Test Report issued under the responsibility of:



# TEST REPORT IEC 62560 Self-Ballasted LED-Lamp

for general lighting services by voltage > 50V Safety specifications

Report Number:	AOC250605007S		
Date of issue:	2025-06-09		
Total number of pages	16 pages		
Name of Testing Laboratory preparing the Report	Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China		
Applicant's name:	XIAMEN JINQIU HAINUO TRADING CO., LTD		
Address:	Room 602, No. 898, Binhu East Road, Haicang District, Xiamen City, Fujian Province, China 361026		
Test specification:			
Standard:	IEC 62560:2011+A1:2015		
Test procedure:	Type testing		
Non-standard test method	N/A		
Test Report Form No	IEC62560C		
Test Report Form(s) Originator:	DEKRA Certification B.V.		
Master TRF:	Dated 2018-12-21		
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Test item description:	LED Spotlight
Trade Mark:	FIREFLY, DEMILUX
Manufacturer:	XIAMEN JINQIU HAINUO TRADING CO., LTD
	Room 602, No. 898, Binhu East Road, Haicang District, Xiamen City, Fujian Province, China 361026
Model/Type reference:	HT3003S
Ratings	90-250 V~, 50/60 Hz, 8W, GU10

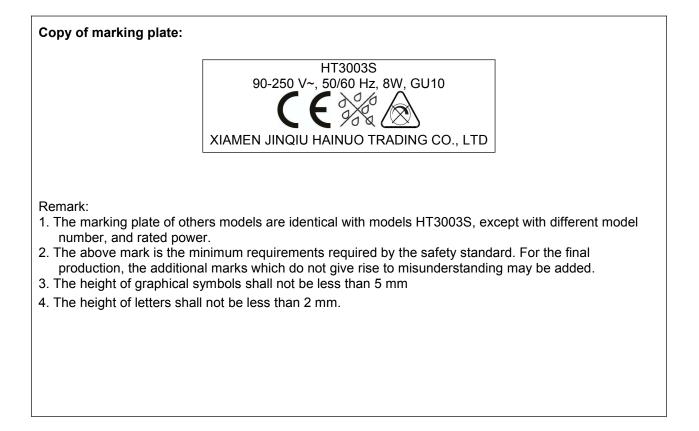
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):  $\boxtimes$ **Testing Laboratory:** Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Testing location/ address..... Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China ZhiCong Xian Tested by (name, function, signature)......: ZhiCong Xian Robin. Lin **Technical Engineer** Approved by (name, function, signature)... : Robin Liu Technical Manager N/A **Testing procedure: CTF Stage 1:** Testing location/ address.....: Tested by (name, function, signature)......: Approved by (name, function, signature)...: N/A **Testing procedure: CTF Stage 2:** Testing location/ address.....: Tested by (name + signature)..... Witnessed by (name, function, signature)..: Approved by (name, function, signature)...: **Testing procedure: CTF Stage 3:** N/A N/A **Testing procedure: CTF Stage 4:** Testing location/ address.....: Tested by (name, function, signature)......: Witnessed by (name, function, signature)..:

Approved by (name, function, signature)... : Supervised by (name, function, signature) :

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E-mail: postmaster@aoc-cert.com

List of Attachments (including a total number of pages in each attachment): Attachment No.1: Photo document.			
Summary of testing:			
Tests performed (name of test and test clause): - IEC 62560:2012+A1:2015+A11:2019	<b>Testing location:</b> Shenzhen AOCE Electronic Technology Service Co., Ltd Room 202, 2nd Floor, No.12th Building of Xinhe		
	Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China		
Summary of compliance with National Differences (List of countries addressed):			
None			



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Page 5 of 16

Test item particulars:	
Classification of installation and use:	Direct insert into lampholder
Supply Connection:	Lamp cap
Possible test case verdicts:	
- 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)
Testing:	
Date of receipt of test item:	
Date (s) of performance of tests:	2025-05-22 to 2025-06-09
Concept remarker	
General remarks: The tested sample(s) and the sample information are p	and the disc effects
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the <b>Note: National Conditions, if any, are in the Append Throughout this report a</b> □ <b>comma</b> / ⊠ <b>point is u</b> The test report only allows to be revised only within the regulation was withdrawn or invalid. When determining for test conclusion, measurement of <b>Note: clauses marked '*' not included in CNAS sco</b>	he report. dix to the main body of this TRF. sed as the decimal separator. he report defined retention period unless standard or uncertainty of tests has been considered.
Manufacturer's Declaration per sub-clause 4.2.5 of	IECEE 02:
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	<ul> <li>□ Yes</li> <li>⊠ Not applicable</li> </ul>
When differences exist; they shall be identified in t	he General product information section.
Name and address of factory (ies):	Same as manufacturer

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### General product information and other remarks:

- Self-ballasted LED-lamp and non-repairable.

