

OVE Austrian Electrotechnical Association
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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

LICENCE

to use the European Mark



Licence No.: **80585-024**

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 CL1**

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



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<i>Hersteller Manufacturer</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
<i>Fertigungsstätte(n) Factory location(s)</i>	Europhane SAS Route de Paix 27700 Les Andelys France ZG Lighting SRB doo Ulica Cumtobel br. 1 18000 Nis Serbia, Republic of
<i>Typenbezeichnung Type reference</i>	VO 12L...CL1... VO 18L...CL1... VO 24L...CL1..., see type code on page 5.
<i>Prüfbericht Test Report</i>	TR 80585-0019-01 ECS
<i>Nationale Bestimmung(en) National Standard(s)</i>	OVE EN 60598-1:2018-11-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01
<i>Europannorm(en) European Standard(s)</i>	EN 60598-1:2015 + A1:2018 EN 60598-2-3:2003 + A1:2011
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	CTF Stage 3.

<i>Nennspannung</i> <i>Rated voltage</i>	220-240V, 50/60Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	VO 12L: 1x LED module LEM R12 VO 18L: 1x LED module LEM H18 VO 24L: 2x LED module LEM R12
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R12 (12 LEDs) or LEM H18 (18 LEDs).
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluss</i> <i>Supply connection</i>	Pre-wiring
<i>Befestigungsfläche</i> <i>Supporting surface</i>	Normally flammable surface
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Post top LED lantern with a radially symmetric light distribution or wide street & comfort light distribution. Canopy and base: corrosion resistant die-cast powder coated aluminium. Enclosure: UV stabilized polycarbonate.
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 2 (moderate risk) according to EN 62471:2008. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 1,5m is not expected.

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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	Tridonic	LCO 40/200–1050/64	ENEC 11
	B	Tridonic	LCO 60/200–1050/100	ENEC 11
<i>LED Module</i>	A*	THORN	LEM R12 max. 1050mA, RG2, tc=105°C	ÖVE
	A*	THORN	LEM H18 max. 1050mA, RG2, tc=105°C	ÖVE
<i>Terminals</i>	A	Wago	224-112 400V; 24A; T105	VDE
	A	Electro Terminal	SLK/3 450V, 24A, T110	ENEC 10
<i>SPD</i>	A	Citel	MLPC1-230L-R	CB/HU-001850
<i>Internal wiring</i>	A	BLF	SIL/0100 300V; 0,75mm²; 180°C	VDE
<i>Cable Gland</i>	A	Bimed	BMOS-22 IP68, 100°C	VDE
<i>External wiring</i>	A	BizLink	H07RN-F 1,5mm²	HAR

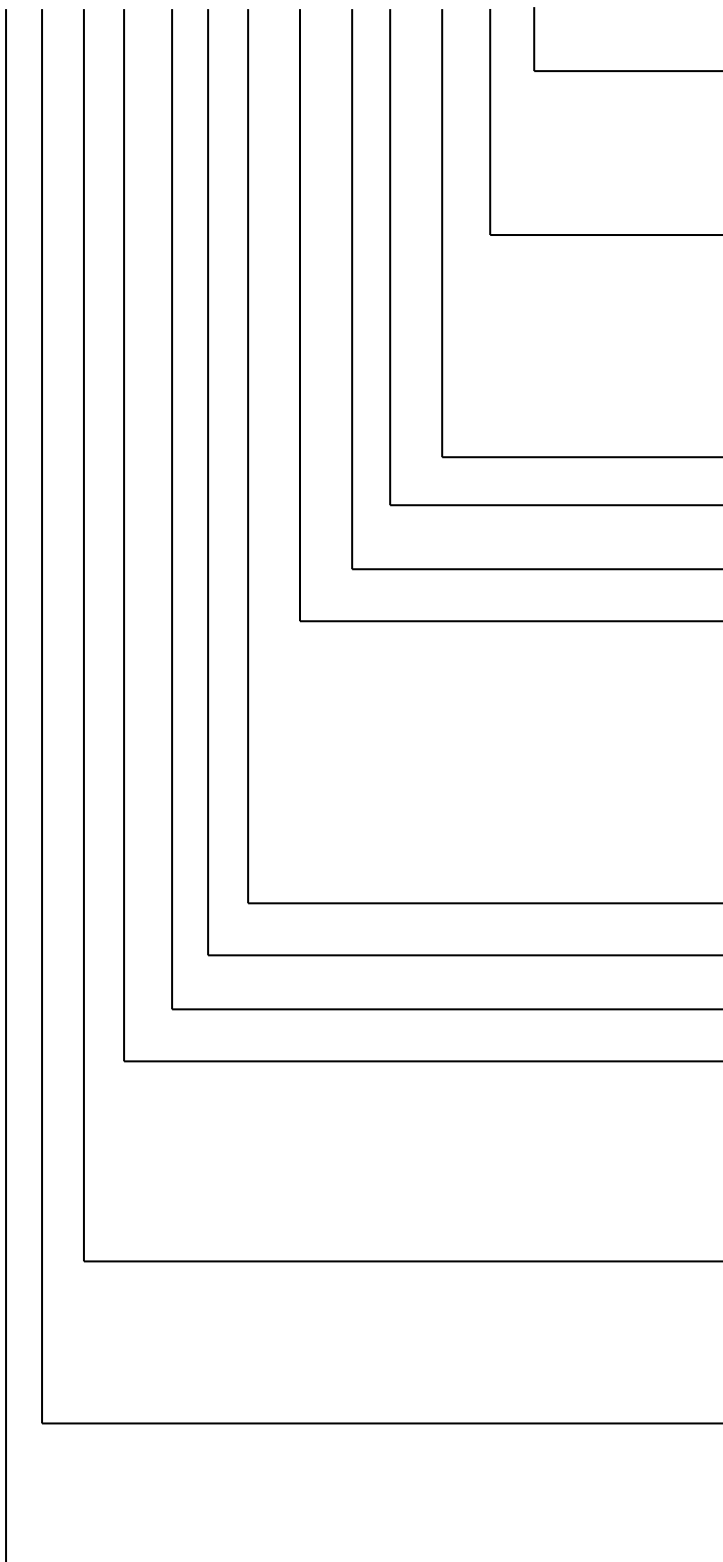
A The component is replaceable with another one, also certified, with equivalent characteristics.
A* The component is replaceable with another one according to ETF5-OSM-LUM/DSH 2057
B The component is replaceable if authorised by the test house.
C Integrated component tested together with the appliance.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

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Typecode:

VO ..L...-... CL1



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

CL1 Protection class I

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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