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LED flux measurements: some practical considerations

ABSTRACT

Disagreement of LED flux measurement results between different laboratories can be minimized if a few requirements in the measurement conditions are met: 1/ Determination of the quantity needed to measure, 2/ Right choice of the integrating sphere 3/ Choice of the correct calibration standard 4/ Proper positioning of the test LED 5/ Data evaluation method 6/ Estimation of the uncertainty

Example is shown as the case of white LED where flux measurements can be misleading.

Biography

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At present: President of INPHORA (Institute for Photometry and Radiometry). The company is involved with measurement of visible light and design and construction of instruments for photometric and radiometric measurements. Close contact with primary testing laboratories and secondary testing labs for standard calibrations. Chairperson of CIE TC2-45, technical Committee for LEDmeasurement recommendations.

Previous experience: Siemens OED, (head of Optical Metrology Lab}, HP Labs (Research scientist. Design and development of intra cardiac pressure transducers from piezoresistive Silicon diaphragms. Investigation of light effects in Silicon Schottky barriers.)