



TEST REPORT IEC 62612:2018 Self-ballasted LÜED-lamps for general lighting services with supply voltages >50 V - Performance requirements	
Report Reference No.:	AOC251013007ER
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
Non-standard test method.....:	Self-ballasted LED-lamps for general lighting services with supply voltages >50 V - Performance requirements
	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-32W-130
Ratings.....:	220-240V~, 50/60Hz, 0.240A, 32W

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

Trade Mark: Kaisuki,TZL,YOUCai,SL,TEWC,YAZAKI,Afg
Model/Type reference: UC-T8-1.2M-32W-130
Ratings electrical paremeters.....: 220-240V ~ , 50/60Hz, 0.240A, 32W
Rated displacement factor: 0.9
Lamp shape.....: T8
Lamp base.....: G13
Dimmable or not.....: Not
Rated luminous flux.....: 4160lm
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. 16.2025
Date (s) of performance of tests.....: Jan. 16.2025 to Oct. 13.2025
Sample Code of report.....:

Model	Numbers	Sample Code of lab.	Sample Code of report
UC-T8-1.2M-32W-130	55	250110015050-01 250110015050-55	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-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE TZL Model: UC-T8-1.2M-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE YOUcai Model: UC-T8-1.2M-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C
T8 GLASS TUBE SL Model: UC-T8-1.2M-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE TEWC Model: UC-T8-1.2M-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C	T8 GLASS TUBE YAZAKI Model: UC-T8-1.2M-32W-130 Rating: 220-240V~, 50/60Hz, 0.240A, 32W Rated luminous flux (lm):4160lm Rated life: 20000h CCT: 6500K Rated efficacy: 130lm/W Dimensions: Ø26×H1200mm Displacement factor: 0.9 Manufacturer: Jiangmen Youcai Lighting Appliance Co., Ltd Made In China ta: -20 to 45°C



T8 GLASS TUBE	Afg
Model: UC-T8-1.2M-32W-130	
Rating: 220-240V~, 50/60Hz, 0.240A, 32W	
Rated luminous flux (lm): 4160lm	
Rated life: 20000h	
CCT: 6500K	
Rated efficacy: 130lm/W	
Dimensions: Ø26×H1200mm	
Displacement factor: 0.9	
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 V3.1					
Fuse resistor	XIAMEN KOMING ELECTRONICS CO LTD	RXF-1/2W	1.0Ω	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	10.0uF	10.0uF 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	4160lm	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	0.9	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: 32 W; Measured: 30.73W; Deviation: -3.97%	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: 0.9	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: 4160 lm; Luminous flux: 4005.9 lm; Deviation: -3.70%	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: 130.36 lm/W; Deviation: +0.28%	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	0.241	29.60	0.534	4074.3	137.6
R_S2	230.00	50	0.245	30.82	0.547	4029.7	130.7
R_S3	230.00	60	0.243	30.46	0.545	3982.1	130.7
R_S4	230.00	60	0.242	30.06	0.540	4079.3	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**

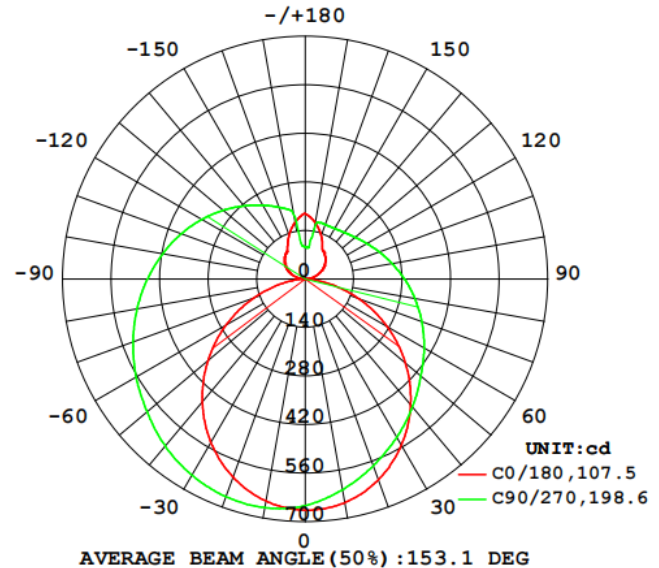
Sample code: R_S5

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	0.245	30.328	0.538	3882.0	678.1	153.1	128.00	43.80%

