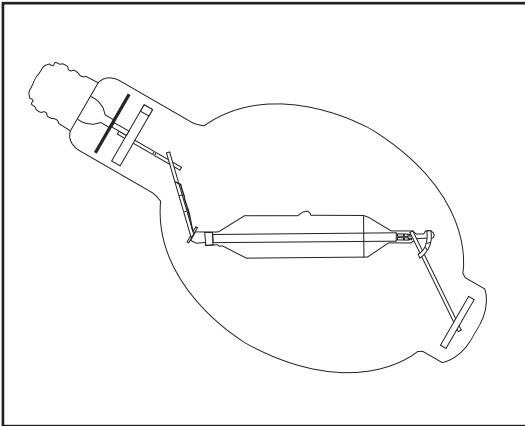


Smart Lamp™ Operating System

1500 Watt Metal Halide Lamp (Clear) Technical Data Sheet

Proprietary to Musco Lighting



Ordering Information

Ordering CodeLA-30Z-1
ANSI DesignationM48
DescriptionMH1500 MZ
Lamp TypeHID: Metal Halide

Physical Characteristics

Bulb SizeBT-56
Bulb FinishClear
BaseMogul Screw Position Oriented
Maximum Overall Length (MOL)15 $\frac{3}{8}$ " (391mm)
Light Center Length (LCL)9 $\frac{1}{8}$ " (232mm)
Arc Tube Lighted Length3 $\frac{5}{16}$ " (84mm)
Arc Tube MaterialFused Silica
Maximum Permissible Bulb Temperature400°C (752°F)
Maximum Permissible Base Temperature210°C (410°F)

Photometric Operating Characteristics¹

System Rated Constant Lumens Over Life ²134,000
Operating PositionArc Tube Horizontal
Lamp Replacement Interval, Hours ³5000
Correlated Colour Temperature (Approximate)4200K
CIE Chromaticity Coordinates (Approximate)x-.370, y-.390
Colour Rendering Index (R_a)65-70

Electrical Data

Average Lamp Wattage Over Operating Life ²1450
Warm-up Time to 80% of Output3-5 Minutes
Re-strike Time for Hot Lamp10-15 Minutes
Lamp Operating Current (Max. rms Amps) ⁴6.0
Ballast TypeANSI M48
Minimum Starting Temperature-30°C

Footnotes:

- (1) Operating Characteristics are per the Musco Smart Lamp(TM) Operating System on a commercial ballast with arc tube horizontal. Lamp lumen measurements in accordance with IESNA LM-51-00. Lamp color data in accordance with IESNA LM-58-94. Lamp operating cycle of five hours per start to reflect expected field use in the sports lighting industry.
- (2) Lamp starts out at a reduced wattage and increases over life to offset lumen loss as lamp ages. Average wattage over life is 1450 watts.
- (3) Beyond 5,000 hours is the time when constant lumens are no longer maintained by the Smart Lamp™ Operating System. Average lamp life before failure is substantially greater than 5,000 hours as tested and defined per IESNA LM-47-01 with five hours per start.
- (4) Does not include ballast losses.

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