

METAL HALIDE TECHNOLOGY UPGRADE

IT'S AS SIMPLE AS 1,2,3 SAVE!



The Steps to Finding the Right Kit

Step 1 Assess the Fixture

Step 2 Choose a Lamp

Step 3 Choose a Ballast

Start Saving!



VentureLighting.com

COMPARE AND SEE THE SAVINGS!

Probe Start Fixture	Venture's Pulse Start Upgrade	System Watts Saved ¹	Total Annual Savings Per Fixture ²	Light Levels ³	Increased Lamp Life Hours	Maintained Lumens Per Watt ⁴
1000W	875W	155	\$68	V: +35% H: +30%	14000 3000	91 87
	775W	235	\$103	V: SAME ⁴ H: SAME	14000 6000	77 70
	575W	460	\$201	V: -20% ⁵	14000	83
400W	350W	75	\$33	V: +35% H: +48%	10000 11000	91 81
	320W	106	\$46	V: +20% H: +35%	10000 11000	89 81
	200W	70	\$31	V: +55% H: +75%	5000 7500	90 82
175W	150W	40	\$17	V: +35% H: +35%	5000 3750	70 63
	125W	70	\$31	V: +7% H: +7%	5000 3750	67 60

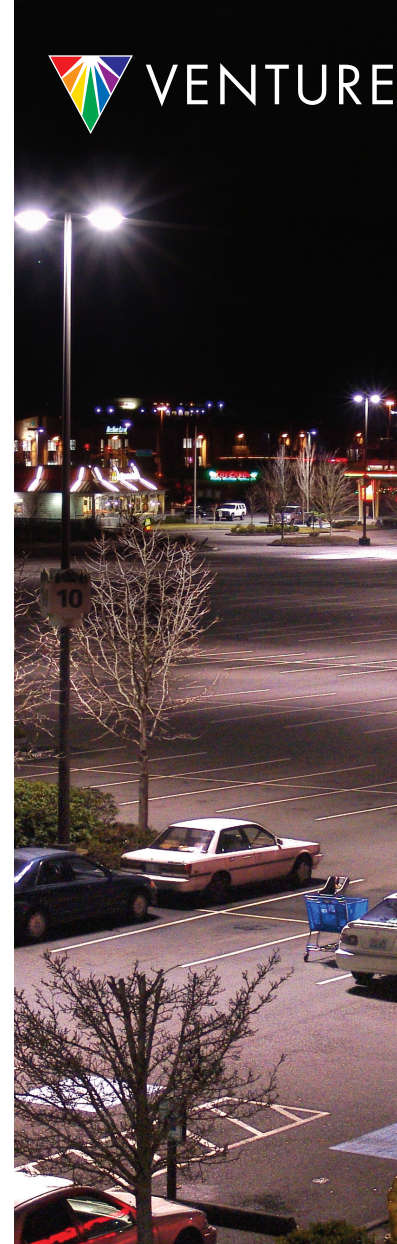
Notes:

- 1 Calculated based on use of CWA ballast
- 2 Based upon 12 hours per day, \$0.10 per kWh
- 3 Lumen depreciation compared at mean lumen point (40% of rated life) for pulse start lamp
- 4 Natural White 775W Scotopically enhanced light appears 25% brighter
- 5 Fits in a 1000W fixture and provides twice the mean lumens of a 400W probe start lamp
Intended for overlit applications, the 575W is 20% less light output than the probe start 1000W
- 6 Maintained Lumens Per Watt of probe start 1000W = 59, 400W = 59, 250W = 45, 175W = 45

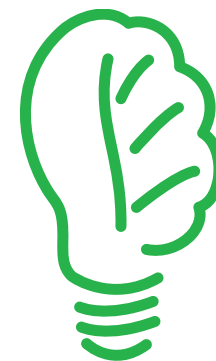
V = Vertical, H = Horizontal lamp burn operation

■ = Pulse Start, ▲ = Natural White, ■ = Horizontal Pulse Start

VENTURE LIGHTING®



FIND THE
ENERGY
SAVING KIT
THAT FITS

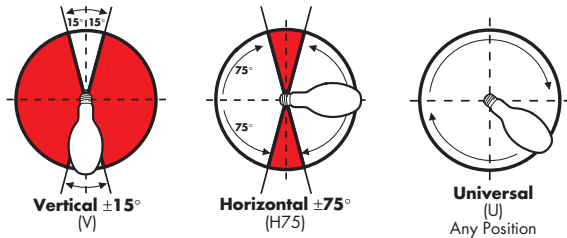


**METAL HALIDE
TECHNOLOGY UPGRADE**

Step 1 Assess the Fixture!

