



International Commission on Illumination
Commission Internationale de l'Eclairage
Internationale Beleuchtungskommission

PRESS RELEASE

March 2015

CIE International Standard S 025/E:2015 Test Method for LED Lamps, LED Luminaires and LED Modules

This standard provides requirements to perform reproducible photometric and colorimetric measurements on LED lamps, LED modules, and LED luminaires (LED devices). It also provides advice for the reporting of the data. The availability of reliable and accurate photometric data for LED devices is a basic requirement for designing good lighting systems and evaluating performance of products. By obtaining these data through measurements in specific normalized measuring conditions, the consistency of the data should be ensured between different laboratories (within the limits of the declared measurement uncertainty) and comparison of different products on the same basis is possible.

The standard specifies the requirements for measurement of electrical, photometric, and colorimetric quantities of LED lamps, LED modules and LED luminaires, for operation with AC or DC supply voltages, possibly with associated LED control gear. LED light engines are assimilated to LED modules and handled accordingly. Photometric and colorimetric quantities covered in this standard include total luminous flux, luminous efficacy, partial luminous flux, luminous intensity distribution, centre-beam intensity, luminance and luminance distribution, chromaticity coordinates, correlated colour temperature (CCT), colour rendering index (CRI), and angular colour uniformity. This standard does not cover LED packages and products based on OLEDs (organic LEDs).

The standard aims in particular to cover measurement methods for testing the compliance of LED devices with the photometric and colorimetric requirements of LED performance standards issued by IEC/TC 34 "Lamps and related equipment".

As LED devices offer a large variety of configurations in respect to geometry and/or colour, the photometric and colorimetric performances are considered individually for each configuration.

This CIE International Standard has been approved by the CIE National Committees. It is readily available at the National Committees of the CIE or via the [CIE Webshop](#).

Price of this CIE International Standard: EUR 219,- (Members of the National Committees of the CIE get 66,7 % discount).