

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



**OVE Certification**  
Kahlenberger Str. 2A | 1190 Wien | Austria  
T +43 1 370 58 06 | certification@ove.at

ENEC Certification Body registered under ID # 11.

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# LICENCE

to use the European Mark



Licence No.: **22159-022**

Date of issue: Wien, 2026 02 18

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

Licensee: **Zumtobel Lighting GmbH**  
Grevenmarschstr. 74-78  
32657 Lemgo  
Germany

Product: **Recessed luminaires**

Trade Mark:  **ZUMTOBEL**

Series/Type: **Series PANOS III**

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

*T. Neumayer*

Digitally signed by T. Neumayer  
Email=[t.neumayer@ove.at](mailto:t.neumayer@ove.at)

Dipl.-Ing. T. Neumayer



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<i>Hersteller</i> <i>Manufacturer</i>	<b>Zumtobel Lighting GmbH Grevenmarschstr. 74-78 32657 Lemgo Germany</b>
<i>Fertigungsstätte(n)</i> <i>Factory location(s)</i>	<b>Zumtobel Lighting GmbH Grevenmarschstr. 74-78 32657 Lemgo Germany</b>
<i>Typenbezeichnung</i> <i>Type reference</i>	<b>PANOS R R68 ..., PANOS R Q68 ..., PANOS R R100 ..., PANOS R R150 ..., PANOS R R200 ..., see typecode on page 7.</b>
<i>Prüfbericht</i> <i>Test Report</i>	<b>TR 22159-0025-01 ECS</b>
<i>Nationale Bestimmung(en)</i> <i>National Standard(s)</i>	<b>OVE EN IEC 60598-1:2022-04-01 OVE EN IEC 60598-1/A11:2023-02-01 OVE EN IEC 60598-2-2:2025-02-01</b>
<i>Europannorm(en)</i> <i>European Standard(s)</i>	<b>EN IEC 60598-1:2021 EN IEC 60598-1:2021/A11:2022 EN IEC 60598-2-2:2024</b>
<i>Ersatz für Zertifikat</i> <i>Superseded licence</i>	--
<i>Anmerkung(en)</i> <i>Remark(s)</i>	--

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<i>Bemessungsversorgungsspannung</i> <i>Rated supply voltage</i>	<b>AC 220-240 V; 50/60 Hz; DC 220-240 V</b>
<i>Anzahl und Leistung der Lampen</i> <i>Rated wattage and number of lamps</i>	<b>LED modules, see typelist on page 8.</b>
<i>Lampentyp(en)</i> <i>Lamp identification</i>	<b>LED modules, see typelist on page 8.</b>
<i>Schutzgrad</i> <i>Degree of protection</i>	<b>IP20 from above and IP43 from below in closed ceilings, or IP20 from above and IP54 from below in closed ceilings.</b>
<i>Netzanschluss</i> <i>Supply connection</i>	<b>Screwless terminals or pre-wired with connector.</b>
<i>Befestigungsfläche</i> <i>Supporting surface</i>	<b>Normally flammable surface</b>
<i>Schutzklasse</i> <i>Class of protection</i>	<b>CI.II</b>
<i>Umgebungstemperatur <math>t_a</math></i> <i>Rated ambient temperature <math>t_a</math></i>	<b>25°C</b>
<i>Beschreibung des Aufbaus</i> <i>Description of construction</i>	<b>Fixed ceiling recessed luminaires for indoor use with screwless terminals or pre-wired with connector. Housing made of aluminium and thermoplastic material.</b>
<i>Zusatzinformation</i> <i>Additional information</i>	<b>Classified as risk group 1 (low risk) according to EN 62471:2008.</b>

