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

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**Light emitting diode (LED) lamp used in waterscape
(English Translation)**

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Foreword

This document was proposed by the Institute of Standards and Quotations, Ministry of Housing and Urban-Rural Development.

This document by the Ministry of Housing and Urban Water Supply and Drainage Products Standardization Technical Committee.

This document was drafted. China Building Metal Structure Association Water Supply and Drainage Equipment Branch, Tongfang Co., Ltd., Shanghai Jia Jing Yuan Fountain Equipment Co., Ltd., Beijing Branch of Hongzheng Environmental Technology Co., Ltd., Beijing Dongfang Everbright Installation Engineering Group Co., Ltd., Chongqing source Optoelectronics Technology Co., Ltd., Beijing Oriental Shengjing artificial environment Development Co., Ltd., Beijing Spirit Music Laser Engineering Co., Ltd., Yixing City, the United States Di Waterscape Engineering Co., Ltd., Beijing Jian Tong Xingye Environmental Technology Co., Ltd., Hebei Taihang Environmental Art Fountain Co., Ltd., Guangzhou Jinhan have Co., Ltd., Xiamen City, Hengyang Fountain Equipment Co., Ltd., Yangzhou Purcell Electric Light Source Co., Ltd., Yangzhou landscape Environmental Technology Co., Changzhou Chang River Water Environmental Engineering Co., Ltd., Neijiang City, Sichuan Province, Fountain Factory, Beijing Wanhua Sunshine Fountain Equipment Co., Ltd., Hangzhou, Han Yu landscape Engineering Co., Ltd., Guangxi Bihong Landscape Engineering Co., Ltd., Yixing Ssangyong Water Equipment Co., Ltd., Liaoning takeoff fountain landscape engineering limited Company, Jiangsu Sony of Environmental Engineering Co., Ltd., Hangzhou Huayi Fountain Equipment Co., Ltd., Shaanxi Water Dragon Landscape Engineering Co., Ltd..

1 Scope

This standard specifies the terms and definitions, abbreviations, requirements, test methods, inspection rules, signs, Packaging, transportation and storage.

This standard applies to water features, music fountains, waterfalls, fountains and other places used in light-emitting diode (LED) lights.

This standard does not apply to swimming pools, bathrooms and other places in direct contact with the human body.

2 Normative references

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

GB/T 2828.1 Sampling procedures for inspection - Part 1. Batch inspection sampling plan by acceptance quality limit (AQL) (ISO 2859-1.:1999) GB/T 2900.65-2004 Electrotechnical terminology lighting (IEC 60050 (845). 1987) GB 4208-2008 enclosure protection (IP code) (IEC 60529.:2001) GB 7000.1-2007 Lamps - Part 1. General requirements and tests (IEC 60598-1.:2003) General requirements for light distribution testing of luminaires GB/T 9468-2008 GB/T 17262-2002 Single-ended fluorescent lamps performance requirements (IEC 60901.:2000) GB/T 17626.5 electromagnetic compatibility test and measurement techniques surge (impact) immunity test (IEC 61000-4-5.:2005) GB 17743-2007 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment GB/T 19658-2005 Reflected light center intensity and beam angle measurement method (IEC 61341.:1994) Photobiological safety of lamps and lamp systems (IEC 62471.:2006) GB/T.20145-2006

3 Terms and Definitions, Abbreviations

The following terms and definitions, abbreviations apply to this document.

3.1 Terms and definitions

3.1.1

LED lightemittingdiode Pn-junction solid-state device capable of generating optical radiation when excited by current.

3.1.2

Water-based light-emitting diode (LED) light Lightemittingdiode (LED) lampusedinwaterscape Refers to the use of LED as a light source for water features, music fountains, waterfalls, fountains and other places landscape lighting modular lighting

devices.

3.1.3

Safety extra low voltage in a circuit isolated from the supply by a safety isolating transformer or converter with separate windings, between conductors or in any Between the conductor and the ground, not more than 50V AC rated voltage value.