

OVE Austrian Electrotechnical Association
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OVE 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 ENEC+ Mark



Licence No.: **80585-022**

Date of issue: Wien, 2026 05 28

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: **Luminaire for road and street lighting**

Trade Mark: **THORN**

Series/Type: **Series AVENUE 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.

Only valid in conjunction with ENEC-Licence No.: 80585-039

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 Manufacturer</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
<i>Fertigungsstätte(n) Factory location(s)</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
<i>Typenbezeichnung Type reference</i>	AV 12L.. ... CL1 ..., AV 18L.. ... CL1 ..., AV 24L.. ... CL1 ..., AV 36L.. ... CL1 ..., see type code on page 6.
<i>Prüfbericht Test Report</i>	TR 80585-0058-01, TR 80585-0058-02, TR 80585-0058-03, TR 80585-0058-04, TR 80585-0058-05, TR 80585-0058-06, TR 80585-0058-07, TR 80585-0058-08, TR 80585-0058-09, TR 80585-0058-10, TR 80585-0058-11, TR 80585-0058-12, TR 80585-0058-13, TR 80585-0058-14.
<i>ENEC+ Requirement Sheet Standard</i>	PD EPRS 003:2025-04 (based on EN IEC 62722-2-1:2023)
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	This Licence is valid for all LED luminaires as listed on page 6. Rated photometric values according to EPRS 003 had been approved on selected samples, which where found to be representative for the certified family range (based on AD ENEC 331).

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<i>Bemessungsversorgungsspannung</i> <i>Rated supply voltage</i>	AC 230-240 V, 50/60 Hz
<i>Nennleistung</i> <i>Rated power</i>	see type list on page 7.
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R12 (12 LEDs), LEM H18 (18 LEDs), LEM R36 (36 LEDs).
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I
<i>Ähnlichste Farbtemperatur</i> <i>Correlated colour temperature CCT</i>	2200 K, 2700 K, 3000 K, 4000 K
<i>Bemessungswert des Farbwiedergabeindex</i> <i>Rated colour rendering index CRI</i>	70, 80
<i>Bemessungslichtstrom</i> <i>Rated luminous flux</i>	1240 - 10400 lm
<i>Bemessungswert der Lichtausbeute</i> <i>Rated efficacy</i>	72 - 171 lm/W
<i>Bemessungs-Umgebungstemperatur zur Arbeitsweise tq</i> <i>Rated ambient performance temperature tq</i>	25°C
<i>Type von LED-Leuchte</i> <i>Type of LED luminaire</i>	Type A
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 2 (moderate risk) according to EN 62471:2008.

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<i>Bauteil Component</i>	<i>Code Code</i>	<i>Hersteller Manufact.</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	B	Tridonic	LCO 14/100-500/38 NF C ADV3	ENEC 11
	B	Tridonic	LCO 14/100-500/38 o4a NF C EXC3	ENEC 11
	B	Tridonic	LCO 40/200-1050/64 NF C ADV3	ENEC 11
	D	Tridonic	LCO 40/200-1050/77 NF C ADV3	ENEC 11
	B	Tridonic	LCO 40/200-1050/64 o4a NF C EXC3	ENEC 11
	D	Tridonic	LCO 40/200-1050/77 o4a NF C EXC3	ENEC 11
	B	Tridonic	LCO 60/200-1050/100 NF C ADV3	ENEC 11
	B	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	ENEC 11
	D	Tridonic	LCO 60/200-1050/107 NF C ADV3	ENEC 11
	D	Tridonic	LCO 60/200-1050/107 o4a NF C EXC3	ENEC 11
	B	Tridonic	LCO 80/200-1050/91 2xCH pD+ NF C PRE3	ENEC 11
	B	Tridonic	LCO 90/200-1050/165 NF C ADV3	ENEC 11
	D	Tridonic	LCO 90/200-1050/176 NF C ADV3	ENEC 11
	B	Tridonic	LCO 90/200-1050/165 o4a NFC C EXC3	ENEC 11
	D	Tridonic	LCO 90/200-1050/176 o4a NF C EXC3	ENEC 11
	B	Philips	Xi SR 40W 0.2-1.0A SNEMP 230V C123 sXt	ENEC 05
B	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	ENEC 05	
B	Philips	Xi SR 75W 0.2-1.0A SNEMP 230V C150 sXt	ENEC 05	
<i>LED modules</i>	A*	Thorn	LEM R12 tc = 105°C; max. 1050mA	OVE
	A*	Thorn	LEM R36 tc = 105°C; max. 1050mA	OVE
	A*	Thorn	LEM H18 tc = 105°C; max. 1050mA	OVE
<i>Base (Zhaga)</i>	B	Tyco	2213858-1 250V; 5A; 90°C; IP66	CB_US-34131-M2- UL
<i>Base (Nema)</i>	B	Tyco	2213362-4 240V; 7,5A; signal DC 30V; 1,5A	CB_US-37285-M2- UL
<i>Surge protection</i>	B	Citel	MLPC1-230L-R 320V; 5A; Uc= 320V; In= 5kA; Uoc= 10kV; Up= 1,5kV	IMQ
<i>Internal wiring</i>	B	BLF	SIL/0100 U-T2 300V; 180°C; 0,75mm ²	VDE
	B	BLF	UG4G4 0,75mm ² 450/750 V; 180°C; double insulated	IMQ
<i>Appliance coupler</i>	B	Wieland	RST20I3S 250/400V; 20A; IP66	VDE
	B	Wieland	RST20I5S 250/400V; 20A; IP66	VDE
<i>Terminals</i>	A	Electro Terminal	SLK3/2 450V; 16A; T85; 2,5mm ²	VDE
	A	Electro Terminal	SLK3/3 450V; 16A; T85; 2,5mm ²	VDE