Light Distribution Curve. Zonal lumen summary

γ	Φ zone	Φ total	%lum, lamp
0- 10	66.48	66.48	1.71, 1.71
10- 20	190.8	257.2	6.63, 6.63
20- 30	292.1	549.4	14.2, 14.2
30- 40	361.4	910.8	23.5, 23.5
40- 50	394.7	1305	33.6, 33.6
50- 60	394.4	1700	43.8, 43.8
60- 70	368.6	2068	53.3, 53.3
70- 80	326.8	2396	61.7, 61.7
80- 90	282.7	2678	69, 69
90-100	249.5	2928	75.4, 75.4
100-110	220.7	3148	81.1, 81.1
110-120	187.0	3335	85.9, 85.9
120-130	163.9	3499	90.1, 90.1
130-140	136.0	3635	93.6, 93.6
140-150	106.8	3742	96.4, 96.4
150-160	76.23	3819	98.4, 98.4
160-170	47.52	3866	99.6, 99.6
170-180	16.37	3882	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	0.248	30.97	0.91	4029.8	2.5	6597	83.4
R_S7	230.00	0.250	30.82	0.93	4010.9	2.1	6569	83.5
R_S7	230.00	0.242	29.61	0.92	3922.4	2.6	6621	83.2
R_S9	230.00	0.248	31.37	0.91	3966.3	2.9	6572	83.5
R_S10	230.00	0.249	31.04	0.91	4000.5	2.5	6514	83.8
R_S11	230.00	0.249	30.93	0.91	4006.2	2.1	6573	83.1
R_S12	230.00	0.250	30.99	0.92	4055.3	2.6	6501	83.6
R_S13	230.00	0.244	30.64	0.93	4010.0	2.5	6559	83.7
R_S14	230.00	0.249	30.58	0.92	4033.9	2.5	6589	83.2
R_S15	230.00	0.246	30.16	0.92	3965.7	2.1	6626	83.6
R_S16	230.00	0.247	30.56	0.91	4058.0	2.8	6667	83.7
R_S17	230.00	0.249	30.98	0.92	4037.5	2.2	6691	83.3
R_S18	230.00	0.248	30.74	0.93	4001.2	2.0	6647	83.9
R_S19	230.00	0.244	30.75	0.91	4040.3	3.0	6521	83.1
R_S20	230.00	0.246	30.78	0.91	4010.3	2.3	6616	83.4
R_S21	230.00	0.243	30.63	0.91	3962.4	2.7	6684	83.5
R_S22	230.00	0.247	30.45	0.91	4036.3	2.7	6537	83.4
R_S23	230.00	0.247	30.11	0.93	4027.4	2.2	6675	83.7
R_S24	230.00	0.249	31.10	0.91	3913.4	2.8	6694	83.6
R_S25	230.00	0.248	31.37	0.91	4029.5	2.0	6559	83.4
Average	230.00	0.247	30.73	0.92	4005.9	2.5	6601	83.5

*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	3942.1	3724.1	94.47%
R_S27	3911.2	3700.3	94.61%
R_S28	3969.5	3773.0	95.05%
R_S29	4020.2	3779.4	94.01%
R_S30	3945.7	3741.7	94.83%
R_S31	3963.4	3794.1	95.73%
R_S32	3923.0	3733.1	95.16%
R_S33	3993.4	3850.4	96.42%
R_S34	3903.4	3687.9	94.48%
R_S35	3964.3	3701.9	93.38%
Average	3953.6	3748.6	94.81%

