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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.: **80585-034**

Date of issue: Wien, 2024 02 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: **Floodlights**

Trade Mark: **THORN**

Series/Type: **Series Areaflood PRO 2 (AFP2 ... CL2 ...)**

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>	AFP2 S 24L..., AFP2 S 36L..., AFP2 S 48L..., AFP2 M 60L..., AFP2 M 72L..., AFP2 M 96L..., AFP2 L 108L..., AFP2 L 120L..., AFP2 L 144L..., AFP2 2M 192L..., see type code on page 5.
<i>Prüfbericht Test Report</i>	TR 80585-0046-02 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Ersatz für Zertifikat Superseded licence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>	 -Marking for luminaires safety to ball throwing according DIN VDE 0710 Teil 13:1981-05.

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<i>Nennspannung</i> <i>Rated voltage</i>	AC 230 V, 50/60 Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	see page 6
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R12 (12 LEDs) or LEM R36 (36 LEDs)
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluss</i> <i>Supply connection</i>	Screwless terminals or pre-wired
<i>Befestigungsfläche</i> <i>Supporting surface</i>	Normally flammable surface
<i>Schutzklasse</i> <i>Class of protection</i>	CI.II
<i>Umgebungstemperatur ta</i> <i>Rated ambient temperature ta</i>	25°C, 35°C or 50°C, see page 6
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Series AFP2 (Areaflood Pro 2) available in 4 sizes: Small, Medium, Large and Double Medium (2 Medium sizes paired together), from 24 to 192 LEDs. Various light distribution, LCO LED drivers Advance, Excite and Premium Outdoor series, driving LEDs current up to 850mA. Body: die-cast aluminium Enclosure: 4mm or 5mm thick toughened glass. Reversible mounting stirrup supplied.
<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 60/200–1050/100	ENEC 11
	B	Tridonic	LCO 60/200–1050/100 PRE3	ENEC 11
	B	Tridonic	LCO 90/200–1050/165	ENEC 11
	B	Tridonic	LCO 90/200–1050/165 PRE3	ENEC 11
	B	Tridonic	LCO 135/200–1050/220	ENEC 11
	B	Tridonic	LCO 135/200–1050/220 PRE3	ENEC 11
	B	Tridonic	LCO 165/200–1050/285	ENEC 11
	B	Tridonic	LCO 165/200–1050/285 PRE3	ENEC 11
	B	Tridonic	LCO 200/200–1050/355	ENEC 11
B	Tridonic	LCO 200/200–1050/355 PRE3	ENEC 11	
<i>Base</i>	B	Tyco	2213858-1	CB US-34131-M1-UL
	B	Tyco	2213362-4	CB US-34131-M1-UL
<i>Internal wiring</i>	B	Omerin	RECSC 300V; 180°C; double insulated	VDE
	B	BLF	SiIHSil U 300V; 180°C; double insulated	VDE
	B	BLF	SIL/0100 U-T2 300V; 180°C	VDE
	B	Leoni	LI2X-U 300/500V; 110°C	BBJ
	B	BLF	UG4G4 0,75mm²; 450/750V; 180°C; double insulated	IMQ
<i>LED module</i>	A*	THORN	LEM R12 max. 1050mA, RG2, tc=105°C	ÖVE
	A*	THORN	LEM R36 max. 1050mA, RG2, tc=105°C	ÖVE
<i>Terminals</i>	A	Electro Terminal	SLK/3 450V, 24A, T85	ENEC 11
<i>SPD</i>	A	Citel	MLPC1-230L-R	IMQ
<i>Cable Gland</i>	A	Bimed	BMOS-22 IP68, 100°C	VDE
<i>External wiring</i>	A	Pesco Cavi	H07RN-F 3G1,5mm²	IMQ
	A	Pesco Cavi	H07RN-F 5G1,5mm²	IMQ
	A	Pesco Cavi	H07RN-F 4G1,5mm²	IMQ
<p>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.</p>				

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Typecode:

