



TC-PR highlights for General Assembly

3 June 2015

Jarle Gran,
TC-PR Chair - incoming

Content

- Comparisons
- EU metrology landscape in PR in post-EMRP times
- Strategic planning
- MRA – CMC review
- Pre-normative work of TCPR
- Metrologia highlights

Comparisons



- TC-PR (CCPR) have got a structure of seven Key comparisons defined
 - photometry, radiometers – detectors, radiometry - sources, materials - reflectance, materials – transmittance
 - In 2014 **six** EURAMET KCs completed and published the results in KCDB
 - *One KC scheduled to publish in KCDB in 2015*
 - Monitoring of KC impact to CMC in place , reported to CCPR in September 2014
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Post- EMRP TC-PR Landscape



Six more less stable consortia formed over the range of **five** topics dealing with **fourteen** JRPs

- Quantum optics
 - Single photon sources, metrology for quantum communication,..
 - SI oriented basic research
 - Novel quantum based primary standards
 - Research for Environment/meteorology and EO
 - Terrestrial and space based EO
 - Innovation
 - appearance
 - Energy
 - Photometry for LED/OLED, Photovoltaic
-

Strategic planning



TCPR Strategic planning in the framework of PR1101

- Chaired by TCC
- Five working groups formed lead by convenors:
 - Environment / NPL
 - Energy / PTB
 - Innovation / LNE
 - Fundamental research / INRIM
 - Research for SI support / JV

Continuous update of Road Maps

Considering the relevant future research targets for EMPIR ..

MRA – CMC review



Since 2013 two COOMET CMC batches, one APMP CMC batch and one EURAMET CMC batch went through inter-RMO review

Conclusion:

More than 70 % of CMC items has changed during inter-RMO CMC review..

 Inter – RMO review really influence CMC entries

CIE TC2-71 CIE Standard on test methods for LED Lamps, luminaires and modules

Chair, Yoshi Ohno (US)

developed a **CIE standard**

CIE DIS 025:2014 Test method for LED Lamps, LED luminaires and LED modules

Joint work with

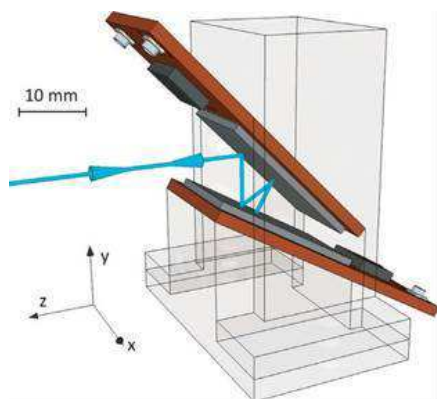
CEN TC169 WG7 Photometry, Chair, Guy Vandermeersch (BE)

developed an equivalent **EN standard** on SSL test method:

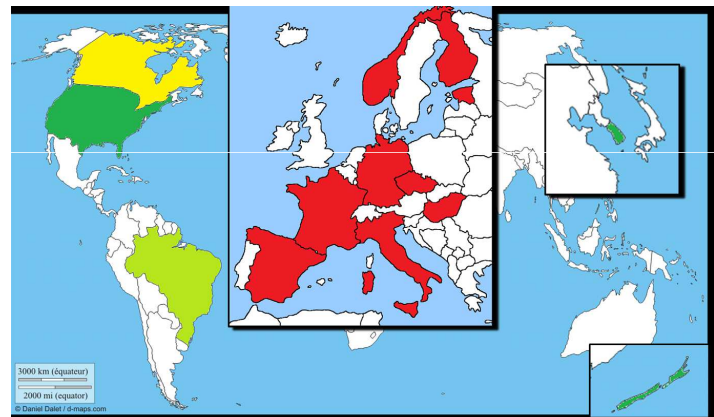
EN 13032 Lighting Applications — Measurement and presentation of photometric data of lamps and luminaires — Part 4: LED lamps, modules and luminaires

CIE DIS 025 is to be CIE S 025, then ISO/CIE/(IEC) joint standard

Predictable quantum efficient detector – Newstar & qu-candela

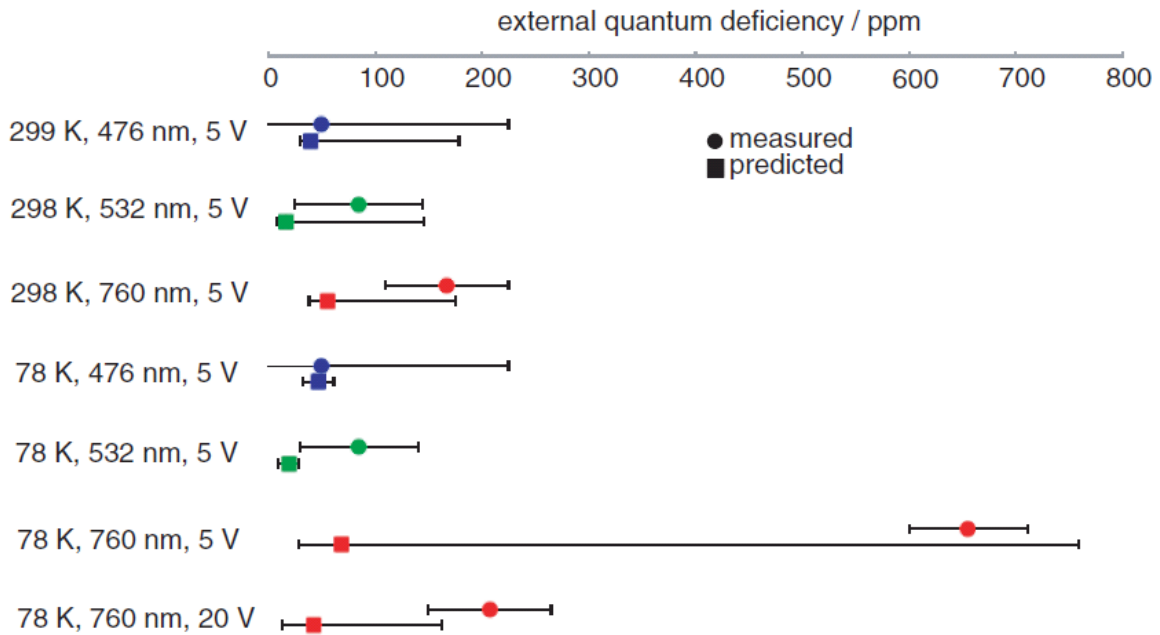


Simplyfied primary standard



Global participation and interest

Results



Metrologia highlights



- We are celebrating [World Metrology day](#) and the [International Year of Light](#) with a collection of great metrology research published in *Metrologia*.
- 6 publications related to TC-PR are highlighted and is a result of EMRP projects



INTERNATIONAL
YEAR OF LIGHT
2015