

# INTERNATIONAL STANDARD



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**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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International Standard IEC 62595-2-2 has been prepared by IEC technical committee 110: Electronic display devices.

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

- reconfirmed,
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- replaced by a revised edition, or
- amended.

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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
CCT	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