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ENEC Certification Body registered under ID # 11.

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LICENCE

to use the ENEC+ Mark



Licence No. **251-001**

Date of issue: Wien, 2017 12 22

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: **Zumtobel Lighting GmbH**
Schweizer Str. 30
6850 Dornbirn
Austria

Product: **LED Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **CivITEQ Small, CivITEQ Large**

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.

Only valid in conjunction with ENEC-Licence No.: 80585-003, 80585-004, 80585-005, 80585-006.

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><i>Fertigungsstätte(n)</i> <i>Factory location(s)</i></p>	<p>THORN Route de Paix 27705 Les Andelys France</p> <p>Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom</p>
<p><i>Typenbezeichnung</i> <i>Type reference</i></p>	<p>CQ12L...CL... CQ24L...CL... CQ36L...CL... CQ48L...CL... CQ60L...CL... CQ72L...CL..., see typecode on page 6.</p>
<p><i>Prüfbericht</i> <i>Test Report</i></p> <p><i>ENEC+ Requirement Sheet</i> <i>Standard</i></p>	<p>TR-251-0072-01, TR-251-0072-02, TR-251-0072-03, TR-251-0072-04, TR-251-0072-05, TR-251-0072-06.</p> <p>EPRS 003:2015-01 (based on IEC 62722-2-1:2014)</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>This Licence is valid for all LED luminaires as listed on page 6. Rated photometric values according to EPRS 003 had been approved on selected samples, which where found to be representative for the certified family range (based on AD ENEC 331).</p> <p>MPL-procedure.</p>

<i>Nennspannung</i> <i>Rated voltage</i>	220-240V, 50-60Hz
<i>Nennleistung</i> <i>Rated power</i>	15 - 152 W, see page 5.
<i>Lampentyp(en)</i> <i>Lamp identification</i>	LED modules: STARK RLE49 (12 LEDs), STARK RLE149 (36 LEDs)
<i>Schutzklasse</i> <i>Class of protection</i>	CI.I or CI.II
<i>Ähnlichste Farbtemperatur</i> <i>Correlated colour temperature CCT</i>	3000 K 4000 K 5700 K
<i>Bemessungswert des Farbwiedergabeindex</i> <i>Rated colour rendering index CRI</i>	70
<i>Bemessungslichtstrom</i> <i>Rated luminous flux</i>	CiviTEQ Small: 1570 - 9667 lm CiviTEQ Large: 6272 - 19131 lm
<i>Bemessungswert der Lichtausbeute</i> <i>Rated efficacy</i>	CiviTEQ Small: 101 - 138 lm/W CiviTEQ Large: 109 - 143 lm/W
<i>Bemessungs-Umgebungstemperatur tq</i> <i>Rated ambient temperature for performance tq</i>	25°C
<i>Type von LED-Leuchte</i> <i>Type of LED luminaire</i>	Type A luminaire LED modules already tested and certified according to EPRS 001.
<i>Zusatzinformation</i> <i>Additional information</i>	Classified as risk group 2 (moderate 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>
LED Module	B	THORN	STARK RLE49	ÖVE
	B	THORN	STARK RLE149	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	SLK/3 450V, 24A, T110	ENEC 10
	A	Adels	1000K; 500V, 41A, T85	ENEC 10
Internal wiring	A	Draka	FQ 105C 300/500V, 105°C	SEMKO
	A	Omerin	H05SJ-K	HAR
	B	Omerin	RECSC 300/300V, 180°C	VDE
External wiring	A	Several	H07RN-F	HAR
Power switch	A	OMT	0125 250V, 10A, T120	IMQ
	A	OMT	0127 250V, 16A, T120	IMQ
Fuse holder	A	Stucchi	682/A 250V, 6,3A, T70	IMQ
Cable gland	A	Bimed	BM22-L / BLMN-22 PA-6, IP68, 100°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.

Typelist an electrical specification:

Model	Type	Built-in LED modules	No. of LEDs	Module current	Input power	
				[mA]	[W]	
CiviTEQ Small	CQ 12L35	1x STARK RLE49	12	350	15	
	CQ 12L50			500	21	
	CQ 12L70			700	28	
	CQ 24L35	2x STARK RLE49	24	350	28	
				CQ 24L50	500	38
				CQ 24L70	700	52
	CQ 36L35	1x STARK RLE149	36	350	39	
				CQ 36L50	500	55
				CQ 36L70	700	77
CiviTEQ Large	CQ 48L35	4x STARK RLE49	48	350	51	
	CQ 48L50			500	72	
	CQ 48L70			700	103	
	CQ 60L35	1x STARK RLE149 + 2x STARK RLE49	60	350	63	
	CQ 60L50			500	90	
	CQ 60L70			700	128	
	CQ 72L35	2x STARK RLE149	72	350	75	
				CQ 72L50	500	109
				CQ 72L70	700	152

Luminous flux and efficacy¹:

Model	Type	Input power	CCT	Rated luminous flux	Rated efficacy
		[W]	[K]	[lm]	[lm/W]
CiviTEQ Small	CQ 12L50-740 WS	21	4000	2354	112
	CQ 24L70-740 EWS	52	4000	6217	120
	CQ 36L50-757 WR	55	5700	7172	130
CiviTEQ Small	CQ 48L35-730 EWR	51	3000	6333	124
	CQ 60L70-730 NR	128	3000	14253	111
	CQ 72L70-740 PWC	152	4000	19067	125

CiviTEQ Small: Min. luminous flux: 1570 lm Type: CQ 12L35-740 WS
 Max. luminous flux: 9667 lm Type: CQ 36L70-757 RC
 Minimum efficacy: 101 lm/W Type: CQ 12L70-730 WS
 Maximum efficacy: 138 lm/W Type: CQ 36L35-757 RC

CiviTEQ Large: Min. luminous flux: 6272 lm Type: CQ 48L35-730 WS
 Max. luminous flux: 19131 lm Type: CQ 72L70-757 RC
 Min. efficacy: 109 lm/W Type: CQ 72L70-730 WS
 Max. efficacy: 143 lm/W Type: CQ 72L35-757 RC

¹ For more rated photometric values see respective datasheet.

Typecode:

CQ	L	-	CL	M	R	
						Colour of luminaire Rxxxx RALxxxx
						GY Light grey full body WH/ANT Anthracit body & white mask for LEDs
						Mounting Adaptor Setup
						Pre-Wiring
						6F 6A fuse
						HFX DALI dimmable
						ADC Automatic Disconnection
						Mounting Adaptor M42, M60, M76
						Protection class CL1..... Class I CL2..... Class II
						CLO Constant Light Output L90
						Bi-Power light reduction BPS, BPx-xx, BPL, LRT
						Optics RC Highway RWET..... Road Wet Condition NR Narrow Road WR Wide Road WS Wide Residential WSC..... Wide Residential Comfort EWS Extra Wide Residential EWSC Extra Wide Residential Comfort EWR..... Extra Wide Road IVS Pedestrian Crossing SC Street Comfort PWC..... Pedestrian Walkway Comfort
						Photometric code 730 3000K, CRI 70 740 4000K, CRI 70 757 5700K, CRI 70
						Current of LED module 35 350mA 50 500mA 70 700mA
						Number of LEDs 12, 24, 36, 48, 60, 72
						Series CivITEQ