



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

PROCEEDINGS OF THE CIE (INTERNATIONAL COMMISSION ON ILLUMINATION)

**PROCEEDINGS OF THE CIE 2025
MIDTERM MEETING VIENNA,
AUSTRIA, JULY 4-11, 2025:
SCIENTIFIC CONFERENCE
(JULY 7-9, 2025)**

CIE x051:2025

**ISBN 978-3-902842-76-3
DOI 10.25039/x051.2025**

**PART 1 —
INTRODUCTION TO CIE 2025
SCIENTIFIC CONFERENCE AND
CONFERENCE POLICIES**

1 The CIE 2025 Scientific Conference as part of the CIE Midterm Meeting Vienna, Austria, 4-11 July, 2025

CIE Scientific Conferences are a specific type of CIE events and are held every 2 years, as part of the CIE Quadrennial Sessions and the CIE Midterm Meetings. For all official CIE events, a scientific committee is responsible for the programme and its quality assurance. CIE Scientific Conferences have a Scientific Programme Committee (ISPC) and an additional team of reviewers who oversee the selection process (double-blind peer review) of all conference contributions.

The CIE 2025 Scientific Conference was held from July 7-9, 2025 at the Austria Center Vienna (ACV). This three-day conference brought together the CIE community and its stakeholders to advance the science of light and lighting, as well as the technical and organizational work of the CIE. The scientific conference was preceded by the CIE General Assembly and other administrative meetings from July 4-6, 2025, and followed by the CIE Division and Technical Committee (TC) meetings on July 10-11, 2025.

The CIE Midterm Meeting 2025 was hosted by the Central Bureau (CB) of the CIE in Vienna and the Local Organizing Committee (LOC) was comprised of the following CIE staff members:

- Diana Wernisch, Secretary General of the CIE and Head of the CIE Central Bureau
- Shahidul Islam, Technical Manager, CIE Central Bureau
- Noemi Kolloch, Events and Science Programme Manager, CIE Central Bureau
- Seda Gasparyan, Communications Officer, CIE Central Bureau

2 Scope of Contributions to the CIE 2025 Scientific Conference

The CIE is the peak global organisation devoted to worldwide cooperation and exchange of information on all matters related to science, technology, and the art of light and lighting, including indoor and outdoor applications and lighting design, colour and vision, measurement topics, photobiology and photochemistry, as well as image technology. Accordingly, at the CIE 2025 conference, all six Scientific Divisions addressed key topics, including the influence of digital advancements and AI on lighting, controls, and measurement. CIE welcomed contributions across the full scope of CIE topics covered by its Divisions: *Vision and Colour*, *Physical Measurement of Light and Radiation*, *Interior Environment and Lighting Design*, *Transportation and Exterior Applications*, *Photobiology and Photochemistry*, and *Image Technology*. Contributions and discussions also covered the use of cone fundamentals in light perception, health impacts like temporally modulated light and glare, and the evaluation of VR/AR displays. Research and efforts to reduce obtrusive light and sky glow were also highlighted. Furthermore, CIE welcomed contributions on associated topics such as smart lighting, sustainable lighting technologies and practices, integrative lighting for indoors and outdoors, metrology for new technologies, and image display in AR/VR modes.

3 Members of the ISPC and the team of additional reviewers

CIE Scientific Conferences require the formation of an International Scientific Programme Committee (ISPC), regularly comprised of the CIE's Vice-President Technical, chairing the ISPC, the Secretary General as the Managing Editor for all of CIE's publications (or a delegate from the CIE Central Bureau in this role) and each two delegates representing every CIE Division as well as two scientific representatives from the local host. The function of the ISPC is to plan and organize the scientific content of the conference and the ISPC is tasked with ensuring the conference's scientific quality and integrity, based on the organization's scientific policies, standards, and procedures. The review and selection process for the curated program parts (keynotes, workshops) as well as the double-blind peer-reviewed program parts (all oral and poster presentations), including the selection of the Best Paper/Best Poster/Best Student Paper Award are also under the auspices of the ISPC. The ISPC members are members of the Editorial Board for the respective conference proceedings volume, as published in the publication series *Proceedings of the CIE (International Commission on Illumination)*.

Table 1 – CIE 2025 International Scientific Programme Committee (ISPC)

Member	Country	CIE Affiliation	Professional Affiliation
Tony Bergen	AU	CIE Vice-President Technical, TMB Member	Photometric Solutions International
Kaida Xiao	GB	Director of Division 1, TMB Member	University of Leeds
Li-Chen Ou	TW	Secretary of Division 1	National Taiwan University of Science and Technology
Dong-Hoon Lee	KR	Director of Division 2, TMB Member	Korea Research Institute of Standards and Science (KRISS)
Gaël Obein	FR	Secretary of Division 2	LNE-INM/Cnam
Nozomu Yoshizawa	JP	Director of Division 3, TMB Member	Tokyo University of Science
Anna Pellegrino	IT	Associate Director of Division 3	Politecnico di Torino
Dionyz Gasparovsky	SK	Director of Division 4, TMB Member	Slovak National Committee of the CIE/Typhoon
Steve Fotios	GB	Associate Director of Division 4	Sheffield University
Wei Zhang	CN	Director of Division 6, TMB Member	National Lighting Test Centre (NLTC)
Laura Bellia	IT	Division 6	University of Naples
Noël Richard	FR	Director of Division 8, TMB Member	XLIM-SIC laboratory, Poitiers's University
Peter Dehoff	AT	President, NC Austria	Zumtobel
Rudi Hornischer	AT	Supportive Member, NC Austria	MA 39 – Laboratory and Certification Services (City of Vienna)
Shahidul Islam	AT	CIE Technical Manager	CIE Central Bureau, CIE (International Commission on Illumination)
Diana Wernisch	AT	Secretary General of the CIE	CIE Central Bureau, CIE (International Commission on Illumination)

A total of 65 reviewers participated in evaluating the submitted contributions, including all members of the ISPC (excluding CIE Central Bureau staff members), plus additional reviewers as nominated by the Divisions to the ISPC, based on scientific expertise in the required thematic fields. Altogether, 589 individual reviews (double-blind) were performed for all received conference submissions.

4 Types of Contributions and Submission, Review and Selection Process

For this conference, authors could submit papers and designate whether they were submitting to the oral or poster presentation program slots. Importantly, both presentation types were based on the same set of submission templates and regulations and both undergoing the same rigorous review process.

So-called Short Papers formed the basis of the initial scientific review: These contributions (typically 2-3 pages, maximum 4 pages) included a 150-word abstract and a structured summary of the work. All submissions (Short Papers) were anonymized for the review process. The ISPC, supported by the CIE Central Bureau, coordinated the review process (reviewer assignment, re-assignment upon conflict of interest or wrong area of expertise, reviewer briefing, etc.) and a broad pool of expert reviewers from across all CIE Divisions performed the double-blind peer review on all eligible (templates used as required, etc.) submissions received.

A total of 289 submissions were received, underwent the eligibility check and subsequently the peer review process. The review itself used uniform evaluation and ranking scales and criteria across all submission types, evaluating relevance to the conference, scientific quality, clarity, methodology, and contribution to the field. Upon completion of the peer review process, 257 submissions were accepted and the authors invited to submit a revised final version of their paper.

Authors thus received reviewer comments and were required to submit a revised version of their contribution as part of the final submission and review phase. Authors could choose whether to submit their revised version as a paper developed into a so-called Full-length Paper (6-10 pages) or as a revised Short-Paper. In addition, authors had the option to select a publication opt-out: Importantly, their contribution also underwent the full peer review and the paper also needed to be re-submitted in a revised form in order to receive its final acceptance; however, only the abstract is published in the conference proceedings.

Upon completion of the second stage submission and review process, a total of 153 Full-length Papers, 64 revised Short Papers and 20 Short Papers with publication opt-outs were accepted.

Based on the final, revised submissions and the review scores, the ISPC assigned contributions to three main presentation formats: Oral presentations (15 minutes), short oral “presented poster” presentations (5 minutes, in combination with a poster presentation), and poster presentations. Importantly, in a first step, the best-ranked out of all accepted presentations in both presentation formats that authors could submit to (oral presentation or poster presentation) were filled up. After the first step, any remaining free poster presentation slots were offered to those who had initially submitted to the oral presentation track but who – based on the ranking of their paper – did not receive an oral presentation slot of 15 minutes. Finally, those with the best-ranked papers in the poster presentation track, were offered a place for a session with so-called short oral “presented poster” presentation (5 minutes oral presentation to introduce a poster on display during one of the poster sessions).

