EU Declaration of Conformity

Document number: 2016 / 20 / 1D
Manufacturer or representative: Radium Lampenwerk GmbH
Address: Dr. Eugen-Kersting-Str. 6
D-51688 Wipperfürth
Germany

Brand name or trade mark: Radium
Product type: Discharge lamp (excluding fluorescent lamps)
Product designation: Metal Halide Lamps
☒ See attached list

The designated product(s) is (are) in conformity with the relevant Union harmonisation legislation:


Last two digits of the year in which the CE marking was affixed: 97
Place and date of signatures: Wipperfürth, 24.05.2016

Signatures:

Quality Management
Michael Hüseemann

Quality Assurance
Bernhard Kläser

Customer service contact: Radium GmbH, Dr. Eugen-Kersting-Strasse 6, 51688 Wipperfürth, Deutschland

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.
The conformity of the designated product(s) with the provisions of the European Low Voltage Directive 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.

  Glow-starters for fluorescent lamps

  Incandescent lamps — Safety specifications — Part 1: Tungsten filament lamps for domestic and similar general lighting purposes

  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

  Luminaires — Part 2-3: Particular requirements — Luminaires for road and street lighting

☐ EN 60598-2-4: 1997
  Luminaires — Part 2-4: Particular requirements — Portable general purpose luminaires

☐ EN 60598-2-5: 1998
  Luminaires — Part 2-5: Particular requirements — Floodlights

  Luminaires — Part 2-6: Particular requirements — Luminaires with built-in transformers for filament lamps

  Luminaires — Part 2-7: Particular requirements — Portable luminaires for garden use

☐ EN 60598-2-8: 2013
  Luminaires — Part 2-8: Particular requirements — Handlamps

☐ EN 60598-2-10: 2003
  Luminaires — Part 2-10: Particular requirements — Portable luminaires for children

☐ EN 60598-2-12: 2013
  Luminaires — Part 2-12: Particular requirements — Mains socket-outlet mounted nightlights

  Luminaires — Part 2-13: Particular requirements — Ground recessed luminaires

☐ EN 60598-2-20: 2010
  Luminaires — Part 2-20: Particular requirements — Lighting chains

☐ EN 60598-2-22: 2014
  Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting

  Self-ballasted lamps for general lighting services — Safety requirements

  Double-capped fluorescent lamps — Safety specifications
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<table>
<thead>
<tr>
<th>Standard Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>EN 61199:</td>
<td>Single-capped fluorescent lamps — Safety specifications</td>
</tr>
<tr>
<td>2011 + A1:2013</td>
<td></td>
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<tr>
<td>EN 61347-1:</td>
<td>Lamp controlgear — Part 1: General and safety requirements</td>
</tr>
<tr>
<td>EN 61347-2-1:</td>
<td>Lamp controlgear — Part 2-1: Particular requirements for starting devices (other than glow starters)</td>
</tr>
<tr>
<td>EN 61347-2-2:</td>
<td>Lamp controlgear — Part 2-2: Particular requirements for d. c. or a. c. supplied electronic step-down converters for filament lamps</td>
</tr>
<tr>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>EN 61347-2-3:</td>
<td>Lamp controlgear — Part 2-3: Particular requirements for a. c. and/or d. c. supplied electronic ballasts for fluorescent lamps</td>
</tr>
<tr>
<td>EN 61347-2-7:</td>
<td>Lamp controlgear — Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)</td>
</tr>
<tr>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>EN 61347-2-8:</td>
<td>Lamp controlgear — Part 2-8: Particular requirements for ballasts for fluorescent lamps</td>
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<tr>
<td>EN 61347-2-9:</td>
<td>Lamp controlgear — Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)</td>
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<td>2013</td>
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<tr>
<td>EN 61347-2-10:</td>
<td>Lamp controlgear — Part 2-10: Particular requirements for electronic invertors and converters for high-frequency operation of cold start tubular discharge lamps (neon tubes)</td>
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<tr>
<td>EN 61347-2-11:</td>
<td>Lamp controlgear — Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires</td>
</tr>
<tr>
<td>2001 + Corrigendum:2002 + Corrigendum:2010</td>
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<tr>
<td>EN 61347-2-12:</td>
<td>Lamp controlgear — Part 2-12: Particular requirements for d. c. or a. c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)</td>
</tr>
<tr>
<td>EN 61347-2-13:</td>
<td>Lamp controlgear — Part 2-13: Particular requirements for d. c. or a. c. supplied electronic controlgear for LED modules</td>
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<tr>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>EN 61549:</td>
<td>Miscellaneous lamps</td>
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<tr>
<td>EN 62031:</td>
<td>LED modules for general lighting — Safety specifications</td>
</tr>
<tr>
<td>2008 + A1:2013</td>
<td></td>
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<tr>
<td>EN 62034:</td>
<td>Automatic test systems for battery powered emergency escape lighting</td>
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<tr>
<td>2012</td>
<td></td>
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<tr>
<td>EN 62035:</td>
<td>Discharge lamps (excluding fluorescent lamps) — Safety specifications</td>
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The conformity of the designated product(s) with the provisions of the European Low Voltage Directive Directive 2006/95/EC 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.