**Appendix 5 Supply Switching Test Data**

Sample No.	Initial Luminous Flux(lm)	After Temperature Cycling Test Luminous Flux(lm)	Lumen Maintenance
R_S36	4094.0	3936.8	96.16%
R_S37	4072.9	3905.9	95.90%
R_S38	3937.6	3802.5	96.57%
R_S39	4078.3	3888.3	95.34%
R_S40	4079.8	3919.9	96.08%
R_S41	3939.5	3687.8	93.61%
R_S42	4025.1	3858.4	95.86%
R_S43	3934.8	3776.7	95.98%
R_S44	4090.1	3889.3	95.09%
R_S45	4029.9	3888.8	96.50%
Average	4028.2	3855.4	95.71%

**Appendix 6 Accelerated Operational Life Test Data**

Sample No.	Initial Luminous Flux(lm)	After Temperature Cycling Test Luminous Flux(lm)	Lumen Maintenance
R_S46	4054.9	3910.1	96.43%
R_S47	4044.7	3825.5	94.58%
R_S48	3921.5	3670.5	93.60%
R_S49	4060.5	3859.5	95.05%
R_S50	4042.7	3912.5	96.78%
R_S51	3990.6	3756.8	94.14%
R_S52	4054.8	3814.4	94.07%
R_S53	4043.3	3807.6	94.17%
R_S54	3950.4	3798.3	96.15%
R_S55	3969.0	3754.7	94.60%
Average	4013.2	3811.0	94.96%

**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	0.234	28.19	0.92	3475.3	3.8	6775	83.3
R_S7	230.00	0.231	28.40	0.91	3260.3	3.0	6695	82.9
R_S7	230.00	0.241	29.41	0.93	3459.4	3.8	6772	82.6
R_S9	230.00	0.241	29.77	0.91	3199.8	3.1	6687	83.8
R_S10	230.00	0.239	29.30	0.91	3387.2	3.3	6611	82.8
R_S11	230.00	0.239	28.59	0.91	3327.7	3.2	6718	82.2
R_S12	230.00	0.244	30.16	0.92	3435.9	4.0	6645	82.3
R_S13	230.00	0.231	28.05	0.93	3600.1	3.4	6675	82.9
R_S14	230.00	0.243	29.54	0.92	3410.7	3.5	6649	82.3
R_S15	230.00	0.228	27.63	0.92	3496.1	3.6	6764	83.2
R_S16	230.00	0.247	29.71	0.92	3307.3	3.9	6703	83.7
R_S17	230.00	0.238	28.66	0.91	3496.5	3.2	6687	82.9
R_S18	230.00	0.226	27.77	0.92	3488.0	3.7	6725	82.4
R_S19	230.00	0.240	29.41	0.91	3336.3	3.0	6644	82.4
R_S20	230.00	0.242	29.26	0.93	3323.7	3.2	6684	82.1
R_S21	230.00	0.220	27.21	0.92	3242.9	3.0	6628	82.9
R_S22	230.00	0.232	28.62	0.92	3417.3	3.6	6662	83.4
R_S23	230.00	0.235	28.28	0.91	3518.4	3.1	6706	82.8
R_S24	230.00	0.233	28.22	0.93	3275.5	4.0	6800	82.6
R_S25	230.00	0.228	27.45	0.92	3360.6	3.6	6750	82.6
Average	230.00	0.236	28.68	0.92	3390.9	3.5	6699	82.8

