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ENEC Certification Body registered under ID # 11.

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# LICENCE

to use the European Mark



Licence No.: **80585-032**

Date of issue: Wien, 2022 06 14

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: **ZG Lighting France**  
Route de Paix  
27700 Les Andelys  
France

Product: **Luminaire for road and street lighting**

Trade Mark: **THORN**

Series/Type: **Series Plurio Indirect (PLI . 24L.. ... 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

Digitally signed by T. Neumayer  
Email=t.neumayer@ove.at

Dipl.-Ing. T. Neumayer



## OVE 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 <https://akkreditierung-austria.gv.at>.



|  |  |
|--|--|
| <p><i>Hersteller</i><br/><i>Manufacturer</i></p>                       | <p><b>Thorn Lighting Ltd</b><br/><b>Durhamgate, Spennymoor,</b><br/><b>County Durham</b><br/><b>DL16 6HL</b><br/><b>United Kingdom</b></p> |
| <p><i>Fertigungsstätte(n)</i><br/><i>Factory location(s)</i></p>       | <p><b>ZG Europhane</b><br/><b>Route de Paix</b><br/><b>27700 Les Andelys</b><br/><b>France</b></p>   |
| <p><i>Typenbezeichnung</i><br/><i>Type reference</i></p>               | <p><b>PLI . 24L-.. ...</b><br/><b>see type code on page 5.</b></p>   |
| <p><i>Prüfbericht</i><br/><i>Test Report</i></p>                       | <p><b>TR 80585-0022-02 ECS</b></p>   |
| <p><i>Nationale Bestimmung(en)</i><br/><i>National Standard(s)</i></p> | <p><b>OVE EN IEC 60598-1:2022-04-01</b><br/><b>ÖVE/ÖNORM EN 60598-2-3:2012-01-01</b></p>   |
| <p><i>Europannorm(en)</i><br/><i>European Standard(s)</i></p>          | <p><b>EN IEC 60598-1:2021</b><br/><b>EN IEC 60598-1:2021/A11:2022</b><br/><b>EN 60598-2-3:2003 + A1:2011</b></p>                           |
| <p><i>Ersatz für Zertifikat</i><br/><i>Superseded licence</i></p>      | <p>--</p>  |
| <p><i>Anmerkung(en)</i><br/><i>Remark(s)</i></p>                       | <p><b>CTF Stage 3.</b></p>   |

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|   |  |
|---|--|
| <i>Nennspannung</i><br><i>Rated voltage</i>                                       | <b>230-240V, 50-60Hz</b>   |
| <i>Anzahl und Leistung der Lampen</i><br><i>Rated wattage and number of lamps</i> | <b>1x LEM R24</b>  |
| <i>Lampentyp(en)</i><br><i>Lamp identification</i>                                | <b>LED modules LEM R24 (24 LEDs) at max. 700 mA.</b>   |
| <i>Schutzgrad</i><br><i>Degree of protection</i>                                  | <b>IP66</b>  |
| <i>Netzanschluss</i><br><i>Supply connection</i>                                  | <b>Screwless terminals, or pre-wired</b>   |
| <i>Befestigungsfläche</i><br><i>Supporting surface</i>                            | <b>Normally flammable surface</b>  |
| <i>Schutzklasse</i><br><i>Class of protection</i>                                 | <b>CI.II</b>   |
| <i>Umgebungstemperatur ta</i><br><i>Rated ambient temperature ta</i>              | <b>25°C</b>  |
| <i>Beschreibung des Aufbaus</i><br><i>Description of construction</i>             | <b>Decorative post-top lantern with several canopy shapes.<br/>Base: Cast aluminium, powder coated.<br/>Diffuser: Clear UV stabilized PC with anti-glare prisms.<br/>Indirect reflector based optic.</b> |
| <i>Zusatzinformation</i><br><i>Additional information</i>                         | <b>Classified within limits of as risk group 1 (low risk)<br/>according to EN 62471:2008.</b>  |

