

OVE Austrian Electrotechnical Association
Eschenbachgasse 9, 1010 Wien, Austria
ZVR: 327279890 | DVR: 1055887 | www.ove.at

OVE Testing & Certification
Kahlenberger Str. 2A, 1190 Wien, Austria
T +43 1 370 58 06 | F +43 1 370 58 06-199



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. **85175-010**

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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: **Gamma LED CI.I**

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



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p>Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom</p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom</p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>GAMMA 24L...-..., see page 5 of Annex</p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p>TR 85175-0004-01 ECS</p>
<p><i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i></p>	<p>ÖVE/ÖNORM EN 60598-1:2015-11-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01</p>
<p><i>Europannorm(en)</i> <i>European Standard(s)</i></p>	<p>EN 60598-1:2015 EN 60598-2-3:2003 + A1:2011</p>
<p><i>Ersatz für Zertifikat</i> <i>Superseded licence</i></p>	<p>--</p>
<p><i>Anmerkung(en)</i> <i>Remark(s)</i></p>	<p>SMT-procedure</p>

<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>	2x LED module RLE 49 (12 LEDs each, max. 700mA)
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED module (DSL-23,1-L)
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluß</i> <i>Supply connection</i>	Screwless terminals (with supply cable installed at factory)
<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>	Post mount outdoor pedestrian walkway luminaire with frosted optic, available in base diameters 60mm & 76mm. With 24 LEDs, 3000K or 4000K. Distributions: Street symmetric, Wide street asymmetric, Narrow road asymmetric
<i>Zusatzinformation</i> <i>Additional information</i>	Classified within limits of risk group 1 (low risk) according to EN 62471:2008.

<i>Bauteil</i> <i>Component</i>	<i>Code</i> <i>Code</i>	<i>Hersteller</i> <i>Manufacturer</i>	<i>Typenbezeichnung</i> <i>Type Reference</i>	<i>Konformitätszeichen</i> <i>Mark(s) of conformity</i>
<i>LED control gear</i>	B	Osram	OT 60/170-240/1A0 4DIMLT2 E	ENEC 10
<i>LED module</i>	B	Thorn	STARK RLE49	OVE
<i>Terminals</i>	A	Electro Terminal	SLK3 450V; 2,5mm²; T110; 16A	VDE
<i>Internal wiring</i>	A	BLF	SIL/0100 U-T2 300V; 180°C	VDE
<i>Supply cable</i>	A	Interchangeable	H07RN-F 3G1,5mm²	HAR

- 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.

Product Range Series Gamma LED CL1

Type Designation	No. of LEDs / Module current
GAMMA 24L70-730 SC-S BP CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-740 SC-S BP CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-730 SC-S BP CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-740 SC-S BP CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-730 SC-S CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-740 SC-S CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-730 SC-S CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-740 SC-S CL1 W5M D76 GY	24 / 700mA
GAMMA 24L35-730 SC-S BP CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-740 SC-S BP CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-730 SC-S BP CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-740 SC-S BP CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-730 SC-S CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-740 SC-S CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-730 SC-S CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-740 SC-S CL1 W5M D76 GY	24 / 350mA
GAMMA 24L70-730 WS-A BP CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-740 WS-A BP CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-730 WS-A CL1 W5M D60 GY	24 / 700mA
GAMMA 24L70-740 WS-A CL1 W5M D60 GY	24 / 700mA
GAMMA 24L35-730 WS-A BP CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-740 WS-A BP CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-730 WS-A CL1 W5M D60 GY	24 / 350mA
GAMMA 24L35-740 WS-A CL1 W5M D60 GY	24 / 350mA
GAMMA 24L70-730 NR-A BP CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-740 NR-A BP CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-730 NR-A CL1 W5M D76 GY	24 / 700mA
GAMMA 24L70-740 NR-A CL1 W5M D76 GY	24 / 700mA
GAMMA 24L35-730 NR-A BP CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-740 NR-A BP CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-730 NR-A CL1 W5M D76 GY	24 / 350mA
GAMMA 24L35-740 NR-A CL1 W5M D76 GY	24 / 350mA

Variants:

24L70 24 LEDs (Module current 700mA)

24L35 24 LEDs (Module current 350mA)

SC-S 'Street comfort' clusters / Symmetric arrangement of clusters

WS-A 'Wide street' clusters / Asymmetric arrangement of clusters

NR-A 'Narrow road' clusters / Asymmetric arrangement of clusters

BP 'Bi-Power' dimming

CL1 Electrical class I

W5M Pre-wired, 5m length

D60 Post mount diameter 60mm

D76 Post mount diameter 76mm

GY Grey colour