



# TECHNICAL BULLETIN METAL HALIDE

## EYE HORTILUX- BLUE™ MT1000B-D/HOR/HTL-BLUE

**ANSI Code:** Use with ballast rated for ANSI M47 lamp

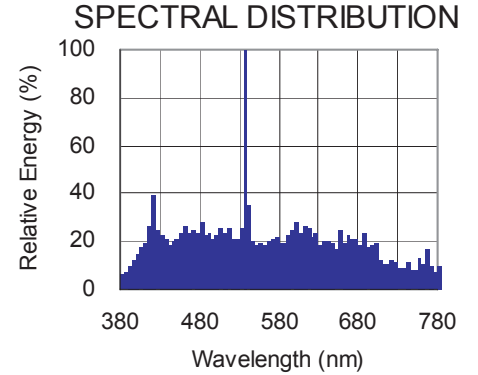
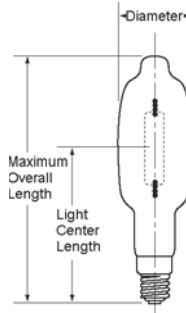
**Product Code:** 57945

**Features:**

- Exclusive Iwasaki chemistry provides ratios of Red, Blue, and Green that better meet the needs of plants
- Designed to grow high quality natural-looking plants during all phases of their growth cycles
- Used Professionally in plant Physiological research, Biotechnology, and Pharmacology

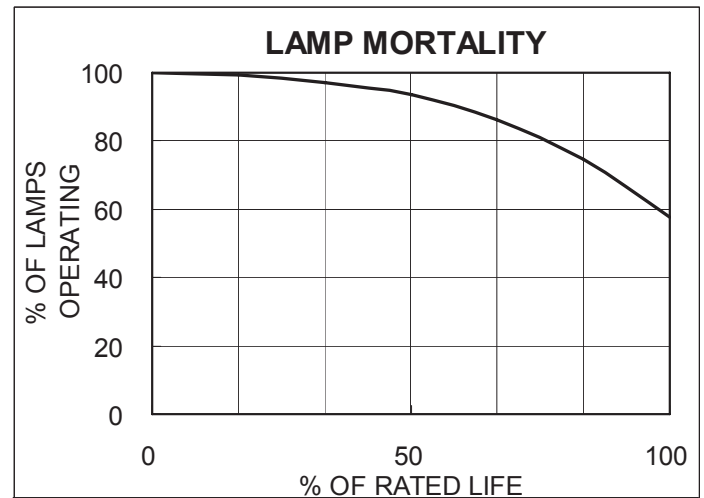
### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	80000	lm
Mean lumens at 10 hours/start	64000	lm
Rated average life at 10hrs/start	6000	h
Warm up time, maximum	4	min
Correlated color temperature	5500	K
CIE chromaticity	0.33, 0.35	X, Y
Color rendering index (Ra)	92	
Operating Position	HOR±15°	
Time to hot re-start, maximum	15 max.	min



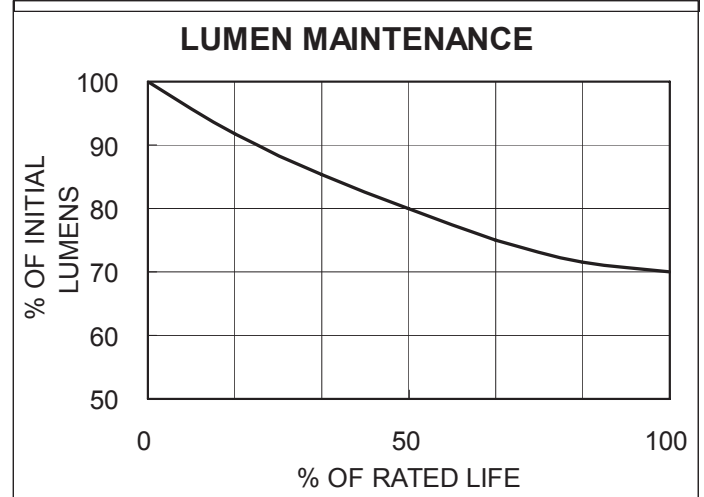
### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	1000	W
Nominal lamp voltage	255	V
Nominal lamp current	4.2	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	5.7	A <sub>rms</sub>
Minimum starting current	-	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI M47 lamp	
Open circuit voltage (CWA) -30°C (-22°F)	530	V <sub>rms</sub>
	750	V <sub>peak</sub>
Pulse requirements	None	



### PHYSICAL DESCRIPTION

Maximum overall length	395 (15.551)	mm (in)
Light center length	245 (9.646)	mm (in)
Bulb diameter	120 (4.724)	mm (in)
Max. base - bulb eccentricity	3 max.	Degrees
Maximum base temperature	230 (446)	°C (°F)
Maximum bulb temperature	470 (878)	°C (°F)
Bulb designation	T120	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	55 (2.165)	mm (in)
Bulb finish	Clear	
Base designation	E39 Mogul	



### FIXTURE REQUIREMENT

E Rated - Enclosed fixture required

ISO 9001:2000 Certified    ISO 14001:2004 Certified  
**EYE LIGHTING INTERNATIONAL**  
**OF NORTH AMERICA, INC.**  
*A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.*

OSHAS 18001:1999 Certified    ISO 17025:2005 Accredited

Address: 9150 Hendricks Rd., Mentor, OH 44060  
 Phone: 888-665-2677    Fax: 800-811-7395    E-Mail: sales@eyelighting.com  
 Phone: (440) 350-7000    Fax: (440) 350-7001    Web: www.eyelighting.com  
 www.eyehortilux.com



# TECHNICAL BULLETIN

## METAL HALIDE

EYE HORTILUX- BLUE™  
MT1000B-D/HOR/HTL-BLUE

### ⚠ 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.

**R**

Conforms to:  
USA: 21CFR1040.30

### Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677

ISO 9001:2000 Certified

ISO 14001:2004 Certified

OSHAS 18001:1999 Certified

ISO 17025:2005 Accredited



**EYE LIGHTING INTERNATIONAL**  
**OF NORTH AMERICA, INC.**

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

Address: 9150 Hendricks Rd., Mentor, OH 44060

Phone: 888-665-2677 Fax: 800-811-7395

E-Mail: [sales@eyelighting.com](mailto:sales@eyelighting.com)

Phone: (440) 350-7000 Fax: (440) 350-7001

Web: [www.eyelighting.com](http://www.eyelighting.com)

[www.eyehortilux.com](http://www.eyehortilux.com)