In cases where authors withdrew after acceptance or had to cancel, vacant slots were filled up according to the review results.

Oral presentations: In total, 38 oral presentations were delivered across 9 thematic sessions. Each oral presentation was 15 minutes, followed by discussion time in each thematic session.

Short oral presentations (“presented posters”): Each presenter delivered a 5-minute oral summary of their work in one of three dedicated presented poster sessions (these were scheduled immediately ahead of the poster sessions) and subsequently presented their poster during the poster session. In total, 26 short oral presentations were given, followed by their additional presentation in the classical poster session.

Poster presentations: The presenters displayed and presented their posters during a dedicated poster session (1,5 hours). Two poster sessions on two different days were held (no other parallel sessions scheduled) and in total 150 posters were presented.

Timeline for submissions, review process, final revision and acceptance

The most important dates for the submission, review, and selection process were as follows:

- **13 September, 2024:** Call for Contributions got published, submission system opened
- **10 December, 2024:** Submission deadline for conference contributions – Peer review started

- **3 March, 2025:** Review results were announced – Submission of Full-length Papers and revised Short Papers opened
- **1 May, 2025:** Submission deadline for revised papers (incl. Full-length Papers) – Start of final programming

5 Policies, Quality Assurance, Author & Reviewer Guidelines, Research Integrity and Ethics

The submission, review, and selection process for the CIE 2025 Scientific Conference was coordinated centrally by the CB and overseen scientifically by the ISPC. All contributions were handled exclusively through the commercial conference submission and reviewing system *ConfTool*. Authors were required to use official CIE 2025 templates (Short Paper and Full-length Paper) and to follow the *CIE 2025 Author Guidelines*, which set out all details for the CIE 2025 scientific procedures and regulations as well as requirements for structuring, formatting, references, notation, and scientific integrity.

All processes, regulations, and the *CIE 2025 Author Guidelines* were grounded in the CIE's overall editorial policies, the *CIE Code of Procedure* and ethics framework (*CIE Code of Ethics*). Upon submission, authors also had to confirm legal aspects (copyright, data protection, etc.) as well as having regarded CIE's standards for scientific work and integrity, as outlined and referenced in the *CIE 2025 Author Guidelines*.

To ensure consistency and quality, reviewers were provided with written reviewer guidelines and an online webinar explaining the review criteria, how to apply the scoring scales, and how to handle potential conflicts of interest and other issues of concern, including the procedures for requesting the reassignment of papers when necessary.

CIE scientific conferences also include sponsor and exhibitor options. Exhibitors were located in designated conference areas separate from all scientific sessions. Sponsors contributed to the conference exclusively through marketing and promotional activities. Sponsors and exhibitors hold commercial contracts with the local conference organizer detailing their rights and excluding any influence whatsoever on the scientific content, peer-review procedures, acceptance decisions, or programme design.

Upon submission, authors also confirmed the *CIE 2025 Publishing Agreement*, which regulates the lawful publication and distribution by the CIE. All final CIE 2025 papers (Full-length Papers, Short Papers) accepted are included in the CIE 2025 Scientific Conference volume of the publication series *Proceedings of the CIE (International Commission on Illumination)* which is available for purchase from the [CIE Webshop](#). All Full-length papers are also available for purchase as individual papers, with a separate DOI assigned at paper level. In addition, authors could select an open access publishing option for Full-length Papers, whereby an additional fee applied. These open access Full-Length Papers are published under the *Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0)* and available free of charge both from the [CIE 2025 Scientific Conference Proceedings website](#) and from the [CIE Webshop](#).

Full references to the editorial policies can be found on the website of the publication series *Proceedings of the CIE (International Commission on Illumination)* ISSN no. 3061-015X (print), 3061-0168 (online): <https://cie.co.at/publications/proceedings>.

All author guidance and templates as they were relevant for this CIE 2025 Scientific Conference volume (CIE x051:2025) of the *Proceedings of the CIE* are provided at: <https://doi.org/10.25039/x051.2025>.

6 Program of CIE 2025

The conference programme was structured into thematically coherent sessions spread across three days. Two dedicated poster sessions were scheduled without any parallel activities. A series of workshops ran in parallel in a dedicated workshop block, and each conference day featured one keynote lecture to highlight a major topic of broad relevance.

Conference Programme - July 7-9, 2025

Sunday, July 6, 2025			
Place: Vienna City Hall, Arkadenhof - entrance at Lichtenfelsgasse 2			
19:00	Welcome Reception at the Vienna City Hall by invitation of the Mayor of Vienna		
Monday, July 7, 2025			
Place: Austria Center Vienna, entrance 1			
Hall D			
9:00 - 09:15	Opening Welcome by local host, Diana Wernisch, CIE Secretary General, AT Welcome by Jennifer Veitch, CIE President, CA		
9:15 - 10:15	Keynote lecture 1 Session Chair: Tony Bergen, AU THE MULTIFACETED IMPACTS OF LIGHT-POLLUTION Dietmar Hager, AT		
10:15 - 10:45	MORNING COFFEE BREAK		
	Hall D	Hall K1	Hall K2
Oral Presentations			
10:45 - 12:25	OS1 D3/D8 - Interior lighting Chair: Adrie DE VRIES, NL ID173	OS2 D2 - Photometry & radiometry 1 Chair: Dong-Hoon LEE, KR ID253	OS3 D4 - Exterior lighting Chair: Steve FOTIOS, UK ID225
10:45 - 11:00	Zhujing ZHANG, CH SPATIO-TEMPORAL DYNAMICS OF KOMOREBI LIGHT PATTERNS ID222	Aarre KILPELÄINEN, FI STABILITY OF INDUCED JUNCTION PHOTODIODES UNDER UV IRRADIATION ID268	Masayuki IKEBUCHI, JP EFFECT OF FLUCTUATING EXTERIOR LIGHTING ON IMPRESSION: INFLUENCE OF THE NUMBER OF LUMINAIRES AND INSTALLATION INTERVAL ID263
11:00 - 11:15	Saori UENO, JP EFFECT OF TARGET AND AMBIENT LIGHTING ON SPATIAL IMPRESSION AND SUBJECTIVE VISUAL PERFORMANCE ID273	Masoud RASTGOU, FI ENHANCING MEASUREMENT ACCURACY IN MICROSCOPE-BASED REFLECTOMETRY FOR THIN FILM OPTICAL CHARACTERIZATION ID235	Yichen JIANG, CN INTEGRATING EMOTIONAL AND VISUAL DIMENSIONS IN URBAN LIGHTING DESIGN: A HOLISTIC APPROACH USING THE PAD MODEL AND LIGHT FIELD METRICS ID296
11:15 - 11:30	Yunyi ZENG, CN HOW LIGHT VARIES ACROSS DIFFERENT LEVELS: INSPECTING CONVERGENCE AND DISCREPANCIES IN MEASUREMENTS FROM FIXED OUTDOOR AND INDOOR MONITORING AND PERSON-WORN SENSORS ID358	Tobias SCHNEIDER, DE A MATHEMATICAL FRAMEWORK FOR COMPARING PHOTOMETRIC OBSERVERS ID267	Joffrey GIRARD, FR IS THE COST 331 SOFTWARE STILL RELEVANT FOR CHARACTERISING THE VISIBILITY OF ROAD MARKINGS? ID218
11:30 - 11:45	Robert SUPRONOWICZ, PL NOVEL APPROACH TO INTEGRATIVE LIGHTING DESIGN FOR DIFFERENT AGE GROUPS: A COMPREHENSIVE METHOD FOR PARAMETERIZING LIGHTING SITUATIONS ID176	Nathan SLEMBROUCK, BE PSYCHOPHYSICAL EXPERIMENT TOWARDS A MEASUREMENT SCALE OF SPARKLE ID199	Kazuki TSUKAGOSHI, JP LUMINANCE CONTRAST THRESHOLD UNDER ROAD LIGHTINGS IN REVERSED SILHOUETTE VISION AND SILHOUETTE VISION ID141
11:45 - 12:00	David GEISLER-MORODER, AT TOWARDS AN ISO/CIE STANDARD FOR BSDF CHARACTERIZATION OF SHADING AND DAYLIGHTING SYSTEMS	Sofia MELERO-TUR, ES EXPLORING DAILY LIGHT EXPOSURE: DOCUMENTING REAL-LIFE DATA WITH PERSONAL LIGHTLOGGERS IN SPAIN	Benjamin LEGRAND, FR STATIC AND DYNAMIC ASSESSMENTS OF LIGHTING QUALITY: A FIELD EXPERIMENT
12:00 - 12:25	Discussion	Discussion	Discussion
12:25 - 13:25	LUNCH BREAK		
	Hall D	Hall K1	Hall K2
Workshops			
13:25 - 15:05	WS2 (D3) Convenor: Anna PELLEGRINO, IT TAILORING INDOOR LIGHTING REQUIREMENTS TO MEET USERS' NEEDS Speakers: Craig BERNECKER, USA Adrie DE VRIES, NL Johannes WENINGER, AT	WS1 (D1) Convenor: Ronnier LUO, CN PERSONAL COLOUR MANAGEMENT FOR DISPLAY DEVICES AND CONSUMER PRODUCTS Speakers: Andrew STOCKMAN, UK Andrew RIDER, UK Alan SONG, CN Minchen WEI, HK	WS3 (D6) Convenors: David SLINEY, USA ELECTRIC LIGHT EFFECT ON INSECTS AND WILDLIFE Speakers: Gang LIU, CN Jolyon TROSCIANKO, UK Ting XU, CN
15:05 - 15:35	AFTERNOON COFFEE BREAK		

