

EMC TEST REPORT

For

SBC LIGHTING SDN BHD

LED Flood Light

Model No.: VL-FL-G4.5-1800W

Additional Model No.: See Model List

Prepared for : SBC LIGHTING SDN BHD
Address : No, 15 JALAN SKI 4/KU7, KAWASAN INDUSTRI HI
TECH, SUNGAI KAPAR INDAH, 42200, KAPAR,
SELANGOR D.E, MALAYSIA

Prepared by : Shenzhen AOCE Electronic Technology Service Co., Ltd.
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Date of receipt of test sample : April 28, 2025
Number of tested samples : 1
Serial number : Prototype
Date of Test : April 28, 2025 - May 5, 2025
Date of Report : May 5, 2025



EMC TEST REPORT
EN 55015:2019+A11:2020

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN IEC 61547: 2023

Equipment for general lighting purposes - EMC immunity requirements

Report Reference No. : AOC250508101E

Date Of Issue..... : May 5, 2025

Testing Laboratory Name..... : 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

Testing Location/ Procedure..... : Full application of Harmonised standards ■
 Partial application of Harmonised standards □
 Other standard testing method □

Applicant's Name..... : SBC LIGHTING SDN BHD

Address..... : No, 15 JALAN SKI 4/KU7, KAWASAN INDUSTRI HI TECH, SUNGAI KAPAR INDAH, 42200, KAPAR, SELANGOR D.E, MALAYSIA

Test Specification:

Standard..... : EN 55015:2019+A11:2020
 EN IEC 61000-3-2:2019+A1:2021+A2:2024
 EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022
 EN IEC 61547: 2023

Test Report Form No..... : AOCEMC-1.0

TRF Originator..... : Shenzhen AOCE Electronic Technology Service Co., Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description..... : LED Flood Light

Trade Mark..... : 

Model/ Type Reference..... : VL-FL-G4.5-1800W

Ratings..... : 220-277~, 50/60Hz, 1800W

Result : Positive

Compiled by:

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David Liu/ File administrators

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Kevin Huang

Kevin Huang/ Technique principal

Approved by:

Jackson Fang

Jackson Fang/ Manager

EMC -- TEST REPORT

Test Report No. : AOC250508101EMay 5, 2025

Date of issue

Type / Model..... : VL-FL-G4.5-1800W

EUT..... : LED Flood Light

Applicant..... : SBC LIGHTING SDN BHDAddress..... : No, 15 JALAN SKI 4/KU7, KAWASAN INDUSTRI HI
TECH, SUNGAI KAPAR INDAH, 42200, KAPAR,
SELANGOR D.E, MALAYSIA

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Manufacturer..... : SBC LIGHTING SDN BHDAddress..... : No, 15 JALAN SKI 4/KU7, KAWASAN INDUSTRI HI
TECH, SUNGAI KAPAR INDAH, 42200, KAPAR,
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Fax..... : /

Factory..... : SBC LIGHTING SDN BHDAddress..... : No, 15 JALAN SKI 4/KU7, KAWASAN INDUSTRI HI
TECH, SUNGAI KAPAR INDAH, 42200, KAPAR,
SELANGOR D.E, MALAYSIA

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 7:**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION (EN 55015:2019+A11:2020)			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN 55015:2019+A11:2020	-----	PASS
Magnetic field emission	EN 55015:2019+A11:2020	-----	PASS
Radiated disturbance	EN 55015:2019+A11:2020	-----	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021+A2:2024	Class C	PASS
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022	-----	PASS
IMMUNITY (EN IEC 61547: 2023)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2020	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4: 2012	B	PASS
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+A1: 2017	B	PASS
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014+AC: 2015	A	PASS
Power frequency magnetic field	EN 61000-4-8: 2010	A	PASS
Voltage dips, 30% reduction	EN 61000-4-11: 2020	C	PASS
Voltage interruptions		B	PASS
N/A is an abbreviation for Not Applicable.			

1.2. Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;
- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);
- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

1.2.1. Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2. Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3. Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: LED Flood Light
Model Number	: VL-FL-G4.5-1800W
Power Supply	: 220-277~, 50/60Hz, 1800W

2.2. Description of Test Facility

EMC Lab.

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the AOC quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4.Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

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

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1. Conducted Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2024/04/13
2	10dB Attenuator	SCHWARZBECK	OSPAM236	9729	2024/04/13
3	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2024/04/13
4	EMI Test Software	AUDIX	E3	N/A	2024/04/13

3.2. Disturbance Power

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2024/04/13
2	Absorbing clamp	ROHDE & SCHWARZ	MDS 21	4033	2024/04/13
3	EMI Test Software	AUDIX	E3	N/A	2024/04/13
4	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2024/04/13

3.3. Radiated Electromagnetic Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1011423	2024/04/13
2	Triple-loop Antenna	EVERFINE	LLA-2	11050003	2024/04/13
3	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2024/04/13
4	EMI Test Software	AUDIX	E3	N/A	2024/04/13

3.4. Radiated Disturbance (Electric Field)

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024/04/13
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2024/04/13
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2024/04/13
4	EMI Test Software	AUDIX	E3	N/A	2024/04/13
5	Positioning Controller	MF	MF-7082	/	2024/04/13
6	Horn Antenna	ETS.LINDGREN	3115	00034771	2024/04/13
7	Spectrum Analyzer	Agilent	E4407B	MY41440754	2024/04/13

3.5. Harmonic Current

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2024/04/13

3.6. Voltage fluctuation and Flicker

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2024/04/13

3.7.Electrostatic Discharge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	KIKUSUI	KC001311	KES4021	2024/04/13

3.8.RF Field Strength Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	SIGNAL GENERATOR	HP	8648A	625U00573	2024/04/13
2	Amplifier	AR	500A100	17034	2024/04/13
3	Amplifier	AR	100W/1000M1	17028	2024/04/13
4	Isotropic Field Monitor	AR	FM2000	16829	2024/04/13
5	Isotropic Field Probe	AR	FP2000	16755	2024/04/13
6	Bi-conic Antenna	EMCO	3108	9507-2534	2024/04/13
7	By-log-periodic Antenna	AR	AT1080	16812	2024/04/13
8	EMS Test Software	ROHDE & SCHWARZ	ESK1	N/A	2024/04/13

3.9.Electrical Fast Transient/Burst

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Electrical fast transient(EFT)generator	3CTEST	EFT-4021	EC0461044	2024/04/13
2	Coupling Clamp	3CTEST	EFTC	EC0441098	2024/04/13

3.10.Surge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Surge test system	3CTEST	SG5006G	EC5581070	2024/04/13
2	Coupling/decoupling network	3CTEST	SGN-5010G	CS5591033	2024/04/13

3.11.Conducted Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Simulator	EMTEST	CIT-10	A126A1195	2024/04/13
2	CDN	EMTEST	CDN-M2	A2210177	2024/04/13
3	CDN	EMTEST	CDN-M3	A2210177	2024/04/13
4	Attenuator	EMTEST	ATT6	50FP-006-H3B	2024/04/13

