



TEST REPORT IEC 62612:2018 Self-ballasted LüED-lamps for general lighting services with supply voltages >50 V - Performance requirements	
Report Reference No.	AOC251013006ER
Tested by (name + signature)	Bill Hu <i>Bill Hu</i>
Approved by (name + signature) :	Robin Liu <i>Robin Liu</i>
Date of issue.....	2025-10-13
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Testing Laboratory	Shenzhen AOCE Electronic Technology Service Co., Ltd
Address.....	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Applicant's name	Jiangmen Youcai Lighting Appliance Co., Ltd
Address.....	4th Floor, Building 1, Modern Industrial Park, No. 152 Linjiang Road, Jianghai District, Jiangmen City, Guangdong Province, P.R China (Information Declaration)
Test specification:	
Test standard.....	IEC 62612:2018 Self-ballasted LED-lamps for general lighting services with supply voltages >50 V - Performance requirements
Non-standard test method.....	N/A
Test Report Form No.	TRF.IEC_62612_A
TRF Originator	AOCE
Master TRF.....	Dated 2023-03
Test item description	T8 GLASS TUBE
Trade Mark	Kaisuki,TZL,YOUCai,SL,TEWC,YAZAKI,Afg
Manufacturer.....	Same as applicant
Model/Type reference.....	UC-T8-1.2M-20W-130
Ratings.....	220-240V~, 50/60Hz, 0.150A, 20W

**Test item description.....:**

Trade Mark: Kaisuki,TZL,YOUCai,SL,TEWC,YAZAKI,Afg
Model/Type reference: UC-T8-1.2M-20W-130
Ratings electrical paremeters.....: 220-240V ~ , 50/60Hz, 0.150A, 20W
Rated displacement factor: 0.7
Lamp shape.....: T8
Lamp base.....: G13
Dimmable or not.....: Not
Rated luminous flux.....: 2600lm
Rated Efficacy.....: 130lm/W
Declared CCT.....: 6500K
Declared color rendering index: 80
Declared chromaticity co-ordinate....: 3 SDCM
Declared life time.....: 20000h
Claimed lumen maintenance.....: 80%

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: Jan. 13.2025
Date (s) of performance of tests.....: Jan. 13.2025 to Oct. 9.2025
Sample Code of report.....:

Model	Numbers	Sample Code of lab.	Sample Code of report
UC-T8-1.2M-20W-130	55	250110012049-01 250110012049-55	R_S1 to R_S55

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item(s) tested.

"(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 (.) is used as the decimal separator.

When determining of test conclusion. measurement uncertainty of test has been considered.

**General product information:**

The submitted samples was self-ballasted LED lamps for general use.

Lamp dimension:

Lamp diameter: 26 mm Lamp MOL: 1200 mm

Manufacture : Jiangmen Youcai Lighting Appliance Co., Ltd

Manufacture address: 4th Floor, Building 1, Modern Industrial Park, No. 152 Linjiang Road, Jianghai District, Jiangmen City, Guangdong Province, P.R China (Information Declaration)

Summary of testing:

More details of sample size please see the following table:

Test	Representative Model
Dimensions	Same 5 units for all tests
Luminous intensity distribution	
Lamp power	
Displacement factor	
Luminous flux	Same 20 unit s for all tests
Efficacy	
Chromaticity tolerance	
Correlated colour temperature	
Colour rendering index	
Lumen maintenance	
Temp erature cycling. energised	10
Supply voltage switching	10
Accelerated operational life test	10

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Representation:

T8 GLASS TUBE Kaisuki Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE TZL Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE YOUcai Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C
T8 GLASS TUBE SL Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE TEWC Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE YAZAKI Model: UC-T8-1.2M-20W-130 Rating: 220-240V~, 50/60Hz, 0.150A, 20W Rated luminous flux (lm):2600lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.7 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C



T8 GLASS TUBE	Afg
Model: UC-T8-1.2M-20W-130	
Rating: 220-240V~, 50/60Hz, 0.150A, 20W	
Rated luminous flux (lm): 2600lm	
Rated life: 20000h	
CCT: 6500K	
Rated efficacy: 130lm/W	
Dimensions: Ø26×H1200mm	
Displacement factor: 0.7	
Manufacturer:	
Jiangmen Youcai Lighting Appliance Co., Ltd	
    	
Made In China	ta: -20 to 45°C

According to Appendix 1. 60Hz was selected for all the tests.

All the parameters mentioned in the standard IEC 62612:2018 and complied with the requirements in this standard except for items that are not tested..



Critical components information:					P
Object/part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ^{1) 2)}
G13 lamp cap	Nanjing Xinhao Lighting Technology Co., Ltd	G13 lamp cap	--	IEC 62776	Tested with appliance
- Pins of lamp cap	Honghuicheng Hardware (Shenzhen) Co., Ltd	--	Ø2.4 mm; copper: > 60%	IEC 62776	Tested with appliance
- Plastic of lamp cap	Covestro Deutschland AG [PC Resins]	6165 X + (z)(f1)	PC; V-0; 125°C	--	Tested with appliance & UL E41613
- Fuse in lamp cap	Xuyi Sanwei Electric Co. Ltd.	RXF	0.22Ω	IEC 62368-1 EN IEC 62368-1	VDE 40037299
LED	Jiangxi MTC Lighting Co., Ltd	MK7XM-F	SMD; VF= 6.0-6.4 Vdc, IF: 150 mA, 3000-7000K; Size:3.48×2.74×0.6 8mm	IEC 62776	Test report No. XXXX Tested in appliance
LED PCB	Jiangxi chishuo Technology Co Ltd	TSX-1	105°C; V-0	--	Tested with appliance & E502180
Internal wires	Dong Guan Sheng Pai Electric Wire & Cable Co Ltd	H05S-K	180 °C, 0,5 mm ²	EN 50525-2-41	VDE 40054152
Insulation tape	SYMBIO INC	33146+	130°C	--	Tested with appliance & UL E50292
LED driver:LK-106 V1					
Fuse resistor	XIAMEN KOMING ELECTRONICS CO LTD	RXF-1/2W	4.7Ω	EN IEC 62368-1	Tested with appliance & UL E321729
-Bobbin of Inductance	CHANG CHUN PLASTICS Co., Ltd.	T375J	PMC; V-0; 150°C	--	Tested with appliance & E59481
-Magnet wire of Inductance	DONG GUAN YIDA INDUSTRIAL CO LTD	xUEW/155	155°C	--	Tested with appliance & E344055
Insulation tape of Inductance	SYMBIO INC	33146+	130°C	--	Tested with appliance & UL E50292