	Hall D	Hall K1	Hall K2
	Presented Posters (PS)		
15:35 - 16:20	PS2 Presented Posters (D3) Chair: Etsuko MOCHIZUKI, JP	PS1 Presented Posters (D2/D3) Chair: Gaél OBEIN, FR	PS3 Presented Posters (D1/D2/D6) Chair: Yan LU, UK
	ID323	ID123	ID394
15:35 - 15:40	Hiroyuki MIYAKE, JP FURTHER DEVELOPMENT OF THE CALCULATION MODEL FOR SPACIOUSNESS TO INCLUDE THE EFFECTS OF WINDOWS AND EXTERNAL SPACE	Kenji GODO, JP POTENTIAL OF LED-BASED STANDARD SOURCE PROVIDING CIE STANDARD ILLUMINANT A	Simone BONAVIA, UK THE EFFECT OF LIGHT DIRECTION ON PUPILLARY LIGHT REFLEX: A PILOT STUDY
	ID197	ID137	ID177
15:40 - 15:45	Elif HARPUTLUOĞLU, TR DAYLIGHT PERFORMANCE OF PERFORATED SOLAR SCREEN FACADES IN OFFICES: A CASE STUDY	Gusztáv HANTOS, HU RESULTS OF THE JOINT LED AGING EXPERIMENT OF THREE UNIVERSITY LABORATORIES WITHIN THE AI-TWILIGHT PROJECT	Roland BRÉMOND, FR THE VISIBILITY OF TARGETS: DISCS VS GRATINGS
	ID333	ID138	ID359
15:45 - 15:50	Beatrice YUEN, CH ABILITY OF COMMON GLARE INDICES TO EVALUATE DISCOMFORT GLARE IN THE PRESENCE OF MULTIPLE ELECTRIC LIGHT SOURCES	András POPPE, HU LIFETIME MULTI-DOMAIN MODELING OF MID-POWER LEDS	Erkki IKONEN, FI RELATION OF CONE FUNDAMENTALS TO UNITS, QUANTITIES AND SYMBOLS
	ID338	ID158	ID206
15:50 - 15:55	Muhammed TOKUŞLU, TR ENERGY-EFFICIENT LIGHTING DESIGN FOR HAGIA EIRENE: TAILORED SOLUTIONS FOR WORSHIP, CONCERT AND MUSEUM SETTINGS	Weiqliang ZHAO, CN LED PHOTOMETRIC MEASUREMENT BASED ON LED STANDARD LAMPS	Diana SOTO, MX ASSESSING VISUAL ATTENTIVENESS IN RETAIL ENVIRONMENTS USING A HUMAN SUBJECT-BASED TESTING PROTOCOL BASED ON JUST NOTICEABLE DIFFERENCES
	ID362	ID242	ID341
15:55 - 16:00	Kazuto TAKASE, JP STUDY ON SPATIAL BRIGHTNESS EVALUATION USING OLED LIGHTING	Yuri NAKAZAWA, JP WAVELENGTH CALIBRATION WITH A TUNABLE MONOCHROMATIC SOURCE BASED ON A SUPERCONTINUUM SOURCE	Máté SZABÓ, HU HETEROCHROMATIC BRIGHTNESS MATCHING AND RED-GREEN COLOUR VISION DEFICIENCY RECOGNIZING WITH A SOFTWARE BASED ON APPARENT MOVEMENT
	ID269	ID325	ID190
16:00 - 16:05	Cláudia AMORIM, BR DAYLIGHT REQUIREMENTS AND METRICS IN PRACTICE: A CLIMATIC ANALYSIS OF CURRENT CRITERIA	Lou GEVAUX, FR HIGH DYNAMIC RANGE IMAGING METHODS FOR TRACEABLE OPTICAL MEASUREMENTS	Erkki IKONEN, FI ACCOUNTING FOR SPECTRAL CORRELATIONS IN UNCERTAINTY ANALYSIS OF SPECTRAL INTEGRALS
	ID348	ID357	ID343
16:05 - 16:10	Asuka MOMIYAMA, JP DEVELOPMENT OF PHOTON FLOW THROUGH PRACTITIONER DIALOGUES – DESIGNING EXHIBITION SPACES ENVELOPED IN DIFFUSE LIGHT	Constantinos BOUROUSSIS, CH OUTDOOR INTERCOMPARISON OF HDR IMAGING LUMINANCE MEASUREMENT SYSTEMS USING A HIGH CONTRAST LUMINANCE SCENE	Yasaman REZAZADEH, FI UNCERTAINTY EVALUATION OF COLOUR MEASUREMENTS
		ID210	ID390
16:10 - 16:15		Chikako YABE, JP STUDY ON CALCULATING LUMINANCE DISTRIBUTIONS BY INCORPORATING THE ESTIMATED MODELS OF DIRECTIONAL REFLECTANCE CHARACTERISTICS FROM SIMPLIFIED MEASUREMENTS INTO RADIANCE	Sneha JAIN, US APPLICABILITY OF CIE SUPPLEMENTARY PHOTOMETRY FOR GLARE PREDICTION UNDER COLORED DAYLIT SCENES
		ID319	ID383
16:15 - 16:20		Lou GEVAUX, FR EFFECTS OF CAMERA APERTURE ON STRAY LIGHT IN HIGH DYNAMIC RANGE LUMINANCE IMAGING	Semin OH, DE COLOUR ASSIMILATION EFFECTS ON FACES IN FOVEAL AND PERIPHERAL VISION USING CURVED DISPLAY SYSTEM
	Foyer K		
16:20 - 17:50	Poster Session 1 (see list of posters below)		
	Place: Dschungel Café Fürstenhof, Museumsquartier, Museumsplatz 1/Hof 2		
19:00 - 21:00	Networking event for students		
	Meeting point (21:00): Dschungel Café Fürstenhof, Museumsquartier, Museumsplatz 1/Hof 2		
21:15 - 23:45	Sightseeing tour (by registration) with introduction to light show		
23:30 - 23:45	Public light show in front of the Vienna City Hall at 23:30		