3.12.Power Frequency Magnetic Field Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2024/04/13

3.13.Voltage Dips

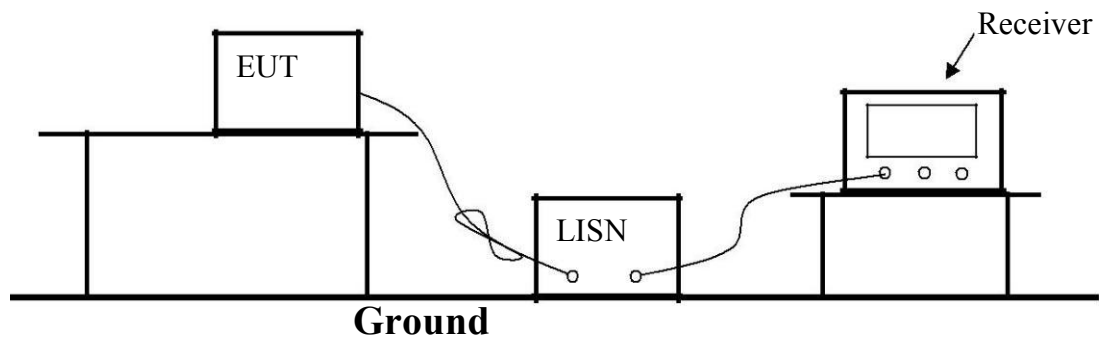
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2024/04/13

3.14.Voltage Short Interruptions

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2024/04/13

4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup



4.2. Conducted Power Line Emission Measurement Standard and Limits

4.2.1. Standard:

EN 55015:2019+A11:2020

4.2.2. Limits

Frequency	At mains terminals (dBμV)	
	Quasi-peak Level	Average Level
9kHz ~ 50kHz	110	--
50kHz ~ 150kHz	90 ~ 80*	--
150kHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

4.3. EUT Configuration on Test

The configuration of the EUT is same as Section 3.1.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown in Section 4.1.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. Let the EUT work in test mode (On) and measure it.

4.5. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN 55015 regulations during conducted emission measurement. And the voltage probe had been used for the load terminals measurement according to the EN 55015 standard.

The bandwidth of the test receiver is set at 200Hz in 9k~150kHz range and 9kHz in 150k~30MHz range.

The frequency range from 9kHz to 30MHz is checked.

All the test results are listed in Section 4.6.

The frequency range from 9kHz to 30MHz is investigated.

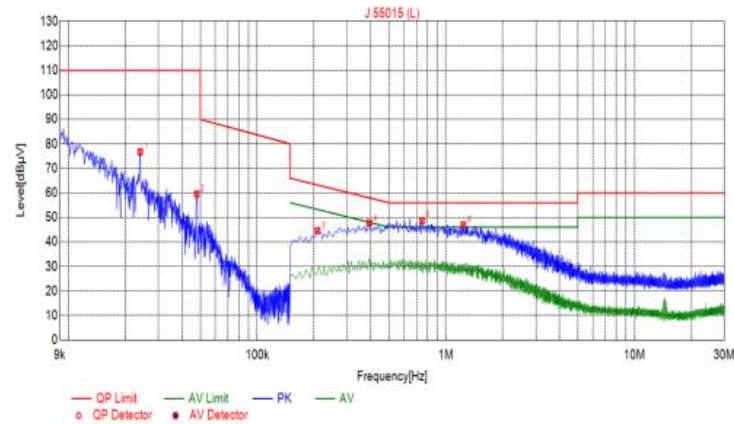
4.6. Test Results

PASS.

The test result please refer to the next page.

Model No.	VL-FL-G4.5-1800W	Test Mode	ON
Environmental Conditions	24°C/ 56% RH	Test Engineer	Liang
Pol	Line	Test Date	April 28, 2025

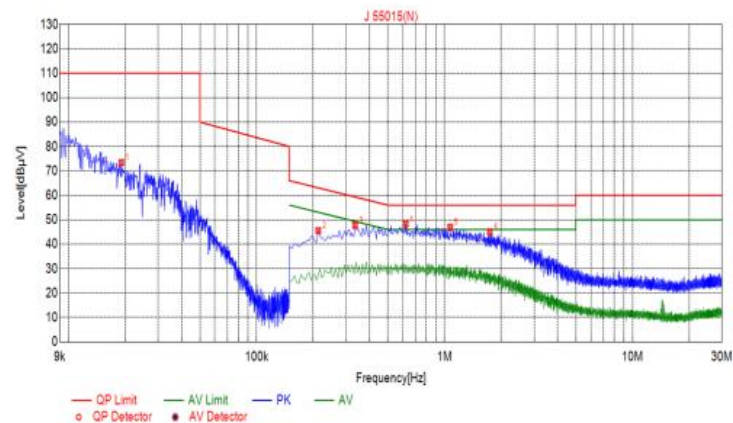
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.0240	76.78	20.11	110.00	33.22	56.67	PK	L
2	0.0478	59.56	20.10	110.00	50.44	39.46	PK	L
3	0.2085	44.58	20.04	63.26	18.68	24.54	PK	L
4	0.3930	47.78	20.04	58.00	10.22	27.74	PK	L
5	0.7485	48.68	20.06	56.00	7.32	28.62	PK	L
6	1.2390	47.00	20.09	56.00	9.00	26.91	PK	L

Model No.	VL-FL-G4.5-1800W	Test Mode	ON
Environmental Conditions	24°C/ 56% RH	Test Engineer	Liang
Pol	Neutral	Test Date	April 28, 2025

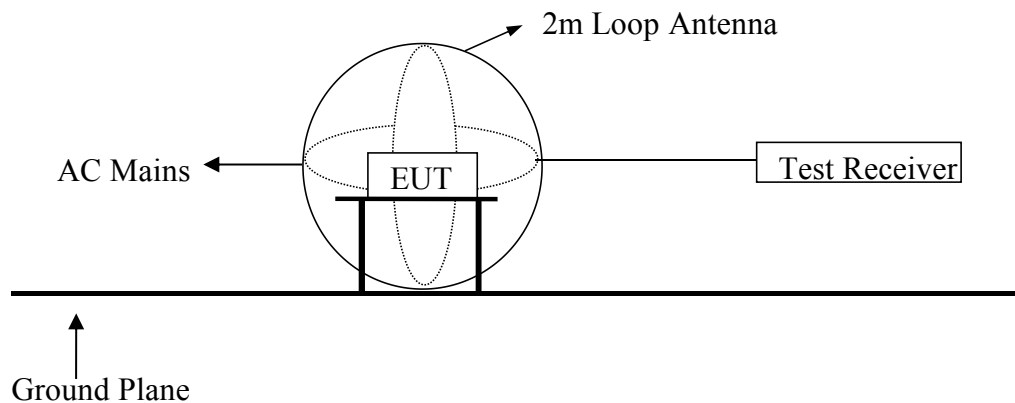
Test Graph



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.0191	73.45	20.11	110.00	36.55	53.34	PK	N
2	0.2130	45.54	20.05	63.09	17.55	25.49	PK	N
3	0.3345	47.73	20.04	59.34	11.61	27.69	PK	N
4	0.6225	48.26	20.05	56.00	7.74	28.21	PK	N
5	1.0725	46.92	20.07	56.00	9.08	26.85	PK	N
6	1.7430	45.05	20.14	56.00	10.95	24.91	PK	N

5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Magnetic Field Emission Measurement Standard and Limits

5.2.1. Test Standard

EN 55015:2019+A11:2020

5.2.2. Test Limits

Frequency	Limits for loop diameter (dB μ A)
	2m
9kHz ~ 70kHz	88
70kHz ~ 150kHz	88 ~ 58*
150kHz ~ 3.0MHz	58 ~ 22*
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

5.3. EUT Configuration on Test

The configuration of the EUT is same as Section 4.3.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT as shown in Section 5.1.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. Let the EUT work in test mode (On) and measure it.

