

# RAPID REVISION OF CIE 115 Lighting of Roads for Motor and Pedestrian Traffic

## Abstract

The 2025 Division 4 workshop will focus on revision of CIE 115:2010 *Lighting of Roads for Motor and Pedestrian Traffic*. This revision is required because the data are incomplete, they are outdated, and because in most cases the basis of the recommendation is unknown. While it is acknowledged that this document is in need of revision, it has been delayed whilst we wait for further research. At the 2023 Division 4 meeting it was proposed that we first target a rapid revision, using data we already have: planning for this rapid revision will also recognise the ongoing or further research needed for a later, more substantial revision. This workshop will highlight the need for revision. It will focus on key topics where revision is needed, and it will encourage debate about how the revision is carried out.

## Convenor

FOTIOS, Steve, University of Sheffield (*confirmed*)

This workshop is organized by CIE Division 4.

## Speakers

UTTLEY, Jim, University of Sheffield (*confirmed*); JAGERBRAND, Annika, University of Gävle (*confirmed*); NILSSON TENGELIN, Maria, RISE Research Institutes of Sweden (*confirmed*); MUZET, Valerie, CEREMA (*confirmed*); BOUCHER, Vincent, CEREMA (*confirmed*).

## Workshop description

This workshop will be a discussion of the action needed to revise CIE 115:2010. It will be relevant to those involved in the research and design of road lighting.

CIE 115 gives design criteria for road lighting, recommending average illuminances or luminances for P class (pedestrian) and M class (motorist) situations. There are, however, many limitations and uncertainties with CIE 115, for example that the basis of the current recommendations is unknown, it is incomplete (e.g. non-image-forming effects are not considered) and the data used are outdated. The absence of this knowledge means it is difficult to justify lighting design criteria in response to requests for reduced lighting provision to address concerns over the unwanted impacts of lighting after dark.

To stimulate discussion there will be six concise presentations highlighting the need for revision:

1. Limitations of the current document
2. Update of the M class
3. Update of the P class
4. Lighting for cyclists
5. Accounting for light pollution
6. New evidence of road surface reflectance and observer geometry

The focus of these presentations will be:

- How is the issue currently addressed in CIE 115:2010?
- What is missing?
- What could we add now to improve CIE 115:2010?
- What further research is needed?

The aim of this workshop is to seek a reaction to the limitations highlighted and the proposed plans for revision. Ample opportunity will be provided for workshop attendees to provide their own insight and to ask questions of the presenters.