



SHENZHE YARUI TESTING CO., LTD.

No.1107-1109, Weidonglong Technology Building, Meilong Avenue, Qinghu Longhua District, Shenzhen 518109, Guangdong, China
Tel : +86-755-27912080 Fax: +86-755-27916936

LVD TEST REPORT

Product name.....: Led Filament Bulb

Trademark.....: N/A

Model No.....: ST38, ST64, ST58, ST45, ST48, A15, A19, A21, A23, PS52, G45, G80, G95, G125, G150, G200, T20, T25, T38, T45, T9-185, T9-300, T310, C35, FC35, C90, BT55, BT75, BR85, BR95, D64, D95, R135, R160, ER165, T9-135, BT118, BT180, BTT80, D110, D120, S140, L110, A125, T95, C115, BT120, BTT76, ER180, R160, R280, PS35, PS42, PS52, D185, M200, G250, ET160, ET125, R25

Test Standards.....: **EN 62560:2012+A1:2015**

Applicant.....: NANTONG FLITE LIGHTING TECHNOLOGY CO., LTD

Address of applicant.....: GROUP 9, BAIDIAN VILLAGE, BAIDIAN TOWN, HAIAN COUNTY, JIANGSU 226600, CHINA

Date of Test Date.....: Dec. 12, 2019-Dec.23,2019

Date of issue.....: Dec.23, 2019

Report No.....: YRT201912253S

Test result Pass *

* In the configuration tested, the EUT complied with the standards EN 62560:2012+A1:2015



Remark: The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The sample detailed above has been tested to the requirements of council directives 2014/35/EU. The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full, without prior written permission of the company.



TEST REPORT IEC 62560 Self-Ballasted LED-Lamp for general lighting services by voltage > 50V Safety specifications	
Report reference No.:	YRT201912253S
Testing laboratory	SHENZHEN YARUI TESTING CO., LTD.
Location.....:	No.1107-1109, Weidonglong Technology Building, Meilong Avenue, Qinghu Longhua District, Shenzhen 518109, Guangdong, China
Applicant.....:	NANTONG FLITE LIGHTING TECHNOLOGY CO., LTD
Address:.....:	GROUP 9, BAIDIAN VILLAGE, BAIDIAN TOWN, HAIAN COUNTY, JIANGSU 226600, CHINA
Manufacturer.....:	NANTONG FLITE LIGHTING TECHNOLOGY CO., LTD
Address:.....:	GROUP 9, BAIDIAN VILLAGE, BAIDIAN TOWN, HAIAN COUNTY, JIANGSU 226600, CHINA
Type of test equipment	Led Filament Bulb
Trade mark.....:	N/A
Model/Type designation.....:	ST38, ST64, ST58, ST45, ST48, A15, A19, A21, A23, PS52, G45, G80, G95, G125, G150, G200, T20, T25, T38, T45, T9-185, T9-300, T310, C35, FC35, C90, BT55, BT75, BR85, BR95, D64, D95, R135, R160, ER165, T9-135, BT118, BT180, BTT80, D110, D120, S140, L110, A125, T95, C115, BT120, BTT76, ER180, R160, R280, PS35, PS42, PS52, D185, M200, G250, ET160, ET125, R25
Rating.....:	Input: 220-240VAC 50/60Hz max.10W
Test specification:	
Standard :	IEC 62560:2011 (First Edition) + A1:2015 EN 62560:2012+A1:2015
Test procedure :	IEC test report
Non-standard test method :	N/A
Test Report Form No.:	IEC62560B
Test Report Form(s) Originator:	DEKRA Certification B.V.
Master TRF :	Dated 2015-11
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General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

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General remarks:	
<p>“(see remark #)” refers to a remark appended to the report.</p> <p>“(see appended table)” refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>Until otherwise specified, all tests are done under normal ambient condition $25^{\circ}\text{C}\pm 10^{\circ}\text{C}$, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.</p>	<p>Attached with:</p> <p>Attachment - A. Photo Documentation</p>
<p>The test samples were pre-production samples without serial numbers. This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p><input checked="" type="checkbox"/> The product fulfils the requirements of IEC 62560:2011 (First Edition) + A1:2015</p> <p>The maximum ambient is 40°C.</p> <p>All the models are similar except appearance and model name. The model S140 is selected for testing</p> <p>The test result presented in this report relate only to the object tested. The samples tested comply with the requirements of this standard.</p>	

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Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

Name and address of the testing laboratory :