PCB	Zhejiang Yunkai Elec Tech Co Ltd	YKPCB-2	V-0, 130°C	IEC 62776	Tested with appliance & UL E466488
Electrolytic capacitor(C1)	Fujian Yunxing Electronics Co., Ltd	6.8uF	6.8uF 400V 130 °C	IEC 62776	Tested with appliance
Electrolytic capacitor(C2)	Fujian Yunxing Electronics Co., Ltd	2.2uF	2.2uF 400V 105 °C	IEC 62776	Tested with appliance

Supplementary information:

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

²⁾ License available upon request.



IEC 62612:2018			
Clause	Requirement – Test	Result - Remark	Verdict
	PERFORMANCE REQUIREMENTS		
4	General requirements on tests		P
	Comply with this standard will start and operate satisfactorily at voltages between 92 % and 106 % of rated supply voltage and at an ambient air temperature between –20 °C and 40 °C and in a luminaire complying with IEC 60598-1.	Complied	P
5	Marking		P
	a) Rated luminous flux (lm). rated colour and for directional lamps only. beam angle	2600lm	P
	b) Lamp photometric code including initial and maintained colour variation category	-	N/A
	c) Rated life (h) and the related lumen maintenance (x)	20000h	P
	d) Failure fraction (Fy). corresponding to the rated life	-	N/A
	e) For dirctional lamps only. peak intensity(cd)	-	N/A
	f) Rated colour including initial and aintained colour variation category	6500K	P
	g) Ageing time (h). if different to 0 h	-	N/A
	h) Rated efficacy (lm/W)	130lm/W	P
	i) Dimensions. including dimensional tolerances	Ø26×H1200mm	P
	j) Displacement factor	0.7	P
6	Dimensions		P
	Comply with the requirements as indicated by the manufacture and responsoble vendors	Complied with requirements as indicated by the manufacturer.	P
8	Lamp input		P
8.1	Lamp power		P
	The initial power consumed by each individual LED lamp in the measured sample shall not exceed the rated power by more than 10 %.	See appendix 3	P
	The average of initial power consumed by the LED lamps in the measured sample shall not exceed the rated power by more than 7.5 %.	Rated: 20 W; Measured: 18.59 W; Deviation: -7.05%	P
8.2	Displacement factor		P
	The measured displacement factor for each individual lamp of the sample shall not be less than the marked value by more than 0.05	See appendix 3 Rated: 0.7	P
9	Light output		P
9.1	Luminous flux		P
	For non-directional LED Lamps. the rated luminous flux should be preferably be one of the following values: 100lm. 150lm. 250lm. 350lm. 500lm. 800lm. 1000lm. 1500lm. 2000lm. 3000lm.		
	The initial luminous flux of each individual LED lamp in the measured sample shall not be less than the rated luminous flux by more than 10 %	See appendix 3	P



IEC 62612:2018			
Clause	Requirement – Test	Result - Remark	Verdict
	The average initial luminous flux of the LED lamps in the measured sample shall not be less than the rated luminous flux by more than 7.5 %.	Rated: 2600 lm; Luminous flux: 2462.1 lm; Deviation: -5.30%	P
9.2	Luminous intensity distribution. peak intensity and beam angle		N/A
9.2.1	The requirements of 9.2.4 and 9.2.5 are to be applied to LED lamps having a directional (spot) distribution.	Not applicable	N/A
9.2.3	Luminous intensity distribution		P
	The initial distribution of luminous intensity shall be in accordance with that declared by the manufacturer.	See appendix 2	P
9.2.4	Peak intensity value		N/A
	the initial peak intensity of each individual LED lamp in the measured sample shall not be less than 75 % of the rated intensity.	Not applicable	N/A
9.2.5	Beam angle value		N/A
	the initial beam angle value of each individual LED lamp in the measured sample shall not deviate by more than 25 % of the rated value.	Not applicable	N/A
9.3	Efficacy		P
	the LED lamp efficacy shall not be less than 80 % of the rated LED lamp efficacy as declared by the manufacturer or responsible vendor.	Rated:130 lm/W; Light efficacy: 132.44 lm/W; Deviation: +1.88%	P
10	Colour nomenclature. variation and rendering		P
10.1	Colour variation categories		P
	the measured chromaticity co-ordinate values of an LED lamp (initial value) shall not move beyond the chromaticity coordinate tolerance category as indicated by the manufacturer or responsible vendor	See appendix 3 3 SDCM	P
	the measured chromaticity co-ordinate values of an LED lamp (maintained value) shall not move beyond the chromaticity coordinate tolerance category as indicated by the manufacturer or responsible vendor		P
10.2	Colour rendering index (CRI)		P
	The measured CRI values shall not be lower than 3 point from the rated CRI.	See appendix 3 Rated: 80.0	P
11	Lamp Life		P
11.2	Lumen maintenance		P
	a) The measured luminous flux value at 25 % of rated life (with a maximum duration of 6 000 h) shall never be less than the luminous flux pertaining to the maximum lumen maintenance value related to the rated life as defined and provided by the manufacturer or responsible vendor		P
	b) The calculated lumen maintenance shall correspond with the lumen maintenance code as defined and provided by the manufacturer or vendor.		P
11.3	Endurance tests		P
11.3.2	Temperature cycling test		P



