

Document number: 2021 / 9C1-4069861-EN-00

Manufacturer or representative: LEDVANCE GmbH

Address: Parkring 29-33

85748 Garching

Germany

Brand name or trade mark: **OSRAM** 

Product type: Double-capped LED

LEDTUBE T8 EM MS series Product designation:

See attached list

The designated product(s) is (are) in conformity with the relevant Union harmonisation legislation:

2014/35/EU Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on and amendments the market of electrical equipment designed for use within certain voltage limits

2014/30/EU Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic and amendments

compatibility

 $\boxtimes$ 2009/125/EC Directive of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energyand amendments, incl.

related products

 $\boxtimes$ 2019/2020 Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive

and amendments 2009/125/EC of the European Parliament and of the Council

 $\boxtimes$ 2019/2015 Commission Delegated Regulation (EU) 2019/2015 of 11 March 2019 supplementing

Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard and amendments to energy labelling of light sources and repealing Commission Delegated Regulation

(EU) No 874/2012

Directive of the European Parliament and of the Council of 8 June 2011 on the  $\boxtimes$ 2011/65/EU

restriction of the use of certain hazardous substances in electrical and electronic and amendments

equipment

Directive of the European Parliament and of the Council of 16 April 2014 on the X 2014/53EU

harmonisation of the laws of the Member States relating to the making available on and amendments

the market of radio equipment and repealing Directive 1999/5/EC

Last two digits of the year in which the CE marking was affixed: 21

Place and date of signatures: Jul.28,2021

Signatures:

Quality Management

Quality Assurance

Names: Scheyer, Yannick Shufen, Chen

Customer service contact: LEDVANCE GmbH, Steinerne Furt 62, 86167 Augsburg, Deutschland

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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The conformity of the designated product(s) with the provisions of the European Low Voltage Directive 2014/35/EU 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.

<b>EN 60155:</b> 1995 + A1:1995 + A2:2007	Glow-starters for fluorescent lamps
<b>EN 60432-1:</b> 2000 + A1:2005 + A2:2012	Incandescent lamps — Safety specifications — Part 1: Tungsten filament lamps for domestic and similar general lighting purposes
<b>EN 60432-2:</b> 2000 + A1:2005 + A2:2012	Incandescent lamps — Safety specifications — Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes
<b>EN 60432-3:</b> 2013	Incandescent lamps — Safety specifications — Part 3: Tungsten halogen lamps (non-vehicle)
<b>EN 60598-1:</b> 2015 + A1:2018	Luminaires — Part 1: General requirements and tests
<b>EN 60598-2-1:</b> 1989	Luminaires — Part 2-1: Particular requirements — Fixed general purpose luminaires
<b>EN 60598-2-2</b> : 2012	Luminaires — Part 2-2: Particular requirements — Recessed luminaires
<b>EN 60598-2-3:</b> 2003 + A1:2011	$\label{lem:Luminaires} \mbox{$-$ Part 2-3: Particular requirements $-$ Luminaires for road and street lighting}$
<b>EN 60598-2-4:</b> 2018	Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires
<b>EN 60598-2-5:</b> 2015	Luminaires — Part 2-5: Particular requirements — Floodlights
<b>EN 60598-2-6:</b> 1994 + A1:1997	Luminaires — Part 2-6: Particular requirements — Luminaires with built-in transformers for filament lamps
<b>EN 60598-2-7:</b> 1989 + A2:1996 + A13:1997	Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use
<b>EN 60598-2-8:</b> 2013	Luminaires — Part 2-8 : Particular requirements — Handlamps
<b>EN 60598-2-10:</b> 2003	Luminaires — Part 2-10: Particular requirements — Portable luminaires for children
<b>EN 60598-2-12:</b> 2013	$\label{lem:Luminaires} \mbox{$-$ Part 2-12: Particular requirements $-$ Mains socket-outlet mounted nightlights}$
<b>EN 60598-2-13:</b> 2006 + A1 2012	Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires
<b>EN 60598-2-20:</b> 2015	Luminaires — Part 2-20: Particular requirements — Lighting chains
<b>EN 60598-2-22:</b> 2014	Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting
<b>EN 60598-2-24:</b> 2013	Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures
EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013	Information technology equipment – Safety – Part 1: General requirements
<b>EN 60968:</b> 2015	Self-ballasted lamps for general lighting services — Safety requirements
<b>EN 61195:</b> 1999 + A1:2013 + A2:2015	Double-capped fluorescent lamps — Safety specifications

