

ICS 29.140



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7000.204-2023

**Luminaires - Part 2-4: Particular requirements - Portable general
purpose luminaires
(English Translation)**

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020

"Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document is Part 2-4 of GB(T) 7000. The following parts of GB(T) 7000 have been published:

- Luminaires -- Part 1: General requirements and tests (GB/T 7000.1-2023);
- Luminaires -- Part 2-1: Particular requirements -- Fixed general purpose luminaires (GB/T 7000.201-2023);

- Luminaires -- Part 2-2: Particular requirements -- Recessed luminaires (GB/T 7000.202-2023);
 - Luminaires -- Part 2-3: Particular requirements -- Luminaires for road and street lighting (GB 7000.203-2013);
 - Luminaires -- Part 2-4: Particular requirements -- Portable general purpose luminaires (GB/T 7000.204-2023);
 - Luminaires -- Part 2-5: Particular requirements -- Floodlights (GB/T 7000.205-2023);
 - Luminaires -- Part 2-6: Particular requirements -- Luminaires with built-in transformers for filaments luminaires (GB 7000.6-2008);
 - Luminaires -- Part 2-8: Particular requirements -- Handlamps (GB/T 7000.208-2023);
 - Safety requirements for photo and film luminaires (non-professional) (GB 7000.19-2005);
 - Luminaires -- Part 2-10: Particular requirements -- Portable luminaires for children (GB 7000.4-2007);
 - Luminaires -- Part 2-11: Particular requirements -- Aquarium luminaires (GB/T 7000.211-2023);
 - Luminaires -- Part 2-12: Particular requirements -- Mains socket-outlet mounted nightlights (GB/T 7000.212-2023);
 - Luminaires -- Part 2-13: Particular requirements -- Ground recessed luminaires (GB/T 7000.213-2023);
 - Luminaires -- Part 2-14: Particular requirements -- Luminaires for cold cathode
- Luminaires - Part 2-4: Particular requirements - Portable
general purpose luminaires

1 Scope

This document specifies the requirements for portable general purpose luminaires.

This document applies to portable general purpose luminaires for indoor and/or outdoor

use (e.g., garden use) with a power supply voltage not exceeding 250V and using electric light sources as light sources.

This document does not apply to hand luminaires.

2 Normative references

The following referenced documents are indispensable for the application 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.

GB/T 7000.1, Luminaires -- Part 1: General requirements and tests (GB/T 7000.1-2023, IEC 60598-1:2020, MOD)

GB/T 16842-2016, Protection of persons and equipment by enclosures -- Probe for verification (IEC 61032:1997, IDT)

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in Part 11 apply.

3.1 candlestick luminaires

A portable general purpose luminaire with bulbs connected in series, fixedly mounted and dispersed on free-standing racks.

NOTE: Candlestick luminaires are available with E5 or E10 lamp bases.

4 General test requirements

The provisions of Part 1, Chapter 0 apply. The tests required in Part 1 shall be performed

10 Terminal blocks

The provisions of Chapters 14 and 15 of Part 1 shall apply.

11 External and internal wirings

The provisions of Chapter 5 of Part 1 shall apply with the following modifications.

11.1 The requirement that "the cord anchor shall be at least partially fixed to the luminaire or be an integral part of the luminaire" does not apply to table luminaires

made of glass or ceramic for indoor use.

11.2 For indoor Class I and Class II portable general purpose luminaires with a mass

less than 1 kg, a rated current not exceeding 2.5 A, and a flexible cable length not exceeding 2 m, the nominal cross-sectional area of the copper core conductor of the flexible cable shall not be less than 0.5 mm².

11.3 Outdoor portable general purpose luminaires that are not provided with flexible

cables or cords and plugs shall provide wiring terminals, flexible cord fixing frames and wire inlets for the correct connection of flexible cables or cords.

NOTE: Wiring regulations in various countries may require that Class II portable general purpose outdoor luminaires be equipped with a non-detachable flexible cable or cord and plug. Compliance shall be checked by inspection and, where necessary, by the tension and torque tests required by Part 1, Chapter 5.

11.4 For Class I and Class II portable general purpose luminaires for outdoor use, the

non-detachable flexible cable or cord shall not be lower than the model of 245 IEC 57.

NOTE: In Australia and New Zealand, polyvinyl chloride (PVC) insulated cables are suitable for outdoor use.

Compliance shall be checked by inspection.

12 Protection against electric shock

Part 1, Chapter 8 as well as the following provisions shall apply.

Class I portable general purpose luminaires using bayonet lamp holders shall comply with one of the following two provisions:

1) When the lamp is assembled in normal use, the test finger shall not touch the lamp cap of the bulb;

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