IEC 62612:2018			
Clause	Requirement – Test	Result - Remark	Verdict
	The LED lamp is placed in a test chamber in which the temperature is varied from – 10 °C to +40 °C over a 4 h period and for a test duration of 250 periods (1 000 h). The LED lamp is switched on at test voltage for 34 min and off for 34 min.		P
	At the end of the test all the LED lamps shall operate and have a luminous flux which stays within the claimed lumen maintenance code for a period of at least 15 min and show no physical effects of temperature cycling such as cracks or delaminating of the label.		P
11.3.3	Supply switching test		P
	The LED lamp shall be operated continuously without switching at a test voltage and at a temperature corresponding to 10 K above the maximum specified operating temperature		P
	At the end of the test all the LED lamps shall operate and have a luminous flux which stays within the claimed lumen maintenance code for a period of at least 15 min.	See appendix 5	P
11.3.4	Operational high temperature stree test		P
	The LED lamp shall be operated continuously without switching at a test voltage and at a temperature corresponding to 10 K above the maximum specified operating temperature		P
	At the end of this test. and after cooling down to room temperature and being stabilised. all the lamps shall at least a luminous flux of 70% compared to the initial value for at least 15 min	See appendix 6	P

**Appendix 1 The Compare Between Rated Frequency**

Sample No.	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Luminous Flux(lm)	Luminaire Efficacy(Lm/W)
R_S1	230.00	50	0.151	18.37	0.529	2461.6	134.0
R_S2	230.00	50	0.152	18.74	0.536	2588.0	138.1
R_S3	230.00	60	0.155	19.00	0.533	2358.9	124.1
R_S4	230.00	60	0.151	18.72	0.539	2541.0	135.7

**According to the above test data. 60Hz data is more worse. 60Hz was selected for all the tests.*

**Appendix 2 Luminous Intensity Distribution**

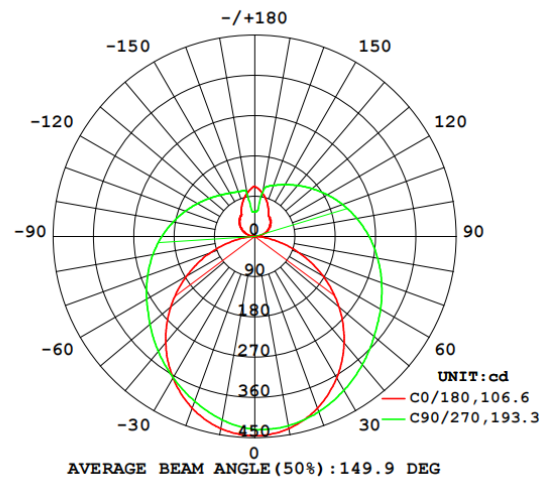
Sample code: R_S5

Voltage (V)	Current (A)	Power (W)	Power factor	Luminous flux(lm)	Peak intensity(cd)	Beam angle(°)	Efficacy (lm/W)	Output flux ratio in π solid angle
230.00	0.153	18.600	0.526	2387.8	449.8	149.9	128.38	44.90%

Light Distribution Curve. Zonal lumen summary

γ	Φ zone	Φ total	%lum, lamp
0- 10	42.82	42.82	1.79, 1.79
10- 20	122.4	165.3	6.92, 6.92
20- 30	186.2	351.4	14.7, 14.7
30- 40	228.6	580.0	24.3, 24.3
40- 50	247.6	827.7	34.7, 34.7
50- 60	245.3	1073	44.9, 44.9
60- 70	227.7	1301	54.5, 54.5
70- 80	200.8	1501	62.9, 62.9
80- 90	172.9	1675	70.1, 70.1
90-100	151.8	1826	76.5, 76.5
100-110	132.8	1959	82, 82
110-120	111.1	2070	86.7, 86.7
120-130	96.24	2166	90.7, 90.7
130-140	79.18	2246	94, 94
140-150	61.82	2307	96.6, 96.6
150-160	44.00	2351	98.5, 98.5
160-170	27.29	2378	99.6, 99.6
170-180	9.394	2388	100, 100

Zonal lumen summary



Light Distribution Curve

**Appendix 3 Initial Test Data**

Sample No.	Voltage (V)	Current (A)	Power (W)	Displacement factor	Luminous flux(lm)	Color tolerance (SDCM)*	CCT	CRI
R_S6	230.00	0.152	18.56	0.74	2459.8	0.5	6423	82.3
R_S7	230.00	0.153	18.65	0.74	2443.5	0.6	6450	82.7
R_S7	230.00	0.152	18.32	0.73	2481.6	1.0	6478	82.9
R_S9	230.00	0.150	18.15	0.73	2589.1	0.7	6411	82.8
R_S10	230.00	0.152	18.77	0.74	2584.5	0.7	6500	82.7
R_S11	230.00	0.152	18.42	0.74	2457.9	0.8	6467	82.4
R_S12	230.00	0.153	18.86	0.74	2355.0	0.6	6407	82.8
R_S13	230.00	0.153	18.47	0.74	2390.8	1.0	6497	82.7
R_S14	230.00	0.155	18.93	0.74	2527.1	1.0	6433	83.0
R_S15	230.00	0.151	18.41	0.73	2574.1	0.7	6463	82.7
R_S16	230.00	0.154	18.63	0.73	2436.4	1.0	6440	83.0
R_S17	230.00	0.154	19.09	0.74	2447.6	0.9	6455	82.2
R_S18	230.00	0.153	18.51	0.74	2367.6	0.6	6495	82.7
R_S19	230.00	0.155	18.54	0.73	2380.5	0.6	6411	82.3
R_S20	230.00	0.152	18.63	0.75	2398.1	0.6	6484	82.2
R_S21	230.00	0.152	18.49	0.74	2430.7	0.8	6490	82.0
R_S22	230.00	0.152	18.56	0.75	2559.7	0.7	6427	82.3
R_S23	230.00	0.154	18.67	0.74	2382.2	0.5	6486	82.3
R_S24	230.00	0.155	18.72	0.74	2569.1	1.0	6500	82.5
R_S25	230.00	0.150	18.49	0.73	2407.1	0.8	6495	82.8
Average	230.00	0.153	18.59	0.74	2462.1	0.8	6461	82.6

*Note: Color tolerance is based on IEC 6500K.

