



SAFETY TEST REPORT

MEASUREMENT AND TEST REPORT For

SHEN ZHEN AGLARE LIGHTING CO.,Ltd.

Factory 4, Supply and Marketing Cooperative Park Fu Cheng Avenue, Longhua
New District, ShenZhen City

Models: YJLED-070-SN18RGB-WB-C10(Look at page 3 for details)

June 30, 2021

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Amusement LED Lamp
Test Standard:	EN 62560:2012+A11:2019
Report Number:	CTB210618016SX
Test Date:	July 24 - 26, 2019
Test category:	Consignment test
Prepared By:	Shenzhen CTB Testing Technology Co., Ltd. Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China Tel: 4008-707-283 E-mail: ctb@ctb-lab.net Web: http://www.ctb-lab.net

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen CTB Testing Technology Co., Ltd.

TEST REPORT**EN 62560****Self-Ballasted LED-Lamp for general lighting services by voltage > 50V Safety specifications**

Report reference No..... : CTB210618016SX

Date of issue..... : July 30, 2020

Testing laboratory

Name..... : Shenzhen CTB Testing Technology Co., Ltd.

Address..... : Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

Client

Name : SHEN ZHEN AGLARE LIGHTING CO.,Ltd.

Address : Factory 4, Supply and Marketing Cooperative Park Fu Cheng Avenue, Longhua New District, ShenZhen City

Test specification

Standard..... : EN 62560:2012+A11:2019

Test procedure..... : Safty report

Procedure deviation..... : N.A.

Non-standard test method.. : N.A.

Test Report Form No..... : IEC62560B

TRF originator : DEKRA Certification B.V.

Master TRF : 2015-11-27

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Test item

Description..... : Amusement LED Lamp

Model No. : YJLED-070-SN18RGB-WB-C10(Look at page 3 for details)

Trade Mark..... : aglare

Manufacturer..... : SHEN ZHEN AGLARE LIGHTING CO.,Ltd.

Address..... : Factory 4, Supply and Marketing Cooperative Park Fu Cheng Avenue, Longhua New District, ShenZhen City

Rating(s)..... : 100-240V~ 50Hz, 1.5W

Particulars: test item vs. test requirements

Equipment mobility.....	: Self-Ballasted Equipment
Class of equipment.....	: Class II
Degree of protection	: IPX0
Supply construction.....	: E17 lamp cap

Possible test case verdicts:

- test case does not apply to the test object..... : N(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.....	: July 24, 2019
Date (s) of performance of tests.....	: July 24 - 26, 2019
Laboratory sample number.....	: 190724006-1X
Sample appearance and function are in normal condition, yes or no.....	: Yes
Ambient temperature.....	: 24-25°C
Ambient humidity.....	: 60-65%

General remarks:

The test results presented in this report relate only to the object tested.
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 Laboratory CTB. The authenticity of this Test Report and its contents can be verified by contacting CTB, responsible for this Test Report.
 "(see Enclosure #)" refers to additional information appended to the report.
 "(see appended table)" refers to a table appended to the report.
 Throughout this report a comma / point is used as the decimal separator.

General product information:

- The apparatus is indoor used only.
- The max. operated temperature is considered as 25°C for no declaration from manufacture.
- Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.
- Self-ballasted Non-SELV LED lamps, integrated with E17 lamp cap, non-dimmable.
- Model: YJLED-070-SN18RGB-WB-C10, YJLED-070-SN16RGB-WB-C10-D001, YJLED-071-SN18RGB-WB-C10, YJLED-071-SN16RGB-WB-C10-D001, YJLED-006G-SV14RGB-WB-C10, YJLED-004G-SN21RGB-WB-C10, YJLED-006G-SV14RGB-WB-D10, YJLED-004G-SN21RGB-WB-D10, YJLED-018-SV20W80K, YJLED-LAMP HOUSING-C07 GREEN, YJLED-LAMP HOUSING-C05 YELLOW, YJLED-LAMP HOUSING-C09 PURPLE, YJLED-LAMP HOUSING, YJLED-004E-SM35W80K, YJLED-004E-SM35W30K, YJLED-006E-SN24W30K, YJLED-006E-SN24W80K, YJLED-054-BS288RGB-WB-I-H32-1M, YJLED-054-BS288RGB-WB-I-H38-1M, YJLED-004B-S18RGB-WB-C10, YJLED-004B-S18RGB-WB-A10, YJLED-004B-S18RGB-WB-D10, YJLED-006B-S10RGB-WB-A10, YJLED-006B-S10RGB-WB-C10, YJLED-006B-S10RGB-WB-D10, YJLED-056-SN18RGB-WB-C10, YJLED-056-SN18RGB-WB-B10, YJLED-053B-S30RGB-WB-A, YJLED-058-SV14RGB-WB-C10, YJLED-058-SV14RGB-WB-C10, YJLED-060-SN18RGB-WB-B10, YJLED-004D-S16RGB-WB-A10-D001, YJLED-004D-S16RGB-WB-A10-D025, YJLED-004D-S16RGB-WB-A10-C001, YJLED-004D-S16RGB-WB-C10-D001, YJLED-004D-S16RGB-WB-C10-D025, YJLED-004D-S16RGB-WB-C10-C001, YJLED-004D-S16RGB-WB-D10-D001, YJLED-004D-S16RGB-WB-D10-D025, YJLED-004D-S16RGB-WB-D10-C001, YJLED-006D-S9RGB-WB-A10-D001, YJLED-006D-S9RGB-WB-A10-D025, YJLED-006D-S9RGB-WB-A10-C001, YJLED-006D-S9RGB-WB-C10-D001, YJLED-

