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BSI Standards Publication

Display lighting unit

Part 1-4: Glass light guide plate

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee EPL/47, Semiconductors.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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DISPLAY LIGHTING UNIT –

Part 1-4: Glass light guide plate

FOREWORD

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IEC TR 62595-1-4, which is a Technical Report, has been prepared by IEC technical committee 110: Electronic displays.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
110/1174/DTR	110/1200/RVDTR

Full information on the voting for the approval of this technical report 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,
- withdrawn,
- replaced by a revised edition, or
- amended.

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DISPLAY LIGHTING UNIT –

Part 1-4: Glass light guide plate

1 Scope

This part of IEC 62595, which is a Technical Report, provides general information for judging the necessity of future standardization of glass light guide plates for display lighting units, which include backlight units for transmissive displays such as LCDs, and frontlight units for reflective displays.

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 62595-1-2:2016, *Display lighting unit – Part 1-2: Terminology and letter symbols*

3 Terms, definitions and abbreviated terms

For the purposes of this document, the following terms and definitions 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
glass light guide plate
GLGP
light guide plate whose optically transparent medium is made of glass material

Note 1 to entry: See IEC 62595-1-2:2016, 3.3.1. A GLGP includes optical elements for light guide plates, such as diffusion patterns, in addition to a glass sheet for light guide plates.

3.2 Abbreviated terms

BLU	backlight unit
CTE	coefficient of thermal expansion
DLU	display lighting unit
FLU	front lighting unit
FPC	flexible printed circuits
GLGP	glass light guide plate
HDR	high dynamic range
LC	liquid crystal