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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. **85175-027**

Date of issue: Wien, 2018 11 21

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: **Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **Flow**

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 for Digital and Economic Affairs as Certification Body for products within the scope as given in the official decree and published under www.bmdw.gv.at/akkreditierung.



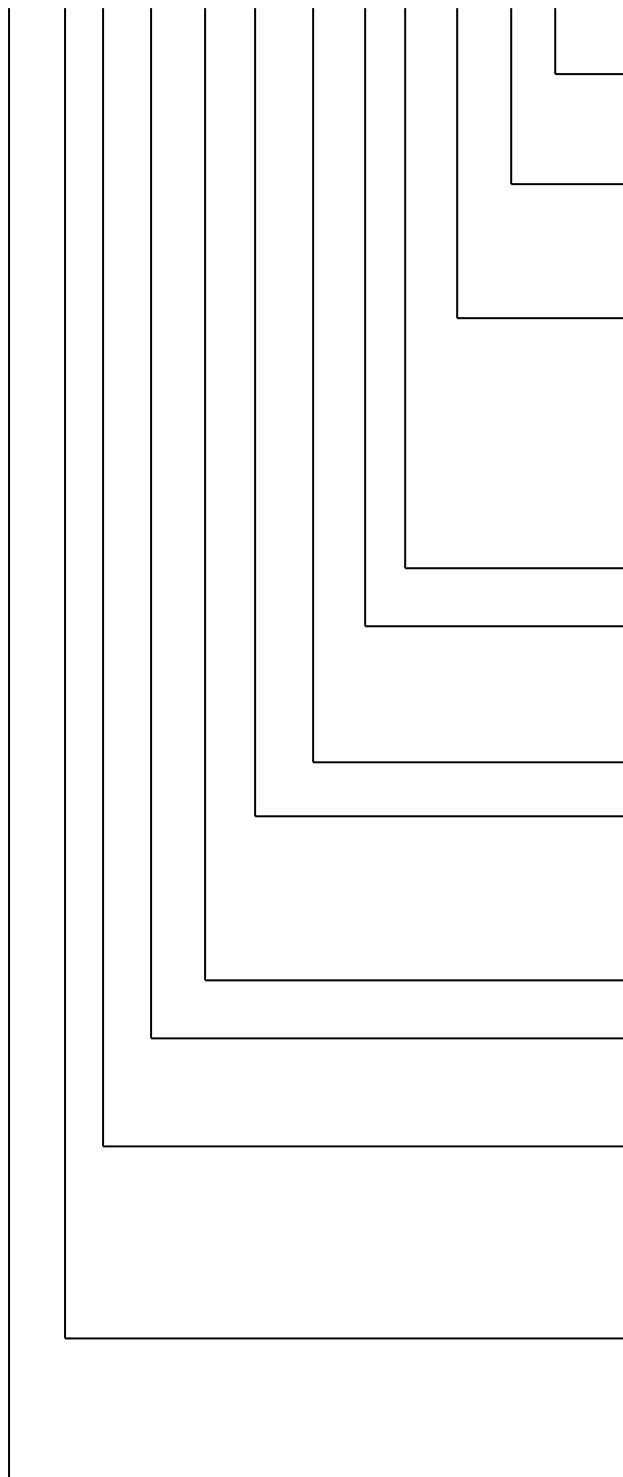
<i>Hersteller Manufacturer</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
<i>Fertigungsstätte(n) Factory location(s)</i>	Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom
<i>Typenbezeichnung Type reference</i>	FW ..L ... CL1 ..., see also page 5.
<i>Prüfbericht Test Report</i>	TR 85175-0031-01 ECS
<i>Nationale Bestimmung(en) National Standard(s)</i>	ÖVE/ÖNORM EN 60598-1:2015-11-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01
<i>Europannorm(en) European Standard(s)</i>	EN 60598-1:2015 EN 60598-2-3:2003 + A1:2011
<i>Ersatz für Zertifikat Superseded licence</i>	--
<i>Anmerkung(en) Remark(s)</i>	CTF Stage 3

<i>Nennspannung</i> <i>Rated voltage</i>	220-240 V, 50/60 Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	FW 12L: 1x LEM R12, FW 24L: 2x LEM R12, FW 36L: 1x RLE36.
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules LEM R12 37W ... 49x147 (ILCOS: DSL) and RLE36 ... 149x147 (ILCOS: DSH)
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<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>Beschreibung des Aufbaus</i> <i>Description of construction</i>	Luminaire is fitted with LED PCB's & optical clusters for light distribution. There are 5 mounting brackets allowing 6 fixing positions. Internal tool free gear tray. Enclosure: Die cast aluminium. Flat Glass is glued to casting.
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 2 (moderate risk) according 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.

<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	LCA 120W C PRE OTD	ENEC 11
	B	Tridonic	LCA 75W C PRE OTD	ENEC 11
	B	Tridonic	LCA 60W C PRE OTD	ENEC 11
	B	Tridonic	LCA 30W C PRE OTD	ENEC 11
<i>SPD</i>	B	Citel	MLPC1-230L-5	CB_HU-001850
<i>Terminals</i>	A	Electro Terminal	SLK 3 450V, 24A, T110	ENEC 10
<i>Multipolar Disconnecter</i>	C	MT Light Tech	5 poles 250V; 6A; T140°C	Checked within appliance
<i>Internal wiring</i>	A	BLF	SIL0100 U 300V; 0,75mm²; 180°C	VDE
	A	BLF	SILHSil U 300V; 0,75mm²; 180°C	VDE
<i>Mains supply cable</i>	A	Interchangeable	H07RN-F	HAR
<i>Cable Gland</i>	A	Bimed Tecknic	BMOS-EU-22 IP 66; 100°C	VDE
<i>LED Modules</i>	A*	Thorn	LEM R12... 3000K/4000K; 1050mA	ÖVE
	A*	Thorn	RLE36... 3000K/4000K; 1050mA	ÖVE
<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 OD-5002-3:2015 B The component is replaceable if authorised by the test house. C Integrated component tested together with the appliance. D Alternative component.</p>				

Typecode:

FW **CL1**



Colour of luminaire

ANT Texturised dark grey full body included spigot and body
Rxxxx.....RALxxxx

Wiring (optional)

blank.....not pre-wired
W6.....6m pre-wired
... ..XXm wiring

Mounting

T60FD60 street spigot to be post top mounted +5° tilt
L60ED60 street spigot to be lateral mounted 0° tilt
MTPA.....Amenity D60 bracket to be post top mounted
T76FSpigot D76 to be post top mounted +5° tilt
L42ESpigot D42 to be lateral mounted 0° tilt
MSUSuspended - 34G
MCACatenary suspension

HFXDALI dimmable

Optional:

blank.....Clear glass
LVInternal louvers
PRAdditional comfort foil (glare control)

CL1.....Protection class I

Options

BPSBP switch (On/Off)
CLOConstant Light Output
LRT.....Light Reduction Twin phases
SP.....Additional Surge protection device

Optics

Photometric code

L7303000K, CRI 70
L7404000K, CRI 70

Current of LED module

35350mA
50500mA
70700mA
85850mA
1051050mA

Number of LEDs

12L12 LEDs
24L24 LEDs
36L36 LEDs

Series FLOW