



EPIC Online Technology Meeting on Photonics for Automotive Lighting

Spatially resolved light and color measurement technology

Introduction of TechnoTeam

- Manufacturer of imaging light and color measurement systems



- 65 employees
- 3000 m² of lab and office space
- Annual sales: € 12M

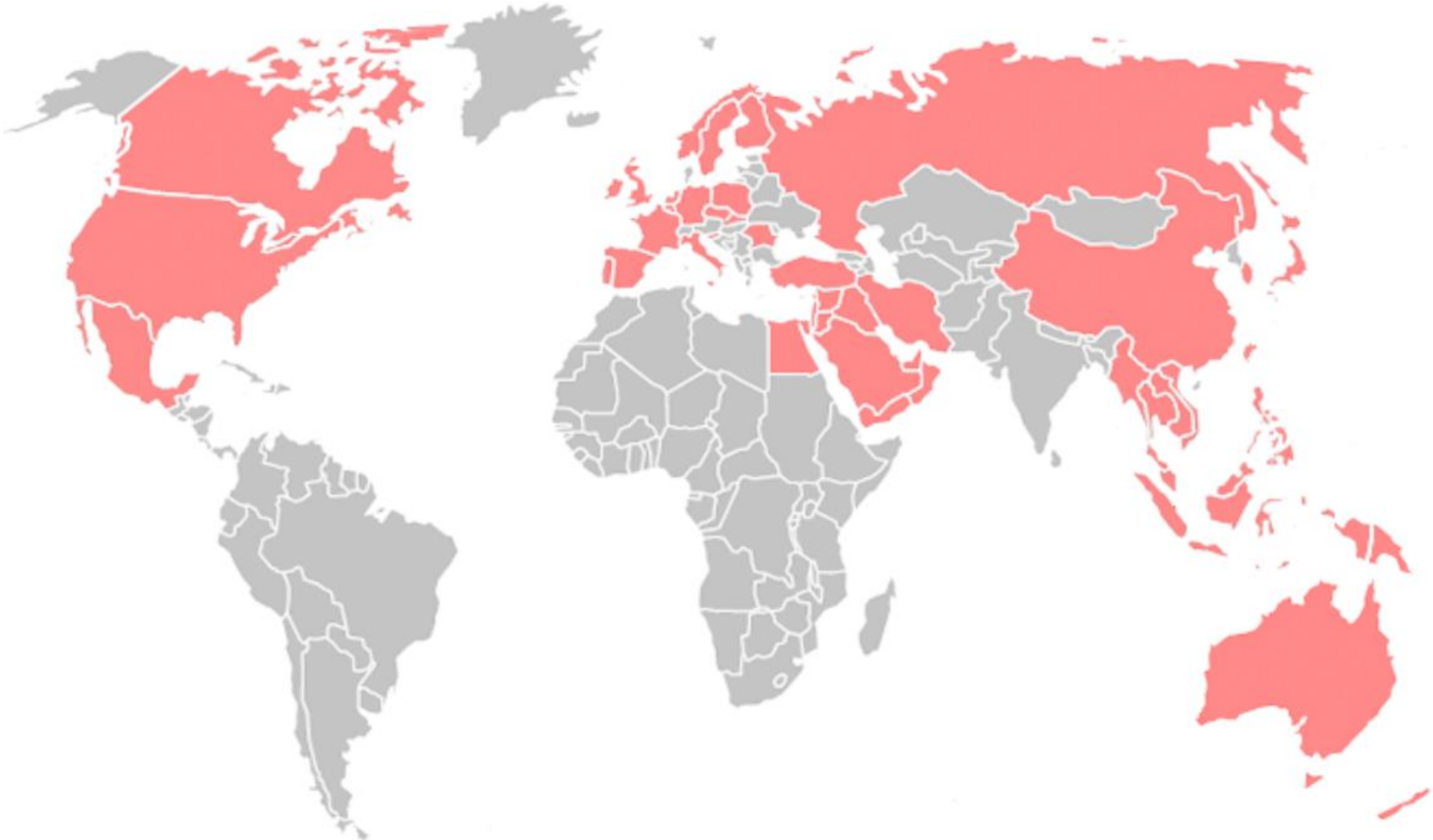


Introduction of TechnoTeam



OSF

H



VID

leo

LIPS



Interior – Quality assurance through measurement

1. Display
2. Symbols
3. Light Guides

Automotive interior lighting – display

Displays:

Instrument cluster, navigation / multimedia, HUD

Measured values:

luminance, homogeneity, color, visual perception (detection / reading, disturbance)
BlackMURA, Sticking Image, Pixel Cross Talk, ...



