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Non-integrated linear LED lamps with GX16t-5 cap for general lighting services—Part 2: Performance requirements

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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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Contents

Page

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment 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.

It should be noted that being in conformance with this Standard may come under the use of the patent rights held by the following:

Panasonic Corporation (hereafter abbreviated as P)
Oaza Kadoma 1048, Kadoma-shi, Osaka-hu

Toshiba Lighting and Technology Corporation (hereafter abbreviated as T)
Hunakoshi-cho 1-201-1, Yokosuka-shi, Kanagawa-ken

— Power supply device for lighting, and luminaire 2011-07-29 Patent number 4788400: P

— Straight tube LED lamp and lamp socket used for it, and lighting fixture for straight tube LED lamp using them 2011-11-11 Patent number 4862102: P, T

— Straight tube LED lamp and lamp socket used for it, as well as lighting fixture for straight tube LED lamp using them 2011-11-11 Patent number 4862103: P, T

— LED lamp and lighting fixture 2011-11-18 Patent number: 4866975: P, T

— Straight tube lamp, socket, and lighting system 2012-02-03 Patent number 4915603: P, T

— Illumination apparatus 2012-07-27 Patent number 5046067: T

— Illumination apparatus 2012-07-27 Patent number 5046068: T

— LED driving device, lighting system, and luminaire (patent being applied for) Unexamined patent application publication number 2010-055824: P

— LED lamp and lighting fixture (patent being applied for) Unexamined patent application publication number 2012-009379: P, T

— LED lighting device (patent being applied for) Unexamined patent application publication number 2012-009391: P, T

— Straight tube LED lamp and lamp socket used for it (patent being applied for) Unexamined patent application publication number 2012-009392: P, T

— Lighting system (patent being applied for) Unexamined patent application publication number 2012-009397: P, T

— Straight tube type lamp, socket, and lighting system (patent being applied for) Unexamined patent application publication number 2012-009399: P, T

— LED lamp system (patent being applied for) Unexamined patent application publication number 2012-009400: P, T

— Power supply unit for LED lamp and LED lamp system (patent being applied for) Unexamined patent application publication number 2012-028222: P, T

The relevant holders of the above-mentioned patent rights have indicated an intention of granting license to anyone under the nondiscriminatory and reasonable conditions, except to the other relevant holders of the patent rights related to this Standard who will not grant their licenses under the same conditions.

It should be noted that following this Standard does not always refer to granting a free license.

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The "patent rights" as mentioned here include patent rights, applications for a patent after opening to the public or utility model rights.

JIS C 8159 series consists of the following 2 parts under the general title "*Non-integrated linear LED lamps with GX16t-5 cap for general lighting services*":

Part 1: Safety specifications

Part 2: Performance requirements

Non-integrated linear LED lamps with GX16t-5 cap for general lighting services— Part 2: Performance requirements

Introduction

This Japanese Industrial Standard has been established in order to intend securing the performance of a non-integrated linear LED lamp with GX16t-5 cap for general lighting services that is a type of non-integrated "light emitting diode (LED) lamp"

The LED lamp covered by this Standard is a LED lamp into which the LED module part without a cap and controlgear is integrated so that it cannot be removed from the LED lamp.

1 Scope

This Standard specifies the performance requirements of non-integrated linear LED lamps with GX16t-5 cap for general lighting services (hereafter referred to as "linear LED lamp").

This Standard is applicable to the following linear LED lamps:

— Rated wattage: 60 W or less

— Lamp voltage: 120 V ripple free d.c. or less

— Cap: GX16t-5

This Standard is not applicable to linear LED lamps that use the caps for a fluorescent lamp specified in related standards (**JIS C 7617-1**, **JIS C 7618-1**, etc.) and integrate a controlgear. The linear LED lamps covered by this Standard are applicable to Class I luminaire and Class II luminaire which are the insulating classes of luminaire defined in **JIS C 8105-1**.

NOTE 1 The information for the design of a linear LED lamp controlgear is described in Annex G, the information for the design of a linear LED lamp luminaire in Annex H and the information for the linear LED lamp attached to the luminaire intended for a waterproof performance in Annex I.

NOTE 2 "120 V ripple free d.c." means a d.c. system of 120 V d.c. of maximum peak voltage 140 V or less based on the definition of the sine wave ripple component of not more than 10 % (effective value).

2 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 B 7516 *Metal rules*

JIS B 7601 *Trip balances*