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Photometry of white light emitting diode for general lighting—Part 1: LED packages

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Lighting Manufacturers Association (JLMA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS C 8152-1**: 2014), which has been technically revised.

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JIS C 8152 series consists of the following 3 parts under the general title *Photometry* of white light emitting diode for general lighting:

Part 1: LED packages Part 2: LED modules and LED light engines Part 3: measurement methods for lumen maintenance

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Photometry of white light emitting diode for general lighting—Part 1: LED packages

Introduction

This Japanese Industrial Standard was established in 2012, and has gone through two revisions including this one. The last revision was made in 2014, and the revision at this time is to respond to the progress in LED luminaire products and the advances in photometric technology.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the method for obtaining the luminous quantities such as CIE averaged LED intensity and total luminous flux, and the quantities concerning the light source colour of white light emitting diode (LED) packages for general lighting.

The photometry of light sources for general lighting (including bulb-type LED lamps) shall be in accordance with **JIS C 7801**. Furthermore, see **JIS C 8152-2** for the photometry of LED modules and LED light engines, and **JIS C 8105-5** for the photometry of LED luminaires etc. using a light distribution measurement device.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS C 1609-1 Illuminance meters Part 1: General measuring instruments
- JIS C 62504 General lighting—Light emitting diode (LED) products and related equipment—Terms and definitions
- JIS Z 8103 Glossary of terms used in measurement
- JIS Z 8113 Lighting vocabulary
- JIS Z 8724 Methods of colour measurement—Light-source colour
- JIS Z 8725 Methods for determining distribution temperature and colour temperature or correlated colour temperature of light sources
- JIS Z 8726 Method of specifying colour rendering properties of light sources

JIS Z 8781-1 Colorimetry—Part 1: CIE standard colorimetric observers

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS Z 8103**, **JIS Z 8113** and **JIS C 62504**, and the following apply.