



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 8105-2-9 : 2011

(JLA/JSA)

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

ICS 13.300;29.140.40;37.040.99;37.060.99

Reference number : JIS C 8105-2-9 : 2011 (E)

PROTECTED BY COPYRIGHT

Date of Establishment: 2000-03-20

Date of Revision: 2011-03-22

Date of Public Notice in Official Gazette: 2011-03-22

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Electricity Technology

JIS C 8105-2-9 : 2011, First English edition published in 2013-07

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction	1
9.1 Scope	1
9.1A Normative references	1
9.2 General test requirements	2
9.3 Terms and definitions	2
9.4 Classification of luminaires	2
9.5 Marking	3
9.6 Construction	3
9.7 Creepage distances and clearances	5
9.8 Provision for earthing	5
9.9 Terminals	5
9.10 External and internal wiring	5
9.11 Protection against electronic shock	6
9.12 Endurance tests and thermal tests	6
9.13 Resistance to dust and moisture	8
9.14 Insulation resistance and electric strength	8
9.15 Resistance to heat, fire and tracking	8
Annex A (normative) Requirements relating to the construction of the screen	9
Annex B (normative) Guide for determination of maximum bulb wall temperature of low-pressure tungsten halogen lamps	10
Annex JA (informative) Comparison table between JIS and corresponding International Standard	11

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 8105-2-9: 2005** is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or the utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or the utility model right.

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

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of IEC 60598-2-9 published in 1987 and its Amendment 1 (1993) with some modifications of the technical contents. The said amendment has been compiled in this Standard.

The portions given dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. 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.

9.1 Scope

This Standard specifies requirements for photo and film luminaires (non-professional) (hereafter referred to as “luminaires”) for use with tungsten filament lamps on supply voltages not exceeding 250 V, including low-pressure tungsten halogen lamps complying with unique lamp designation.

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

IEC 60598-2-9 : 1987 *Luminaires. Part 2 : Particular requirements. Section Nine — Photo and film luminaires (non-professional)* and Amendment 1 : 1993 (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.

9.1A 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 3662-5 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V — Part 5 : Flexible cables (cords)*

NOTE : Corresponding International Standard : IEC 60227-5 *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V — Part 5 : Flexible cables (cords)* (MOD)

JIS C 7527 *Tungsten halogen lamps (non-vehicle) — Performance specifications*

NOTE : Corresponding International Standard : IEC 60357 : 1982 *Tungsten halogen lamps (non-vehicle)* (MOD)

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

NOTE : Corresponding International Standard : IEC 60061-2 *Lamp caps and holders together with gauges for the control of interchangeability and safety. Part 2 : Lampholders*

JIS C 7709-3 *Lamp caps and holders together with gauges for the control of interchangeability and safety — Part 3 : Gauges*

NOTE : Corresponding International Standard : IEC 60061-3 *Lamp caps and holders together with gauges for the control of interchangeability and safety. Part 3 : Gauges*

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

JIS C 8280 *Edison screw lampholders*

JIS P 0001 *Paper, board and pulp — Vocabulary*

9.2 General test requirements

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

9.3 Terms and definitions

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

9.3.1 rated maximum operating time and rated minimum resting time

the maximum operating time and minimum resting time between operating periods at rated voltage assigned to the luminaire by the manufacturer

9.3.2 low-pressure tungsten halogen lamp

tungsten halogen lamp having a working gas pressure equal to or below 10^5 Pa

NOTE 1 In order to ensure non-interchangeability, the low-pressure lamps are longer than tungsten halogen photographic lamps are longer than tungsten halogen photographic lamps having a working gas pressure above 10^5 Pa.

NOTE 2 The packaging of low-pressure lamps is provided with a marking indicating clearly that it contains one or more low-pressure tungsten halogen lamps.

9.4 Classification of luminaires

Luminaires shall be classified in accordance with the provisions of Section 2 of JIS C 8105-1. However, for Class 0 luminaires, only the indoor use type luminaires with a