

# EC - DECLARATION OF CONFORMITY

# nordlux®

## Manufacturer:

Nordlux A/S  
Karlskogavej 8  
9200 Aalborg SV  
Denmark

Type.: 9640

Model: Tilos Effect 1-Kit

Product type: Ground recessed spot

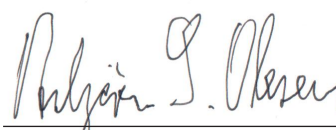
See attached list:

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

- |                                     |                                      |   |
|-------------------------------------|--------------------------------------|---|
| <input 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    | 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 type="checkbox"/>            | <b>245/2009</b><br>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 |
| <input checked="" type="checkbox"/> | <b>2006/95/EC</b><br>and amendments  | Directive of the European Parliament and of the Council of 12 December 2006 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>2004/108/EC</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/EC</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   |

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

Date of certificate: 25-Jul-2014



Asbjørn S. Olesen

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 2006/95/EC:

- 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: 2008 + A11:2009 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 60598-2-7: 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: 2010 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: 2008 + A1:2011 + A2:2013 Lamp controlgear — Part 1: General and safety requirements
- EN 61347-2-3: 2011 Lamp controlgear — Part 2-3: Particular requirements for AC supplied electronic ballasts for fluorescent lamps
- EN 61347-2-13: 2006 Lamp controlgear — Part 2-13: Particular requirements for DC or AC. supplied electronic controlgear for LED modules
- EN 62031: 2008 + A1:2013 LED modules for general lighting — Safety specifications
- EN 62493: 2010 Assessment of lighting equipment related to human exposure to electromagnetic fields
- EN 62560: 2012 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
- ZEK 01.4-08 Testing and validation of polycyclic aromatic (PAH) in the course of GS-mark certification

## Annex for 2004/108/EC:

- |                                     |                                       |  |
|-------------------------------------|---------------------------------------|--|
| <input checked="" type="checkbox"/> | EN 55015:<br>2006+A1+A2               | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  |
| <input checked="" type="checkbox"/> | EN 61000-3-2:<br>2006+A1:2009+A2:2009 | 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:<br>2008+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 checked="" type="checkbox"/> | EN 61547:<br>2009                     | Equipment for general lighting purposes — EMC immunity requirements  |
| <input type="checkbox"/>            | EN 61000-4-2:<br>2009                 | Electrostatic discharge immunity test  |
| <input type="checkbox"/>            | EN 61000-4-3:<br>2006                 | Radiated radio-frequency, electromagnetic field immunity test  |
| <input type="checkbox"/>            | EN 61000-4-4:<br>2004+A1:2010         | Electrical fast transient/burst immunity test  |
| <input type="checkbox"/>            | EN 61000-4-5:<br>2006                 | Surge immunity test  |
| <input type="checkbox"/>            | EN 61000-4-6:<br>2009                 | Immunity to conducted disturbances induced by radio frequency fields   |
| <input type="checkbox"/>            | EN 61000-4-8:<br>2005                 | Power frequency magnetic field immunity test   |
| <input type="checkbox"/>            | EN 61000-4-11:<br>2004                | Voltage dips, short interruptions and voltage variations immunity tests  |
| <input type="checkbox"/>            | EN 60570-2-1:<br>2003                 | Electrical supply track systems for luminaires   |
| <input type="checkbox"/>            | EN 60884-2-2                          | Particular requirements for socket-outlets for appliances  |
| <input type="checkbox"/>            | EN 62612:<br>2013                     | Self-ballasted LED lamps for general lighting services   |
| <input type="checkbox"/>            | EN 60238:<br>2004+A1:2008+A2:2011:04  | Edison screw lampholders   |
| <input type="checkbox"/>            | 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   |