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	AOC250606004S
Date of issue:	2025-06-18
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:	GUANGDONG TUBO TRADING CO.LTD.
Address:	NO.3 PLANT TWO FLOOR NO.267 DONGAN NORTH ROAD GUZHEN TOWN ZHONGSHAN CITY GUANGDONG PROVINCE CHINA
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
and Components (IECEE System). A	-
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Test item description:	LED BULB			
Trade Mark:	N/A			
Manufacturer:	Aode Qili Technology (Zhongshan) Co., LTD			
	One of the 6th floor, Building 3, No. 267,Dong'an North Road, Haizhou Village, Guzhen Town, Zhongshan City			
Model/Type reference: T230-150W, T190-100W				
Ratings:	165-250 V~, 50/60 Hz, 150W, E40			
Responsible Testing Laboratory (as a	pplicable), testing procedure and testing location(s):			
Testing Laboratory:	Shenzhen AOCE Electronic Technology Service Co., Ltd			
Testing location/ address	: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen,			

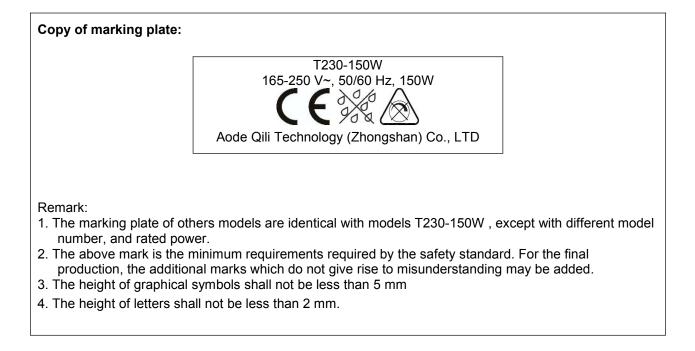
		Guangdong, China	
Tested by (name, function, signature):		ZhiCong Xian Technical Engineer	ZhiCong Xian Robin. Lin
Approved by (name, function, signature) :		Robin Liu Technical Manager	Robin. Lin
	Testing procedure: CTF Stage 1:	N/A	
Test	ting location/ address		
Test	ted by (name, function, signature):		
Арр	roved by (name, function, signature) :		
	1	1	
Testing procedure: CTF Stage 2:		N/A	
Test	ting location/ address:		
Test	ted by (name + signature)		
Witnessed by (name, function, signature):			
Арр	roved by (name, function, signature) :		
		1	
	Testing procedure: CTF Stage 3:	N/A	
Testing procedure: CTF Stage 4:		N/A	
Test	ting location/ address:		
Test	ted by (name, function, signature):		

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

Fax: (86)755-23705230 E

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:	1		
Tests performed (name of test and test clause):	Testing location:		
	Shenzhen AOCE Electronic Technology Service Co., Ltd		
All testing were performed on model T230-150W	Room 202, 2nd Floor, No.12th Building of Xinhe		
	Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China		
	District, Shenzhen, Stangaong, Shina		
Summary of compliance with National Difference	s (List of countries addressed):		
Cummary of compliance with National Differences (List of countries addressed).			
None			



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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:	2025-05-23	
Date (s) of performance of tests:	2025-05-23 to 2025-06-18	
General remarks:		
The tested sample(s) and the sample information are p "(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the Note: National Conditions, if any, are in the Append Throughout this report a \Box comma / \boxtimes point is us	pended to the report. he report. lix to the main body of this TRF.	
The test report only allows to be revised only within th regulation was withdrawn or invalid. When determining for test conclusion, measurement u	e report defined retention period unless standard or	
Note: clauses marked '*' not included in CNAS sco	-	
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		
When differences exist; they shall be identified in the	ne General product information section.	
Name and address of factory (ies)		
	One of the 6th floor, Building 3, No. 267,Dong'an North Road, Haizhou Village, Guzhen Town, Zhongshan City	

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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 T230-150W, all models have the same electrical and mechanical structure.

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IEC 62560			
Clause	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):	165-250 V~	Р
	- rated wattage (W)	150W	Р
	- rated frequency (Hz):	50/60 Hz	Р
5.2	Addition marking		Р
	- rated current (A):		N/A
	- weight significantly higher		N/A
	- special conditions or restrictions		Р
	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):	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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	IEC 62560			
Clause	e Requirement + Test Result - Remark		Verdict	
	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 Ω 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	Р
	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	Р
	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)	Р
	The insulation around the central contact shall remain intact	Р

10	CAP TEMPERATURE RISE		Р
	The cap temperature rise Δt_s of the lamp shall not exceed 120 K.	54 K	Р

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	IEC 62560				
Clause	Requirement + Test	Result - Remark	Verdict		
	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		Р
	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	3.3 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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	IEC 62560				
Clause	Requirement + Test	Result - Remark	Verdict		
16	TEST CONDITIONS FOR DIMMABLE LAMPS		N/A		
	Test are carried out at maximum power setting Clause 10 and Clause 17	for	N/A		

17	PHOTOBIOLOGICAL SAFETY	PHOTOBIOLOGICAL SAFETY		Р
17.1	UV radiation	UV radiation		Р
	The LED lamp doesn't exceed 2mW/klm		Р	
17.2	Blue light hazard	Blue light hazard		
	Assessed according to IEC TR 62778			Р
	LED BULB 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

