



Product Specification Bulletin

400 Watt

PULSE START

UNI-FORM[®]
PULSE START SYSTEM

Coated - 4K
Open or Enclosed Luminaire
Featuring UV Shield[®]



VERTICAL ± 15°

MP 400W/CN/ED28/UVS/PS/737		Product Number	88648
Lamp Type		SINGLE ENDED METAL HALIDE	
ANSI Designation		M135, M155/O	
Performance Data			
	<i>Light Output (Lumens @ 100 Hrs.)</i>	39000	
	<i>Lamp Lumens Per Watt</i>	98	
	<i>Mean Output (Lumens)</i>	31000	
	<i>Rated Life (Hrs. @ 10 Hr. / Start)</i>	20000+	
	<i>Correlated Color Temperature K</i>	3700	
	<i>Chromaticity (CIE -X,Y)</i>	.395 .390	
	<i>Color Rendering Index (CRI)</i>	70	
	<i>Typical Warm Up Time (Minutes)</i>	2-3	
	<i>Typical Hot Restart Time (Minutes)</i>	5-8	
	<i>Burning Position</i>	VERTICAL ± 15°	
Physical Data / Requirements			
	<i>Base Designation</i>	MOGUL (EX39)	
	<i>Bulb Designation</i>	ED28	
	<i>Bulb Diameter</i>	3 1/2"	
	<i>Max. Overall Length (MOL)</i>	8 5/16"	
	<i>Light Center Length (LCL)</i>	5"	
	<i>Effective Arc Length</i>	N/A	
	<i>Max. Base Temperature (°C)</i>	230	
	<i>Max. Bulb Temperature (°C)</i>	450	
	<i>Luminaire Type</i>	OPEN/ENCLOSED	
	<i>Socket Pulse Rating (KV)</i>	4	
	<i>Socket Style</i>	OPEN RATED EX39	
Electrical Data / Requirements			
	<i>Lamp Wattage</i>	400	
	<i>Operating Voltage (Nominal)</i>	135	
	<i>Operating Current (Amps)</i>	3.2	
	<i>Min. Open Circuit Voltage (RMS)</i>	254	
	<i>Min. -Max. Starting Pulse (Peak V)</i>	3000-4000	
	<i>Min. Pulse Width At 2700 Volts (u sec)</i>	1	
	<i>Min. Pulse Rate Per 1/2 Cycle</i>	1	
	<i>Pulse Position (Min. % OCV Peak)</i>	90	
Revision:	11/9/2006	1707 - 16	
Notes			
<ul style="list-style-type: none"> ▶ UV Shield eliminates nearly all UV emissions; reducing color fading and lens yellowing. ▶ These lamps are Type-O (open luminaire) rated and contain shrouded arc tubes. ▶ Lamps are not warranted for rated life when operated on ballasts with less than the 270V sustaining voltage (Vss) required in ANSI specifications. 			
Lamps	<p>THIS LAMP CONFORMS TO FEDERAL STANDARD 21 CFR 1040.30</p> <p>Warning: This lamp can cause skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use 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 outer envelope is broken or punctured are commercially available.</p>		