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:	AOC250520005S	
Date of issue:	2025-05-27	
Total number of pages	17 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:	JORDAN ZARA FOR ELECTRICAL TOOLS & MANUFACTURING CO., LTD.	
Address:	JABAL AL-HUSSEIN-AS'AD KALIL ST., AMMAN, JORDAN.	
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 BULB
Trade Mark:	Riovance,Lava,Golden Zara,Jordan Zara,Trm,Rioled
Manufacturer:	JORDAN ZARA FOR ELECTRICAL TOOLS & MANUFACTURING CO., LTD. JABAL AL-HUSSEIN-AS'AD KALIL ST., AMMAN, JORDAN.
Model/Type reference:	See Model List
Ratings	220-240 V~, 50/60 Hz, 65 W, E27

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

\bowtie	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	
Арр	roved by (name, function, signature) :	Robin Liu Technical Manager	Robin. Lin	
	Tasting and address OTE Stage 4			
	Testing procedure: CTF Stage 1:	N/A		
Test	ting location/ address:			
Test	ed by (name, function, signature):			
Арр	roved by (name, function, signature) :			
	Testing procedure: CTF Stage 2:	N/A		
Test	ing location/ address:			
Test	ted by (name + signature)			
Witr	nessed by (name, function, signature):			
Арр	roved by (name, function, signature) :			
	Testing procedure: CTF Stage 3:	N/A		
	Testing procedure: CTF Stage 4:	N/A		
Test	ing location/ address			
Test	ed by (name, function, signature):			
Witr	nessed by (name, function, signature):			
Арр	roved by (name, function, signature) :			
Supervised by (name, function, signature) :				

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):	Testing location:		
	Shenzhen AOCE Electronic Technology Service Co.,		
All testing were performed on model BBT-65	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 Difference	s (List of countries addressed):		
None			

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Copy of ma	irking plate:
	BBT-65 220-240 V~, 50/60 Hz, 65 W, E27
	JORDAN ZARA FOR ELECTRICAL TOOLS & MANUFACTURING CO., LTD.
number, 2. The abov productio 3. The heigh	ing plate of others models are identical with models BBT-65, except with different model and rated power. e mark is the minimum requirements required by the safety standard. For the final on, the additional marks which do not give rise to misunderstanding may be added. In of graphical symbols shall not be less than 5 mm of letters shall not be less than 2 mm.

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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:	2025-05-06		
Date (s) of performance of tests:	2025-05-06 to 2025-05-27		
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 □ comma / ⊠ point is u	he report. Iix to the main body of this TRF.		
The test report only allows to be revised only within th regulation was withdrawn or invalid.	e report defined retention period unless standard or		
When determining for test conclusion, measurement u	incertainty of tests has been considered.		
Note: clauses marked '*' not included in CNAS sco	pe.		
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	 □ Yes ⊠ Not applicable 		
When differences exist; they shall be identified in the 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:

- <u>The construction and circuit diagrams are identical on BBT-65, all models have the same electrical and</u> <u>mechanical structure. All tests were performed to model BBT-65.</u>

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Model No.	Power(W)
BBA-5	5W
BBA-7	7W
BBA-9	9W
BBA-10	10W
BBA-11.5	11.5W
BBA-12	12W
BBA-14	14W
BBA-16	16W
BBA-18	18W
BBA-20	20W
BBA-24	24W
BBT-29	29W
BBT-38	38W
BBT-40	40W
BBT-45	45W
BBT-58	58W
BBT-60	60W
BBT-62	62W
BBT-65	65W

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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):	220-240 V	Р
	- rated wattage (W)	65 W	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		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): E27, 2 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	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 Ω):		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	2960V	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	Р
	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)	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.		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	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		P
	Non-dimmable self-ballasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8	F	Ρ
	Operate the lamp for 8 h at most onerous dimming level	F	Р
	When operated under abnormal operation the lamp	F	Р
	- does not catch fire	F	Р
	- does not produce flammable gases	F	Р
	- live parts not accessible	F	Р

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IEC	6756	•

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

18	INGRESS PROTECTION		N/A	
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 diameter (n		
LED cover		See ANNEX 1	75	1.1	
Plastic enclo	osure	See ANNEX 1	93 (67.5+25)	1.2	
Plastic material support the lampholder		See ANNEX 1	125	1.1	
Supplement	ary information:				

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

13	TABLE: tests of fault conditions		
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 cl and creepage Up distance dcr at/of: (V)			U r.m.s. (V)	Required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Between L and N		-	240	1.5	>1.5	2.5	>2.5

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			IEC 62	2560	_		
Clause	Requirement + Test				Result - Remark		Verdict
Between live parts and accessible surface		-	240	3.0	>3.0	5	>5.0
Supplemen	tary information:						

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			IEC	62560			
Clause	Re	quirement +	Test	R	esult - Remark		Verdict
ANNEX 1		TABLE: Cr	itical components informa	ation	n		
Object/part	No.	Code	Manufacturer/ Trademarks	Type/ mode	Technical data	Standard	Mark(s) of conformity
Plastic cove	r	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		С	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 resisto	r	С	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

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

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	IEC 62560							
Clau	use	se Requirement + Test Result - Remark Ve						
B C D	- Integra	omponent is replaceable if authorised by ated component tested together with the ative component						

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		IEC 62560			
Clause	Requirement + Test		Result - Remark	Verdict	
	ANNEX 2: temperature m	easurements, thermal te	sts of Section 10		Р
	Type referencet	BBT-65			
	Used ballast	······	1		
	Mounting position of lumina	aire	Cap Up and Cap d	own	
	Supply wattage (W)	······	65 W		
	Supply current (A)				
	Calculated power factor				
	Table: measured temperat	ures corrected for ta = 25°0):		
	Test: rated voltage	:	240 V		
T	(0 0) of a ort	Test value	Result		
remperau	ure (°C) of part	Normal (°C)	Abnormal(°C)	Limit(°C)
	internal wire	79.4	-	200)
	E-cap.	75.3	-	180)
	U2	89.2	- 13)
LED PCB 91.1			-	cl.1	1
LED cover 47.2			-	cl.1	1
	Plastic enclosure	67.5	-	cl.11	
plas	tic material support the lampholder	35.9	-	cl.1	1

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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



-- End of Report --

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