**Appendix 4 Temperature Cycling Test Data**

Sample No.	Initial Luminous Flux(lm)	After Temperature Cycling Test Luminous Flux(lm)	Lumen Maintenance
R_S26	2414.5	2272.3	94.11%
R_S27	2454.5	2360.5	96.17%
R_S28	2577.8	2443.0	94.77%
R_S29	2459.1	2296.8	93.40%
R_S30	2498.4	2369.3	94.83%
R_S31	2436.9	2308.9	94.75%
R_S32	2477.2	2307.0	93.13%
R_S33	2435.1	2276.8	93.50%
R_S34	2499.4	2401.2	96.07%
R_S35	2394.9	2229.4	93.09%
Average	2464.8	2326.5	94.39%

**Appendix 5 Supply Switching Test Data**

Sample No.	Initial Luminous Flux(lm)	After Temperature Cycling Test Luminous Flux(lm)	Lumen Maintenance
R_S36	2547.1	2410.5	94.64%
R_S37	2481.1	2359.8	95.11%
R_S38	2523.1	2428.7	96.26%
R_S39	2363.0	2264.3	95.82%
R_S40	2571.1	2475.9	96.30%
R_S41	2425.5	2318.5	95.59%
R_S42	2396.0	2258.7	94.27%
R_S43	2355.6	2262.6	96.05%
R_S44	2358.3	2214.0	93.88%
R_S45	2388.7	2262.6	94.72%
Average	2440.9	2325.6	95.27%

**Appendix 6 Accelerated Operational Life Test Data**

Sample No.	Initial Luminous Flux(lm)	After Temperature Cycling Test Luminous Flux(lm)	Lumen Maintenance
R_S46	2541.2	2381.8	93.73%
R_S47	2557.1	2410.8	94.28%
R_S48	2385.3	2294.7	96.20%
R_S49	2551.8	2404.8	94.24%
R_S50	2384.7	2300.5	96.47%
R_S51	2566.5	2428.9	94.64%
R_S52	2385.0	2286.3	95.86%
R_S53	2357.1	2216.7	94.04%
R_S54	2430.5	2265.3	93.20%
R_S55	2468.4	2311.4	93.64%
Average	2462.8	2330.1	94.61%

**Appendix 7 After 6000 hours life Test Data**

Sample No.	Voltage (V)	Current (A)	Power (W)	Displacement factor	Luminous flux(lm)	Color tolerance (SDCM)*	CCT	CRI
R_S6	230.00	0.139	17.11	0.74	2186.9	3.0	6469	81.1
R_S7	230.00	0.151	18.37	0.72	2072.2	2.5	6433	82.8
R_S7	230.00	0.149	18.36	0.73	2027.5	2.4	6510	81.6
R_S9	230.00	0.143	17.67	0.73	2096.4	2.2	6558	81.7
R_S10	230.00	0.143	17.09	0.73	2131.9	2.4	6404	82.7
R_S11	230.00	0.145	18.03	0.71	2067.7	2.7	6402	81.5
R_S12	230.00	0.145	17.62	0.72	2116.4	2.4	6586	81.4
R_S13	230.00	0.144	17.33	0.72	1974.6	2.5	6423	82.1
R_S14	230.00	0.154	18.69	0.71	2164.6	2.0	6583	82.3
R_S15	230.00	0.141	17.05	0.73	2249.3	2.4	6401	81.9
R_S16	230.00	0.153	18.54	0.73	1953.1	2.5	6466	82.9
R_S17	230.00	0.144	17.25	0.72	2133.7	2.8	6527	82.0
R_S18	230.00	0.150	18.42	0.72	2026.4	3.0	6567	82.6
R_S19	230.00	0.143	17.28	0.73	1974.8	2.2	6419	82.9
R_S20	230.00	0.147	18.01	0.72	2153.5	2.0	6463	82.2
R_S21	230.00	0.141	17.46	0.71	2171.1	2.3	6524	81.9
R_S22	230.00	0.151	18.58	0.72	2084.5	2.4	6424	81.7
R_S23	230.00	0.149	18.25	0.73	2092.4	2.9	6568	81.5
R_S24	230.00	0.146	18.02	0.71	2254.5	2.1	6533	82.8
R_S25	230.00	0.142	17.38	0.71	1958.2	2.8	6538	81.9
Average	230.00	0.146	17.83	0.72	2094.5	2.5	6490	82.1

*Note: Color tolerance is based on IEC 6500K..

