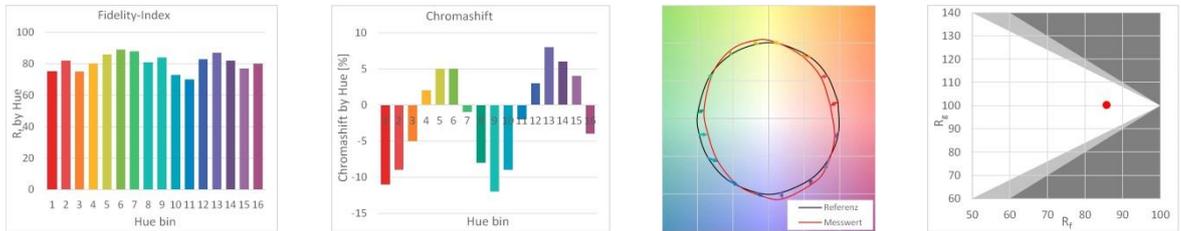


TM-30-15 COLOR RENDERING - is a new standard that makes use of 99 reference colors which are distributed over the entire color space. As a result, it makes use of significantly more colors and hues for the calculation of fidelity index R_f , which describes the same relationship as color rendering index R_a . Gamut index R_g provides information concerning color saturation and color shift, and is similar to gamut area index GAI used previously for the examination of color rendering. Detailed information on the evaluation of the color reproduction can be found in the following graphics implemented in the device.



Abbreviation: R_f , R_g

Re COLOR RENDERING INDEX - is the average of the color deviations of test colors 1 ... 14 according to DIN 6169 and test color 15 (Asia Skin Color). This value, in addition to the color rendering index R_a , also includes the saturated colors, the leaf green and the skin tones.

Abbreviation: R_e

GAI GAMUT AREA INDEX - Is a measure of the vividness of the color representation and is used primarily in the evaluation of exhibition and museum lighting. It is an indicator of how well the octahedral surface defined by the eight test colors of the R_a in the color space is covered by the light source. In connection with the R_a , the following statements on the color reproduction can be made.

	low R_a	high R_a
low GAI	false and pale colors	correct but pale colors
high GAI	false and intense colors	natural colors

Abbreviation: GAI

Ee IRRADIANCE - is the irradiation strength in the spectral range 380...780 nm.

Abbreviation: E_e , Unit of measure: W/m^2

LER LUMINOUS EFFICACY OF RADIATION - is the quotient of the illuminance E_v and the unweighted irradiance E_e . It is an indicator of how much of the generated radiation of a light sourced is perceived as light by the humans eye.

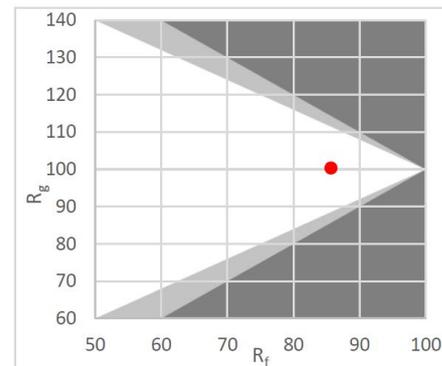
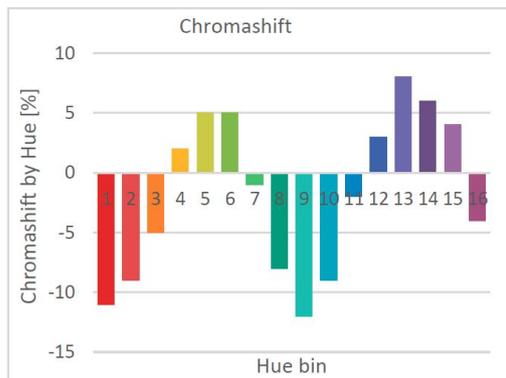
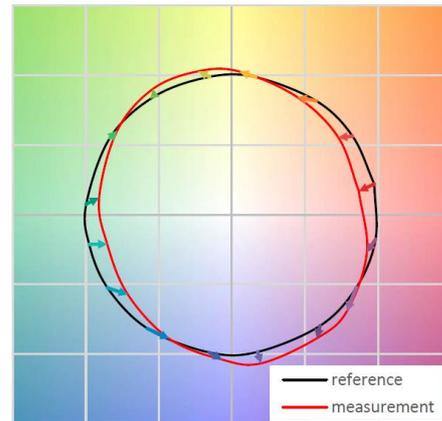
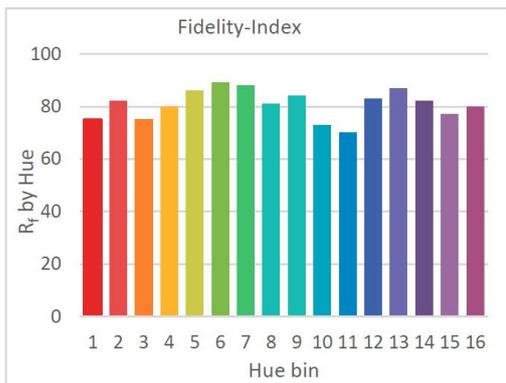
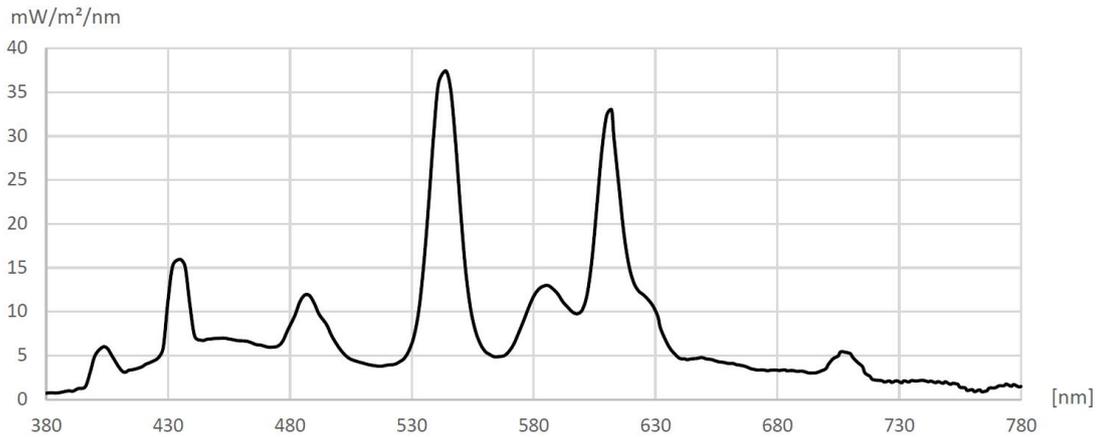
Abbreviation: LER, Unit of measure: lm/W

Measurement protocol



Location: Lamp 3
 Room 12
 4th Floor

Date of measurement: 25.01.2016
 Time of measurement: 10:17:54



Example Company
 Example Street 5
 12345 Example City

Exempl. City, Date

John Doe

+44 (0)123 / 123456