



TECHNICAL BULLETIN METAL HALIDE

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

ANSI Code: Use with ballast rated for ANSI M47 lamp

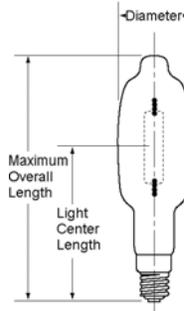
Product Code: 57945

Features:

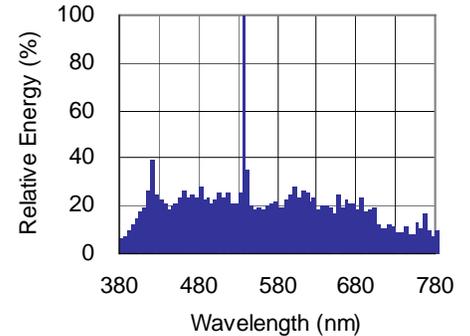
- Exclusive Iwasaki chemistry provides ratios of Red, Blue, and Green that better meet the needs of plants
- Designed to grow high quality natural-looking plants during all phases of their growth cycles
- Used Professionally in plant Physiological research, Biotechnology, and Pharmacology

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



SPECTRAL DISTRIBUTION



ELECTRICAL CHARACTERISTICS

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

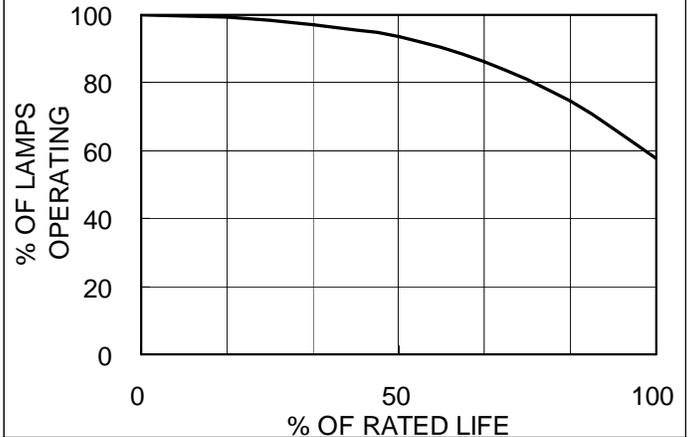
PHYSICAL DESCRIPTION

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	

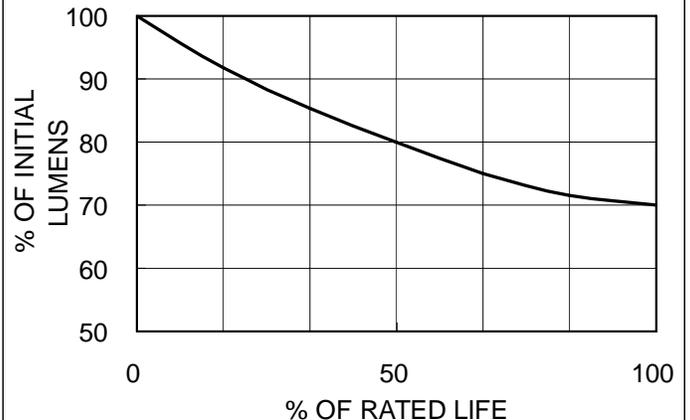
FIXTURE REQUIREMENT

E Rated - Enclosed fixture required

LAMP MORTALITY



LUMEN MAINTENANCE



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

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 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 or 1-888-665-2677

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