Tuesday, July 8, 2025			
Place: Austria Center Vienna, entrance 1			
Hall D			
8:30 - 09:30	Keynote lecture 2 Session Chair: Peter Blattner, CH APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN THE COLOUR INDUSTRIES Stephen Westland, GB		
9:30 - 10:00	MORNING COFFEE BREAK		
	Hall D	Hall K1	Hall K2
	Oral Presentations		
10:00 - 11:40	OS4 D3 - Daylight Chair: Anna PELLEGRINO, IT ID179	OS5 D4 - Revision of CIE 115 Chair: Jerome DEHON, BE ID119	OS6 D1/D3/D8 - Vision & colour 1 Chair: Li-Chen OU, TW ID113
10:00 - 10:15	Martine KNOOP, DE A ROUND ROBIN FOR A WORLDWIDE DAYLIGHT MEASUREMENT CAMPAIGN: INSIGHTS, CHALLENGES, AND LESSONS LEARNED ID353	Steve FOTIOS, UK OPTIMAL ILLUMINANCE FOR PEDESTRIAN REASSURANCE ID260	Lorne WHITEHEAD, CA ALGEBRAIC & ELECTROMAGNETIC MODELLING OF L, M, S CORNEAL SPECTRAL SENSITIVITIES USING A SINGLE PHOTOPIGMENT TEMPLATE ID156
10:15 - 10:30	Matej KOBAV, SI ESTABLISHING A FRAMEWORK FOR COLLECTION OF COLORIMETRIC CHARACTERISTICS OF DAYLIGHT WITH AFORDABLE FISH-EYE ACTION CAMS ID367	Jim UTTLEY, UK DARKNESS INCREASES RISK OF SPECIFIC CRIMES ID153	Hermine CHATOUX, FR HOW WELL DO HUMAN PERCEIVE NON-UNIFORM SURFACE NOISE VARIATION? ID171
10:30 - 10:45	Cláudia AMORIM, BR DAYLIGHT AND VIEW OUT: A COMPARATIVE STUDY BETWEEN BRAZILIAN AND EUROPEAN CONTEXTS ID193	Valérie MUZET, FR ON SITE CHARACTERISATION OF ROAD SURFACES REFLECTION PROPERTIES FOR SEVERAL OBSERVATION ANGLES ID236	Suzu TAYAMA, JP ESTIMATION MODEL OF VISIBILITY BASED ON THE CHROMATIC MECHANISM IN NEUROPHYSIOLOGY ID191
10:45 - 11:00	Barbara MATUSIAK, NO EVALUATING WINDOW VIEWS: INSIGHTS INTO PERCEPTUAL DIFFERENCES BETWEEN OWNERS AND OBSERVERS ID202	Sermin ONAYGIL, TR MACHINE LEARNING BASED REAL-TIME PREDICTION OF LIGHTING CLASSES IN ADAPTIVE ROAD LIGHTING SYSTEMS ID315	Shining MA, CN STUDY ON PERCEIVED WHITE POINT OF WIDE COLOUR GAMUT DISPLAY ID196
11:00 - 11:15	Chikako OHKI, JP DEVELOPMENT OF AN EVALUATION METHOD FOR VIEW QUALITY IN OFFICE BUILDINGS ID202	Annika JÄGERBRAND, SE COMPARATIVE ANALYSIS OF INTERNATIONAL LIGHT POLLUTION GUIDELINES IN ECOLOGY: TOWARDS EVIDENCE-BASED MITIGATION STRATEGIES AND ECOLOGICAL THRESHOLDS ID315	Sophie JOST, FR COLOURED SUNGLASS SIMULATION USING HYPERSPECTRAL IMAGING AND ICAM06 ID196
11:15 - 11:40	Discussion	Discussion	Discussion
11:40 - 12:40	LUNCH BREAK		
	Hall D	Hall K1	Hall K2
	Workshops		
12:40 - 14:20	WS4 (D2) Convenors: Jan WIENOLD, CH Constantinos BOUROUSSIS, CH Johannes LEDIG, DE HDR IMAGING FOR ASSESSMENT OF GLARE AND OF OBTRUSIVE LIGHT Speakers: Jan WIENOLD, CH Johannes LEDIG, DE Lou GEVAUX, FR Constantinos BOUROUSSIS, CH Horst PRIBITZER, AT	WS5 (D4) Convenor: Steve FOTIOS, GB RAPID REVISION OF CIE 115 LIGHTING OF ROADS FOR MOTOR AND PEDESTRIAN TRAFFIC Speakers: Jim UTTLEY, UK Annika JAGERBRAND, SE Maria TENGELIN, SE Valerie MUZET, FR Vincent BOUCHER, FR	WS6 (CIE SP Education) Convenor: Luoxi HAO, CN ACADEMIC & PROFESSIONAL LIGHTING EDUCATION Speakers: Xin ZHANG, CN Agnes URBIN, HU Thomas RÖHMHILD, DE
14:20 - 14:50	AFTERNOON COFFEE BREAK		

	Hall D	Hall K1	Hall K2
	Oral Presentations		
	OS7	OS8	OS9
14:50 - 16:10	D3/D6 - Lighting for health and well-being Chair: Laura BELLIA, IT	D2/D4 - Anthropogenic light at night Chair: Steve LAU, CN	D3/D4 - Glare Chair: Cláudia AMORIM, BR
	ID198	ID279	ID275
14:50 - 15:05	Mehlika INANICI, USA METROLOGY FOR NEUROPIG RESPONSE TO LIGHT: A CASE STUDY IN A NEONATAL INTENSIVE CARE UNIT	Stefan KÄLLBERG, SE SPILL LIGHT IN A SENSITIVE COASTAL AREA: COMPARING TWO DIFFERENT LIGHTING INSTALLATIONS	Yuki YOSHIDA, JP TOWARDS RESILIENT LIGHTING DESIGN FOR DISASTER REFUGES PART 2: LIGHTING CONDITIONS OF JAPANESE GYMNASIUMS USED DURING ACTUAL DISASTERS
	ID321	ID334	ID145
15:05 - 15:20	Dandan HOU, CN INDIVIDUAL DIFFERENCES IN PHOTOBIOLOGICAL EFFECTS: A COHORT STUDY APPROACH	Filip NOVAK, CZ DETERMINATION OF NATURAL REFERENCE LEVELS OF ILLUMINANCE AND EXPOSURE IN THE NIGHT ENVIRONMENT FOR THE ASSESSMENT OF LIGHT POLLUTION LEVELS	Roland BRÉMOND, FR DISABILITY GLARE FROM PHOTOVOLTAIC PANELS IN AIRPORTS
	ID211	ID301	ID257
15:20 - 15:35	Iza LINDERS, AU LIGHT EXPOSURE AND SLEEP QUALITY IN ICU PATIENTS: PRELIMINARY PILOT FINDINGS	Constantinos BOUROUSSIS, CH METROLOGY OF OUTDOOR LIGHT EMISSIONS AT NIGHT USING UNMANNED AERIAL PLATFORMS	Michel VISSENBERG, NL COMFORT VIEW ZONE: MEASURING DISCOMFORT GLARE
	ID374	ID342	ID335
15:35 - 15:50	Shujian DAI, CN A CONTROLLED EXPERIMENT ON THE EFFECTS OF ARTIFICIAL LIGHTING ON PUERPERAE SLEEP, FATIGUE AND MOOD	Martin MOTYČKA, CZ THE OBTRUSIVE LIGHT MEASUREMENT WITH UNMANNED AERIAL VEHICLE	Jan WIENOLD, CH DO CIE-RECOMMENDATIONS FOR PROPER LIGHT AT THE PROPER TIME CONFLICT WITH GLARE?
15:50 - 16:10	Discussion	Discussion	Discussion
	Foyer K		
16:10 - 17:40	Poster Session 2 (see list of posters below)		
	Place: Wolke 19, Ares Tower, Donau-City-Straße 11		
19:30	Gala Dinner (by registration)		