**Appendix 8 After 6000 hours Lumen Maintenance Data**

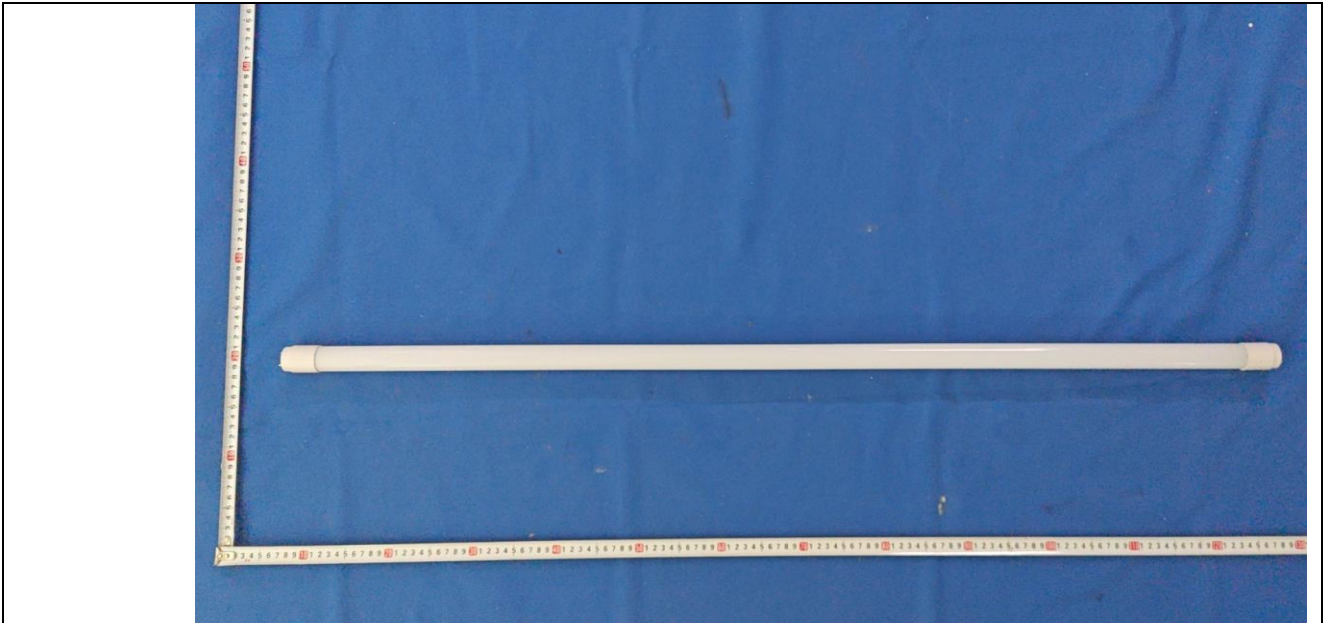
Sample No.	Initial Luminous Flux(lm)	After 6000 hours Life Test Luminous Flux(lm)	Lumen Maintenance
R_S6	2459.8	2186.9	88.91%
R_S7	2443.5	2072.2	84.81%
R_S7	2481.6	2027.5	81.70%
R_S9	2589.1	2096.4	80.97%
R_S10	2584.5	2131.9	82.49%
R_S11	2457.9	2067.7	84.13%
R_S12	2355.0	2116.4	89.87%
R_S13	2390.8	1974.6	82.59%
R_S14	2527.1	2164.6	85.66%
R_S15	2574.1	2249.3	87.39%
R_S16	2436.4	1953.1	80.17%
R_S17	2447.6	2133.7	87.18%
R_S18	2367.6	2026.4	85.59%
R_S19	2380.5	1974.8	82.96%
R_S20	2398.1	2153.5	89.80%
R_S21	2430.7	2171.1	89.32%
R_S22	2559.7	2084.5	81.44%
R_S23	2382.2	2092.4	87.84%
R_S24	2569.1	2254.5	87.76%
R_S25	2407.1	1958.2	81.35%
Average	2462.1	2094.5	85.07%