5.5. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

All the test results are listed in Section 5.6.

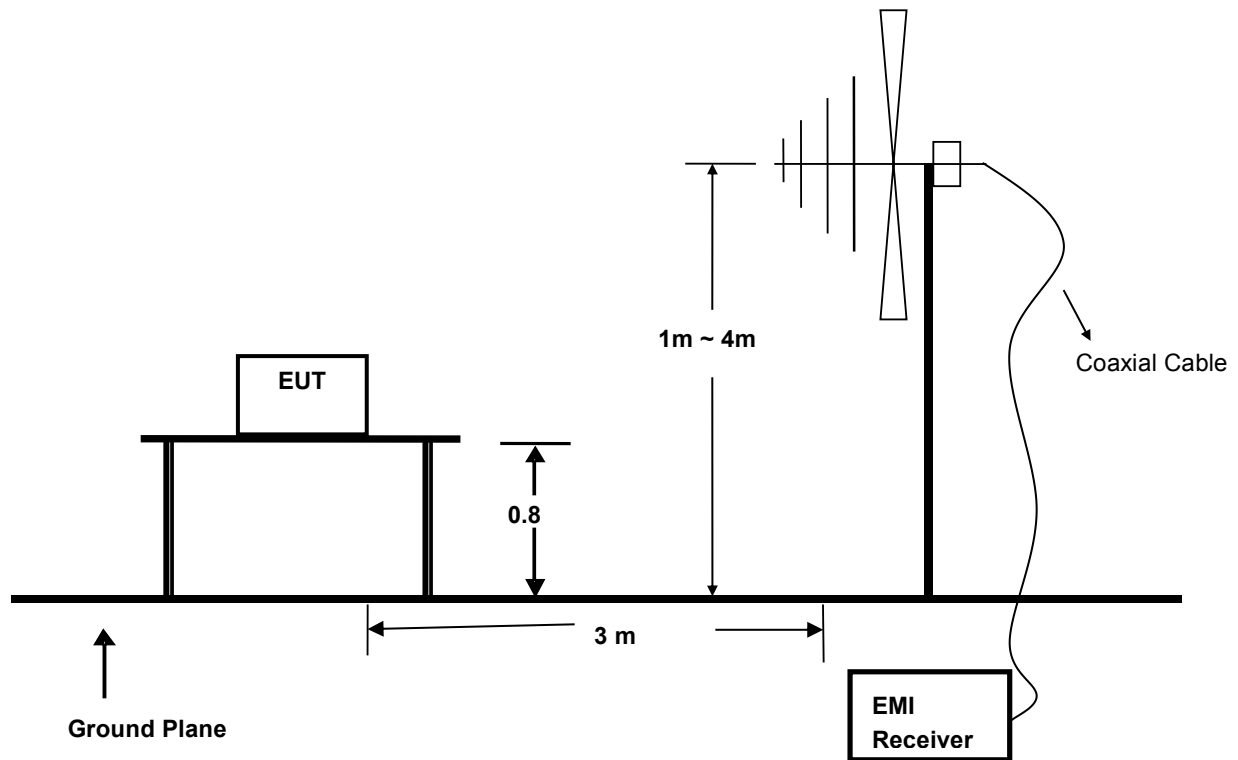
5.6. Test Results

PASS.

The frequency range from 9kHz to 30MHz is investigated.

6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Test Standard

EN 55015:2019+A11:2020

6.3. Radiated Emission Limits

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

6.4.EUT Configuration on Test

The EN 55015 regulations test method must be used to find the maximum emission during radiated emission measurement.

6.5.Operating Condition of EUT

6.5.1 Turn on the power.

6.5.2 After that, let the EUT work in test mode (ON) and measure it.

6.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 10 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

The frequency range from 30MHz to 300MHz is investigated.

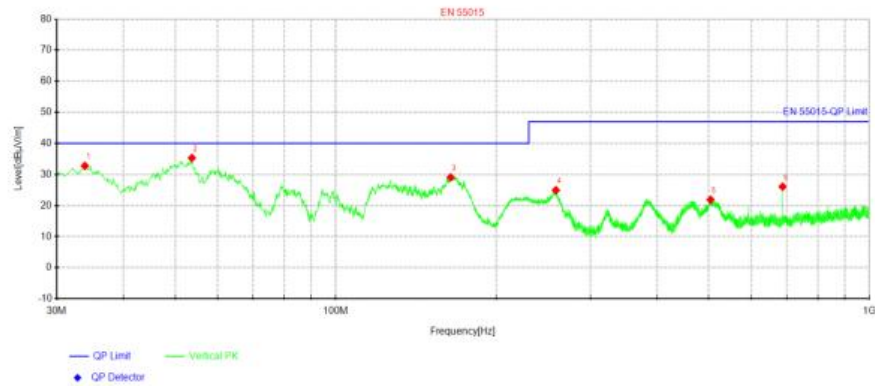
6.7.Test Results

PASS.

The test result please refer to the next page.