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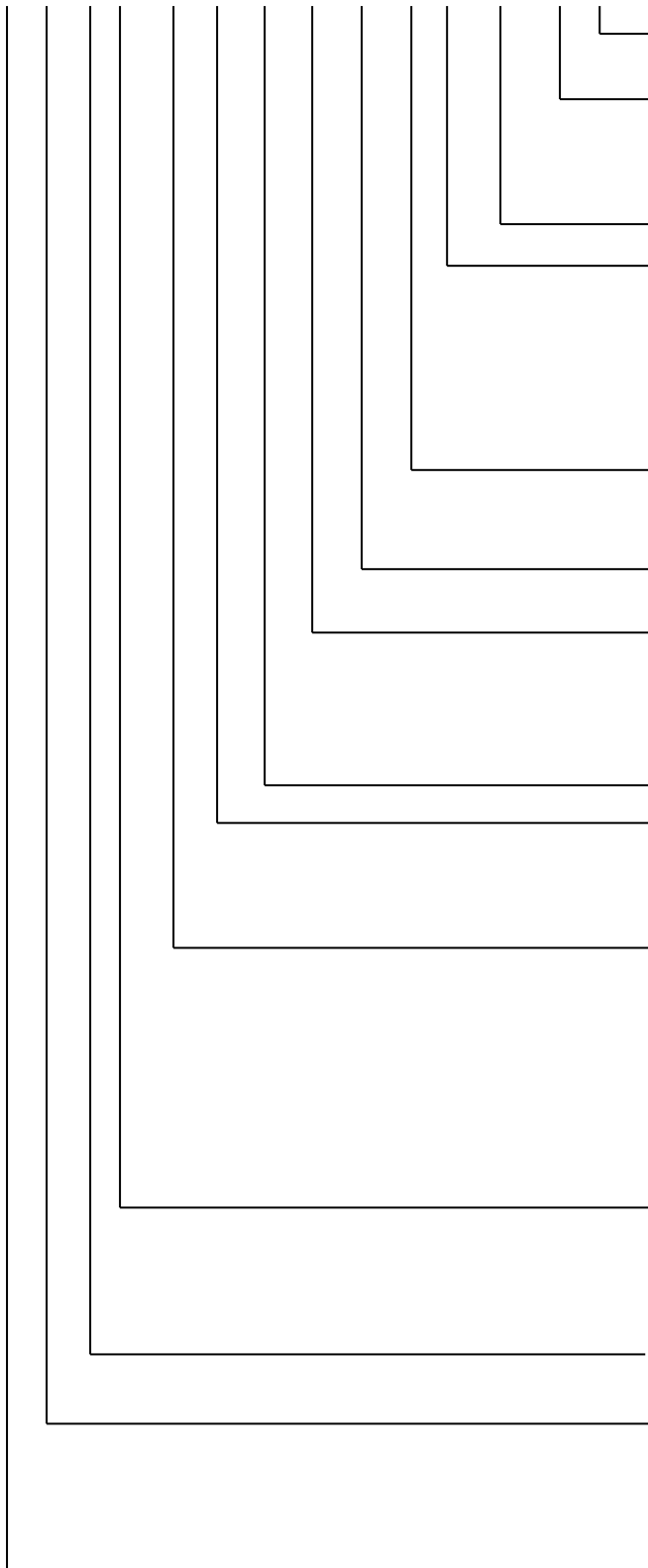
| <i>Bauteil</i><br><i>Component</i> | <i>Code</i><br><i>Code</i> | <i>Hersteller</i><br><i>Manufacturer</i> | <i>Typenbezeichnung</i><br><i>Type Reference</i>              | <i>Konformitätszeichen</i><br><i>Mark(s) of conformity</i> |
|------------------------------------|----------------------------|--|---|--|
| <i>LED control gear</i>            | <b>B</b>                   | <b>Tridonic</b>                          | <b>LCO 40/200–1050/64</b>                                     | <b>ENEC 11</b>   |
|                                    | <b>B</b>                   | <b>Tridonic</b>                          | <b>LCO 60/200–1050/100</b>                                    | <b>ENEC 11</b>   |
| <i>LED Module</i>                  | <b>A*</b>                  | <b>THORN</b>                             | <b>LEM R24</b><br><b>max. 1050mA, RG2, tc=105°C</b>           | <b>ÖVE</b>   |
| <i>Terminals</i>                   | <b>A</b>                   | <b>Electro Terminal</b>                  | <b>SLK3</b><br><b>450V, 24A, T85</b>                          | <b>ENEC 10</b>   |
|                                    | <b>D</b>                   | <b>BJB</b>                               | <b>46.412</b><br><b>450V, 24A, T85</b>                        | <b>ENEC 10</b>   |
| <i>Internal wiring</i>             | <b>B</b>                   | <b>BLF</b>                               | <b>UG4G4</b><br><b>450/700V; 0,75mm<sup>2</sup>; 180°C</b>    | <b>IMQ</b>   |
|                                    | <b>B</b>                   | <b>BLF</b>                               | <b>SIL/0100</b><br><b>300V; 0,75mm<sup>2</sup>; 180°C</b>     | <b>VDE</b>   |
| <i>Connector</i>                   | <b>A</b>                   | <b>Adels-Contact</b>                     | <b>160 / 163</b><br><b>2,5mm<sup>2</sup>; 400V; 16A; 70°C</b> | <b>VDE</b>   |
| <i>External wiring</i>             | <b>A</b>                   | <b>Nexans</b>                            | <b>H07RN-F 1,5mm<sup>2</sup></b>                              | <b>HAR</b>   |

