

# INTERNATIONAL STANDARD



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



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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

INTERNATIONAL  
ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## DISPLAY LIGHTING UNIT –

## Part 1-2: Terminology and letter symbols

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International Standard IEC 62595-1-2 has been prepared by IEC technical committee 110: Electronic display devices.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) change in the series title in order to handle frontlight units;
- b) new terms are added considering recent advances in display lighting unit (DLU) technology;
- c) some of terms and definitions are corrected and revised, particularly to be consistent with IEC 62595-2;
- d) some of the terms and definitions are corrected and revised, particularly to be consistent with IEC 60050 policy;

- e) clause structure is rectified for categorizing terms correctly;
- f) some of figures in Annex A are added or revised for better understanding.

The text of this standard is based on the following documents:

FDIS	Report on voting
110/720/FDIS	110/734/RVD

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

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

A list of all the parts in the IEC 62595 series, 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 publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication 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 (DLUs) such as backlight units (BLUs) of transmissive and transreflective LCDs, and frontlight units (FLUs) of reflective LCDs and electronic paper (E-paper) displays, with the object of using the same terminology when publications are prepared in different countries.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 – Part 845: Lighting*

#### 3 Terms and definitions

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

##### 3.1 Classification of terms

Terms for display lighting units (DLUs), such as backlight units (BLUs) and frontlight units (FLUs) are classified as follows:

- a) fundamental terms related to display lighting units (3.2);
- b) terms related to passive optical components used in display lighting units (3.3);
- c) terms related to solid-state light sources used in display lighting units (3.4);
- d) terms related particularly to frontlight units (3.5);
- e) terms related to performances and specifications (3.6);
- f) terms related to backlight dimming (3.7).

The following definitions are applied for international standardization of the backlight units.

##### 3.2 Fundamental terms

###### 3.2.1

###### display lighting unit

###### DLU

lighting unit for recognition of the displayed images on a non-emissive electronic display device

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