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**OVE Testing and Certification**  
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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.: **80585-025**

Date of issue: Wien, 2019 12 20

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: **VOLUPTO 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 and Certification

Digitally signed by W. Martin  
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



## **OVE Testing and Certification**

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<i>Hersteller</i> <i>Manufacturer</i>	<b>Thorn Lighting Ltd</b> <b>Durhamgate, Spennymoor,</b> <b>County Durham</b> <b>DL16 6HL</b> <b>United Kingdom</b>
<i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	<b>Europhane SAS</b> <b>Route de Paix</b> <b>27700 Les Andelys</b> <b>France</b>  <b>ZG Lighting SRB doo</b> <b>Ulica Cumtobel br. 1</b> <b>18000 Nis</b> <b>Serbia, Republic of</b>
<i>Typenbezeichnung</i> <i>Type reference</i>	<b>VO 12L...CL2...</b> <b>VO 18L...CL2...</b> <b>VO 24L...CL2..., see type code on page 5.</b>
<i>Prüfbericht</i> <i>Test Report</i>	<b>TR 80585-0019-02 ECS</b>
<i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	<b>OVE EN 60598-1:2018-11-01</b> <b>ÖVE/ÖNORM EN 60598-2-3:2012-01-01</b>
<i>Europannorm(en)</i> <i>European Standard(s)</i>	<b>EN 60598-1:2015 + A1:2018</b> <b>EN 60598-2-3:2003 + A1:2011</b>
<i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	--
<i>Anmerkung(en)</i> <i>Remark(s)</i>	<b>CTF Stage 3.</b>

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<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>VO 12L: 1x LED module LEM R12 VO 18L: 1x LED module LEM H18 VO 24L: 2x LED module LEM R12</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED modules LEM R12 (12 LEDs) or LEM H18 (18 LEDs).</b>
<i>Schutzgrad</i> <i>Degree of protection</i>	<b>IP66</b>
<i>Netzanschluss</i> <i>Supply connection</i>	<b>Pre-wiring</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>Post top LED lantern with a radially symmetric light distribution or wide street &amp; comfort light distribution. Canopy and base: corrosion resistant die-cast powder coated aluminium. Enclosure: UV stabilized polycarbonate.</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>Classified as risk group 2 (moderate risk) according to EN 62471:2008.</b>  <b>The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 1,5m is not expected.</b>

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<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	<b>B</b>	<b>Tridonic</b>	<b>LCO 40/200–1050/64</b>	<b>ENEC 11</b>
	<b>B</b>	<b>Tridonic</b>	<b>LCO 60/200–1050/100</b>	<b>ENEC 11</b>
<i>Internal wiring</i>	<b>B</b>	<b>Omerin</b>	<b>RECSC 300V; 180°C; double insulated</b>	<b>VDE</b>
<i>LED Module</i>	<b>A*</b>	<b>THORN</b>	<b>LEM R12 max. 1050mA, RG2, tc=105°C</b>	<b>ÖVE</b>
	<b>A*</b>	<b>THORN</b>	<b>LEM H18 max. 1050mA, RG2, tc=105°C</b>	<b>ÖVE</b>
<i>Terminals</i>	<b>A</b>	<b>Wago</b>	<b>224-112 400V; 24A; T105</b>	<b>VDE</b>
	<b>A</b>	<b>Electro Terminal</b>	<b>SLK/3 450V, 24A, T110</b>	<b>ENEC 10</b>
<i>SPD</i>	<b>A</b>	<b>Citel</b>	<b>MLPC2-230L-R</b>	<b>CB/HU-001850</b>
<i>Internal wiring</i>	<b>A</b>	<b>BLF</b>	<b>SIL/0100 300V; 0,75mm<sup>2</sup>; 180°C</b>	<b>VDE</b>
<i>Cable Gland</i>	<b>A</b>	<b>Bimed</b>	<b>BMOS-22 IP68, 100°C</b>	<b>VDE</b>
<i>External wiring</i>	<b>A</b>	<b>BizLink</b>	<b>H07RN-F 1,5mm<sup>2</sup></b>	<b>HAR</b>

