

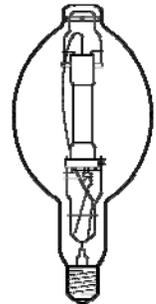
# SportStar® Multi-Vapor®

1500 Watt High Output Metal Halide Lamp - Clear

Ordering Code: 47326      Description: MVR1500/U/SPORTS      ANSI Code: M48/E      Case Quantity: 6

## PHYSICAL CHARACTERISTICS

Burning Position	Universal
Bulb Designation	BT-56
Bulb Material (finish)	Heat Resistant Glass (Clear)
Bulb Nominal Diameter	177.8mm (7")
Base Designation	E39
Base Type (Material)	Mogul Screw (Copper Alloy)
Light Center Length	243.0mm (9-1/2")
Maximum Overall Length	382.6mm (15-1/16")
Arc Length	88.9mm (3-1/2")
Maximum Permissible Bulb Temperature	430° C
Maximum Permissible Base Temperature	210° C
Maximum Bulb to Base Eccentricity	4°
Maximum Bulb to Arc Eccentricity	3°



## LUMINAIRE CHARACTERISTICS

Luminaire Type	Enclosed Only
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## PHOTOMETRIC CHARACTERISTICS

Initial Lumens	170,000 Vert / 162,000 Horiz / 153,000 @ 45°
Mean Lumens - at 40% Rated Life	153,000 Vert / 137,000 Horiz / 138,000 @ 45°
Rated Life - 5 hrs / Start, 75% Survivors	3000 Hours
Correlated Color Temperature - CCT	4000 K
CIE Chromaticity Coordinates - ccx / ccy	0.400 / 0.385
Color Rendering Index - RA	65
Warm-Up Time to 90%	2 to 4 minutes
Hot Restart Time to 90%	10 to 15 minutes

## ELECTRICAL CHARACTERISTICS

Nominal Lamp Power	1500W
Nominal Lamp Voltage	286V
Nominal Lamp Starting current	9.0A
Nominal Lamp Operating Current	6.2A
Maximum Current Crest Factor	1.8
Minimum Open Circuit RMS Voltage at -30°C	530V
Minimum Open Circuit Peak Voltage at -30°C	750V
Lamp Holder (Pulse Rating)	Mogul Screw
End of Life Ballast Protection Required	No

## REGULATORY CHARACTERISTICS

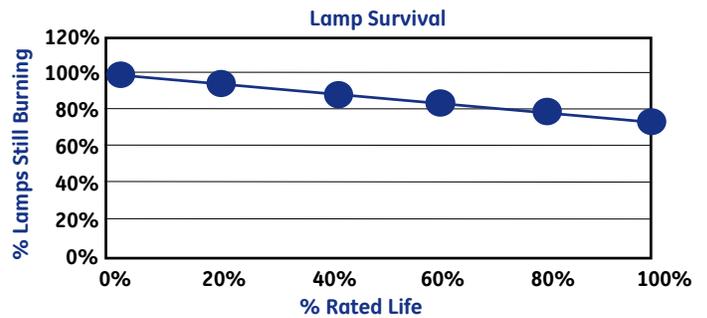
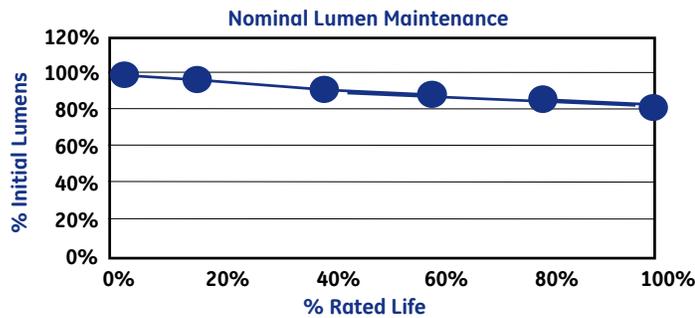
Mercury Weight per Lamp	160mg / Lamp
Lamp weight	385g
LEED - EB MR Credit	349 picograms / lumen hour
Actinic UV at 500 lux (IESNA RP-27.3-96)	0.009 micro W/cm² (Exempt)
Contains Kr85	No
RoHS Compliant	Yes
TCLP Compliant	No



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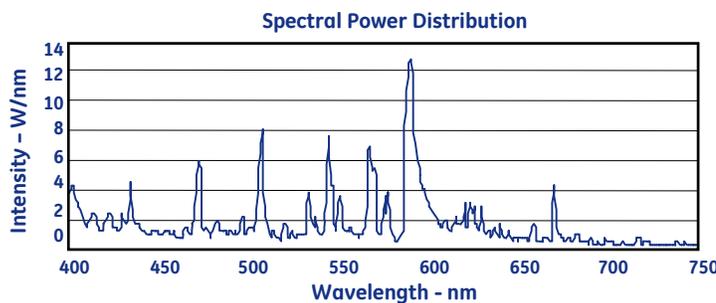
Technical Datasheet  
2009 NEW RATING



