ANSI Code: 51837

Features:
- Works in all HPS lighting systems with an ignitor
- Improves color rendering index from 20 CRI to 60 CRI
- Excellent lamp to lamp color consistency
- Nickel-plated base
- Applications-Parking lots, manufacturing, warehouse

PERFORMANCE DATA

| Initial lumens at rated watts | 36600V | lm |
| Mean lumens at 10 hours/start | 27300V | lm |
| Average life | 20000V | h |
| Warm up time, maximum | 4 | min |
| Correlated color temperature | 4500 | K |
| CIE chromaticity | 0.364, 0.381 | x, y |
| Color rendering index (Ra) | 65 |
| Operating Position | Base up-Horizontal |
| Time to hot re-start, maximum | 15 | min |

ELECTRICAL CHARACTERISTICS

- Nominal lamp wattage: 400 W
- Nominal lamp voltage: 100 V
- Nominal lamp current: 4.6 A<sub>lm</sub>
- Maximum current crest factor: 1.8
- Maximum starting current: 7.5 A<sub>lm</sub>
- Minimum starting current: 4.6 A<sub>lm</sub>
- Ballast requirements: Use with ballast rated for ANSI S51 lamp
- Open circuit voltage (CWA): 175 V<sub>lm</sub>
- Lampholder voltage rating: 4 kV

IGNITOR REQUIREMENTS

- Min. Pulse Height: 2500 V
- Max. Pulse Height: 4000 V
- Min. Pulse Width: 1.0@2250 µsec@V
- Min. Pulse repetition: 1 half cycle
- Pulse Positions: 60-90, 240-270 degrees

PHYSICAL DESCRIPTION

- Maximum overall length: 291 (11.45) mm (in)
- Light center length: 146 (5.75) mm (in)
- Bulb diameter: 117 (4.63) mm (in)
- Max. base - bulb eccentricity: 3 deg
- Maximum base temperature: 210 (410) °C (°F)
- Maximum bulb temperature: 400 (752) °C (°F)
- Bulb designation: BT37
- Bulb material: Borosilicate (Hard Glass)
- Arc tube material: Quartz
- Effective arc length: 42 (1.65) mm (in)
- Bulb finish: Clear
- Base designation: E39 Mogul

FIXTURE REQUIREMENT

- E Rated-Enclosed, universal burning position
- S Rated-Open fixture, base up or base down +/- 15°
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.

Conforms to:
USA: 21CFR1040.30
Canada: ANSI 136.1-2000

Hg-LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org or 1-888-665-2677