### Models description:

 The construction and circuit diagrams are identical on HT3003S, all models have the same electrical and mechanical structure. All tests were performed to model HT3003S. Page 7 of 16

Report No. AOC250605007S

	IEC 62560	
Requirement + Test		Result - Remark

Verdict

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

5	MARKING		Р
5.1	Mandatory marking		Р
	- mark of origin		Р
	- rated supply voltage (V)	250 V	Р
	- rated wattage (W)	8W	Р
	- rated frequency (Hz)	50/60 Hz	Р
5.2	Addition marking		N/A
	- rated current (A):		N/A
	- weight significantly higher		N/A
	- special conditions or restrictions		N/A
	Not suitable for dimming; symbol		Р
	- not suitable for water contact		Р
5.3	Marking durable and legible		Р
	rubbing 15 s water, 15 s petroleum; marking legible		Р

6	INTERCHANGEABILITY	
6.1	Cap interchangeability in accordance with IEC 60061-1	
	Gauge in accordance with IEC 60061-3	Р
6.2	Bending moment and mass imparted by the lamp at the lampholder	
	Bending moment imparted by the lamp at the lampholder (Nm): GU10: 0.1 Nm	Р
	Mass not exceeding value table 2 or as specified in IEC 60061-1 (kg)	Р

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

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Clause

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Page 8 of 16

	IEC 62560				
Clause	use Requirement + Test Result - Remark				
	Tested with a test finger with a force of 10 N		Р		
	Compliance checked with appropriate gauges		Р		
8	INSULATION RESISTANCE AND ELECTRIC STRENGTH		Р		
8.2	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M $\Omega$ ):		Р		
	$\geq$ 4 M $\Omega$ for double or reinforced insulation	>100 MΩ	Р		
8.3	Immediately after clause 8.2 electric strength test for 1 min		Р		
	Double or reinforced insulation, 4U + 2000 V	3000 V	Р		
	No flashover or breakdown		Р		

9	MECHANICAL STRENGTH	Р
9.2.1	Torsion resistance of unused lamps	N/A
	B15d or E14 Cap 1,15 Nm	N/A
	B22d, E26, E26d or E27 Cap3,0 Nm	N/A
	E11 or E12 Cap0,8 Nm	N/A
	E17 Cap1,5 Nm	N/A
	E39 or E40 Cap5,0 Nm	N/A
	GX53 Cap3,0 Nm	N/A
9.3	Compliance criteria	Р
	Clause 8 shall comply after the mechanical strength test.	Р
9.4	Axial strength of Edison caps	Р
	After full insertion into the gauge an axial force of Table 4 is applied to the central contact (N)	P
	The insulation around the central contact shall remain intact	Р

10	CAP TEMPERATURE RISE		Р
	The cap temperature rise $\Delta t_s$ of the lamp shall not exceed 120 K.		Р

Ρ

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## Page 9 of 16

## Report No. AOC250605007S

	IEC 62560				
Clause	Requirement + Test Result - Remark Ver				
	Parts of insulating material providing protection against electric shock, retaining live parts in position, ball-pressure test:	(see appended table)	Р		

12	RESISTANCE TO FLAME AND IGNITION		
	External parts of insulating material preventing electric shock glow-wire test 650 °C	(see appended table)	Р

13	FAULT CONDITIONS		Р
13.2	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	Р
13.3	When operated under fault conditions the lamp	·	Р
	- does not emit flames or molten material		Р
	- does not produce flammable gases or smoke		Р
	- live parts not accessible		Р
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1		Р
14 (16)	CREEPAGE DISTANCES AND CLEARANCES	•	Р
	Creepage distances and clearances according to IEC 61347-1	(see appended table)	Р
	Conductive accessible parts according to IEC 60598-1	(see appended table)	Р