Wednesday, July 9, 2025			
Place: Austria Center Vienna, entrance 1			
Hall D			
8:30 - 09:30	Keynote lecture 3 Session chair: Jennifer Veitch, CA LIGHT AND HUMAN HEALTH George Brainard, USA		
9:30 - 10:00	MORNING COFFEE BREAK		
	Hall D	Hall K1	Hall K2
	Oral Presentations		
10:00 - 11:40	OS10 D3 - Integrative lighting 1 Chair: Gilles VISSENBERG, NL	OS11 D2 - Photometry & radiometry 2 Chair: Hiroshi SHITOMI, JP	OS12 D1/D8 - Vision & colour 2 Chair: Yoko MIZOKOMI, JP
	ID109	ID124	ID200
10:00 - 10:15	Anders THORSETH, DK PERFORMANCE OF MELANOPHYSIN-BASED SPATIAL BRIGHTNESS METRICS	Irena FRYC, PL RECIPE FOR TYPICAL MINIMUM AND MAXIMUM SPECTRAL MISMATCH CORRECTION FACTOR USING BROADBAND PHOTOMETER MEASUREMENTS AND CATALOG PARAMETERS FOR TESTED WHITE LED SOURCES	Qinyuan LI, UK DEVELOPMENT OF A DATABASE FOR FABRIC VISUAL APPEARANCE
	ID186	ID189	ID201
10:15 - 10:30	Kate TURLEY, UK A DEMENTIA PERSPECTIVE: INTERACTIVE WORKSHOPS HIGHLIGHTING INTEGRATIVE LIGHTING PREFERENCES FROM A DEMENTIA COHORT	Minoru TANABE, JP CHANGE IN SPECTORADIOMETER CHARACTERISTICS ON CHROMATICITY FOR TRICOLOUR LASER LIGHT SOURCES	Yan LU, UK SKIN COLOUR PERCEPTION IN HUMAN FACES AND TEXTURED PATCHES
	ID187	ID241	ID285
10:30 - 10:45	Roel DANEELS, BE INCREASING PERFORMANCE IN THE OFFICE WHEN WORKING WITH MONITORS: A PILOT STUDY	Guillaume DOTREPPE, BE ASSESSMENT OF THE VALIDITY OF THE CURRENT MINIMAL TEST DISTANCES OF (O)LED LUMINAIRES	Jiaye LI, FR COMPARATIVE EVALUATION OF CIE SPECTRAL LUMINOUS EFFICIENCY FUNCTIONS USING LED-BASED BRIGHTNESS AND COLOUR MATCHES
	ID349	ID316	ID373
10:45 - 11:00	Nuoyi LI, CN INTEGRATED LIGHTING FOR ENCLOSED SPACES FOCUSING ON VISUAL AND NON-VISUAL EFFECTS TO IMPROVE WORKERS' WELL-BEING	Yuqin ZONG, US CHARACTERIZATION AND CALIBRATION OF TRANSFER-STANDARD SPECTORADIOMETERS USING A TUNABLE LASER	Molin LI, CN INVESTIGATION OF DIFFERENT HELMHOLTZ-KOHLRAUSCH (H-K) FORMULAE
	ID181	ID331	ID397
11:00 - 11:15	Elif HARPUTLUOGLU, TR INTEGRATIVE LIGHTING IN EDUCATIONAL ENVIRONMENTS: A CRITICAL ANALYSIS OF CURRENT LITERATURE AND FOOD FOR THOUGHT FOR FUTURE RESEARCH ACTIVITIES AND DESIGN PRACTICE	Oskari KUITTINEN, FI BROADBAND LIGHT SOURCE BASED ON LIGHT-EMITTING DIODES FOR RADIOMETRIC CALIBRATIONS IN THE ULTRAVIOLET REGION	Sophie JOST, FR VALIDITY OF CIE COLOR MATCHING FUNCTIONS FOR OLED-LCD MIXED TECHNOLOGY MATCHES
11:15 - 11:40	Discussion	Discussion	Discussion
11:40 - 12:40	LUNCH BREAK		
	Hall D	Hall K1	Hall K2
	Oral Presentations		
12:40 - 14:20	OS13 D3 - Integrative lighting 2 Chair: Peter DEHOFF, AT	OS14 D3/D8 - Virtual reality application in lighting Chair: Nozomu YOSHIZAWA, JP	OS15 D4 - Walking and cycling Chair: Sermin ONAYGIL, TR
	ID182	ID132	ID379
12:40 - 12:55	Salvatore DI NUZZO, IT STUDENTS' "LUMINOUS DIET": ARE EDUCATIONAL BUILDINGS DESIGNED TO PROVIDE THE PROPER DAILY LIGHT DOSAGE?	Kanae ISHIHARA, JP MACHINE LEARNING AIDED APPROACH TO ESTIMATE IMPRESSION FOR RESIDENTIAL LIGHTING IMAGES	Anna PELLEGRINO, IT LIGHTING PUBLIC SPACES FOR PEOPLE WELL-BEING: RESULTS FROM AN IN-FIELD MEASUREMENT CAMPAIGN
	ID205	ID248	ID261
12:55 - 13:10	Cláudia AMORIM, BR DAYLIGHT – VISUAL AND NON-VISUAL EFFECTS IN THE CONTEXT OF NEARLY ZERO ENERGY BUILDING: THE LABZERO CASE	Francisca RODRIGUEZ, AU INTEGRATING VIRTUAL REALITY AND EYE-TRACKING TO ASSESS THE RESTORATIVE POTENTIAL OF DYNAMIC VISUAL CONDITIONS	Jim UTTLEY, UK THE PRESENCE OF ROAD LIGHTING LEADS TO MORE CYCLING
	ID183	ID180	ID120
13:10 - 13:25	Francesca DIGLIO, IT CLOSED-LOOP PROPORTIONAL DAYLIGHT-LINKED CONTROL SYSTEMS: HOW TO CALIBRATE THEM FOR INTEGRATIVE LIGHTING PURPOSES?	Martine KNOOP, DE COLOUR OF THE SKY - A PILOT STUDY TO EXPLORE GEOGRAPHICAL DIFFERENCES IN THE SPECTRAL PROPERTIES OF TWILIGHT	Steve FOTIOS, UK BIOMOTION LIGHTING ENHANCES CYCLIST CONSPICUITY
	OS13 continued on next page	OS14 continued on next page	OS15 continued on next page

12:40 - 14:20 (session cont.)	OS13 (continued) D3 - Integrative lighting 2	OS14 (continued) D3/D8 - Virtual reality application in lighting	OS15 (continued) D4 - Walking and cycling
	ID169	ID165	ID322
13:25 - 13:40	Margarita ALWALIDI, DE A NOVEL ANNUAL SPECTRAL MATRIX SIMULATION METHOD AND THE EFFECT OF SPECTRAL DISCRETIZATION ON ANNUAL LIGHTING ENERGY DEMAND WITH SWITCHABLE GLAZING	Johannes WENINGER, AT DESIGN CRITERIA FOR USER-CENTRED SHADING SYSTEMS: A VR-BASED STUDY ON USER PREFERENCES	Frithjof HANSEN, DE NEW CONCEPT FOR ROAD LIGHTING TO IMPROVE THE VISIBILITY OF CYCLISTS IN SHARED ROAD SPACE
	ID194	ID170	ID392
13:40 - 13:55	Cláudia AMORIM, BR ELECTROCHROMIC GLAZING: NON-VISUAL EFFECTS IN HIGHLY GLAZED NON-RESIDENTIAL BUILDINGS IN BRAZIL	Bramantyo NAPITUPULU, JP INFLUENCE OF LEVEL OF DETAILS OF 3D OBJECTS ON REALISM IN VR ENVIRONMENTS	Mathieu IODICE, FR LIGHTING LEVELS ON A TRAM PLATFORM: AN EXPLORATORY STUDY
13:55 - 14:20	Discussion	Discussion	Discussion
14:20 - 14:50	AFTERNOON COFFEE BREAK		
	Hall D	Hall K1	Hall K2
	Oral Presentations		
14:50 - 16:30	OS16 D3/D6 - Lighting and circadian rhythm Chair: Yandan LIN, CN	OS17 D2/D4 - Road surface reflectance Chair: Nigel PARRY, UK	OS18 D1/D2/D3/D4 - TLM and energy efficiency Chair: Shining MA, CN
	ID111	ID220	ID249
14:50 - 15:05	David BAEZA, ES CIRCADIAN RHYTHMS OF THE RETINA AND THE SKIN	Sébastien LIANDRAT, FR EFFECT OF R-TABLE MEASUREMENT DISPERSION ON ROAD LIGHTING QUALITY CRITERIA	Jan HERGESEL, CZ COHERENCE OF FLICKER VISIBILITY AND PERCEPTIBILITY THRESHOLD DEFINITIONS BY CIE AND IEC
	ID368	ID135	ID295
15:05 - 15:20	Sawa SATO, JP STUDY ON SPATIAL IMPRESSION AND OBJECT VISIBILITY BY AGE OF MELANOPIE EQUIVALENT DAYLIGHT ILLUMINANCE CONTROL LIGHTING	Enoch SAINT-JACQUES, FR MEASURING THE REFLECTION PROPERTIES OF WET ROAD SURFACES	Leoš KUKAČKA, CZ INTERPRETATION OF THE FLICKER SEVERITY METRICS PRODUCED BY THE LIGHT FLICKERMETER
	ID277	ID136	ID377
15:20 - 15:35	Zhenzhen LI, CN EFFECTS OF NIGHTTIME DISPLAY COLOR TEMPERATURE AND CIRCADIAN STIMULUS ON CIRCADIAN RHYTHMS AND VISUAL FATIGUE	Thomas FAURE, FR A ROAD REFLECTANCE ANALYTICAL FUNCTION BUILT FROM BRDF MODELS	Yoshihiro OHNO, US RESULTS OF IEA 4E SSL ANNEX INTERLABORATORY COMPARISON ON TEMPORAL LIGHT MODULATION MEASUREMENT
	ID380	ID185	ID245
15:35 - 15:50	Katja REBEC, SI CIRCADIAN RHYTHMS AND LIGHT EXPOSURE: INSIGHTS FROM WEARABLE SENSORS	Hadia MRAD, FR MODELLING CHANGES OVER TIME IN THE REFLECTIVE PROPERTIES OF DIFFERENT TYPES OF ROAD SURFACES	Péter SCHWARCZ, HU WILL INCREASING EFFICACY IN LIGHTING TECHNOLOGY DELIVER LOWER ELECTRICITY CONSUMPTION?
	ID164	ID195	ID157
15:50 - 16:05	Yingying HUANG, CN QUANTIFYING THE IMPACT OF DYNAMIC NIGHT-SHIFT DISPLAY LIGHT ON MELATONIN SECRETION	Christoph SCHULZE, DE INVESTIGATING THE ACCURACY OF ROAD SURFACE REFLECTION CHARACTERISATION BASED ON ROUND-ROBIN MEASUREMENTS	Sascha HAMMES, AT THE IMPACT OF SEASONAL OCCUPANCY PATTERNS ON ENERGY-RELATED LIGHTING OBJECTIVES
16:05 - 16:30	Discussion	Discussion	Discussion
	Hall D		
16:30 - 16:45	Closing Chair: Jennifer Veitch, CIE President, CA Best Paper, Best Student Paper & Best Poster Award Ceremony by CIE Vice-Presidents Technical and Education Farewell to CIE Past President & introduction of CIE President-Elect Invitation to CIE 2027		
	Place: Racketworld, Kenderstraße 47		
19:30 - 21:30	Second CIE Badminton Tournament (by registration)		