Automotive interior lighting – function

Backlit controls:

buttons, switches, knobs, (conventional) instrument cluster, tell-tale

Measured values:

luminance, color, homogeneity, symbol quality

Automotive interior lighting – ambience

Lighting elements:

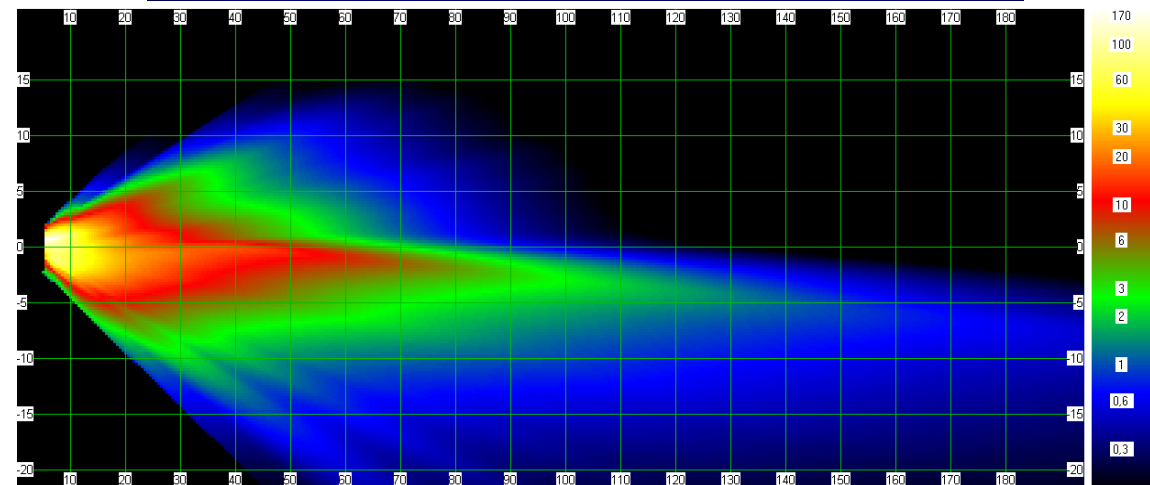
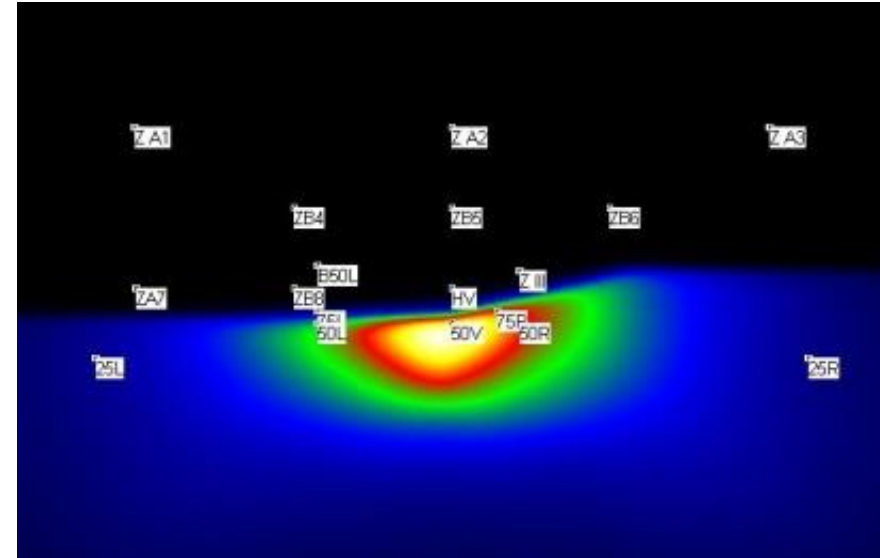
light pipes, light guides, light spots, display

Measured values:

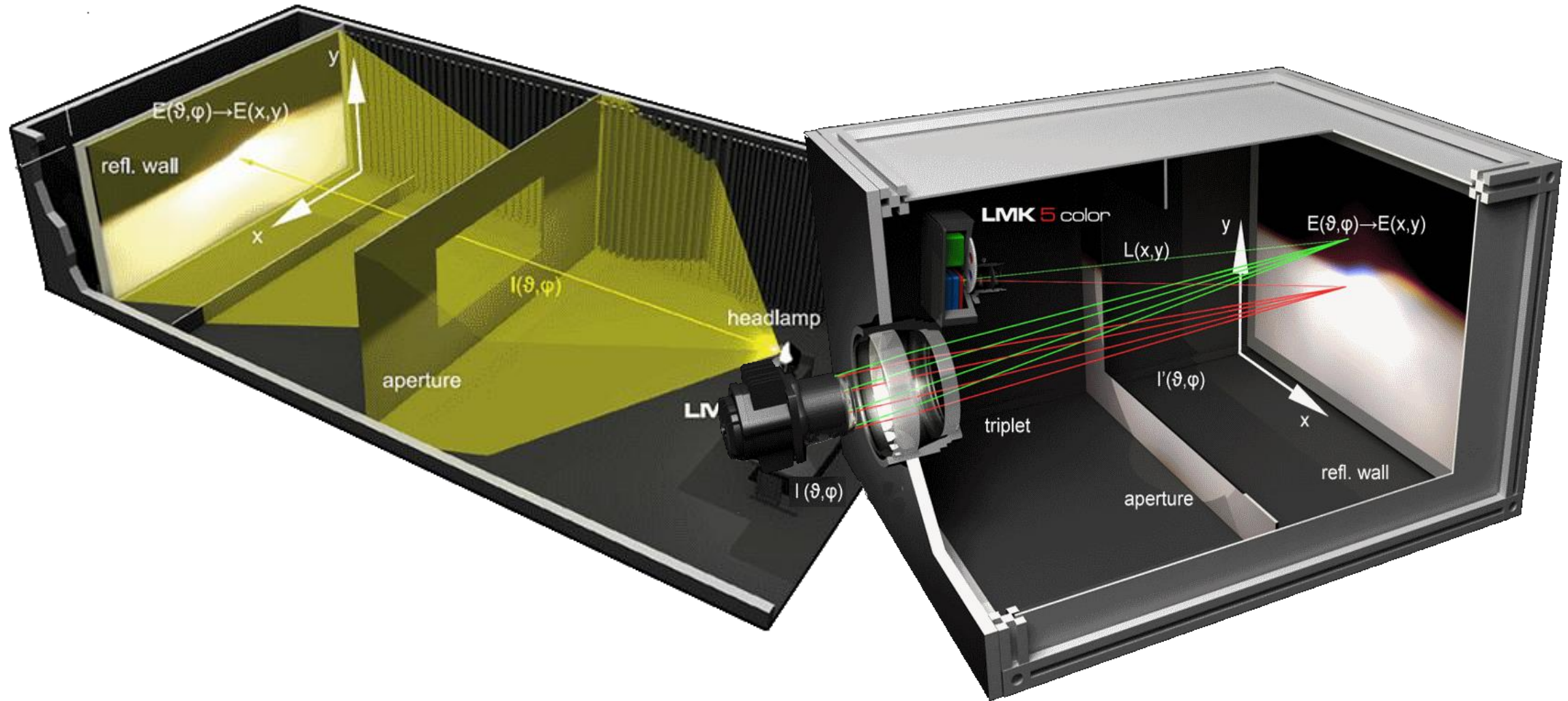
luminance, luminous intensity distribution (LID), illuminance, homogeneity, color, visual perception (detection / reading, disturbance)

