

EC - DECLARATION OF CONFORMITY

nordlux®

Manufacturer:

Nordlux A/S
Karlskøvej 8
9200 Aalborg SV
Denmark

Type.: 4683

Model: **Marina flatline**

Product type: LED fixture
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

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



245/2009
and amendments

Commission Regulation (EC) implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC of the European Parliament and of the Council



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

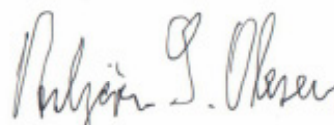
Directive of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the member states relative to the making available on the market of radio equipment and repealing directive 1999/5/EU text with EEA relevance



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.



Asbjørn S. Olesen

Date of certificate: 14 Mar. 2018

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

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|-------------------------------------|--|---|
| ☐ | 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 60598-2-4:
1997 | 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 + A1:2012 | 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 61195:
1999 + A1:2013 | Double-capped fluorescent lamps — Safety specifications |
| ☐ | 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: 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
2013+A1:2015
- ☒ EN 61000-3-2: Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current < 16 A per phase)
2014
- ☒ 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
- ☒ 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
- ☐ 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
V1.9.2.(2011-09)
- ☐ 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
V2.2.1.(2012-09)
- ☐ 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
V1.9.1.(2015-02)

Annex for 2014/53/EU

- ☐ **EN 60950-1:** Information technology equipment safety — General requirements
2006 + A11:2009 + A1:2010
+ A12:2011 + + A2:2013
- ☐ **EN 301 489-1:** Electromagnetic compatibility and radion spectrum matters
V1.9.2(2011-09)
- ☐ **EN 301 489-17:** Electromagnetic compatibility and radion spectrum matters
V2.2.1(2012-09)
- ☐ **EN 300 328:** Electromagnetic compatibility and radion spectrum matters
V1.9.1(2015-02)

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