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

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

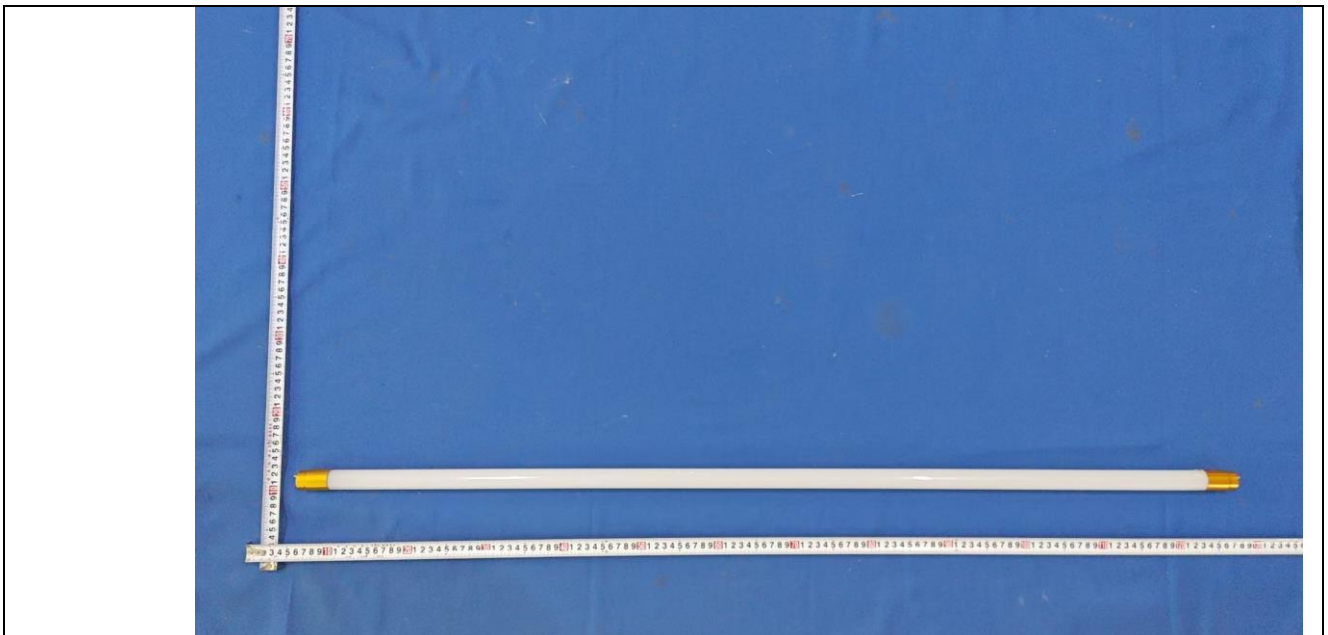
Sample No.	Initial Luminous Flux(lm)	After 6000 hours Life Test Luminous Flux(lm)	Lumen Maintenance
R_S6	4029.8	3475.3	86.24%
R_S7	4010.9	3260.3	81.29%
R_S7	3922.4	3459.4	88.20%
R_S9	3966.3	3199.8	80.68%
R_S10	4000.5	3387.2	84.67%
R_S11	4006.2	3327.7	83.07%
R_S12	4055.3	3435.9	84.73%
R_S13	4010.0	3600.1	89.78%
R_S14	4033.9	3410.7	84.55%
R_S15	3965.7	3496.1	88.16%
R_S16	4058.0	3307.3	81.50%
R_S17	4037.5	3496.5	86.60%
R_S18	4001.2	3488.0	87.18%
R_S19	4040.3	3336.3	82.58%
R_S20	4010.3	3323.7	82.88%
R_S21	3962.4	3242.9	81.84%
R_S22	4036.3	3417.3	84.67%
R_S23	4027.4	3518.4	87.36%
R_S24	3913.4	3275.5	83.70%
R_S25	4029.5	3360.6	83.40%
Average	4005.9	3390.9	84.65%

