



# TECHNICAL BULLETIN METAL HALIDE

## EYE Multi Metal<sup>™</sup> MF175/BU/PS/ED28

SPEC **M137/M152E**

Product Code: **54309**

### Features:

- High Output, Position Oriented Metal Halide
- High initial and maintained lumens
- Superior lamp to lamp color consistency
- Pulse Start Performance

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	16600	lm
Mean lumens at 10 hours/start	13300	lm
Rated average life at 120hrs/start	NA	h
Rated average life at 10hrs/start	15000	h
Warm up time, typical	1-2	min
Correlated color temperature	3700	K
CIE chromaticity	0.395, 0.390	X, Y
Color rendering index (Ra)	70	
Operating Position	Base Up	
Time to hot re-start, typical	2-4	min

### ELECTRICAL CHARACTERISTICS

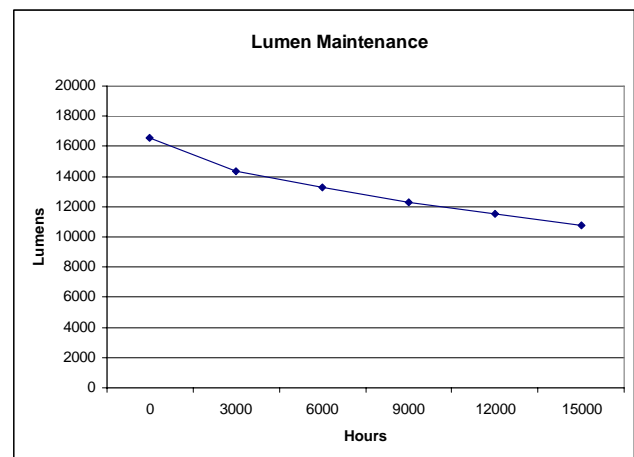
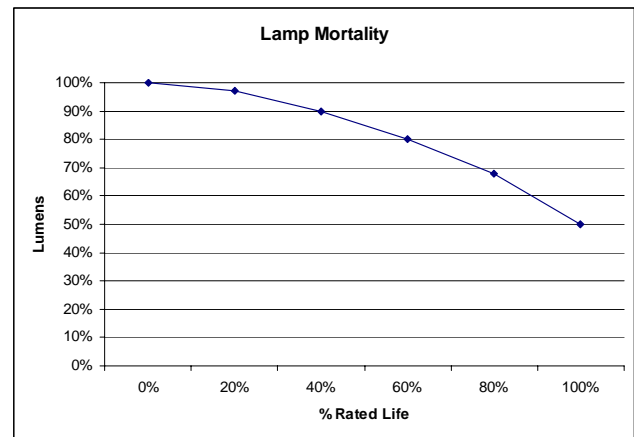
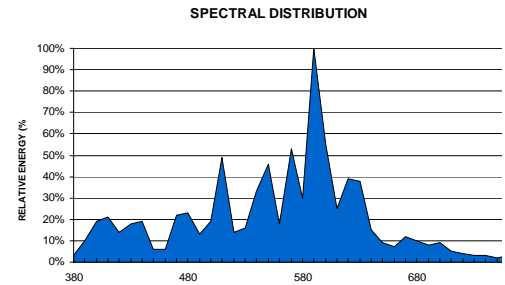
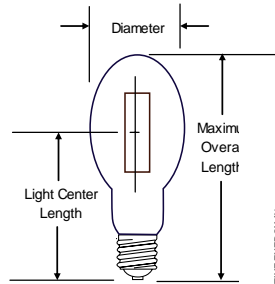
Nominal lamp wattage	175	W
Nominal lamp voltage	132	V
Nominal lamp current	1.5	A <sub>rms</sub>
Maximum current crest factor	NA	-
Maximum starting current	NA	A <sub>rms</sub>
Minimum starting current	NA	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI M137/M152/E lamp	
Open circuit voltage -30°C (-22°F)	254	V <sub>rms</sub>
		V <sub>peak</sub>
Igniter requirements	Ignitor	
Minimum pulse height	3	kV
Maximum pulse height	4	kV
Minimum pulse width	1.3	us@ 2.7kV
Minimum pulse repetition rate	1	Per half cycle
Pulse position(s)	64°-110°, 244°-290°	°(cycle)

### PHYSICAL DESCRIPTION

Maximum overall length	211 (8.31)	mm (in)
Light center length	127 (5.0)	mm (in)
Bulb diameter	89 (3.5)	mm (in)
Max. base - bulb eccentricity		Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	ED28	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	20.6 (.81)	mm (in)
Bulb finish	Phosphor Coated	
Base designation	E39 Mogul	
Base finish	Nickel plated	

### FIXTURE REQUIREMENT

E Rated - Enclosed fixture. Operating position base up.



ISO 9001:2008 Certified

ISO 14001:2004 Certified

OSHAS 18001:2007 Certified

ISO 17025:2005 Accredited



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

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April 9, 2009



**⚠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

**FIXTURE REQUIREMENT**

E Rated - Enclosed fixture. Operating position base up through horizontal.

**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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