
<b>TEST REPORT</b> <b>IEC 61199</b> <b>Single-capped fluorescent lamps - Safety Specifications</b>		
<b>Report Number.....: 704020866603-02</b> <b>Date of issue .....: 2017-07-31</b> <b>Total number of pages ..... 17</b>		
<b>Name of Testing Laboratory preparing the Report .....: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch</b>		
<b>Applicant's name .....: Ningbo OUMEI Light Source Tech Co.,Ltd.</b> <b>Address .....: No.19 Binhai Road, Xiexi Industrial section, Daxie Development Zone, 315812 Ningbo, Zhejiang, P.R.China</b>		
<b>Test specification:</b> <b>Standard .....: IEC 61199:2011, AMD1:2012, AMD2:2014</b> <b>Test procedure.....: EU-directive</b> <b>Non-standard test method.....: N/A</b>		
<b>Test Report Form No. ....: IEC61199A</b> <b>Test Report Form(s) Originator.....: TÜV Rheinland InterCert Kft., MEEI Division</b> <b>Master TRF .....: Dated 2017-06-22</b> <b>Copyright © 2017 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.</b> <p>This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.</p> <p>If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.</p> <p><b>This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.</b></p>		
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<b>Test item description</b> .....		Fluorescent lamp(Single-Capped PL Fluorescent Lamps)
<b>Trade Mark</b> .....		<b>OUMEI LIGHT</b>
<b>Manufacturer</b> .....		Same as applicant
<b>Model/Type reference</b> .....		PL-S 9W, PL-S 11W, PL-L 18W, PL-L 24W, PL-L 36W, PL-L 40W, PL-L 55W
<b>Ratings</b> .....		Details see "General product information"
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.151 Heng Tong Road. Shanghai 200070 P.R. China
<b>Testing location/ address</b> .....		No. 1999, Duhui Road, Shanghai, 201108, P. R. China
<b>Tested by (name, function, signature)</b> .....		Xiaohui YANG
<b>Approved by (name, function, signature)</b> ..		Na ZHANG
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	N/A
<b>Testing location/ address</b> .....		
<b>Tested by (name, function, signature)</b> .....		
<b>Approved by (name, function, signature)</b> ..		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	N/A
<b>Testing location/ address</b> .....		
<b>Tested by (name + signature)</b> .....		
<b>Witnessed by (name, function, signature).</b> :		
<b>Approved by (name, function, signature)</b> ..		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	N/A
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	N/A
<b>Testing location/ address</b> .....		
<b>Tested by (name, function, signature)</b> .....		
<b>Witnessed by (name, function, signature).</b> :		
<b>Approved by (name, function, signature)</b> ..		
<b>Supervised by (name, function, signature)</b> .....		

**List of Attachments (including a total number of pages in each attachment):**

N/A

**Summary of testing:****Tests performed (name of test and test clause):**

Complete test is performed for PL-L 55W  
Construction check is performed for all models.

All of the product comply with the safety requirement.

**Testing location:**

TÜV SÜD Certification and Testing (China) Co.,  
Ltd. Shanghai Branch  
No. 1999, Duhui Road, Shanghai, 201108, P. R.  
China

**Summary of compliance with National Differences (List of countries addressed):**

EU Group Differences

There is no deviation between EN 61199:2011/A1:2015 and IEC 61199:2011/A1:2014.

☒ **The product fulfils the requirements of EN61199:2011/A2:2015.**

**Copy of marking plates:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

<b>OUMEI LIGHT</b> <b>PL-S 9W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang	<b>OUMEI LIGHT</b> <b>PL-S 11W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang
<b>OUMEI LIGHT</b> <b>PL-L 18W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang	<b>OUMEI LIGHT</b> <b>PL-L 24W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang
<b>OUMEI LIGHT</b> <b>PL-L 36W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang	<b>OUMEI LIGHT</b> <b>PL-L 40W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang
<b>OUMEI LIGHT</b> <b>PL-L 55W CE</b> Xiexi Industrial Section Daxie Development Zone, Ningbo, Zhejiang	