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

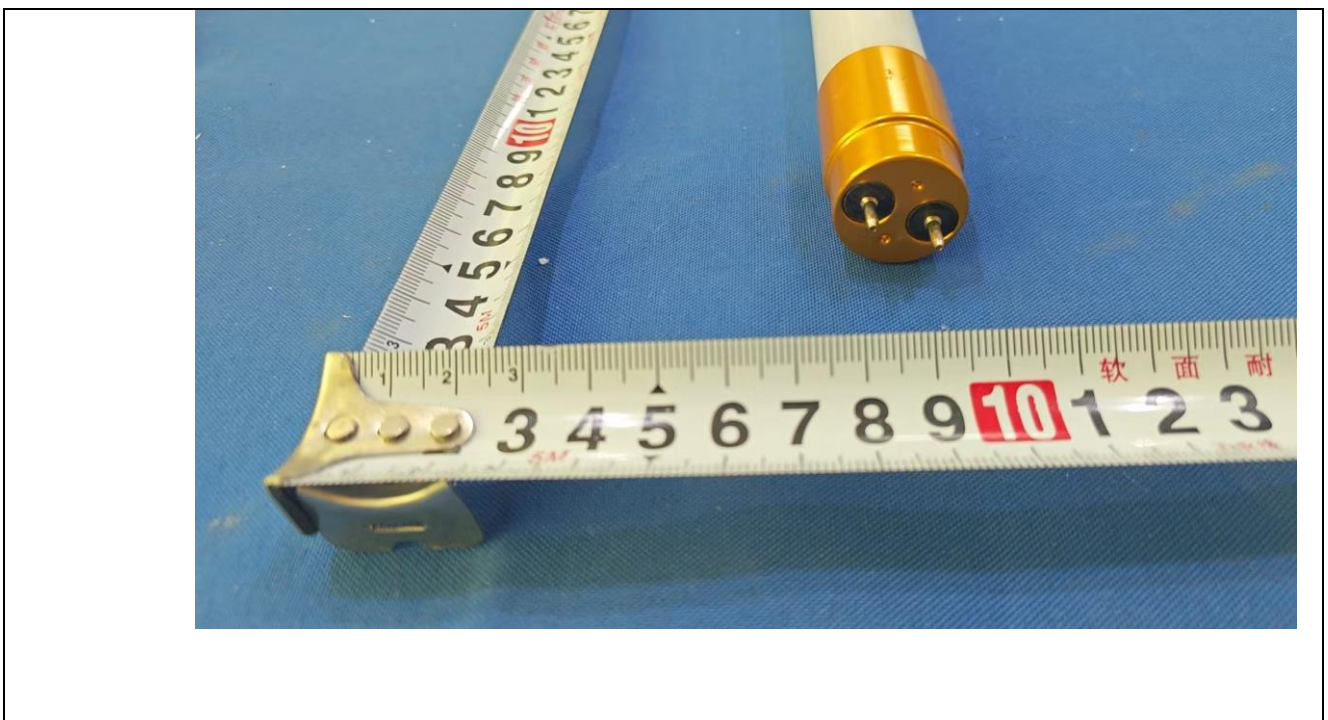


Appendix 9 Photo of test sample

Details of: Overview for model UC-T8-1.2M-32W-130

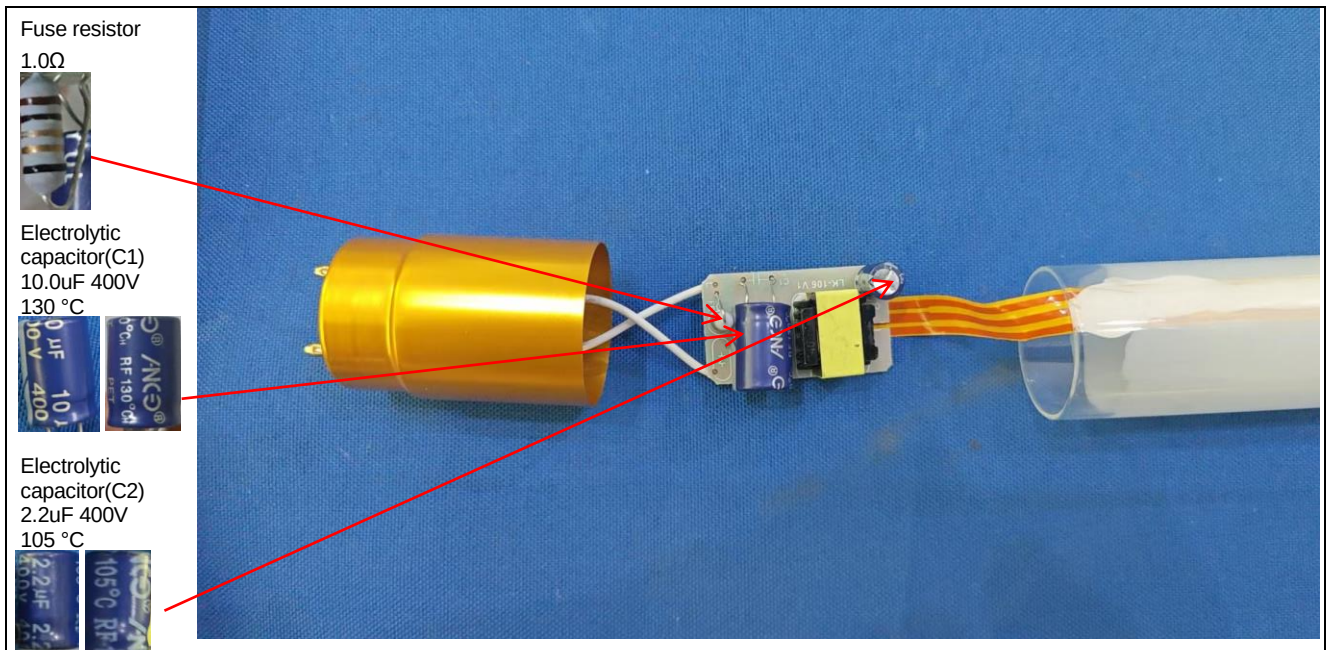