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	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 enclo	osure	See ANNEX 1	93 (67.5+25)	1.2	
Plastic mate lampholder	rial support the	See ANNEX 1	125	1.1	
Supplement	ary information:		·		

12 T	TABLE: Resistance to heat and fire - Glow wire tests					
Object/ Part No./ Material			Glow wire te	st (GWT); (°C)	Verdict	
		Manufacturer/ trademark	650			
	-		te	ti		
LED cover		See ANNEX 1	0	0	pass	
Plastic enclosu	ıre	See ANNEX 1	0	0	pass	
Plastic materia lampholder	I 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

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IEC 62560				
Clause	Requirement + Test	Result - Remark	Verdict	

14	TABLE: Clearance And Creepage Distance Measurements					Р	
clearance c distance do	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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IEC 62560					
Clause	Requirement + Test		Result - Remark	Verdict	

ANNEX 1	TABLE: Cr	itical components informa	ation			Р
Object/part No.	Code	Manufacturer/ Trademarks	Type/ model	Technical data	Standard	Mark(s) of conformity
Plastic cover	С	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f1) (No marking)	PC; V-0	EN 62560	Tested with appliance and UL(E4826 8)
Enclosure plastic	С	BASF SE	B4406 G2(a), B4406 G2 (o) Q717(a) (No marking)	PBT; V-0	EN 62560	Tested with appliance and UL(E4187 1)
LED PCB	C	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f1) (No marking)	PC; V-0	EN 62560	Tested with appliance and UL(E4826 8)
Plastic connector	С	IDEMITSU KOSAN CO LTD	(u)Y2200(+) (f2) (No marking)	PC	EN 62560	Test with appliance UL/E4826 8
Fuse resistor	C	SHENZHEN GREAT ELECTRONICS CO., LTD.	RXF-1W Series (No marking)	22 Ohm, 1W	EN 62560	Tested with appliance and UL(E3015 41)
Input wire	С	DONGGUAN YIAO ELECTRONICS CO LTD	3239	24AWG/26AW G, 3000Vdc,200° C	EN 62560	Tested with appliance and UL(E3489 33)
LED	С	NINGBO SUNPULED CO., LTD	ST- 283565WTH- 36V30	VF= 17V~20V, IF=30mA; CCT: Max. 7000K	EN 62471 IEC TR 62778	Test with appliance

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

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IEC 62560					
Clause	Requirement + Test	Result - Remark	Verdict		
B - The c C - Integr	component is replaceable with another one component is replaceable if authorised by rated component tested together with the native component	the test house	eristics		

ANNEX 2: temperature m	ANNEX 2: temperature measurements, thermal tests of Section 10				
Type referencet	Type referencet			—	
Used ballast	Used ballast			—	
Mounting position of lumina	aire	Cap Up and Cap d	Cap Up and Cap down		
Supply wattage (W)	······································	150W			
Supply current (A)	······				
Calculated power factor	Calculated power factor				
Table: measured temperate):				
Test: rated voltage		250 V			
Temperature (°C) of part	Test value	Result			
Temperature (°C) of part	Normal (°C)	Abnormal(°C)	Limit(°C)	
internal wire	78.3	-	200)	
E-cap.	74.2	-	180)	
U2	88.4	-	130)	
LED PCB	90.7	-	cl.1	1	
LED cover	47.9	-	cl.11		
Plastic enclosure	68.4	-	cl.1	1	
plastic material support the lampholder	36.6	-	cl.1	1	

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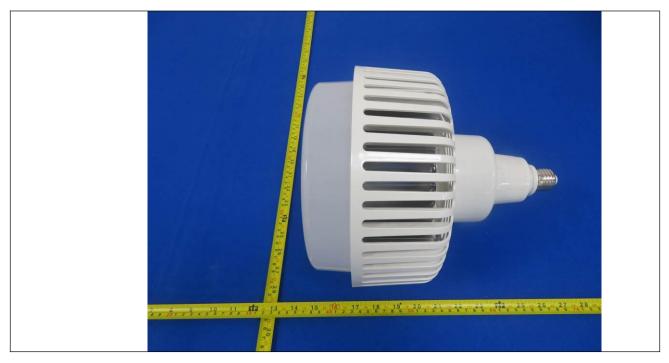
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Attachment No.1

Product Photos

Details of: Fig. 1



Details of: Fig. 2



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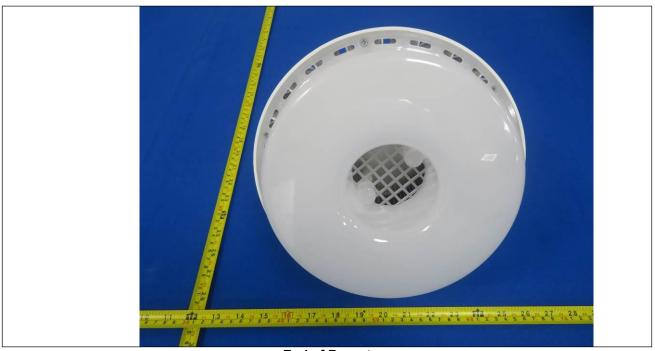
Attachment No.1

Product Photos

Details of: Fig. 3



Details of: Fig. 4



-- End of Report --

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