Authorized Representative in EU:XXXX+XXXX

Series No. XXXX

<b>Test item particulars.....</b>	Fluorescent lamp
<b>Starting method .....</b>	N/A
<b>Lamp cap.....</b>	2G7, 2G11
<b>Nominal tube diameter .....</b>	N/A
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement .....	F (Fail)
<b>Testing .....</b>	:
<b>Date of receipt of test item .....</b>	2017-06-23
<b>Date(s) of performance of tests .....</b>	2017-06-23 to 2017-07-31
<b>General remarks:</b>	
<p>"(See Enclosure #)" refers to additional information appended to the report.          "(See appended table)" refers to a table appended to the report.</p> <p><b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b></p> <p><b>Remark 1:</b>          This test report replaces the previous version 704020866603-01 issued on 2012-10-23 due to below:          1) Update the standard</p> <p><b>Remark 2:</b>          The following contents are included and as attachments of this test report:</p> <ul style="list-style-type: none"> <li>● Test report IEC 61199:2011/A2:2014 (Page 1-14)</li> <li>● Appendix 1: Photograph (Page 15-17)</li> </ul> <p><b>Remark 3:</b>          Name of Factory: Ningbo OUMEI Light Source Tech Co.,Ltd.          Address: No.19 Binhai Road, Xiexi Industrial section, Daxie Development Zone, 315812 Ningbo, Zhejiang, P.R.China</p>	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60060-2:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the General product information section.</b>	

**Name and address of factory (ies) .....**: Ningbo OUMEI Light Source Tech Co.,Ltd.  
 No.19 Binhai Road, Xiexi Industrial section, Daxie  
 Development Zone, 315812 Ningbo, Zhejiang,  
 P.R.China

**General product information and other remarks:**

The products cover in this report are fluorescent lamps which have same construction only different rated power and lamp cap.

Lamp type	Lamp shape	Lamp cap	Power
PL-S 9W	PL Fluorescent lamp	2G7	9W
PL-S 11W	PL Fluorescent lamp	2G7	11W
PL-L 18W	PL Fluorescent lamp	2G11	18W
PL-L 24W	PL Fluorescent lamp	2G11	24W
PL-L 36W	PL Fluorescent lamp	2G11	36W
PL-L 40W	PL Fluorescent lamp	2G11	40W
PL-L 55W	PL Fluorescent lamp	2G11	55W

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict
<b>4</b>	<b>SAFETY REQUIREMENTS</b>		<b>P</b>
<b>4.1</b>	<b>General</b>		—
	Lamps present no danger to the user or surroundings in normal use		P
<b>4.2</b>	<b>Marking</b>		<b>P</b>
	Quantity tested.....:	7pcs.	P
4.2.1	Mandatory markings		P
	a) mark of origin	<b>OUMEI LIGHT</b>	P
	b) the rated wattage	9W, 11W, 18W, 24W, 36W, 40W, 55W	P
	Marked on the lamps		P
4.2.2	Markings are legible and durable		P
	The marking is legible by visual inspection		P
	The marking is legible after rubbed by hand with a smooth cloth dampened with water for a period of 15 s		P
<b>4.3</b>	<b>Mechanical requirements for caps</b>		<b>P</b>
4.3.1	Construction and assembly		P
	Caps are remain attached during and after operation		P
	For caps GR8, G10q, GR10q, GU10q, GZ10q and 2GX13		N/A
	Quantity tested.....:		N/A
	a) Pull test on unused lamps (N) .....		N/A
	No damage that impairs safety		N/A
	Adequate mechanical strength, no openings		N/A
	Test finger cannot be inserted to touch live parts		N/A
	For G10q, GZ10q and 2GX13 caps: Additional periodic test:		N/A
	No short-circuit during max. rotation of the cap		N/A
	Test finger cannot be inserted to touch live parts		N/A
	b) Heating treatment for 2000 h $\pm$ 50 h at a temperature of (°C) .....		N/A
	Pull test on unused lamps (N) .....		N/A
	No damage that impairs safety		N/A

