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Illuminance for railway rolling stock — Recommended levels and measuring methods

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Transportation through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Illuminance for railway rolling stock — Recommended levels and measuring methods

1 Scope This Japanese Industrial Standard specifies the levels and measuring methods of illuminance for railway rolling stock, required for assuring the favourable interior environment and safety for passengers and crew members, by adopting artificial lights.

NOTE : The following standards are cited in this Standard.

JIS C 1609 *Illuminance meters*

JIS C 7612 *Illuminance measurements for lighting installations*

JIS E 4001 *Railway rolling stock — Vocabulary*

2 Terms and Definitions For the purpose of this Standard, the terms and definitions given in JIS E 4001 apply.

3 Required illuminance The required illuminance shall conform to table 1 in accordance with the classification of the locations where artificial lights are installed.

The general conditions concerning the illuminance shown in attached table 1 shall be as follows.

(1) The illuminance shown in attached table 1 shall be constantly-maintained illuminance. Consequently, the lighting facilities shall be designed by considering the maintenance ratio ⁽¹⁾.

Note ⁽¹⁾ The ratio between the average illuminance attained after the lighting facilities are used for a certain period of time, and the initial illuminance of the lighting facilities.

(2) Unless otherwise specified, the illuminance of the general lighting accompanied by the local lighting shall be the value attained with the local lighting turned on.

(3) Unless otherwise specified, the illuminance of the local lighting shall be the value attained with the general lighting turned on.

(4) When the local lighting is measured at a single point, at least the value shown in attached table 1 shall be attained.

4 Method for measuring the illuminance

4.1 General conditions The general conditions of the method for measuring the illuminance shall be as follows.

(1) The illuminance shall be measured using the illuminance meter specified in JIS C 1609.

(2) Care shall be taken to prevent the position and clothes of the person in charge of the measurement from affecting the measurement.

(3) The interior temperature, the voltage and the frequency of the power source shall