

Market Surveillance and Compliance Screening The Viso LightSpion and Flicker Meter

FORTALECIMIENTO DE ESTÁNDARES DE EFICIENCIA ENERGÉTICA EN ILUMINACIÓN
Primera Reunión y Taller Presencial del Grupo Técnico de Eficiencia Energética (GTEE)

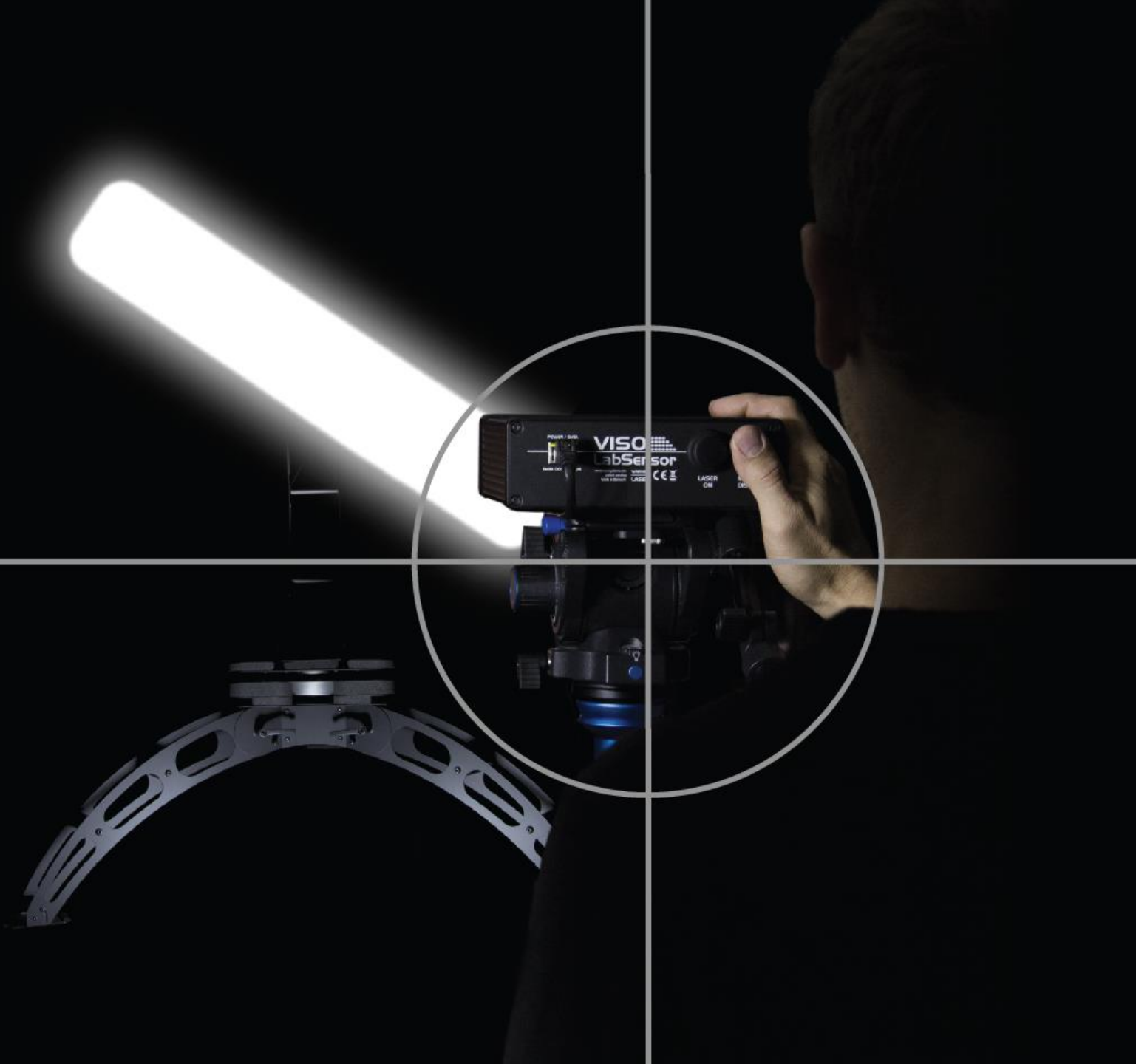
Steve Coyne
6 Nov 2019



Compliance Screening Test

- Portable test lab creates effective first pass checking of product performance
- **DISCLAIMER:** CLASP does not endorse this product, nor do we get any commission on any sales of this equipment. We simply are bringing to the attention of the Technical Committee this tool which could be useful for check-testing at ports and boarder entry-points.

Future of light measurement



A complete range



LightSpion

Light measurement lab in your hand. Inspect and compare products anywhere.
Maximum lamp size: 8 cm
Maximum lamp weight: 1 Kg



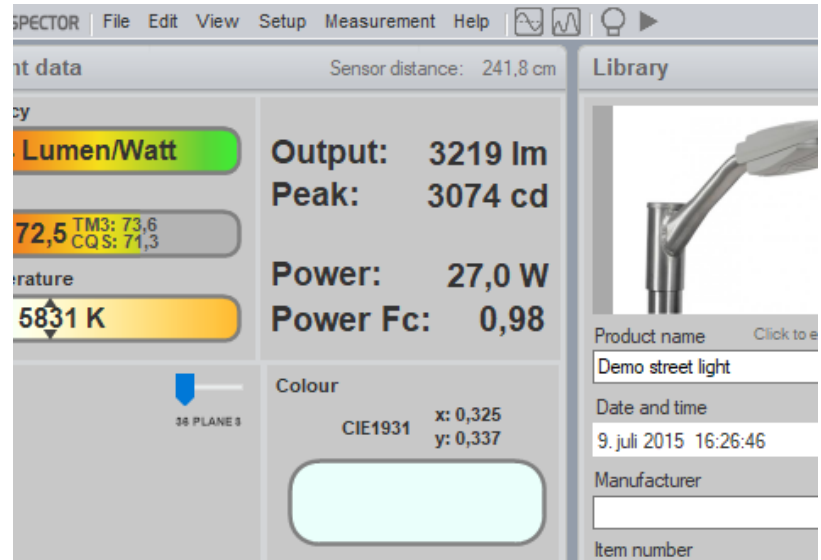
BaseSpion

Measurements of medium fixtures using spectrometer sensor on a fixed rail system.
Maximum lamp size: 54 cm
Maximum lamp weight: 9 Kg



LabSpion

Measurements of large fixtures using spectrometer sensor with built-in laser distance detector.
Maximum lamp size: 150 cm
Maximum lamp weight: 25 Kg



Small size

Extender for LightSpion

Extension for LightSpion increasing measurement distance upto 180 cm.
Maximum lamp size: 22 cm
Maximum lamp weight: 4 Kg

Mid size



Full size

LabFlicker

The LabFlicker allows for quick measurement of lamp flicker values. Connects directly to the Light Inspector software.

Light Inspector software

The Light Inspector software makes the measurement easier than ever before. Fully graphical workflow. Connects to all Viso Products

A complete range



LightSpion

Light measurement lab in your hand. Inspect and compare products anywhere.
Maximum lamp size: 8 cm
Maximum lamp weight: 1 Kg



