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lamps. Solid state lighting (SSL) will have great impact for the potential of huge energy savings. In the United States, lighting consumes 22% of electricity and 8% of total energy. The U.S. Department of Energy expects that solid state lighting will reduce the energy consumption by lighting to a half of the current level by 2025 1. This will ...

Optical metrology for LEDs and solid state lighting
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Handbook of LED Metrology—Giant-Testing
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Handbook of LED and SSL Metrology von Günther Leschhorn—
shown in Figure 2, are widely used in the LED industry. 2 [2] DIN 5031-9:1976-05 Photometry. 3 [3] G. Leschhorn, R. Young, Handbook of LED and SSL Metrology, Chapter 2.3, [4] J. Schanda, Colorimetry, Chapter 1; [5] CIE 15:2004, Colorimetry, Chapter 1; [6] CIE 170:2015, Fundamental Chromaticity Diagram with Physiological Axes, Part 2. 0 0.2 0.4 ...

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This comprehensive technical handbook by Dr. Günther Leschhorn (Head of Product Management, Instrument Systems) and Dr. Richard Young (former Chief Scientist and current external consultant for Instrument Systems) covers not only the basics of Light-Emitting Diode (LED) and Solid-State Lighting (SSL) metrology, it also provides useful reference work for experienced specialists.

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lighting. Based on this research, the Alliance for Solid State Illumination Systems and Technologies (ASSIST), a group led by the Lighting Research Center (LRC), recommends defining useful life as the point at which light output has declined to 70% of initial lumens (abbreviated as L. 70) for general lighting and 50% (L. 50