



**International
Standard**

ISO 22578-2

**Graphical symbols — Safety colours
and safety signs —**

Part 2:
**Measurement of photopic
luminance of phosphorescent
components used in a natural
disaster safety way guidance system**

**First edition
2024-02**

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 145, *Graphical symbols*, Subcommittee SC 2, *Safety identification, signs, shapes, symbols and colours*.

A list of all parts in the ISO 22578 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Graphical symbols — Safety colours and safety signs —

Part 2: Measurement of photopic luminance of phosphorescent components used in a natural disaster safety way guidance system

1 Scope

This document specifies the laboratory test method for the measurement of photopic luminance of phosphorescent materials classified in accordance with ISO 22578.

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.

ISO 16069, *Graphical symbols — Safety signs — Safety way guidance systems (SWGS)*

ISO/CIE 19476, *Characterization of the performance of illuminance meters and luminance meters*

ISO 22578:2022, *Graphical symbols — Safety colours and safety signs — Part 2: Measurement of photopic luminance of phosphorescent components used in a natural disaster safety way guidance system*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1 phosphorescent material

material incorporating phosphors that, if excited by UV or visible radiation, store energy, which is emitted as light over a period of time

Note 1 to entry: A phosphorescent sign is the same as “photoluminescent”, commonly used in the literature of the photoluminescent safety sign industry.

[SOURCE: ISO 16069:2017, 3.15]

4 Test specification

4.1 Test specimens

Three specimens shall be tested. Each test specimen shall have an area of phosphorescent material at least 35 mm in diameter, sufficient for the proper operation of the luminance meter used.