**Note: Color tolerance is based on IEC 6500K.*

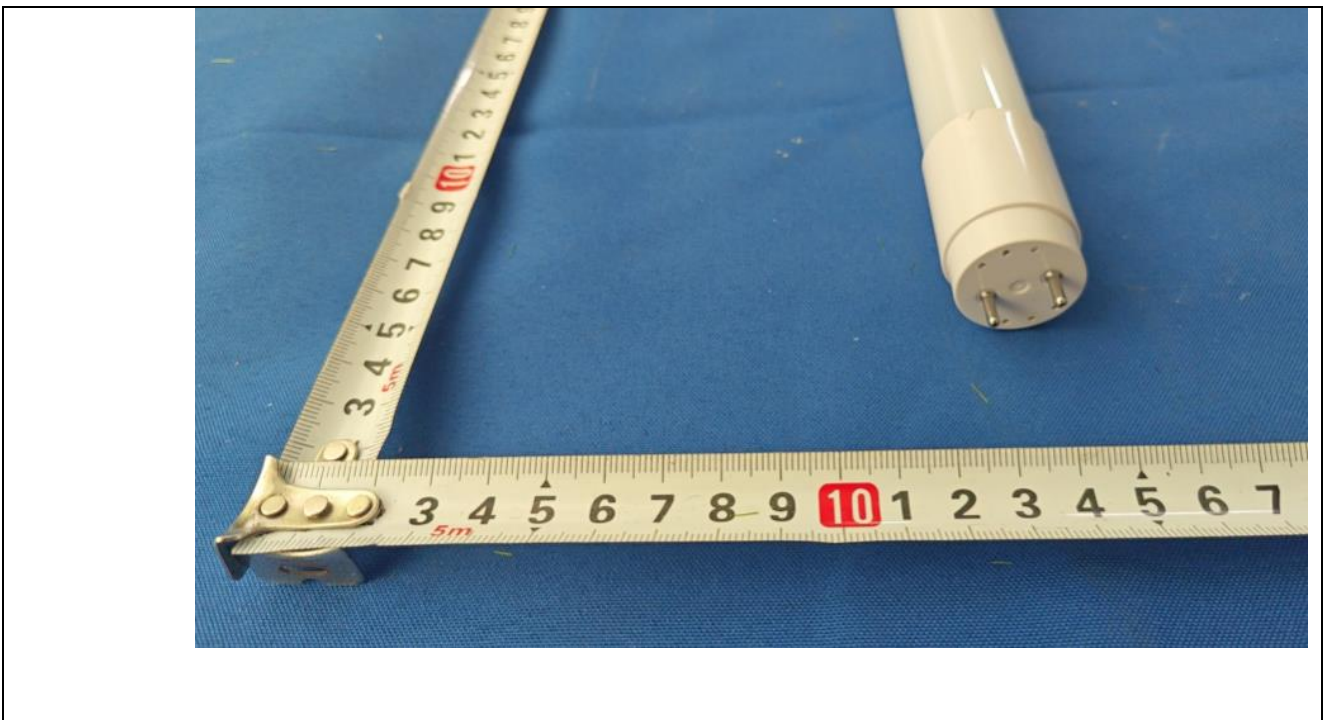


Appendix 9 Photo of test sample

Details of: Overview for model UC-T8-1.2M-20W-130

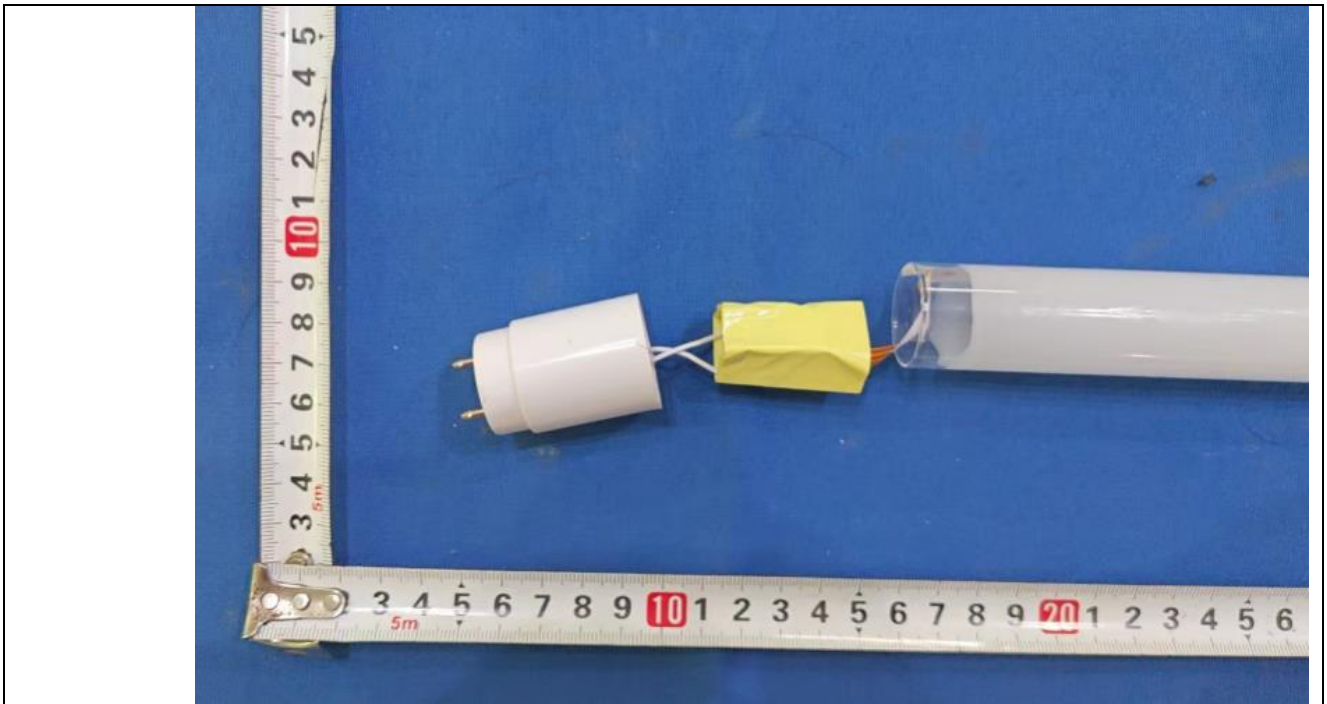


Details of: Overview for model UC-T8-1.2M-20W-130