Assessment of illuminated surfaces

Exterior – Quality assurance through measurements

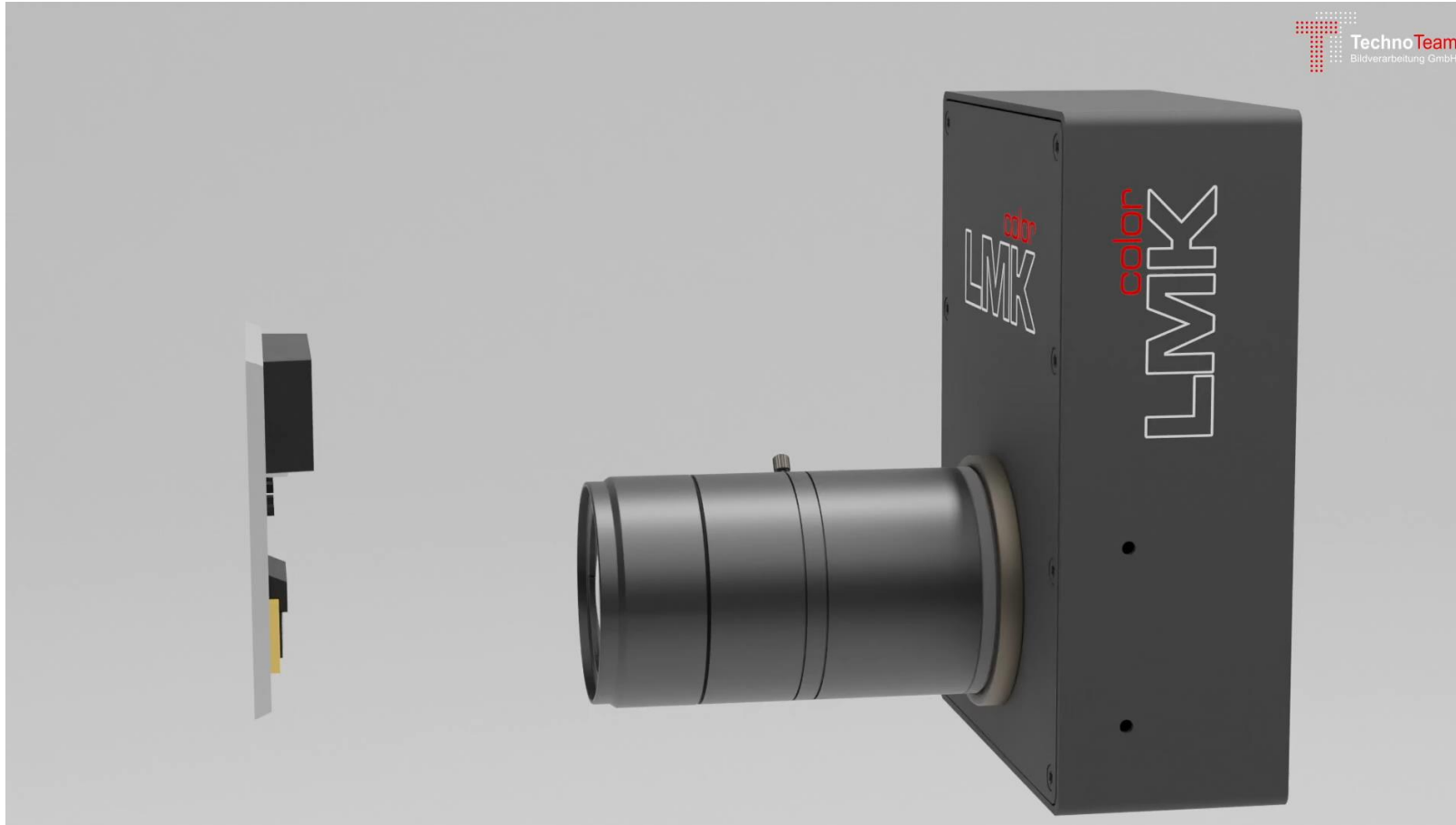


Exterior – Quality assurance through measurements