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict
	For caps 2G7, 2GX7, 2G8, GX10q, GY10q, 2G10, 2G11, 2GX11, GR14q, G23, GX23, G24, GX24, GZ24 and GX32:		P
	Quantity tested.....	7pcs.	P
	a) Pull test on unused lamps (N) .....	40	P
	Bending moment of (Nm) .....	3	P
	No damage that impairs safety.		P
	b) Heating treatment for 2000 h $\pm$ 50 h at a temperature of (°C) .....	160	P
	Pull test on unused lamps (N) .....	40	P
	Bending moment of (Nm) .....	3	P
	No damage that impairs safety		P
4.3.2	Dimensional requirements for caps		P
4.3.2.1	Lamps use standardized caps in accordance with the requirement of IEC 60061-1	(see appended table)	P
4.3.2.2	Cap type 2G7 checked by Gauge 7006-102	(see appended table)	P
	Cap type 2GX7 checked by Gauge 7006-102		N/A
	Cap type 2G8 checked by Gauge 7006-141, 141H, 141J, 141K		N/A
	Cap type GR8 checked by Gauge 7006-68A, 68B, 68E		N/A
	Cap type G10q checked by Gauge 7006-79		N/A
	Cap type GR10q checked by Gauge 7006-77A, 68B, 68E		N/A
	Cap type GU10q checked by Gauge 7006-123, 123A		N/A
	Cap type GX10q checked by Gauge 7006-79, 84, 84A and 84B		N/A
	Cap type GY10q checked by Gauge 7006-79, 85 and 85A		N/A
	Cap type GZ10q checked by Gauge 7006-79		N/A
	Cap type 2G10 checked by Gauge 7006-118		N/A
	Cap type 2G11 checked by Gauge 7006-82		P
	Cap type 2GX11-1 checked by Gauge 7006-82F, 82G and 82H		N/A
	Cap type 2GX13 checked by Gauge 7006-125A, 125B		N/A



IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict
	Cap type G23 checked by Gauge 7006-69		N/A
	Cap type GX23 checked by Gauge 7006-86		N/A
	Cap type G24,GX24 checked by Gauge 7006-78		N/A
	Cap type GZ24q	Under consideration	N/A
	Cap type GX32 checked by Gauge 7006-87		N/A
4.3.3.	Pin connections and keying configurations		P
4.3.3.1	Pin connections		P
	Connection of lamp cathodes to the pins of cap		P
4.3.3.2	Key Configuration		N/A
	Cap conform to cap / key version		N/A
4.3.4	System requirements		N/A
	The lamp does not exceed the specified system requirement limits		N/A
<b>4.4</b>	<b>Insulation resistance</b>		<b>P</b>
4.4.1	Insulating resistance between the metal shell of the cap and the pins or contacts not less than 2 MΩ .....:	(see appended table)	P
	Insulating resistance between the insulating surface wrapped into metal foil and the pins or contacts not less than 2 MΩ .....:	(see appended table)	N/A
4.4.2	Insulation resistance measurement carried out with 500 V d.c.		P
<b>4.5</b>	<b>Electric strength</b>		<b>P</b>
	Quantity tested.....:	7pcs.	P
4.5.1	The insulation between the shell of the cap and the pins or contacts withstand the test voltage		P
	The insulation between the insulating surface wrapped into metal foil and the pins or contacts withstand the test voltage		N/A
	No flash-over or breakdown occur during the test		P
4.5.2	A 1500 V a.c. voltage of substantially sine-wave form, with a frequency of 50 Hz or 60 Hz and applied for 1 min		P
	Not apply to lamps having caps with internal resistors		N/A
<b>4.6</b>	<b>Parts which can become accidentally live</b>		<b>P</b>
	Quantity tested.....:	7pcs.	P