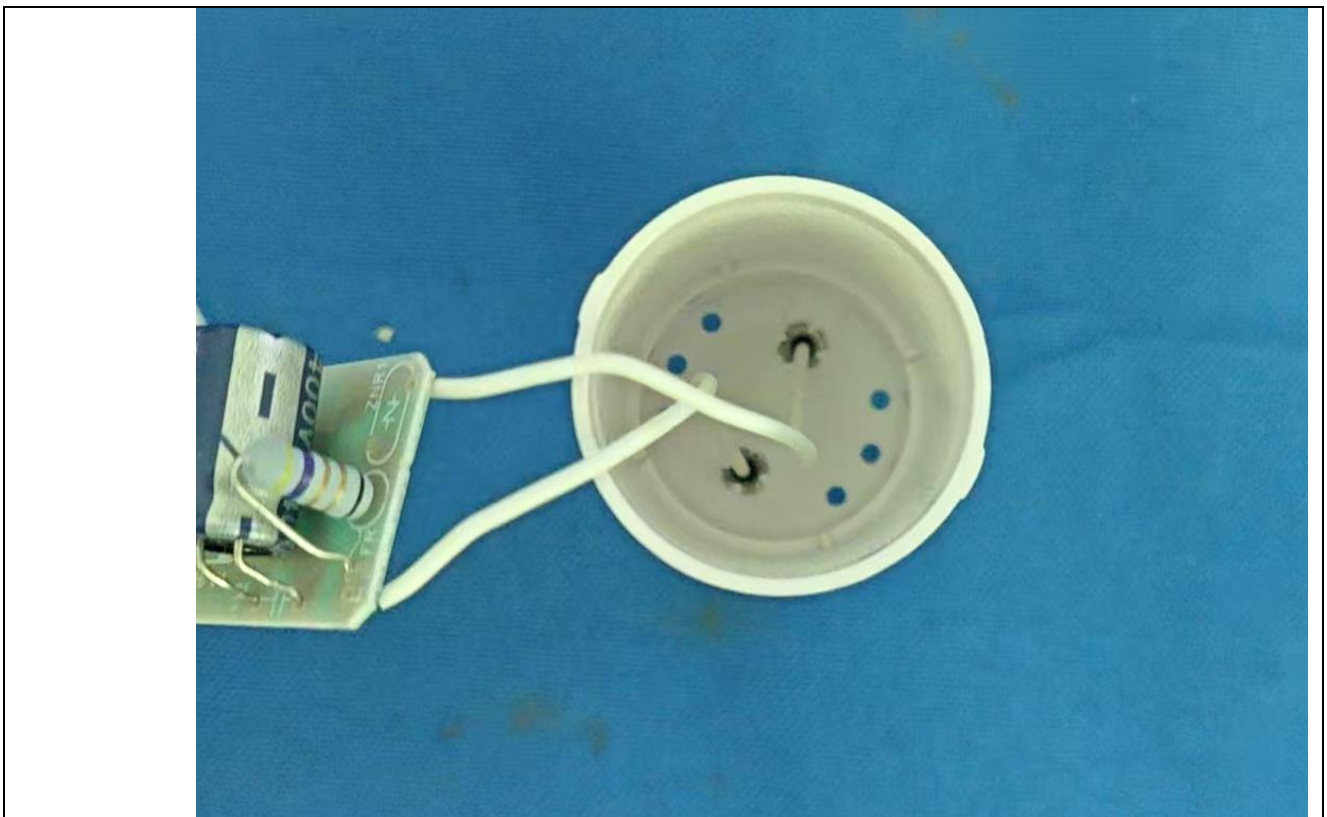




Details of: Overview for model UC-T8-1.2M-20W-130

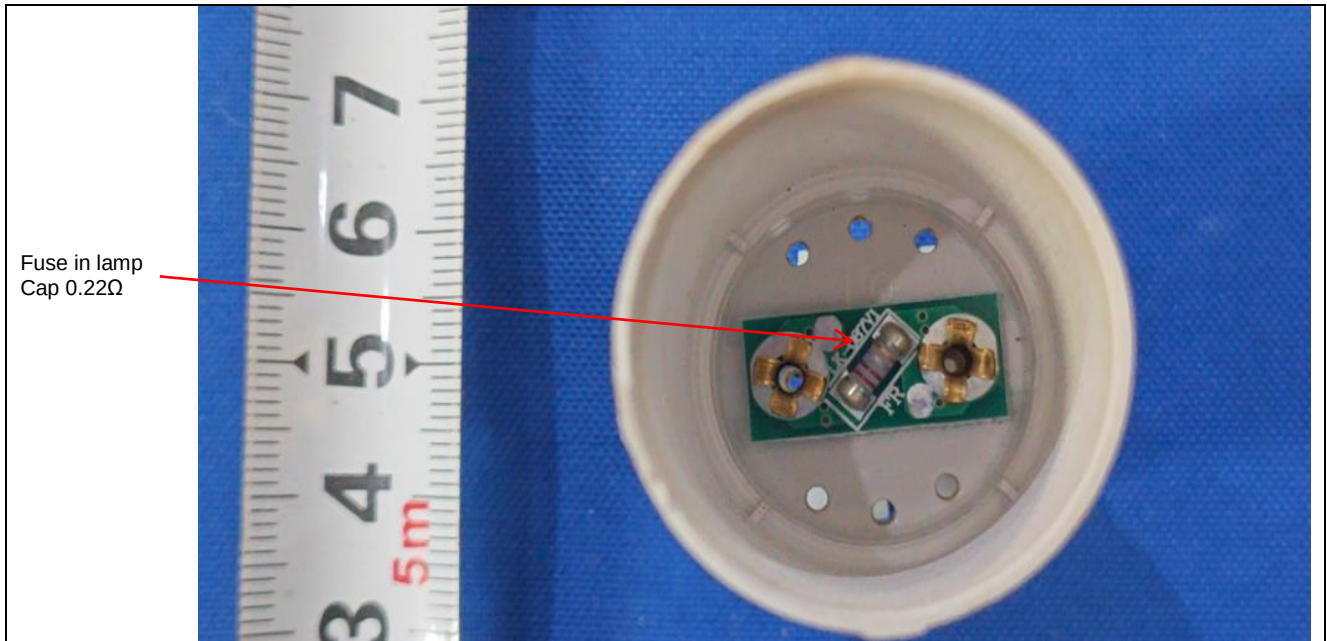


Details of: Overview for model UC-T8-1.2M-20W-130

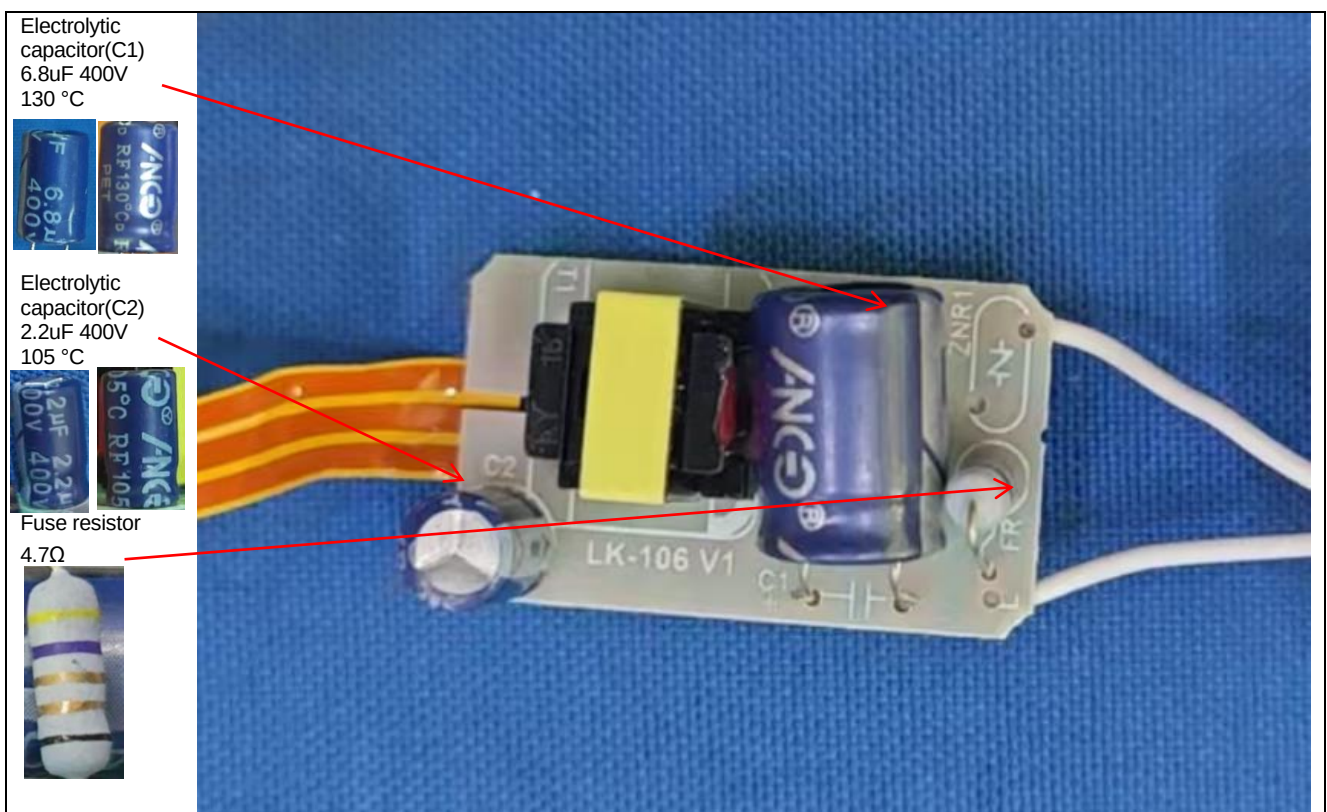