Spatially resolved light measurement

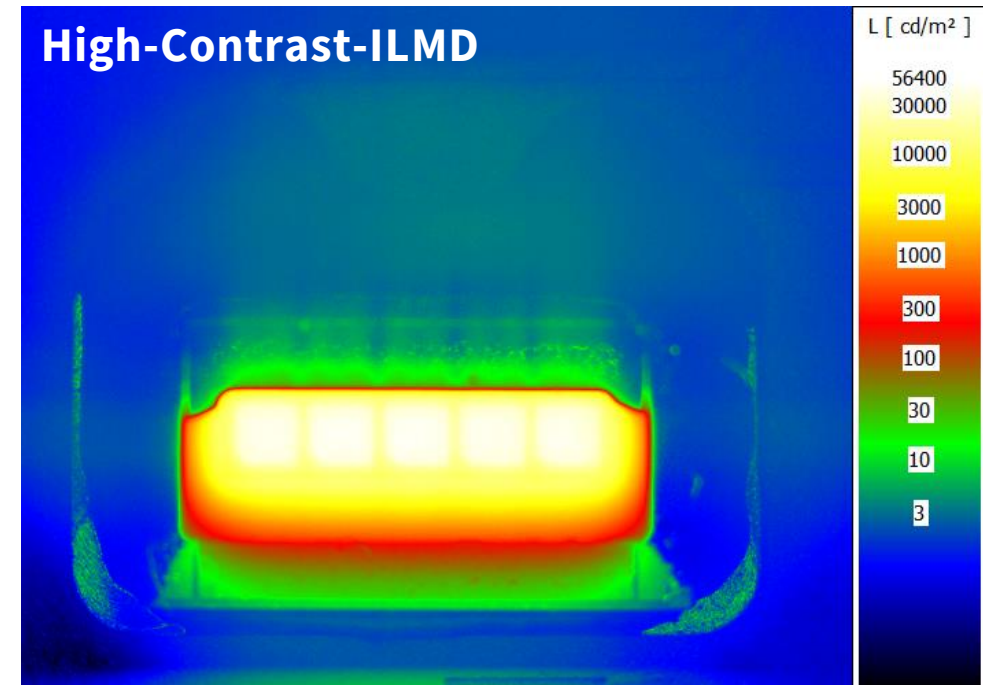
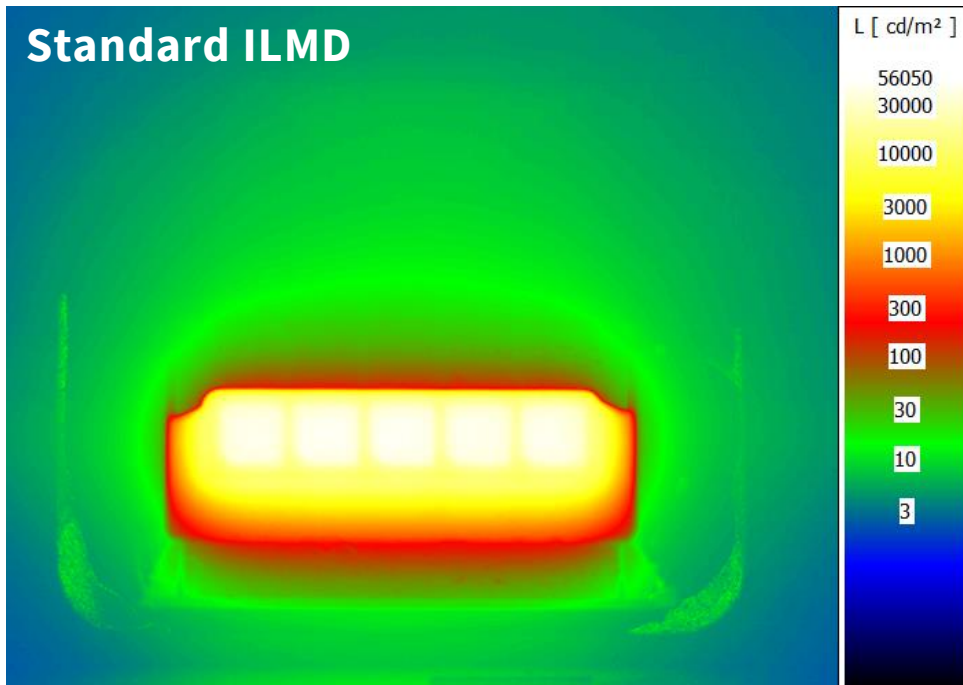
What's with the contrast?



High Contrast measurement

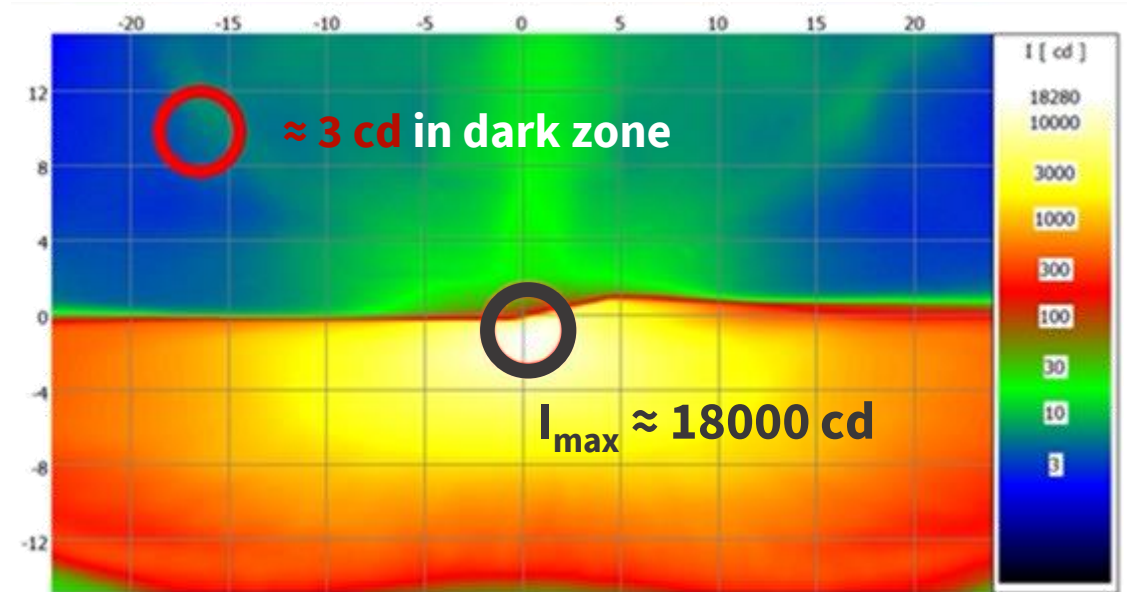
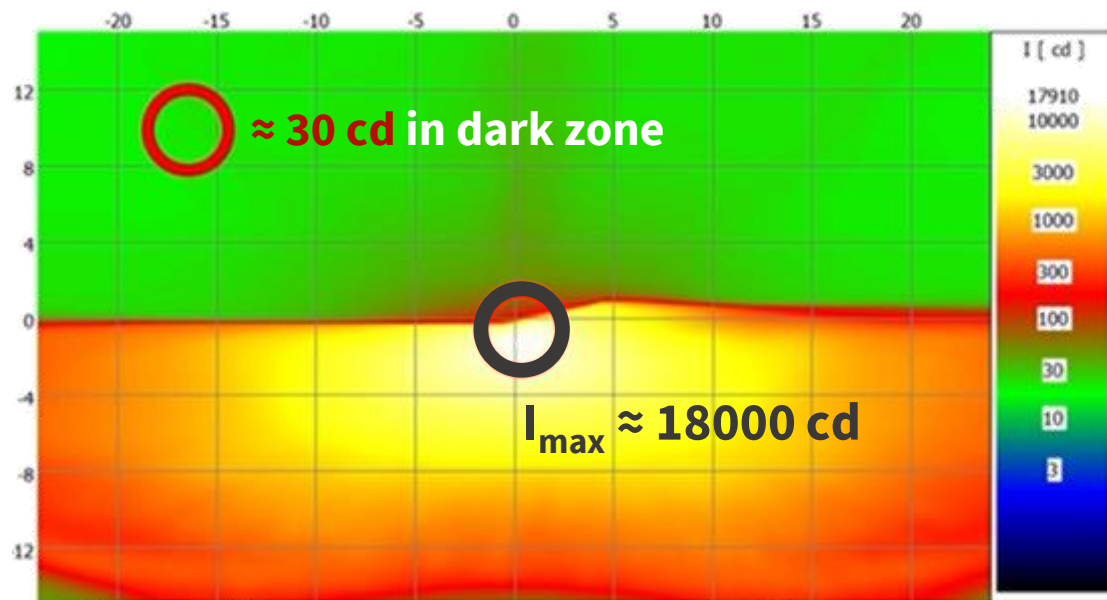
True contrast values measured in light sources used for road illumination applications are crucial for optic development

Analysis of LEDs with build-in cut-off



High Contrast measurement

True contrast values measured in light sources used for road illumination applications are crucial for optic development





Thank you for your attention!

Contact us on:

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