



TEST REPORT

ACCORDING TO IES LM-80-2015
For

Hongli Zhihui Group Co.,Ltd.

No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China

Model: HL-AS-2835DVW-2C-S1-08-PCT-HR3 (R9)

Report Type: 6000 Hours Test Report		Product Type: LED Package	
Test Engineer:	Pote Wang	<i>Pote Wang</i>	
Report Number:	RSZ161122518-10		
Test Date:	2016-11-29 to 2017-08-06		
Report Date:	2017-08-15		
Reviewed By:	Daniel Duan / EE Manager	<i>Daniel Duan</i>	
Test Facility:	Test facility was located at No.69,Pulongcun ,Puxinhu Industrial Area, Tangxia , Dongguan, Guangdong, China.		
Prepared By:	Bay Area Compliance Laboratories Corp. (Dongguan). No.69,Pulongcun ,Puxinhu Industrial Area, Tangxia , Dongguan, Guangdong, China. Tel: +86-0769-86858888 Fax:+86-0769-86858588		

Note: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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1 - General Information

1.1 Description of LED Light Sources

Sample Size:

50 PCS samples were received on 2016-11-22. The samples were numbered from 1 to 25 and 26 to 50.

Manufacturer: Hongli Zhihui Group Co.,Ltd.
Part Number: HL-AS-2835DVW-2C-S1-08-PCT-HR3 (R9)
Part Type: LED Package
Drive Level: DC 60mA
Nominal CCT: 2700K

1.2 Standards Used:

- IESNA LM-80-15: IES Approved Method for Measuring Lumen Maintenance of LED Light Sources.
- ENERGY STAR® Program Guidance Regarding LED Package, LED Array and LED Module Lumen Maintenance Performance Data Supporting Qualification of Lighting Products(This test method was not accredited by IAS)

1.3 Testing Equipment

Device	Manufacture	Model No	Serial No	Test Range	Calibration date	Calibration due date
0.3m integrating sphere	EVERFINE	Diameter 0.3m	1011119	0.3m	2017-03-09	2018-03-09
Programmable Test Power for LEDs	EVERFINE	LED300E	1008002	15V/2000mA	2017-03-03	2018-03-03
High accuracy array spectroradiometer	EVERFINE	HAAS-2000	1012016T	380-780nm	2017-03-09	2018-03-09
Standard Light Source	EVERFINE	D062	1011093	3000K	2016-09-13	2017-09-13
Precision digital stabilized DC power supply	EVERFINE	WY605-V110	G115987CJ73 21114	300VA	2017-03-03	2018-03-03
Multilayer aging machine	BACL	B2-270	20015	25°C~130°C	2017-03-03	2018-03-03
Digital CC&CV DC Power Supply	EVERFINE	WY5015	11090008	(50/15A)	2017-07-07	2018-07-07
Digital CC&CV DC Power Supply	EVERFINE	WY5015	11060002	(50/15A)	2017-07-07	2018-07-07

1.4 Drive Level

Samples are driven with a constant direct current (DC) during maintenance test, photometric and electrical measurement. The current value was regulated to within $\pm 3\%$ of the specified value of the manufacturer during maintenance test, and was within $\pm 0.5\%$ during photometric and electrical measurement test.

1.5 Ambient Conditions for Maintenance Test

For lumen maintenance test, samples within one data set, were installed on cooling boards in thermal chambers with minimal ambient airflow. The case temperature and ambient temperature was monitored by thermocouples which one was soldered to the coldest DUTs' case (TMP_{LED}) location, while the other is mounted at a distance of 5 mm above the TMP location.

During life testing, TMP_{LED} of the coldest LEDs were maintained at a temperature that was greater than or equal to 2°C below the corresponding nominal case temperature. Surrounding air was maintained at a temperature that was greater than or equal to 5°C below the corresponding nominal case temperature. Thermocouples were shielded from direct DUT optical radiation and comply with ASTM E230 Table 1 "Special Limits".

Samples were connected to DC power supply in series circuits with a constant current. The forward current was regulated to within $\pm 3\%$ of the specified value of the manufacturer.

The relative humidity within chamber was kept less than 65% during test.

For photometry measurement, the ambient temperature during test was set to $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH <65%.

1.6 Measurement Uncertainty

The uncertainty of the light output measurements is $U=1.59\%$ ($K=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=21\text{K}$ ($K=2$), at the 95% confidence level.

The uncertainty of the temperature is $U=0.8671^{\circ}\text{C}$ ($K=2$), at the 95% confidence level.

