

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 European Mark



Licence No.: **85175-041**

Date of issue: Wien, 2024 03 01

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: **Thorn Lighting Ltd**
Durhamgate, Spennymoor,
County Durham
DL16 6HL
United Kingdom

Product: **Luminaires with limited surface temperatures**

Trade Mark: **THORN**

Series/Type: **HIPAK G4**

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
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>	HIPAK G4 S LED 10000 ..., HIPAK G4 S LED 15000 ..., HIPAK G4 M LED 20000 ..., HIPAK G4 M LED 25000 ..., HIPAK G4 L LED 30000 ..., HIPAK G4 L LED 35000 ..., see type code on page 5.
<i>Prüfbericht Test Report</i>	TR 85175-0047-01 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 ÖVE/ÖNORM EN 60598-2-24:2014-05-01
<i>Europannorm(en) European Standard(s)</i>	EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022 EN 60598-2-24:2013
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	--

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<i>Nennspannung</i> <i>Rated voltage</i>	AC 220-240 V, 50/60 Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	1x LED module IL.. per luminaire
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules IL60, IL90, IL120, IL150, IL180 or IL200.
<i>Schutzgrad</i> <i>Degree of protection</i>	IP65
<i>Netzanschluss</i> <i>Supply connection</i>	Screwless terminals
<i>Befestigungsfläche</i> <i>Supporting surface</i>	Normally flammable surface
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I
<i>Umgebungstemperatur ta</i> <i>Rated ambient temperature ta</i>	50°C 45°C for variants with MWS / BC / PIR (see page 5)
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	High bay luminaire with two light distributions: Wide beam (WB) and rack beam (RK) light distributions and specially designed reflectors. Surface-mounted, suspended or wall mounting possibilities. Quick connectors, Wireless communication (basicDIM), Passive infrared sensors, Microwave Sensor, DALI dimmable, DALI-2 (D4i).
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 1 (low 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 driver</i>	B	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	ENEC 11
	B	Tridonic	LCO 60/200-1050/100 pD+ NF C PRE3	ENEC 11
	B	Tridonic	LCO 90/200-1050/165 NF C ADV3	ENEC 11
	B	Tridonic	LCO 90/200-1050/165 04a NF C EXC3	ENEC 11
	B	Tridonic	LCO 90/200-1050/165 pD+ NF C PRE3	ENEC 11
	B	Tridonic	LCO 135/200-1050/220 NF C ADV3	ENEC 11
	B	Tridonic	LCO 135/200-1050/220 pD+ NF C PRE3	ENEC 11
	B	Tridonic	LCO 165/200-1050/285 o4a NF C EXC3	ENEC 11
	B	Tridonic	LCO 165/200-1050/285 pD+ NF C PRE3	ENEC 11
	B	Tridonic	LCO 200/200-1050/355 NF C ADV3	ENEC 11
	B	Tridonic	LCO 200/200-1050/355 o4a NF C EXC3	ENEC 11
B	Tridonic	LCO 200/200-1050/355 pD+ NF C PRE3	ENEC 11	
<i>LED module</i>	A*	LEDLUCKY	IL60-2835-0924-XX-VX tc=95°C; RG1; 1,05A	ENEC 05
	A*	LEDLUCKY	IL90-2835-1518-XX-VX tc=95°C; RG1; 0,95A	ENEC 05
	A*	LEDLUCKY	IL120-2835-2218-XX-VX tc=95°C; RG1; 0,85A	ENEC 05
	A*	LEDLUCKY	IL150-2835-2616-XX-VX tc=95°C; RG1; 0,95A	ENEC 05
	A*	LEDLUCKY	IL180-2835-3614-XX-VX tc=95°C; RG1; 0,80A	ENEC 05
	A*	LEDLUCKY	IL200-2835-3416-XX-VX tc=95°C; RG1; 1,00A	ENEC 05
<i>Supply terminal with gland</i>	B	Shenzhen Weichat Technology	EW-P25 0,5-1,5mm²; IP68; 105°C; 5-poles	TÜV-SÜD
<i>LED wire connector</i>	B	TE	2834054 / 2834055 600V, 3A	CB_HU-002073
<i>Internal wiring</i>	B	Shenzhen Xinlian Wire&Cable	600V; 105°C; 18 AWG	UL E502584
<i>Wireless OTD</i>	B	Tridonic	basicDIM Wireless OTD	ENEC 11
<i>Sensor PIR</i>	B	Tridonic	MSensor G3 SFI 30 PIR 16DPI	ENEC 11
<i>MWS Sensor</i>	B	LEDLUCKY	HD06VCRH DC 12-24V; tc=70°C; IP65	CB_NL-88959
<i>ZHAGA Socket</i>	B	Tyco	X-2213858 1,5A; 30V	CB_US-34131-M2- UL
<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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Type code:

HIPAK G4 . LED. QC5

Quick Connect – 5 pole

Controls

HF..... Fixed output
HFI..... DALI/DSI dimmable
HFIX DALI dimmable
PIRBC ... PIR Sensor and Wireless Control
PIRDA ... Motion sensor corridor (DALI dimmable)
MWS..... Microwave Sensor (remote control)

Optics

RK Rack distribution
WB..... Wide beam

Photometric code

840 CRI 80, 4000K

Lumen Output (nominal)

10000, 15000, 20000, 25000, 30000, 35000

Size

S Small Ø 280mm
M Medium Ø 320mm
L Large Ø 380mm

Series

Type list:

Type	Power	Dimension	LED module (type)	Module current
	[W]	[mm]		[A]
HIPAK G4 S LED10000-...	56,8	Ø 280 x 170	IL60..	1,05
HIPAK G4 S LED15000-...	85,6		IL90..	0,95
HIPAK G4 M LED20000-...	110,2	Ø 320 x 170	IL120..	0,85
HIPAK G4 M LED25000-...	146,7		IL150..	0,95
HIPAK G4 L LED30000-...	170,6	Ø 380 x 170	IL180..	0,80
HIPAK G4 L LED35000-...	202,6		IL200..	1,00

Accessories:

Mounting Components

HIPAK G4 AL Refractor Large (Aluminium)
HIPAK G4 AL Refractor Medium (Aluminium)
HIPAK G4 AL Refractor Small (Aluminium)
HIPAK G4 PC Refractor Large (Polycarbonate)
HIPAK G4 PC Refractor Medium (Polycarbonate)
HIPAK G4 PC Refractor Small (Polycarbonate)

Reflectors

HIPAK G4 ROD 1m + ceiling rose
HIPAK G4 suspension bracket (L)
HIPAK G4 suspension bracket (M)
HIPAK G4 suspension bracket (S)
HIPAK G4 wire suspension

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