



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



CIE S 026 Tutorial Content

CIE Tutorial on S 026 - use and application of the new metrology for ipRGC-influenced responses to light

“Methods and principles to define light for responses beyond vision”

March 14 - 15, 2019, High Tech Campus 48, Eindhoven, The Netherlands

The scientific committee and other invited experts will present lectures during a 2 day tutorial programme that explains the basic concepts of the newly defined CIE S026 metrics and quantities, discusses the relevance of this new metrology, and gives examples how to use and apply the new metrology in practice.

Preliminary Content of the Tutorial

1. Introduction & background to CIE S 026:2018
2. Circadian phototransduction and biological rhythms in man and animal models
3. Photoreceptor signalling & temporal and spatial contrasts
4. α -opic silent substitution and the human pupillary response
5. Light, alertness, health and sleep (cycles)
6. LEDs, (ocular) safety and light at night
7. Impact of light (pollution) on the ecosystem
8. S 026 calculation tool and wearable light sensors
9. α -opic metrics and luminance meters
10. Daylight and electrical light in buildings/workplaces
11. Light therapy and lighting in health(care)
12. Lighting conditions for the elderly
13. Lighting designs, architecture and (circadian) lighting models

Scientific committee:

John O'Hagan

Luc Schlangen (chair)

Luke Price

Manuel Spitschan

Peter Blattner

Rob Lucas

Local organizing committee:

Geertje Hazenberg

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