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<i>LED control gear</i>	B	TCI	PROFESSIONALE 20 CASAMBI NFC	ENEC 05
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	B	Inventronics (Osram)	OTi DALI 25/220-240/700 NFC TW I	ENEC 10
	B	Inventronics (Osram)	OTi DALI 15/220-240/1A0 NFC LP I	ENEC 10
	B	Tridonic	LC 10W 150-250mA flexC SC SNC4	ENEC 11
	B	Tridonic	LC 17W 140-350mA 50V NF SR EXC3 Z	ENEC 11
	B	Tridonic	LC 17W 140-350mA 50V o4a NF SR EXC3	ENEC 11
	B	Tridonic	LC 27W 300-550mA 50V NF SR EXC3 Z	ENEC 11
	B	Tridonic	LC 27W 300-550mA 50V o4a NF SR EXC3	ENEC 11
	B	Tridonic	LC 27W 100-500mA 54V D4i NF SR PRE4	ENEC 11
	B	Tridonic	LC 44W 425-1050mA flexC NF SR EXC4	ENEC 11
	B	Tridonic	LC 44W 425-1050mA o4a NF SR EXC4	ENEC 11
	B	Tridonic	LC 44W 425-1050mA flexC NF SR+ EXC4	ENEC 11
	B	Tridonic	LC 44W 425-1050mA o4a NF SR EXC4	ENEC 11
	B	Tridonic	LCA 45W 500-1400mA one4all SR PRE	ENEC 11
	B	Tridonic	LC 45W 500-1400mA flexC SR EXC	ENEC 11
B	Signify (Philips)	Xitanium 20W/m 0.15-0.5A 54V I TD 230V	ENEC 05	
<i>LED modules</i>	A*	Citizen Electronics	CLU02Q-1204E1-... CCT max.4000K tc=105°C; RG1@max.600mA	ENEC 18
	A*	Cree LED Inc.	LEM Q48 6..W-165 ... 45x45 ... CCT max.4000K tc=85°C; RG1@max.700mA	ENEC 14
	A*	Cree LED Inc.	LEM O68 9..W-220 ... 75x75 ... CCT max.4000K tc=85°C; RG1@max.700mA	ENEC 14
	A*	Cree LED Inc.	LEM O68 12,9W-300 ...75x75... CCT max.4000K tc=85°C; RG1@max.700mA	ENEC 14
	A*	Cree LED Inc.	LEM O85 ...W-275 ... 75x75 ... CCT max.4000K tc=85°C; RG1@max.700mA	ENEC 14
	A*	Cree LED Inc.	LEM O119 12.9W-300 ... 75x75 ... CCT max.4000K tc=85°C; RG1@max.900mA	ENEC 14
	<i>For TW-versions:</i>	A*	Zumtobel	LEM Q48 11.3W TW 927-65 52x45#F3V2H6A tc=95°C; RG1@max.340mA
	A*	Zumtobel	LEM O72 17W TW 927-65 82x75# tc=95°C; RG1@max.510mA	ÖVE
	A*	Zumtobel	LEM O96 22.7W TW 927-65 104x75#F3V2H6A tc=95°C; RG1@max.680mA	ÖVE

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<i>Connector</i> <i>LED-board</i>	<b>B</b>	<b>Phoenix</b> <b>Contact</b>	<b>PTSM 0,5/ 2-HTB-2,5_SMD WH R24</b> 2pole; 160V; 6A; 100°C	<b>VDE</b>
<i>Connector internal</i> <i>wires</i>	<b>B</b>	<b>Phoenix</b> <b>Contact</b>	<b>PTCM 0,5/ 2-PL-2,5 WH</b> 2pole; 160V; 6A; 100°C	<b>VDE</b>
<i>Connector</i>	<b>B</b>	<b>Wieland</b>	<b>GST 18I Series</b> 250V; 20A; IP20; 3 & 5pole; with 0.5m cable H05Z1Z1-F 0,75mm <sup>2</sup>	<b>VDE, DEKRA</b>
	<b>B</b>	<b>Wago</b>	<b>Winsta Midi type 770 (male/female)</b> 250/400V; 25A; 125°C; IP20; 3 or 5pole; with 0.5m cable H05Z1Z1-F 1,0mm <sup>2</sup>	<b>VDE</b>
	<b>B</b>	<b>Wago</b>	<b>LINECT type 770</b> 250V; 25A; 55°C; IP20; 3 or 5pole	<b>VDE</b>
<i>Connector</i>	<b>B</b>	<b>Tyco</b> <b>Electronics</b>	<b>Mini HVL plug/outlet</b> 250V; 2,5A; 2pole; 85°C	<b>ENEC 10</b>
<i>LED-holder (COB,</i> <i>R68..WW-versions)</i>	<b>B</b>	<b>Bender &amp;</b> <b>Wirth</b>	<b>Halter 434, Typ 53</b> DC 80V; 5A; T180	<b>VDE</b>
<i>LED-holder (COB)</i>	<b>C</b>	<b>Molex</b>	<b>180414-112</b> AC 50V; DC 120V; 3A; 110°C	<b>Checked within appliance</b>
<i>Wiring ...</i> <i>for mains</i>	<b>A</b>	<b>Norbert</b> <b>Kordes</b>	<b>H05Z1Z1-F</b>	<b>HAR</b>
<i>for Tridonic drivers</i>	<b>C</b>	<b>Excellent</b> <b>cable &amp; wire</b>	<b>TPE 0,5mm<sup>2</sup>; 2C twin cable (LSZH)</b> 300V; 2x0,5mm <sup>2</sup> ; 105°C	<b>Checked within appliance</b>
<i>for R68-versions</i>	<b>A</b>	<b>Salcavi</b> <b>Industrie</b>	<b>H03Z1Z1H2-F 2x0,75mm<sup>2</sup></b>	<b>HAR</b>
	<b>C</b>	<b>Salcavi</b> <b>Industrie</b>	<b>03ZZH2-F 2x0,75mm<sup>2</sup></b> 90°C	<b>Checked within appliance</b>
<i>for 9TW and MWS-</i> <i>versions</i>	<b>C</b>	<b>Lapp Kabel</b>	<b>Unitronic Robust</b> PP; 4x 0,34mm <sup>2</sup> , halogenfree; 90°C	<b>Checked within appliance</b>
<i>HF-sensor (for</i> <i>MWS versions)</i>	<b>B, C</b>	<b>Tridonic</b>	<b>basicDIM ILD G2 SBI 5DPI ZT</b> tc=75°C	<b>TR 22175-0026-01</b> <b>Checked within appliance</b>
<i>Thermal interface</i> <i>(size 68mm)</i>	<b>C</b>	<b>Henkel</b> <b>(Bergquist)</b>	<b>Hi-Flow 300P</b>	<b>Checked within appliance</b>
<i>Reflector (mixing</i> <i>chamber)</i>	<b>C</b>	<b>Covestro</b>	<b>PC Makrolon RW5181</b>	<b>Checked within appliance</b>
<i>Main reflectors</i> <i>(R/Q68 WW, R100)</i>	<b>C</b>	<b>DOW</b> <b>Plasitcs</b>	<b>PC, Calibre 301 WH</b>	<b>Checked within appliance</b>
<i>Main reflectors</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Lexan R 123R-80287</b>	<b>Checked within appliance</b>
<i>Diffusor disk</i>	<b>C</b>	<b>Covestro</b>	<b>PC Makrolon DQ5122, opal</b>	<b>Checked within appliance</b>
<i>Kaschierungsring</i> <i>(H-versions)</i>	<b>C</b>	<b>Covestro</b>	<b>PC Makrolon DQ6267</b>	<b>Checked within appliance</b>
<i>Heatsink ring</i>	<b>C</b>	<b>ALBIS</b> <b>Plastic</b>	<b>PC, ALCOM PWL 10/1.1 WT;</b> 129°C, BPT 137°C	<b>Checked within appliance</b>