Foyer K			
Poster Session 1: Monday, July 7, 16:20 - 17:50			
<i>NOTE: Sorted alphabetically by presenter first name; Presented Posters are listed at first, followed by Posters.</i>			
Posters that are also presented as short oral presentations in Sessions PS1-PS3			
ID138	András POPPE	Hungary	LIFETIME MULTI-DOMAIN MODELING OF MID-POWER LEDs
ID348	Asuka MOMIYAMA	Japan	DEVELOPMENT OF PHOTON FLOW THROUGH PRACTITIONER DIALOGUES – DESIGNING EXHIBITION SPACES ENVELOPED IN DIFFUSE LIGHT
ID333	Beatrice YUEN	Switzerland	ABILITY OF COMMON GLARE INDICES TO EVALUATE DISCOMFORTGLARE IN THE PRESENCE OF MULTIPLE ELECTRIC LIGHT SOURCES
ID210	Chikako YABE	Japan	STUDY ON CALCULATING LUMINANCE DISTRIBUTIONS BY INCORPORATING THE ESTIMATED MODELS OF DIRECTIONAL REFLECTANCE CHARACTERISTICS FROM SIMPLIFIED MEASUREMENTS INTO RADIANCE
ID269	Cláudia AMORIM	Brazil	DAYLIGHT REQUIREMENTS AND METRICS IN PRATICE: A CLIMATIC ANALYSIS OF CURRENT CRITERIA
ID357	Constantinos BOUROUSSIS	Switzerland	OUTDOOR INTERCOMPARISON OF HDR IMAGING LUMINANCE MEASUREMENT SYSTEMS USING A HIGH CONTRAST LUMINANCE SCENE
ID206	Diana SOTO	Mexico	ASSESSING VISUAL ATTENTIVENESS IN RETAIL ENVIRONMENTS USING A HUMAN SUBJECT-BASED TESTING PROTOCOL BASED ON JUST NOTICEABLE DIFFERENCES
ID197	Elif HARPULUOĞLU	Turkiye	DAYLIGHT PERFORMANCE OF PERFORATED SOLAR SCREEN FACADES IN OFFICES: A CASE STUDY
ID190	Erkki IKONEN	Finland	ACCOUNTING FOR SPECTRAL CORRELATIONS IN UNCERTAINTY ANALYSIS OF SPECTRAL INTEGRALS
ID137	Gusztáv HANTOS	Hungary	RESULTS OF THE JOINT LED AGING EXPERIMENT OF THREE UNIVERSITY LABORATORIES WITHIN THE AI-TWILIGHT PROJECT
ID323	Hiroyuki MIYAKE	Japan	FURTHER DEVELOPMENT OF THE CALCULATION MODEL FOR SPACIOUSNESS TO INCLUDE THE EFFECTS OF WINDOWS AND EXTERNAL SPACE
ID362	Kazuto TAKASE	Japan	STUDY ON SPATIAL BRIGHTNESS EVALUATION USING OLED LIGHTING
ID123	Kenji GODO	Japan	POTENTIAL OF LED-BASED STANDARD SOURCE PROVIDING CIE STANDARD ILLUMINANT A
ID319	Lou GEVAUX	France	EFFECTS OF CAMERA APERTURE ON STRAY LIGHT IN HIGH DYNAMIC RANGE LUMINANCE IMAGING
ID341	Máté SZABÓ	Hungary	HETEROCHROMATIC BRIGHTNESS MATCHING AND RED-GREEN COLOUR VISION DEFICIENCY RECOGNIZING WITH A SOFTWARE BASED ON APPARENT MOVEMENT
ID338	Muhammed TOKUŞLU	Turkiye	ENERGY-EFFICIENT LIGHTING DESIGN FOR HAGIA EIRENE: TAILORED SOLUTIONS FOR WORSHIP, CONCERT AND MUSEUM SETTINGS
ID177	Roland BRÉMOND	France	THE VISIBILITY OF TARGETS: DISCS VS GRATINGS
ID383	Semin OH	Germany	COLOUR ASSIMILATION EFFECTS ON FACES IN FOVEAL AND PERIPHERAL VISION USING CURVED DISPLAY SYSTEM
ID394	Simone BONAVIA	United Kingdom	THE EFFECT OF LIGHT DIRECTION ON PUPILLARY LIGHT REFLEX: A PILOT STUDY
ID390	Sneha JAIN	United States of America	APPLICABILITY OF CIE SUPPLEMENTARY PHOTOMETRY FOR GLARE PREDICTION UNDER COLORED DAYLIT SCENES
ID158	Weiqiang ZHAO	China	LED PHOTOMETRIC MEASUREMENT BASED ON LED STANDARD LAMPS
ID343	Yasaman REZAZADEH	Finland	UNCERTAINTY EVALUATION OF COLOUR MEASUREMENTS
ID242	Yuri NAKAZAWA	Japan	WAVELENGTH CALIBRATION WITH A TUNABLE MONOCHROMATIC SOURCE BASED ON A SUPERCONTINUUM SOURCE
All posters introduced by presenters during Poster Session 1			
ID276	Agathe PHAREL	Belgium	LIMITING THE IMPACT OF LIGHTING AT NIGHT ON BIODIVERSITY: A MULTI-EXPERTISE METHODOLOGY FOR ADAPTING LIGHTING TO LOCAL CHALLENGES
ID328	Ágnes URBIN	Hungary	A SHIFT TOWARDS WHITE – OBSERVING CHROMATIC ADAPTATION VIA ACHROMATIC SETTING
ID229	Alejandro FERRERO	Spain	CHARACTERIZATION OF HIGH-DYNAMIC-RANGE IMAGING MEASUREMENT SYSTEMS BY USING A HIGH CONTRAST LUMINANCE REFERENCE SOURCE
ID168	Ana YEBRA	Spain	TOWARD AN UNIFIED PROPOSAL FOR THE COLOURS OF THE FLAGS OF THE TWENTY-SEVEN MEMBER STATES OF THE EUROPEAN UNION
ID388	Anders THORSETH	Denmark	VARIABILITY OF SPECTRAL DISTRIBUTIONS OF LED
ID360	Andrzej RYBCZYŃSKI	Poland	IMPROVED UNCERTAINTY ESTIMATION PROCEDURE FOR SPECTRAL MEASUREMENTS USING THE COMBINED MONTE CARLO METHOD AND BOOTSTRAP
ID340	Annika JÄGERBRAND	Sweden	ANALYSIS OF ENVIRONMENTAL LIGHTING ZONES AND THEIR EFFECTIVENESS FOR PROTECTED AREA CONSERVATION IN SWEDEN
ID127	Anthony BERGEN	Australia	LOW-COST OPTION FOR ADAPTING CURRENT PHOTOMETERS TO A NEW SPECTRAL LUMINOUS EFFICIENCY FUNCTION
ID227	Astrid LASSALLE	France	EFFECTIVENESS OF LIGHT IN ENHANCING WORKING MEMORY THROUGH MELANOPsin STIMULATION VARIES WITH AGING
ID129	Balázs KRÁNICZ	Hungary	CHROMATICITY POINTS OF REAL SPECTRA OUTSIDE THE CIE CHROMATICITY DIAGRAM
ID393	Banu MANAV	Turkiye	A RESEARCH ON WORK PRODUCTIVITY AND VISUAL ATTENTION UNDER HUMAN CENTRIC LIGHTING SYSTEM
ID125	Beatriz MATESANZ	Spain	EXPLORING THE IMPACT OF CORRELATED COLOUR TEMPERATURE OF LED GLARE ON PUPILLARY DYNAMICS
ID144	Benjamin LEGRAND	France	INVESTIGATING FACIAL EMOTION RECOGNITION: TWO FIELD EXPERIMENTS

