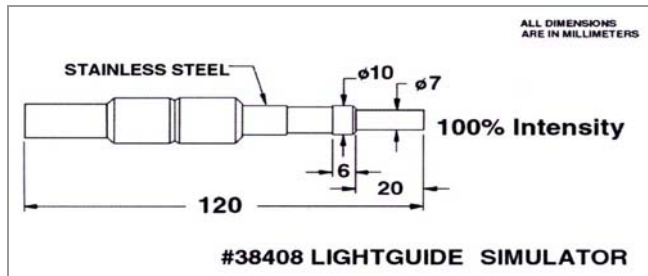


Lightguide Simulator

An Important Tool for Monitoring Lightguide Performance

In a UV spot curing system, both the UV bulb and the lightguide degrade with use. UV bulbs begin to emit less light and lightguides transmit less light, requiring periodic replacement of both. The degradation of bulbs and lightguides varies with usage and must be measured. Measuring the output from a lightguide shows both the bulb degradation and the lightguide transmission loss, without regard to their relative contributions. A lightguide simulator allows the measurement of the bulb intensity independent of the lightguide. The difference between these two measurements is the transmission rate of the lightguide. A lightguide simulator is a cost-effective tool that helps accurately time bulb and lightguide replacement.



Light output end goes into a radiometer like the ACCU-CAL 20 or ACCU-CAL™ 30

FUNCTIONS

- Allows a direct lamp output reading
- Provides fast and accurate intensity readings
- Helps in determining bulb and lightguide replacement timing
- Helps increase productivity of UV curing spot lamps

USING A LIGHTGUIDE SIMULATOR

- T = Measured Combined Intensity:** Measured from end of lightguide. Replace bulb and/or lightguide when intensity drops below that validated for the process.
- B = Measured Bulb Intensity:** Measured through lightguide simulator.
- T/B = Calculated Lightguide Transmission (%):** Calculated transmission rate for a new, single-pole, 5 mm lightguide is 90% or more. Lower transmission rates require more frequent bulb replacement to maintain output intensity.

SPECIFICATIONS

- Compatibility:** Compatible with the following UV/VIS spot lamp models: DYMAX BlueWave® 200, BlueWave® 75, BlueWave® LED Prime UVA
- Construction:** 5-mm diameter fused silica rod, optically insulated and sealed on both ends
- Light Transmission:** Minimum 91% in the UVA and VIS wavelength range
- Part Number:** **38408**

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