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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA/T 488-2020

General technical specifications for vehicle-mounted lighting equipment for road traffic accident scene investigation

道路交通事故现场勘查车载照明设备通用技术条件

(English Translation)

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Preview: page 1 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
4 Category
5 Technical requirements
6 Test method
7 Installation requirements
8 Inspection rules
9 Marking and packaging
10 Transportation and storage
Appendix A (Normative Appendix) Light Color Chromaticity Diagram
Reference

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA/T 488-2004 "General Technical Requirements for Vehicle-mounted Lighting Equipment for Road Traffic Accident Site Investigation". versus Compared with GA/T 488-2004, the main technical changes except for editorial changes are as follows.

---Modified the scope (see Chapter 1, Chapter 1 of the 2004 edition);

---Modified the normative references (see Chapter 2, Chapter 2 of the 2004 edition);

---Modified the terms and definitions of "road traffic accident site survey vehicle lighting equipment" (see 3.1, 3.1 in 2004 edition);

---Modified the term and definition of "reference axis" (see 3.2, 3.2 in 2004 edition);

---Modified the terms and definitions of "flood light" (see 3.3, 2004 edition of 3.3);

---Modified the term and definition of "spotlight" (see 3.4, 3.4 in 2004 edition);

---Modified the classification (see Chapter 4, Chapter 4 of the 2004 edition);

---Modified the composition (see 5.1, 5.2 of the 2004 edition);

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---Modified the general requirements (see 5.2, 5.1 of the 2004 edition);

---The rated working voltage has been increased (see 5.3);

---Modified the color characteristics of the light source (see 5.4.1, 5.4.1 in the 2004 edition);

---Modified the optical performance (see 5.4.2, 5.4.2 of the 2004 edition);

---Modified the startup time (see 5.4.4, 5.4.4 of the 2004 edition);

---Modified the continuous lighting time (see 5.4.5, 5.4.5 of the 2004 edition);

---Modified the lifting system (see 5.5.1, 5.5 in the 2004 edition);

---Modified the rotation system (see 5.5.2, 5.6 of the 2004 edition);

---Increase wireless control function and standby current (see 5.5.3 and 5.5.4)

---Modified electrical safety performance (see 5.6, 5.9 in 2004 edition);

---Modified the electromagnetic immunity performance (see 5.7, 5.13 in 2004 edition);

---Modified the enclosure protection requirements (see 5.8, 5.4.6 of the 2004 edition);

---Modified the temperature resistance performance (see 5.9, 5.11 of the 2004 edition);

---The actual vehicle operation inspection has been deleted (see 5.14 of the 2004 edition);

---Added mechanical environment tolerance and physical interface requirements (see 5.10 and 5.11);

---Modified the test method (see Chapter 6, Chapter 6 of the 2004 edition);

---Added installation requirements (see Chapter 7).

This standard is under the jurisdiction of the National Road Traffic Management Standardization Technical Committee (SAC/TC576).

The organization responsible for drafting this standard. Traffic Management Research Institute of the Ministry of Public Security.

Participated in the drafting of this standard. National Road Traffic Safety Product Quality Supervision and Inspection Center.

1 Scope

This standard specifies the classification, technical requirements, test methods, installation requirements, and inspection regulations of on-board lighting equipment for road traffic accident site investigation Rules, marking and packaging, transportation and storage.

This standard is applicable to the survey lighting equipment configured by the survey vehicles at the scene of road traffic accidents.

Preview: page 3 of 4 shown, 16 in the full document. Complete English PDF, instant download:
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2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 2423.1 Environmental testing of electrical and electronic products Part 2: Test method Test A. Low temperature GB/T 2423.2 Environmental testing of electric and electronic products Part 2: Test method Test B. High temperature GB/T 2423.10 Environmental Test Part 2: Test Method Test Fc. Vibration (Sine) GB/T 4208 Shell protection grade (IP code) GB/T 8417 light signal color GB/T 12534 General rules of road test methods for automobiles GB/T 12678 Automobile Reliability Driving Test Method GB 14887-2011 road traffic signal lights GB/T 17626.2 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test GB/T 17626.4 Electromagnetic compatibility test and measurement technology Electrical fast transient pulse group immunity test GB/T 17626.11 Electromagnetic compatibility test and measurement technology Voltage sag, short-term interruption and voltage change immunity test

3 Terms and definitions

The following terms and definitions apply to this document.

Vehicle-mounted lighting equipment for road traffic accident site survey vehicle-mounted lighting equipment for road traffic accident sceneinvestigation Loaded on a road traffic accident site survey vehicle, dedicated to rescue, survey and other disposal work at the accident site lighting device.

Reference axis

A straight line perpendicular to the horizontal projection surface of the light-emitting surface and passing through the geometric center of the light-emitting surface.

[GB 14887-2011, definition 3.2] 3.3 Floodlighting Designed for projection lighting, a projector whose effective illumination angle range in the horizontal direction of the light source is greater than or equal to 60°.

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