REFERENCE SOURCES

peo PHOTONICS

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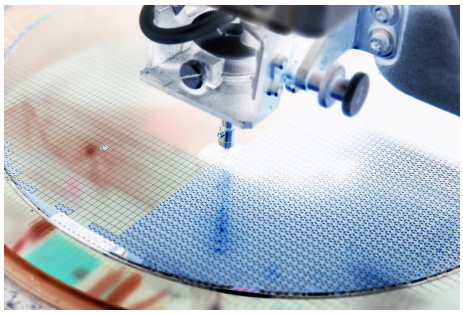
Product offering

GL OPTI LIGHT LED

GL OPTI LIGHT LED

The GL OPTI LIGHT LED can be used as a reference luminance standard in the display and monitor calibration systems as well as a calibration reference for cameras and other optical instruments.



The uniform, programmable multichannel LED light source available in one box featuring closed-loop calibration (CLC).

The GL OPTI LIGHT LED 127 can be used as a calibration reference for cameras and other optical instruments, especially in industrial electronic testers, in addition to being a reference light source in laboratory applications and features closed-loop calibration using a high-accuracy photodiode. The product is also a color standard which can be programmed to any color output in a specific gamut.

This compact uniform light source uses JUST LED Technology, providing a highly stable and flexible luminance reference standard. This GL OPTI LIGHT 127 can be used as a reference luminance standard in the display and monitor calibration systems as well as a calibration reference for cameras and other optical instruments. It is made using carefully selected LEDs with a small integrating sphere that provides ideal homogeneity of the source. Additionally, it features electronic control system and thermal stabilization in order to achieve extraordinary colorimetric stabilization.

JUST Normlicht's LED technology has achieved the ability, for the first time, to control the properties of LEDs. To control the LED properties to our requirements we have developed a complex multilevel calibration procedure that calibrates each single LED light source and stores the spectral properties in the unit's electronic controls. This process is unique and delivers quality at a price point that was otherwise not available.

GL OPTI LED 127 can be controlled from a PC via USB cable or adjusted using the integrated LED control panel. The PC software allows you to set the light coordinates according to your needs. It also features several light source standards such as D50, D65, D75, A, TL84. The active multilevel calibration system is divided into the basic factory calibration and permanent online-calibration during operation without using an external metrological device.

GL OPTI LIGHT LED is effectively self-controlling its operating conditions and is adjusting the light result with a very high frequency (>100 Hz) permanently and invisible to the human eye.

Key Features:

- Very high uniformity
- Near-perfect replication of light sources like D50, D65, D75, A, TL 84
- Free selection of light spectra out of color space bigger than sRGB*
- Stable conditions thanks to a unique calibration method
- Much longer lifetime of LEDs thanks to the active thermal stability
- Closed loop calibration using a high-accuracy photodiode

Applications include luminance and colorimetric standards, serving as a stable and uniform light source for

calibrating imaging systems, photometers, and spectroradiometers in laboratory and production environments.

For more information, simply complete the contact form, and a member of our team will be in touch shortly.