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Comparison analysis of illumination systems for digital light microscope according to uniformity of irradiance distribution (Proceedings Paper)

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[Proceedings Vol. 5942](#)

Nonimaging Optics and Efficient Illumination Systems II, [Roland Winston](#); [R. John Koshel](#), Editors, 59420Z

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Paper Abstract

This paper represents comparison analysis of schemes for illumination channel in a light microscope - Kohler illumination, projection and critical illuminations. It is proved that these schemes are particular cases of the proposed common scheme for microscope illumination. It is calculated uniformity of irradiance distribution on sample surface produced by different particular cases of this common scheme with a halogen lamp or a uniform extended light source. It is showed that the high uniformity can be reached not only in Kohler illumination.

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