

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.: **80585-019**

Date of issue: Wien, 2025 09 30

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: **Floodlights**

Trade Mark: **THORN**

Series/Type: **Series Altis Gen5 (ALG5...)**

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.: 80585-035

Österreichischer Verband für Elektrotechnik
Head of OVE Certification

T. Neumayer

Digitally signed by T. Neumayer
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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>	ALG5 .. 144L..., ALG5 .. 168L..., ALG5 .. 288L..., ALG5 .. 336L..., ALG5 .. 432L..., ALG5 .. 504L..., see type code on page 5
<i>Prüfbericht Test Report</i>	TR 80585-0059-01, TR 80585-0059-02, TR 80585-0059-03, TR 80585-0059-04, TR 80585-0059-05, TR 80585-0059-06, TR 80585-0059-07, TR 80585-0059-08, TR 80585-0059-09, TR 80585-0059-10, TR 80585-0059-11.
<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Ersatz für Zertifikat Superseded licence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 5. Rated photometric values according to EPRS 003 had been approved on selected samples, which were 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 220-400 V, 50/60 Hz
<i>Nennleistung</i> <i>Rated power</i>	see page 6.
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R144 (144 LEDs) or LEM R168 (168 LEDs)
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I
<i>Ähnlichste Farbtemperatur</i> <i>Correlated colour temperature CCT</i>	3000 K, 4000 K, 5700 K
<i>Bemessungswert des Farbwiedergabeindex</i> <i>Rated colour rendering index CRI</i>	70, 77, 85, 90
<i>Bemessungslichtstrom</i> <i>Rated luminous flux</i>	see page 6.
<i>Bemessungswert der Lichtausbeute</i> <i>Rated efficacy</i>	see page 6.
<i>Umgebungstemperatur ta</i> <i>Rated ambient temperature ta</i>	25°C or 35°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 Manufacturer</i>	<i>Typenbezeichnung Type Reference</i>	<i>Konformitätszeichen Mark(s) of conformity</i>
<i>LED control gear</i>	B	Thorn Lighting	RHPS579-KZ	ENEC 05
	B	Thorn Lighting	RHPS579-Z	ENEC 05
	B	Thorn	EUCO-1K4	ENEC 15
	B	Thorn	EUCO 2K1	ENEC 15
<i>Terminal</i>	B	Wago	262-104; 690 V, 32 A	KEMA
	B	Wago	2604-3304; 630 V, 32 A	KEMA
	B	Wago	2604-1309; 600 V, 32 A	KEMA
<i>Internal wiring (Earth)</i>	B	BLF	SIL 100	VDE
<i>Internal Wiring</i>	B	BLF	300 V, 180°C, 0,75 mm² UG4G4 450/750 V, 180°C, double insulated	IMQ
<i>LED module</i>	A*	Zumtobel Group	LEM R168 728W	OVE
	A*	Zumtobel Group	LEM R144 624W	OVE
	A*	Zumtobel Group	LEM R144 624W B	OVE
<i>Cable Gland</i>	A	Bimed	BM22-L IP68, 100°C	VDE
	A	Cembre	MAXIblock 1901 IP68, 100°C	VDE
<i>External wiring</i>	A	Lapp	H07RN-F 3G1/1.5	IMQ

- 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:

ALG5L...-.....

Colour

ANTTexturized anthracite/module texturized anthracite
BK.....Texturized black/Lighting module texturized black
GYTexturized light grey/Lighting module texturized light grey
GY-S.....Unpainted / module texturized light grey

Bracket (optional for 2 Light modules)

LBLight Bracket

Black PCB to reduce spill light (optional)

BBlack (max. 1050 mA, only for types 144L, 288L, 432L)
(letter added at the end of optic)

Optics

for types 144L, 288L, 432L: A4, A5, A15, A6, A16, EW (asym. beam)
for types 168L, 336L, 504L: NB, MB, WB, EB, AW, A13 (sym. beam)

Application

PST.....Stadium Ambient Temperature 25°C
PTR.....Training Ambient Temperature 25°C
PIC.....Indoor Competition Ambient Temp 25°C
PIT.....Indoor Training Ambient Temp 25°C
PAR.....Area without dim Ambient Temp 25°C
PST35.....Stadium Ambient Temperature 35°C
PTR35.....Training Ambient Temperature 35°C
PIC35.....Indoor Competition Ambient Temp 35°C
PIT35.....Indoor Training Ambient Temp 35°C
PAR35.....Area without dim Ambient Temp 35°C

