

Appendix E: Test Results of FCC 15B&ICES-003

APPENDIX E: TEST RESULTS OF FCC 15B&ICES-003	1
APPENDIX E.1: TEST PLOTS OF CONDUCTED EMISSION ON AC MAINS	2
<i>Lighting mode</i>	<i>2</i>
APPENDIX E.2: TEST PLOTS OF RADIATED EMISSION, BELOW 1GHZ	4
<i>Lighting mode</i>	<i>4</i>
APPENDIX E.3: TEST PLOTS OF RADIATED EMISSION, ABOVE 1GHZ	6
<i>Lighting mode</i>	<i>6</i>

Appendix E.1: Test Plots of Conducted Emission on AC Mains

Lighting mode

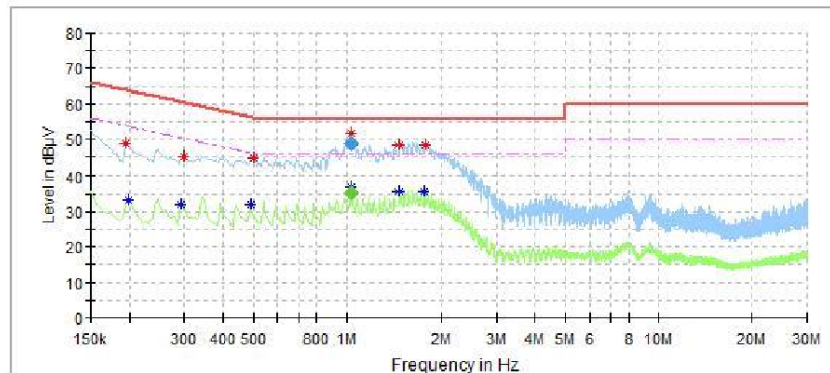
L 120 V FCC

1 / 1

Test Report

EUT Information

EUT Name:	Floodlight Wired
Order No.:	168154565 140
Model:	5W21S8
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.194000	48.89	---	63.86	14.97	L1	9.6
0.198000	---	33.34	53.69	20.36	L1	9.6
0.294000	---	31.86	50.41	18.55	L1	9.6
0.298000	45.17	---	60.30	15.13	L1	9.6
0.490000	---	32.14	46.17	14.03	L1	9.7
0.500000	44.73	---	56.00	11.27	L1	9.7
1.031500	---	36.92	46.00	9.08	L1	9.7
1.032500	51.57	---	56.00	4.43	L1	9.7
1.468000	48.50	---	56.00	7.50	L1	9.7
1.468000	---	35.53	46.00	10.47	L1	9.7
1.760000	---	35.60	46.00	10.40	L1	9.7
1.768000	48.39	---	56.00	7.61	L1	9.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.031500	---	35.34	46.00	10.66	200.0	9.000	L1	9.7
1.032500	48.97	---	56.00	7.03	200.0	9.000	L1	9.7

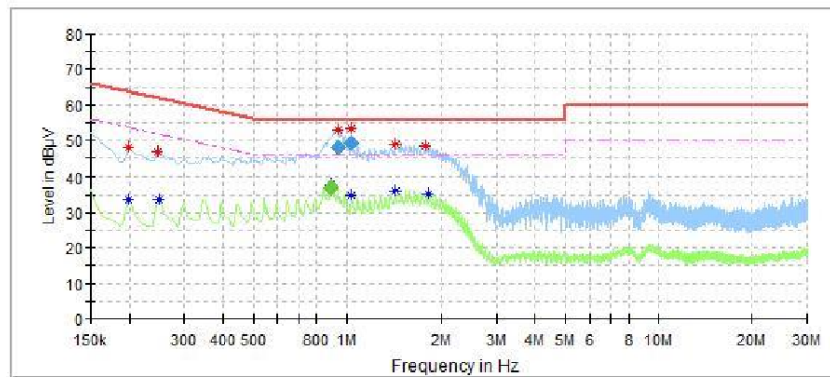
N 120 V FCC

1 / 1

Test Report

EUT Information

EUT Name:	Floodlight Wired
Order No.:	168154565 140
Model:	5W21S8
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.198000	47.97	---	63.69	15.73	N	9.6
0.198000	---	33.55	53.69	20.14	N	9.6
0.246000	46.82	---	61.89	15.07	N	9.6
0.250000	---	33.77	51.76	17.98	N	9.6
0.887500	---	37.60	46.00	8.40	N	9.7
0.935500	53.06	---	56.00	2.94	N	9.7
1.032000	---	34.85	46.00	11.15	N	9.7
1.039500	53.14	---	56.00	2.86	N	9.7
1.428000	---	36.29	46.00	9.71	N	9.7
1.432000	48.74	---	56.00	7.26	N	9.7
1.772000	48.61	---	56.00	7.39	N	9.7
1.820000	---	35.27	46.00	10.73	N	9.7