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<i>Bauteil</i> <i>Component</i>	<i>Code</i>	<i>Hersteller</i> <i>Code Manufact.</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
<i>Connector</i>	A	Adels	160 BU/3s 400V; 16A; 2,5mm²; 110°C	VDE
	A	Adels	160 BU/5s 400V; 16A; 2,5mm²; 110°C	VDE
	A	Adels	163 ST/3 250V; 16A; 2,5mm²; 110°C	VDE
	A	Adels	163 ST/5 250V; 16A; 2,5mm²; 110°C	VDE
	A	Wago	224-101 400V; 16A; 2,5mm²; 105°C	VDE
<i>Terminal</i>	A	Bimed	BM22-L PA 6; IP66; 80°C	VDE
<i>Cable Gland</i>	A	Lappkabel	H07RN-F 750V; 1,0mm² or 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 2057A
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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Typelist and photometric data:

Series	Type	Built-in LED modules	No. of LEDs	Module current	Rated input power	Rated luminous flux	Rated efficacy
				[mA]	[W]	[lm]	[lm/W]
AVENUE	AV 12L35	1x LEM R12	12	350	13,6 - 13,7	1240 - 2220	91 - 163
	AV 12L50			500	18,9 - 19,1	1700 - 3060	89 - 161
	AV 12L70			700	26,3 - 26,6	2240 - 4110	85 - 155
	AV 18L35	1x LEM H18	18	350	19,8 - 20,0	1760 - 3340	88 - 168
	AV 18L50			500	27,9 - 28,1	2400 - 4600	86 - 165
	AV 18L70			700	38,9 - 39,1	3170 - 6120	81 - 157
	AV 18L105			1050	59,4 - 59,9	4280 - 8420	72 - 141
	AV 24L35	2x LEM R12	24	350	26,0 - 26,2	2480 - 4390	95 - 169
	AV 24L50			500	36,7 - 37,0	3390 - 6050	92 - 164
	AV 24L70			700	51,5 - 51,7	4480 - 8030	87 - 156
	AV 36L35	1x LEM R36	36	350	38,3 - 38,5	3710 - 6550	96 - 171
	AV 36L50			500	54,3 - 54,5	5070 - 8970	93 - 165
AV 36L60	600			65,2 - 65,3	5890 - 10400	109 - 151	

Optics:

AESC Axial Street Extra Comfort
 ES Extensive Street
 EW2 Extra Wide
 EWC Extra Wide Street Comfort
 EWS Extra Wide Street
 SC Street Comfort
 SES Super Extensive Street
 WS Wide Street
 WSC Wide Street Comfort
 ENR Extra Narrow Road
 EWR Extra Wide Road
 NR Narrow Road
 RC Road Comfort
 WR Wide Road
 CST Narrow Beam
 RS Medium Beam
 RSC Wide Beam
 WST Elliptical Beam

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