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ENEC Certification Body registered under ID # 11.

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LICENCE

to use the European Mark



Licence No.: **80585-027**

Date of issue: Wien, 2020 08 18
Rev. No.: 01 Wien, 2023 10 03

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

Licensee: **ZG Lighting France**
Route de Paix
27705 Les Andelys
France

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

Trade Mark: **THORN**

Series/Type: **Series AERIE (ARW ... CL1, ARS ... 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 OVE Certification

Digitally signed by T. Neumayer
Email=t.neumayer@ove.at

Dipl.-Ing. T. Neumayer



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<i>Hersteller</i> <i>Manufacturer</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
* <i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	ZG Lighting SRB doo Ulica Cumtobel br. 1 18000 Nis Serbia
<i>Typenbezeichnung</i> <i>Type reference</i>	AR. 12L ... CL1 ... AR. 18L ... CL1 ... AR. 24L ... CL1 ..., see type code on page 5.
* <i>Prüfbericht</i> <i>Test Report</i>	TR 80585-0042-01 ECS
* <i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	OVE EN IEC 60598-1:2022-04-01 OVE EN IEC 60598-1/A11:2023-02-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01
* <i>Europannorm(en)</i> <i>European Standard(s)</i>	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022 EN 60598-2-3:2003 + A1:2011
* <i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	80585-027 dated 2020 08 18 Items modified are marked with an asterisk (*)
* <i>Anmerkung(en)</i> <i>Remark(s)</i>	--

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<i>Nennspannung</i> <i>Rated voltage</i>	AC 220-240 V
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	1x LED module LEM R12, or 2x LED module LEM R12, or 1x LED module LEM H18.
<i>Lampentyp(en)</i> <i>Lamp identification</i>	Built-in LED modules with 12 LEDs each (LEM R12), or with 18 LEDs (LEM H18).
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluss</i> <i>Supply connection</i>	External 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 mounted LED lantern with different optics, spigot diameter 60 or 76 mm. Canopy and base made of die-cast powder coated aluminium. Enclosure made of UV-stabilized polycarbonate (PC). PC bowl in different designs: Slim (types ARS ...) or Wide (types ARW ...). Pre-wired with external cable.
<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 1,5 m is not expected.