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict
4.6.1	Metal parts intended to be insulated from live parts not be or become live		N/A
4.6.2	No live part project from any part of the cap except the cap pins		P
4.6.3	Checked by a suitable system		P
<b>4.7</b>	<b>Resistance to heat and fire</b>		<b>P</b>
4.7.1	Insulating material of cap is resistant to heat		P
	Quantity tested.....	7pcs.	P
4.7.2	Checked by the following tests		P
4.7.2.1	Samples tested in a heating cabinet for a period of 168 h, temperature (°C) .....	160 °C for 2G7,2G11	P
	At the end of test, the samples not have undergone any change impairing their further safety		P
	No reduction in the protection against electric shock as required in 2.4 and 2.5		P
	No loosening of cap pins, cracks, swelling and shrinking		P
	Dimension comply with the requirement of 2.3.2	(see appended table)	P
4.7.2.2	Ball pressure test		P
	Part tested, temperature (°C) .....	Plastic for cap, 125°C	P
	Part tested, temperature (°C) .....		N/A
4.7.3	External parts of insulating material are resistance to abnormal and to fire		P
	Quantity tested.....	7pcs.	P
4.7.4	Glow-wire test (650 °C) .....	650°C	P
<b>4.8</b>	<b>Creepage distance for caps</b>		<b>P</b>
4.8.1	Between contact pins or contacts and the metal shell of the cap (requirements in IEC 60061-4 and 60061-1)	(see appended table)	P
4.8.2	Measurement in the most onerous position		P
<b>4.9</b>	<b>Lamp cap temperature rise</b>		<b>P</b>
4.9.1	Lamp cap temperature rise does not exceed the relevant value (Limit as per table B.1 and B.2)	(see appended table)	P
4.9.2	Test procedure according to Annex B		P
4.9.3	Compliance according to Clause D.4		P

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict
4.9.4	One lamp group is representative of the family		P
<b>4.10</b>	<b>Radio interference suppression capacitors</b>		<b>N/A</b>
4.10.1	General		N/A
	Lamps which contain integral means of starting and/or contain capacitors to suppress radio interference shall have capacitors which comply with the following requirements.		N/A
	Quantity tested.....	pcs.	N/A
4.10.2	Moisture Resistance		N/A
	Humidity test for 48 hrs.		N/A
	Electric strength test at 2KV for 1Min.		N/A
4.10.3	Resistance to flame and ignition		N/A
	Not induce flame or cause ignition		N/A
<b>4.11</b>	<b>UV radiation</b>		<b>P</b>
	The specific effective radiant UV power of self-shielded tungsten halogen lamp does not exceed 2 mW/klm or	(see appended table)	P
	for reflector lamp, 2 mW /(m <sup>2</sup> ·klx)		N/A
<b>4.12</b>	<b>Information for luminaire design</b>		<b>N/A</b>
	Refer to Annex C		N/A
<b>4.13</b>	<b>Information for ballast design</b>		<b>N/A</b>
	Refer to Annex H		N/A
<b>4.14</b>	<b>Information for lampholder design</b>		<b>N/A</b>
	Refer to Annex I		N/A

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict

4.3.2.1	TABLE: Dimensional requirements for caps						N/A		
Type of tested lamps .....									
Cap type .....									
Used sheet of IEC 60061-1 ..									
Tested quantity .....		pcs.							
Dimensions		Measured values (mm)						Requirement (mm)	
								Min.	Max.
Supplementary information:									

4.3.2.2	TABLE: Gauges (dimensions before the heating test)					P
Type of tested lamps .....			7pcs.			
Cap type .....						
Gauges used according to the sheets of IEC 60061-3.....						
Tested quantity.....						
Gauge			Verdict			
7006-102			P			
7006-82			P			
Supplementary information:						

4.3.2.2	TABLE: Gauges (dimensions after the heating test)		P
Type of tested lamps ..... :		7pcs.	
Cap type ..... :			
Gauges used according to the sheets of IEC 60061-3..... :			
Tested quantity..... :			
Gauge		Verdict	
7006-102		P	
7006-82		P	
Supplementary information:			

