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

GB/T 12454-2017

Replacing GB/T 12454-2008

Method of evaluating luminous environment

光环境评价方法

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 12454-2008 "visual environmental assessment method", compared with GB/T 12454-2008 main changes are as follows:

- Increasing the evaluation of the control items (see 4.2);
- Increased light environmental quality classification method (see 4.5);
- Increasing the calculation parameters of glass curtain wall reflection parameters (see Appendix B). This standard by the National Standardization Technical Human Ergonomics (SAC/TC7) and focal point. This standard drafting unit. China Academy of Building Research, China National Institute of Standardization, Beijing Qing Cheng Pin Sheng Lighting Institute Co., Ltd., Ministry of Environmental Protection South China Institute of Environmental Science, Shanghai Environmental Energy Conservation Engineering Co., Ltd., Shanghai Tianqiao Information Technology Co., Ltd., Hangzhou Luo Laodi Si Lighting Systems Ltd., Xiamen Rieter letter Lighting Co., Ltd. The main drafters of this standard. Wangshu Xiao, Zhang Xin, Zhang Yaogen, Ran Linghua, Rong Hao Lei, Luo Tao, Liu Qian Yao, Wu Yan Yu, store Jinghua, Zhang Bin, Li Yuan, Wang Zhongquan, Ma Ye, Xu Jianxing, elegant spring. This standard replaces the standards previously issued as.
- GB/T 12454-1990, GB/T 12454-2008. Light environmental assessment method

1 Scope

GB/T 12454-2017 is the Chinese national standard on method of evaluating luminous environment, in the field of environment and health protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 12 July 2017 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2018. Classification: ICS 13.180, CCS A25. This page is published from the official record of the

standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the basic requirements of light environment quality evaluation, evaluation indicators, evaluation methods and steps. This standard applies to civil and industrial buildings and outdoor work sites, roads, night lighting and other indoor and outdoor light quality evaluation.

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 5699 lighting measurement methods

GB/T 5700 lighting measurement methods

GB/T 18091 glass curtain wall thermal performance

GB 50033 architectural lighting design standards

GB 50034 architectural lighting design standards

GB 50180 urban residential area planning and design specifications

GB 50582 outdoor work place lighting design standards

GB/T 50947 building sunlight calculation parameter standard CJJ45 urban road lighting design standards JGJ/T 119 architectural lighting terminology standards JGJ/T 163 Urban Night Lighting Design Code

3 Terms and definitions

JGJ/T 119 as defined in the following terms and definitions apply to this document.

3.1 Light environment luminousenvironment The visual environment that affects the physical and psychological composition of people.

3.2 Light environment index ratingofluminousenvironment Considering the light environment on the human visual function, visual comfort and other factors, the use of measured and subjective evaluation methods to determine Indicate the quality of the light environment index.

4 Basic requirements

4.1 light environment should be evaluated using light environment index.

4.2 Evaluation Indicators Including control items and grading items, the assessment results should meet the following requirements.

- a) The result of the evaluation of control items should be satisfied or not satisfied;

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