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<i>Housing WW</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Lexan R 123R-80287</b>	<b>Checked within appliance</b>
<i>Mounting ring (trim)</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Resin 915 WH</b>	<b>Checked within appliance</b>
<i>Fixing bars</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Resin 915 WH</b>	<b>Checked within appliance</b>
<i>RET-ring</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Lexan R 123R-80287</b>	<b>Checked within appliance</b>
<i>Spannelement (R100)</i>	<b>C</b>	<b>Covestro</b>	<b>PC Makrolon 2405, RAL 7001</b>	<b>Checked within appliance</b>
<i>Mounting clamps</i>	<b>C</b>	<b>Sabic</b>	<b>PC, Resin 915 WH</b>	<b>Checked within appliance</b>
<i>Gleitschutz</i>	<b>C</b>	<b>mcpp</b>	<b>TO 113 50A, TPE, Tefabloc</b>	<b>Checked within appliance</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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Typelist:

Type	Size [mm]	Max. lum. flux nominal	LED modules (ZLG designations)	Max. current setting [mA]	Max. rated power [W]
PANOS R Q68 ...	68	1k	LEC ... CI CLU02Q-1204E1...	250	10,4
PANOS R R68 ...	68	1k	LEC ... CI CLU02Q-1204E1...	250	10,4
PANOS R R100 ...	100	1k	LEM Q48 11.3W TW 927-65 52x45 ...	248	11,2
PANOS R R100 ...	100	2k5	LEM Q48 6..W-165 ... 45x45 ...	420	20,6
PANOS R R150 ...	150	1k	LEM Q48 11.3W TW 927-65 52x45 ...	248	11,2
PANOS R R150 ...	150	2k	LEM O72 17W TW 927-65 82x75 ...	417	17,1
PANOS R R150 ...	150	2k	LEM Q48 6..W-165 ... 45x45 ...	375	18,4
PANOS R R150 ...	150	3k	LEM O85 ...W-275 ... 75x75 ...	425	21,5
PANOS R R150 ...	150	3k	LEM O68 9..W-220 ... 75x75 ...	425	22,6
PANOS R R200 ...	200	2k	LEM O68 12.9W-300 ... 75x75 ...	275	14,1
PANOS R R200 ...	200	2k	LEM O72 17W TW 927-65 82x75 ...	417	17,1
PANOS R R200 ...	200	3k	LEM O68 9..W-220 ... 75x75 ...	350	18,8
PANOS R R200 ...	200	3k	LEM O85 ...W-275 ... 75x75 ...	425	21,5
PANOS R R200 ...	200	3k	LEM O96 22.7W TW 927-65 104x75	541	21,5
PANOS R R200 ...	200	5k	LEM O119 12.9W-300 ... 75x75 ...	750	38,6

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