AFP2 **L** **CL2**

	Ambient Temperature (T_a)
	InT 25°C for indoor applications
	InMT 35°C for indoor applications
	OuMT 35°C for outdoor applications
	OuHT 50°C for outdoor applications
	Environment
	SWP Swimming Pools
	Color
	GY Light grey texturized
	ANT Anthracite texturized
	BK Black texturized
	Rxxxx RALxxxx
	CL2 Protection class II
	Pre-Wiring (optional)
	WSxx Pre-wired, length 1-16m, 1,5mm ²
	WTxx Pre-wired, length 3-16m, 2,5mm ²
	DSxx Pre-wired, length 3-16m, 1,5mm ² , DACH region
	SP with Surge Protective Device (optional)
	HFX DALI dimmable (optional)
	Driver
	BPL Bi-Power Power Line
	LRT Light Reduction Twin Phases
	BSxxx Bi-Power switchable
	BPxxx Bi-Power
	Controls (optional)
	N7 Integral Nema photocell facility
	ZU with Zhaga socket Up
	ZD with Zhaga socket Down
	ZUD with Zhaga socket Up & Down
	CLO Constant Light Output (optional)
	H High transmission glass (optional)
	Optics
	Photometric code
	727, 730, 740, 757 CRI 70,
	827, 830, 840, 857 CRI 80,
	957-T86 CRI 90 5700K – TLCI 86
	957-T90 CRI 90 5700K – TLCI 90
	827-57 CRI 80, balanced between 2700K and 5700K
	Current of LED module
	35 350mA (only Size S, M, L)
	50 500mA
	70 700mA
	80 800mA (only type 144L)
	85 850mA (only type 96L)
	Number of LEDs
	24L, 36L, 48L (Size S)
	60L, 72L, 96L (Size M)
	108L, 120L, 144L (Size L)
	192L (Size 2M)
	Size
	S Small
	M Medium
	L Large
	2M Double Medium
	Series Areaflood Pro 2

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Typelist, thermal and electrical specification:

Series	Size	Type	Built-in LED modules	No. of LEDs	Module current	Rated input power	Rated ambient temperature (ta)		
					[mA]	[W]	indoor	outdoor	
					[°C]				
Aeroflood Pro 2	Small	AFP2 S 24L35	2x LEM R12	24	350	26	35	50	
		AFP2 S 24L50			500	37			
		AFP2 S 24L70			700	52			
		AFP2 S 36L35	1x LEM R36	36	350	39	35	50	
		AFP2 S 36L50			500	55	35	35	
		AFP2 S 36L70			700	76	35	50	
		AFP2 S 48L35	1x LEM R36 1x LEM R12	48	350	50	35	50	
		AFP2 S 48L50			500	71			
	AFP2 S 48L70	700			100	35			35
	Medium	AFP2 M 60L35	1x LEM R36 2x LEM R12	60	350	63	35	50	
		AFP2 M 60L50			500	89			
		AFP2 M 60L70			700	126			35
		AFP2 M 72L35	2x LEM R36	72	350	75	35	50	
		AFP2 M 72L50			500	107			
		AFP2 M 72L70			700	150			35
		AFP2 M 96L35	2x LEM R36 2x LEM R12	96	350	99	35	50	
		AFP2 M 96L50			500	142			
	AFP2 M 96L70	700			197	25			25
	AFP2 M 96L85	850			245	35			25
	Large	AFP2 L 108L35	3x LEM R36	108	350	109	35	50	
		AFP2 L 108L50			500	156			
		AFP2 L 108L70			700	225			35
		AFP2 L 120L35	3x LEM R36 1x LEM R12	120	350	121	35	50	
		AFP2 L 120L50			500	173			
		AFP2 L 120L70			700	249			35
		AFP2 L 144L35	3x LEM R36 3x LEM R12	144	350	150	35	35	
		AFP2 L 144L50			500	213			
	AFP2 L 144L70	700			297	25			25
AFP2 L 144L80	800	337			35	25			
Double Medium	AFP2 2M 192L50	4x LEM R36 4x LEM R12	192	500	276	25	25		
	AFP2 2M 192L70			700	392				

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