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

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## Page 10 of 16

Report No. AOC250605007S

	IEC 62560				
Clause	Requirement + Test	Result - Remark	Verdict		
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		
17.1	UV radiation		Р
	The LED lamp doesn't exceed 2mW/klm		Р
17.2	Blue light hazard		
	Assessed according to IEC TR 62778		Р
	LED lamps shall be RG0 or RG1	RG0	Р

18	INGRESS PROTECTION		
18.1	Lamps shall be suitable for water contact unless marked with Figure 6	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

Page 11 of 16

Report No. AOC250605007S

	IEC 62560			
Clause	Requirement + Test		Result - Remark	Verdict

11	TABLE: Ball Pressure Test of Thermoplastics				
Allowed impression diameter (mm)		2			
Object/ Part	No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
LED cover		See ANNEX 1	75	1.1	
Plastic mate lampholder	erial support the	See ANNEX 1	125	1.1	
Supplementary information:					

12	TABLE: Resist	ABLE: Resistance to heat and fire - Glow wire tests			
Object/			Glow wire test (GWT); (°C)		Verdict
Part No./ Material		Manufacturer/ trademark	650		
			te	ti	
LED cover		See ANNEX 1	0	0	pass
Plastic mate lampholder	erial support the	See ANNEX 1	0	0	pass

13	TABLE: tests of fault conditions		Р
Part	Simulated fault	Result	Hazard
BD1	Short-circuit	Fusible resistor (F1) was opened	NO
C1	Short-circuit	Fusible resistor (F1) was opened	NO
C4	Short-circuit	LED packages no working	NO
D1	Short-circuit	LED packages no working	NO

14	TABLE: Clearance And Creepage Distance Measurements						Р
clearance c distance dc	l and creepage r at/of:	Up (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Between L a	and N	-	250	1.5	>1.5	2.5	>2.5
Between live parts and accessible surface		-	250	3.0	>3.0	5	>5.0
Supplementary information:							

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Page 12 of 16

Report No. AOC250605007S

			IEC	62560				
Clause	use Requirement + Test				Result - Remark			Verdict
ANNEX 1	INEX 1 TABLE: Critical components information				Р			
Object/part No.		Code	Manufacturer/ Trademarks	Type/ model		Technical data	Standard	Mark(s) of conformity
LED cover		С	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f1) (No marking)		PC; V-0	EN 62560	Tested with appliance and UL(E4826 8)
LED PCB		С	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f1) (No marking)		PC; V-0	EN 62560	Tested with appliance and UL(E4826 8)
Plastic material support the lampholder		С	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f2) (No marking)		PC	EN 62560	Test with appliance UL/E4826 8
Fuse resistor		С	SHENZHEN GREAT ELECTRONICS CO., LTD.	RXF-1W Series (No markin		22 Ohm, 1W	EN 62560	Tested with appliance and UL(E3015 41)
		C	DONGGUAN YIAO ELECTRONICS CO LTD	3239		24AWG/26AW G, 3000Vdc,200° C	EN 62560	Tested with appliance and UL(E3489 33)
LED CC NINGBO SUNPULED		NINGBO SUNPULED CO., LTD	ST- 283565WT 36V30	Ή-	VF= 17V~20V, IF=30mA; CCT: Max. 7000K	EN 62471 IEC TR 62778	Test with appliance	

The codes above have the following meaning:

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

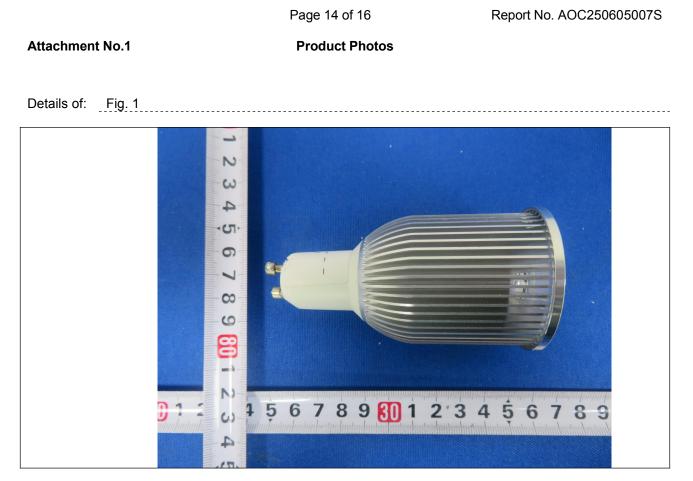
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Page 13 of 16