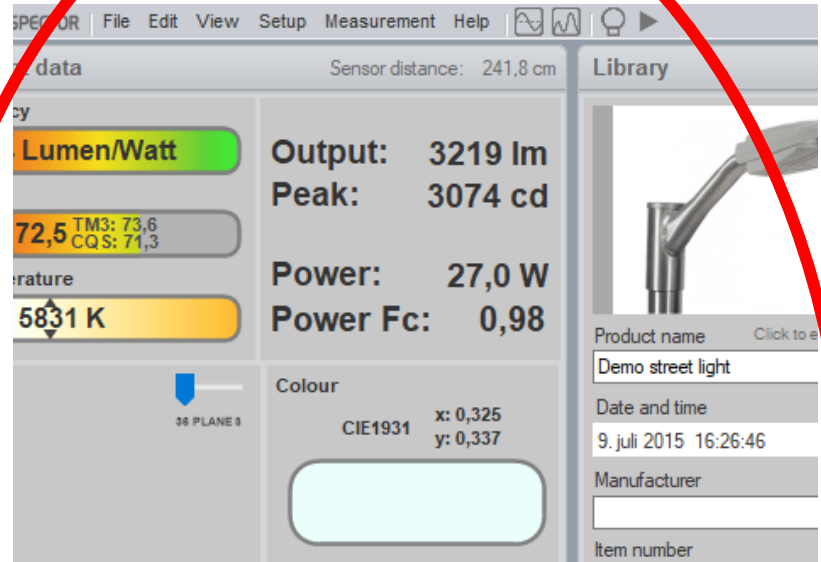
BaseSpion

Measurements of medium fixtures using spectrometer sensor on a fixed rail system.
Maximum lamp size: 54 cm
Maximum lamp weight: 9 Kg



LabSpion

Measurements of large fixtures using spectrometer sensor with built-in laser distance detector.
Maximum lamp size: 150 cm
Maximum lamp weight: 25 Kg



Light Inspector software

The Light Inspector software makes the measurement easier than ever before.
Fully graphical workflow.
Connects to all Viso Products



Small size

Extender for LightSpion

Extension for LightSpion increasing measurement distance upto 180 cm.
Maximum lamp size: 22 cm
Maximum lamp weight: 4 Kg

Mid size



Full size

LabFlicker

The LabFlicker allows for quick measurement of lamp flicker values.
Connects directly to the Light Inspector software.

LightSpion - no competition



Measure

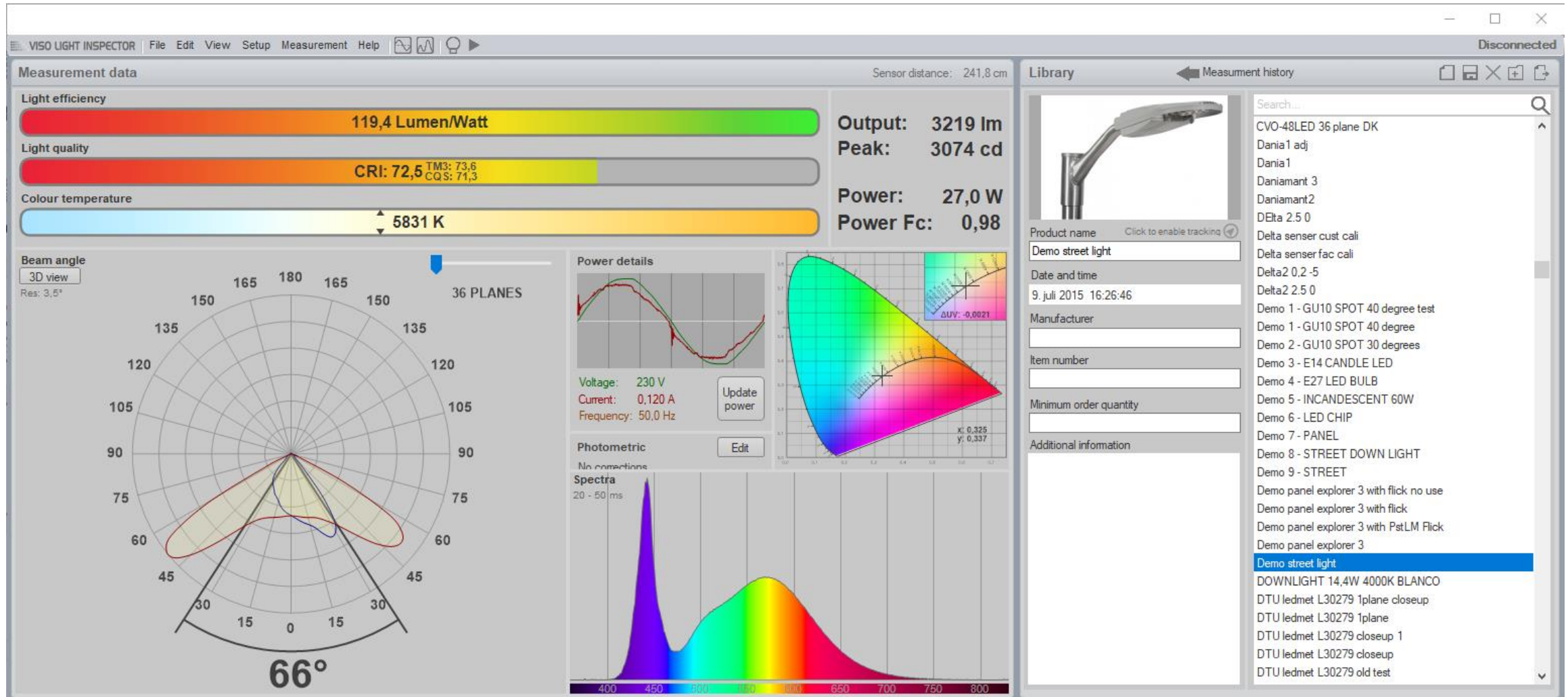
- Lumen
- Peak candela
- Colour temperature
- CRI
- Beam angle
- Angular field distribution
- Power
- Power factor
- Lumen per watt