SHENZHEN YARUI TESTING CO., LTD.
No.1107-1109, Weidonglong Technology Building, Meilong Avenue, Qinghu Longhua District ,
Shenzhen 518109, Guangdong, China

Tested by : Tommy Zhang Dec. 12-Dec.23, 2019
Signature Date

Tommy Zhang/ Engineer
Name/title

Witnessed by: Sally Liu Dec.23 , 2019
Signature Date

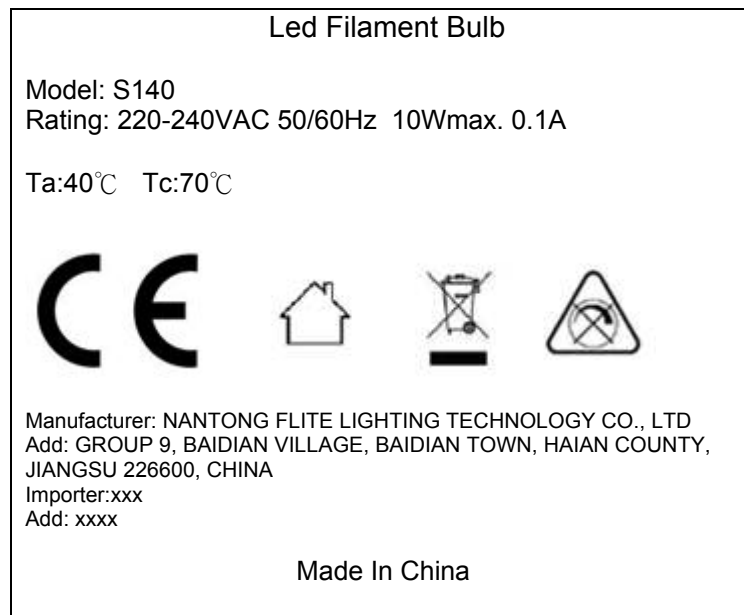
Sally Liu/ Supervisor
Name/title

Approved by : Lily Yu Dec.23 , 2019
Signature Date

Lily Yu/ Manager
Name/title

SHENZHEN YARUI TESTING CO., LTD.

Copy of marking plate



Remark:

- The above copy of marking plates as an example.

-The above markings are the minimum requirements required by the safety standard. For the final productions samples, the additional markings which do not give rise to misunderstanding may be added.


-The dimension for height of CE mark is at least 5mm height and the height of WEEE directive mark is at least 7mm height.

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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		P
4.1	The lamp shall be so designed and constructed that in normal use cause no danger to the user.		P
4.2	Self-ballasted LED-Lamp are non-repairable.		P

5	MARKING		P
5.1	Mandatory marking		P
	- mark of origin	See label	P
	- rated supply voltage (V).....:	220-240V	P
	- rated wattage (W).....:	Max.10W	P
	- rated frequency (Hz).....:	50/60 Hz	P
5.2	Addition marking		P
	- burning position		N/A
	- rated current (A)	0.1A	P
	- weight significantly higher		N/A
	- special conditions or restrictions		N/A
	Not suitable for dimming; symbol used 		P
	- not suitable for water contact		P
5.3	Marking durable and legible		P
	rubbing 15 s water, 15 s petroleum; marking legible		P

6	INTERCHANGEABILITY		P
6.1	Cap interchangeability in accordance with IEC 60061-1		P
	Gauge in accordance with IEC 60061-3		P
6.2	Bending moment, axial pull and mass		P
	Bending moment imparted by the lamp at the lampholder		P
	Lamp construction withstands axial pull (Nm)		P
	Mass not exceeding value tabel 2 (kg)		P

7	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		
	Internal, basic insulated or live metal parts not accessible		P

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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

	Tested with a test finger with a force of 10 N		P
	Compliance checked with appropriate gauges		P

8	INSULATION RESISTANCE AND ELECTRIC STRENGTH		
8.2	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MΩ):		P
	≥ 4 MΩ for double or reinforced insulation		P
8.3	Immediately after clause 8.2 electric strength test for 1 min		P
	Double or reinforced insulation, 4U + 2000 V		P
	No flashover or breakdown		P

