

Document number:		2017 / 11 / 1D	
Manufacturer or representative:		Radium Lampenwerk GmbH	
Address	3:	Dr. Eugen-Kersting Str. 6 D-51688 Wipperfürth Germany	
Brand n	ame or trade mark:	Radium	
Product	type:	Halogen Lamps	
Product	designation:	Tungsten Halogen lamps	
		See attached list	
The desi	gnated 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 Fet harmonisation of the laws of the Member States relating to the member the market of electrical equipment designed for use within certain Official Journal of the EU L96, 29/03/2014, p. 357-374)	aking available on
	2014/30/EU	Directive of the European Parliament and of the Council of 26 Feb harmonisation of the laws of the Member States relating to electrompatibility; Official Journal of the EU L96, 29/03/2014, p. 79-106	omagnetic
	2009/125/EC and amendments	Directive of the European Parliament and of the Council of 21 Oct establishing a framework for the setting of ecodesign requirement related products	
\boxtimes	244/2009 and amendments	Commission Regulation (EC) implementing Directive 2005/32/EC Parliament and of the Council with regard to ecodesign requirement directional household lamps	
	245/2009 and amendments	Commission Regulation (EC) implementing Directive 2005/32/EC Parliament and of the Council with regard to ecodesign requirem lamps without integrated ballast, for high intensity discharge lam and luminaires able to operate such lamps, and repealing Directive European Parliament and of the Council	ents for fluorescent ps, and for ballasts
	1194/2012 and amendments	Commission Regulation (EU) No 1194/2012 of 12 December 2012 Directive 2009/125/EC of the European Parliament and of the Cou ecodesign requirements for directional lamps, light emitting diod equipment	ncil with regard to
\boxtimes	2011/65/EU and amendments	Directive of the European Parliament and of the Council of 8 June restriction of the use of certain hazardous substances in electrical equipment; Official Journal of the EU L174, 1/07/2011, p. 88-110	
	1999/5/EC and amendments	Directive of the European Parliament and of the Council of 9 Marc equipment and telecommunications terminal equipment and the r of their conformity (applicable until 2017-06-12)	
	2014/53EU	Directive of the European Parliament and of the Council of 16 Apr harmonisation of the laws of the Member States relating to the ma the market of radio equipment and repealing Directive 1999/5/EC 2016-06-13)	aking available on
		Official Journal of the 2015/ C226/ 07	
		h the CE marking was affixed: 97	
Place ar	nd date of signatures: Wip	40	
Signatur	res: Mullo,	rom & Mare	
	Quality Managen	ment Quality Assurance	
Names:	Michael Hülsema	ann Bernhard Kläser	

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.

Document number: 2017/11/1D

The conformity of the designated product(s) with the provisions of the European Low Voltage

Directive 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: 2015	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: 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 : 2014	Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting
EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013	Information technology equipment – Safety – Part 1: General requirements
EN 60968: 2013 + A11:2014	Self-ballasted lamps for general lighting services — Safety requirements
EN 61195: 1999 + A1:2013	Double-capped fluorescent lamps — Safety specifications

Document number: 2017/11/1D

The conformity of the designated product(s) with the provisions of the European Low Voltage Directive 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 61199: 2011 + A1:2013	Single-capped fluorescent lamps — Safety specifications
EN 61347-1: 2015	Lamp controlgear — Part 1: General and safety requirements
EN 61347-2-1: 2001 + Corr. 2003 + A1:2006 + Corr. 2006 + Corr. 2010 + A2:2014	Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters)
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
EN 61347-2-3: 2011 + Corr. 2011	Lamp controlgear — Part 2-3: Particular requirements for a. c. and/or d. c. supplied electronic ballasts for fluorescent lamps
EN 61347-2-7: 2012	Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
EN 61347-2-8: 2001 + Corrigendum: 2003+ A1:2006	Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps
+ Corrigendum:2010	
EN 61347-2-9: 2013	Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)
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)
EN 61347-2-11: 2001 + Corrigendum:2002 + Corrigendum:2010	Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
EN 61347-2-12: 2005 + A1:2010 + Corr.2010	Lamp controlgear — Part 2-12: Particular requirements for d. c. or a. c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)
EN 61347-2-13: 2014	Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules
EN 61549: 2003 + A1:2005 + A2:2010 + A3:2012	Miscellaneous lamps
EN 62031: 2008 + A1:2013 + A2:2015	LED modules for general lighting — Safety specifications
EN 62034: 2012	Automatic test systems for battery powered emergency escape lighting
EN 62035: 2015-09	Discharge lamps (excluding fluorescent lamps) — Safety specifications
EN 62368-1: 2014 + AC: 2015	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Document number: 2017/11/1D

