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

GB/T 7000.220-2023

Replacing GB 7000.9-2008

**Luminaires - Part 2-20: Particular requirements - Lighting
chains**

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is part 2-20 of GB (T)7000: GB (T)7000 has released the following parts:

---Lamps Part 1: General requirements and tests (GB/T 7000.1-2023);

---Lamps Part 2-1: Fixed universal lamps with special requirements (GB/T 7000.201-2023);

---Lamps Part 2-2: Special requirements for embedded lamps (GB/T 7000.202-2023);

---Lamps Part 2-3: Special requirements for road and street lighting fixtures (GB 7000.203-2013);

---Lamps Part 2-4: Movable general-purpose lamps with special requirements (GB/T 7000.204-2023);

- Lamps Part 2-5: Special requirements for floodlights (GB/T 7000.205-2023);
- Lamps Part 2-6: Special requirements for lamps with built-in tungsten filament lamp transformers or converters (GB 7000.6-2008);
- Lamps Part 2-8: Special requirements portable lamps (GB/T 7000.208-2023);
- Safety requirements for lighting fixtures for photography and film (non-professional use) (GB 7000.19-2005);
- Lamps Part 2-10: Special requirements for removable lamps for children (GB 7000.4-2007);
- Lamps Part 2-11: Special requirements for aquarium lamps (GB/T 7000.211-2023);
- Lamps Part 2-12: Night lights with special requirements for power socket installation (GB/T 7000.212-2023);
- Lamps Part 2-13: Special requirements for ground recessed lamps (GB/T 7000.213-2023);
- Lamps Part 2-14: Special requirements for lamps using cold cathode tubular discharge lamps (neon lamps) and similar equipment (GB 7000.214-2015);
- Lamps Part 2-17: Special requirements for stage lighting, television, film and photography venues (indoor and outdoor) (GB/T 7000.217-2023);
- Lamps Part 2-18: Special requirements for lamps for swimming pools and similar places (GB/T 7000.218-2023);
- Lamps Part 2-21: Special requirements for light strips (GB/T 7000.221-2023);
- Lamps Part 2-22: Special requirements for emergency lighting fixtures (GB/T 7000.222-2023);
- Lamps Part 2-23: Special requirements for extra-low voltage (ELV) lighting systems for light sources (GB/T 7000.223-2023);
- Lamps Part 2-24: Special requirements for surface temperature lamps (GB/T 7000.224-2023);
- Lamps Part 2-25: Special requirements for lamps used in hospitals and rehabilitation building clinics (GB 7000.225-2008):

This document replaces GB 7000.9-2008 "Lamps - Part 2-20: Light strings with special requirements" and is consistent with GB 7000.9-2008 in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Changed the scope (see Chapter 1, Chapter 1 of the:2008 edition);

- b) Added four terms and their definitions including "connector with breaking capability" (see 3.3~3.6);
- c) Changed the enclosure protection level of outdoor light strings (see 5.3, 4:2 of the:2008 edition);
- d) The markings on the light strings and packaging have been changed (see Chapter 6, Chapter 5 of the:2008 edition);
- e) Changed the temporary installation of protective light strings in the structure (see Chapter 7, Chapter 6 of the:2008 edition);
- f) Changed the applicable scope of creepage distance and electrical clearance (see Chapter 8, Chapter 7 of the:2008 edition);
- g) Changed the requirements for terminal blocks (see Chapter 10, Chapter 9 of the:2008 edition);
- h) Changed the requirements for wire specifications and conductor cross-sectional area in external and internal wiring (see Chapter 11, Chapter 10 of the:2008 edition);
- i) Added requirements for sealing parts (see 12.5);
- j) Changed the test voltage of durability test and thermal test (see 13.2, 12:1 of the:2008 edition);
- k) Added short-circuit test requirements for rectifiers (see 13.4);
- l) Changed the test requirements for screw-type lampholders and bayonet-type lampholders in heat resistance, fire resistance and marking resistance (see Chapter 16,:2008 edition Chapter 15);
- m) Added the normative appendix "Requirements for interconnecting connectors for light strings" (see Appendix A):

This document is modified to adopt IEC 60598-2-20:2022 "Lamps Part 2-20: Special Requirements Light Strings":

The technical differences between this document and IEC 60598-2-20:2022 and their reasons are as follows:

---Replaced IEC 60598-1 with normatively quoted GB/T 7000.1 to facilitate the application of the series of standards:

The following editorial changes have been made to this document:

- Replaced IEC 60050-581:2008 with the informative reference GB/T 4210-2015;
- Replaced IEC 60598-2-24 with the informative reference GB/T 7000.204;
- Replaced IEC 60598-2-21 with the informative reference GB/T 7000.221: