

EC - DECLARATION OF CONFORMITY

nordlux®

Manufacturer:

Nordlux A/S
Østre Havnegade 34
DK 9000 Aalborg
Denmark

Type.: 201568
Model: Carina Smart Sq 3-K
Product type: Downlight
See attached list:

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



1194/2012
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



244/2009
and amendments
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



874/2012
and amendments

Supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of electrical lamps and luminaires



2014/35/EU
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.



2014/30/EU
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



2009/125/EU
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



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



2014/53/EU
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



1907/2006/EU
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.



Hans Ole Nielsen

Date of certificate 17 September 2020

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

- | | | |
|-------------------------------------|---|---|
| ☐ | 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+A1 2018 | 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 60598-2-4:
2018 | Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires |
| ☐ | EN 60598-2-6:
1994+A1:1997 | Luminaires - Part 2: Luminaires with build in transformer for filament lamps |
| ☐ | EN 60598-2-7:
1989+ A2:1996 + A13:1997 | Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use |
| ☐ | EN 60598-2-13:
2006 +A2:2016 | Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires |
| ☐ | EN 60598-2-20:
2015 | Luminaires — Part 2-20: Particular requirements — Lighting chains |
| ☐ | EN 60968:
2013 | Self-ballasted lamps for general lighting services — Safety requirements |
| ☐ | EN 62368-
1:2014+A11:2017 | Audio/video, information and communication technology equipment. Safety requirements |
| ☐ | EN 61347-1: 2015 | Lamp controlgear — Part 1: General and safety requirements |
| ☐ | EN 61347-2-3:
2011+CORR.2011 | Lamp controlgear — Part 2-3: Particular requirements for AC supplied electronic ballasts for fluorescent lamps |
| ☒ | EN 61347-2-
13:2014+A1:2017 | Lamp controlgear — Part 2-13: Particular requirements for DC or AC. supplied electronic controlgear for LED modules |
| ☒ | EN 62031:
2008 + A1:2013+A2:2015 | LED modules for general lighting — Safety specifications |
| ☒ | EN 62493:
2015 | Assessment of lighting equipment related to human exposure to electromagnetic fields |
| ☐ | EN 62560:
2012+A1:2015 | Self-ballasted LED-lamps for general lighting services by voltage > 50 V — Safety specifications |
| ☒ | EN 62471
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 |
| ☐ | EN 62471-2
2009 | Photobiological safety of lamps and lamp systems. |
| ☐ | ZEK 01.4-08 | Testing and validation of polycyclic aromatic (PAH) in the course of GS-mark certification |
| ☐ | IEC/TR
62778:2014 | Assessment of blue light hazard to light sources and luminaires |

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

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- ☒ 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 61000-4-2: 2009 Electrostatic discharge immunity test
- ☐ EN 61000-4-3: 2006 Radiated radio-frequency, electromagnetic field immunity test
- ☐ EN 61000-4-4: 2004+A1:2010 Electrical fast transient/burst immunity test
- ☐ EN 61000-4-5: 2006 Surge immunity test
- ☐ EN 61000-4-6: 2009 Immunity to conducted disturbances induced by radio frequency fields
- ☐ EN 61000-4-8: 2005 Power frequency magnetic field immunity test
- ☐ EN 61000-4-11: 2004 Voltage dips, short interruptions and voltage variations immunity tests
- ☐ EN 60570-2-1: 2003+A1:2018 Electrical supply track systems for luminaires
- ☐ EN 60884-2-2 Particular requirements for socket-outlets for appliances
- ☐ EN 62612: 2013 Self-ballasted LED lamps for general lighting services
- ☐ EN 60238: 2004+A1:2008+A2:2011:04 Edison screw lampholders
- ☐ 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: V1.9.2.(2011-09) Electromagnetic compatibility and radio spectrum matters (ERM) — Electromagnetic compatibility (EMC) standard for radio equipment and services — Part 1: Common technical requirements
- ☐ EN 301 489-17: V2.2.1.(2012-09) 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
- ☐ EN 300 328-17: V1.9.1.(2015-02) 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

- ☐ 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

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- ☐ 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

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