

EU Declaration of Conformity

Annex

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

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.

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

EU Declaration of Conformity

Annex

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

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.

<input type="checkbox"/>	EN 61199: 2011 + A2:2015	Single-capped fluorescent lamps — Safety specifications
<input type="checkbox"/>	EN 61347-1: 2015	Lamp controlgear — Part 1: General and safety requirements
<input type="checkbox"/>	EN 61347-2-1: 2001 + A1:2006 + A2:2014	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 61347-2-3: 2011	Lamp controlgear — Part 2-3: Particular requirements for a. c. and/or d. c. supplied electronic ballasts for fluorescent lamps
<input type="checkbox"/>	EN 61347-2-7: 2012	Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
<input type="checkbox"/>	EN 61347-2-8: 2001 + A1:2006	Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps
<input type="checkbox"/>	EN 61347-2-9: 2013	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	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	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: 2014	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 + A3:2012	Miscellaneous lamps
<input type="checkbox"/>	EN 62031: 2008 + A1:2013 + A2:2015	LED modules for general lighting — Safety specifications
<input type="checkbox"/>	EN 62034: 2012	Automatic test systems for battery powered emergency escape lighting
<input type="checkbox"/>	EN 62035: 2014	Discharge lamps (excluding fluorescent lamps) — Safety specifications
<input type="checkbox"/>	EN 62368-1: 2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements

EU Declaration of Conformity

Annex

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

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.

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | EN 62493:
2015 | Assessment of lighting equipment related to human exposure to electromagnetic fields |
| <input type="checkbox"/> | EN 62532:
2011 | Fluorescent induction lamps — Safety specifications |
| <input type="checkbox"/> | EN 62560:
2012 + A1:2015 | Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications |
| <input type="checkbox"/> | EN 62838:
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 |
| <input type="checkbox"/> | EN 60669-2-1:
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 |
| <input type="checkbox"/> | EN 62471:
2008 | Photobiological safety of lamps and lamp systems |
| <input type="checkbox"/> | EN 62733:
2015 | Programmable components in electronic lamp controlgear |
| <input type="checkbox"/> | EN 62776:
2015 | Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications |
| <input type="checkbox"/> | | |

EU Declaration of Conformity

Annex

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

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.

- | | | |
|--------------------------|------------------------------------|---|
| <input type="checkbox"/> | EN 55015:
2013 + A1:2015 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment |
| <input type="checkbox"/> | EN 61000-3-2:
2014 | 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:
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 |
| <input type="checkbox"/> | EN 61547:
2009 | Equipment for general lighting purposes — EMC immunity requirements |
| <input type="checkbox"/> | EN 50498: 2010 | Electromagnetic compatibility (EMC) –
Product family standard for aftermarket electronic equipment in vehicles |
| <input type="checkbox"/> | | |

EU Declaration of Conformity Annex

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

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:**
2018 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
- EN IEC 62442-2:**
2019 Energy performance of lamp controlgear –
Part 2: Controlgear for high intensity discharge lamps (excluding fluorescent lamps) – Method of measurement to determine the efficiency of the controlgear
- EN IEC 62442-3:**
2019 Energy performance of lamp controlgear –
Part 3: Controlgear for halogen lamps and LED modules – Method of measurement to determine the efficiency of the controlgear
-

EU Declaration of Conformity Annex

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

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.

- EN 50581:**
2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
-

EU Declaration of Conformity

Annex

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

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.

- | | | |
|-------------------------------------|--|---|
| <input type="checkbox"/> | 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 |
| <input checked="" type="checkbox"/> | 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 |
| <input checked="" type="checkbox"/> | 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 |
| <input checked="" type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input checked="" type="checkbox"/> | 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) |
| <input checked="" type="checkbox"/> | 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) |
| <input checked="" type="checkbox"/> | EN 61326-1: 2013 | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements |
| <input checked="" type="checkbox"/> | EN 62776: 2015 | Double-capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications |
| <input checked="" type="checkbox"/> | EN 62493: 2015 | Assessment of lighting equipment related to human exposure to electromagnetic fields |
| <input checked="" type="checkbox"/> | EN IEC 55015: 2019 + A11:2020 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment |
| <input checked="" type="checkbox"/> | EN IEC 61000-3-2: 2019 | Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) |
| <input checked="" type="checkbox"/> | EN 61000-3-3: 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 |
| <input checked="" type="checkbox"/> | EN 61547: 2009 | Equipment for general lighting purposes — EMC immunity requirements |

EU Declaration of Conformity Attached list

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

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