Model No.	VL-FL-G4.5-1800W	Test Mode	ON
Environmental Conditions	24°C / 56% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Liang	Test Date	April 28, 2025

Test Graph

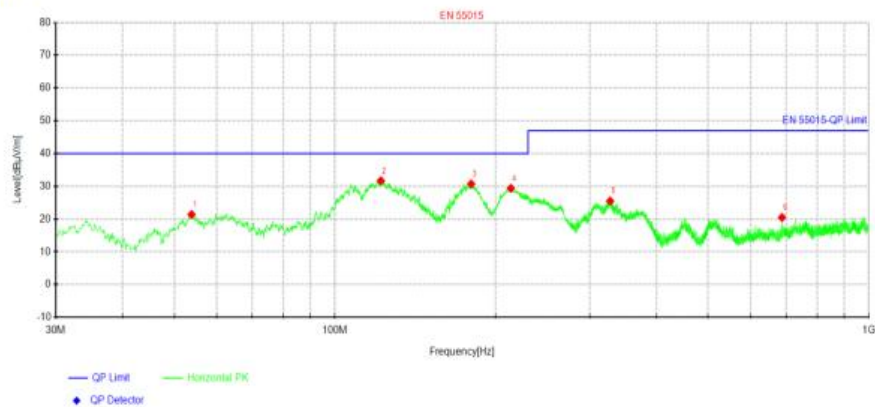


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.88	50.79	32.74	-18.05	40.00	7.26	100	217	Vertical
2	53.765	52.19	35.32	-16.87	40.00	4.68	100	11	Vertical
3	164.223	50.42	29.05	-21.37	40.00	10.95	100	295	Vertical
4	258.556	42.71	24.93	-17.78	47.00	22.07	100	131	Vertical
5	503.845	36.11	21.87	-14.24	47.00	25.13	100	3	Vertical
6	687.538	37.81	26.07	-11.74	47.00	20.93	100	201	Vertical

Model No.	VL-FL-G4.5-1800W	Test Mode	ON
Environmental Conditions	24°C / 56% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Liang	Test Date	April 28, 2025

Test Graph

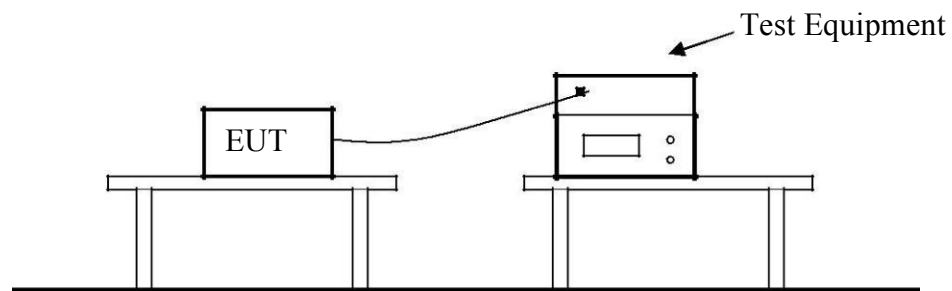


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.8862	38.29	21.39	-16.90	40.00	18.61	100	23	Horizontal
2	121.907	52.17	31.69	-20.48	40.00	8.31	100	178	Horizontal
3	179.986	51.27	30.73	-20.54	40.00	9.27	100	187	Horizontal
4	213.572	48.37	29.38	-18.99	40.00	10.62	100	196	Horizontal
5	327.668	42.17	25.51	-16.66	47.00	21.49	100	324	Horizontal
6	687.538	32.24	20.50	-11.74	47.00	26.50	100	178	Horizontal

7. HARMONIC CURRENT MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Test Standard

EN IEC 61000-3-2:2019+A1:2021+A2:2024

7.3. Operating Condition of EUT

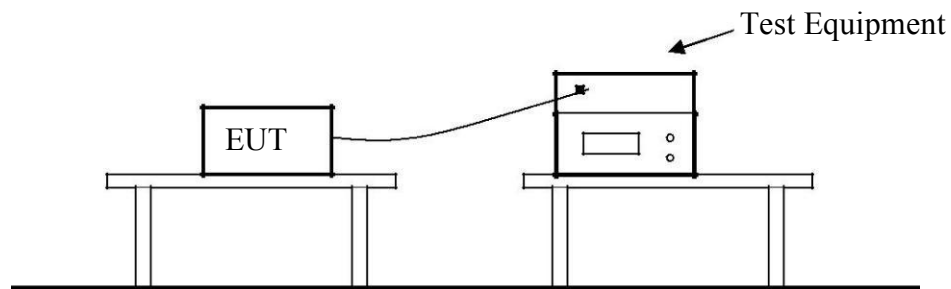
Same as Section 4.4. except the test setup replaced by Section 7.1.

7.4. Test Results

PASS.

8. VOLTAGE FLUCTUATIONS & FLICKER MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Test Standard

EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022

8.3. Operating Condition of EUT

Same as Section 4.4. except the test setup replaced by Section 8.1.

8.4. Test Results

PASS.

The test result please refer to the next page.

9.1. Block Diagram of Test Setup



9.3. Severity Levels and Performance Criterion

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
X	Special	Special

9.4.EUT Configuration on Test

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9.5. Operating Condition of EUT

9.5.1. Setup the EUT as shown in Section 6.1.

9.5.2. Turn on the power of all equipments.

9.5.3. Let the EUT work in test mode (ON) and measure it.

9.6. Test Procedure

9.6.1. Air Discharge

This test is done on a non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Because the case of the EUT is metal surface, so it does not need to be tested.

9.6.2. Contact Discharge

All the procedure shall be same as Section 6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.6.3. Indirect Discharge For Horizontal Coupling Plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

9.6.4. Indirect Discharge For Vertical Coupling Plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

9.7. Test Results

PASS.

Please refer to the following page.

Electrostatic Discharger Test Results

Standard	☐ IEC 61000-4-2 ☒ EN 61000-4-2		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26°C
M/N	VL-FL-G4.5-1800W	Humidity	51%
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Air Discharge

Test Points	Test Levels			Results		
	± 2KV	± 4KV	± 8KV	Pass	Fail	Performance Criterion
Front	☒	☒	☒	☒	☐	☐ A ☒ B
Back	☒	☒	☒	☒	☐	☐ A ☒ B
Left	☒	☒	☒	☒	☐	☐ A ☒ B
Right	☒	☒	☒	☒	☐	☐ A ☒ B
Top	☒	☒	☒	☒	☐	☐ A ☒ B
Bottom	☒	☒	☒	☒	☐	☐ A ☒ B

Contact Discharge

Test Points	Test Levels		Results		
	± 2 KV	±4 KV	Pass	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐ A ☒ B
Back	☒	☒	☒	☐	☐ A ☒ B
Left	☒	☒	☒	☐	☐ A ☒ B
Right	☒	☒	☒	☐	☐ A ☒ B
Top	☒	☒	☒	☐	☐ A ☒ B
Bottom	☒	☒	☒	☐	☐ A ☒ B

Discharge To Horizontal Coupling Plane

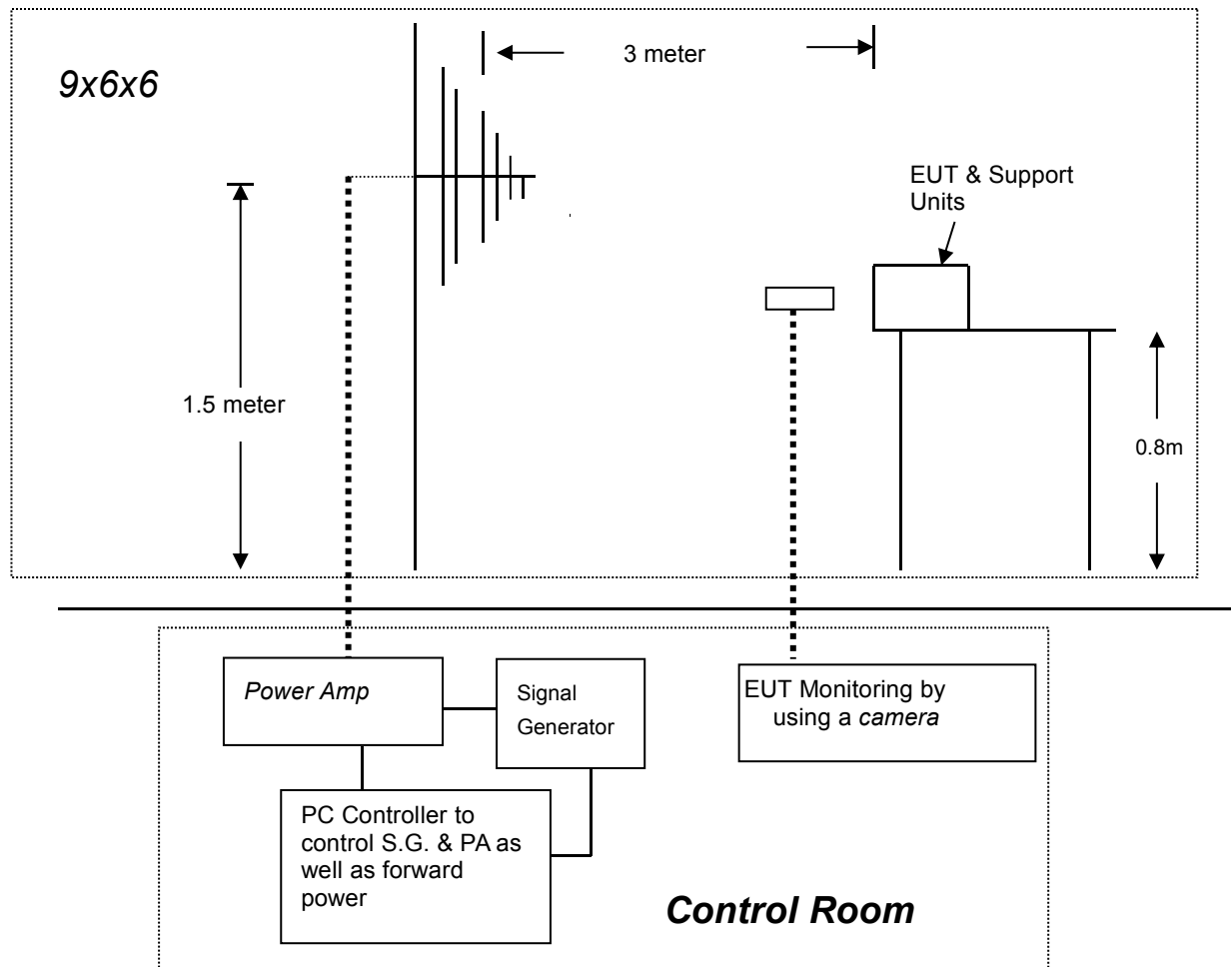
Side of EUT	Test Levels		Results		
	± 2 KV	± 4 KV	Pass	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐ A ☒ B
Back	☒	☒	☒	☐	☐ A ☒ B
Left	☒	☒	☒	☐	☐ A ☒ B
Right	☒	☒	☒	☐	☐ A ☒ B

Discharge To Vertical Coupling Plane

Side of EUT	Test Levels		Results		
	± 2 KV	± 4 KV	Pass	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐ A ☒ B
Back	☒	☒	☒	☐	☐ A ☒ B
Left	☒	☒	☒	☐	☐ A ☒ B
Right	☒	☒	☒	☐	☐ A ☒ B

10. RF FIELD STRENGTH SUSCEPTIBILITY TEST

10.1. Block Diagram of Test Setup



10.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-3: 2020, Severity Level: 2, 3V / m)

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Level	Field Strength (V/m)
1	1
2	3
3	10
X	Special

10.3.2. Performance criterion: A

10.4.EUT Configuration on Test

The configuration of EUT are listed in Section 2.1.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT as shown in Section 7.1.

10.5.2.Turn on the power of all equipments.

10.5.3.Let the EUT work in test mode (On) and measure it.

10.6.Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

Condition of Test	Remarks
-----	-----
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80 - 1000 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	3 Sec.

10.7.Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

Standard	☐ IEC 61000-4-3 ☒ EN 61000-4-3		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26°C
M/N	VL-FL-G4.5-1800W	Humidity	51%
Field Strength	3 V/m	Criterion	A
Test Mode	ON	Test Engineer	Liang
Frequency Range	80 MHz to 1000 MHz		
Modulation	☐ None ☐ Pulse ☒ AM 1KHz 80%		
Steps	1%		

	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

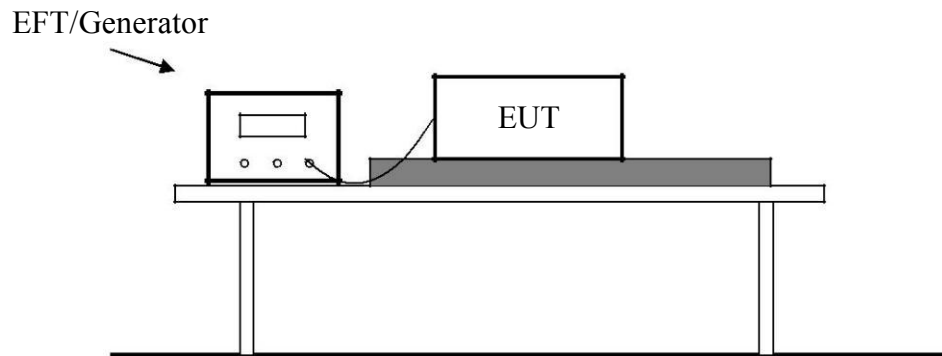
Test Equipment:

1. Signal Generator: 2031 (MARCONI)
2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)
3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor: FM2000 (A&R)

Note:

11. ELECTRICAL FAST TRANSIENT/BURST TEST

11.1. Block Diagram of Test Setup



11.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-4: 2012, Severity Level: Level 2: 1KV)

11.3. Severity Levels and Performance Criterion

11.3.1. Severity level

Level	Open Circuit Output Test Voltage $\pm 10\%$	
	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
x.	Special	Special

11.3.2. Performance criterion: **B**

11.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.9.

11.5. Operating Condition of EUT

11.5.1. Setup the EUT as shown in Section 11.1.

11.5.2. Turn on the power of all equipments.

11.5.3. Let the EUT work in test mode (ON) and measure it.

11.6. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

11.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

11.6.2.For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

11.6.3.For DC output line ports:

It's unnecessary to test.

11.7.Test Results

PASS.

Please refer to the following page.