In 30 seconds

Additional equipment needed for testing

- Laptop to host the LightSpion software
- Low voltage (12V) power supply and digital multi-meter (may connect to LightSpion software)
- Mains voltage uninterruptable power supply (to deal with any local voltage fluctuations at the test site)
- Gloves (lamps maybe hot), sunglasses, marker pens, protractor
- Special socket to support pin based lamps (GX5.3/MR16)
- Dark enclosed space (room with black cloth for walls)

Free software – easy to use



Test Data Export & Compliance Analysis

- Latest software version allows export of all test results to excel file
- This allows for detailed investigation of performance.
- Create a purpose designed data processing spreadsheet (PASS/FAIL compliance)
- Result is only as good as the test practices
 - Uncertainty of measurement

Reporting – simple and versatile

- Fully editable template (MS Word)
- Enter your own logo
- Created from a drag and drop menu
- Include custom charts from excel

Export to PDF

The screenshot displays a reporting interface for VISO SYSTEMS. It features a top navigation bar with the text 'Export to PDF' and a close button. The main content area is divided into two columns. The left column contains a VISO SYSTEMS logo, a color calibration chart, a beam spread diagram with a 66° angle, a spectral power distribution graph, and a beam profile graph. The right column shows a detailed beam profile diagram with a table of data points below it. Below these charts, there are two more VISO SYSTEMS logos, a 3D beam spread diagram, and several bar charts. At the bottom, there is a section for 'Export language' set to 'English', a 'Logo (click to edit)' button with the VISO SYSTEMS logo, a 'Hide efficiency' checkbox, and an 'Export >>' button.