Are the fixture and reflector in good condition? If "Yes", you're on your way!

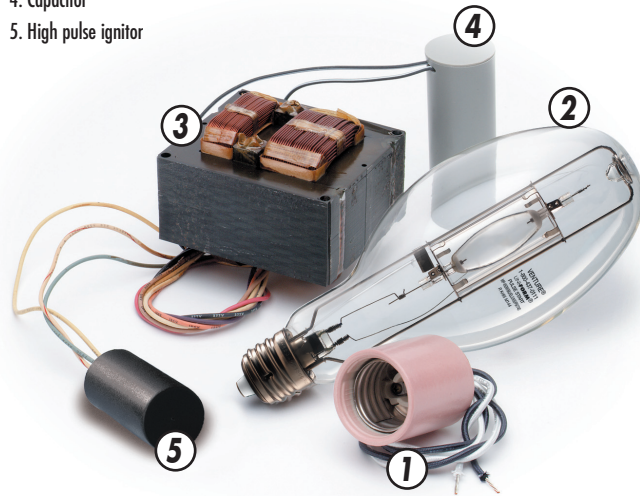
Pulse start lamps above 150 watts are engineered for Vertical (V) or Horizontal (H) operating position only. Universal (U) lamps are available 150 watts and below. Determine which lamp is needed from the diagrams below.



New sockets are required. 4KV pulse rated sockets are required for pulse start metal halide systems. These sockets are available with your energy saving lamp/ballast kit.

Energy Saving Kits Include:

1. 4KV pulse rated socket
2. Venture's high performing Uni-Form® pulse start lamp
3. Venture's energy efficient pulse start ballast
4. Capacitor
5. High pulse ignitor



One Call Warranty

Our warranty program is first in the industry in comprehensive system coverage that doubles the coverage period on lamps and ballasts purchased and installed as part of the Uni-Form system.



Step 2 Choose a Lamp!

Lamp Product Code Example

MP 150W/C/U/ED28/UVS/PS/737

MP	150W	C	U	ED28	UVS	PS	737
Metal halide type	Lamp wattage	Outer jacket finish	Operating position	Bulb shape and diameter, if non-standard	UV reduction feature	Pulse start lamp family	Color temperature



Lamp Product Codes

Bulb Shape, Size and Finish

MP Uni-Form® lamps with a protected (shrouded) arc tube designed for open or enclosed luminaires

MS High output MH lamps for dedicated operating positions

MH Metal halide, typically universal "U", "HBU" or "HBD" operating positions

C Lamps with a coated outer jacket

ED## Elliptical dimple bulb shape and diameter in 1/8 in. (i.e. diameter of ED28 is 3.5 in.)

BT37 Blown tubular bulb shape with 4.625 in. diameter

T15 Tubular bulb shape with 1.875 in. diameter

MED Medium base

PS Pulse start lamp

UVS UV Shield® feature reduced ultraviolet output

Lamp Position of Operation

U Universal operating position

BU Base up (±15°) operating position

V Vertical (±15°) operating position

H75 Horizontal (±75°) operating position, without a position oriented base socket

HBU Horizontal to base up (or BU±90°) operating position

HOR Horizontal (±45°) operating position, requires a position oriented base (POMB) socket

