

Intensity Drop In Dymax UV Spot-Curing Systems

If a new bulb displays a sudden drop in intensity in a Dymax UV Spot Curing System, please check the following:

- Take a reading of the new bulb using a lightguide simulator (PN 38408). Remove the simulator and install the lightguide used during production. The difference between the two readings should supply a good assessment into the performance of the lightguide. Unacceptable intensity loss should result in cleaning or the replacement of the lightguide.
- Confirm there is enough clearance for the intake and exhausts fans behind the equipment. Clearance should be about 12" of empty space. Less than 12" could potentially allow the intake fan to feed from the exhaust fan and/or supply inadequate cooling to the bulb, which generally raises the operating temperature of the bulb and shortens its life expectancy.
- Clean the ends of the lightguide, paying close attention to the output side. Look for adhesive build up and the collecting of out-gassing. Large deposits of adhesive should be removed using the flat edge of a razor blade to scrape the deposit away. Take care as to not scratch the glass. Always clean the ends with Isopropyl Alcohol.
- The condition of the lightguide can restrict intensity transmission. Look for chips and cracks in the lightguide ends. Confirm there aren't any kinks or severe bends in the length of the lightguide. A leaking lightguide will drastically reduce intensity transfer and lead the lightguide to overheating. Lightguides should never be bent more than their natural bend radius.
- Debris can accumulate on the filter lens if the lightguide is removed for any length of time. The filter lens can be found inside the spot equipment, with the power off and the electrical plug removed. Once this is done, remove the lightguide from the front of the equipment. From this point an observer can look into the lightguide mount (the hole where the lightguide is inserted) and view the filter lens. It will appear purple, green, and blue in color. By using a can of air, the filter lens can be gently cleared of any dust or debris that can be seen.
- Excessive power cycling will shorten the life expectancy of the bulb. This is an arc ignition, not a filament bulb. Once ignited, it must be left on for a minimum of 10 minutes to fully vaporize elements in the bulb. If not, the bulb may be difficult to re-ignite. Each re-ignition increases the rate of bulb degradation on an average of about 1 hour per start.



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