1.7 Statement of Traceability

Bay Area Compliance Laboratories Corp. (Dongguan) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

1.8 Sample Set

Data Set 1: 55°C, 60mA

Part Number: HL-AS-2835DVW-2C-S1-08-PCT-HR3 (R9)
Number of Units: 25
Case Temperature: >53°C
Ambient Temperature: >50°C
Life Test Drive Current: 60mA
Measurement Current: 60mA

Data Set 2: 105°C, 60mA

Part Number: HL-AS-2835DVW-2C-S1-08-PCT-HR3 (R9)
Number of Units: 25
Case Temperature: >103°C
Ambient Temperature: >100°C
Life Test Drive Current: 60mA
Measurement Current: 60mA

2 - Summary of Test Result

Data Set:	Sample Size	Failures Observed:	Test Interval(hours)	Test Duration(hours)	Reported TM-21 L ₇₀ Lifetime
1	25	0	1000	6000	>36000 hours
2	25	0	1000	6000	>36000 hours

Average Lumen Maintenance (Percentage of Initial Luminous Flux)

Data Set:	1000	2000	3000	4000	5000	6000
1	100.28%	100.11%	99.93%	99.72%	99.51%	99.33%
2	99.82%	99.52%	99.22%	98.88%	98.61%	98.33%

Average Color Maintenance

Data Set:	1000	2000	3000	4000	5000	6000
1	0.0003	0.0007	0.0009	0.0013	0.0015	0.0018
2	0.0005	0.0008	0.0012	0.0015	0.0018	0.0019

3 - Test Data

3.1 Data Set 1, 55°C, 60mA (Lumen Maintenance)

No.	Φ(lm)	Lumen Maintenance (%)					
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	127.9	100.23	100.08	99.92	99.61	99.37	99.30
2	128.1	100.23	100.16	99.92	99.77	99.53	99.38
3	125.9	100.32	100.24	100.16	99.92	99.68	99.52
4	131.8	100.08	99.85	99.77	99.70	99.39	99.32
5	127.2	100.39	100.24	99.92	99.76	99.61	99.29
6	131.8	100.38	100.15	99.85	99.54	99.32	99.24
7	131.4	100.30	99.85	99.77	99.54	99.24	99.01
8	130.2	100.08	99.92	99.69	99.62	99.31	99.16
9	133.2	100.30	100.15	99.92	99.70	99.55	99.40
10	129.4	100.31	100.08	99.92	99.85	99.61	99.54
11	127.2	100.39	100.24	100.08	99.76	99.53	99.14
12	129.5	100.31	100.15	99.92	99.77	99.46	99.23
13	134.4	100.37	100.22	100.15	99.93	99.70	99.33
14	131.1	100.15	100.08	99.85	99.62	99.47	99.24
15	126.5	100.32	100.16	100.08	99.92	99.84	99.68
16	132.5	100.38	100.15	99.92	99.70	99.40	99.25
17	128.1	100.39	100.23	100.08	99.77	99.53	99.38
18	129.4	100.31	100.15	99.85	99.61	99.46	99.38
19	134.6	100.37	100.22	99.93	99.63	99.41	99.26
20	126.9	100.32	100.24	100.16	99.84	99.68	99.45
21	131.7	100.15	99.77	99.70	99.54	99.32	99.09
22	131.0	100.23	100.08	99.92	99.77	99.47	99.31
23	129.4	100.39	100.23	100.15	99.85	99.77	99.69
24	133.2	100.08	99.85	99.70	99.55	99.40	99.25
25	122.2	100.33	100.16	99.92	99.84	99.67	99.43
Ave.	129.8	100.28	100.11	99.93	99.72	99.51	99.33
Med.	129.5	100.31	100.15	99.92	99.76	99.47	99.31
st dev	2.9426	0.1039	0.1435	0.1449	0.1245	0.1567	0.1643
Min.	122.2	100.08	99.77	99.69	99.54	99.24	99.01
Max.	134.6	100.39	100.24	100.16	99.93	99.84	99.69

TM-21 Projection:

Test Duration: 6000 hours

Failures Observed: 0

α: 1.935E-06

β: 1.005

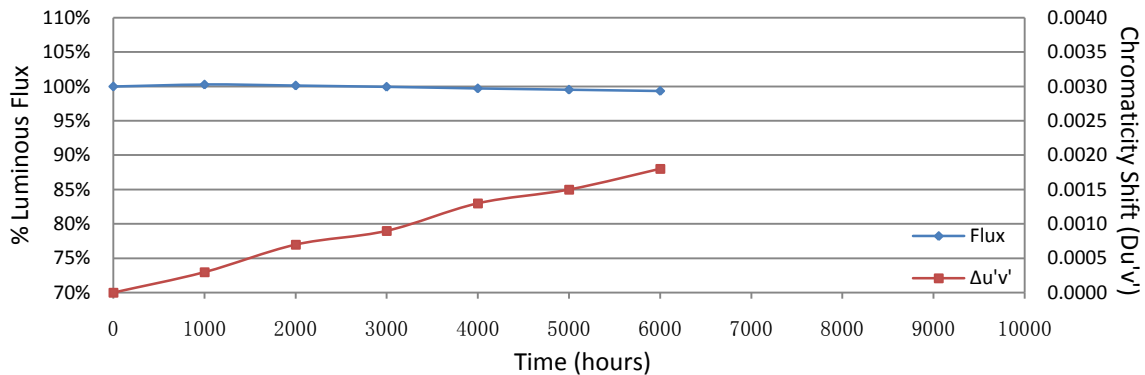
Reported L₇₀: >36000 hours

3.2 Data Set 1, 55°C, 60mA (Forward Voltage)

No.	Forward Voltage (V)						
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	18.79	18.76	18.69	18.74	18.70	18.67	18.75
2	18.87	18.86	18.80	18.83	18.81	18.76	18.78
3	18.78	18.78	18.71	18.74	18.71	18.68	18.69
4	18.93	18.92	18.86	18.89	18.88	18.83	18.84
5	18.68	18.68	18.61	18.64	18.63	18.58	18.59
6	18.87	18.88	18.82	18.85	18.83	18.79	18.79
7	18.87	18.87	18.81	18.84	18.82	18.78	18.78
8	18.71	18.72	18.65	18.67	18.67	18.62	18.63
9	18.72	18.74	18.67	18.69	18.68	18.63	18.65
10	18.77	18.79	18.71	18.73	18.72	18.68	18.70
11	18.82	18.85	18.77	18.79	18.78	18.73	18.75
12	18.96	19.00	18.91	18.93	18.91	18.87	18.88
13	18.72	18.75	18.68	18.68	18.67	18.64	18.65
14	19.09	19.11	19.04	19.05	19.02	18.99	19.00
15	18.85	18.88	18.80	18.81	18.80	18.77	18.76
16	18.85	18.88	18.79	18.81	18.80	18.77	18.76
17	18.76	18.80	18.71	18.73	18.72	18.69	18.69
18	18.90	18.92	18.85	18.86	18.87	18.83	18.83
19	18.71	18.74	18.66	18.67	18.66	18.66	18.63
20	18.74	18.78	18.70	18.71	18.71	18.68	18.66
21	19.02	19.05	18.96	18.97	18.98	18.95	18.94
22	18.94	18.97	18.88	18.90	18.90	18.87	18.86
23	18.94	18.96	18.90	18.90	18.90	18.88	18.87
24	18.79	18.82	18.74	18.75	18.75	18.72	18.73
25	18.79	18.83	18.75	18.78	18.75	18.73	18.65
Ave.	18.83	18.85	18.78	18.80	18.79	18.75	18.75
Med.	18.82	18.85	18.77	18.79	18.78	18.73	18.75
st dev	0.1049	0.1070	0.1061	0.1039	0.1046	0.1053	0.1045
Min.	18.68	18.68	18.61	18.64	18.63	18.58	18.59
Max.	19.09	19.11	19.04	19.05	19.02	18.99	19.00

