



CIE Division 3 Report

CIE-USNC Annual Meeting

13 October, 2018

Terry McGowan,

CIE-USNC Division 3 Member

Overview

- CIE Division 3: Terms of Reference
- Recent Meetings
- Division 3 Priorities
- Engagement with other Lighting Organizations
- Emphasis on Daylighting
 - Related Division 3 TCs & Reporterships
- Anecdote – Audio Clip
 - *IES Annual Meeting 1922 in Lake George, NY*

CIE Division 3: Interior Environment & Lighting Design

Terms of Reference

Division 3 of the CIE is concerned with factors which influence the satisfaction of the occupants of a building with their environment, including the effects of both daylighting and electric lighting.

Its objectives are to study and evaluate those factors to provide guidance on relevant design criteria, to study design techniques (including relevant calculations) for the interior lighting of buildings, to incorporate the findings and those of other CIE divisions into lighting guides for interiors in general or of particular types.

Division 3 Priorities

- ***Important but difficult topics:***
 - 1. Recommendations for healthful lighting
 - 2. Integrated glare metric
- ***Important, neither easy nor difficult topics:***
 - 3. Conditional lighting recommendations
 - 4. Retrofitting for improved daylighting
 - 5. Post-occupancy evaluation and verification
 - 6. Lighting and the Internet of Things
- ***Somewhat important, neither easy nor difficult***
 - 7. Spectral sky models
 - 8. Design guide for lighting controls in tertiary spaces
 - 9. Lighting for display screens

Overview

- Recent Meetings
- Division 3 Priorities
- **Engagement w/ other Lighting Organizations**
- Emphasis on Daylighting
 - Related Division 3 TCs & Reporterships
- Anecdote – Audio Clip
 - *IES Annual Meeting 1922 in Lake George, NY*

Div 3 TCs & Reporterships Related to Daylighting

- **TC3-54:** REVISION OF CIE 16-1970: DAYLIGHT
- **TC3-55:** METRICS FOR SUNLIGHTING AND DAYLIGHT PASSING THROUGH SUNSHADING DEVICES
- **TC3-56:** ASSESSMENT OF DISCOMFORT GLARE FROM DAYLIGHT IN BUILDINGS
- **JTC 04 (D3/D6):** VISUAL, HEALTH, & ENVIRONMENTAL BENEFITS OF WINDOWS IN BUILDINGS DURING DAYLIGHT HOURS
- **Reporterships:**
 - **DR3-29** Variable transmission glazing (VTG): Current trends and future prospects for uptake by the building sector
 - **DR3-31** Available Daylight Metrics

Anecdote Audio Clip

“Since you’re meeting in Lake George, NY, I thought you might be interested in a bit of lighting history that occurred there. The attached MP3 audio file tells the story. It involves the IES and their annual conference of 1922 as reported by the then IES President, Ward Harrison. The person who organized the lighting display referred to by Mr. Harrison was D’Arcy Ryan who was one of the first, if not the first, to be called a “lighting designer”. His specialty was lighting spectacles. I think you’ll find the short audio clip interesting and perhaps others at the USNC meeting will as well. I made the recording in 1966 when I was with GE Lighting at Nela Park.” – Terry McGowan

FIN