

BIBLIOGRAPHY

1. Light Field Analysis for Modeling and Transmission Characteristics of Partially Coherent Light-Emitting Diodes – <https://www.frontiersin.org/articles/10.3389/fphy.2023.1181343/full> - Confirms that LEDs emit partially coherent light in a Lambertian shape that remains coherent for long distances.
2. A Quest for New Metrics to Curb the Increase in Glare from LED Lighting - https://peterveto.me/wp-content/uploads/2023/01/A-quest-for-new-LED-glare-metrics_Veto-Chamberlin-Sabatier-Baker_2023.pdf - Discussion of the need for metrics for glare caused by use of LEDs.
3. 4-D Light Field Reconstruction by Irradiance Decomposition - <https://ipsjcva.springeropen.com/articles/10.1186/s41074-016-0014-z> - Shows spatial difference between isotropic and anisotropic emitters.
4. Derivation and Experimental Verification of the Near-field 2D and 3D Optical Intensities From a Finite-size Light Emitting Diode (LED) - <https://ieeexplore.ieee.org/document/8879542> - Shows that radiation from a flat surface is a Lambertian shape.
5. Is Street Lighting Damaging Our Health? - <https://online.flippingbook.com/view/702884488/> - Cree Lighting acknowledges that LEDs emit non-uniform luminance.
6. Light Emitting Diodes, Chapter 16, Human Eye Sensitivity and Photometric Quantities - <https://ocw.snu.ac.kr/sites/default/files/NOTE/791.pdf> - States that point source brightness is measured with luminous intensity in candela, and surface source brightness is measured with luminance in nits (candela per square meter).
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8. Angular Distribution of the Averaged Luminous Intensity of Low Power LEDs Transfer Standards - <http://www.softlights.org/wp-content/uploads/2022/03/Lambertian-2013.pdf> - LEDs emit non-uniform energy in a Lambertian shape, sometimes off-center.
9. Curved vs. Flat - https://www.softlights.org/wp-content/uploads/2022/11/Curved-Versus-Flat_American.pdf - Primer on the differences between curved and flat emitters.
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11. Can Behavioral Interventions be Too Salient? Evidence from Traffic Safety Messages - <https://www.science.org/doi/10.1126/science.abm3427> - Electronic messaging boards can increase crash rates.
12. Visually Sensitive Seizures: An Updated Review by the Epilepsy Foundation. - <https://onlinelibrary.wiley.com/doi/10.1111/epi.17175> - Flashes brighter than 20 nits create a risk of seizure.
13. Effects of Emergency Vehicle Lighting Characteristics on Driver Perception and Behavior - <https://www.respondersafety.com/Download.aspx?DownloadId=f31a5f73-7b95-44c7-bd25-1e4cdfce5229> – This study concludes that high intensity flashing lights put lives at risk.
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15. IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. - https://www.bio-licht.org/02_resources/info_ieee_2015_standards-1789.pdf - Flasher brighter than 20 nits and greater than 1 Hz is creates a high risk of seizure.