Foyer K			
Poster Session 2: Tuesday, July 8, 16:10 - 17:40			
<i>NOTE: Sorted alphabetically by presenter first name; Presented Posters are listed at first, followed by all Posters.</i>			
Posters that are also presented as short oral presentations in Sessions PS1-PS3			
ID359	Erkki IKONEN	Finland	RELATION OF CONE FUNDAMENTALS TO UNITS, QUANTITIES AND SYMBOLS
ID325	Lou GEVAUX	France	HIGH DYNAMIC RANGE IMAGING METHODS FOR TRACEABLE OPTICAL
All posters introduced by presenters during Poster Session 2			
ID142	Alejandro FERRERO	Spain	CHARACTERIZATION OF PHOTORESPONSE NON-UNIFORMITY AND NON-LINEARITY OF MULTISPECTRAL CAMERAS FOR RADIANCE AND LUMINANCE MEASUREMENTS
ID224	Alejandro FERRERO	Spain	CHARACTERIZATION OF THE NONLINEARITY OF ARRAY SPECTRORADIOMETERS FOR IRRADIANCE MEASUREMENTS
ID243	Anthony BERGEN	Australia	USE OF STELLATED APERTURES TO MINIMISE INTERNAL FORWARD REFLECTIONS IN STRAY LIGHT BAFFLES
ID293	Christophe	France	SPECIFYING LUMINAIRE CUTOFF IN LIGHT POLLUTION REGULATIONS
ID324	Dandan HOU	China	UNSUPERVISED END-TO-END FEED-FORWARD NEURAL NETWORK FOR COLOUR DISCREPANCY ADJUSTMENT IN DISPLAY CAMERA COMMUNICATION SYSTEMS
ID208	Francisca LEONARD	Australia	A PRELIMINARY FIELD-TEST OF LIGHTING WITHIN A GERIATRIC AND REHABILITATION UNIT: INFORMING A LARGER STUDY ON SLEEP QUALITY
ID389	Johannes LEDIG	Germany	LUMINOUS AND SPECTRAL RESPONSIVITY OF PHOTOMETERS FOR MEASUREMENTS OF HIGH ILLUMINANCE LEVELS
ID350	Katja REBEC	Slovenia	INTERDISCIPLINARY INSIGHTS: OPTIMIZING LIGHTING FOR HORMONAL HEALTH IN INDOOR ENVIRONMENTS
ID215	Kazuyuki MARUYAMA	Japan	ROAD SURFACE LUMINANCE OF THE TUNNEL INTERIOR LIGHTING WITH SOOT AND SMOKE EXHAUSTED FROM VEHICLES
ID155	Khorshid MEIHAMI	United Kingdom	THE TRANSMISSION OF NEAR-INFRARED ELECTROMAGNETIC RADIATION THROUGH DIFFERENT FABRIC TYPES
ID347	Liangzhuang WEI	China	QUANTITATIVE STUDY ON SKIN WHITENESS PREFERENCE OF CHINESE YOUNG WOMEN
ID212	Liliana BELTRAN	United States of America	ASSESSING MELANOPIC ILLUMINANCE IN HOMES: FROM DESIGN TO CONSTRUCTION
ID147	Luke PRICE	United Kingdom	THE PERFORMANCE OF COLOUR FIDELITY METRICS UNDER SPECTRAL PERTURBATIONS
ID300	Lysandre HILLAIRAUD	France	COLOUR-BASED GRANULOMETRIC ANALYSIS WITH PATTERN SPECTRUM
ID131	Maciej LISTOWSKI	Poland	RETHINKING PHOTOMETER CALIBRATION STANDARDS: ALTERNATIVE SPECTRAL DISTRIBUTIONS SHAPED BY LED TECHNOLOGY
ID148	Marguerite MIALLIER	France	AUTOMATED LIGHT QUALITY MEASUREMENT IN CORRIDORS
ID283	Maria TENGELIN	Sweden	ESTIMATING GLARE IN DYNAMIC TRAFFIC SITUATIONS
ID281	Marie DUBAIL	France	EFFECT OF METAMERIC WHITE LIGHTS ON VISUAL PERFORMANCE
ID395	Masafumi JINNO	Japan	EVALUATION OF THE VISIBILITY OF A FALLEN OBJECT IN A FULL-SCALE TUNNEL WHEN A SUBJECT IS A PASSENGER IN A MOVING VEHICLE AND VERIFICATION OF THE EFFECTIVENESS OF INDIRECT EVALUATION BY USING AN HMD
ID251	Masayuki OSUMI	Japan	SPECTROSCOPIC MEASUREMENT OF FLUORESCENT PIGMENTS FOR PENETRANT TESTING
ID152	Matthew GLANVILLE	Australia	MODELLING SOLAR DISABILITY GLARE REFLECTED FROM MODERN BUILDING FACADES
ID381	Matthieu IODICE	France	REVIEW OF LIGHTING STRATEGIES TO REDUCE LIGHT POLLUTION
ID226	Mengyuan HAO	China	VISUAL PREFERENCE EVALUATION FOR LUMINA NIGHT WALK APPLICATION OF LIGHTING PROJECTION IN VEGETATED ENVIRONMENT: A PLEASURE-AROUSAL-DOMINANCE (PAD) MODEL PERSPECTIVE
ID244	Michal VIK	Czech Republic	THRESHOLD LUMINANCE DIFFERENCE MODEL FOR PEDESTRIAN CONSPICUITY IN A COMPLEX SCENE AND DIFFERENT LIGHTING CONDITIONS
ID121	Midori TANAKA	Japan	EXPERIMENTAL INVESTIGATION OF IMAGE REPRODUCTION WITH PERCEPTUAL GLOSS EQUIVALENT TO REAL GLASS, METAL, AND STONE
ID303	Mika KATO	Japan	INVESTIGATION OF THE BALANCE BETWEEN WORK SURFACE ILLUMINANCE AND SPATIAL AVERAGE LUMINANCE IN DESK WORKSPACES: A COMPARISON OF YOUNGER AND OLDER ADULTS
ID221	Miki KOZAKI	Japan	RESEARCH ON IMPRESSION-SHIFT DUE TO THE INFLUENCE OF ADJACENT LIGHTING ENVIRONMENT: IMPRESSION EVALUATION EXPERIMENT CONDUCTED AT A SHOPPING MALL
ID237	Misaki SAITO	Japan	A SIMPLIFIED METHOD FOR CALCULATING DAYLIGHT ILLUMINANCE CONSIDERING EXTERNAL SHADING AND INTERIOR BLINDS
ID217	Mitsuhiro AOYAGI	Japan	EXAMINATION OF THE ERROR DUE TO THE POSITION OF THE BAFFLE ON THE INTEGRATING SPHERE PHOTOMETER
ID246	Moe IGARASHI	Japan	APPLICABILITY OF THE CALCULATION MODEL FOR SPACIOUSNESS IN RESIDENTIAL SPACES WITH WINDOWS
ID262	Naoko SHINOHARA	Japan	EFFECTS OF DUV ON THE RELATIONSHIP BETWEEN PREFERRED ILLUMINANCE AND CORRELATED COLOUR TEMPERATURE
ID344	Naomi MILLER	United States of America	A MULTI-METRIC SYSTEM FOR LIMITING TEMPORAL LIGHT MODULATION