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.887500	---	36.77	46.00	9.23	200.0	9.000	N	9.7
0.935500	48.03	---	56.00	7.97	200.0	9.000	N	9.7
1.039500	49.24	---	56.00	6.76	200.0	9.000	N	9.7

4/21/2020

10:52:26 AM

Appendix E.2: Test Plots of Radiated Emission, Below 1GHz

Lighting mode

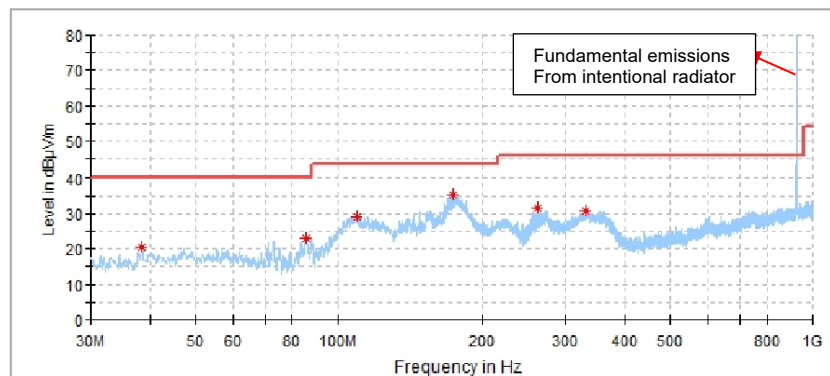
H 30-1G

1 / 1

EMC32 Report

EUT Information

EUT Name:	Floodlight Wired
Model:	5W21S8
Order No:	168154565(140)
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
38.536000	20.67	40.00	19.33	100.0	H	49.0
85.387000	23.02	40.00	16.98	200.0	H	165.0
109.831000	29.18	43.50	14.32	200.0	H	358.0
174.142000	35.16	43.50	8.34	200.0	H	282.0
261.248000	31.40	46.00	14.60	100.0	H	310.0
330.506000	30.97	46.00	15.03	100.0	H	306.0

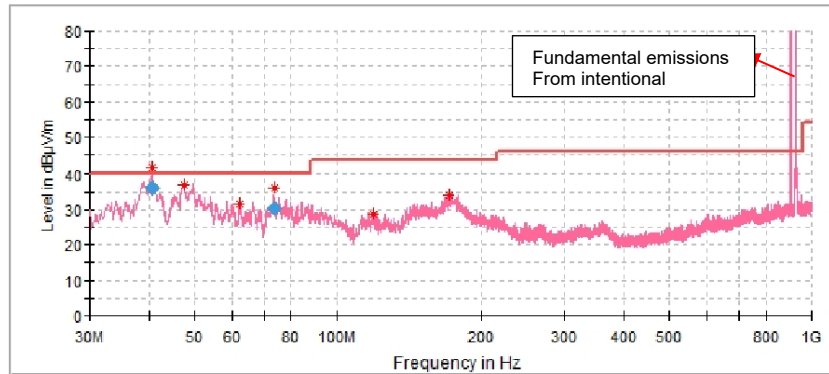
V-30-1G

1 / 1

EMC32 Report

EUT Information

EUT Name:	Floodlight Wired
Model:	5W21S8
Order No:	168154565(140)
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
40.573000	41.60	40.00	0.14	101.0	V	127.0
47.557000	36.79	40.00	3.21	100.0	V	48.0
62.301000	31.75	40.00	8.25	100.0	V	282.0
73.662000	35.94	40.00	5.80	101.0	V	342.0
119.337000	28.88	43.50	14.62	100.0	V	253.0
171.911000	33.93	43.50	9.57	200.0	V	266.0

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
40.573000	36.12	40.00	3.88	1000.0	120.000	101.0	V	127.0
73.662000	30.27	40.00	9.73	1000.0	120.000	101.0	V	342.0

