

TECHNICAL COMPARISON: OL 770 VS LABSPHERE LED-202

The Labsphere LED-202 is an older, discontinued sphere system for measuring LED total flux. Like the OL 770-LED, it's a spectral system and gives total luminous flux, total radiant flux and chromaticity. With only limited information on the LED-202, we can compare the following:

Sphere Size

Labsphere uses a 2-inch sphere. The smaller the sphere, the greater the errors in measurement. Therefore, the smaller LED-202 sphere cannot compare in accuracy to the 6-inch sphere used with the OL 770-LED.

Calibration

Calibrations of the LED-202 do not include self-absorption by LEDs and holders. In a 2-inch sphere, these absorptions are huge, and results can be severely erroneous. The OL 770-LED has a simple calibration that also includes self-absorption, thus providing accurate results.

Easier to use

Built-in calibration and intelligent software makes the OL 770-LED easy to use for untrained personnel. Measurements and reports can be made with a simple mouse click.

Sensitivity

The minimum radiant flux measurable with the LED-202 is specified as 10 μ W, where as the minimum radiant flux measurable with the OL 770-LED is < 0.07 μ W (*at 10:1 signal to noise*).



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As part of our policy of continuous product improvement, we reserve the right to change specifications at any time.