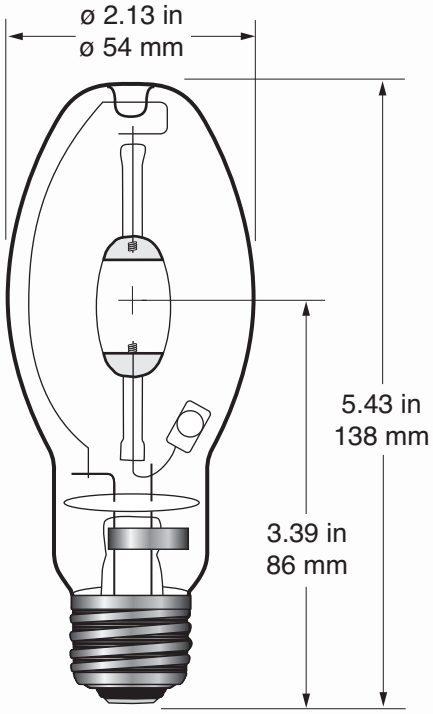
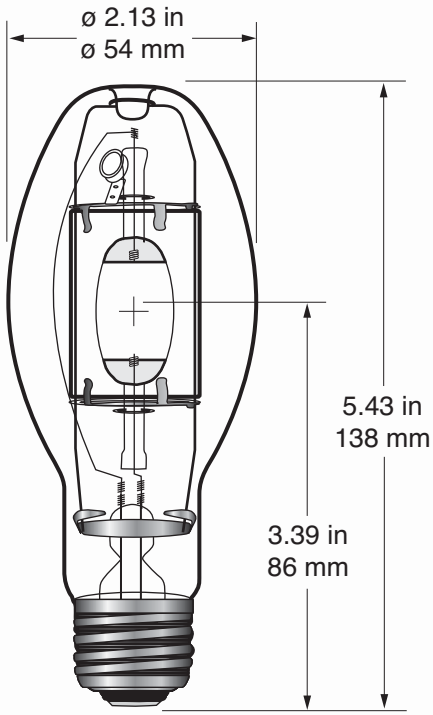
PULSESTRIKE™ METAL HALIDE

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

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



ED17
/E = Enclosed fixtures only



EDX17
/O = Open or Enclosed fixtures

Watts (W)	Ushio Ordering Code	Ushio Lamp Description	ANSI Ballast	Bulb Type	Color Temp (K)	Initial Lumens Vert / Horiz Burn Position	Approx Mean Lumens Vert / Horiz Burn Position	Avg Life (h)
E26 MEDIUM BASE								
70	5001342	MP70/U/MED/32/PS	M98/O	EDX17 Clear	3200	5500 / 5200	4100 / 3300	15000*
70	5001344	MH70/U/MED/40/PS	M98/E	ED17 Clear	4000	6000 / 4850	4100 / 3150	15000*
70	5001346	MP70/U/MED/40/PS	M98/O	EDX17 Clear	4000	5500 / 5150	4000 / 3550	15000*
100	5001414	MP100/U/MED/32/PS	M90/O	EDX17 Clear	3200	8800 / 8400	5700 / 5575	15000*
100	5001348	MH100/U/MED/40/PS	M90/E	ED17 Clear	4000	8500 / 8100	5300 / 5100	15000*
100	5001350	MP100/U/MED/40/PS	M90/O	EDX17 Clear	4000	8100 / 8050	4900 / 4800	15000*
150	5001354	MP150/U/MED/32/PS	M102/O	EDX17 Clear	3200	13300 / 12400	9200 / 8300	15000*
150	5001356	MH150/U/MED/40/PS	M102/E	ED17 Clear	4000	14000 / 12100	9700 / 9600	15000*
150	5001358	MP150/U/MED/40/PS	M102/O	EDX17 Clear	4000	12300 / 12200	9500 / 9400	15000*

Case Quantity: 12

Burn Position:
Medium E26 Base — Universal

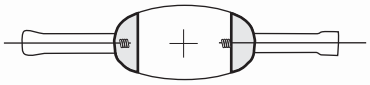
Burn Cycle:
*11 hours ON, 1 hour OFF
**120 hours ON, 1 hour OFF
(Recommended shut down 15 minutes per week)

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

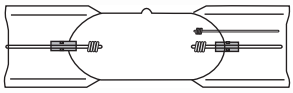
PULSESTRIKE™ TECHNOLOGY

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**



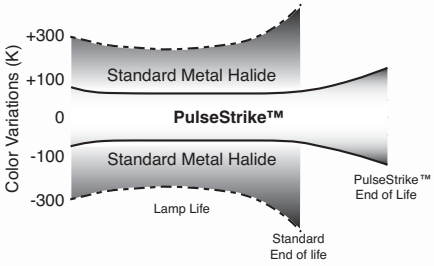
PulseStrike™ Formed Body



Standard Metal Halide Pinched Body (Probe Start)

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

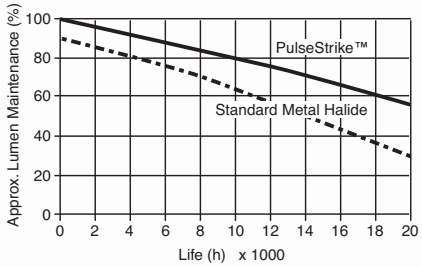
Improved Color Uniformity
The formed arc tubes of PulseStrike™ lamps are manufactured to precise geometry tolerances. Thus the temperature of the arc tube can be controlled more accurately, reducing color temperature differences from lamp to lamp and improving color maintenance over the life of the lamp.



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

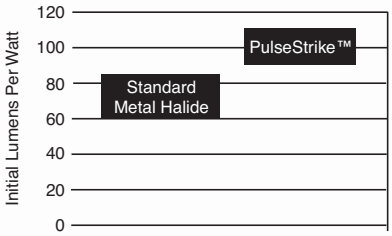


In the formed arc tube of PulseStrike™ lamps, the use of a pulse start ignitor and low current crest factor results in less electrode wear and thus producing superior lumen maintenance over the life of the lamp. In standard pinched body Metal Halide lamps, the probe start electrode is not in use when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

Faster Start-up and Re-strike 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.

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.

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 -30^0 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.

Scan with a smartphone to view this product online.

Hg LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org or 1-800-895-8842

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.

Form No. S-PSMH/R-0911: The specifications on this sheet supercede all previously published specifications and may be subject to change for design and specification improvement without prior notice.