

EC-Declaration of Conformity



Document number: 2012 / AM_02

1/5

Manufacturer or representative: OSRAM AG

Address: Hellabrunner Straße 1
81543 München
Germany

Brand name or trade mark: OSRAM

Product type: Luminaire Application for AM

Product designation: ONYX Copilot

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"/> | 2009/19/EC
and amendments | Commission Directive 2009/19/EC of 12 March 2009 amending, for the purposes of its adaptation to technical progress, Council Directive 72/245/EEC relating to the radio interference (electromagnetic compatibility) of vehicles |
| <input 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"/> | 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 |

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: 12

Place and date of signatures: München, 18.09.2012

Signatures:

Quality Manager

LAB Manager

Names: Jörn Dierks

Bernhard Schemmel

This declaration of conformity is issued under the sole responsibility of the manufacturer. 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). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- | | | |
|--------------------------|---|---|
| <input type="checkbox"/> | EN 61347-1:
2008 + A1:2011 | Lamp controlgear — Part 1: General and safety requirements |
| <input type="checkbox"/> | EN 61347-2-1:
2001 +
Corrigendum:2003 +
A1:2006 +
Corrigendum:2006
Corrigendum:2010 | Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters) |
| <input type="checkbox"/> | EN 61347-2-2:
2012 | Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down convertors for filament lamps |
| <input type="checkbox"/> | EN 61347-2-9:
2001 +
Corrigendum:2003 +
A1:2003 + A2:2006 +
Corrigendum:2010 | Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps) |
| <input type="checkbox"/> | EN 61347-2-10:
2001 + A1:2009 +
Corrigendum:2010 | Lamp controlgear — Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) |
| <input type="checkbox"/> | EN 61347-2-11:
2001 +
Corrigendum:2002 +
Corrigendum:2010 | Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires |
| <input type="checkbox"/> | EN 61347-2-12:
2005 + A1:2010 | Lamp controlgear — Part 2-12: Particular requirements for d. c. or a. c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps) |
| <input type="checkbox"/> | EN 61347-2-13:
2006 +
Corrigendum:2010 | Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules |
| <input type="checkbox"/> | EN 61549:
2003 + A1:2005 +
A2:2010 | Miscellaneous lamps |
| <input type="checkbox"/> | EN 62031:
2008 | LED modules for general lighting — Safety specifications |
| <input type="checkbox"/> | EN 62034:
2006 | Automatic test systems for battery powered emergency escape lighting |
| <input type="checkbox"/> | EN 62035:
2000 + A1:2003 | Discharge lamps (excluding fluorescent lamps) — Safety specifications |
| <input type="checkbox"/> | EN 62471:
2008 | Photobiological safety of lamps and lamp systems |
| <input type="checkbox"/> | IEC/TR 62471-2:
2009 | Photobiological safety of lamps and lamp systems — Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety |
| <input type="checkbox"/> | EN 62560:
XXXX | Self-ballasted LED-lamps for general lighting services by voltage > 50 V — 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). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- | | | |
|-------------------------------------|---|--|
| <input checked="" type="checkbox"/> | EN 55015:
2006 + A1:2007
+ A2:2009 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment |
| <input checked="" type="checkbox"/> | EN 55022:
2006 + A1:2007 | Limits and methods of measurement of radio disturbance characteristics of information technology equipment |
| <input type="checkbox"/> | EN 61000-3-2:
2006 + A1:2009
+ A2:2009 | Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) |
| <input type="checkbox"/> | EN 61000-3-3:
2008 | 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 |
| <input checked="" type="checkbox"/> | EN 61547:
2009 +
Corr.:2010 | Equipment for general lighting purposes — EMC immunity requirements |

The conformity of the designated product(s) with the provisions of the European Directive **2009/19/EC** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- | | | |
|-------------------------------------|---|---|
| <input checked="" type="checkbox"/> | EN 50498:
2010 | Electromagnetic compatibility (EMC) – Product family standard for aftermarket electronic equipment in vehicles; German version EN 50498: 2010 |
| <input checked="" type="checkbox"/> | CISPR 25
Edition 3.0:
2008-03 | Radio disturbance characteristics for the protection of receivers used on board vehicles, boats and on devices – Limits and methods of measurements |
| <input checked="" type="checkbox"/> | ISO 7637-2:
2004-06-15 | Road vehicles – Electrical disturbance by conduction and coupling – Part 2: Vehicles with nominal 12V or 24V supply voltage – Electrical transient conduction along supply lines only – Test level U _s |
| <input type="checkbox"/> | | |

Remark: VDE EMC test report no.:

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The conformity of the designated product(s) with the provisions of the European Directive **2009/125/EC** is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

- EN 50294:**
1998 + A1:2001
+ A2:2003 Measurement method of total input power of ballast-lamp circuits

- EN 62442-1:**
2011 Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent lamps -
Method of measurement to determine the total input power of controlgear circuits and
the efficiency of the controlgear

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ONYX Copilot L

ONYX Copilot M

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List of conformity documents (LOCD)

Document-No.: 2012 / AM_02

Month/Year: 09/2012

Model	Basic code tested	EMC testreport / certificate	Safety testreport / (ENEC) certificate	CB certificate
ONYX Copilot L	AA39077			---
ONYX Copilot M	AA39079			---
Remarks:				

for CE internal use only