IEC 61199			
Clause	Requirement + Test	Result - Remark	Verdict

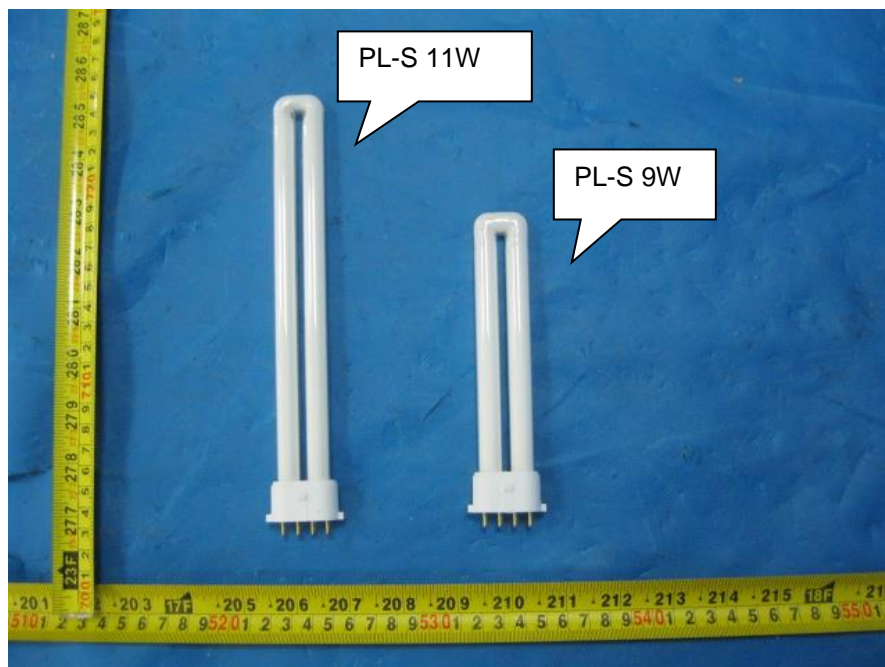
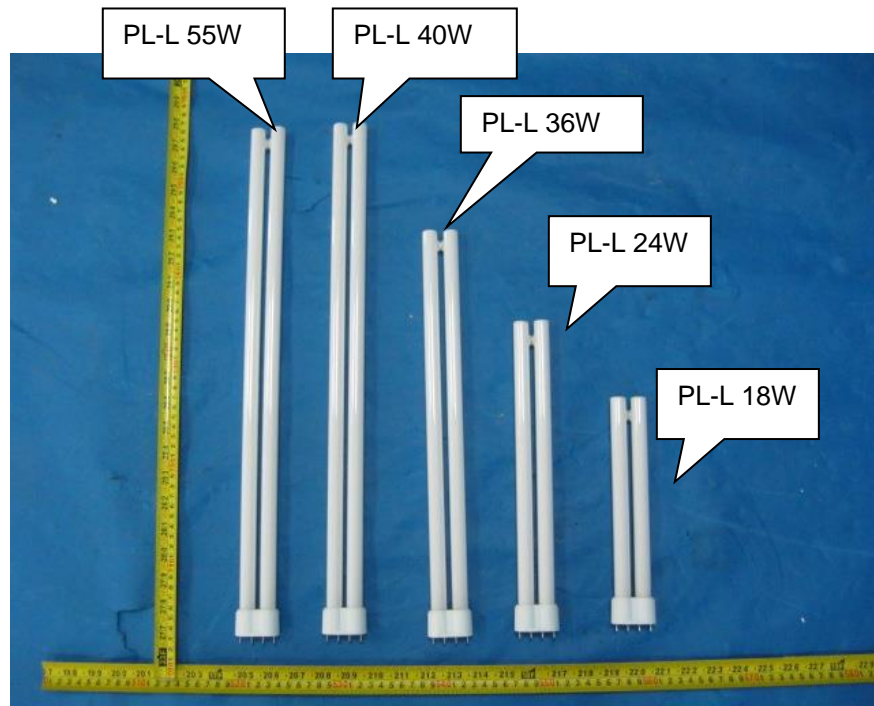
4.4	TABLE: Insulation resistance						
Tested quantity.....:		5pcs.					
Lamp type		Measured insulation resistance values (MΩ)					Required minimum insulation resistance value (MΩ)
PL-L 55W		>100	>100	>100	>100	>100	2
Supplementary information:							

4.8	TABLE: Creepage distance for caps						N/A
Cap type .....	pcs.						
Used sheet of IEC 60061-1 ...							
Tested quantity.....							
Lamp type	Measured values (mm)					Required value (mm)	
Supplementary information:							

