG/40/PS</td>
<td>ED28</td>
<td>Clear</td>
<td>4000</td>
<td>26000</td>
<td>24500</td>
<td>19500</td>
<td>15000*/20000**</td>
</tr>
<tr>
<td>320</td>
<td>5001364</td>
<td>MH320/U/MOG/40/PS</td>
<td>ED28</td>
<td>Clear</td>
<td>4000</td>
<td>32500</td>
<td>30500</td>
<td>25500</td>
<td>20000*/30000**</td>
</tr>
<tr>
<td>320</td>
<td>5001366</td>
<td>MP320/U/MOG/40/PS</td>
<td>ED28</td>
<td>Clear</td>
<td>4000</td>
<td>32500</td>
<td>30000</td>
<td>23000</td>
<td>20000*/30000**</td>
</tr>
<tr>
<td>350</td>
<td>5001368</td>
<td>MH350/U/MOG/40/PS</td>
<td>BT37</td>
<td>Clear</td>
<td>4000</td>
<td>37000</td>
<td>35500</td>
<td>28000</td>
<td>20000*/30000**</td>
</tr>
<tr>
<td>350</td>
<td>5001370</td>
<td>MP350/U/MOG/40/PS</td>
<td>BT37</td>
<td>Clear</td>
<td>4000</td>
<td>39000</td>
<td>36500</td>
<td>29000</td>
<td>20000*/30000**</td>
</tr>
<tr>
<td>400</td>
<td>5001372</td>
<td>MH400/U/MOG/40/PS</td>
<td>BT37</td>
<td>Clear</td>
<td>4000</td>
<td>40000</td>
<td>39000</td>
<td>32000</td>
<td>20000*/30000**</td>
</tr>
<tr>
<td>400</td>
<td>5001374</td>
<td>MP400/U/MOG/40/PS</td>
<td>BT37</td>
<td>Clear</td>
<td>4000</td>
<td>42000</td>
<td>41000</td>
<td>30500</td>
<td>20000*/30000**</td>
</tr>
</tbody>
</table>

ANSI Fixture Requirement: /E = Enclosed Fixtures Only, /O = Open or Enclosed Fixtures

Burn Cycle: *11 hours ON, 1 hour OFF
**120 hours ON, 1 hour OFF (Recommended shut down 15 minutes per week)

R - Non Self-Extinguishing Lamp
WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. Complies with the USA Federal Standard 21 CFR 1040.30 and Canada Standard SOR/80-381.

CALIFORNIA PROPOSITION 65 WARNING: These products can expose you to Mercury known to the state of California to cause birth defects or other reproductive harm. For more information, please go to: www.p65warnings.ca.gov

contains mercury
contient du mercure

Manage in Accord with Disposal Laws
www.lamprecycle.org 1-800-895-8842
What is the difference in Metal Halide arc tube bodies?
PulseStrike™ pulse start lamps have formed body arc tubes and require an ignitor to start the lamp. Standard Metal Halide lamps have pinched arc tubes with a probe start electrode and uses a bi-metal switch and the crest voltage to start the lamp.

- Precise geometry tolerances
- Smaller mass; accelerates start up and cool down
- Superior lumen maintenance
- Envelope contour follows natural curve of arc stream

• Uses additional probe start electrode
• Larger cold surface area; reduce Metal Halide efficiency
• Standard technology, over 35 years old

Improved Color Uniformity
The formed arc tubes of PulseStrike lamps are manufactured to precise geometry tolerances. Thus the temperature of the arc tube can be controlled more accurately, reducing color temperature differences from lamp to lamp and improving color maintenance over the life of the lamp.

Energy Saving
The formed arc tube of PulseStrike lamps and the use of pulse start technology ballasts enables the PulseStrike lamps to produce up to 105 lm/W. Standard Metal Halide lamps begin life at a lower efficacy of approximately 80 lm/W and their light output may rapidly decrease over time. A facility requiring fifty standard 400W standard Metal Halide lamps, can be fitted with 320 W PulseStrike lamps for an annual energy savings of $5,250. $105 per fixture savings @ $0.15/kWh (24 hour operation cycle).

Superior Lumen Maintenance
In the formed arc tube of PulseStrike lamps, the use of a pulse start ignitor and low current crest factor results in less electrode wear and thus producing superior lumen maintenance over the life of the lamp. In standard pinched body Metal Halide lamps, the probe start electrode is not in use when the lamp is burning; consequently, resulting in additional tungsten evaporation, quicker blackening of the arc tube and reduced light.

Faster Start-up and Restrike Time
The formed arc tube of PulseStrike lamps and the use of a high voltage ignitor, enables the Metal Halide gases to be broken up faster (up to 50%), allowing a higher gas fill pressure. The formed arc tube design furthermore means less mass that has to be heated, thus resulting in a faster start up time. This also ensures quicker cool-down time, allowing the lamp to be restruck faster.

Better Cold Starting
The formed arc tube of PulseStrike lamps and the use of a high voltage ignitor, again enables the higher fill pressure Metal Halide gases to be broken up faster. This enables the use of these lamps in very cold areas as low as -300 C, cold storage facilities and freezer warehouses. Standard Metal Halide lamps take more than 6 minutes from start up to full lumen output and in very cold conditions, they may not start at all.

Higher Lumen Per Watt Efficacy
PulseStrike lamps are 20% more effective at the beginning of lamp life, boasting up to 160 lm/W and approximately 40% more efficient over the life of the lamp. This gives a superior mean lumen package. Standard Metal Halide lamps have an efficacy of approximately 80 lm/W. This light output rapidly decreases over time.

Longer Life
PulseStrike lamps have a long rated life, and maintain high light output over the life of the lamp. This enables the user to replace lamps less, thereby saving on lamp and lamp change-out costs. Standard Metal Halide lamps have long rated lamp life; however, due to the lower output drop over lifetime, they become inefficient very quickly.