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(JLA/JSA)

**Luminaires — Part 2-8: Particular
requirements for safety — Handlamps**

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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 the Japan Luminares Association (JLA) /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 8105-2-8: 2005** is replaced with this Standard.

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JIS C 8105 series consists of the following parts under the general title “*Luminares*”

- JIS C 8105-1 *Part 1 : General requirements for safety*
- JIS C 8105-2-1 *Part 2 : Particular requirements for safety—Section 1 : Fixed general purpose luminaires*
- JIS C 8105-2-2 *Part 2 : Particular requirements for safety—Section 2 : Recessed luminaires*
- JIS C 8105-2-3 *Part 2-3 : Particular requirements for safety—Luminaires for road and street lighting*
- JIS C 8105-2-4 *Part 2 : Particular requirements for safety—Section 4 : Portable general purpose luminaires*
- JIS C 8105-2-5 *Part 2 : Particular requirements for safety—Section 5 : Floodlights*
- JIS C 8105-2-6 *Part 2 : Particular requirements for safety—Section 6 : Luminaires with built-in transformers or converters for filament lamps*
- JIS C 8105-2-7 *Part 2 : Particular requirements for safety—Section 7 : Portable luminaires for garden use*
- JIS C 8105-2-8 *Part 2 : Particular requirements for safety—Section 8 : Handlamps*
- JIS C 8105-2-9 *Part 2 : Particular requirements for safety—Section 9: Photo and film luminaires (non-professional)*
- JIS C 8105-2-12 *Part 2-12 : Particular requirements—Mains socket-outlet mounted nightlights*
- JIS C 8105-2-13 *Part 2-13 : Particular requirements—Ground recessed luminaires*
- JIS C 8105-2-17 *Part 2 : Particular requirements for safety Section 17 : Luminaires for stage lighting, television, film, and photographic (outdoor and indoor)*
- JIS C 8105-2-19 *Part 2 : Particular requirements for safety—Section 19 : Air-handling luminaires*
- JIS C 8105-2-20 *Part 2-20 : Particular requirements—Lighting chains*
- JIS C 8105-2-22 *Part 2 : Particular requirements for safety Section 22 : Luminaires for emergency lighting*
- JIS C 8105-2-23 *Part 2-23 : Particular requirements—Extra low voltage lighting systems for filament lamps*
- JIS C 8105-3 *Part 3 : General requirements for performance*

Luminaires — Part 2-8 : Particular requirements for safety — Handlamps

Introduction

This Japanese Industrial Standard has been prepared based on Edition 2.2 of IEC 60598-2-8 published in 2007 and with some modifications of the technical contents.

The portions given continuous sidelines or dotted underlines are the matters not given in the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

This Standard is to be read in conjunction with JIS C 8105-1.

8.1 Scope

This Standard specifies requirements for handlamps and similar portable luminaires (hereafter referred to as “handlamps”) which are held in the hand, hooked up or resting on a surface for use with electric light sources (an incandescent lamp, a fluorescent lamp, other discharge lamps and electroluminescent devices such as an LED) on supply voltages not exceeding 250 V.

This Standard is applicable to handlamps which can be fixed to a support by means of a wing screw, clip or magnet (e.g. handlamps intended for shedding light under a vehicle and for use at a construction site. Those intended for inspection of the interior of barrels in which there is a risk of generation of flammable gas are not included), portable handlamps with grips, and luminaires used for inspection inside instruments.

NOTE 1 In Japan, the portable handlamps as shown in figure 0A are popularly used.

NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60598-2-8 : 2007 *Luminaires — Part 2-8 : Particular requirements — Handlamps* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and JIS are IDT (identical), MOD (modified), and NEQ (not equivalent) according to ISO/IEC Guide 21-1.

8.1A 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 0920 *Degrees of protection provided by enclosures (IP Code)*

JIS C 3312	<i>600 V Grade polyvinyl chloride insulated and sheathed portable power cables</i>
JIS C 3327	<i>600 V Rubber insulated flexible cables</i>
JIS C 3662-5	<i>Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V — Part 5 : Flexible cables (cords)</i>
JIS C 3663-4	<i>Rubber insulated cables — Rated voltages up to and including 450/750 V — Part 4 : Cords and flexible cables</i>
JIS C 8105-1	<i>Luminaires — Part 1 : General requirements for safety</i>

8.2 General test requirements

8.2.1 The provisions of Section 0 of JIS C 8105-1 apply together with the requirements of 8.2.2. The tests described in each appropriate section of JIS C 8105-1 shall be carried out in the order listed in this Standard.

8.2.2 The requirements of the second paragraph of 0.4.2 of JIS C 8105-1 do not apply (luminaires with unfinished internal wiring are not deemed as conforming to the requirements of the standard).

In general, four samples are necessary for the tests, three of which are subjected to the tests of 8.6.6, the fourth sample being subjected to the other tests. All four samples shall be subjected as well to the test for rough service luminaires of 4.13.4 b) of JIS C 8105-1.

For handlamps provided with a rubber protection cover, an additional sample is necessary for the test of 8.12.1.

Where a range of similar handlamps is involved, the specified tests are made on a representative complete set from the range. This set shall include handlamps, together with any attachments, which represents the most unfavourable combination.

8.3 Terms and definitions

The definitions of Section 1 of JIS C 8105-1 apply, together with the following definitions :

8.3.1 handlamp

a luminaire with a handle and a flexible cable or cord, intended to be moved frequently while connected to the supply (portable luminaire)

8.3.2 rewirable handlamp

a handlamp with a Type X or Y attachment

8.3.3 non-rewirable handlamp

a handlamp with a Type Z attachment

8.3.4 sealed handlamp

a handlamp of which all protective covers are sealed and which makes it impossible to