Optimizing LSF Shape for Robust and Uniform Backlighting of Automotive Displays with Direct-Lit Local-Dimming

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Keywords: LSF model, robust BLU, LCD uniformity, local-dimming, automotive displays

In this paper, radial LSFs for direct-lit BLUs are modelled with three parameters and can render different shapes for a same influence. Diverse LSF shapes are analyzed in terms of robustness in production as well as power saving capabilities regarding local-dimming. Characteristic measures for an optimum shape are proposed.