



kps'lid

Fast test system for luminous intensity distributions

The kps'lid compact testing system enables quick and yet high-quality testing of luminous intensity distributions while requiring a minimum of space.

Lengthy and extensive measurements in the light lab are now only required in rare cases. The test can be performed quickly and easily close to production. Even smaller companies without a complete light lab can reliably test their injection parameters with this system. This allows fast and direct correction of production parameters (e. g. injection molding settings) even with partial components.

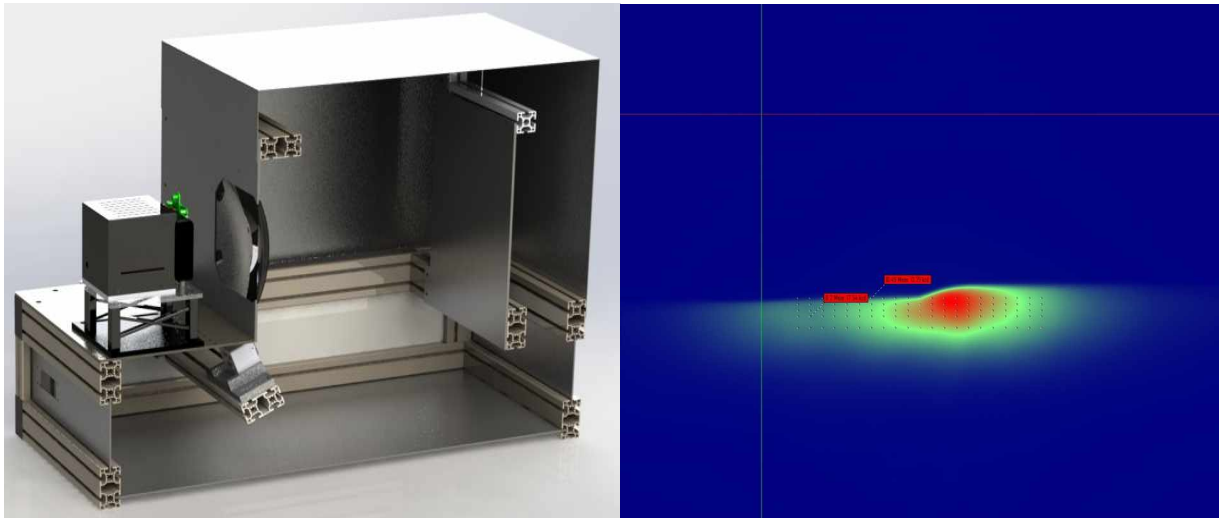
The test stand allows a professional and comprehensive evaluation of the luminous intensity distribution and the illuminance distribution of several types of luminaires.

The camera based measurement serves for a fast and easy evaluation of photometric and geometric parameters of illuminance distributions and luminous intensity distributions.

The far-field measurement distance required by standards can be reduced to a measurement distance of less than 1.50 m by using an optical system.

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Measuring quantities

Illuminance, irradiance distribution $E(x,y)$, $E(\vartheta,\phi)$	[lux]
Luminous intensity, radiant intensity distributions $I(\vartheta,\phi)$	[cd]
Test masks and standards	Test according to ECE-R 001, ECE-R 087, ECE-R 098, ECE-R 112, ECE-R 113, ECE-R 123 (amongst others), customised test masks

Specifications

Measuring range illuminance	0,01 Lux to 1 MLux
Measuring range luminous intensity	0,05 cd to 1 Mcd
Measurement dynamics	12 Bit
Measuring time	< 1 s typical
Spatial resolution	1300 x 1000 Pixel typical
Measuring error	< 1%

Features

Portable system packed in solid flightcase
Little space required for the compact test system, only 1.2 m x 0.8 m x 1.0 m (L x W x H)
Power supply 230V/50Hz
Darkroom not necessary, portable
Weight 60 kg only

Accessories

Software add-on luca'remote
Spectrometer/Spectroradiometer with convenient evaluation software spec'3
Software client (production control)