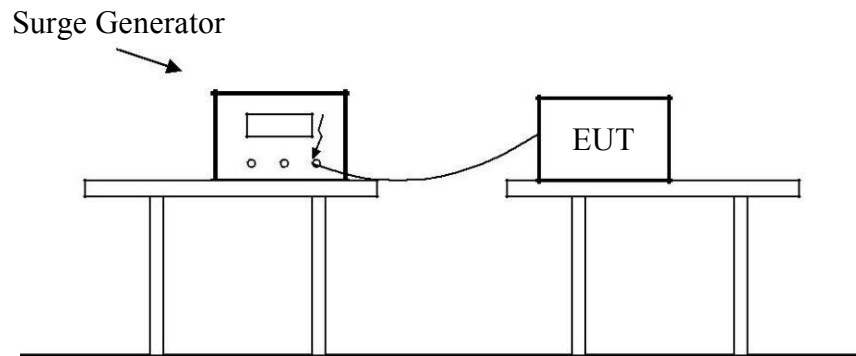
Electrical Fast Transient/Burst Test Results

Standard	☐ IEC 61000-4-4 ☒ EN 61000-4-4		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26℃
M/N	VL-FL-G4.5-1800W	Humidity	51%
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
PE			
L-N	1KV	PASS	PASS
L-PE			
N-PE			
L-N-PE			
Signal Line			
I/O Cable			
Note:			

12. SURGE IMMUNITY TEST

12.1. Block Diagram of Test Setup



2.2. Test Standard

EN IEC 61547: 2023 (EN61000-4-5: 2014, Severity Level: Line to Line: Level 2, 1.0KV; Line to Earth: Level 3, 2.0KV)

12.3. Severity Levels and Performance Criterion

12.3.1. Severity level

Severity Level	Open-Circuit Test Voltage (KV)
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

12.3.2. Performance criterion: **B**

12.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.10.

12.5. Operating Condition of EUT

- 12.5.1. Setup the EUT as shown in Section 12.1.
- 12.5.2. Turn on the power of all equipments.
- 12.5.3. Let the EUT work in test mode (ON) and measure it.

12.6. Test Procedure

- 12.6.1. Set up the EUT and test generator as shown on Section 12.1.
- 12.6.2. For line to line coupling mode, provide a 0.5KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 12.6.3. At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 12.6.4. Different phase angles are done individually.
- 12.6.5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.7. Test Results

PASS.

Please refer to the following page.

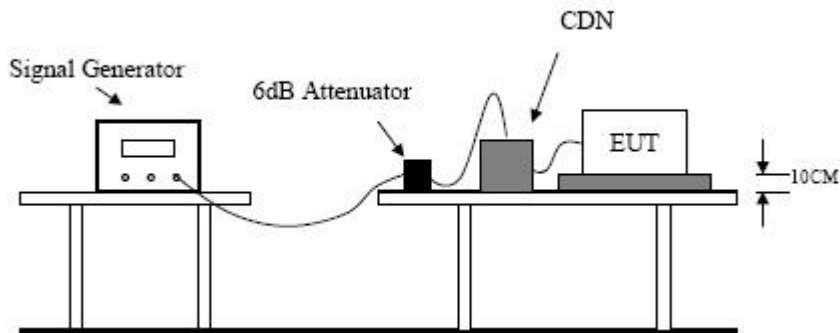
Electrical Fast Transient/Burst Test Results

Standard	☐ IEC 61000-4-5 ☒ EN 61000-4-5		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26℃
M/N	VL-FL-G4.5-1800W	Humidity	51%
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N	+	0°	5	0.5	PASS
	+	90°	5	0.5	PASS
	+	180°	5	0.5	PASS
	+	270°	5	0.5	PASS
	-	0°	5	0.5	PASS
	-	90°	5	0.5	PASS
	-	180°	5	0.5	PASS
	-	270°	5	0.5	PASS
L-PE					
N-PE					
Signal Line					
Note					

13. INJECTED CURRENTS SUSCEPTIBILITY TEST

13.1. Block Diagram of Test Setup



13.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-6: 2014+A1: 2015 , Severity Level: 3V (rms), 0.15MHz ~ 80MHz)

13.3. Severity Levels and Performance Criterion

13.3.1. Severity level

Level	Field Strength (V)
1.	1
2.	3
3.	10
X	Special

13.3.2. Performance criterion: A

13.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.11.

13.5.Operating Condition of EUT

- 13.5.1.Setup the EUT as shown in Section 13.1.
- 13.5.2.Turn on the power of all equipments.
- 13.5.3.Let the EUT work in test mode (ON) and measure it.

13.6.Test Procedure

- 13.6.1.Set up the EUT, CDN and test generators as shown on Section 13.1.
- 13.6.2.Let the EUT work in test mode and measure it.
- 13.6.3.The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 13.6.4.The disturbance signal described below is injected to EUT through CDN.
- 13.6.5.The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 13.6.6.The frequency range is swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 13.6.7.The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 13.6.8.Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

13.7.Test Results

PASS.

Please refer to the following page.

Injected Currents Susceptibility Test Results

Standard	☐ IEC 61000-4-6 ☒ EN 61000-4-6		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26℃
M/N	VL-FL-G4.5-1800W	Humidity	51%
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	April 28, 2025

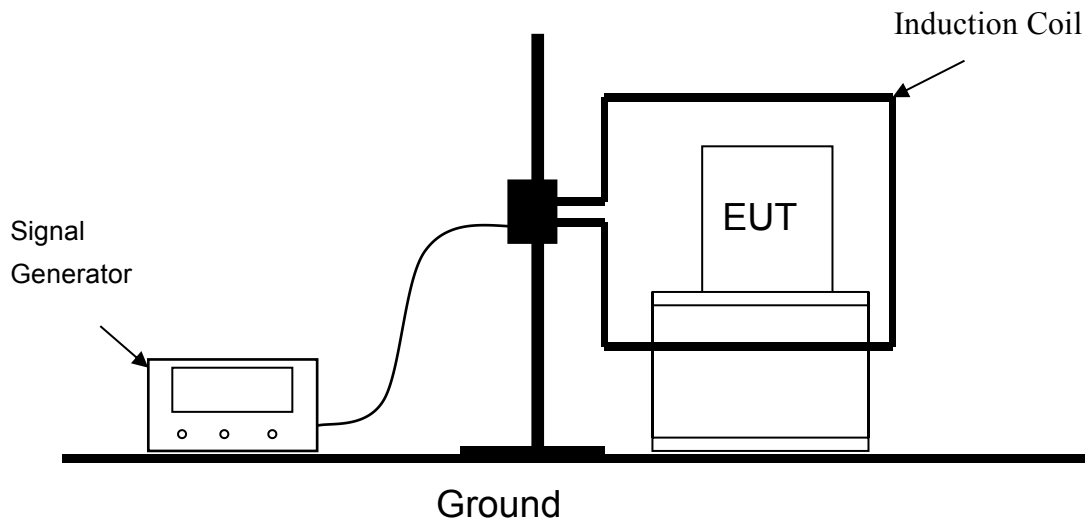
Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS

Remark:
Modulation Signal:1kHz 80% AM

Note:

14. MAGNETIC FIELD IMMUNITY TEST

14.1. Block Diagram of Test Setup



14.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-8: 2010, Severity Level 2: 3A/m)

14.3. Severity Levels and Performance Criterion

14.3.1. Severity level

Level	Magnetic Field Strength (A/m)
1.	1
2.	3
3.	10
4.	30
5.	100
X	Special

14.3.2. Performance criterion: A

14.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.12.