9	MECHANICAL STRENGTH		
	Torsion resistance of unused lamps		P
9.1	Torque test		P
	B 15 d Cap 1,15 Nm		N/A
	B 22 d Cap 3,0 Nm		N/A
	E 11 Cap 0,8 Nm		N/A
	E 12 Cap 0,8 Nm		N/A
	E 14 Cap 1,15 Nm		N/A
	E 17 Cap 1,5 Nm		N/A
	E 26 or E27 Cap..... 3,0 Nm		P
	GX 53 Cap..... 3,0 Nm	under consideration	N/A
9.2	Torsion resistance of lamps after a defined time of usage		P
	Torsion resistance of used lamp	under consideration.	P
9.3	Repetition of clause 8		P
	Clause 8 shall comply after the mechanical strength test.		P

10	CAP TEMPERATURE RISE		
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.		P

11	RESISTANCE TO HEAT		P
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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

	Parts of insulating material retaining live parts in position, ball-pressure test:		P
	- part; test temperature (°C)	Lamp base:78.9°C	P
	- part; test temperature (°C)		P

12	RESISTANCE TO FLAME AND IGNITION		P
	External parts of insulating material preventing electric shock glow-wire test 650 °C	Lamp base	P
	- flame extinguished within 30 s		P
	- no flaming drops igniting tissue paper		P

13	FAULT CONDITIONS		P
13.2	Extreme electrical conditions (dimnable lamps)		N/A
	Lamp withstands overpower condition >15 min.		N/A
	Lamp fails safe after 15 min overpower condition		N/A
	Lamp with automatic protective device or power limiter, test performed 15 min. at limit.		N/A
13.3	Extreme electrical conditions (non-dimnable lamps)		P
	Tested according 13.2 (as far as possible)		N/A
13.4	Short-circuit across capacitors	(see appended table)	P
13.5	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	P
13.6	When operated under fault conditions the lamp		P
	- does not emit flames or molten material		P
	- does not produce flammable gases or smoke		P
	- live parts not accessible		P
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1		P

14 (16)	CREEPAGE DISTANCES AND CLEARANCES		P
	Creepage distances and clearances according to IEC 61347-1	(see appended table)	P
	Conductive accessible parts according to IEC 60598-1	(see appended table)	P

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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

15	ABNORMAL OPERATION		P
	Non-dimmable self-ballasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8		P
	Operate the lamp for 8 h at most onerous dimming level		P
	When operated under abnormal operation the lamp		P
	- does not catch fire		P
	- does not produce flammable gases		P
	- live parts not accessible		P

16	TEST CONDITIONS FOR DIMMABLE LAMPS		N/A
	Test are carried out at maximum power setting for Clause 10 and Clause 17		N/A

17	PHOTOBIOLOGICAL SAFETY		P
17.1	UV radiation		P
	The LED lamp doesn't exceed 2mW/klm		P
17.2	Blue light hazard		P
	Assessed according to IEC TR 62778		P
	LED lamps shall be RG0 or RG1		P

18	INGRESS PROTECTION		N/A
18.1	Lamps shall be suitable for water contact unless marked with Figure 6		N/A
18.2	The lamp is subjected to an IPX4 test according to IEC 60598-1		N/A
	The lamp complies with the compliance provisions of 9.2 of IEC 60598-1		N/A
	Lamps constructed so that it is sealed to exclude water need not to be tested		N/A

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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

11	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm)				—
Part	Test temperature (°C)	Impression diameter (mm)		
Lamp base holder	125	0.8		
Supplementary information:				

12	TABLE: Resistance to heat and fire – Glow wire tests				P
Object/ Part No./ Material	Manufacturer/ trademark	Glow wire test (GWT); (°C)		Verdict	
		650			Pass
		te	ti		
Lamp base holder	Nantong Flite Lighting Technology Co., Ltd.	0	0	Pass	

13	TABLE: tests of fault conditions			P
Part	Simulated fault	Result		Hazard
output	S/C	The light off, no hazard		NO

14(16)	TABLE: Clearance And Creep age Distance Measurements						P
clearance cl and creep age distance decry at/of:	Up (V)	U rams. (V)	Required cl (mm)	cl (mm)	required decry (mm)	decry (mm)	
Between L and N	340	250	1.7	3.5	2.5	3.5	
Live parts to accessible surface:	340	250	1.7	3.5	2.5	3.5	
Supplementary information:							

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IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE		List of critical components and materials			
Component	manufacturers / trademark	Type / model	Value / rating	standard	Approval/ Reference
Lamp base	Nantong Flite Lighting Technology	E27	250V,10A	IEC 60061	Test accordingby IEC 60061

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Attachment –A
Photo Documentation



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Photo 3



Photo 4



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Photo 5



Photo 6



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Photo 7



Photo 8



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Photo 9



---The End---

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