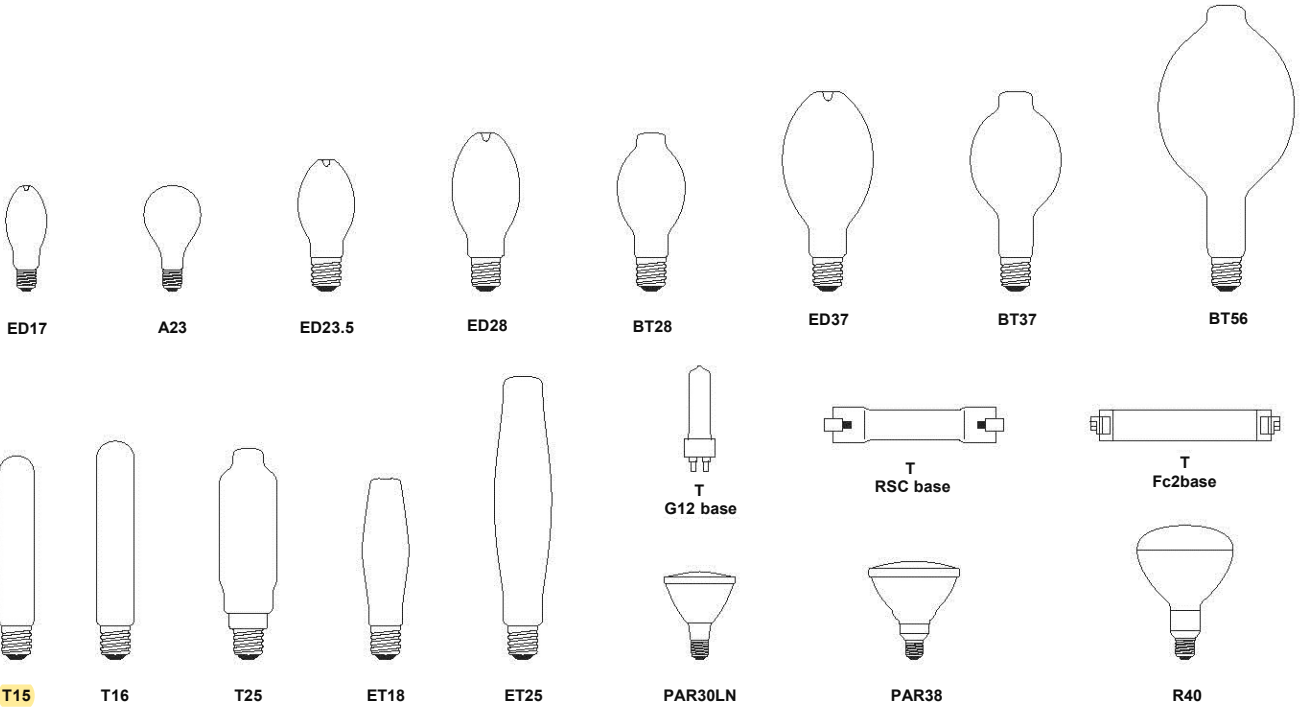
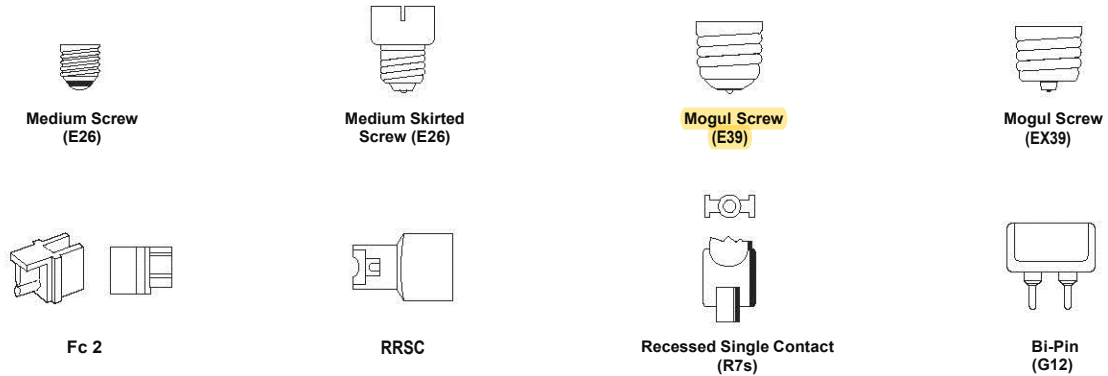


## BULBS

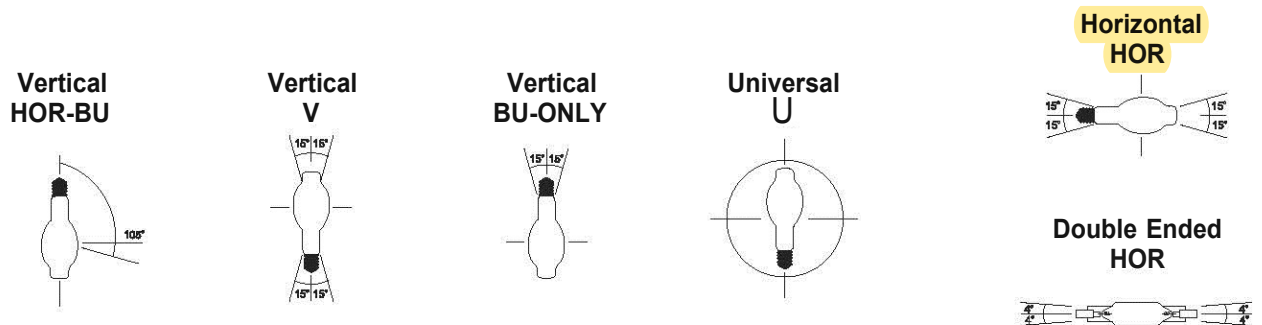
## HIGH INTENSITY DISCHARGE



## BASES



## OPERATING POSITIONS



# HIGH INTENSITY DISCHARGE

Pulse Start Metal Halide

Product Information							Physical Information				Photometric Characteristics						
Watts	Bulb	Base	Item#	Description	ANSI		Case Qty.	Finish	Operating Position	MOL (in)	LCL (in)	Initial Lumens (lm)	Mean Lumens (lm)	Avg. Life (Hrs)	Color Temp (K)	CRI	UPC
250	ED28	E39	1575	MS250/ED28/PS/U/4K	M153/E	M138/E	12	Clear	Universal	8.31	5.00	25000		15000	4200	65	844366015755
250	ED28	E39	1576	MS250/ED28/PS/BU/4K	M153/E	M138/E	12	Clear	BU ±15°	8.31	5.00	25000	20000	15000	4200	65	844366015762
250	ED28	E39	1577	MS250/ED28/C/PS/BU/4K	M153/E	M138/E	12	Coated	BU ±15°	8.31	5.00	23000	19000	15000	3800	70	844366015779
250	ED28	E39	1529	MS250/ED28/PS/V/4K	M153/E	M138/E	12	Clear	VER ±15°	8.31	5.00	25000	20000	15000	4200	65	844366015298
250	ED28	E39	1530	MS250/ED28/C/PS/V/4K	M153/E	M138/E	12	Coated	VER ±15°	8.31	5.00	23000	19000	15000	3800	70	844366015304
250	ED28	E39	1531	MS250/ED28/PS/H75/4K	M153/E	M138/E	12	Clear	HOR ±75°	8.31	5.00	22000	17600	15000	4200	65	844366015311
250	T15	E39	1532	MS250/T15/PS/H75/4K	M153/E	M138/E	24	Clear	HOR ±75°	9.76	5.75	22000	17600	15000	4200	65	844366015328
320	ED28	E39	1578	MS320/ED28/PS/U/4K	M154/E	M132/E	12	Clear	Universal	8.31	5.00	32000		20000	4200	65	844366015786
320	ED28	E39	1659	MS320/ED28/C/PS/U/4K	M154/E	M132/E	12	Coated	Universal	8.31	5.00	31000		20000	3800	70	844366016592
320	ED28	E39	1579	MS320/ED28/PS/HBU/3K	M154/E	M132/E	12	Clear	HOR-BU	8.31	5.00	33000		20000	3200	65	844366015793
320	ED28	E39	1580	MS320/ED28/C/PS/HBU/3K	M154/E	M132/E	12	Coated	HOR-BU	8.31	5.00	31000		20000	3200	70	844366015809
320	ED28	E39	1581	MS320/ED28/PS/HBU/4K	M154/E	M132/E	12	Clear	HOR-BU	8.31	5.00	32000		20000	4200	65	844366015816
320	ED28	E39	1582	MS320/ED28/C/PS/HBU/4K	M154/E	M132/E	12	Coated	HOR-BU	8.31	5.00	31000		20000	3800	70	844366015823
320	ED28	E39	1533	MS320/ED28/PS/V/4K	M154/E	M132/E	12	Clear	VER ±15°	8.31	5.00	33000	26000	20000	4200	65	844366015335
320	ED28	E39	1534	MS320/ED28/C/PS/V/4K	M154/E	M132/E	12	Coated	VER ±15°	8.31	5.00	32000	24800	20000	3800	70	844366015342
320	ED28	E39	1537	MS320/ED28/PS/H75/4K	M154/E	M132/E	12	Clear	HOR ±75°	8.31	5.00	30000	22000	20000	4200	65	844366015373
320	ED28	E39	1538	MS320/ED28/C/PS/H75/4K	M154/E	M132/E	12	Coated	HOR ±75°	8.31	5.00	27000	20000	20000	3800	70	844366015380
320	ED28	E39	1673	MS320/ED28/PS/HBU/5K	M154/E	M132/E	12	Clear	HOR-BU	8.31	5.00	30000	22000	20000	5000	65	844366016738
320	ED37	E39	1535	MS320/ED37/PS/V/4K	M154/E	M132/E	12	Clear	VER ±15°	11.50	7.01	33000	26000	20000	4200	65	844366015359
320	ED37	E39	1536	MS320/ED37/C/PS/V/4K	M154/E	M132/E	12	Coated	VER ±15°	11.50	7.01	32000	24800	20000	3800	70	844366015366
320	T15	E39	1540	MS320/T15/PS/H75/4K	M154/E	M132/E	24	Clear	HOR ±75°	11.50	7.01	31000	24000	20000	4200	65	844366015403

