



Metal Halide Pulse Start Specifications

320 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
46232	MS 320W/V/ED37/PS	M154/E M132/E	33000	103	26000	20000	4000	.385 .390	65	2-3	4-6	Vertical ±15°
46233	MS 320W/C/V/ED37/PS	M154/E M132/E	31000	97	25000	20000	3700	.395 .390	70	2-3	4-6	Vertical ±15°
46236	MS 320W/V/ED28/PS	M154/E M132/E	33000	103	26000	20000	4000	.385 .390	65	2-3	4-6	Vertical ±15°
46231	MS 320W/C/V/ED28/PS	M154/E M132/E	31000	97	25000	20000	3700	.395 .390	70	2-3	4-6	Vertical ±15°
46240	MP 320W/BU/ED28 UVG/PS	M154/O M132/O	31000	97	25000	20000	4000	.385 .390	65	2-3	5-8	BU±15°
46237	MP 320W/C/BU/ED28 UVG/PS	M154/O M132/O	29000	91	23000	20000	3700	.395 .390	70	2-3	5-8	BU±15°
46242	MP 320W/BU/ED37 UVG/PS	M154/O M132/O	31000	97	25000	20000	4000	.385 .390	65	2-3	5-8	BU±15°
46239	MP 320W/C/BU/ED37 UVG/PS	M154/O M132/O	29000	91	23000	20000	3700	.395 .390	70	2-3	5-8	BU±15°

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)	Mogul (E39)	Mogul (EX39)
Bulb Designation -----	ED28 (MS)	ED28 (MP)	ED37 (MS)	ED37 (MP)
Bulb Diameter -----	3½"	3½"	4⅝"	4⅝"
Max. Overall Length (MOL) ----	8⅞"	8⅞"	11½"	11½"
Light Center Length (LCL) ----	5"	5"	7"	7"
Effective Arc Length -----	25.0 mm	25.0 mm	25.0 mm	25.0 mm
Max. Base Temperature (°C) --	230	230	230	230
Max. Bulb Temperature (°C) ---	450	450	400	400
Luminaire Type -----	Enclosed	Open	Enclosed	Open
Socket Pulse Rating (KV) -----	3-4	3-4	3-4	3-4
Socket Style -----	Mogul	Mogul	Mogul	Mogul

Electrical Data / Requirements:

Lamp Wattage -----	320
Operating Voltage (Nominal) -----	135
Operating Current (Amps) -----	2.63
Min. Open Circuit Voltage (RMS) -----	254
Min-max starting pulse peak (Peak V) -----	3000-4000
Min. Pulse Width at 2700 volts -----	1
Min. Pulse Rate per ½ Cycle -----	1
Pulse Position (Min. % OCV Peak) -----	90

Notes:

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.

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