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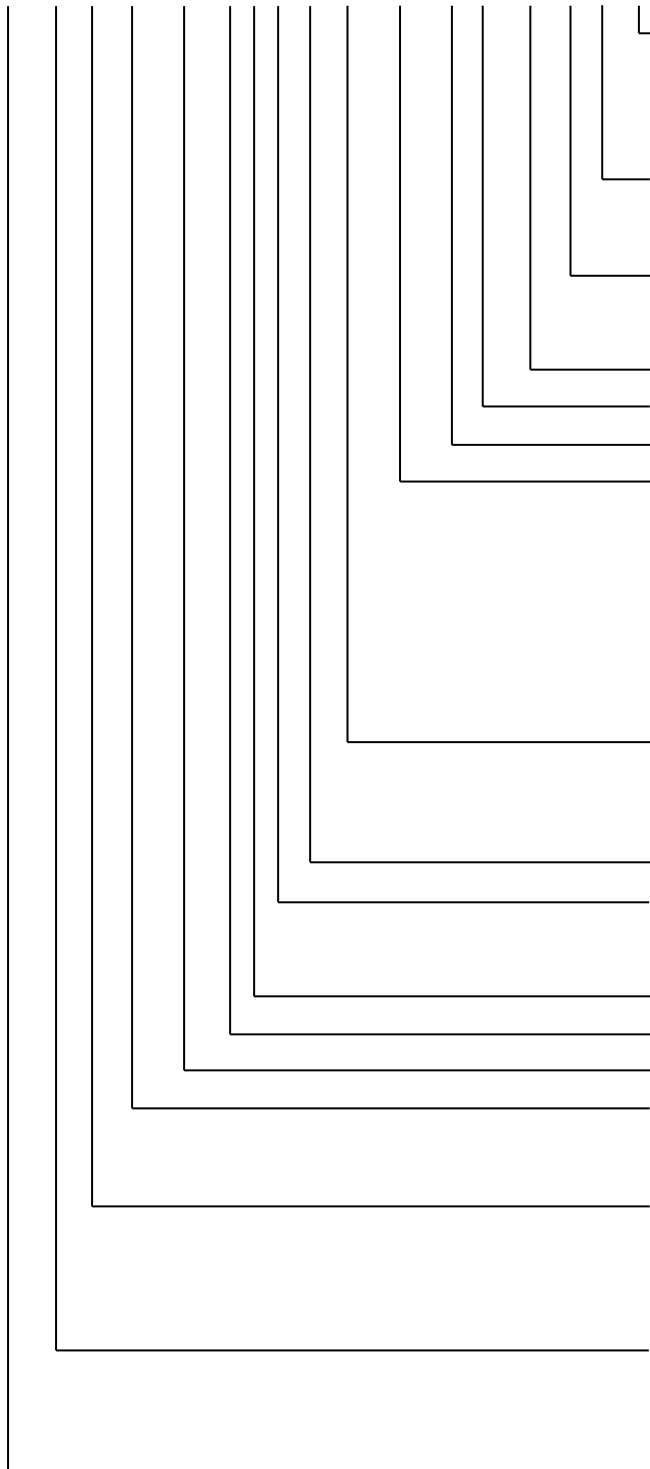
<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	B	Tridonic	LCO 40/200–1050/64	ENEC 11
	B	Tridonic	LCO 60/200–1050/100	ENEC 11
	* B	Philips	Xitanium SR 40W	ENEC 05
	* B	Philips	Xitanium SR 75W	ENEC 05
* Connector	B	Tyco	2213858-1	CBTC US-34131-M1-UL
<i>Internal wiring</i>	B	Omerin	RECSC 300V; 180°C; double insulated	VDE
<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, T85	ENEC 11
* SPD	B	Citel	MLPC1-230L-R	IMQ
<i>Internal wiring</i>	B	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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AR...L.....CL1



Colour

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

Mounting

- T60.....post-top D60
- T76.....post-top D76

Wiring (DACH Pre-wired or Pre-wired)

- D5 (5m), D6 (6m), D8 (8m),
- W5 (5m), W6 (6m),W8 (8m)

CL1Protection class I

SPwith Surge Protection Device (optional)

HFX.....DALI dimmable (optional)

Bi-Power light reduction (optional)

- BPL.....Bi-Power Power Line
- LRT.....Light Reduction Twin Phases
- BPS550.....Bi-Power 5h (-2h +3h) 50% reduction
- BPS750.....Bi-Power 7h (-3h +4h) 50% reduction
- BPS.....Bi-Power 8h (-3h +5h) 50% reduction
- BPS530.....Bi-Power 5h (-2h +3h) 30% reduction
- BPS730.....Bi-Power 7h (-3h +4h) 30% reduction
- BPS830.....Bi-Power 8h (-3h +5h) 30% reduction

Controls (optional)

- ZU.....Zhaga socket up
- ZD.....Zhaga socket down
- ZUD.....Zhaga socket up & down

CLOConstant Light Output (optional)

Bowl

- CL.....clear
- OP.....opal

PR.....Prismatic/Comfort diffuser (optional)

LVInternal louvre (optional)

Optics

Photometric code (xxx)

- 722 to 840.....First digit CRI 70 or CRI 80
- Second and third digit 2200K to 4000K

Current of LED module

- 35..... 350mA
- 50..... 500mA
- 70..... 700mA
- 105.....1050mA (only types 12L and 18L)

Number of LEDs

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

Series AERIE

- ARW.....AERIE Wide
- ARS.....AERIE Slim

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