ID289	Naoya HARA	Japan	SUBJECT EXPERIMENTS CONTRIBUTING TO THE DEVELOPMENT OF DISCOMFORT GLARE EVALUATION METHOD FROM LARGE-AREA HIGH LUMINANCE SURFACE BASED ON VISUAL CHARACTERISTICS
ID387	Natalia VASQUEZ	Denmark	A COLLABORATIVE APPROACH TO INTEGRATING SUBJECTIVE ASSESSMENTS AND SIMULATION DAYLIGHTING LEARNING
ID363	Nico SILVA	Belgium	A CRITICAL ASSESSMENT OF ROAD LIGHTING PRACTICES IN RELATION TO OBTRUSIVE LIGHT
ID258	Niima OSAKI	Japan	LIGHTING COLOUR CONDITIONS THAT MAKE DISH LOOK DELICIOUS
ID400	Noël RICHARD	France	BIDIMENSIONAL SPECTRAL DIFFERENCE MEASUREMENT FOR SCENE COMPLEXITY ASSESSMENT
ID326	Nonoka MURAMATSU	Japan	PREDICTING VEILING REFLECTIONS IN THE VIEWING OF MUSEUM EXHIBITS BY OLDER ADULTS
ID280	Nuria CASTILLA	Spain	A COMPARATIVE STUDY OF SUBJECTIVE PERCEPTIONS OF LIGHTING AND PHYSIOLOGICAL RESULTS IN REAL AND VIRTUAL ENVIRONMENTS
ID178	Pablo IXTAINA	Argentine Republic	THE ROLE OF ROAD SURFACE IN ROAD LIGHTING QUALITY AND EFFICIENCY. A CURRENT CASE IN AN ARGENTINIAN MOTORWAY
ID327	Petr KLIMENT	Czech Republic	DEVELOPMENT OF A HIGH CONTRAST LUMINANCE REFERENCE SOURCE FOR CHARACTERIZATION OF HIGH-DYNAMIC-RANGE IMAGING MEASUREMENT SYSTEMS
ID116	Rengin ASLANOĞLU	Poland	LIGHTING, SAFETY, AND BIODIVERSITY: A MIXED-METHODS STUDY OF PARK USAGE IN URBAN SETTINGS
ID306	Rikuto KASHIWAGUMA	Japan	AN INTEGRATED ASSESSMENT METHOD FOR VIEWS, DAYLIGHTING, AND GLARE IN OFFICE BUILDINGS WITH WINDOWS
ID239	Ro MOTOYAMA	Japan	RADIANCE AND BEST INTEGRATION FOR THERMAL ENVIRONMENT EVALUATION OF SPACES WITH COMPLEX EXTERNAL SHADING
ID361	Robert SUPRONOWICZ	Poland	AGE-INCLUSIVE LIGHTING DESIGN
ID287	Rongdi SHAO	China	EFFECTS OF 24-HOUR DYNAMIC LIGHTING ON TIME PERCEPTION IN ENCLOSED SPACES
ID240	Ruoxi YIN	United Kingdom	ASSESSING ATYPICAL COLOUR PERCEPTIONS IN NEURODIVERGENT INDIVIDUALS
ID299	Sayana TSUSHIMA	Japan	THE EFFECTS OF THE INTERIOR SURFACE REFLECTANCE AND COLOUR ON THE RELATIONSHIP BETWEEN MEAN ROOM SURFACE EXITANCE AND SPATIAL BRIGHTNESS
ID232	Scorpio MICHELANGELO	Italy	OPTIMISING BUILDING DESIGN THROUGH WINDOW VIEW ANALYSIS: A CASE STUDY IN GDANSK
ID175	Sietse DE VRIES	The Netherlands	CHARACTERISING INTER-INDIVIDUAL VARIABILITY IN SIMULATED PERSONAL LIGHT EXPOSURE: IMPACT OF BODY MORPHOLOGY ON LIGHT-DOSIMETRY
ID234	Simon BELGERS	The Netherlands	IMPACT OF SHORT DARK ADAPTATION PERIODS ON POST-ILLUMINATION PUPIL RESPONSE
ID371	Siqi HE	China	DIAGNOSING HUMAN-LIGHT INTERACTIONS WITH THE AID OF 360° HDR IMAGING
ID372	Siyuan SONG	China	A PROPOSAL OF STANDARD DEVIATE OBSERVERS BASED ON 100 OBSERVERS
ID396	Sophie JOST	France	COMPARING PSYCHOPHYSICAL RESEARCH METHODS FOR DISCOMFORT FROM GLARE
ID134	Stuart MUCKLEJOHN	France	THE RELIABILITY OF LED DRIVERS - ESTIMATING FAILURE RATES AND TRENDS
ID298	Tomas NOVAK	Czech Republic	LARGE RESIDENTIAL AREA LIGHT POLLUTION MODELLING
ID163	Tong LIU	China	EXPLORING THE LIGHTING ENVIRONMENT OF RESEARCH AND DEVELOPMENT LABORATORIES FOR DRIVING AND RIDING EXPERIENCE IN THE SMART TRANSPORTATION ERA
ID284	Udo KRÜGER	Germany	INTRA-LENS-SPECTROMETER FOR A NEAR-EYE DISPLAY MEASUREMENT APPLICATION
ID122	Ujjayanta BHAUMIK	Belgium	THE HELMHOLTZ-KOHLRAUSCH EFFECT ON VIRTUAL REALITY HEAD MOUNTED DISPLAYS
ID337	Ute BESENECKER	Sweden	PEDESTRIAN LIGHTING IN URBAN FORESTS - A MULTIDISCIPLINARY PERSPECTIVE
ID282	Victoria RYBINA	Russian Federation	PHYSIOLOGICALLY-RELEVANT COLORIMETRIC SYSTEM (LMS) _{PHYS} AND COLOUR DIFFERENCE
ID219	Vineetha KALAVALLY	Malaysia	PRELIMINARY ANALYSIS: UTILIZATION OF LIGHT QUANTIFICATION METRICS IN CLASSIFYING SLEEP-WAKE TIMINGS
ID345	Xiangwei YI	China	CAR BODY LIGHTING: MASTERING THE BALANCE BETWEEN RECOGNITION AND DISTRACTION
ID294	Xiangzhen KONG	The Netherlands	AN EXPERIMENTAL INVESTIGATION ON DEVELOPING A VISIBILITY MEASURE FOR THE PHANTOM ARRAY EFFECT FOR GENERAL LIGHTING APPLICATIONS
ID233	Yanni WANG	China	IMPACT OF ANTARCTIC OVERWINTERING ON RHYTHMS, SLEEP, AND MOOD OF CHINESE EXPEDITION MEMBERS AT ZHONGSHAN STATION
ID274	Yanwei JIN	China	WEARABLE DEVICE FOR PERSONAL LIGHT MONITORING: ASSESSING VISUAL AND NON-VISUAL RESPONSES WITH SPECTRALLY-RESOLVED SENSOR
ID184	Yifei LI	China	A WORKFLOW FOR CONVERTING 2D IMAGES TO REALISTIC NAKED-EYE 3D VISUALIZATIONS USING COMFYUI
ID110	Yonghong YAN	China	SHARING POWER BANK—NEW NETWORK FOR BUILDING EVACUATION LIGHTING IN THE MOBILE ERA
ID399	Yoshihisa IKEDA	Japan	LUMINANCE CONTRAST DISCRIMINATION THRESHOLDS FOR OBJECT AND BACKGROUND SURFACES IN SILHOUETTE AND REVERSE SILHOUETTE VIEWS
ID265	Yuki OE	Japan	TOWARDS RESILIENT LIGHTING DESIGN FOR DISASTER REFUGES PART 1: SUBJECTIVE EXPERIMENTS IN A JAPANESE CLASSROOM
ID271	Zhifeng WU	China	LINEARITY CALIBRATION OF ARRAY SPECTRORADIOMETER FOR MEASURING SPECTRAL RADIANCE

7 Structure of the CIE 2025 Conference Proceedings volume

Part 2 – Abstracts of Curated Keynotes and Workshops

This section presents the abstracts of the invited keynote lectures and workshops that were curated and selected by the ISPC.

Part 3 – Full-Length Scientific Papers

This section contains the Full-Length Scientific Papers developed from the peer-reviewed Short Papers. Authors first submitted a Short Paper in the initial submission phase, received peer-review feedback, and then had the opportunity to submit a revised Full-Length Paper during the second submission phase.

Part 4 – Short Paper Contributions

This section includes the revised Short Papers, resubmitted by authors in the second submission phase after receiving peer-review feedback during the first submission phase.

Part 5 – Abstracts of Papers with Publication Opt-Out

Authors had the option to select a publication opt-out: their contributions underwent peer review, but the papers themselves were not published, only the abstracts are included here.