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(JLMA/JSA)

**Luminaires with LED light source or
fluorescent lamp for commercial,
industrial and public lighting**

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Foreword

This translation has been made based on the original Japanese Industrial Standard 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 the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS C 8106:2008** is replaced with this Standard.

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Luminaires with LED light source or fluorescent lamp for commercial, industrial and public lighting

Introduction

This Japanese Industrial Standard was established in 1950 and has gone through 13 revisions up to the present. This Standard, which was revised most recently in 2008, has now been revised by adding luminaires with LED light source to the scope and by reviewing its specifications for performance and safety.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies luminaires with LED light source and/or fluorescent lamp of an input voltage not exceeding a.c. 300 V for general lighting ¹⁾, without using such connectors as attachment plugs and hang-type ceiling rosettes.

However, this Standard does not apply to the following items.

- a) Luminaires excluding general purpose luminaire ²⁾
- b) Portable luminaire, road and street luminaires, and projectors.
- c) Luminaires using compact self-ballasted LED lamp and/or compact self-ballasted fluorescent lamp

Notes ¹⁾ General lighting means “uniform lighting of the whole room, instead of lighting a specific part” (see **JIS Z 8113**).

²⁾ Examples of luminaires excluding general purpose luminaires are described in NOTE of clause 1 of **JIS C 8105-3**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent edition (including amendments) shall be applied.

JIS C 7601 *Fluorescent lamps for general lighting service*

JIS C 7709-2 *Lamp caps and holders together with gauges for the control of interchangeability and safety Part 2 : Lampholders*

JIS C 8105-1 *Luminaires — Part 1 : General requirements for safety*

JIS C 8105-2-1 *Luminaires — Part 2 : Particular requirements for safety — Section 1 : Fixed general purpose luminaires*

JIS C 8105-2-2 *Luminaires — Part 2-2 : Particular requirements for safety — Re-*

cessed luminaires

JIS C 8105-2-19 *Luminaires — Part 2 : Particular requirements for safety — Section 19: Air-handling luminaires*

JIS C 8105-3 : 2011 *Luminaires — Part 3 : General requirements for performance*

JIS C 8108 *Ballasts for fluorescent lamps*

JIS C 8117 *AC supplied electronic ballasts for fluorescent lamps*

JIS C 8121-2-3 *Miscellaneous lampholders — Part 2-3 : Particular requirements — Lampholders for double-capped linear LED lamps*

JIS C 8153 *DC or AC supplied electronic control gear for LED modules — Performance requirements*

JIS C 8154 *LED modules for general lighting — Safety specifications*

JIS C 8155 *LED modules for general lighting service — Performance requirements*

JIS C 8324 *Lampholders and starterholders for fluorescent lamps*

JIS C 8366 *Lighting busways*

JIS Z 8113 *Lighting vocabulary*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in Chapter 1 of JIS C 8105-1, 19.3 of JIS C 8105-2-19, clause 3 and A.3 of JIS C 8105-3, clause 3 of JIS C 8154, JIS Z 8113, and the following apply.

3.1 luminaire with LED light source for commercial, industrial and public lighting

luminaire mainly with LED light source to which the power supply wires are connected without using such connector as attachment plug, hang-type ceiling rosette, etc., and luminaire mainly with LED light source for lighting busway having an attachment plug for connection with a lighting busway

3.2 fluorescent lamp luminaire for commercial, industrial and public lighting

luminaire mainly with fluorescent lamp to which the power supply wires are connected without using such connector as attachment plug, hang-type ceiling rosette, etc., and luminaire mainly with fluorescent lamp for lighting busway having an attachment plug for connection with a lighting busway

4 Classification of luminaires

4.1 Division by light source

The luminaires shall be classified into luminaires with LED light source and fluorescent lamp luminaires for commercial, industrial and public lighting.

4.2 Other divisions

Other divisions of luminaires are as given in Table 1.

Table 1 Classification of luminaires

Classification	Kind of luminaire
Mounted state	Pendant type, fixed type (direct mount type), recessed type
Protection against electric shock	Class 0, Class I, Class II
Protection against ingress of water	Normal type, drip-proof type, rain-proof type, splash-proof type, jet-proof type, powerful jet-proof type, immersion-proof type, moisture-proof type
Material of mounting face	Luminaire to be mounted on the surface of non-combustible material only; luminaire to be mounted on the surface of flammable material; luminaire to be directly mounted on or recessed in the surface of flammable material, which may be covered by heat insulating material; luminaire to be directly mounted on or recessed in the surface of flammable material, which will not be covered by heat insulating material

NOTES 1 The requirements for luminaires by other divisions are as given in clauses 5 and 6.

- 2 By the classification of mounted state, the pendant type is covered in the scope of **JIS C 8105-2-1**, the fixed type (direct mount type) in that of **JIS C 8105-2-1**, the recessed type excluding air-handling luminaire in that of **JIS C 8105-2-2**, and the recessed type air-handling luminaire in that of **JIS C 8105-2-19**.

5 Requirements

5.1 Safety requirements

5.1.1 General test requirements

For general test requirements, the provisions in any of 1.2 of **JIS C 8105-2-1**, 2.3 of **JIS C 8105-2-2** and 19.2 of **JIS C 8105-2-19** shall apply according to the type of luminaire.

5.1.2 Construction

For construction, the provisions in any of 1.6 of **JIS C 8105-2-1**, 2.7 of **JIS C 8105-2-2** and 19.6 of **JIS C 8105-2-19** shall apply according to the type of luminaire.

5.1.3 Insulation distance

For insulation distance, the provisions in any of 1.7 of **JIS C 8105-2-1**, 2.8 of **JIS C 8105-2-2** and 19.7 of **JIS C 8105-2-19** shall apply according to the type of luminaire.

5.1.4 Protective earthing

For protective earthing, the provisions in any of 1.8 of **JIS C 8105-2-1**, 2.9 of **JIS C**