LICENCE

to use the European Mark

Licence No. **85175-001**   Date of issue: Wien, 2016 07 27
                                             Rev. No. 01   Wien, 2018 03 09

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

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

Product: **Ceiling recessed LED Downlight luminaire**

Trade Mark: **THORN**

Series/Type: **CHALICE LED**

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 Testing & Certification

Digitally signed by W. Martin
Email=w.martin@ove.at
Dipl.-Ing. W. Martin

OVE Testing & Certification
Accredited by the Federal Ministry of Science, Research and Economy as Certification Body for products within the scope as given in the official decree and published under www.en.bmwfw.gv.at/accreditation

	Hersteller *Manufacturer*	**Thorn Lighting Ltd** **Durhamgate, Spennymoor,** **County Durham** **DL16 6HL** **United Kingdom**
	Fertigungsstätte(n) *Factory location(s)*	**Thorn Lighting Ltd** **Durhamgate, Spennymoor,** **County Durham** **DL16 6HL** **United Kingdom**
*	*Typenbezeichnung* *Type reference*	**CHAL 150 LED ...,** **CHAL 200 LED ..., see page 5.**
*	*Prüfbericht* *Test Report* *Nationale Bestimmung(en)* *National Standard(s)* *Europanorm(en)* *European Standard(s)*	**TR 85175-0001-01 ECS,** **TR 85175-0001-01a ECS.** **ÖVE/ÖNORM EN 60598-1:2015-11-01** **ÖVE/ÖNORM EN 60598-2-2:2012-11-01** **EN 60598-1:2015** **EN 60598-2-2:2012**
*	*Ersatz für Zertifikat* *Superseded licence*	**85175-001 dated 2016 07 27** **Items modified are marked with an asterisk (*)**
*	*Anmerkung(en)* *Remark(s)*	**SMT-procedure**

Nennspannung *Rated voltage*	**220-240 V, 50/60 Hz**
Anzahl und Leistung der Lampen *Rated wattage and number of lamps*	**1x LED module**
Lampentyp(en) *Lamp identification*	**LED modules LEM Q20, LEM Q44 or LEM Q64**
Schutzgrad *Degree of protection*	**IP20 (above ceiling parts) / IP54 (below ceiling parts)**
Netzanschluss *Supply connection*	**Screw- or screwless terminals (from independent control gear)**
Befestigungsfläche *Supporting surface*	**Normally flammable surface** **Not suitable for covering with thermally insulating material**
Schutzklasse *Class of protection*	**Cl.II**
Beschreibung des Aufbaus *Description of construction*	**Ceiling recessed LED Downlight luminaire with fixed LED module, fixed ouput & dimmable HF drivers.** **Basic luminaire construction comprises a painted aluminium body with moulded polycarbonate rear cover, reflector (aluminised) & diffuser. Bodies are available in 2 sizes; 150mm & 200mm diameter.** **A custom LED module & moulded polycarbonate mixing chamber insert are fitted directly to body. An independent LED control gear module (driver) is fitted. LED boards & control gear are common to equivalent variants in both 200 & 150mm body sizes.** **Luminaires are recessed ceiling grid mounted, using sprung side arms.**
* *Zusatzinformation* *Additional information*	**Classified within limits of risk group 1 (low risk) according EN 62471:2008.**

Bauteil / Component	Code / Code	Hersteller / Manufacturer	Typenbezeichnung / Type Reference	Konformitätszeichen / Mark(s) of conformity
LED driver	B	Tridonic	LCI…TEC SR	ENEC 11
	B	Tridonic	LCI…ECO SR	ENEC 11
*	B	Thorn	LC 20W 700mA fixC SR	TÜVRheinland
*	B	Thorn	LC 20W 500mA fixC SR	TÜVRheinland
*	B	Thorn	LC 35W 1050mA fixC SR	TÜVRheinland
LED module	B	Zumtobel	LEM Q20 ...	ÖVE
	B	Zumtobel	LEM Q44 ...	ÖVE
	B	Zumtobel	LEM Q64 ...	ÖVE
Connector cable	C	Salcavi	LSOH UZ10Z1-105 300/500V	Checked within appliance
Supply connector	B	Wieland	GST 18i...	VDE
	B	Wago	Winsta Midi 770-...	VDE
Supply plug	B	Kaiser	SCHUKO plug	ÖVE
Supply cable	A	Ta-An	H05VV-F 2x1.0mm²	ÖVE

A   The component is replaceable with another one, also certified, with equivalent characteristics.
B   The component is replaceable if authorised by the test house.
C   Integrated component tested together with the appliance.
D   Alternative component.

OVE
Österreichischer Verband für Elektrotechnik

Typelist:

Chalice 200 Luminaire Range	
Type Description	**Circuit type**
CHAL 200 LED 1400-xxx HF	Fixed output
CHAL 200 LED 2000-xxx HF	Fixed output
CHAL 200 LED 3000-xxx HF	Fixed output
CHAL 200 LED 1400-xxx HFIX	Dimmable
CHAL 200 LED 2000-xxx HFIX	Dimmable
CHAL 200 LED 3000-xxx HFIX	Dimmable

Chalice 150 Luminaire Range	
Type Description	**Circuit type**
CHAL 150 LED 1400-xxx HF	Fixed output
CHAL 150 LED 2000-xxx HF	Fixed output
CHAL 150 LED 3000-xxx HF	Fixed output
CHAL 150 LED 1400-xxx HFIX	Dimmable
CHAL 150 LED 2000-xxx HFIX	Dimmable
CHAL 150 LED 3000-xxx HFIX	Dimmable

Variations & Accessories:

Reflector Types:
RSB = Satin finish metallised polycarbonate
RMB = Specular finish metallised polycarbonate

LED colour Types (xxx):
830 = Ra80, 3000K
840 = Ra80, 4000K

Optional Attachments:
Chalice E200 Drop Down Frosted Ring
Chalice E150 Drop Down Frosted Ring

Optional Factory Fitted Supply Cables:
WL3 = Cable with 3 pole Wieland plug
WL5 = Cable with 5 pole Wieland plug
WO5 = Cable with 5 pole Wago plug
SR2 = Cable with Schuko plug
FP = Cable with 2-pin plug for Aus/NZ region