Details of: Overview for model UC-T8-1.2M-32W-130

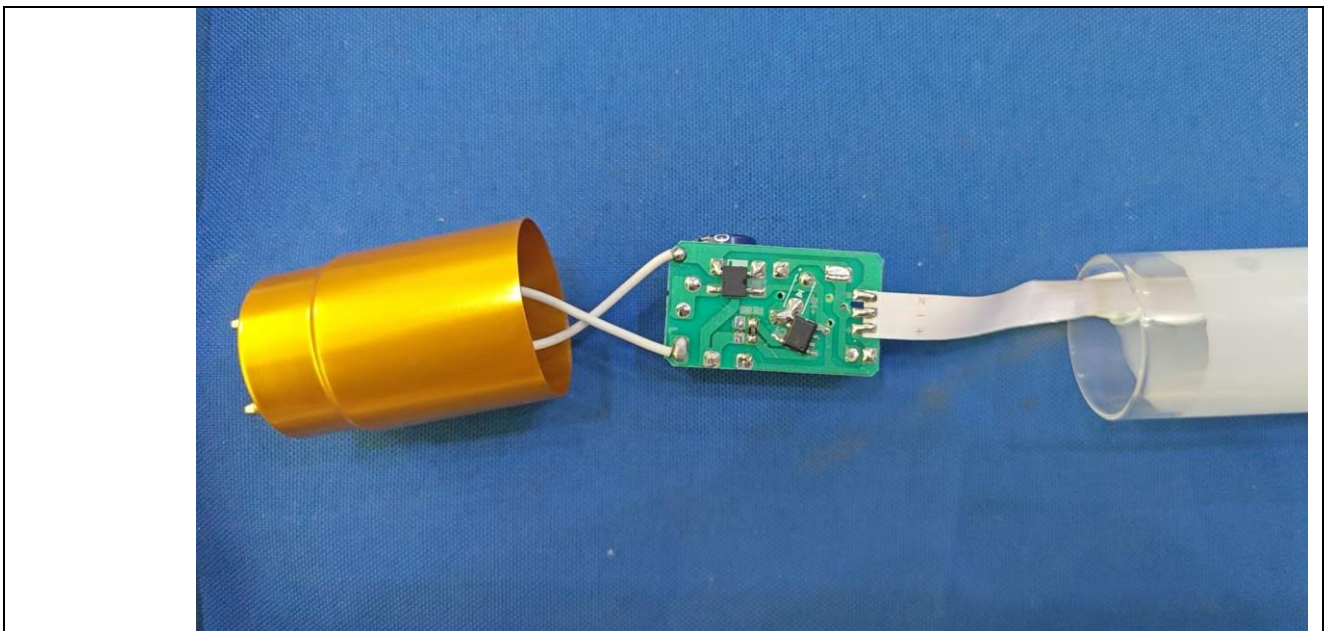




Details of: Overview for model UC-T8-1.2M-32W-130



Details of: Overview for model UC-T8-1.2M-32W-130

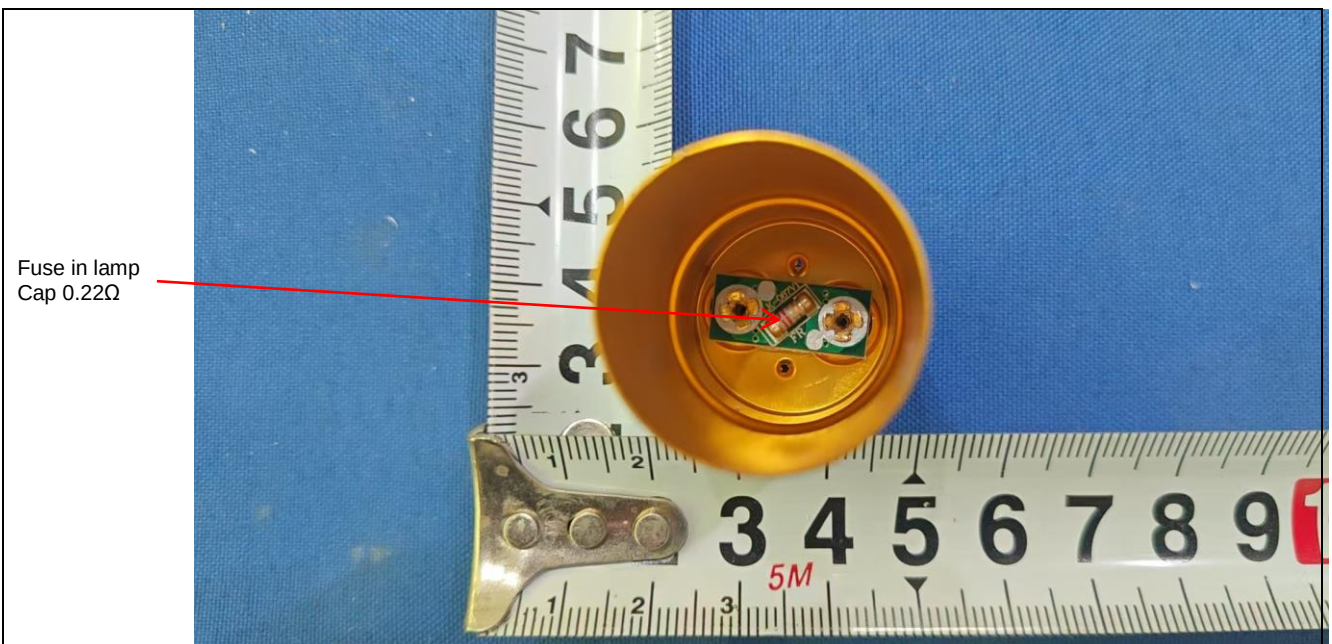




Details of: Overview for model UC-T8-1.2M-32W-130



Details of: Overview for model UC-T8-1.2M-32W-130





Details of: Overview for model UC-T8-1.2M-32W-130



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