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Recommendation for tunnels lighting

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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 The Illuminating Engineering Institute of Japan (IEIJ)/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 Z 9116** : 1990), which has been technically revised.

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Recommendation for tunnels lighting

1 Scope

This Japanese Industrial Standard specifies the requirements for lighting of road tunnels (hereafter referred to as tunnels) used for safe and smooth road traffic and the methods for calculating the luminance and illuminance required for their design.

It is also applicable to road sections (e.g. underpass) where artificial lighting is required under conditions similar to those of tunnels.

2 Normative references

Part or all of the provisions of the following standards, 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 Z 8113 *Lighting vocabulary*

JIS Z 8726 *Method of specifying colour rendering properties of light sources*

JIS Z 9110 *General rules of recommended lighting levels*

JIS Z 9111 *Recommendation for roads lighting*

JIS Z 9112 *Classification of fluorescent lamps and light emitting diodes by chromaticity and colour rendering property*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS Z 8113**, **JIS Z 9110** and **JIS Z 9111** apply.

3.1

design speed

speed of vehicles as basis for road design

3.2

traffic density

number of vehicles passing a given section of road at a given time

3.3

arrangement of luminaire

method of installation of luminaires determined by the mounting height, intervals and array of luminaire

3.4

luminance in access zone