## Warning ANSI Luminaire Code E Enclosed Fixture

### Pulse Start Metal Halide

#### **THE FOLLOWING INSTRUCTIONS MUST BE FOLLOWED TO AVOID RISK OF PERSONAL INJURY, PROPERTY DAMAGE AND POOR LAMP PERFORMANCE.**

If the outer bulb is broken or punctured, immediately turn power off and remove lamp after it has cooled. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter.

#### **RUPTURE RISKS:**

Metal Halide arc-tubes are designed to operate under high pressure and at temperatures up to 2012 °F, 1100 °C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. An arc-tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot particles. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.

#### **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.

#### **CAUTION:**

- Only operate lamp in an enclosed fixture capable of withstanding particles of glass having temperatures up to 2012 °F, 1100 °C. If you are uncertain, contact your fixture manufacturer.
- Only operate lamp in the specified burning position with compatible electrical equipment.
- The ANSI code on the Plusrite lamp must match the code on the ballast or luminaire.
- Only operate lamp in an enclosed fixture with ultraviolet absorbing filter glass.
- Do not look directly at the operating lamp for any period of time. This may cause eye injury.
- Lamp must be turned off for a minimum of 15min. at least once a week.
- Never expose an operating lamp to moisture such as rain, sleet or snow.
- Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
- Periodically inspect the outer envelope. Replace lamp if scratched, cracked, or damaged.
- Electrically insulate any metal support in contact with the outer bulb to avoid glass decomposition.
- Before Lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards
- Install lamp firmly but not forcibly into the socket.
- If an arc tube is broken, avoid skin contact with any of the contents or fragments.
- Do not store combustible or flammable materials directly below the luminaire
- Never install the lamp into an ordinary household socket.
- All pulse start lamps require a socket rated to withstand a 4000 volt pulse.
- Safety glasses and gloves should be used when installing or removing HID lamps

#### **LAMP OPERATING CHARACTERISTICS**

Lamp requires several minutes to come to full brightness. Time should be allowed for lamps stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Color appearance may vary between individual lamps. It is further influenced by variation in the operating conditions and is not an indication of system or lamp failure. Lamp may require 10 to 20 minutes to restart if there is a power interruption.

#### **R WARNING**

This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation of outer envelope of the lamp is broken or punctured. Do not sure 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. This lamp complies with USA Federal Standard 21 CFR 1040.30 and Canada Standard SOR/80-381.

#### **HG LAMP CONTAINS MERCURY**

Manage in Accord with Disposal Laws Kr-85  
see [www.lamprecycle.org](http://www.lamprecycle.org)

MH50-MH150, MS175-MS1000/MSPS