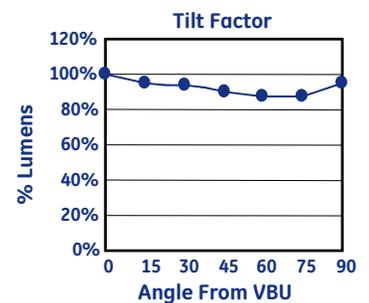
Burn Time		Lumen Maintenance		Lamp Survival
Hours	%Life	Lumens	% Lumens	% Burning
100	3%	170000	100%	100%
500	17%	161500	95%	96%
1200	40%	153000	90%	90%
1800	60%	147900	87%	85%
2400	80%	144500	85%	80%
3000	100%	142800	84%	75%

Average Life vs. Hours / Start*	
Hours / Start	Average Life
10	3000
5	3000
2.5	2200
1.2	1700

\* Life values in this table apply to both the lumen maintenance and Lamp survival curves.



Tilt Factor	
Angle	% Lumens
0	100%
15	95%
30	94%
45	90%
60	87%
75	88%
90	95%



Lamp lumens is measured under controlled laboratory conditions in a prescribed burning position at rated watts. Initial Lumens refer to the lamp lumen output after 100-hours burning. Mean Lumens refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 40% rated life for metal halide lamps. All published data represents nominal values. Lamp performance on typical systems under typical service conditions may vary from the lumen ratings published. Lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, and the lighting fixtures' electrical, thermal, and physical characteristics.

**WARNING: Risk of electric shock:** Turn power off before inspection, installation or removal. Do not use where directly exposed to water or outdoors without an enclosed fixture. **Risk of fire:** Keep combustible materials away from lamp. Use in fixture rated for this product. **A damaged lamp emits UV radiation which may cause eye/skin injury:** Turn power off if glass bulb is broken. Remove and dispose of lamp. **Unexpected lamp rupture may cause injury, fire, or property damage:** Turn lamp off at least once for 15 minutes per week. **FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.** Do not use beyond rated life. Beyond rated life, light output diminishes while energy consumption and risk of lamp rupture increases. Do not use lamp if outer glass is scratched or broken. Do not use where directly exposed to water or outdoors without an enclosed fixture. Lamps with E-rated ANSI codes must be operated in enclosed fixtures -- See Instructions. Do not store flammable materials near/below S-rated lamp in open fixture. Use only properly rated ballast. Do not exceed rated voltage. Do not turn on lamp until fully installed. Operate lamp only in specified position. If used on a dimming system, see instructions.

**CAUTION:** Risk of burn: Allow lamp to cool before handling. Do not turn on lamp until fully installed

**Lamp may shatter and cause injury if broken:** Wear safety glasses and gloves when handling lamp. Do not use lamp if outer glass is scratched or broken. Dispose of lamp in a closed container. Do not use excessive force when installing lamp.

**LAMP OPERATING CHARACTERISTICS:** This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.  
**RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE:** Beyond rated life, light output diminishes while energy consumption and risk of lamp rupture increases.  
**SPECIFIED OPERATING POSITIONS:** VBU - Base up  $\pm 15^\circ$ , VBD - Base down  $\pm 15^\circ$ , HOR - Horizontal  $\pm 15^\circ$ , U - Universal, All lamps are rated for enclosed fixtures, except lamps with S-rated ANSI codes operated in vertical position only (Base Up or Base Down),  $\pm 15$  degrees, can be used in an open fixture.  
**MATCH ANSI CODE OF LAMP TO CODE OF BALLAST OR LUMINAIRE:** Use in luminaire which comply with UL1598 or IEC 60598. When used, fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100oC). For total load, add auxiliary watts to lamp watts.  
**DIMMING SYSTEMS:** Contact your GE Lighting sales representative

**R WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave 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. This lamp certified to comply with FDA radiation performance standards, 21 CFR Subchapter J. USA: 21 CFR 1040.30 Canada: SOR/80-381

The product listed above conforms to ANSI standards for designation listed, including temperature ratings, electrical performance, and physical information unless otherwise noted. Consult GE Lighting for specific details. For definition of terms used in this specifications and additional information refer to the GE Lamp Product Catalog and GE's website, www.gelighting.com. Information provided is subject to change without notice. Please verify all details with your GE Sales representative. All values are design or typical values when measured under laboratory conditions and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-user conditions.

For additional product and application information, please consult GE's Website: [www.gelighting.com](http://www.gelighting.com)