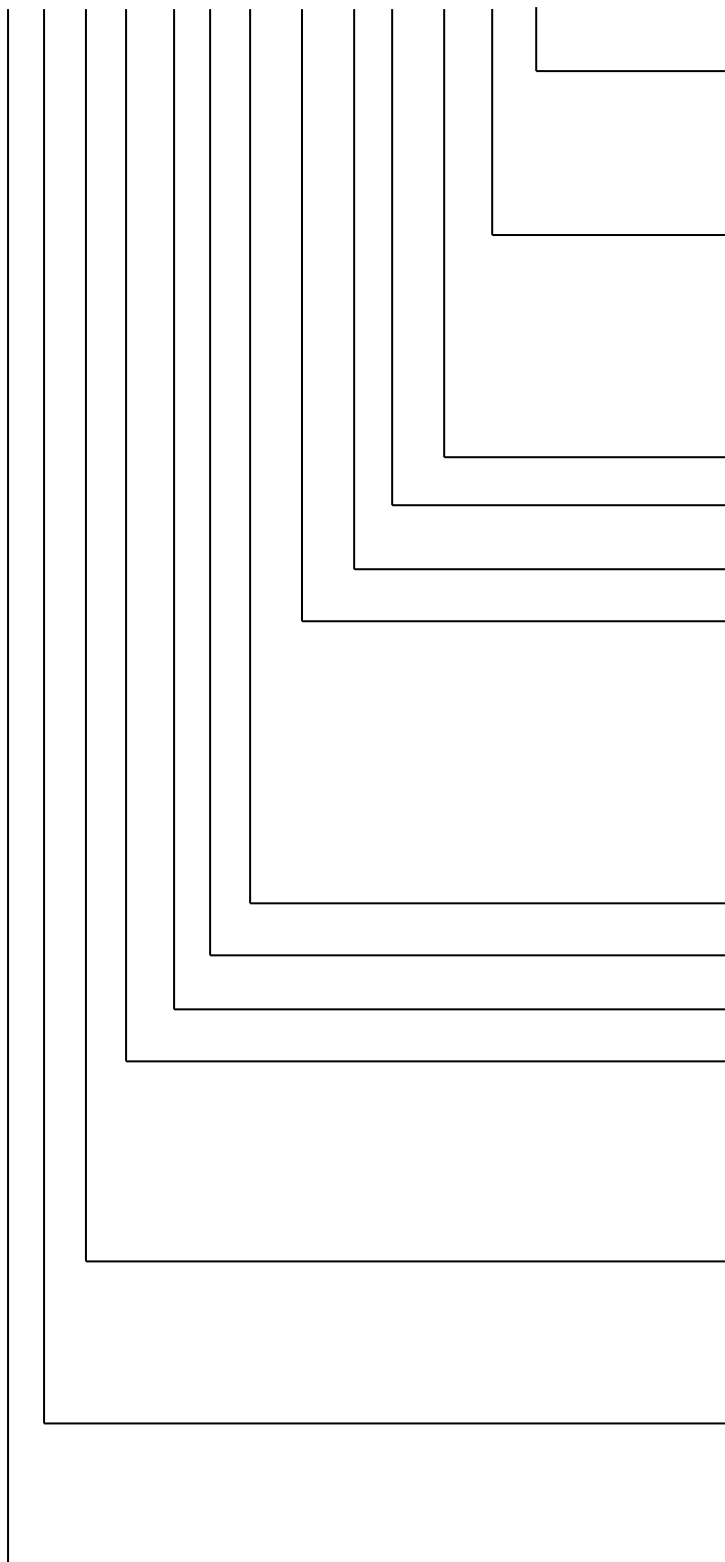
A The component is replaceable with another one, also certified, with equivalent characteristics.  
A\* The component is replaceable with another one according to ETF5-OSM-LUM/DSH 2057  
B The component is replaceable if authorised by the test house.  
C Integrated component tested together with the appliance.  
D Alternative component.

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Typecode:

**VO ..L...-... .. .. .. .. CL2 .. ..**



**Colour**

GY ..... Light grey 150 sanded  
ANT ..... Anthracite 900 sanded  
BK..... Black sanded  
R..... RAL....

**Wiring**

D5 ..... Pre-wired, 5m  
D6 ..... Pre-wired, 6m  
D8 ..... Pre-wired, 8m  
W5 ..... Pre-wired, 5m  
W6 ..... Pre-wired, 6m  
W8 ..... Pre-wired, 8m

**CL2**..... Protection class II

**SP**..... with Surge Protection Device (optional)

**HFX** ..... DALI dimmable

**Bi-Power light reduction (optional)**

BPL..... Bi-Power Power Line  
LRT..... Light Reduction Twin Phases  
BP550..... Bi-Power 5h (-2h +3h) 50% reduction  
BP750..... Bi-Power 7h (-3h +4h) 50% reduction  
BP..... Bi-Power 8h (-3h +5h) 50% reduction  
BP530..... Bi-Power 5h (-2h +3h) 30% reduction  
BP730..... Bi-Power 7h (-3h +4h) 30% reduction  
BP830..... Bi-Power 8h (-3h +5h) 30% reduction

**CLO** ..... Constant Light Output (optional)

**LV**..... Internal louvre (optional)

**Optics**

**Photometric code**

827..... 2700K, CRI 80  
730..... 3000K, CRI 70  
830..... 3000K, CRI 80  
740..... 4000K, CRI 70  
840..... 4000K, CRI 80

**Current of LED module**

35..... 350mA  
50..... 500mA  
70..... 700mA  
105..... 1050mA

**Number of LEDs**

12L..... 12 LEDs  
18L..... 18 LEDs  
24L..... 24 LEDs

**Series VOLUPTO**

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