CCT+CRI

730.....CRI 70 3000K
740.....CRI 70 4000K
757.....CRI 70 5700K
857.....CRI 77 5700K
857T82CRI 85 5700K
957T90CRI 90 5700K

Current of LED module

70.....700 mA
85.....850 mA
105.....1050 mA
125.....1250 mA (only for types 144L, 288 and 432L)

Number of LEDs

1 Light module	2 Light modules	3 Light modules
144L.....144 LEDs	288L.....288 LEDs	432L.....432 LEDs
168L.....168 LEDs	336L.....336 LEDs	504L.....504 LEDs

Type

-with Premium gearbox

Series

ALG5Altis Gen5

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Typelist, electrical specification, luminous flux and efficacy:

Series	Type	Built-in LED modules	No. of LEDs	LED module current	Luminous flux	Rated input power	Efficacy
				[mA]	[lm]	[W]	[lm/W]
Altis Gen5	ALG5 144L70	1x LEM R144	144	700	34.652 - 47.489	297,2 - 297,5	116,6 - 159,6
	ALG5 144L85			850	40.445 - 55.814	365,1 - 365,5	110,8 - 152,7
	ALG5 144L105			1050	47.320 - 65.952	456,5 - 457,0	103,7 - 144,3
	ALG5 144L125			1250	53.203 - 74.949	548,0 - 548,8	97,1 - 136,6
	ALG5 144L70 Black	1x LEM R144 Black	144	700	25.307 - 38.946	297,5	85,1 - 130,9
	ALG5 144L85 Black			850	29.743 - 45.774	365,5	81,4 - 125,2
	ALG5 144L105 Black			1050	35.146 - 54.088	457,0	76,9 - 118,4
	ALG5 168L70	1x LEM R168	168	700	42.514 - 56.944	345,5 - 345,8	123,1 - 164,7
	ALG5 168L85			850	49.457 - 66.779	424,1 - 424,5	116,6 - 157,3
	ALG5 168L105			1050	57.561 - 78.624	529,7 - 530,4	108,7 - 148,2
	ALG5 288L70	2x LEM R144	288	700	69.070 - 94.791	593,6 - 594,1	116,4 - 159,6
	ALG5 288L85			850	80.523 - 111.323	729,0 - 729,8	110,5 - 152,5
	ALG5 288L105			1050	94.037 - 131.376	911,2 - 912,3	103,2 - 144,0
	ALG5 288L125			1250	105.492 - 149.072	1093,5 - 1095,2	96,5 - 136,1
	ALG5 288L70 Black	2x LEM R144 Black	288	700	50.514 - 77.740	594,1	85,0 - 130,9
	ALG5 288L85 Black			850	59.324 - 91.297	729,8	81,3 - 125,1
	ALG5 288L105 Black			1050	70.010 - 107.743	912,3	76,7 - 118,1
	ALG5 336L70	2x LEM R168	336	700	84.946 - 113.823	690,8 - 691,3	123,0 - 164,7
	ALG5 336L85			850	98.785 - 133.450	847,8 - 848,7	116,5 - 157,2
	ALG5 336L105			1050	114.906 - 157.061	1058,9 - 1060,3	108,5 - 148,1
	ALG5 432L70	3x LEM R144	432	700	103.239 - 141.891	889,3 - 890,0	116,1 - 159,4
	ALG5 432L85			850	120.208 - 166.498	1091,8 - 1092,9	110,1 - 152,3
	ALG5 432L105			1050	140.104 - 196.224	1364,1 - 1365,8	102,7 - 143,7
	ALG5 432L125			1250	156.795 - 222.287	1636,4 - 1638,9	95,8 - 135,6
	ALG5 432L70 Black	3x LEM R144 Black	432	700	75.614 - 116.367	890,0	85,0 - 130,7
	ALG5 432L85 Black			850	88.726 - 136.547	1092,9	81,2 - 124,9
	ALG5 432L105 Black			1050	104.568 - 160.926	1365,8	76,6 - 117,8
	ALG5 504L70	3x LEM R168	504	700	126.764 - 170.208	1034,2 - 1035,1	122,6 - 164,4
	ALG5 504L85			850	147.141 - 199.305	1268,0 - 1270,2	116,0 - 156,9
	ALG5 504L105			1050	170.642 - 234.084	1584,0 - 1586,0	107,7 - 147,6

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