<table>
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<tr>
<th>Standard Number</th>
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<tbody>
<tr>
<td>EN 62493: 2010</td>
<td>Assessment of lighting equipment related to human exposure to electromagnetic fields</td>
</tr>
<tr>
<td>EN 62532: 2011</td>
<td>Fluorescent induction lamps — Safety specifications</td>
</tr>
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<td>EN 62560: 2012</td>
<td>Self-ballasted LED-lamps for general lighting services by voltage &gt; 50 V — Safety specifications</td>
</tr>
<tr>
<td>EN 62471: 2008</td>
<td>Photobiological safety of lamps and lamp systems</td>
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The conformity of the designated product(s) with the provisions of the European EMC Directive 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 55015: 2013
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 \( \leq 16 \) 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 \( \leq 16 \) A per phase and not subjected to conditional connection

[ ] EN 61547: 2009
Equipment for general lighting purposes — EMC immunity requirements

[ ] EN 50498: 2010
Electromagnetic compatibility (EMC) —
Product family standard for aftermarket electronic equipment in vehicles
The conformity of the designated product(s) with the provisions of the European 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.

<table>
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<tbody>
<tr>
<td>EN 62442-1: 2011</td>
<td>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</td>
</tr>
<tr>
<td>EN 62442-2: 2014</td>
<td>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</td>
</tr>
<tr>
<td>EN 62442-3: 2014</td>
<td>Energy performance of lamp controlgear – Part 3: Controlgear for halogen lamps and LED modules – Method of measurement to determine the efficiency of the controlgear</td>
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The conformity of the designated product(s) with the provisions of the European Directive 2011/65/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.

<table>
<thead>
<tr>
<th>EN 50581: 2012</th>
<th>Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances</th>
</tr>
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The conformity of the designated product(s) with the provisions of the European Directive 1999/5/EC is given by the compliance with the following European Standard(s). If not elsewhere/otherwise indicated the edition/amendment as referenced below applies.

<table>
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<tr>
<th>Standard Code</th>
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<tr>
<td>ETSI EN 300 220-1 V2.1.1</td>
<td>Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods</td>
</tr>
<tr>
<td>ETSI EN 300 220-2 V2.1.2</td>
<td>Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&amp;TTE Directive</td>
</tr>
<tr>
<td>ETSI EN 301 489-1 V1.8.1</td>
<td>Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements</td>
</tr>
<tr>
<td>ETSI EN 301 489-3 V1.4.1</td>
<td>Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz</td>
</tr>
</tbody>
</table>

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Attached list

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RCC-TS 70W/NDL/230/RX7S
RCC-TS 70W/WDL/230/RX7S
RCC-TS 150W/NDL/230/RX7S
RCC-TS 150W/WDL/230/RX7S
RCC-TC 20W/WDL/230/G8,5
RCC-TC 35W/NDL/230/G8,5
RCC-TC 35W/WDL/230/G8,5
RCC-TC 70W/NDL/230/G8,5
RCC-TC 70W/WDL/230/G8,5
RCC-T 35W/NDL/230/G12
RCC-T 35W/WDL/230/G12
RCC-T 70W/NDL/230/G12
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RCC-T 150W/NDL/230/G12
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RCC-TT/LR 70W/WDL/230/E27
RCC-TT/LR 150W/WDL/230/E40
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RCC-TT 150W/WDL/230/E40
RCC-E/P 35W/WDL/230/F/E27
RCC-E/P 70W/WDL/230/F/E27
RCC-E/P 100W/WDL/230/F/E27
RCC-E/P 150W/WDL/230/F/E27
HRI-TS 70W/D/230/XLN/RX7S
HRI-TS 70W/NDL/230/XLN/RX7S
HRI-TS 70W/WDL/230/XLN/RX7S
HRI-TS 150W/D/230/XLN/RX7S
HRI-TS 150W/NDL/230/XLN/RX7S
HRI-TS 150W/WDL/230/XLN/RX7S
HRI-TS 250W/D/PRO/230/FC2
HRI-TS 250W/NDL/230/FC2
HRI-TS 250W/WDL/230/FC2
HRI-TS 400W/D/PRO230/FC2
HRI-TS 400W/NDL/230/FC2
HRI-TS 2000W/D/S/HF/400/K12S
HRI-TS 1000W/D/S/PRO/230/K12S
HRI-TS 1000W/NDL/S/230/K12S
HRI-TS 2000W/D/S/400/K12S
HRI-TS 2000W/NDL/S/400/K12S

HRI-TS 2000W/D/S/DP/400
HRI-TS 2000W/N/L/400/K12S

HRI-TS 2000W/D/400/E40

HRI-T 70W/NDL/230/G12
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HRI-T 150W/NDL/230/G12
HRI-T 150W/WDL/230/G12

HRI-T 250W/D/PRO/230/E40
HRI-BT 400W/D/PRO/230/E40
HRI-T 1000W/D/230/E40
HRI-T 2000W/D/400/E40
HRI-T 2000W/N/I/400/E40
HRI-T 2000W/N/I/400/E40

HRI-T 400W/N/S/I/230/E40
HRI-T 2000W/N/230/E40

HRI-T 400W/NSC/S/230/E40
HRI-T 1000W/NSC/230/E40
HRI-T 2000W/NSC/400/E40

HRI-E/P 250W/D/230/E40
HRI-E/P 400W/D/230/E40

HRI-E 250W/D/PRO/230/E40
HRI-E 400W/D/PRO/230/E40

HRI-E 400W/N/S/I/230/E40

HRI-E 400W/NSC/S/230/C/E40
HRI-E 1000W/NSC/230/C/E40
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HRI-E 400W/NSC/S/230/F/E40
HRI-E 1000W/NSC/230/F/E40
HRI-T 250W/230/B/E40
HRI-T 400W/230/B/E40