The conformity of the designated product(s) with the provisions of the European Low Voltage Directive Directive 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 62493: 2015	Assessment of lighting equipment related to human exposure to electromagnetic fields
	EN 62532: 2011	Fluorescent induction lamps — Safety specifications
	EN 62560: 2016-09	Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications
	EN 60669-2-1:	Switches for household and similar fixed electrical installations - Part 2-1:
	2004+A12009	Particular requirements - Electronic switches (IEC 60669-2-1:2002, modified Corrected and reprinted in 2007-12
	EN 62471: 2008	Photobiological safety of lamps and lamp systems
	EN 62733: 2015	Programmable components in eletronic lamp controlgear
	EN 62776: 2015	Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications
	2008 EN 62733: 2015 EN 62776:	Programmable components in elctronic lamp controlgear Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safe

Document number: 2017 / 11 / 1D

The conformity of the designated product(s) with the provisions of the European EMC Directive 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: 2013 + A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
	EN 61000-3-2: 2014	Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
	EN 61000-3-3: 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
	EN 61547: 2009	Equipment for general lighting purposes — EMC immunity requirements
	EN 50498: 2010	Electromagnetic compatibility (EMC) -
		Product family standard for aftermarket electronic equipment in vehicles

Document number: 2017 / 11 / 1D

The conformity of the designated product(s) with the provisions of the European eco design (ERP) Directive 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: Measurement method of total input power of ballast-lamp circuits 1998 + A1:2001 + A2:2003 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 Energy performance of lamp controlgear -EN 62442-2: 2014 Part 2: Controlgear for high intensity discharge lamps (excluding lamps) - Method of measurement to determine the efficiency of the controlgear Energy performance of lamp controlgear -EN 62442-3: Part 3: Controlgear for halogen lamps and LED modules - Method of 2014 measurement to determine the efficiency of the controlgear

EU Declaration of Conformity Annex

Document number: 2017 / 11 / 1D

The conformity of the designated product(s) with the provisions of the European Directive **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.

EN 50581: 2013-02

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Document number: 2017 / 11 / 1D

The o	Directive is given by the	ted product(s) with the provisions of the European radio equipment ne compliance with the following European Standard(s). If not adicated the edition/amendment as referenced below applies.
	ETSI EN 300 220-1 V2.1.1:	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods
	ETSI EN 300 220-2 V2.1.2:	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
	ETSI EN 301 489-1 V1.8.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
	ETSI EN 301 489-3 V1.4.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); 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 40 GHz
	EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013	Information technology equipment – Safety – Part 1: General requirements
	EN 60825-1: 2014	Safety of laser products - Part 1: Equipment classification and requirements (IEC 60825-1:2014) / Endorsement notice
	EN 60065: 2014	Audio, video and similar electronic apparatus - Safety requirements
	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	$\label{local-part} \mbox{Incandescent lamps} - \mbox{Safety specifications} - \mbox{Part 3: Tungsten halogen lamps} \\ \mbox{(non-vehicle)}$
	EN 60598-1 : 2015	Luminaires — Part 1: General requirements and tests
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EN 60968: 2013 + A11:2014	Self-ballasted lamps for general lighting services — Safety requirements
EN 61195: 1999 + A1:2013	Double-capped fluorescent lamps — Safety specifications
EN 61199: 2011 + A1:2013	Single-capped fluorescent lamps — Safety specifications
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		Product family standard for aftermarket electronic equipment in vehicles

EU Declaration of Conformity Attached list

Document number: 2017 / 11 / 1D

RJH-TS	48W/230/C/XE/R7S
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RJH-TS 80W/230/C/XE/R7S

RJH-TS 120W/230/C/XE/R7S

RJH-TSK 120W/230/C/XE/R7S

RJH-TS 160W/230/C/XE/R7S

RJH-TS 230W/230/C/XE/R7S

RJH-TS 400W/230/C/XE/R7S

RJL-TS 400W/42/C/R7S

10/10