

Operating Cautions For All Products Using HID Lamps

IMPORTANT: All lamp manufacturers publish specific notices and cautions for HID lamps. Some of this information may be found on the sleeve in which the lamp is packaged. Additional warnings and cautions should be obtained directly from the manufacturer. **APPLICABLE CAUTIONS FOR INDIVIDUAL HID LAMPS SHOULD BE REQUESTED FROM THE LAMP AND BALLAST MANUFACTURER. THESE CAUTIONS CAN TYPICALLY BE FOUND IN THE CURRENT CATALOG OF THE MANUFACTURER.** This sheet does NOT cover all possible warnings and cautions. Canlyte is not responsible for damage to the lamp, luminaire, or any other person or property due to failure to observe all applicable cautions recommended by

the lamp manufacturer.

WARNING:

Most HID lamps are constructed of a glass outer envelope with an internal arc tube. The arc tubes can operate under extreme pressure and temperatures as high as 1100°C. The arc tube may unexpectedly rupture do to internal causes or external factors. If an arc tube ruptures, there is a risk of personal injury, property damage, burns and fire.

CAUTION:

Make sure all power is turned off while installing or servicing lamps. Do not turn power on until fixture is completely installed. Turn power off at the circuit breaker.

WARRANTY:

HID Lamps are warranted by their manufacturer – please contact the manufacturer (or a local distributor of the product) for replacement of defective lamps. If Canlyte provided the lamps with the luminaire, please contact our factory or representative (lamp manufacturers warranty applies).

GENERAL:

Upon receipt, inspect for any freight damage, which should be brought to the attention of the delivering carrier. See instructions on carton, (“Damage and Shortage Claims”), for proper steps in filing claims with the carrier. Compare the catalog description listed on the packing slip with the label on the carton to assure you have received the correct material.

LAMP LIFE “Average rated life” means that at the end of the rated hours, 50% of the lamps may have previously failed.

The standard used by HID lamp manufacturers for rating lamp life is based on 10 hours of operation per start, and a survival rate of 50% of the tested lamps. A group re-lamping program is recommended by all lamp manufacturers for the best overall performance of the system. Shown are tables of the typical life expectancy (in years), as well as a suggested re-lamping interval for certain operating schedules.

IF OPERATED 7 DAYS PER WEEK, 52 WEEKS PER YEAR:

| HOURS USED per DAY | TOTAL HOURS per YEAR | 10,000 HOUR RATED LIFE LAMP | | 20,000 HOUR RATED LIFE LAMP | |
|--------------------|----------------------|--|--|--|--|
| | | USING AVERAGE RATED LIFE, EXPECT 50% LAMP FAILURE: | SUGGESTED RELAMP INTERVAL AT 75% RATED LIFE: | USING AVERAGE RATED LIFE, EXPECT 50% LAMP FAILURE: | SUGGESTED RELAMP INTERVAL AT 75% RATED LIFE: |
| 24 | 8760 | 1 year, 1 1/2 months | 9 1/2 months | 2 years, 3 months | 1 year, 8 months |
| 18 | 6570 | 1 year, 5 1/2 months | 1 year, 1 1/2 months | 3 years, 1/2 month | 2 years, 3 months |
| 12 | 4380 | 2 years, 3 months | 1 year, 8 months | 4 years, 5 1/2 months | 3 years, 4 3/4 months |
| 5 | 1825 | 4 years, 1/2 month | 4 years, 1/2 month | 8 years, 2 1/2 months | 8 years, 2 1/2 months |

