



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

CIE ONLINE TUTORIAL ON THE CIE L41 REFERENCE SPECTRUM

17 November 2026
Online through Webex

The CIE will hold an online tutorial on the **CIE Reference Spectrum L41** on **17 November 2026, from 13:00 to 15:00 CET via Webex.**

This two-hour tutorial will explain the need for an LED reference spectrum in the context of the transition from tungsten light sources to LED-based lighting. It will introduce the **CIE 251:2023 LED Reference Spectrum for Photometer Calibration**, describe its key properties, and present practical use cases in calibration, measurement, and simulation.

The tutorial will also provide guidance on implementing the reference spectrum in laboratory and industrial workflows, supporting broader adoption by photometry calibration laboratories, national metrology institutes, and manufacturers and users of photometric instruments.

For both CIE members and non-members, the tutorial offers **special package** pricing that includes access to the **CIE 251:2023 LED Reference Spectrum for Photometer Calibration** publication as part of the registration fee, making it a particularly valuable opportunity to obtain both expert training and the publication together.

This online tutorial will be particularly useful for photometry calibration laboratories, including national metrology institutes, as well as manufacturers and users of photometric instruments who are working with LED-based lighting, calibration, measurement, or simulation.

For more information, please visit the **CIE website**.

TUTORIAL PROGRAMME AND SPEAKERS

Time (KST)	Topic	Lecturer
13:00 – 13:10	Foundations of Photometry: From $V(\lambda)$ to the evolution of incandescent reference sources	Gaël Obein (CNAM, FR)
13:10 – 13:30	Spectral Mismatch challenges in the LED era and the need for CIE L41 based photometer calibration	Yuqin Zong (NIST, US)
13:30 – 13:50	Development of the CIE L41 Reference Spectrum and introduction of the spectral distribution mismatch index	Ralf Zuber (Gigahertz-Optik, DE)
13:50 – 14:10	Benefits in practical applications of CIE L41 in calibration, measurement and simulation	Weiqliang Zhao (NIM, CN)



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14:10 – 14:30	Implementing the CIE L41 Reference Spectrum in laboratory and industrial workflows	Tony Bergen (Photometric Solutions, AU)
14:30 – 15:00	Q&A and discussion	

REGISTRATION

Registration is expected to open in September. The exact opening date will be announced in due course.

In the meantime, you can register your interest [HERE](#) to receive a notification when official registration opens.

The tutorial is subject to a participation fee. A special package, including the ***CIE 251:2023 LED Reference Spectrum for Photometer Calibration*** publication, is available at a reduced rate for all participant categories, including CIE National Committee members, regular participants, students, and participants from developing countries.

Further details are available on the CIE website [HERE](#).

TUTORIAL SCIENTIFIC COMMITTEE

The scientific committee consists of the **CIE Division 2: Physical Measurement of Light and Radiation** management team.

- **Dong-Hoon Lee** – Director of Division 2
- **Gaël Obein** – Secretary of Division 2
- **Valéry Ann Jacobs** – Editor of Division 2
- **Qian (Cherry) Li** – Associate Director of Division 2
- **Tobias Schneider** – Associate Director of Division 2
- **Hiroshi Shitomi** – Associate Director of Division 2
- **Armin Sperling** – Associate Director of Division 2
- **Anders Thorseth** – Associate Director of Division 2

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