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ENEC Certification Body registered under ID # 11.

Validity of ENEC Licences can be checked at [www.enec.com](http://www.enec.com)

# LICENCE

to use the European Mark



Licence No. **85175-025**

Date of issue: Wien, 2018 03 16

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licenceholder: **Thorn Lighting Ltd**  
Durhamgate, Spennymoor,  
County Durham  
DL16 6HL  
United Kingdom

Product: **Recessed luminaire**

Trade Mark: **THORN**

Series/Type: **IQ Wave**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

**Österreichischer Verband für Elektrotechnik**  
Head of Testing & Certification

Digitally signed by W. Martin  
Email=[w.martin@ove.at](mailto:w.martin@ove.at)  
Dipl.-Ing. W. Martin



## OVE Testing & Certification

Accredited by the Federal Ministry for Digital and Economic Affairs as Certification Body for products within the scope as given in the official decree and published under [www.bmdw.gv.at/akkreditierung](http://www.bmdw.gv.at/akkreditierung).



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p><b>Thorn Lighting Ltd</b> <b>Durhamgate, Spennymoor,</b> <b>County Durham</b> <b>DL16 6HL</b> <b>United Kingdom</b></p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p><b>Thorn Lighting Ltd</b> <b>Durhamgate, Spennymoor,</b> <b>County Durham</b> <b>DL16 6HL</b> <b>United Kingdom</b></p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p><b>Series IQ WAVE, see page 5.</b></p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p><b>TR 85175-0024-01 ECS</b></p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p><b>ÖVE/ÖNORM EN 60598-1:2015-11-01</b> <b>ÖVE/ÖNORM EN 60598-2-2:2012-11-01</b></p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p><b>EN 60598-1:2015</b> <b>EN 60598-2-2:2012</b></p>
<p><i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p>--</p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p><b>SMT-procedure</b></p>

<i>Nennspannung</i> <i>Rated voltage</i>	<b>220-240 V, 50/60 Hz</b>
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	<b>1x DSL 36 W</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED module LEM S64 (ILCOS: DSL)</b>
<i>Schutzgrad</i> <i>Degree of protection</i>	<b>IP20 (above ceiling parts) IP44 (below ceiling parts)</b>
<i>Netzanschluss</i> <i>Supply connection</i>	<b>Screwless terminals</b>
<i>Befestigungsfläche</i> <i>Supporting surface</i>	<b>Normally flammable surface. Suitable for covering with thermally insulating material.</b>
<i>Schutzklasse</i> <i>Class of protection</i>	<b>CI.I</b>
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	<b>Recessed ceiling mounting LED luminaire. Frame and end caps: polycarbonate. Diffuser: polycarbonate, aluminium designed heatsink. Body: highly reflective steel coffer Gear tray: pre-coated white steel. Suitable for lay-in with accessory suitable for pull-up into concealed grid and plasterboard ceilings.</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>Classified within limits of risk group 1 (low risk) according to EN 62471:2008.</b>

<i>Bauteil</i> <i>Component</i>	<i>Code</i>	<i>Hersteller</i> <i>Code Manufacturer</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
<i>LEC control gear</i>	<b>B</b>	<b>Tridonic</b>	<b>LCA 50W 100-400mA one4all Ip PRE</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LC 50W 100-400mA flex C Ip EXC</b>	<b>ENEC 11</b>
<i>LED module</i>	<b>B</b>	<b>Zumtobel</b>	<b>LEM S64 36W 400 830-...</b> <b>LEM S64 36W 400 840-...</b> <b>LEM S64 36W 400 865-...</b>	<b>ÖVE</b>
<i>Internal wiring</i>	<b>B</b>	<b>Leoni</b>	<b>S05G-U</b> <b>300/500V, 180°C</b>	<b>BBJ</b>
<i>Terminals</i>	<b>A</b>	<b>Electro Terminal</b>	<b>SLK5</b> <b>450V; 2,5mm<sup>2</sup>; T85</b>	<b>ENEC 11</b>
	<b>A</b>	<b>Electro Terminal</b>	<b>SLK3</b> <b>450V; 2,5mm<sup>2</sup>; T85</b>	<b>ENEC 10</b>
<i>PIR control module</i>	<b>B</b>	<b>Tridonic</b>	<b>BasicDim ILD 5DPI 14f</b>	<b>ENEC 11</b>
<i>Supply cable</i>	<b>A</b>	<b>Seval Kablo</b>	<b>H05Z1Z1-F</b>	<b>HAR</b>
<i>Plug</i>	<b>A</b>	<b>Kaiser</b>	<b>516, 616, 519</b> <b>250V; 16A</b>	<b>ÖVE</b>

