OPTICAL CHARACTERIZATION AND OPTIMIZATION OF OLEDS

Optics of Organic LEDs

The quantitative optical description and general technical optimization of the upcoming, commercial light source Organic LED require a profound knowledge of the active & passive optical properties of the system „OLED“.

Emitter Properties

OLEDs comprising an adapted thin film stack (e.g. emitter – cathode – distance) enable to determine

- internal electroluminescence spectrum,
- emitter orientation distribution,
- profile of the emission zone, and
- quantum efficiency of excited state luminescence

by far-field radiation pattern measurement in conventional, electrically pumped operation and subsequent optical analysis.

References

M. Flämmich, N. Danz et al. in:
M.C. Gather, N. Danz et al. in:

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