



# Metal Halide Pulse Start Specifications

## 250 Watt Pulse Start Metal Halide Lamps

### Performance Data

Item #	Description	ANSI Designation	Light Output (Lumens @ 100 Hrs.)	Lamp Lumens Per Watt	Mean Output (Lumens)	Related Life (Hours @ 10 Hr./Start)	Correlated Color Temperature K	Chromaticity (CIE-X,Y)	Color Rendering Index (CRI)	Warm Up Time (Minutes)	Hot Restart Time (Minutes)	Burning Position
46222	MS 250W/V/PS	M153/E	25000	100	20000	15000	4000	.385	65	2-3	3-5	Vertical ±15°
		M138/E						.390				
46223	MS 250W/C/V/PS	M153/E	23800	95	19000	15000	3700	.395	70	2-3	3-5	Vertical ±15°
		M138/E						.390				
46226	MS 250W/HOR/PS	M153/E	22000	84	17600	15000	4000	.385	65	2-3	3-5	HOR ±45°
		M138/E						.390				
46224	MP 250W/BU/UVG/PS	M153/O	23800	95	19000	15000	4000	.385	65	2-3	4-6	BU±15°
		M138/O						.390				
46221	MP 250W/C/BU/UVG/PS	M153/O	22600	90	17600	15000	3700	.395	70	2-3	4-6	BU±15°
		M138/O						.390				

Note: C designates a coated outer jacket  
ANSI Designation: E =Enclosed rated luminaire, O = Open rated luminaire

### Physical Data / Requirements:

Base Designation -----	Mogul (E39)	Mogul (EX39)
Bulb Designation -----	ED28 (MS)	ED28(MP)
Bulb Diameter -----	3½"	3½"
Max. Overall Length (MOL) -----	8 <sup>5</sup> / <sub>16</sub> "	8 <sup>5</sup> / <sub>16</sub> "
Light Center Length (LCL) -----	5"	5"
Effective Arc Length -----	30.1 mm	30.1 mm
Max. Base Temperature (°C) -----	210	210
Max. Bulb Temperature (°C) -----	400	400
Luminaire Type -----	Enclosed	Open
Socket Pulse Rating (KV) -----	3-4	3-4
Socket Style -----	Mogul	Mogul

### Electrical Data / Requirements:

Lamp Wattage -----	250
Operating Voltage (Nominal) -----	133
Operating Current (Amps) -----	2.1
Min. Open Circuit Voltage (RMS) -----	254
Min-max starting pulse peak (Peak V) -----	3000-4000
Min. Pulse Width at 2700 volts (u sec) -----	1
Min. Pulse Rate per ½ Cycle -----	1
Pulse Position (Min. % OCV Peak) -----	90

### Notes:

Mean lumen rating based on typical CWA field ballast operating characteristics.

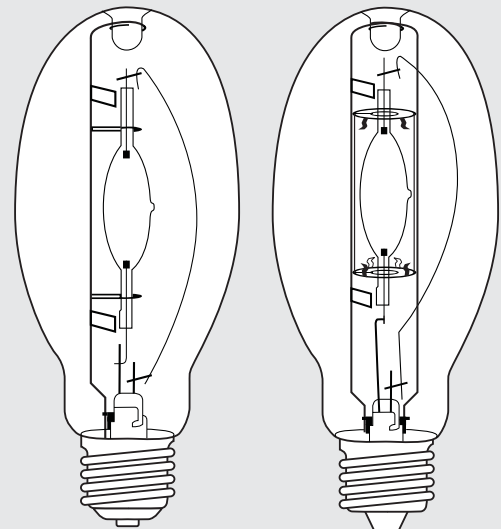
Lamps are not warranted for rated life when operated on ballasts with less than the 270V minimum sustaining voltage (V<sub>ss</sub>) required in new ANSI specifications.

Contact ballast manufacturer to find out if their CWA ballasts meet this and other specification requirements.

Pulse Start lamps require an ignitor for starting.

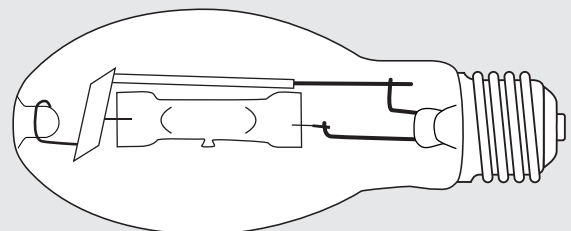
UV Guard™ reduces normal UV emissions up to 90%.

Special open rated socket is required (EX39) on mogul based open rated lamps.



ED28  
Mogul Base  
Enclosed Rated

ED28  
EX39 Mogul Base  
Open Rated



ED28 Horizontal  
Mogul Base  
Enclosed Rated