

EC-Declaration of Conformity



Document number: 2013 / ZCI-2886841-DOC-00
Manufacturer or representative: OSRAM GmbH
Address: Marcel-Breuer-Str. 6
80807 München
Germany
Brand name or trade mark: OSRAM
Product type: LED module
Product designation: LS_LL05CA2
 See attached list

The designated product(s) is (are) in conformity with the provisions of the following European Directives.

- | | | |
|-------------------------------------|--------------------------------------|--|
| <input type="checkbox"/> | 2006/95/EC
and amendments | Directive of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits |
| <input checked="" type="checkbox"/> | 2004/108/EC
and amendments | Directive of the European Parliament and of the Council of 15 September 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility |
| <input checked="" type="checkbox"/> | 2009/125/EC
and amendments | Directive of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products |
| <input type="checkbox"/> | 244/2009
and amendments | Commission Regulation (EC) implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for non-directional household lamps |
| <input type="checkbox"/> | 245/2009
and amendments | Commission Regulation (EC) implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC of the European Parliament and of the Council |
| <input checked="" type="checkbox"/> | 1194/2012
and amendments | Commission Regulation (EU) No 1194/2012 of 12 December 2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment |
| <input checked="" type="checkbox"/> | 2011/65/EU
and amendments | Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment |
| <input type="checkbox"/> | | |

Further information regarding compliance with these Directives is given in the **annex** which constitutes a part of this declaration.

Last two digits of the year in which the CE marking was affixed: 13

Place and date of signatures: 24.09.2013

Signatures: signed Guenther Casper
Quality Management

LE QM LA
Mr. Schemmel
Schemmel
LAB Manager

Names: Guenther Casper

Bernhard Schemmel

This declaration of conformity is issued under the sole responsibility of the manufacturer or representative. It certifies compliance with the indicated Directives, but implies no warranty of properties.

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Annex

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The conformity of the designated product(s) with the provisions of the European Directive **2006/95/EC** is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- EN 60155:** 1995 + A1:1995 + A2:2007 Glow-starters for fluorescent lamps
- EN 60432-1:** 2000 + A1:2005 + A2:2012 Incandescent lamps — Safety specifications — Part 1: Tungsten filament lamps for domestic and similar general lighting purposes
- EN 60432-2:** 2000 + A1:2005 + A2:2012 Incandescent lamps — Safety specifications — Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes
- EN 60432-3:** 2013 Incandescent lamps — Safety specifications — Part 3: Tungsten halogen lamps (non-vehicle)
- EN 60598-1:** 2008 + A11:2009 Luminaires — Part 1: General requirements and tests
- EN 60598-2-1:** 1989 Luminaires — Part 2-1: Particular requirements — Fixed general purpose luminaires
- EN 60598-2-2:** 2012 Luminaires — Part 2-2: Particular requirements — Recessed luminaires
- EN 60598-2-3:** 2003 + A1:2011 Luminaires — Part 2-3: Particular requirements — Luminaires for road and street lighting
- EN 60598-2-4:** 1997 Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires
- EN 60598-2-5:** 1998 Luminaires — Part 2-5: Particular requirements — Floodlights
- EN 60598-2-6:** 1994 + A1:1997 Luminaires — Part 2-6: Particular requirements — Luminaires with built-in transformers for filament lamps
- EN 60598-2-7:** 1989 + A2:1996 + A13:1997 Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use
- EN 60598-2-8:** 2013 Luminaires — Part 2-8 : Particular requirements — Handlamps
- EN 60598-2-10:** 2003 Luminaires — Part 2-10: Particular requirements — Portable luminaires for children
- EN 60598-2-12:** 2013 Luminaires — Part 2-12: Particular requirements — Mains socket-outlet mounted nightlights
- EN 60598-2-13:** 2006 + A1:2012 Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires
- EN 60598-2-20:** 2010 Luminaires — Part 2-20: Particular requirements — Lighting chains
- EN 60598-2-22:** 1998 + A1:2003 + A2:2008 Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting
- EN 60968:** 2013 Self-ballasted lamps for general lighting services — Safety requirements
- EN 61195:** 1999 + A1:2013 Double-capped fluorescent lamps — Safety specifications

- EN 61199:** Single-capped fluorescent lamps — Safety specifications
2011 + A1:2013
- EN 61347-1:** Lamp controlgear — Part 1: General and safety requirements
2008 + A1:2011 + A2:2013
- EN 61347-2-1:** Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters)
2001 +
Corrigendum:2003 + A1:2006 +
Corrigendum:2006
Corrigendum:2010
- EN 61347-2-2:** Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down convertors for filament lamps
2012
- EN 61347-2-3:** Lamp controlgear — Part 2-3: Particular requirements for a. c. supplied electronic ballasts for fluorescent lamps
2011
- EN 61347-2-7:** Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
2012
- EN 61347-2-8:** Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps
2001 +
Corrigendum:2003 + A1:2006 +
Corrigendum:2010
- EN 61347-2-9:** Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)
2013
- EN 61347-2-10:** Lamp controlgear — Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)
2001 + A1:2009 +
Corrigendum:2010
- EN 61347-2-11:** Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
2001 +
Corrigendum:2002 +
Corrigendum:2010
- EN 61347-2-12:** Lamp controlgear — Part 2-12: Particular requirements for d. c. or a. c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)
2005 + A1:2010
- EN 61347-2-13:** Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules
2006
- EN 61549:** Miscellaneous lamps
2003 + A1:2005 +
A2:2010 + A3:2012
- EN 62031:** LED modules for general lighting — Safety specifications
2008 + A1:2013
- EN 62034:** Automatic test systems for battery powered emergency escape lighting
2012
- EN 62035:** Discharge lamps (excluding fluorescent lamps) — Safety specifications
2000 + A1:2003 +
A2:2012
- EN 62493:** Assessment of lighting equipment related to human exposure to electromagnetic fields
2010
- EN 62532:** Fluorescent induction lamps — Safety specifications
2011
- EN 62560:** Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications
2012
- EN 62776:** Double-capped LED lamps for general lighting services — Safety specifications
XXXX
- 34D/1064/CDV:** (as far as photobiological safety is concerned) together with
34A/PRESKO(ASZ)101 – Attachment 06 (for LED luminaires)
IEC 60598-1 ed 8: Luminaires - Part 1: General requirements and tests

- 34A/1554/CD:** LED modules for general lighting — Safety specifications (as far as photobiological safety)
- IEC 60432-2:** (as far as photobiological safety is concerned) for Self-ballasted LED-lamps, by A2 :2012 voltage > 50V – Safety specifications
- 34A/1536/CDV:** (as far as photobiological safety is concerned) for Double capped LED lamps for general lighting services –Safety specifications
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The conformity of the designated product(s) with the provisions of the European Directive **2004/108/EC** is given by the compliance with the following European Standard(s) or other specifications. If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- EN 55015:** Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
2006 + A1:2007
+ A2:2009
- EN 61000-3-2:** Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
2006 + A1:2009
+ A2:2009
- EN 61000-3-3:** Electromagnetic compatibility (EMC) — Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subjected to conditional connection
2008
- EN 61547:** Equipment for general lighting purposes — EMC immunity requirements
2009
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Attached list

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LF05CA2 (Test Report: ZRD 2886016 000 00, family code: 10393512)