Report No. AOC250605007S

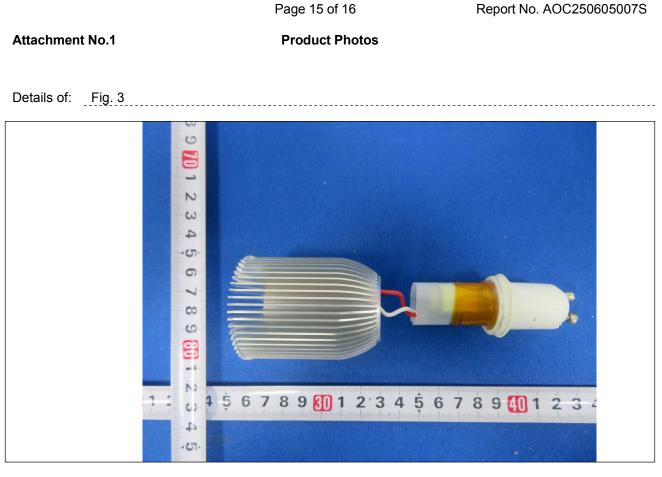
		IEC 62560					
Clause	Requirement + Test		Result - Remark	Verdict			
	ANNEX 2: temperature measurements, thermal tests of Section 10						
	Type referencet	HT3003S					
	Used ballast	1					
	Mounting position of lumina	Cap Up and Cap de					
	Supply wattage (W)	8 W					
	Supply current (A)						
	Calculated power factor						
	Table: measured temperat	ures corrected for ta = 25°0	):				
	Test: rated voltage	:	240 V				
<b>T</b>	(20) - [ ]	Test value	Result		L		
Temperature (°C) of part		Normal (°C)	Abnormal(°C)	Limit(	°C)		
internal wire		79.6	-	200	)		
E-cap.		75.3	-	180	)		
U2		89.2	-	130	)		
LED PCB		91.4	-	cl.1	1		
LED cover		47.2	-	cl.1	1		
plastic material support the lampholder		35.9	-	cl.1	1		



Details of: Fig. 2



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Details of: Fig. 4



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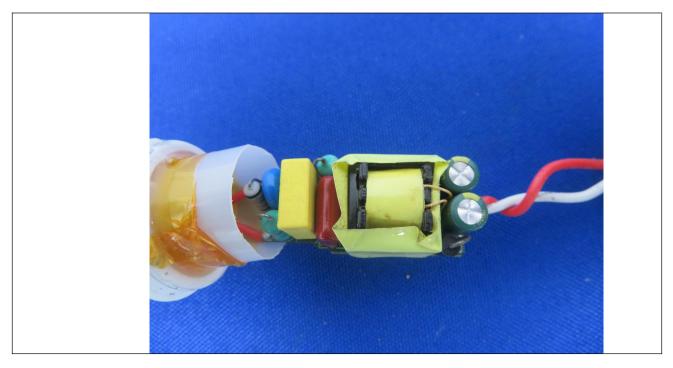
## Page 16 of 16

Report No. AOC250605007S

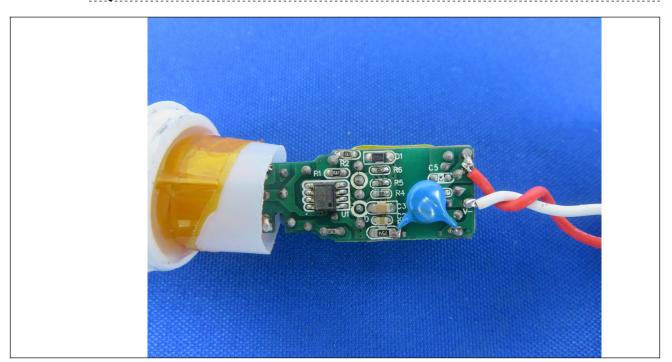
#### Attachment No.1

**Product Photos** 

Details of: Fig. 5



Details of: Fig. 6



-- End of Report --

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