Export language: English

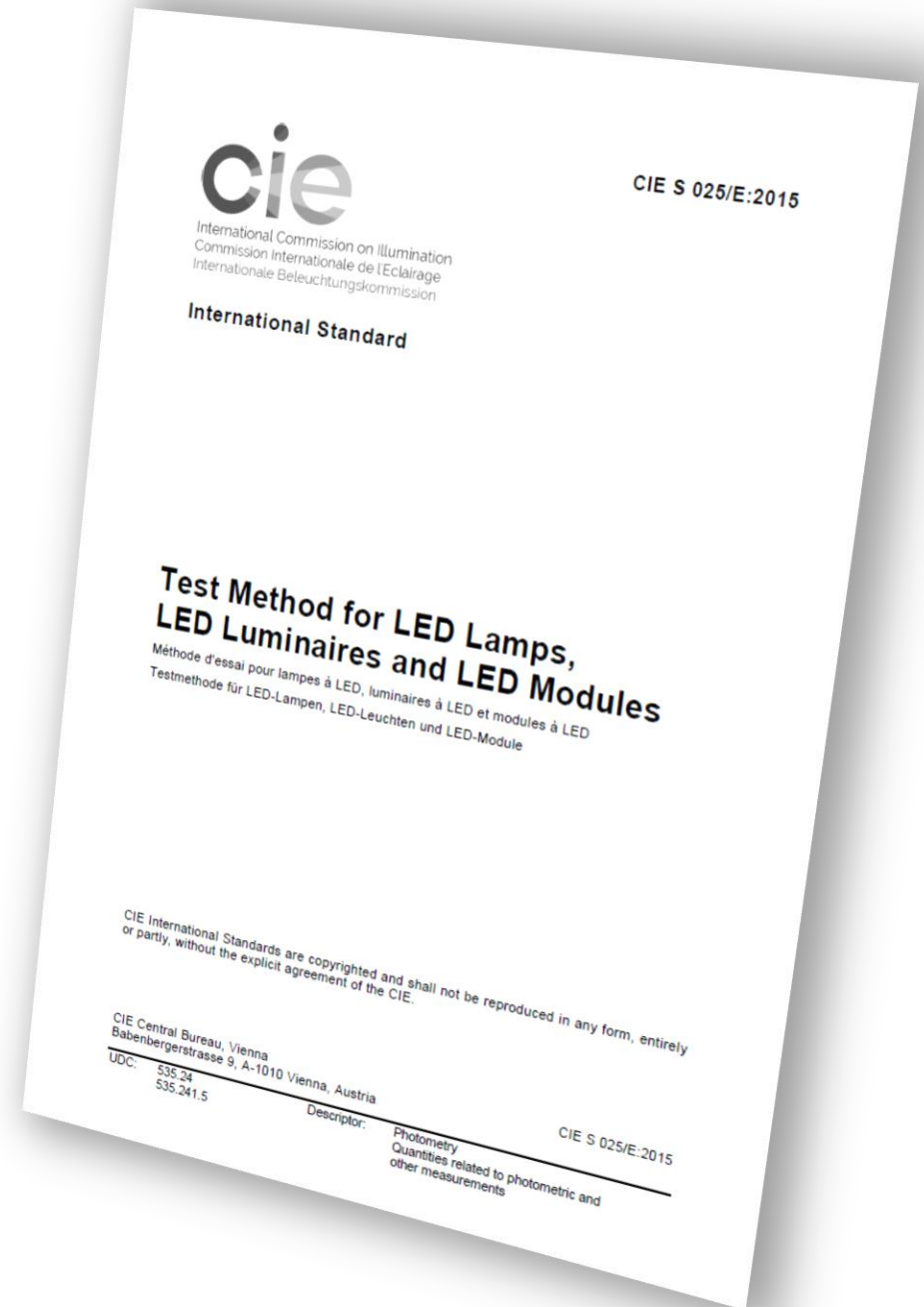
Logo (click to edit)

Hide efficiency

Export >>

Compliance with measurement standards

- All Viso Systems' measurement solutions are CIE S:025 compliant
- CIE S:025 is in Europe called EN13032-4



Viso LightSpion and Flicker Meter Videos

- LightSpion® 3m54s: <https://youtu.be/xOLZegMHAQI>
- LabFlicker 1m58s: <https://youtu.be/V57pTx-pfa0>



Thank you, any questions?

Steve Coyne
Consultant

Director
Light Naturally
T: +61 413 314 346
E: steve@lighthnaturally.com.au

Michael Scholand
Senior Advisor

Policy & Analysis Team
CLASP | Europe
T: +44-7931-701-568
E: mscholand@clasp.ngo