

INTERNATIONAL STANDARD



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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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with integrated lighting units**

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

CDV	Report on voting
110/723/CDV	110/780/RVC

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 parts in the IEC 62679 series, published under the general title *Electronic paper displays*, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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A bilingual version of this publication may be issued at a later date.

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ELECTRONIC PAPER DISPLAYS –

Part 3-3: Optical measuring methods for displays with integrated lighting units

1 Scope

This part of IEC 62679 specifies the standard measurement conditions and measurement methods for determining the optical performance of electronic paper display (EPD) devices which have an operating integrated lighting unit (such as a front light). The scope of this document is restricted to EPDs using segmented or matrix structures with either monochromatic or colour type displays. The measurement methods are intended for EPDs operated in a reflective mode with the integrated lighting unit (ILU) turned on in a dark or indoor ambient lighting environment. Colour systems beyond three primaries are not covered in this document.

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 for 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 62679-1-1, *Electronic paper displays – Part 1-1: Terminology*

IEC 62679-3-1:2014, *Electronic paper displays – Part 3-1: Optical measuring methods*

IEC 61966-2-1, *Multimedia systems and equipment – Colour measurement and management – Part 2-1: Colour management – Default RGB colour space – sRGB*

CIE 15, *Colorimetry*