Color Temperature and CRI

732 3200K color, 70 CRI lamps

740 4000K color, 68 CRI lamps

950 Natural White® lamp, 5000K color, high CRI (90+) lamps

Venture's High Performing Pulse Start Lamps

Probe Start Fixture	Pulse Start Wattage	Part Number	Lamp Description	ANSI Code	Case Qty
1000W	875W	58953	MP 875W/BU/BT37/PS/740	M166/O	6
		22619	MS 875W/BU/BT37/PS/740	M166/E	6
		35426	MS 875W/BD/BT37/PS/740	M166/E	6
		33759	MS 875W/HOR/BT37/PS/740	M166/E	6
		24983	MP 775W/BU/BT37/PS/950	M181/O	6
775W	775W	24999	MS 775W/H75/BT37/PS/950	M181/E	6
		60023	MP 575W/BU/BT37/PS/740	M178/O	6
575W	350W	51628	MP 350W/BU/UVS/PS/EM/950	M131/O	6
		33149	MP 350W/BU/ED28/UVS/PS/EM/950	M131/O	12
		22149	MP 350W/V/UVS/PS/740	M131/O	6
400W	350W	47887	MP 350W/V/ED28/UVS/PS/740	M131/O	12
		46959	MS 350W/H75/ED28/PS/740	M131/E	12
		93749	MS 350W/H75/T15/PS/740	M131/E	12
320W	200W	98389	MS 350W/V/PS/740	M131/E	6
		52980	MS 350W/V/ED28/PS/740	M131/E	12
		98530	MP 320W/BU/ED28/UVS/PS/EM/950	M154/O	12
		98520	MP 320W/BU/ED37/UVS/PS/EM/950	M154/O	6
		95320	MP 320W/H75/T15/S/UVS/PS/EM/950	M154/O	12
250W	200W	95321	MP 320W/H75/T15/L/UVS/PS/EM/950	M154/O	12
		21714	MP 320W/BU/ED37/UVS/PS/740	M154/O	6
		10103	MP 320W/BU/ED28/UVS/PS/740	M154/O	12
		47549	MS 320W/H75/ED28/PS/740	M154/E	12
		57626	MS 320W/H75/T15/S/PS/740	M154/E	12
175W	150W	79710	MS 320W/H75/T15/L/PS/740	M154/E	12
		52236	MS 320W/V/ED37/PS/740	M154/E	6
		59194	MS 320W/V/ED28/PS/740	M154/E	12
		95200	MP 200W/BU/UVS/PS/EM/950	M136/O	12
		22147	MP 200W/V/UVS/PS/740	M136/O	12
125W	125W	70764	MS 200W/H75/T15/PS/740	M136/E	12
		57739	MS 200W/V/PS/740	M136/E	12
		60811	MS 200W/BU/MED/PS/740	M136/E	12
		22522	MP 150W/U/UVS/PS/732	M102/O	12
		22455	MP 150W/U/UVS/PS/740	M102/O	12
		58963	MP 150W/U/ED28/UVS/PS/740	M102/O	12
		99584	MH 150W/U/PS/740	M102/E	12
		13556	MH 150W/U/ED28/PS/740	M102/E	12
		13341	MP 125W/BU/UVS/PS	M150/O	12
		25813	MP 125W/V/ED28/UVS/PS	M150/O	12
		76602	MH 125W/HBU/PS	M150/E	12
		61914	MH 125W/HBU/ED28/PS	M150/E	12

Note: Coated lamps available, ask your distributor how to order

Step 3 Choose a Ballast!

Ballast Part Number Code Example

V90D1434K

V	90	D	14	3	4	K
Venture	Ballast Type	Voltage	Lamp Type, ANSI Code	Circuit Type	Design Version	Suffix



Ballast Part # Codes

Voltage

D 120/208/240/277

U 277

Y 480

Circuit Type

1 CWA

2 Reactor

3 HX (Lag HPF)

4 HX (Lag NPF)

Suffix

K pre-wired with capacitor, ignitor if required, & adapter mounting kit

Venture's High Performing Pulse Start Ballasts

Probe Start Fixture	Pulse Start Wattage	Product Number	Product Description	ANSI Code
1000W	875W	V90D8612K	QUAD CWA KIT	M166
		V90Y8612TK	480V & 120V TAP CWA KIT	M166
		V90D9610K	QUAD CWA KIT	M181
		V90Y9610TK	480V & 120V TAP CWA KIT	M181
		V90U5521K	277V REACTOR KIT	M178
775W	775W	V90D5530K	QUAD HX KIT	M178
		V90Y5530TK	480V & 120V TAP HX KIT	M178
575W	350W	V90D7513K	QUAD CWA KIT	M131
		V90D7530K	QUAD HX KIT	M131
		V90Y7513TK	480V & 120V TAP CWA KIT	M131
400W	350W	V90Y7530TK	480V & 120V TAP HX KIT	M131
		V90U7521K	277V REACTOR KIT	M131
320W	200W	V90D7413K	QUAD CWA KIT	M154
		V90D7430K	QUAD HX KIT	M154
		V90Y7412TK	480V & 120V TAP CWA KIT	M154
250W	200W	V90Y7430TK	480V & 120V TAP HX KIT	M154
		V90U7421K	277V REACTOR KIT	M154
175W	150W	V90D7312K	QUAD CWA KIT	M136
		V90Y7312TK	480V CWA & 120V TAP KIT	M136
		V90U7321K	277V REACTOR KIT	M136
125W	125W	V90D7110K	QUAD CWA KIT	M102
		V90D7131K	QUAD HX KIT	M102
		V90Y7110TK	480V & 120V TAP CWA KIT	M102
		V90U7121K	277V REACTOR KIT	M102
		V90D8812K	QUAD CWA KIT	M150
		V90U8820K	277 REACTOR KIT	M150

☑ = (E) Energy-efficient (≥88%) ballast: compliant with California Title 20 and federal Energy Independence & Security Act of 2007. Systems above 500 watts and below 150 watts are exempt from energy legislation requirements.