



# TECHNICAL BULLETIN HIGH PRESSURE SODIUM LAMP

## HORTILUX Ultra Ace™ NHT940B/HTL/EN

ANSI Code: M47

Product Code: 61825

**Features:**

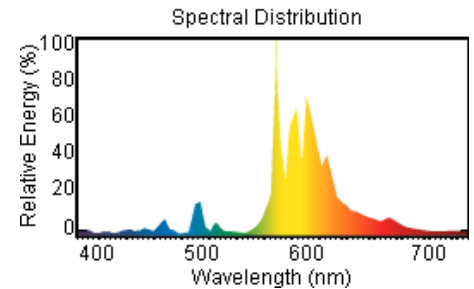
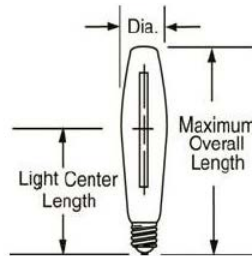
- Converts Metal Halide to HPS by simply changing the lamp
- Universal burning position
- EPA TCLP compliant for non-hazardous waste



*Environmentally Friendly™*  
Reduced Mercury and 100% lead free!

### PERFORMANCE DATA

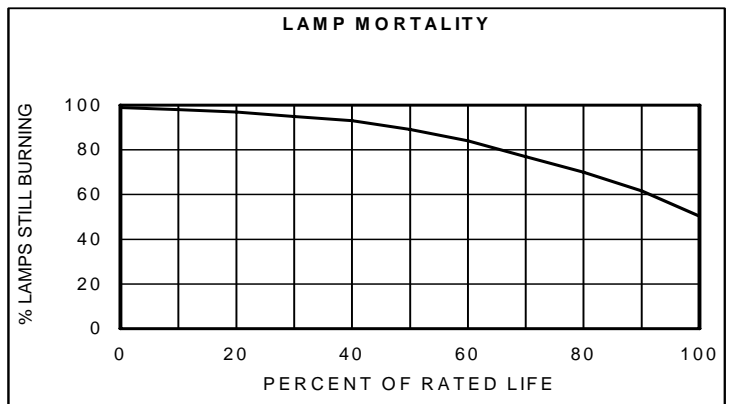
Initial lumens at rated watts after 100 hours operation	130000	lm
Mean lumens at 10 hours/start	117000	lm
Rated average life	24000	h
Warm up time (90% lumens)	5	min
Correlated color temperature	2100	K
CIE chromaticity	0.532, 0.422	x,y
Color rendering index	25	
Operating Position	Universal	
Time to hot re-start	15 max.	min



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	940	W
Nominal lamp voltage	265	V
Nominal lamp current	4.1	Arms
Current crest factor	1.8 max.	
Max. starting current	9.5	Arms
Ballast requirements	Use with ballast rated for M47 lamps	
Min. rms starting voltage	375	V <sub>rms</sub>
Min. peak starting voltage	530	V <sub>peak</sub>
Lamp holder rating	2	kV

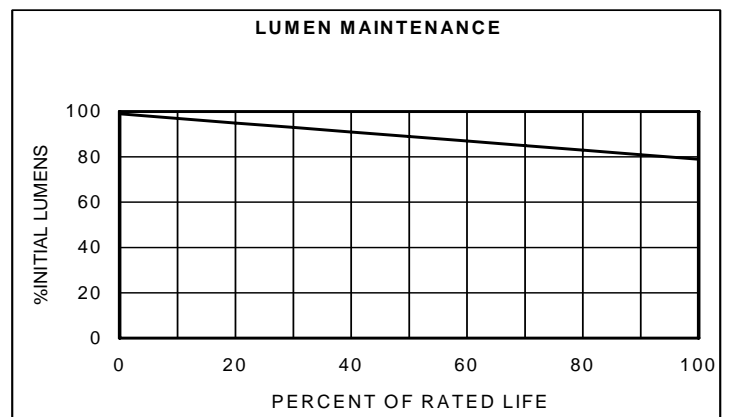
### LAMP MORTALITY



### PHYSICAL DESCRIPTION

Maximum overall length	383(15.079)	mm (in)
Light center length	222 (8.740)	mm (in)
Bulb diameter	79 (3.110)	mm (in)
Base to bulb eccentricity (max)	3	deg
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	E25	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Alumina	
Bulb finish	Clear	
Base designation	E39 Mogul	
EPA TCLP Compliant / Lead Free	Yes	

### LUMEN MAINTENANCE



ISO 9001:2000 Certified



**EYE LIGHTING INTERNATIONAL  
OF NORTH AMERICA, INC.**  
A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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**⚠WARNING**

**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 fixture and ballast rated for this product.
- Electrically insulate any metal to glass support in fixture.

**⚠CAUTION**

**RISK OF BURN:**

- Allow lamp to cool before handling.
- Contains sodium – Avoid skin contact with broken pieces.

**LAMP MAY SHATTER AND CAUSE INJURY IF BROKEN**

- Do not use excessive force when installing lamp.
- Dispose of lamp in an enclosed container.
- Wear safety glasses and gloves when installing lamp.

**Hg-LAMP CONTAINS MERCURY**  
Manage in Accord with Disposal Laws  
See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677

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