3.3 Data Set 1, 55°C, 60mA (Chromaticity Shift)

No.	u'	v'	CCT(K)	Chromaticity Shift ($\Delta u'v'$)					
				0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs
1	0.2572	0.5289	2806	0.0003	0.0008	0.0010	0.0012	0.0015	0.0019
2	0.2605	0.5323	2721	0.0004	0.0007	0.0010	0.0011	0.0012	0.0017
3	0.2585	0.5296	2775	0.0004	0.0007	0.0010	0.0014	0.0013	0.0018
4	0.2553	0.5308	2839	0.0003	0.0007	0.0009	0.0014	0.0015	0.0016
5	0.2571	0.5279	2812	0.0002	0.0006	0.0009	0.0013	0.0015	0.0015
6	0.2568	0.5323	2799	0.0004	0.0007	0.0009	0.0013	0.0015	0.0014
7	0.2573	0.5278	2808	0.0004	0.0009	0.0011	0.0015	0.0018	0.0021
8	0.2577	0.5287	2796	0.0006	0.0010	0.0014	0.0019	0.0022	0.0026
9	0.2557	0.5299	2833	0.0003	0.0006	0.0007	0.0012	0.0013	0.0016
10	0.2567	0.5279	2822	0.0003	0.0007	0.0009	0.0013	0.0015	0.0019
11	0.2575	0.5290	2799	0.0002	0.0006	0.0009	0.0013	0.0015	0.0019
12	0.2577	0.5318	2781	0.0001	0.0004	0.0007	0.0011	0.0012	0.0015
13	0.2561	0.5293	2827	0.0001	0.0005	0.0009	0.0012	0.0014	0.0017
14	0.2568	0.5320	2801	0.0003	0.0007	0.0009	0.0013	0.0016	0.0018
15	0.2585	0.5305	2770	0.0001	0.0005	0.0006	0.0010	0.0011	0.0015
16	0.2561	0.5304	2823	0.0004	0.0007	0.0010	0.0014	0.0017	0.0019
17	0.2582	0.5289	2784	0.0001	0.0004	0.0009	0.0012	0.0015	0.0016
18	0.2567	0.5281	2819	0.0002	0.0006	0.0010	0.0014	0.0015	0.0018
19	0.2599	0.5320	2735	0.0003	0.0007	0.0010	0.0014	0.0017	0.0021
20	0.2605	0.5283	2738	0.0002	0.0007	0.0009	0.0012	0.0014	0.0017
21	0.2583	0.5310	2773	0.0003	0.0007	0.0011	0.0014	0.0015	0.0018
22	0.2571	0.5322	2793	0.0003	0.0006	0.0009	0.0013	0.0014	0.0016
23	0.2572	0.5276	2812	0.0004	0.0007	0.0009	0.0013	0.0014	0.0017
24	0.2586	0.5306	2768	0.0002	0.0006	0.0009	0.0013	0.0015	0.0017
25	0.2577	0.5291	2794	0.0003	0.0007	0.0009	0.0012	0.0013	0.0016
Ave.	0.2576	0.5299	2793	0.0003	0.0007	0.0009	0.0013	0.0015	0.0018
Med.	0.2573	0.5296	2799	0.0003	0.0007	0.0009	0.0013	0.0015	0.0017
st dev	0.0013	0.0016	30.4321	0.0001	0.0001	0.0001	0.0002	0.0002	0.0003
Min.	0.2553	0.5276	2721	0.0001	0.0004	0.0006	0.0010	0.0011	0.0014
Max.	0.2605	0.5323	2839	0.0006	0.0010	0.0014	0.0019	0.0022	0.0026



3.4 Data Set 2, 105°C, 60mA (Lumen Maintenance)

No.	Φ(lm)	Lumen Maintenance (%)					
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	136.5	99.85	99.56	99.34	99.12	98.83	98.68
27	129.5	99.77	99.54	99.31	99.00	98.76	98.53
28	124.3	99.84	99.36	99.03	98.79	98.47	98.15
29	133.0	99.85	99.47	99.02	98.72	98.35	98.20
30	127.3	99.76	99.45	99.14	98.74	98.43	98.27
31	130.7	99.77	99.46	99.08	98.85	98.55	98.09
32	127.7	99.84	99.45	99.14	98.67	98.43	98.04
33	130.3	99.92	99.62	99.39	98.93	98.70	98.39
34	128.3	99.92	99.53	99.22	99.06	98.67	98.36
35	132.4	99.77	99.47	98.94	98.56	98.34	98.19
36	129.8	99.92	99.69	99.46	99.08	98.92	98.69
37	130.0	99.85	99.62	99.31	99.00	98.62	98.38
38	127.1	99.84	99.53	99.37	99.13	98.90	98.66
39	128.6	99.84	99.46	99.14	98.91	98.68	98.37
40	127.2	99.76	99.45	99.37	98.98	98.58	98.27
41	128.6	99.69	99.46	99.30	98.99	98.83	98.52
42	129.9	99.85	99.38	99.00	98.77	98.69	98.23
43	134.2	99.78	99.63	99.18	98.66	98.36	98.06
44	130.7	99.77	99.46	99.23	99.01	98.62	98.39
45	132.4	99.85	99.62	99.32	99.02	98.64	98.41
46	132.4	99.92	99.55	99.17	98.72	98.41	98.11
47	128.7	99.77	99.69	99.38	98.91	98.60	98.29
48	129.0	99.84	99.53	99.30	98.76	98.53	98.22
49	128.9	99.69	99.46	99.07	98.76	98.53	98.14
50	128.0	99.84	99.61	99.38	98.98	98.83	98.52
Ave.	129.8	99.82	99.52	99.22	98.88	98.61	98.33
Med.	129.5	99.84	99.53	99.23	98.91	98.62	98.29
st dev	2.6042	0.0661	0.0895	0.1439	0.1591	0.1731	0.1932
Min.	124.3	99.69	99.36	98.94	98.56	98.34	98.04
Max.	136.5	99.92	99.69	99.46	99.13	98.92	98.69

