# SS IEC 60598-2-22:2023 IEC 60598-2-22:2021, IDT

(ICS 29.140.40)

# SINGAPORE STANDARD

# Luminaires

Part 2-22 : Particular requirements - Luminaires for emergency lighting





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IEC 60598-2-22:2021, IDT (ICS 29.140.40)

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## Luminaires

- Part 2-22 : Particular requirements - Luminaires for emergency lighting

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### SS IEC 60598-2-22:2023

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This Singapore Standard was prepared by the Working Group on Lighting set up by the Technical Committee on Building Facilities and Services under the purview of the Electrical and Electronic Standards Committee.

This standard is a revision of SS IEC 60598-2-22:2016. It is an identical adoption of IEC 60598-2-22:2021, "Luminaires Part 2-22: Particular requirements – Luminaires for emergency lighting", published by the International Electrotechnical Commission.

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IEC 60598-2-22

Edition 5.0 2021-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

Luminaires -

Part 2-22: Particular requirements – Luminaires for emergency lighting

Luminaires -

Partie 2-22: Exigences particulières – Luminaires pour éclairage de secours





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# IEC 60598-2-22

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Luminaires -

Part 2-22: Particular requirements – Luminaires for emergency lighting

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

## **LUMINAIRES** -

# Part 2-22: Particular requirements – Luminaires for emergency lighting

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IEC 60598-2-22 has been prepared by subcommittee 34D: Luminaires of IEC technical committee 34: Lighting. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2014 and Amendment 1:2017. This edition constitutes a technical revision.

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

- a) update of requirements for rest mode and inhibiting mode;
- b) clarification of high temperature operation tests;
- c) introduction of new requirements for lithium batteries;
- d) introduction of new requirements for electric double layer capacitors (EDLCs);

- e) clarification of resistance to heat, fire and tracking;
- f) clarification of test facilities for self-contained luminaires;
- g) clarification of the test method for contrast measurements of exit signs.

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

| Draft         | Report on voting |
|---------------|------------------|
| 34D/1635/FDIS | 34D/1642/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 <a href="https://www.iec.ch/members\_experts/refdocs">www.iec.ch/members\_experts/refdocs</a>. The main document types developed by IEC are described in greater detail at <a href="https://www.iec.ch/standardsdev/publications">www.iec.ch/standardsdev/publications</a>.

This Part 2-22 is to be used in conjunction with the latest edition of IEC 60598-1 and its amendment(s). It was established on the basis of the ninth edition (2020) of that standard.

NOTE 1 When "Part 1" is mentioned in this document, it refers to IEC 60598-1.

NOTE 2 In this document, the following print type is used:

- compliance statements: in italic type.

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### **LUMINAIRES** -

# Part 2-22: Particular requirements – Luminaires for emergency lighting

## 22.1 Scope

This part of IEC 60598 specifies requirements for emergency luminaires for use with electrical lamps on emergency power supplies not exceeding 1 000 V.

This document does not cover the effects of non-emergency voltage reductions on luminaires incorporating high pressure discharge lamps.

This document gives general requirements for emergency lighting equipment.

In this document, the term "lamp" which also includes "light source(s)" where appropriate, is used.

### 22.2 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 60073, Basic and safety principles for man-machine interface, marking and identification – Coding principles for indicators and actuators

IEC 60155, Glow-starters for fluorescent lamps

IEC 60598-1, Luminaires – Part 1: General requirements and tests

IEC 60896-21, Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test

IEC 61032:1997, Protection of persons and equipment by enclosures - Probes for verification

IEC 61056-1, General purpose lead-acid batteries (valve-regulated types) – Part 1: General requirements, functional characteristics – Methods of test

IEC TR 61341, Method of measurement of centre beam intensity and beam angle(s) of reflector lamps

IEC 61347-2-2, Lamp controlgear – Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps

IEC 61347-2-3:2011, Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps

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IEC 61347-2-7:2011, Lamp controlgear – Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) IEC 61347-2-7:2011/AMD1:2017

IEC 61347-2-7:2011/AMD2:2021

IEC 61347-2-12, Lamp controlgear – Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)

IEC 61347-2-13, Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules

IEC 61951-1, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 1: Nickel-Cadmium

IEC 61951-2, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 2: Nickel-metal hydride

IEC 62034, Automatic test systems for battery powered emergency escape lighting

IEC 62133-2:2017, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems

IEC 62391-1:2015, Fixed electric double-layer capacitors for use in electric and electronic equipment – Part 1: Generic specification

IEC 62391-2:2006, Fixed electric double-layer capacitors for use in electronic equipment – Part 2: Sectional specification – Electric double-layer capacitors for power application

IEC 62620:2014, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications

ISO 3864-4:2011, Graphical symbols – Safety colours and safety signs – Part 4: Colorimetric and photometric properties of safety sign materials

ISO 30061:2007, Emergency lighting

CIE 121 SP1, The Photometry and Goniophotometry of Luminaires – Supplement 1: Luminaires for Emergency Lighting

CIE S025, Test Method for LED Lamps, LED Luminaires and LED Modules