

PRESS RELEASE

December 2018

CIE International Standard S 026/E:2018

CIE System for Metrology of Optical Radiation for ipRGC-Influenced Responses to Light

Système CIE de métrologie des rayonnements optiques dédié à la réponse à la lumière des cellules ganglionnaires photosensibles de la rétine (ipRGC)

CIE-System für die Metrologie optischer Strahlung für ipRGC-beeinflusste Antworten auf Licht

This International Standard defines spectral sensitivity functions, quantities and metrics to describe the ability of optical radiation to stimulate each of the five photoreceptor types that can contribute, via the melanopsin-containing intrinsically-photosensitive retinal ganglion cells (ipRGCs), to retina-mediated non-visual effects of light in humans. The document is applicable to visible optical radiation in the wavelength range from 380 nm to 780 nm. In addition, the document includes information concerning the effects of age and field of view (FOV) when quantifying retinal photoreceptor stimulation for ipRGC-influenced responses to light (IIL responses).

The document does not give complete information for particular lighting applications, or for the quantitative prediction of IIL responses.

The document is not intended for colorimetric contexts, nor does it address health or safety issues such as those resulting from light treatment, flicker or photobiological safety and only relates to retinal photoreception.

Tables of the data of the action spectra of the five photoreceptor types defined in this document are made electronically available for purchasers of this publication via a respective download link.

This International Standard has been approved by the CIE National Committees. The document is readily available from the <u>CIE Webshop</u> or from the National Committees of the CIE.

The price of this publication is EUR 162,- (Members of the National Committees of the CIE receive a 66,7 % discount on this price).