



PASS

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	TEST REPORT		
Product	: LED Power Failure Light		
Trade mark	: Sunbeam		
Model/Type reference	: 30310478		
Serial number	: N/A 🕥		
Ratings	: AC 120V, 60Hz/1.8W		
FCC ID	: X5I30310478		
Report number	: EED32H000558		
Date	: Jun. 15, 2015		
Regulations	: See below		
Test Standards		Results	

Prepared for:

47 CFR FCC Part 15 Subpart C: 2014

L'Image Home Products Inc. 1175 Place du Frere Andre, Montreal, QC, H3B 3X9, Canada

Prepared by: **Centre Testing International** Building C, Hongwei Industrial Zone, Baoan 70 Dist. Shenzhen, China, 518101 TEL: +86-755-3368 3919 FAX: +86-755-3368 3385 ΧM Tested by: Reviewed by: Date: Approved by: Jun. 15, 2015 Sheek Luo Lab supervisor Check No.: 1022546083

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1. GENERAL INFORMATION

	Applicant:	L'Image Home Products Inc. 1175 Place du Frere Andre, Montreal, QC, H3B 3X9, Canac	la
	Manufacturer:	Ningbo Weitao Electrical Appliance Co., Ltd. Industrial Zone of Xidian, Xidian Town, Ninghai City, Nin China 315613	igbo,
	FCC ID:	X5I30310478	
	Product:	LED Power Failure Light	
	Model/Type reference:	30310478	
	Trade Name:	Sunbeam	
	Serial Number:	N/A	
	Report Number:	EED32H000558	
ć	Sample Received Date:	May 10, 2015	
-	Sample tested Date:	May 10, 2015 to Jun. 15, 2015	

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The above equipment was tested by Centre Testing International (Shenzhen) Corporation for compliance with the requirements set forth in the FCC Rules and the measurement procedure according to ANSI C63.4-2009 & ANSI C63.10-2009.

2. TEST SUMMARY

No.	Test Item	Rule	Test Result
	Conducted Emission	FCC 15.207	PASS
2	Radiated Emission	FCC 15.209	PASS

3. PRODUCT INFORMATION

Items	Descri	ption	
Rating	AC 120V, 60Hz/1.8W		
Antenna Type	Coil antenna		-
Operated frequency	73kHz		





4. MEASUREMENT UNCERTAINTY

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement items	Uncertainty	
Conducted Emission Test	3.2 dB	
Radiated Emissions / Bandedge Emission	4.5 dB	رو

5. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Due Date
3M Chamber & Accessory Equipment	ETS-LINDGREN	FACT-3	3510	06/01/2016
Spectrum Analyzer	Agilent	E4443A	MY45300910	01/15/2015
Receiver	R&S	ESCI	100435	07/19/2015
Loop Antenna	ETS-LINDGREN	6502	00071730	07/22/2015
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	617	06/25/2015
Multi device Controller	maturo	NCD/070/10711 112		N/A
Spectrum Analyzer	R&S	FSP40	100416	07/06/2015
Receiver	R&S	ESCI	100009	07/19/2015
LISN	R&S	ENV216	100098	07/19/2015

6. SUPPORT EQUIPMENT LIST

Device Type	Brand	Model	Series No.	Data Cable	Remark
LED LIGHT	Sunbeam	30310478			FCC VOC
				ST	















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7. AC CONDUCTED EMISSION TEST

|--|

	Limits for Class B digital de	evices
Frequency range	Limits d	lΒ(μV)
(MHz)	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

7.2. BLOCK DIAGRAM OF TEST SETUP



7.3. PROCEDURE OF CONDUCTED EMISSION TEST

a. The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



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7.4. GRAPHS AND DATA

Product:LED Power Failure LightPower:AC 120V/60HzMode:Charging

Model/Type reference	:	30310478
Temperature	:	22 ℃
Humidity	:	52%





9.78

60.00

50.00

-46.95

-40.22

Ρ

23.4180

6

2.72

-0.55

10.33

13.05









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No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1580	40.63		6.62	9.90	50.53		16.52	65.56	55.56	-15.03	-39.04	Ρ	
2	0.3339	16.21		13.49	9.90	26.11		23.39	59.35	49.35	-33.24	-25.96	Ρ	
3	0.4460	14.84		12.95	9.90	24.74		22.85	56.95	46.95	-32.21	-24.10	Ρ	
4	0.7420	10.77		8.66	9.90	20.67		18.56	56.00	46.00	-35.33	-27.44	Ρ	
5	1.9260	15.19		11.12	9.90	25.09		21.02	56.00	46.00	-30.91	-24.98	Ρ	
6	15.6060	2.26		-1.46	9.96	12.22		8.50	60.00	50.00	-47.78	-41.50	Ρ	





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8. RADIATED EMISSION MEASUREMENT

8.1. LIMITS		
Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

8.2. BLOCK DIAGRAM OF TEST SETUP





8.3. TEST PROCEDURE

Below 30MHz

a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.

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b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.

c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

30MHz ~ 1GHz:

a. The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.



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13		1		1	1		1:2	
Level [dBµV/n	1]							
130					·		·	
		+ + +			· + 			
100	· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c} 1 & 1 & 1 \\ 7 & 7 & 7 \\ 1 & 1 & 1 \end{array}$			· 		· F F F	
80	· · · · · · · ·			 - - -	·	 		
60	+ + - - - - - - - -	+++		+ - - - 	· + 	⊢ - + - - 	· + + +	
40	- Martin Antonia	+++					·	
i 		·····			·!	minim)
10		k 100k 200k	200k 500k	114	2M 2		10M	201/
9K 2	UK SUK SUK /UK	CTUUK 200K	Frequency	[Hz]	ZIVI J		TOIVI	3010
x x MES CTI	150512068_red							
	_							
requency	Level Tra	nsd Limit	Margin	Det.	Height	Azimuth	Polariza	tio
MHz	dBµV/m	dB dBµV/m	dB		CM	deg		
0.073014	58.00 -1	8.6 90.4	32.4	VA	100.0	175.00	VERTICAL	
0.388800	44.70 -1	9.9 75.8	31.1	AV	100.0	273.00	VERTICAL	
2.060400	34.20 -1	9.6 69.5	35.3	QP QP	100.0	71.00	VERTICAL	
8.508000	22.10 -1	9.8 69.5	47.4	QP	100.0	273.00	VERTICAL	
9.402700	21.00 -2	0.5 09.5	40.5	Ϋ́Р	100.0	175.00	VERIICAL	







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TEST SETUP OF RADIATED EMISSION (9kHz-30MHz)



TEST SETUP OF RADIATED EMISSION (30MHz-1GHz)











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TEST SETUP OF CONDUCTED EMISSION



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External View of product-5



External View of product-6



























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Internal View of product-3



Internal View of product-4

*** End of Report ***

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