PULSE START METAL HALIDE
MEDIUM & MOGUL BASE
FOR GENERAL LIGHTING

USHIO’s 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 re-strike time by 75% when compared to standard probe-start Metal Halide lamps.

Available in—
- Medium Base E26: 70W, 100W, and 150W

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 re-strike capability (4 minutes vs. 15 minutes)— up to 75% faster than probe-start

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

Distributed by:
**PULSESTRIKE™ METAL HALIDE**

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

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**Medium Base:**
- E26 — Enclosed (/E) and Open (/O) Fixture

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

**Burn Position:**
- Medium E26 Base — Universal

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### CHARACTERISTICS & SPECIFICATIONS

**Medium Base:**
- E26 — Enclosed (/E) and Open (/O) Fixture

**Burn Cycle:**
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(Recommended shut down 15 minutes per week)*

**Burn Position:**
- Medium E26 Base — Universal

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<table>
<thead>
<tr>
<th>Watts (W)</th>
<th>Ushio Ordering Code</th>
<th>Ushio Lamp Description</th>
<th>ANSI Ballast</th>
<th>Bulb Type</th>
<th>Color Temp (K)</th>
<th>Initial Lumens Vert / Horiz</th>
<th>Burn Position</th>
<th>Approx Lumens Vert / Horiz Burn Position</th>
<th>Avg Life (h)</th>
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*Case Quantity: 12*

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

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**Characteristics & Specifications:**

- **USHIO America, Inc. • www.ushio.com**

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**Dimensions:**
- Ø 2.13 in (54 mm)
- 5.43 in (138 mm)
- 3.39 in (86 mm)
**PULSESTRIKE™**
**METAL HALIDE**

**Color Rendering Index:**
(4000K - 68 CRI)

**Mogul Base:**
E39—Enclosed Fixture (/E)
EX39—Open Fixture (/O)

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**Burn Position:**
Mogul E39 & EX39 Base — Universal

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

**ANSI Fixture Requirement:**
/E = Enclosed Fixtures Only
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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

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).

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.

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 -30°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.

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 lumen output drop over lifetime, they become inefficient very quickly.

Form No. S-PSMH/R-0810: The specifications on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.