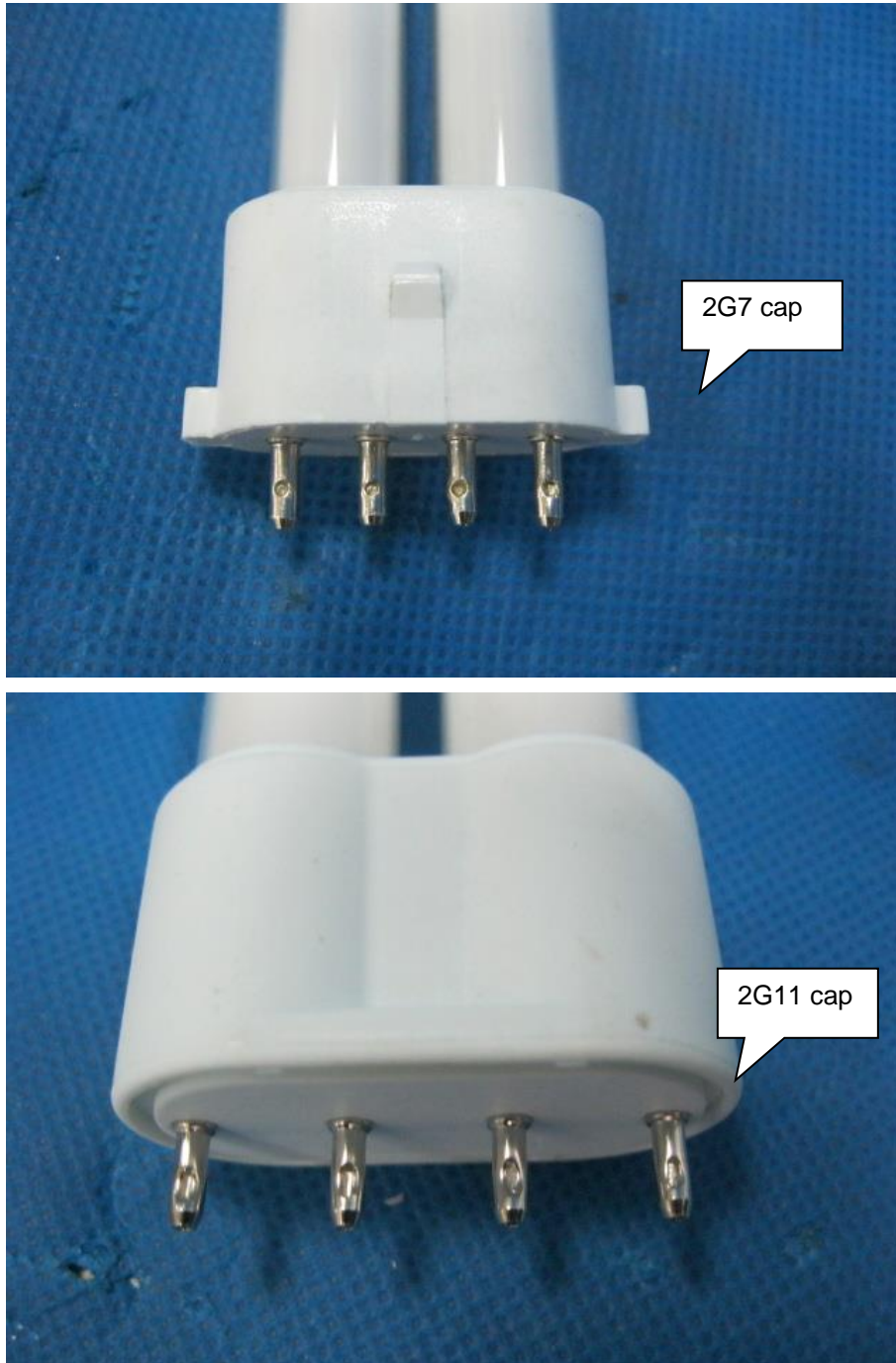
4.9	TABLE: Lamp cap temperature rise						P
Cap type .....		5pcs.					
Tested quantity.....							
Lamp type		Measured values (K)					Max. temperature limit (K)
PL-S 11W		32	31	28	32	33	135
PL-L 55W		47	45	48	50	42	135
Supplementary information:							

IEC 61199						
Clause	Requirement + Test				Result - Remark	
4.11	TABLE: UV radiation (specific effective radiant UV power)					P
Tested quantity..... :		5pcs.				
Lamp type		Measured values (mW/klm)				Requirement (mW/klm)
PL-L 55W		0,045	0,045	0,045	0,045	2
Supplementary information:						

## Appendix 1: Photograph



Appendix 1: Photograph





Appendix 1: Photograph