006D-S9RGB-WB-C10-D025, YJLED-006D-S9RGB-WB-C10-C001, YJLED-006D-S9RGB-WB-D10-D001, YJLED-006D-S9RGB-WB-D10-D025, YJLED-006D-S9RGB-WB-D10-C001 are identical for construction, working principle. The only difference is model name and outlook appearance for decoration. All tests were performed on model YJLED-070-SN18RGB-WB-C10

Report Revision History:

The current report with no.: CTB210618016SX is based on previous report no.: CTB200713004SX dated on July 29, 2019 issued by CTB testing lab to do below changes or amendments.

1. Change model no.

All above models are identical, except for model no., color & trade mark difference for trading purpose.

2. Others do not any change or amendment and not need to do any more testing in the report.

Copy of marking plate:



Remark for above marking:

- 1. The height of graphical symbols shall not be less than 5 mm;
- 2. The height of letters and numerals shall not be less than 2 mm;
- 3. The main rating label was attached in enclosure,

Summary of testing:

The submitted sample were tested and found to compliance with requirements of the standards EN 62560:2012+A11:2019

Testing procedure and testing location

Laboratory name..... : Shenzhen CTB Testing Technology Co., Ltd.
Testing location/address: : Floor 1&2, Building A, No. 26 of Xinh Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China
Testing procedure : TL RMT SMT WMT TMP
Tested By : Wu Liang
(Test Engineer) *Wu Liang*

Reviewed By : Kubo Lee
(Supervisor) *Kubo Lee*

Approved By : Peter Chen
(Chief Engineer) *Peter Chen*



EN 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		P
	- rated supply voltage (V).....: 100-240V		P
	- rated wattage (W).....: 1.5W		P
	- rated frequency (Hz).....: 50Hz		P
5.2	Addition marking		P
	- burning position		N
	- rated current (A).....:		N
	- weight significantly higher		N
	- special conditions or restrictions		N
	- not use suitable for water		N
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 EN 60061-1		P
	Gauge in accordance with EN 60061-3	All applicable dimensions comply with the standard sheet.	P
6.2	Bending moment		P
	Bending moment imparted by the lamp at the lampholder		P
	E27: 2.0Nm		P
	an axial pull of 40N or a bending moment of 3Nm		P
	GU10 Bending moment: 0.1Nm		N
7	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		P
	Internal, basic insulated or live metal parts not accessible		P
	Tested with a test finger with a force of 10 N		P
	Compliance checked with appropriate gauges		P
8	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P

EN 62560			
Clause	Requirement + Test	Result - Remark	Verdict
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.....:	>100 MΩ	P
	The current flowing between the part concerned and earth is measured and does not exceed 0,7 mA (peak) or 2 mA d.c.		P
	For frequencies above 1 kHz, the value does not exceed the limit of 70 mA (peak)		N
	The voltage between the part concerned and any accessible part is not more than 34V (peak)		P
8.3	Immediately after clause 8.2 electric strength test for 1 min		P
	HV type cap	4000V	P
	No flashover or breakdown	(see appended table)	P

9 MECHANICAL STRENGTH			
	Torsion resistance of unused lamps		P
9.1	Torque test		P
	B 15 d Cap..... 1,15 Nm		N
	B 22 d Cap..... 3,0 Nm		N
	E 11 Cap..... 0,8 Nm		N
	E 12 Cap..... 0,8 Nm		N
	E 14 Cap..... 1,15 Nm		N
	E 17 Cap..... 1,5 Nm		N
	E 26 or E27 Cap..... 3,0 Nm		P
	GX 53 Cap..... 3,0 Nm		N
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.	(see appended table)	P