IF OPERATED 5 DAYS PER WEEK, 50 WEEKS PER YEAR

| HOURS USED per DAY | TOTAL HOURS per YEAR | 10,000 HOUR RATED LIFE LAMP | | 20,000 HOUR RATED LIFE LAMP | |
|--------------------|----------------------|--|--|--|--|
| | | USING AVERAGE RATED LIFE, EXPECT 50% LAMP FAILURE: | SUGGESTED RELAMP INTERVAL AT 75% RATED LIFE: | USING AVERAGE RATED LIFE, EXPECT 50% LAMP FAILURE: | SUGGESTED RELAMP INTERVAL AT 75% RATED LIFE: |
| 24 | 6000 | 1 year, 7 1/2 months | 1 year, 2 1/2 months | 3 years, 3 1/2 months | 2 years, 6 months |
| 18 | 4500 | 2 years, 2 1/2 months | 1 year, 7 1/2 months | 4 years, 4 3/4 months | 3 years, 3 1/2 months |
| 12 | 3000 | 3 years, 3 1/2 months | 2 years, 6 months | 6 years, 7 1/2 months | 5 years |
| 5 | 1250 | 6 years | 6 years | 12 years | 12 years |



THESE CAUTIONS ARE RECOMMENDED BY ALL MAJOR LAMP MANUFACTURERS

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LAMP LIFE (cont'd)

Lamp life is measured using 10 hours of operation per start. If the operating hours per start are reduced, lamp life may also be reduced, as shown in the table at right. Additionally, most manufacturers derate lamp life 25% when burned in horizontal operating positions. It is important to note that individual lamps, or groups of lamps, can vary from the rated average life.

| IF OPERATED FOR: | % OF RATED LIFE: |
|---------------------|------------------|
| 5 Hrs. per start | 75% |
| 2.5 Hrs. per start | 55% |
| 1.25 Hrs. per start | 40% |

REPLACING FAILED LAMPS Any HID lamp should be replaced as soon as possible after failure. Failure to promptly replace cycling lamps will void warranty, and may damage the fixture or components. For High Pressure Sodium and Pulse Start Metal Halide lamps, lamps MUST be replaced promptly. These lamps will begin to cycle (turn on and off repeatedly) near end of life. Failure to replace these lamps can lead to premature ballast and component failure, and potential non-passive failure of the lamp.

LAMP OPERATING POSITION Ensure the lamp to be used will be operated in the correct position.

Some lamps are position restricted.

CONTINUOUS BURNING OF LAMPS Metal Halide and Pulse Start Metal Halide lamps MUST be turned off at least once per week for a period of 15 minutes minimum, when used in a continuous burning application (24 hrs./7 days). Failure to do so will increase the chance of non-passive failure of the lamp.

PROPER ENCLOSURE OF METAL HALIDE LAMPS Ensure that the appropriate type lamp is installed in the luminaire.

Lamps may be rated as follows: "O" – Suitable for use in an open luminaire (can also be used in enclosed luminaire), "E" – Suitable for use ONLY in an enclosed luminaire, "S" – Suitable for use in an open luminaire subject to restrictions provided by the lamp manufacturer. Observe any marked cautions or restrictions as indicated on the luminaire. Some lamps require special sockets or use special constructions to prevent unintended or inappropriate use.

FOR GUIDELINES REGARDING THE CONTINUOUS USE AND ENCLOSURE OF METAL HALIDE LAMPS, REFER TO NEMA LSD 25-2002, "Best Practices for Metal Halide Lighting Systems". NEMA LSD 31-2004, "Changes to the 2005 NEC Will Impact Future Metal Halide Systems Options".

Web Link; (www.nema.org, "search", "Product", "Lighting System", "Luminaires", "Standards and Other Publications Search").

Maintenance of your Lighting System

- 1 Group re-lamp per the above guidelines.
- 2 Clean optical system (frequency will depend on your environment, however it is recommended to do on a yearly basis).
- 3 Check all mechanical and electrical connections and tighten as required (do this at minimum with each re-lamping).

CONTROL SYSTEMS When using a Canlyte HID control system Pulse Start Metal Halide and Metal Halide lamp systems are limited to VERTICAL lamp operation, +/- 15 with the following exceptions:

Osram-Sylvania Pulse Start Metal Halide may be used in any operating position listed for the particular lamp. Standard Metal Halide lamps must be used in BASE-UP positions only. Using Venture Metal Halide (NOT Pulse Start) lamps in other than vertical position - lamp life may vary from normal rated life to 50% of rated life. Premature end of life is not covered by any warranty. General Electric MVR1000/U may be used in the horizontal position, +/-15°.

Please refer to the product instructions specific to these systems.



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