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ENEC Certification Body registered under ID # 11.

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# LICENCE

to use the European Mark



Licence No. **80585-018**

Date of issue: Wien, 2018 12 10

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: **ZG Lighting France**  
Route de Paix  
27700 Les Andelys  
France

Product: **Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **Thor Small CL2**

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>Europhane SAS</b> <b>Route de Paix</b> <b>27700 Les Andelys</b> <b>France</b></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>TR 12L...CL2...</b> <b>TR 24L...CL2...</b> <b>TR 36L...CL2..., see type code on page 5.</b></p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p><b>TR 80585-0011-02 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 60598-2-3:2012-01-01</b></p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p><b>EN 60598-1:2015</b> <b>EN 60598-2-3:2003 + A1:2011</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>Classified as risk group 2 according to EN 62471:2008.</b> <b>The luminaire should be positioned so that prolonged</b> <b>staring into the luminaire at a distance closer than 1,5 m</b> <b>is not expected.</b></p>
	<p><b>CTF Stage 3.</b></p>

<i>Nennspannung</i> <i>Rated voltage</i>	<b>220-240V 50/60Hz</b>
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	<b>TR 12L: 1x LED module with 12 LEDs TR 24L: 2x LED module with 12 LEDs TR 36L: 1x LED module with 36 LEDs</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED modules RLE12 (12 LEDs) or RLE36 (36 LEDs)</b>
<i>Schutzgrad</i> <i>Degree of protection</i>	<b>IP66</b>
<i>Netzanschluss</i> <i>Supply connection</i>	<b>Screw terminals</b>
<i>Befestigungsfläche</i> <i>Supporting surface</i>	<b>Normally flammable surface</b>
<i>Schutzklasse</i> <i>Class of protection</i>	<b>CI.II</b>
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	<b>Urban LED lantern with 12 to 36 LEDs and two variants: stabilized polycarbonate dome with opal finish (OP) or die-cast aluminium dome (FD). Body and bracket made of die-cast aluminium, powder coated anthracite. Enclosure with 6mm toughened flat glass (fracture into small pieces). Screws and closing set made of stainless steel. Several mounting options.</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>Certified for LED modules driven at max. 1050mA.</b>

<i>Bauteil</i> <i>Component</i>	<i>Code</i> <i>Code</i>	<i>Hersteller</i> <i>Manufacturer</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
LED Module	A*	THORN	RLE12 1050mA, 500V, tc 105°C, RG2	ÖVE
	A*	THORN	RLE36 1050mA, 500V, tc 105°C, RG2	ÖVE
	A*	Osram	BackLED S Plus G3 12VDC, tc 65°C, RG1	ENEC 25
LED control gear	B	Osram	OT 40W 4DIM	ENEC 10
	B	Osram	OT 60W 4DIM	ENEC 10
	B	Osram	OT 90W 4DIM	ENEC 10
	B	Tridonic	LCBU 10W 12V...	ENEC 12
Terminals	A	Wago	224-101 400V, 24A, T105	VDE
	A	Electro Terminal	SLK/3; 450V, 24A, T110	ENEC 10
Connector	A	Adels	160 BU/3s, 163 ST/3 400V, 16A, T110, 3pol.	VDE
	A	Adels	160 BU/5s, 163 ST/5 400V, 16A, T110, 5pol.	VDE
Internal wiring	A	Omerin	RECSC; 300V, 180°C	VDE
	A	BLF	SIL 100 300V, 180°C, 0,75mm <sup>2</sup>	VDE
External wiring	A	Interchangeable	H07RN-F 1,5mm <sup>2</sup>	HAR
SPD	B	Citel	MLPC1-230L-R	CB_HU-001850
Varistor	A	TDK	S20 420V, 150°C	VDE
Fuse holder	A	Stucchi	682/A; 250V, 6,3A, T70	IMQ
Cable gland	A	Bimed	BMOS-22 IP68, 100°C	VDE

- A The component is replaceable with another one, also certified, with equivalent characteristics.  
A\* The component is replaceable with another one according to ETF5-OSM-LUM/DSH OD-5002-3:2015  
B The component is replaceable if authorised by the test house.  
C Integrated component tested together with the appliance.  
D Alternative component.

Typecode:

TR ..L ... .. CL2 .. .. ..

