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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. **80585-008**

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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**
Route de Paix
27705 Les Andelys
France

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

Trade Mark: **THORN**

Series/Type: **Urba**

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.bmwf.gv.at/accreditation



<p><i>Hersteller</i> <i>Manufacturer</i></p>	<p>THORN Route de Paix 27705 Les Andelys France</p>
<p><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>THORN Route de Paix 27705 Les Andelys France</p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>URBA S ... CL2 ... URBA L ... CL2 ..., see page 5</p>
<p><i>Prüfbericht</i> <i>Test Report</i></p>	<p>TR 80585-0004-02 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Superseded licence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>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 1,0 m is not expected.</p> <p>SMT-procedure.</p>

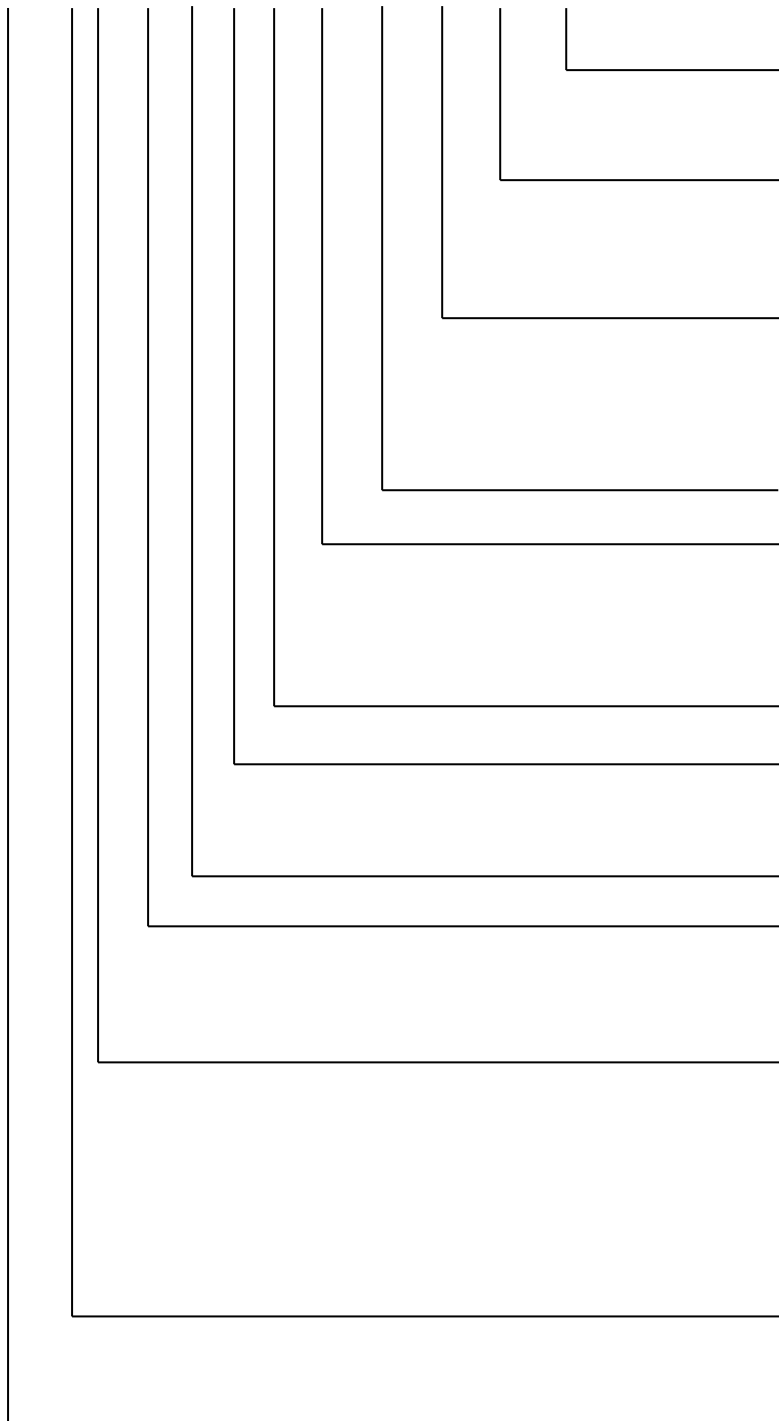
<i>Nennspannung</i> <i>Rated voltage</i>	230/240V, 50/60Hz
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	URBA S 12L ...: 1x LED module R12 URBA S 24L ...: 2x LED module R12 URBA S 36L ...: 1x LED module R36 URBA L 48L ...: 4x LED module R12 URBA L 60L ...: 2x LED module R12 + 1x LED module R36 URBA L 72L ...: 3x LED module R12 + 1x LED module R36 URBA L 84L ...: 1x LED module R12 + 2x LED module R36
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules R12 (12 LEDs) and R36 (36 LEDs)
<i>Schutzgrad</i> <i>Degree of protection</i>	IP66
<i>Netzanschluß</i> <i>Supply connection</i>	Screw terminals
<i>Befestigungsfläche</i> <i>Supporting surface</i>	Normally flammable surface
<i>Schutzklasse</i> <i>Class of protection</i>	CI.II
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	<p>LED urban street lighting lantern with 12 to 36 LEDs (Small size) and 48 to 84 LEDs (Large size). Housing made of die-cast aluminium, textured dark grey or black with tempered flat glass (fracture in small pieces). IK09 (IK08 for prismatic glass).</p> <p>Post-Top Ø60 and 76mm spigot or Side entry mounting with adjustable tilt angles of 0°, -5°, -10°.</p> <p>Integral power reduction function which dims down to 50% power, effective 3 hours before and 5 hours after a calculated midnight.</p>
<i>Zusatzinformation</i> <i>Additional information</i>	Certified for LED modules driven at max. 700mA.

