



# Product Specification Bulletin

400 Watt

PULSE START

**UNI-FORM**  
PULSE START SYSTEM

Clear - 4K  
Vertical High Output  
Featuring UV Shield®



**MP 400W/BU/ED28/UVS/PS** **Product Number** **12445**

**Lamp Type** SINGLE ENDED METAL HALIDE

**ANSI Designation** M135, M155/O

<b>Performance Data</b>	
<i>Light Output (Lumens @ 100 Hrs.)</i>	42000
<i>Lamp Lumens Per Watt</i>	105
<i>Mean Output (Lumens)</i>	33600
<i>Rated Life (Hrs. @ 10 Hr. / Start)</i>	20000+
<i>Correlated Color Temperature K</i>	4000
<i>Chromaticity (CIE -X, Y)</i>	.385 .390
<i>Color Rendering Index (CRI)</i>	65
<i>Typical Warm Up Time (Minutes)</i>	2-3
<i>Typical Hot Restart Time (Minutes)</i>	5-8
<i>Burning Position</i>	BASE UP ± 15°

<b>Physical Data / Requirements</b>	
<i>Base Designation</i>	MOGUL/OPEN (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>	43.9 mm
<i>Max. Base Temperature (°C)</i>	230
<i>Max. Bulb Temperature (°C)</i>	450
<i>Luminaire Type</i>	OPEN
<i>Socket Pulse Rating (KV)</i>	4
<i>Socket Style</i>	OPEN LUMINAIRE MOGUL (EX39)

<b>Electrical Data / Requirements</b>	
<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:** 6/5/2002 **1859 - 7**

- Notes**
- ▶ UV Shield reduces normal UV emissions by 70-80%.
  - ▶ Special open rated socket is required (EX39). These 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. All Venture ballasts meet these new specifications

**Lamps**

**THIS LAMP CONFORMS TO FEDERAL STANDARD 21 CFR 1040.30**  
**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.**