

TC2-23 Photometry of Street-Lighting Luminaires.

Chair: G. Vandermeersch (Belgium) **AD:** Vandermeersch

ML: The memberlist was updated in San Diego meeting, underlined names were members attending San Diego meeting of TC2.23 on the 30th of June :

<u>Guy Vandermeersch</u> - TC chairman CNBE BELGIUM	<u>Mrs Arlette Blochouse</u> - TC secretary Schreder - RTech Photometric laboratory BELGIUM
<u>Lou Bedocs</u> Thorn Lighting Ltd. UNITED KINGDOM	Prof. Antonio Corrons Instituto de Fisica Aplicada MADRID SPAIN
<u>Dr. Ian Lewin</u> Lighting Sciences Inc. USA	<u>Carl K. Andersen</u> Federal Highway Administration USA
<u>Dr. Reiner Rattunde</u> LMT Lichtmesstechnik GMBH GERMANY	Paul Nederpel (to be confirmed) Philips Lighting – Photometric laboratory THE NETHERLANDS
Mrs Agnes Por Thorn – Photometric laboratory FRANCE	<u>Prof. Allan Ottosson</u> SWEDEN
<u>Dr. Giuseppe ROSSI</u> IEN – Photometric Laboratory ITALY	Christine Stratford Head of Section- BSI LightingTechnology UNITED KINGDOM
<u>David R. Gibs</u> Optical radiation measurement group NPL UNITED KINGDOM	Japanese member (?) Designation awaited : contact person <u>Dr Koichi IKEDA</u> - Tokyo University JAPAN
<u>Etienne Pierson</u> Laborelec Photometric laboratory Belgium	

TR: Prepare a technical report on the photometry of street lighting luminaires

ST: Report given by the TCC.

The intention is to prepare a Complementary Part to CIE publication

121-1996 “Photometry and goniophotometry of luminaires“ which will be numbered

CIE 121-Complementary Part 2.

It will cover

photometric data to be measured (as provided by CIE 140)

photometric methods

uncertainties and tolerances.

It will definitively replace the old publication CIE 27.

In this addendum we will try to fix the specific problems for the photometry of this kind of luminaire as to guarantee correct results and correct application in lighting calculations.

A majority of TC members could attend San Diego TC meeting the 30th of June. Following items were identified to progress the work:

- transformation of photometric intensity tables measured according old CIE 30-2
- minimum measurement steps to guarantee accuracy
- clear conventions to fix the mechanical axes of the luminaire against the coordinate system
- to solve contradictions between CIE 140 and CIE 121 regarding the first axis of a luminaire (linked to the luminaire in CIE121 while vertical in CIE140 - even if CIE 140 mention the definition is taken over from CIE 121)
- measurement of critical intensities for TI calculations (angles above 70°)
- measurements of critical intensities and upward flux for glare classification.
- specific problems linked to the technology of new light source lamps (correct positioning, warm-up time, stabilisation, etc).

Dr Ian Lewin provided information on the existing IESNA code on this matter.

TC chairman and secretary will prepare a first tentative draft for the end of the year.

At the Division 2 meeting, TC 2.23 received a complementary mandate as to prepare an update of chapter 5 of Publication CIE 121 (1996) : Preparation lamps, ballasts and luminaires for tests. It will deal with the last item identified in TC2.23 meeting, in particular it will deal with TL5 lamps;

TC2-52 Addendum to CIE 121 for the Photometry of Emergency Lighting Luminaires

Chair: G. Vandermeersch (Belgium) **AD:** Vandermeersch

ML:

Name	Country
Vandermeersch Guy (Chairman)	Belgium
Prof. Antonio Corrons	Spain
Dr. Reiner Rattunde	Germany
Prof. Bruno Weiss	Germany
Dr. Giuseppe Rossi	Italy
Mr. Lou Bedocs	United Kingdom
David Price until 1/3/2003	United Kingdom
Christine Stratford from 1/1/2003	United Kingdom
Mr John B. Arens – until 1/1/2002	USA
Prof. Allan Ottosson	Sweden

TR: To produce an addendum to CIE publication 121 containing specific requirements for the photometry of emergency lighting luminaires, in particular to provide additional correction factors on the relative output of the luminaires at specified times of operation.

ST: Report given by the TCC.

The TC met in Veszprem the 26th of August 2002, in Berlin the 18th of November 2002 and in San Diego on the 29th of June 2003.

The TC work relates to work in D5, IEC and CEN. There has been good progress in IEC for the evaluation of lighting performance of emergency electronic ballasts by introducing the concept of emergency mode ballastlumen factor. This has been approved by IEC, but the document is still before voting stage. CIE TC 5.19 has also arrived to a final draft on emergency lighting. So not further delay is necessary for achieving TC2.52 work. Within TC 2.52 the draft 2b – June 2003 was examined and approved in San Diego. After consideration of all comments, it was agreed that a final draft 3 – September 2003 would be issued for TC ballot. In parallel the draft will be submitted to the Division 2 editor.

It is hoped that this technical report numbered CIE 121- Complementary part 1 will be submitted for division 2 vote before Division 2 Tokyo-2004 meeting.