Details of: Overview for model UC-T8-1.2M-20W-130

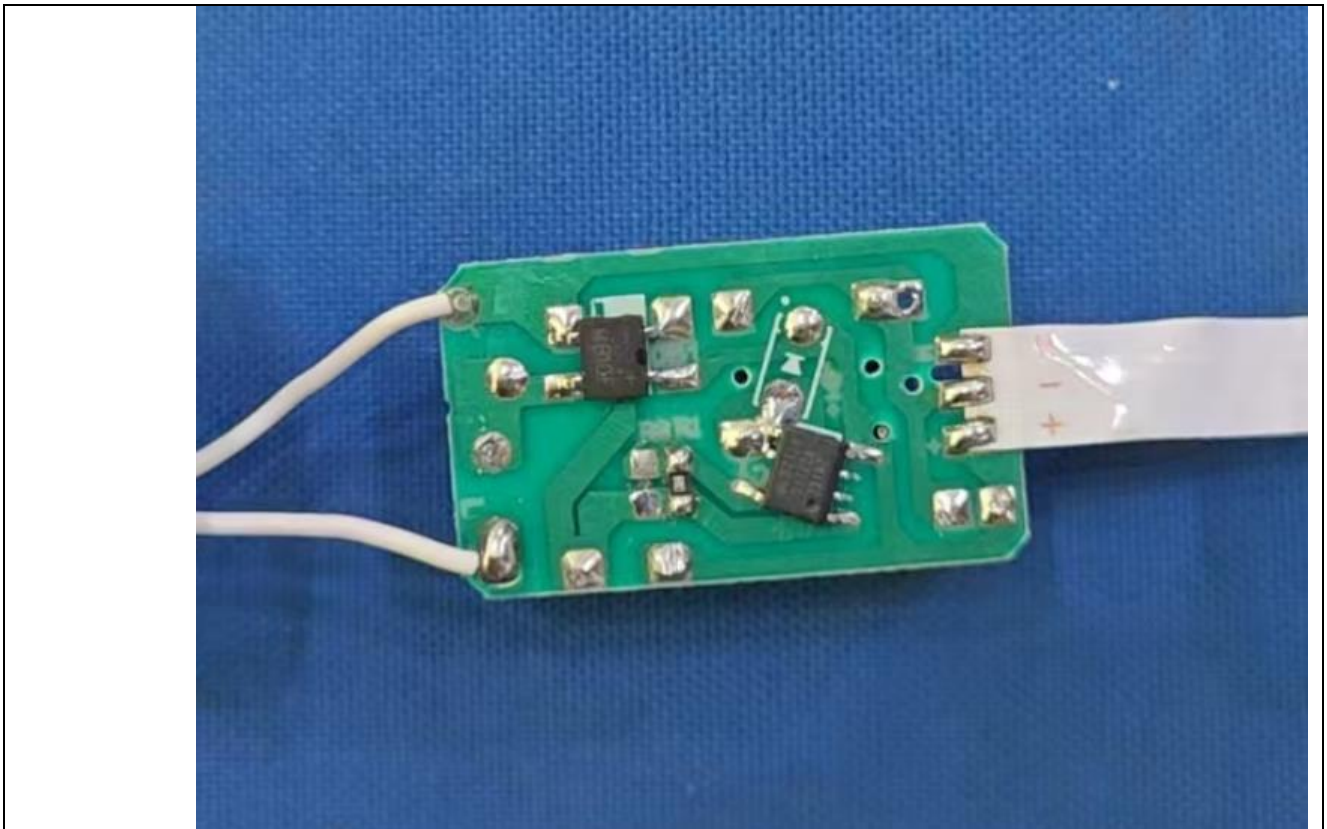


Details of: Overview for model UC-T8-1.2M-20W-130





Details of: Overview for model UC-T8-1.2M-20W-130



Details of: Overview for model UC-T8-1.2M-20W-130



----End of test report----