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Luminaires — Part 5: Gonio-photometric methods

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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 8105-5**:2014), which has been technically revised.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

JIS C 8105 series consists of the following 23 parts under the general title *Luminaires —* :

Part 1 : General requirements for safety

Part 2-1 : Particular requirements for safety — Fixed general purpose luminaires

Part 2-2 : Particular requirements for safety — Recessed luminaires

Part 2-3 : Particular requirements for safety — Luminaires for road and street lighting

Part 2-4 : Particular requirements for safety — Portable general purpose luminaires

Part 2-5 : Particular requirements for safety — Floodlights

Part 2-6 : Particular requirements for safety — Luminaires with built-in transformers or converters for filament lamps

Part 2-7 : Particular requirements for safety — Portable luminaires for garden use

Part 2-8 : Particular requirements for safety — Handlamps

Part 2-9 : Particular requirements — Photo and film luminaires (non-professional)

Part 2-11 : Particular requirements — Aquarium luminaires

Part 2-12 : Particular requirements — Mains socket-outlet mounted nightlights

Part 2-13 : Particular requirements for safety — Ground recessed luminaires

Part 2-14 : Particular requirements — Luminaires for cold cathode tubular discharge lamps (neon tubes) and similar equipment

Part 2-17 : Particular requirements for safety — Luminaires for stage lighting, television, film and photographic studios (outdoor and indoor)

Part 2-19 : Particular requirements for safety — Air-handling luminaires

Part 2-20 : Particular requirements for safety — Lighting chains

Part 2-21 : Particular requirements for safety — Rope lights

Part 2-22 : Particular requirements — Luminaires for emergency lighting

Part 2-23 : Particular requirements — Extra low voltage lighting systems for filament lamps

Part 2-24 : Particular requirements — Luminaires with limited surface temperatures

Part 3 : General requirements for performance

Part 5 : Gonio-photometric methods

Luminaires — Part 5 : Gonio-photometric methods

1 Scope

This Japanese Industrial Standard specifies the methods for measuring the luminous intensity distributions and luminous flux of general purpose luminaires incorporating electric light sources (incandescent lamps, fluorescent lamps, other discharge lamps and electroluminescent devices such as an LED).

If a specific luminaire product standard specifies other measurement methods than given in this Standard, those methods shall apply.

The "general purpose luminaires" for the purpose of this scope do not include the following. However, this Standard may be applied to luminaires or light sources other than general purpose luminaires where applicability is recognized.

a) Luminaires used underwater

b) Luminaires for emergency exit sign in accordance with the Fire Service Act

c) Luminaires for takeoff and landing of airplanes and obstacle light luminaires

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 C 1102-2 *Direct acting indicating analogue electrical measuring instruments and their accessories Part 2 : Special requirements for ammeters and voltmeters*

JIS C 1102-3 *Direct acting indicating analogue electrical measuring instruments and their accessories Part 3 : Special requirements for wattmeters and varmeters*

JIS C 1609-1 *Illuminance meters Part 1 : General measuring instruments*

JIS C 7801 *Measuring methods of lamps for general lighting*

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

JIS Z 8113 *Lighting vocabulary*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS Z 8113**, **JIS C 8105-3** and **JIS C 7801** apply.

3.1

rated input voltage