

# INTERNATIONAL STANDARD



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



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# INTERNATIONAL STANDARD



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## Display lighting unit – Part 1-2: Terminology and letter symbols

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## DISPLAY LIGHTING UNIT –

## Part 1-2: Terminology and letter symbols

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IEC 62595-1-2 has been prepared by IEC technical committee 110: Electronic displays. It is an International Standard.

This third edition cancels and replaces the second edition published in 2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) new terms are added considering recent advances in display lighting unit (DLU) technology;
- b) some of the terms and definitions are corrected and revised, particularly to be consistent with IEC 60050 policy;
- c) clause structure is updated for categorizing terms correctly;

- d) some of the figures in informative Annex A and their captions are revised for better understanding;
- e) an informative Annex B is added for pictorial definition of the backlight unit structure.
- f) an informative Annex C is added for pictorial definition of the backlight unit varieties and light-guide plate shapes.

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

Draft	Report on voting
110/1698/FDIS	110/1725/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2 and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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 [webstore.iec.ch](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 1-2: Terminology and letter symbols

#### 1 Scope

This part of IEC 62595 gives the preferred terms, their definitions and symbols, for display lighting units such as backlight units of transmissive and transflective displays, and frontlight units of reflective displays, with the objective of using standardized terminology when publications are prepared.

#### 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 60050-845, *International Electrotechnical Vocabulary (IEV) – Part 845: Lighting* (available at [www.electropedia.org](http://www.electropedia.org))

#### 3 Terms and definitions

##### 3.1 General

For the purposes of this document, the terms and definitions given in IEC 60050-845<sup>1</sup> and the following apply.

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

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

##### 3.2 Classification of terms

Terms for display lighting units, such as backlight units and frontlight units are classified as follows:

- a) Fundamental terms (3.3);
- b) Terms related to passive optical components (3.4);
- c) Terms related to spatio-temporally modulated BLUs (3.5);
- d) Terms related to solid-state light sources (3.6);
- e) Terms related to light shaping guide in frontlight unit (3.7);
- f) Terms related to specifications (3.8);
- g) Terms related to backlight dimming (3.9);
- h) Terms related to photoluminescent materials (3.10);

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<sup>1</sup> Identical to CIE 17.4.