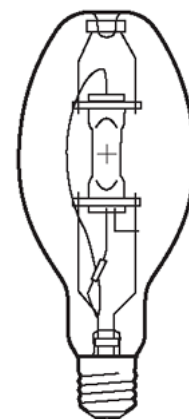


## Lamps for Special Applications Dual Metal Halide Lamps

Description: HIE 400W/C/V/DU/4.5K

### Performance Data

	Mercury	HPS
<b>Rated Light Output (Lumens @ 100 hours)</b>	32000	40000
<b>Lamp Lumens per Watt</b>	79	87
<b>Rated Life (Hrs @ 10Hr./Start)</b>	15000	15000
<b>Correlated Colour Temperature (K)</b>	4500	4200
<b>Chromaticity (CIE - X Y)</b>	364,371	364,371
<b>Colour Rendering Index (CRI) or (Ra)</b>	70	70
<b>Typical Warm Up Time (Minutes)</b>	3-5	3-5
<b>Typical Hot Restart Time (Minutes)</b>	5-10	5-10
<b>Burning Position</b>	Vertical±15°	
<b>Energy Rating (ErP)</b>	A 444 kWh/1000h	A 506 kWh/1000h

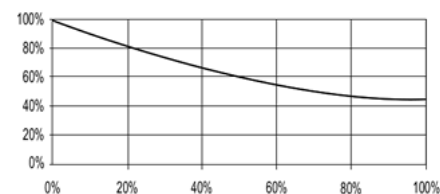


### Physical Data

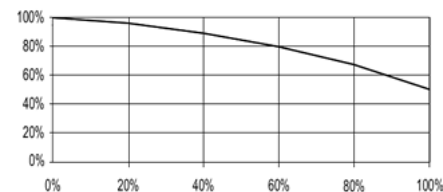
	Mercury	HPS
<b>Base Designation</b>	E40	
<b>Bulb Designation</b>	E120	
<b>Bulb Diameter (mm)</b>	120	
<b>Max. Overall Length (mm)</b>	296	
<b>Light Centre Length (mm)</b>	182	
<b>Max. Base Temperature (°C)</b>	250	
<b>Max. Bulb Temperature (°C)</b>	500	
<b>Luminaire Type</b>	Enclosed	
<b>Socket Pulse Rating (KV)</b>	4.5	
<b>Mercury Content (mg)</b>	35	

### Lamp Electrical Data

	Mercury	HPS
<b>Nominal Lamp Wattage (W)</b>	404	460
<b>Lamp Operating Voltage (V)</b>	130	135
<b>Lamp Operating Current (A)</b>	3.5	3.7
<b>Min. Open Circuit Voltage (RMS)</b>	198	198
<b>Min. Starting Pulse (Peak V)</b>	600	600
<b>Min. Pulse Width (Microseconds)</b>	260 @540V	260 @540V
<b>Min. Pulse Rate Per ½ cycle</b>	1	1
<b>Pulse Position (Electrical Degrees)</b>	60-90, 240-270	60-90, 240-270



Lumen Maintenance (Light Output vs. Rated Life)



Lamp Mortality (Survivors vs. Rated Life)

Revision: 20-09-2013

\*\*See page 2 for product notes\*\*

## Lamps for Special Applications Dual Metal Halide Lamps

### Notes:

This lamp is also compatible with a 3.0-4.5kV ignitor

This Product Specification contains data about typical performance at nominal power. Actual values may depend on ballast and applications. Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives.