

Global United Technology Services Co., Ltd.

Report No.: GTS202206000133F01

TEST REPORT

Applicant: ARTIKA FOR LIVING INC

Address of Applicant: 1756 50th avenue, Lachine, Quebec, Canada H8T 2V5

Manufacturer/Factory: ZHONGSHAN WEIHUA LIGHTING TECHNOLGY CO.,LTD.

Address of No.13 YOUNG YI 2RD HENGLAN TOWN ZHONGSHAN CITY

Manufacturer/Factory: GUANGDONG PROVINCE CHINA

Equipment Under Test (EUT)

Product Name: OUTDOOR WALL LIGHT

Model No.: OUT-NEC-BLJ(OUT-NEC-xxx, "xxx" denote finish color or

customer, can be A to Z and/or 0 to 9 and/or Blank (commercial

code))

Trade Mark: Artika

FCC ID: 2AUHG-OUT-NEC

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: June 15, 2022

Date of Test: June 15- 20, 2022

Date of report issued: June 21, 2022

Test Result: Pass *

Authorized Signature:

Robinson Luo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	June 21, 2022	Original
Gr.	6De	8 -
43	Dx.	GT0 418
0	70 48	Ca GDa
13	Gn 63) X X X X X X X X X X X X X X X X X X X

Prepared by:	Lang Date:	June 21, 2022
	Project Engineer	Gre Ts
Reviewed by:	Date:	June 21, 2022
	Reviewer	978



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4 Test Summary

Test Item	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC Part15.107	ANSI C63.4	Class B	PASS
Radiated Emissions #	FCC Part15.109	ANSI C63.4	Class B	PASS

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. # Refer to FCC Part 15.33 (b)(1) conditional testing procedure :

Highest frequency generated or used in the device of on which the device operates or tunes (MHz)	or Upper frequency of measurement range (MHz)		
Below 1.705	30		
1.705-108	1000		
108-500	2000		
500-1000	5000		
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.		

Measurement Uncertainty

/.l. 13:/h						
Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	30MHz-200MHz	3.8039dB	(1)			
Radiated Emission	200MHz-1GHz 3.9679dB		(1)			
Radiated Emission	1GHz-18GHz 4.29dB		(1)			
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)			
Note (1): The measurement unce	rtainty is for coverage factor of k=2	and a level of confidence of 95%	, o.			



5 General Information

5.1 General Description of EUT

Product Name:	OUTDOOR WALL LIGHT
Model No.:	OUT-NEC-BLJ(OUT-NEC-xxx, "xxx" denote finish color or customer, can be A to Z and/or 0 to 9 and/or Blank (commercial code))
Test Model No.:	OUT-NEC-BLJ
Power supply:	LED Driver
470 C	Model: BQE15K-0280-42-TD-S2
0	Input: 120Vac, 60Hz, 12W

5.2 Test mode and Test voltage

Test mode:	Gr GTO "IS	- 7
Operation mode	Keep the EUT in the operation status.	
Test voltage:	Garage	
AC 120V/60Hz	Gr.	470

5.3 Description of Support Units

None

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC —Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

Tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	liated Emission:		7	- N	120	470
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022



Con	ducted Emission	Gn	Q.	Po	- 0	
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.14 2022	May.13 2025
2	EMI Test Receiver	R&S	ESCI7	GTS552	June. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 24 2021	June. 23 2022
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	June. 24 2021	June. 23 2022
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	July. 09 2021	July. 08 2022

Gen	General used equipment:					670
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022



7 Test Results and Measurement Data

7.1 Radiated Emission

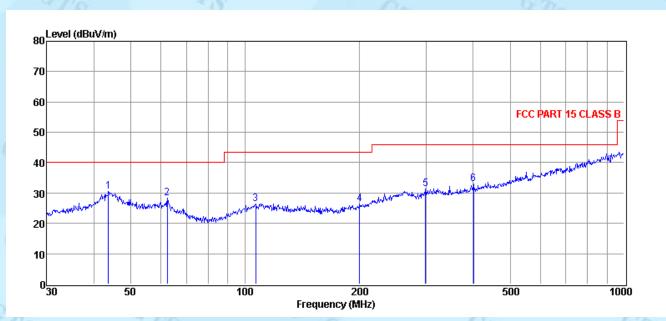
7.1 Radiated Ellission					
Test Requirement:	FCC Part15 B Section	15.109	Po.	4	18
Test Method:	ANSI C63.4:2014		Pa		GDA
Test Frequency Range:	30MHz to 1GHz	ma	4.4	8	-0
Test site:	Measurement Distance	e: 3m (Sem	i-Anechoic Ch	namber)	76
Receiver setup:	Ga	9	Po		У
		Detector	RBW	VBW	Value
	30MHz-1GHz C	uasi-peak	120kHz	300kHz	Quasi-peak
Limit:	5	000		6/20	
	Frequency	,	μV/m @3m)		Value
	30MHz-88MHz 88MHz-216MHz		0.00 3.50		lasi-peak lasi-peak
	216MHz-960MHz		6.00		iasi-peak iasi-peak
	960MHz-1GHz		4.00		iasi-peak
	Test Receiv		Antenna Tower Controlles		GTS (
Test Procedure:	 The EUT was plathe ground at a 3 rotated 360 degree The EUT was set antenna, which was tower. The antenna heig ground to determ horizontal and vermeasurement. For each suspect case and then the meters and the rodegrees to find the 	meter semi ees to detern 3 meters avas mounted ht is varied fine the maxintical polarizated emissione antenna wotatable table	-anechoic chamine the positivay from the top of from one metalimum value of ations of the attack tuned to he was turned reading.	amber. The tion of the h interference a variable-fer to four ment of the field stantenna are as arranged eights from 0 degr	table was ighest radiation receiving neight antenna eters above the rength. Both set to make the to its worst 1 meter to 4 ees to 360
	5. The test-receiver Specified Bandwi 6. If the emission le	dth with Max	ximum Hold N	Node.	



W 75	7 / / / / / / / / / / / / / / / / / / /						
	limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not ha 10dB margin would be re-tested one by one using peak, quasi-peak average method as specified and then reported in a data sheet.						
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar						
Test Instruments:	Refer to section 6 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

Measurement Data

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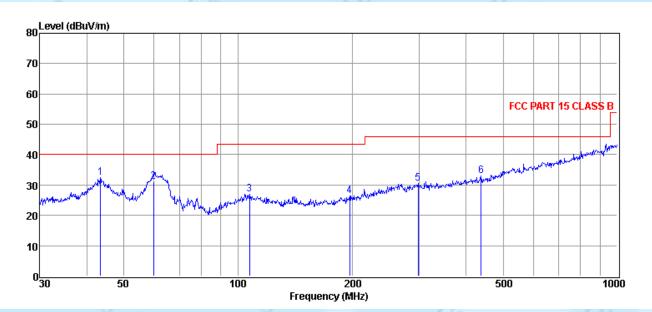


Quasi-peak measurement:

Item	Freq	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/ m)	(dBµV/m)	(dB)	71	8
(1)	43.66	13.27	16.68	0.00	0.67	30.62	40.00	-9.38	Peak	HORIZONTAL
2	62.43	15.92	11.76	0.00	0.65	28.33	40.00	-11.67	Peak	HORIZONTAL
3	106.76	12.91	12.69	0.00	0.93	26.53	43.50	-16.97	Peak	HORIZONTAL
4	200.69	13.00	11.91	0.00	1.51	26.42	43.50	-17.08	Peak	HORIZONTAL
5	299.32	14.49	14.79	0.00	2.09	31.37	46.00	-14.63	Peak	HORIZONTAL
6	400.43	13.59	16.59	0.00	2.80	32.98	46.00	-13.02	Peak	HORIZONTAL



Test mode: Operation mode Antenna Pola	rity: Vertical
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Quasi-peak measurement:

Quasi peak incasarement.						F 12 7 2			A BIN		
	ltem	Freq	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/ m)	(dBµV/m)	(dB)	18	0-
10	1	43.35	15.40	16.49	0.00	0.66	32.55	40.00	-7.45	Peak	VERTICAL
	2	59.86	17.86	12.67	0.00	0.63	31.16	40.00	-8.84	QP	VERTICAL
	3	107.13	13.30	12.67	0.00	0.95	26.92	43.50	-16.58	Peak	VERTICAL
	4	197.20	13.26	11.68	0.00	1.53	26.47	43.50	-17.03	Peak	VERTICAL
	5	298.27	13.67	14.77	0.00	2.09	30.53	46.00	-15.47	Peak	VERTICAL
	6	437.12	13.02	16.67	0.00	3.22	32.91	46.00	-13.09	Peak	VERTICAL

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



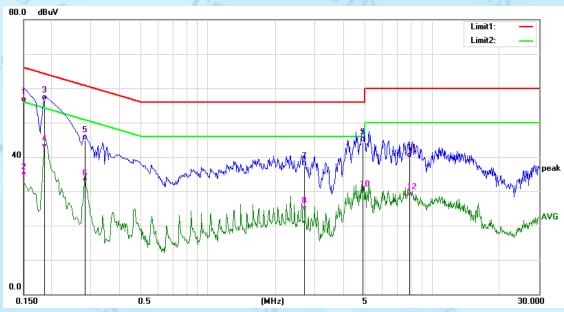
7.2 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107
Test Method:	ANSI C63.4:2014
Test Frequency Range:	150kHz to 30MHz
Class / Severity:	Class B
Receiver setup:	RBW=9kHz, VBW=30kHz
Limit:	Limit (dBµV)
-	Frequency range (MHz) Quasi-peak Average
	0.15-0.5 66 to 56* 56 to 46*
	0.5-5 56 46
	5-30 60 50
Toot ootup:	* Decreases with the logarithm of the frequency.
Test setup:	Reference Plane
	AUX Equipment Test table/Insulation plane Remark: E.U.T. Equipment Under Test
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through
	 a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass
37/1	0 0 00

Measurement Data



Test mode: Charge mode Phase Polarity: Line

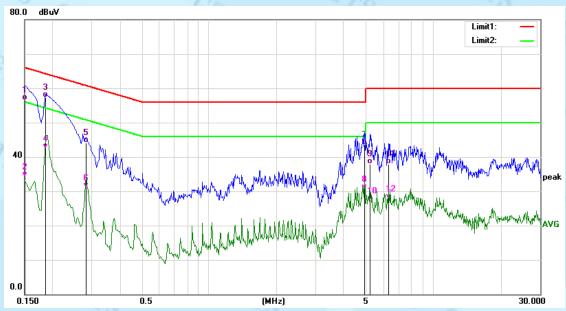


Quasi-peak and Average measurement:

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	46.16	9.73	55.89	66.00	-10.11	QP
2	0.1500	24.29	9.73	34.02	56.00	-21.98	AVG
3	0.1860	46.84	9.76	56.60	64.21	-7.61	QP
4	0.1860	32.61	9.76	42.37	54.21	-11.84	AVG
5	0.2820	34.93	9.88	44.81	60.76	-15.95	QP
6	0.2820	22.37	9.88	32.25	50.76	-18.51	AVG
7	2.7060	27.16	10.20	37.36	56.00	-18.64	QP
8	2.7060	14.02	10.20	24.22	46.00	-21.78	AVG
9	4.9220	33.72	10.50	44.22	56.00	-11.78	QP
10	4.9220	18.66	10.50	29.16	46.00	-16.84	AVG
11	7.8940	29.27	10.49	39.76	60.00	-20.24	QP
12	7.8940	17.87	10.49	28.36	50.00	-21.64	AVG



Test mode: Charge mode Phase Polarity: Neutral



Quasi-peak and Average measurement:

1.36 (3.6)		7 1 1 1		7.8.8.		7.7.3	
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	46.79	9.73	56.52	66.00	-9.48	QP
2	0.1500	24.45	9.73	34.18	56.00	-21.82	AVG
3	0.1860	47.48	9.76	57.24	64.21	-6.97	QP
4	0.1860	32.62	9.76	42.38	54.21	-11.83	AVG
5	0.2820	34.17	9.88	44.05	60.76	-16.71	QP
6	0.2820	20.99	9.88	30.87	50.76	-19.89	AVG
7	4.9420	32.97	10.50	43.47	56.00	-12.53	QP
8	4.9420	20.06	10.50	30.56	46.00	-15.44	AVG
9	5.2460	27.42	10.50	37.92	60.00	-22.08	QP
10	5.2460	16.55	10.50	27.05	50.00	-22.95	AVG
11	6.3420	27.35	10.50	37.85	60.00	-22.15	QP
12	6.3420	17.13	10.50	27.63	50.00	-22.37	AVG

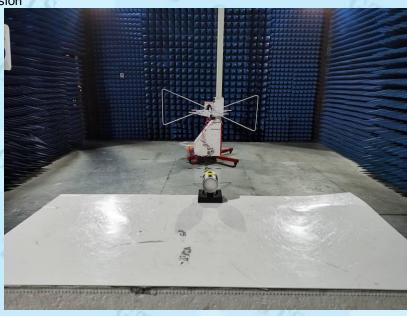
Notes

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



8 Test Setup Photo

Radiated Emission



GTS GTS

Conducted Emission





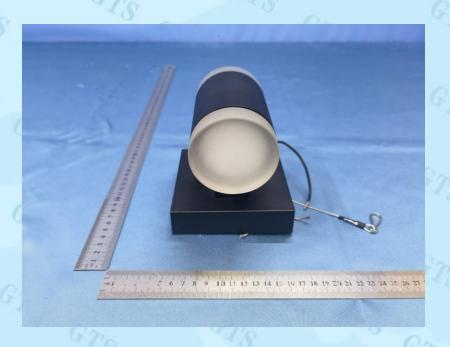
9 EUT Constructional Details



GTS GTS

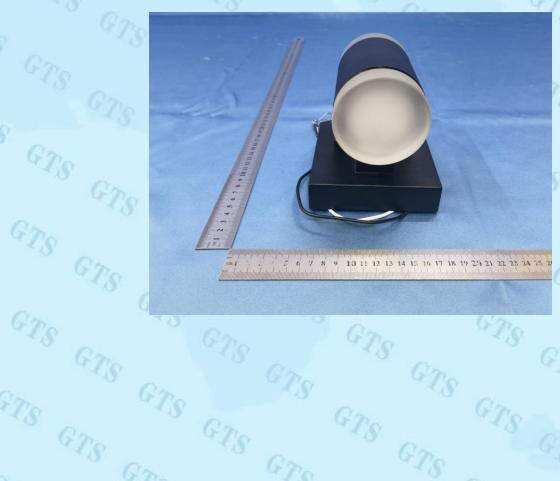




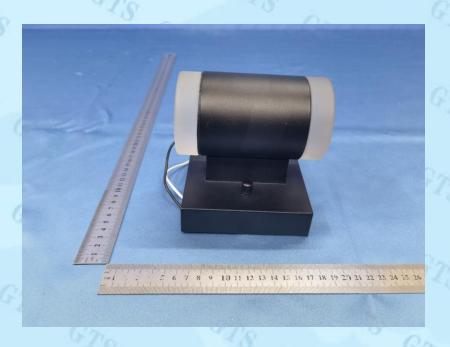


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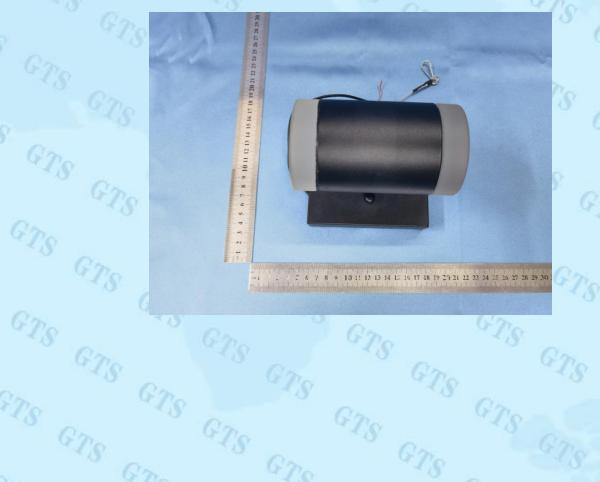






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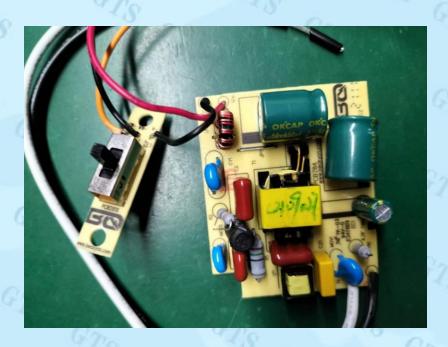




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