11 RESISTANCE TO HEAT			
	Parts of insulating material retaining live parts in position, ball-pressure test:		P
	- part; test temperature (°C)	See appended table	P
	- part; test temperature (°C)		P
	- part; test temperature (°C)		P

EN 62560			
Clause	Requirement + Test	Result - Remark	Verdict

12	RESISTANCE TO FLAME AND IGNITION		P
	Parts of insulating material retaining live parts in position and external parts of insulating material preventing electric shock glow-wire test 650 °C	PCB; E17 cap plastic, LED cover	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
	Lamp withstands overpower condition >15 min.		N
	Lamp fails safe after 15 min overpower condition		N
	Lamp with automatic protective device or power limiter, test performed 15 min. At limit.		N
13.3	Extreme electrical conditions (non-dimnable lamps)		P
	Lamp withstands overpower condition >15 min.		P
	Lamp fails safe after 15 min overpower condition		P
	Lamp with automatic protective device or power limiter, test performed 15 min. At limit.		P
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 Table 3 and 4 of EN 61347-1, as appropriate	(see appended table)	P
	Printed boards see clause 14 of EN 61347-1		P
	Insulating lining of metallic enclosures		P

15	Abnormal operation		P
	Self-ballasted lamps shall not create hazard under abnormal operating conditions.		P

16	Test conditions for dimmable lamps		N
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EN 62560			
Clause	Requirement + Test	Result - Remark	Verdict

	Test shall be carried out at maximum power setting for Clause 10 and Clause 17.		N
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18	Ingress protection		N
18.1	Lamps shall be suitable for water contact unless marked with Figure 6.		N
18.2	The lamp is subjected to an IPX4 test according to IEC 60598-1.		N

EN 62560			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Internal wire	CHIANG YU ENTERPRISE INC	1569	24AWG,105°C	UL 758	UL	
Heat shrinkable tube	DONGGUAN SALIPT CO LTD	SALIPT S-901-600	VW-1,600V,125°C	UL 224	UL	
Fuse	(Various)	(Various)	6.8Ω, 1W	EN 60065	VDE	
PCB	(Various)	(Various)	105°C V-0	UL 796	UL	
transformer	(Various)	(Various)	Class B	EN 61558	Tested with appliance	
Enclosure/ Insulation materials	(Various)	(Various)	PBT, V-0, 130°C, min thick.:2.0mm	UL 746	UL	
Supplementary information:						
1) Provided evidence ensures the agreed level of compliance.						

8.3	Electric strength			P
Test points		Test voltage		Results
Between	To			
Live parts	enclosure	4000V		No breakdown

10	Temperature measurements, thermal tests of Section 10		P
	Type reference.....:	A65-20W	—
	Lamp used.....:	LED BULB	—
	Lamp control gear used :	Integrated	—
	Mounting position of luminaire.....:	Normal use	—
	Supply wattage (W).....:	1.8W	—
	Supply current (A).....:		—
	Table: measured temperatures corrected for $t_a = 25\text{ °C}$:		P
	- abnormal operating mode.....:	No abnormal operation	—
	- test 1: rated voltage.....:	230V	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....:		—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage.....:		—
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....:		—

EN 62560			
Clause	Requirement + Test	Result - Remark	Verdict

temperature (°C) of part	Clause 10 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	Limit
LED lead wire	45.8	-	-	180	-	-
lampshade	41.3	-	-	90	-	-
PCB	48.1	-	-	130	-	-
C2	43.6	-	-	105	-	-
E17 cap	50.7	-	-	145	-	-
Ambient	25.0	-	-	-	-	-

11	TABLE: Ball Pressure Test of Thermoplastics		P
Allowed impression diameter (mm)		≤ 2mm	—
Part	Test temperature (°C)	Impression diameter (mm)	
PCB	125	0.9	
E27 lamp plastic	125	1.1	
LED cover	125	1.2	
Supplementary information: —			

13	TABLE: tests of fault conditions		P
Part	Simulated fault	Result	Hazard
RS1	Short-circuited	Unit shut down, can recoverable	NO
Output	Short-circuited	Unit shut down, can recoverable	NO
R2	Short-circuited	Unit shut down, can recoverable	NO
C2	Short-circuited	Unit shut down, can recoverable	NO
DB1	Short-circuited	Fused open immediately, can not recoverable	NO

14(16)	TABLE: Clearance And Creep age Distance Measurements					P
clearance cl and creepage distance decry at/of:	Up (V)	U rms. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Minimum distances between live parts of different polarity	372	230	1.7	>2.5	2.5	>2.5
Minimum distances between live parts and accessible parts	372	230	3.0	>5.0	5.0	>5.0
Supplementary information: —						

Appendix
Photo documentation

Photo 1

front

rear

right side

left side

top

bottom

internal



*****End of this report*****