14.5.Operating Condition of EUT

14.5.1.Setup the EUT as shown in Section 14.1.

14.5.2.Turn on the power of all equipments.

14.5.3.Let the EUT work in test mode (On) and measure it.

14.6.Test Procedure

14.6.1.Set up the EUT system as shown on Section 14.1.

14.6.2.The Induction coil is set up in horizontal or vertical.

14.6.3.Let the EUT work in test mode and measure it.

14.7.Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

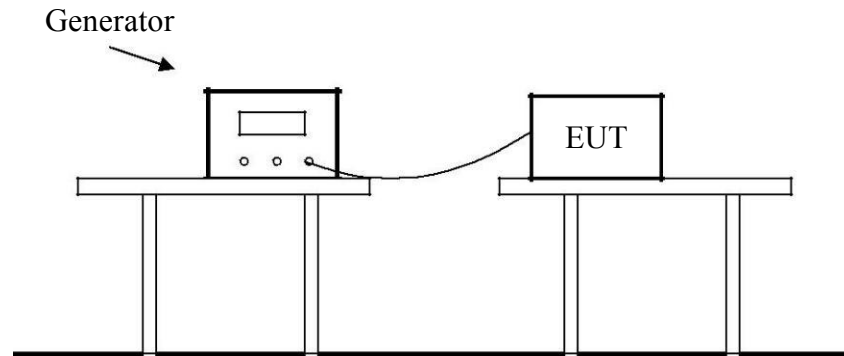
Standard	☐ IEC 61000-4-8 ☒ EN 61000-4-8		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26°C
M/N	VL-FL-G4.5-1800W	Humidity	51%
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	April 28, 2025

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS

Note:

15. VOLTAGE DIPS AND INTERRUPTIONS TEST

15.1. Block Diagram of Test Setup



15.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-11: 2020)

15.3. Severity Levels and Performance Criterion

15.3.1. Severity level

Test Level (%U _T)	Voltage dip and short Interruptions (%U _T)	Duration (in period)
0	100	0.5
70	30	10

15.3.2. Performance criterion: **B&C**

15.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.13&3.14.

15.5.Operating Condition of EUT

- 15.5.1.Setup the EUT as shown in Section 15.1.
- 15.5.2.Turn on the power of all equipments.
- 15.5.3.Let the EUT work in test mode (ON) and measure it.

15.6.Test Procedure

- 15.6.1.Set up the EUT and test generator as shown on Section 15.1.
- 15.6.2.The interruptions is introduced at selected phase angles with specified duration.
- 15.6.3.Record any degradation of performance.

15.7.Test Result

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

Standard	☐ IEC 61000-4-11 ☒ EN 61000-4-11		
Applicant	SBC LIGHTING SDN BHD		
EUT	LED Flood Light	Temperature	26°C
M/N	VL-FL-G4.5-1800W	Humidity	51%
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	April 28, 2025

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion	Result
0	100	0.5P	B	PASS
70	30	10P	C	PASS

Note:

16. PHOTOGRAPH



Fig.1



Fig.2

17. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

PHOTOS

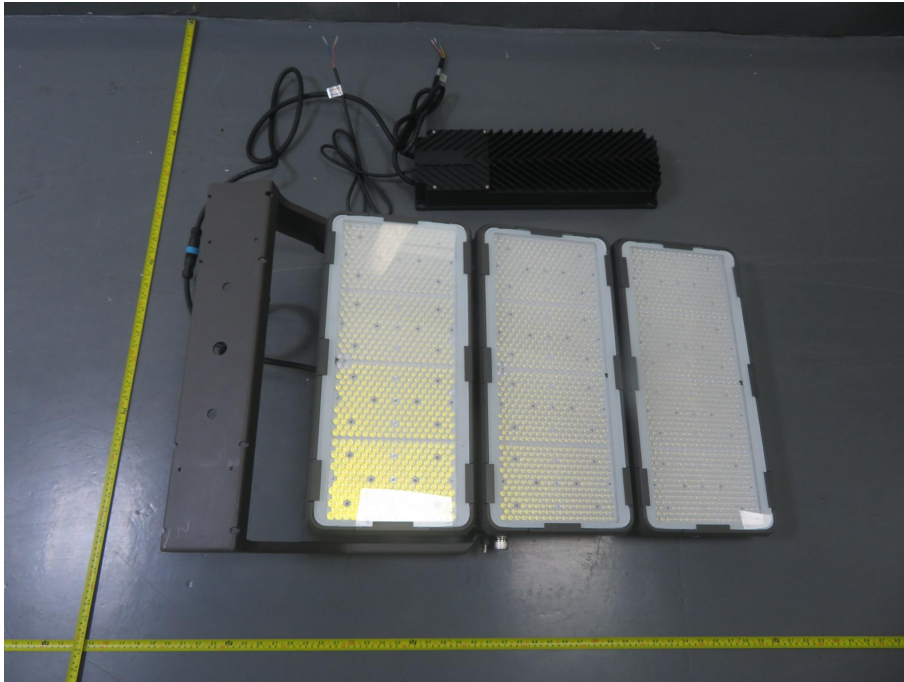


Fig. 1

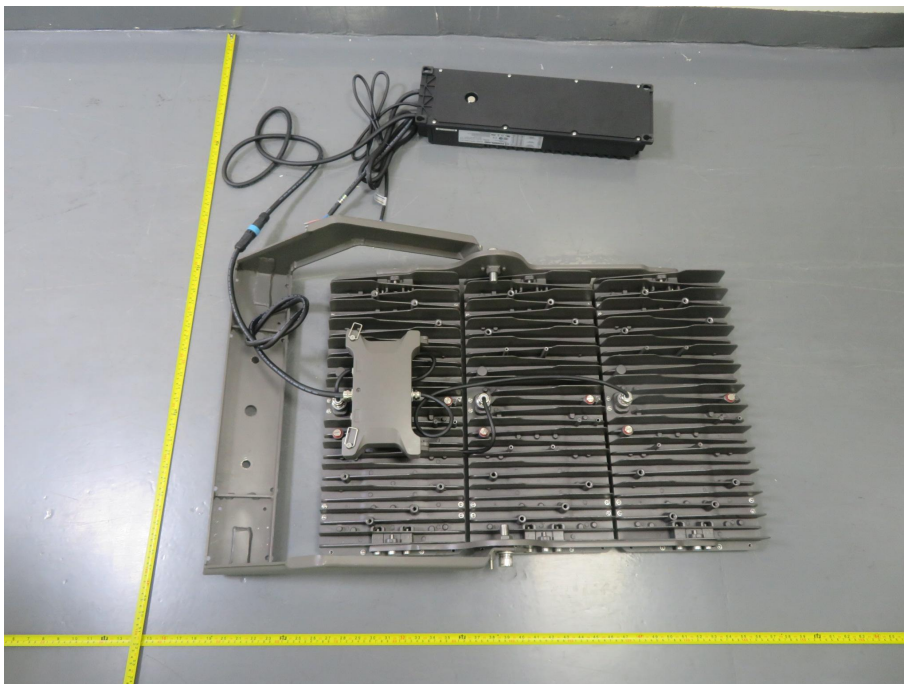


Fig.2

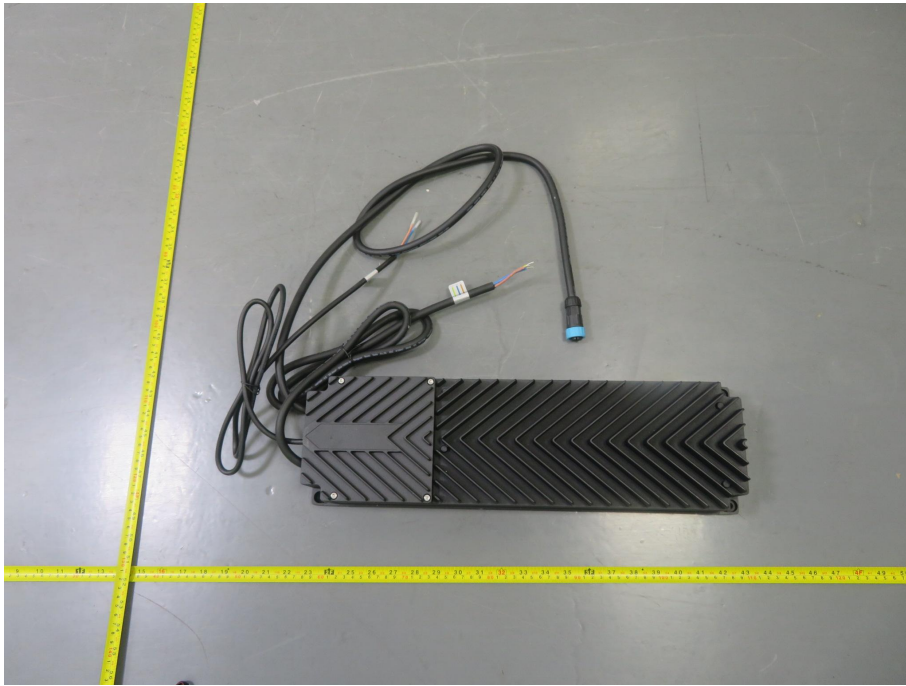


Fig.3

Model List

Model	Rating	LED Driver	LED Qty.
VL-VL-G4.5-300W	AC 220-277V, 50/60Hz, 300W	N7-240M260A12 2pcs	2835: (12C6B+16C7B) × 2+(8C7B+20C8B) ×2 3030: (26C4B+16C5B) × 2+(36C5B+6C6B)×2 2424: (68C2B+16C3B) × 2+36C2B+48C3B)×2
		600FGH420C 1pc	
VL-VL-G4.5-350W	AC 220-277V, 50/60Hz, 350W	N7-240M260A12 2pcs	
		600FGH420C 1pc	
VL-VL-G4.5-400W	AC 220-277V, 50/60Hz, 400W	N7-240M260A12 2pcs	
		600FGH420C 1pc	
VL-VL-G4.5-450W	AC 220-277V, 50/60Hz, 450W	N7-240M260A12 2pcs	
		600FGH420C 1pc	
VL-VL-G4.5-500W	AC 220-277V, 50/60Hz, 500W	N7-240M260A12 2pcs	
		600FGH420C 1pc	
		EUM-480S280MG 1pc	3030: 816pcs or 810 pcs; or 2835: 816pcs or 810pcs or 3535: 240pcs; or 2424: 240pcs:
		EUM-480S280BG 1pc	
		EUM-680S350MG 1pc	
		EUM-680S350BG 1pc	
		S6-600D360 1pc	
		S6-600R360 1pc	
VL-VL-G4.5-600W	AC 220-277V, 50/60Hz, 600W	EUM-680S350MG 1pc	3030: 816pcs or 810 pcs; or 2835: 816pcs or 810pcs or 3535: 240pcs; or 2424: 240pcs:
		EUM-680S350BG 1pc	
		600FGH420C 1pc	
		S6-600D360 1pc	
		S6-600R360 1pc	
VL-VL-G4.5-800W	AC 220-277V, 50/60Hz, 800W	EUM-880S420MG 1pc	
VL-VL-G4.5-1000W	AC 220-277V, 50/60Hz, 1000W	EUM-480S280MG 2pcs	
		EUM-480S280BG 2pcs	
		EUM-680S350MG	

		2pcs	
		EUM-680S350BG	
		2pcs	
		S6-1K2D500 1pc	
VL-VL-G4.5-12 00W	AC 220-277V, 50/60Hz, 1200W	S6-1K2R500 1pc	3030: 1632pcs or 1620pcs or 2835: 1632pcs or 1620pcs or 3535: 480pcs; or 2424: 480pcs:
		EUM-680S350MG	
		2pcs	
		EUM-680S350BG	
VL-VL-G4.5-15 00W	AC 220-277V, 50/60Hz, 1500W	2pcs	
		S6-1K2D500 1pc	
		S6-1K2R500 1pc	
		1800STH500C-xxxx x 1pc	
VL-VL-G4.5-16 00W	AC 220-277V, 50/60Hz, 1600W	HDE-1800STH500C 1pc	
		EUM-880S420MG	
		2pcs	
		EUM-880S420MG	
VL-VL-G4.5-15 00W	AC 220-277V, 50/60Hz, 1500W	2pcs	3030: 2448pcs or 2430pcs; or 2835: 2448pcs or 2430pcs; or 3535: 720pcs; or 2424: 720pcs:
		EUM-480S280MG	
		3pcs	
		EUM-480S280BG	
		3pcs	
		EUM-680S350MG	
		3pcs	
		EUM-680S350BG	
		3pcs	
		EUCO-1K5140GLA 1pc	
VL-VL-G4.5-18 00W	AC 220-277V, 50/60Hz, 1800W	EUCO-1K5140GDA 1pc	3030: 2448pcs or 2430pcs; or 2835: 2448pcs or 2430pcs; or
		S6-1K8D500 1pc	
		S6-1K8R500 1pc	
		1800STH500C-xxxx x 1pc	
		HDE-1800STH500C 1pc	
		EUM-680S350MG	
		3pcs	
		EUM-680S350BG	
		3pcs	
		S6-1K8D500 1pc	
		S6-1K8R500 1pc	

		1800STH500C-xxxx x 1pc	3535: 720pcs; or
		HDE-1800STH500C 1pc	2424: 720pcs:
Remark : Covers all 2700K,3000K,3500K,4000K,4500K,5000K,5700K,6000K, 6500K. indicates CCT.			

-----THE END OF REPORT-----