



Metal Halide Pulse Start Specifications

400 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
46274	MS 400W/V/PS	M155/E	44000	110	35000	20000	4000	.385	65	2-3	4-6	Vertical ±15°
		M135/E						.390				
46275	MS 400W/C/V/PS	M155/E	42000	105	33000	20000	3700	.395	70	2-3	4-6	Vertical ±15°
		M135/E						.390				
46273	MS 400W/C/V/ED28/PS	M155/E	42000	105	33000	20000	3700	.395	70	2-3	4-6	Vertical ±15°
		M135/E						.390				
46280	MP 400W/BU/UVG/PS	M155/O	41000	102	33000	20000	4000	.385	65	2-3	5-8	BU±15°
		M135/O						.390				
46279	MP 400W/C/BU/ED28/UVG/PS	M155/O	39000	98	31000	20000	3700	.395	70	2-3	5-8	BU±15°
		M135/O						.390				
46284	MS 400W/HOR/PS	M155/E	38000	95	28500	15000	4000	.385	65	2-3	4-6	HOR±45°
		M135/E						.390				

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

Physical Data / Requirements:

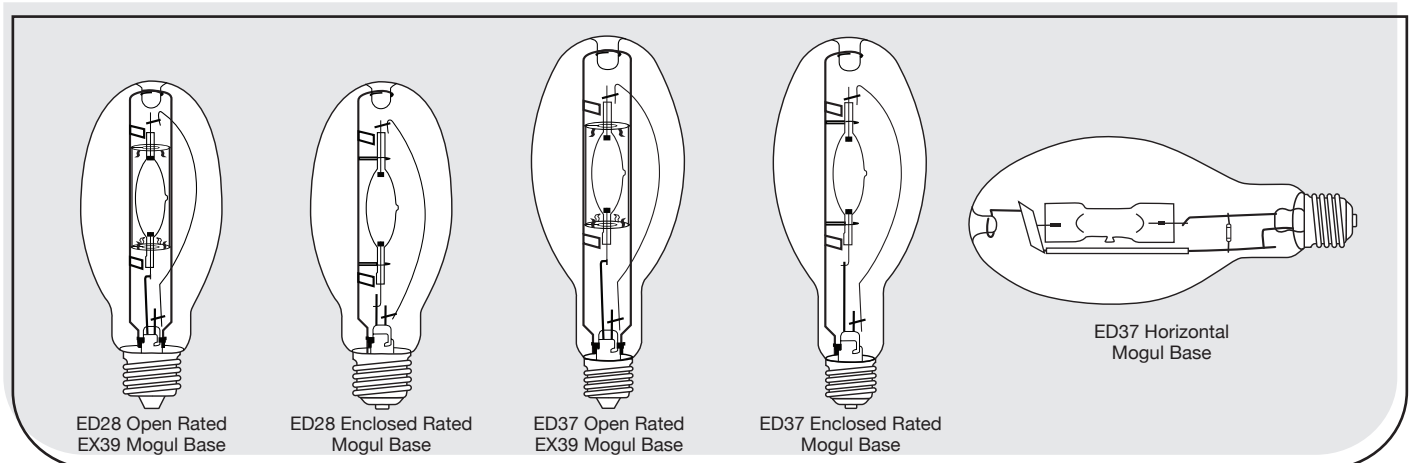
	Mogul (E39)	Mogul (EX39)	Mogul (E39)	Mogul (EX39)
Base Designation	ED37 (MS)	ED37 (MP)	ED28 (MS)	ED28 (MP)
Bulb Designation	4 5/8"	4 5/8"	3 1/2"	3 1/2"
Bulb Diameter	11 1/2"	11 1/2"	8 5/16"	8 5/16"
Max. Overall Length (MOL)	7"	7"	5"	5"
Light Center Length (LCL)	43.9 mm	43.9 mm	43.9 mm	43.9 mm
Effective Arc Length	210	210	230	230
Max. Base Temperature (°C)	400	400	450	450
Max. Bulb Temperature (°C)	Enclosed	Open	Enclosed	Open
Luminaire Type	3-4	3-4	3-4	3-4
Socket Pulse Rating (KV)	Mogul	Mogul	Mogul	Mogul
Socket Style				

Electrical Data / Requirements:

Lamp Wattage	400
Operating Voltage (Nominal)	135
Operating Current (Amps)	3.2
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 1/2 Cycle	1
Pulse Position (Min. % OCV Peak)	90

Notes:

Special open rated socket is required (EX39) for MP lamps.
 UV Guard™ reduces normal UV emissions by 90%.
 MP lamps are open luminaire rated and contain shrouded arc tubes.
 Lamps are not warranted for rated life when operated on ballasts with less than the 270V minimum sustaining voltage (Vss) 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.



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