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.

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**PLI . 24L.. - ..... .. CL2 ... ..**



**Variant (optional)**

U0 ..... ULOR 0 variant

**Colour**

ANT ..... Texturized anthracit

GY ..... Texturized light grey

BK ..... Texturized black

**CL2** ..... Protection class II

**Wiring**

D5 ..... Pre-wired 5m, 1,5mm<sup>2</sup>

D6 ..... Pre-wired 6m, 1,5mm<sup>2</sup>

D8 ..... Pre-wired 8m, 1,5mm<sup>2</sup>

W5 ..... Pre-wired 5m, 1,5mm<sup>2</sup>

W6 ..... Pre-wired 6m, 1,5mm<sup>2</sup>

W8 ..... Pre-wired 8m, 1,5mm<sup>2</sup>

**Spigot**

T60 ..... 60mm spigot

T76 ..... 76mm spigot

**DALI (optional)**

**HFX** ..... DALI dimmable

**Bi-Power light reduction**

LRT ..... Light reduction twin-phase

BPS ..... Bi power switchable

BP ..... Bi power

MLD1 ..... Multi-layers dimming scenario

**CLO** ..... **Constant Light Output (optional)**

**Optics**

R/S ..... Rotational Symmetrical

EWC ..... Extra-Wide Comfort Asymmetrical

EWC-B ..... Extra-Wide Comfort Asymmetrical with backlight

**Photometric code**

722 ..... 2200K, CRI 70

727 ..... 2700K, CRI 70

730 ..... 3000K, CRI 70

740 ..... 4000K, CRI 70

827 ..... 2700K, CRI 80

830 ..... 3000K, CRI 80

840 ..... 4000K, CRI 80

722-40 ..... Night Tune Dim 2200K to 4000K, CRI70

**Current of LED module**

25 ..... 250mA

35 ..... 350mA

50 ..... 500mA

70 ..... 700mA

**Number of LEDs**

24L ..... 24 LEDs

**Canopy**

O ..... Original Canopy

R ..... Round Canopy

F ..... Flat Canopy

D ..... Disc Canopy

**Series Plurio LED Indirect**

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