

# EC - DECLARATION OF CONFORMITY

# nordlux®

## Manufacturer:

Nordlux A/S  
Østre Havnegade 34  
DK 9000 Aalborg  
Denmark

Type.: 217005  
Model: Smart E27 G45 Filament  
Product type: Bulb Various  
See attached list:

### The designated type(s) is/are in conformity with the provisions of the following European Directives

- |                                     |   |  |
|-------------------------------------|---|--|
| <input checked="" type="checkbox"/> | <b>1194/2012</b><br>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"/> | <b>244/2009</b><br>and amendments<br>EU 2015/1428 | 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 checked="" type="checkbox"/> | <b>2019/2015</b><br>and amendments                | EU 2017/1369 of the European Parliament and of the Council of 4 July 2017 setting a framework for energy labelling of electrical lamps and luminaires  |
| <input checked="" type="checkbox"/> | <b>2014/35/EU</b><br>and amendments               | Directive of the European Parliament and of the Council of 23 february 2014 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.   |
| <input checked="" type="checkbox"/> | <b>2014/30/EU</b><br>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"/> | <b>2009/125/EU</b><br>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 checked="" type="checkbox"/> | <b>2011/65/EU</b><br>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 checked="" type="checkbox"/> | <b>2014/53/EU</b><br>and amendments               | Directive of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the member states relative to the making available on the market of radio equipment and repealing directive 1999/5/EU text with EEA relevance |
| <input checked="" type="checkbox"/> | <b>1907/2006/EU</b><br>and amendments             | EU regulation concerning the registration, evaluation, authorisation, and restriction of chemicals   |

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

Date of certificate 08 June 2021

  
**Hans Ole Nielsen**

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.

## Annex for 2014/35/EU

- |                                     |   |   |
|-------------------------------------|---|---|
| <input type="checkbox"/>            | EN 60432-1:<br>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:<br>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:<br>2013                       | Incandescent lamps — Safety specifications — Part 3: Tungsten halogen lamps (non-vehicle)   |
| <input checked="" type="checkbox"/> | EN 60598-1:<br>2015+A1 2018               | Luminaires — Part 1: General requirements and tests   |
| <input checked="" type="checkbox"/> | EN 60598-2-1:<br>1989                     | Luminaires — Part 2-1: Particular requirements — Fixed general purpose luminaires   |
| <input type="checkbox"/>            | EN 60598-2-2:<br>2012                     | Luminaires — Part 2-2: Particular requirements — Recessed luminaires  |
| <input type="checkbox"/>            | EN 60598-2-4:<br>2018                     | Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires  |
| <input type="checkbox"/>            | EN 60598-2-6:<br>1994+A1:1997             | Luminaires - Part 2: Luminaires with build in transformer for filament lamps  |
| <input type="checkbox"/>            | EN 60598-2-7:<br>1989+ A2:1996 + A13:1997 | Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use   |
| <input type="checkbox"/>            | EN 60598-2-13:<br>2006 +A2:2016           | Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires  |
| <input type="checkbox"/>            | EN 60598-2-20:<br>2015                    | Luminaires — Part 2-20: Particular requirements — Lighting chains   |
| <input type="checkbox"/>            | EN 60968:<br>2013                         | Self-ballasted lamps for general lighting services — Safety requirements  |
| <input checked="" type="checkbox"/> | EN 62368-1:<br>2014+A11:2017              | Audio/video, information and communication technology equipment. Safety requirements  |
| <input type="checkbox"/>            | EN 61347-1: 2015                          | Lamp controlgear — Part 1: General and safety requirements  |
| <input type="checkbox"/>            | EN 61347-2-3:<br>2011+CORR.2011           | Lamp controlgear — Part 2-3: Particular requirements for AC supplied electronic ballasts for fluorescent lamps  |
| <input checked="" type="checkbox"/> | EN 61347-2-13:<br>2014+A1:2017            | Lamp controlgear — Part 2-13: Particular requirements for DC or AC. supplied electronic controlgear for LED modules   |
| <input checked="" type="checkbox"/> | EN 62031:<br>2008 + A1:2013+A2:2015       | LED modules for general lighting — Safety specifications  |
| <input checked="" type="checkbox"/> | EN 62493:<br>2015                         | Assessment of lighting equipment related to human exposure to electromagnetic fields  |
| <input type="checkbox"/>            | EN 62560:<br>2012+A1:2015                 | Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications  |
| <input checked="" type="checkbox"/> | EN 62471<br>2008                          | (as far as photobiological safety is concerned) together with 34A/PRESCO(ASZ)101 - Attachment 06 (for LED luminaires) IEC 60598-1 ed 8: Luminaires - Part 1: General requirements and tests |
| <input type="checkbox"/>            | EN 62471-2<br>2009                        | Photobiological safety of lamps and lamp systems.   |
| <input type="checkbox"/>            | ZEK 01.4-08                               | Testing and validation of polycyclic aromatic (PAH) in the course of GS-mark certification  |
| <input type="checkbox"/>            | IEC/TR<br>62778:2014                      | Assessment of blue light hazard to light sources and luminaires   |

