

# INTERNATIONAL STANDARD



Display lighting unit –  
Part 2-2: Measuring methods of LED light bars used in LCD BLUs



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**Display lighting unit –  
Part 2-2: Measuring methods of LED light bars used in LCD BLUs**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## DISPLAY LIGHTING UNIT –

## Part 2-2: Measuring methods of LED light bars used in LCD BLUs

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The text of this International Standard is based on the following documents:

CDV	Report on voting
110/890/CDV	110/932A/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62595 series, published under the general title *Display lighting unit*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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## DISPLAY LIGHTING UNIT –

### Part 2-2: Measuring methods of LED light bars used in LCD BLUs

#### 1 Scope

This document specifies the standard measurement conditions and measuring methods for determining electrical and optical performances of LED light bars with white LEDs used in LCD backlight units.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62595-1-2, *Display lighting unit – Part 1-2: Terminology and letter symbols*

IEC 62595-2-1:2016, *Display lighting unit – Part 2-1: Electro-optical measuring methods of LED backlight unit*

ISO 11664-3, *Colorimetry – Part 3: CIE tristimulus values*

ISO/CIE 11664-5, *Colorimetry – Part 5: CIE 1976 L\*u\*v\* colour space and u', v' uniform chromaticity scale diagram*

#### 3 Terms, definitions, abbreviated terms and letter symbols

##### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62595-1-2 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

##### 3.2 Abbreviated terms

BLU Backlight unit

CC<sub>T</sub> Correlated colour temperature

DUT Device under test

FOV Field of view

FWHM Full width at half maximum

LCD Liquid crystal display

LED Light emitting diode

LMD Light measuring device

MCPCB Metal core printed circuit board