

## 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	40000	95	32000	12000	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 (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.