A The component is replaceable with another one, also certified, with equivalent characteristics.

B The component is replaceable if authorised by the test house.

C Integrated component tested together with the appliance.

D Alternative component.



Type list:

IQ WAVE LED3100-830 R2M Q597 MRE  
IQ WAVE LED3100-840 R2M Q597 MRE  
IQ WAVE LED3100-865 R2M Q597 MRE  
IQ WAVE LED4100-830 R2M Q597 MRE  
IQ WAVE LED4100-840 R2M Q597 MRE  
IQ WAVE LED4100-865 R2M Q597 MRE  
IQ WAVE LED3100-830 R2M Q597 MRG  
IQ WAVE LED3100-840 R2M Q597 MRG  
IQ WAVE LED3100-865 R2M Q597 MRG  
IQ WAVE LED4100-830 R2M Q597 MRG  
IQ WAVE LED4100-840 R2M Q597 MRG  
IQ WAVE LED4100-865 R2M Q597 MRG  
IQ WAVE LED3100-830 R2M Q597 MRE SR2  
IQ WAVE LED4100-830 R2M Q597 MRE SR2  
IQ WAVE LED3100-830 HFIX Q597 MRE ML5  
IQ WAVE LED4100-830 HFIX Q597 MRE ML5  
IQ WAVE LED3100-830 HFIX Q597 MRE  
IQ WAVE LED3100-830 HFIX Q597 MRG  
IQ WAVE LED3100-830 HFIX Q622 MRE  
IQ WAVE LED3100-840 HFIX Q597 MRE  
IQ WAVE LED3100-840 HFIX Q597 MRG  
IQ WAVE LED3100-840 HFIX Q622 MRE  
IQ WAVE LED4100-830 HFIX Q597 MRE  
IQ WAVE LED4100-840 R2M Q622 MRE  
IQ WAVE LED4100-830 HFSX Q597 MRE  
IQ WAVE LED4100-840 HFSX Q597 MRE  
IQ WAVE LED4100-840 HFSX Q597 MRG  
IQ WAVE LED3100-830 HFSX Q622 MRE  
IQ WAVE LED3100-840 HFSX Q622 MRE  
IQ WAVE LED3100-840 HFSX Q597 MRE  
IQ WAVE LED4100-830 HFSX Q622 MRE  
IQ WAVE LED4100-840 HFSX Q622 MRE  
IQ WAVE LED3100-830 R2M Q622 MRE  
IQ WAVE LED3100-840 R2M Q622 MRE  
IQ WAVE LED3100-865 R2M Q622 MRE  
IQ WAVE LED4100-830 R2M Q622 MRE  
IQ WAVE LED4100-840 R2M Q622 MRE  
IQ WAVE LED4100-865 R2M Q622 MRE

Red flag pull up kit  
Red flag pull up kit 625

Variants:

830 ..... Ra80, 3000K  
840 ..... Ra80, 4000K  
865 ..... Ra80, 6500K  
R2M ..... Ready to Mains  
HF ..... High Frequency  
HFIX..... High Frequency DALI Dimmable  
HFSX ..... High Frequency PIR Sensor  
MRE ..... No safety wire supplied  
MRG..... Safety wire supplied  
Q597 ..... 597mm x 597mm x 97mm  
Q622 ..... 622mm x 622mm x 97mm