

OVE Austrian Electrotechnical Association
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OVE Certification
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ENEC Certification Body registered under ID # 11.

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LICENCE

to use the European Mark



Licence No.: **80585-035**

Date of issue: Wien, 2025 06 26

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.

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 .. 312L..., ALG5 .. 336L..., ALG5 .. 432L..., ALG5 .. 456L..., ALG5 .. 480L..., ALG5 .. 504L..., see type code on page 5
<i>Prüfbericht Test Report</i>	TR 80585-0035-01 ECS
<i>Nationale Bestimmung(en) National Standard(s)</i>	OVE EN IEC 60598-1:2022-04-01 OVE EN IEC 60598-1/A11:2023-02-01 OVE EN 60598-2-5:2016-11-01
<i>Europannorm(en) European Standard(s)</i>	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022 EN 60598-2-5:2015
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	--

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Bemessungsversorgungsspannung
Rated supply voltage

AC 220-400 V, 50/60 Hz

Anzahl und Leistung der Lampen
Rated wattage and number of lamps

see page 6

Lampentyp(en)
Lamp identification

**LED modules LEM R144 (144 LEDs) or
LEM R168 (168 LEDs)**

Schutzgrad
Degree of protection

IP66

Netzanschluss
Supply connection

Screwless terminals

Befestigungsfläche
Supporting surface

Normally flammable surface

Schutzklasse
Class of protection

CI.I

Umgebungstemperatur t_a
Rated ambient temperature t_a

25°C or 35°C, see page 6

Beschreibung des Aufbaus
Description of construction

**A high powered LED floodlight with several optic light distribution, from 144 to 504 LEDs.
External control gear, supplied only by Thorn Lighting (maximum driving current 1400mA) and wiring with H07 RN-F cable type. Heatsink: Die-cast aluminium powder coated dark sandy grey (close to RAL 7043). Mounting bracket and frame: dark sandy grey (close to RAL 7043).
Cover: 4mm clear glass. Bracket mounted using fixation points available (one M20 screw or two M14 screws)**

Zusatzinformation
Additional information

**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 2 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	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	VDE
	A	Cembre	MAXIblock 1901	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

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

Bracket (optional for 2 Light modules)

LBLight Bracket

Electronics (optional)

BBlack PCB to reduce spill light
.....(letter added at the end of optic)

Optics

Optics (2nd Lighting modules)

Optics (3rd Lighting modules)

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, 857T.....CRI 80 5700K
740.....CRI 70 4000K, 857T82.....CRI 80 5700K TLCI 82
757.....CRI 70 5700K, 957T90.....CRI 90 5700K TLCI 90

Current of LED module

70.....700 mA
85.....850 mA
105.....1050 mA
125.....1250 mA
140.....1400 mA (only for 144, 288 and 432 LEDs)

Number of LEDs

1 Light module	2 Light modules
144L.....144 LEDs	288L.....288 LEDs
168L.....168 LEDs	312L.....312 LEDs
	336L.....336 LEDs
3 Light modules	
432L.....432 LEDs	
456L.....456 LEDs	
480L.....480 LEDs	
504L.....504 LEDs	

Type

-with Premium gearbox
LEwith Performance gearbox

Serie

ALG5.....Altis Gen5

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Drivers vs variant & Ambient temperature:

	1/2 Light Modules		3 Light Modules		Ambient temperature
	Premium	Performance	Premium	Performance	
700 mA	RHPS579-KZ		RHPS579-Z		35°C
850 mA	RHPS579-KZ	EUCO-1K4	RHPS579-Z	EUCO-2K1	35°C
1050 mA	RHPS579-KZ	EUCO-1K4	RHPS579-Z	EUCO-2K1	35°C
1250 mA	RHPS579-KZ	EUCO-1K4	RHPS579-Z	EUCO-2K1	25°C
1400 mA	RHPS579-KZ		RHPS579-Z		25°C

Typelist, thermal and electrical specification:

Series	Type	Built-in LED modules	No. of LEDs	Module current	Rated input power
				[mA]	[W]
Altis Gen5	ALG5 144L70	1x LEM R144	144	700	297
	ALG5 144L85			850	365
	ALG5 144L105			1050	457
	ALG5 144L125			1250	549
	ALG5 144L140			1400	614
	ALG5 168L70	1x LEM R168	168	700	346
	ALG5 168L85			850	425
	ALG5 168L105			1050	530
	ALG5 168L125			1250	636
	ALG5 288L70	2x LEM R144	288	700	594
	ALG5 288L85			850	730
	ALG5 288L105			1050	912
	ALG5 288L125			1250	1095
	ALG5 288L140			1400	1225
	ALG5 312L70	1x LEM R144 + 1x LEM R168	312	700	644
	ALG5 312L85			850	791
	ALG5 312L105			1050	987
	ALG5 312L125			1250	1184
	ALG5 336L70	2x LEM R168	336	700	691
	ALG5 336L85			850	849
	ALG5 336L105			1050	1060
	ALG5 336L125			1250	1272
	ALG5 432L70	3x LEM R144	432	700	890
	ALG5 432L85			850	1093
	ALG5 432L105			1050	1366
	ALG5 432L125			1250	1639
	ALG5 432L140			1400	1833
	ALG5 456L70	2x LEM R144 + 1x LEM R168	456	700	942
	ALG5 456L85			850	1157
	ALG5 456L105			1050	1444
	ALG5 456L125			1250	1732
	ALG5 480L70	1x LEM R144 + 2x LEM R168	480	700	990
	ALG5 480L85			850	1216
	ALG5 480L105			1050	1517
	ALG5 480L125			1250	1820
	ALG5 504L70	3x LEM R168	504	700	1035
	ALG5 504L85			850	1270
	ALG5 504L105			1050	1586
	ALG5 504L125			1250	1902

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