

INTERNATIONAL STANDARD

**Display lighting unit –
Part 2-3: Electro-optical measuring methods for LED frontlight unit**





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INTERNATIONAL STANDARD

**Display lighting unit –
Part 2-3: Electro-optical measuring methods for LED frontlight unit**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DISPLAY LIGHTING UNIT –

Part 2-3: Electro-optical measuring methods for LED frontlight unit

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International Standard IEC 62595-2-3 has been prepared by IEC technical committee TC 110: Electronic display devices.

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

CDV	Report on voting
110/891/CDV	110/933A/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.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

DISPLAY LIGHTING UNIT –

Part 2-3: Electro-optical measuring methods for LED frontlight unit

1 Scope

This part of IEC 62595 specifies the standard measurement conditions and measuring methods for determining electrical, optical, and electro-optical properties of LED frontlight units (FLUs) for reflective displays.

NOTE: See 3.1.1 for a definition of reflective display.

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 61747-6-2, *Liquid crystal display devices – Part 6-2: Measuring methods for liquid crystal display modules – Reflective type*

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

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

IEC 62679-3-3, *Electronic paper displays – Part 3-3: Optical measuring methods for displays with integrated lighting units*

3 Terms, definitions, abbreviated terms and letter symbols

For the purposes of this document, the terms, definitions, abbreviated terms and letter symbols given in IEC 62595-1-2 and the following 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>

3.1 Terms and definitions

3.1.1

reflective display

display whose function is based on the light reflection of a reflective layer in its structure

EXAMPLE A reflective LCD, an electronic paper display, a micro electro-mechanical system (MEMS) and a micro electro-opto-mechanical system (MEOMS) display device. See IEC 62679-3-3.