<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>
LED Module	B	THORN	LEM R12	ÖVE
	B	THORN	LEM R36	ÖVE
LED control gear	B	Osram	OT 40W 4DIM	ENEC 10
	B	Osram	OT 60W 4DIM	ENEC 10
	B	Osram	OT 90W 4DIM	ENEC 10
	B	Osram	OT 165W 4DIM	ENEC 10
Terminals	A	Electro Terminal	SLK3 450V, 24A, T110	ENEC 10
	A	BJB	46.412 450V, 24A, T85	ENEC 10
Internal wiring	B	BLF	SIL/0100 300V; 0,75mm ² ; 180°C	VDE
	B	Omerin	RECSC; 300V, 180°C	VDE
External wiring	A	Interchangeable	H07RN-F 1,5mm ²	HAR
Power switch	A	OMT	0125; 250V, 10A, T120	IMQ
	A	OMT	0127; 250V, 16A, T120	IMQ
Gland	A	BLM	BM-22L PA6, IP68, 80°C	VDE

- 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.

Typecode:

URBA . . . L CL2 L...



Photometric code

730 3000K, CRI 70
740 4000K, CRI 70

Mounting Adaptor

MTP60 Post Top D60mm
MTP76 Post Top D76mm
MLE Lateral D60mm

Pre-Wiring

W8M Pre-wired 8m (Small size)
W10M Pre-wired 10m (Large size)
WxM Pre-wired xm
- Without cable

Protection class II

Bi-Power light reduction

BP Bi-Power
BPL Bi-Power Line Switch
LRT Light Reduction Twin Phase
HFX DALI

CLO Constant Light Output

Colour

GY Grey anthracit with clear glass
BK Black with dichroic glass

Optics

Current of LED module

35 350mA
50 500mA
70 700mA

Number of LEDs

12L 12 LEDs (Small size)
24L 24 LEDs (Small size)
36L 36 LEDs (Small size)
48L 48 LEDs (Large size)
60L 60 LEDs (Large size)
72L 72 LEDs (Large size)
84L 84 LEDs (Large size)

Size

S Small size
L Large size

Series Urba