- EN 60598-2-6: Luminaire — Particular — Luminaires with build-in transformers for filament lamps  
1995
- EN 60950-1: Information technology equipment — Safety — General requirements  
2006 + A11:2009  
+ A1:2010 + A12:2011  
+ A2:2013

## Annex for 2014/30/EU

- EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  
2019+A11:2020
- EN 61000-3-2: Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current < 16 A per phase)  
2019
- 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  
2013+A1:2019
- EN 61547: Equipment for general lighting purposes — EMC immunity requirements  
2009
- EN 61000-4-2: Electrostatic discharge immunity test  
2009
- EN 61000-4-3: Radiated radio-frequency, electromagnetic field immunity test  
2006
- EN 61000-4-4: Electrical fast transient/burst immunity test  
2004+A1:2010
- EN 61000-4-5: Surge immunity test  
2006
- EN 61000-4-6: Immunity to conducted disturbances induced by radio frequency fields  
2009
- EN 61000-4-8: Power frequency magnetic field immunity test  
2005
- EN 61000-4-11: Voltage dips, short interruptions and voltage variations immunity tests  
2004
- EN 60570-2-1: Electrical supply track systems for luminaires  
2003+A1:2018
- EN 60884-2-2: Particular requirements for socket-outlets for appliances
- EN 62612: Self-ballasted LED lamps for general lighting services  
2013
- EN 60238: Edison screw lampholders  
2004+A1:2008+A2:2011:04
- EN 50525-2-11: Electric cables. Low voltage energy cables of rated voltages up to and including 450/750V (U0/U). Cables for general applications. Flexible cables with thermoplastic PVC insulation
- EN 301 489-1: Electromagnetic compatibility and radio spectrum matters (ERM) — Electromagnetic compatibility (EMC) standard for radio equipment and services — Part 1: Common technical requirements  
V2.2.3 (2019-11)
- EN 301 489-17: Electromagnetic compatibility and radio spectrum matters (ERM) — Electromagnetic compatibility (EMC) standard for radio equipment and services — Part 17: Specific conditions for broadband data transmission systems  
V3.2.2 (2019-12)  
Draft
- EN 300 328-17: Electromagnetic compatibility and radio spectrum matters (ERM) — Wideband transmission systems — Data transmission equipment operating in the 2,4 GHz harmonized en covering the essential requirements of article 3.2 of the R&TTE directive  
V2.2.2 (2019-07)

- EN 55032:2015 Electromagnetic compatibility of multimedia equipment. Emission Requirements
- EN 55024:2010+A1:2015 Information technology equipment. Immunity characteristics. Limits and methods of measurement

## Annex for 2014/53/EU

- EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 Information technology equipment safety — General requirements
- EN 301 489-1:V2.1.1 Electromagnetic compatibility and radion spectrum matters
- EN 301 489-17:V3.1.1 Electromagnetic compatibility and radion spectrum matters
- EN 300 328:V2.1.1 Electromagnetic compatibility and radion spectrum matters
- 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 (10Mhz to 300 Ghz)

## Annex for 2011/65/EU

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

## Annex for 244/2009/EU

- CIE 13.3:1995 Method of measuring and specifying colour rendering properties of light sources
- CIE 15:2004 Colorimetry, 3rd edition
- CIE 18.2:1983 The basis of physical photometry, 3rd edition
- CIE 84:1989 Measurement of luminous flux
- CIE 97:2005 Guide on the maintenance of indoor electric lighting systems, 2nd ed
- IEC 62612:2013 Corrigendum 1 - Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements

## Bluetooth Standard

- RF-PHY-.TS.5.1.1 To ensure interoperability between all Bluetooth low energy devices in the marketplace  
To verify that a basic level of system performance is guaranteed for all Bluetooth low energy products