



# TECHNICAL BULLETIN

## MERCURY VAPOR LAMP

### Mercury Vapor H400

ANSI Code: H33

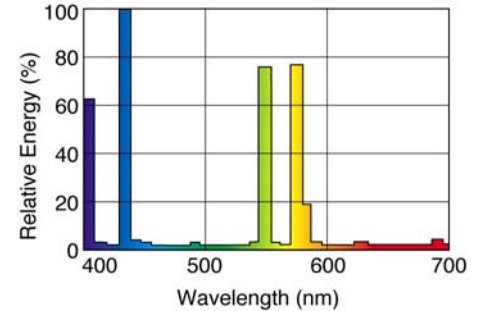
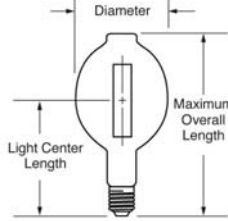
Product Code: 69868

**Features:**

- Long life
- Nickel-plated base
- Rugged construction
- Applications: Roadway, Landscape, Factory, Sports, Parking, Security

### PERFORMANCE DATA

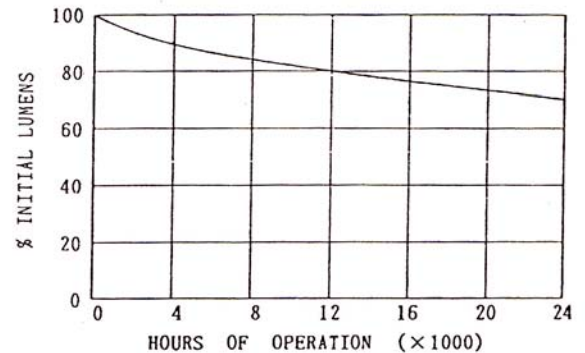
Initial lumens at rated watts after 100 hours operation	21000	lm
Mean lumens at 10 hours/start	17136	lm
Rated average life	24000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	5700	K
CIE chromaticity	0.327, 0.381	x, y
Color rendering index	20	
Operating Position	Universal	
Time to hot re-start	10 max.	min



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	135	V
Nominal lamp current	3.2	Arms
Current crest factor (max)	2	
<b>Ballast requirements</b>		
Open circuit voltage	225	Vrms
-30°C (-22°F)	318	Vpeak
Min. starting current	3.1	Arms
Max. starting current	7.5	Arms

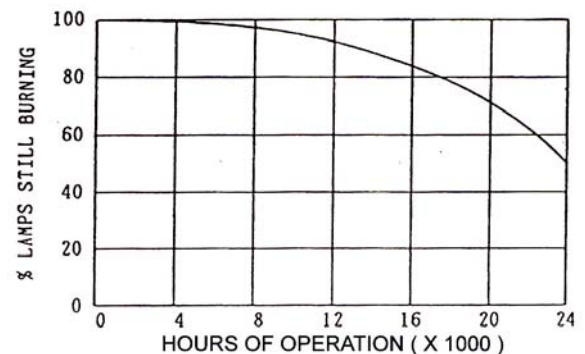
### LUMEN MAINTENANCE



### PHYSICAL DESCRIPTION

Effective arc length	70 (2.76)	mm (in)
Maximum overall length	291 (11.5)	mm (in)
Light center length	185 (7.3)	mm (in)
Bulb diameter	116 (4.6)	mm (in)
Base to bulb eccentricity (max)	4	deg
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	BT37	
Bulb material	Borosilicate Glass (Hard Glass Lead Free)	
Arc tube material	Quartz	
Bulb finish	Clear	
Base designation	E39 Mogul	
Base Solder (one side only)	Sn (tin) 5% and Pb (lead) 95%	

### LAMP MORTALITY



ISO 9001:2008 Certified ISO 14001:2004 Certified OHSAS 18001:2007 Certified ISO 17025:2005 Accredited



**EYE LIGHTING INTERNATIONAL**  
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### ⚠WARNING

This lamp can cause serious skin burn and eye inflammation from short-wave 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 the outer envelope is broken or punctured are commercially available.

#### RISK OF ELECTRIC SHOCK

- Turn power off before inspection, installation or removal
- Protect lamp from direct contact with liquids to avoid breakage from thermal shock

#### RISK OF FIRE

- Keep combustible materials away from lamp during operation

#### UNEXPECTED LAMP RUPTURE MAY CAUSE INJURY, FIRE, OR PROPERTY DAMAGE

- Do not exceed rated ballast voltage
- Do not use lamp if outer glass is scratched or broken.
- Do not use beyond rated life
- Do not turn on lamp until fully installed
- Use only with a fixture and ballast rated for this product
- Turn lamp off at least once a week for 15 minutes
- Electrically insulate any metal to glass support in fixture

### ⚠CAUTION

#### RISK OF BURN

- Allow lamp to cool before handling.

#### LAMP MAY SHATTER AND CAUSE INJURY

- Do not use excessive force when installing lamp
- Dispose of lamp in a closed container

### LAMP OPERATING INSTRUCTIONS

This is a discharge lamp and requires some time to restart and come up to full brightness after a power interruption. If power supply dips or is interrupted, lamps may extinguish and not restart. Turn off power supply for 10-15 minutes and allow lamp to fully cool. Lamp will restart when power is restored.

<b>R</b>	Conforms to: USA: 21CFR1040.30 Canada: ANSI 136.1-2000
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 - LAMP CONTAINS MERCURY. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677.



ISO 9001:2008 Certified ISO 14001:2004 Certified OHSAS 18001:2007 Certified ISO 17025:2005 Accredited



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