Appendix E.3: Test Plots of Radiated Emission, Above 1GHz

Lighting mode

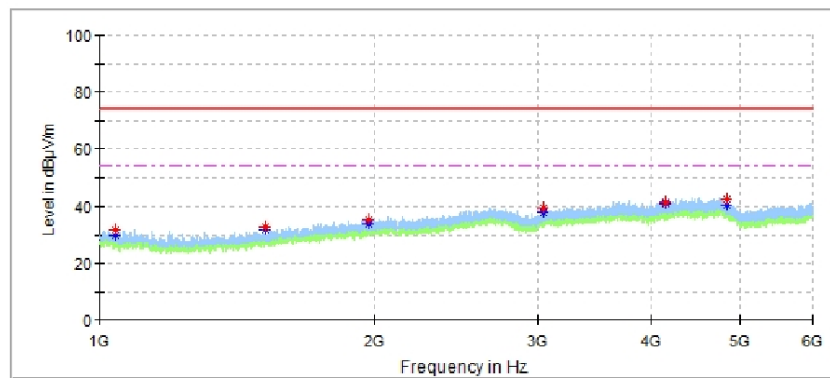
H 1-6G

1 / 1

EMC32 Report

EUT Information

EUT Name:	Floodlight Wired
Model:	5W21S8
Order No:	168154565(140)
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1043.000000	---	54.00	24.38	100.0	H	257.0
1043.000000	31.72	74.00	42.28	100.0	H	257.0
1520.000000	---	54.00	22.39	200.0	H	178.0
1520.000000	32.76	74.00	41.24	200.0	H	178.0
1972.000000	---	54.00	20.36	100.0	H	191.0
1972.000000	35.23	74.00	38.77	100.0	H	191.0
3051.000000	---	54.00	16.29	100.0	H	257.0
3051.000000	39.27	74.00	34.73	100.0	H	257.0
4144.000000	---	54.00	13.03	100.0	H	146.0
4144.000000	41.41	74.00	32.59	100.0	H	146.0
4830.500000	---	54.00	13.62	100.0	H	73.0
4830.500000	42.69	74.00	31.31	100.0	H	73.0

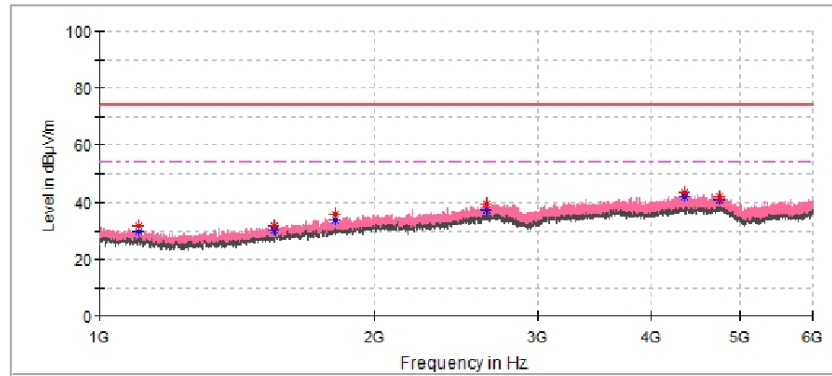
V 1-6G

1 / 1

EMC32 Report

EUT Information

EUT Name:	Floodlight Wired
Model:	5W21S8
Order No:	168154565(140)
Test Mode:	Lighting mode
Test Voltage:	AC 120V/60Hz
Test By:	Tom Guo
Review By:	Gary Chen
Remark:	



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
1104.500000	31.67	74.00	42.33	100.0	V	113.0
1104.500000	---	54.00	24.25	100.0	V	113.0
1550.500000	---	54.00	23.97	100.0	V	346.0
1551.000000	31.94	74.00	42.06	100.0	V	352.0
1813.000000	35.72	74.00	38.28	200.0	V	298.0
1813.000000	---	54.00	20.06	200.0	V	298.0
2644.000000	39.41	74.00	34.59	200.0	V	65.0
2644.500000	---	54.00	16.66	200.0	V	153.0
4338.500000	43.57	74.00	30.43	200.0	V	98.0
4338.500000	---	54.00	11.93	200.0	V	98.0
4750.500000	42.02	74.00	31.98	200.0	V	120.0
4750.500000	---	54.00	13.15	200.0	V	120.0