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<b>EN 61199:</b> 2011 + A2:2015	Single-capped fluorescent lamps — Safety specifications
<b>EN 61347-1:</b> 2015	Lamp controlgear — Part 1: General and safety requirements
<b>EN 61347-2-1:</b> 2001 + A1:2006 + A2:2014	Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters)
<b>EN 61347-2-2</b> : 2012	Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down convertors for filament lamps
<b>EN 61347-2-3:</b> 2011	Lamp controlgear — Part 2-3: Particular requirements for a. c. and/or d. c. supplied electronic ballasts for fluorescent lamps
<b>EN 61347-2-7:</b> 2012	Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
<b>EN 61347-2-8:</b> 2001 + A1:2006	Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps
<b>EN 61347-2-9:</b> 2013	Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)
<b>EN 61347-2-10:</b> 2001 + A1:2009	Lamp controlgear — Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)
<b>EN 61347-2-11</b> : 2001	Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
<b>EN 61347-2-12:</b> 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)
<b>EN 61347-2-13</b> : 2014	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules
<b>EN 61549:</b> 2003 + A1:2005 + A2:2010 + A3:2012	Miscellaneous lamps
<b>EN 62031:</b> 2008 + A1:2013 + A2:2015	LED modules for general lighting — Safety specifications
<b>EN 62034:</b> 2012	Automatic test systems for battery powered emergency escape lighting
<b>EN 62035</b> : 2014	Discharge lamps (excluding fluorescent lamps) — Safety specifications
EN 62368-1: 2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements

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The conformity of the designated product(s) with the provisions of the European **Low Voltage Directive 2014/35/EU** 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.

<b>EN 62493:</b> 2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
<b>EN 62532:</b> 2011	Fluorescent induction lamps — Safety specifications
<b>EN 62560:</b> 2012 + A1:2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications
<b>EN 62838:</b> 2016	LEDsi lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c Safety specifications Consumer goods with a voltage below 50 V are dealt with by the General Product Safety Directive (GPSD) 2001/95/EC
<b>EN 60669-2-1:</b> 2004 + A1:2009 + A12:2010	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches (IEC 60669-2-1:2002, modified) / Corrected and reprinted in 2007-12
<b>EN 62471:</b> 2008	Photobiological safety of lamps and lamp systems
<b>EN 62733:</b> 2015	Programmable components in electronic lamp controlgear
<b>EN 62776:</b> 2015	Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications

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The conformity of the designated product(s) with the provisions of the European **EMC Directive**, **2014/30/EU** 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.

<b>EN 55015:</b> 2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
<b>EN 61000-3-2:</b> 2014	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
<b>EN 61000-3-3:</b> 2013	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
<b>EN 61547:</b> 2009	Equipment for general lighting purposes — EMC immunity requirements
EN 50498: 2010	Electromagnetic compatibility (EMC) –
	Product family standard for aftermarket electronic equipment in vehicles

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The conformity of the designated product(s) with the provisions of the European eco design (ERP) 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 62442-1: Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent 2018

lamps - Method of measurement to determine the total input power of controlgear

circuits and the efficiency of the controlgear

EN IEC 62442-2: Energy performance of lamp controlgear -

2019 Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent

lamps) - Method of measurement to determine the efficiency of the controlgear

Energy performance of lamp controlgear -EN IEC 62442-3:

Part 3: Controlgear for halogen lamps and LED modules - Method of 2019

measurement to determine the efficiency of the controlgear

#### **EU Declaration of Conformity Annex**

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The conformity of the designated product(s) with the provisions of the European Directive 2011/65/EU (RoHS) 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.

$\boxtimes$	EN 50581:	Technical documentation for the assessment of electrical and electronic products
	LIT 0000 I.	

with respect to the restriction of hazardous substances 2012

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The conformity of the designated product(s) with the provisions of the European Radio Equipment Directive 2014/53EU is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies

applie	25	
	EN 300 328 V2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
	ETSI EN 300 440 V2.2.1	Short Range Devices (SRD); Radio equipment to be used in the 1GHz to 40GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
	ETSI EN 301 489-1 V2.2.3	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU
	ETSI EN 301 489-3 V2.1.1	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
	Draft ETSI EN 301 489-17 V3.2.0	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
	EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
	EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)
	EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
	<b>EN 62776:</b> 2015	Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications
	<b>EN 62493:</b> 2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
	<b>EN IEC 55015:</b> 2019 + A11:2020	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
	<b>EN IEC 61000-3-2:</b> 2019	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
	<b>EN 61000-3-3:</b> 2013 + A1:2019	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
$\boxtimes$	<b>EN 61547:</b> 2009	Equipment for general lighting purposes — EMC immunity requirements

# **EU Declaration of Conformity Attached list**

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#### Product list:

AC34972----LEDTUBE T8 EM MS 600 6.8W 840

AC34973----LEDTUBE T8 EM MS 1200 13.1W 840

AC34974----LEDTUBE T8 EM MS 1500 19.3W 840