TM-21 Projection:

Test Duration: 6000 hours

Failures Observed: 0

α: 3.034E-06

β: 1.001

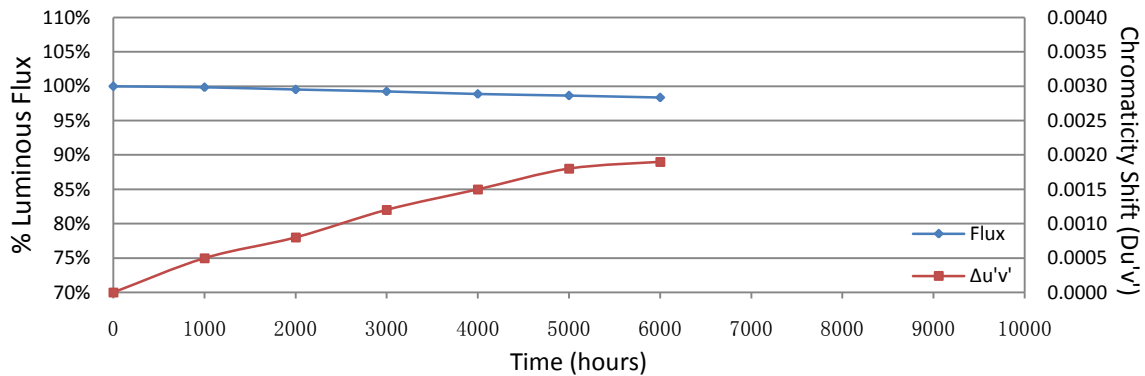
Reported L₇₀: >36000 hours

3.5 Data Set 2, 105°C, 60mA (Forward Voltage)

No.	Forward Voltage (V)						
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	18.70	18.76	18.68	18.70	18.69	18.67	18.65
27	18.85	18.90	18.82	18.83	18.82	18.80	18.78
28	18.82	18.86	18.79	18.80	18.78	18.77	18.76
29	18.63	18.67	18.60	18.60	18.59	18.58	18.57
30	18.85	18.89	18.81	18.81	18.80	18.79	18.79
31	18.85	18.89	18.80	18.81	18.80	18.80	18.80
32	18.81	18.84	18.76	18.77	18.76	18.77	18.76
33	18.72	18.75	18.68	18.68	18.67	18.68	18.67
34	18.69	18.72	18.66	18.67	18.65	18.65	18.64
35	18.84	18.89	18.80	18.81	18.80	18.80	18.78
36	18.76	18.80	18.72	18.72	18.71	18.72	18.70
37	18.76	18.79	18.72	18.74	18.71	18.71	18.70
38	18.93	18.96	18.88	18.91	18.87	18.87	18.86
39	18.97	19.00	18.92	18.94	18.91	18.90	18.91
40	18.76	18.79	18.72	18.74	18.72	18.71	18.71
41	18.76	18.81	18.72	18.75	18.72	18.71	18.71
42	18.85	18.89	18.81	18.83	18.80	18.80	18.78
43	18.68	18.71	18.66	18.65	18.62	18.65	18.61
44	19.07	19.11	19.02	19.04	19.01	19.03	18.99
45	18.77	18.81	18.74	18.77	18.72	18.73	18.70
46	18.93	18.97	18.89	18.91	18.88	18.88	18.86
47	19.03	19.05	18.98	19.00	18.96	18.96	18.94
48	18.80	18.82	18.75	18.78	18.74	18.75	18.72
49	18.96	18.97	18.90	18.93	18.88	18.89	18.87
50	18.95	18.96	18.89	18.93	18.88	18.89	18.86
Ave.	18.83	18.86	18.79	18.80	18.78	18.78	18.76
Med.	18.82	18.86	18.79	18.80	18.78	18.77	18.76
st dev	0.1129	0.1095	0.1054	0.1116	0.1051	0.1063	0.1048
Min.	18.63	18.67	18.60	18.60	18.59	18.58	18.57
Max.	19.07	19.11	19.02	19.04	19.01	19.03	18.99

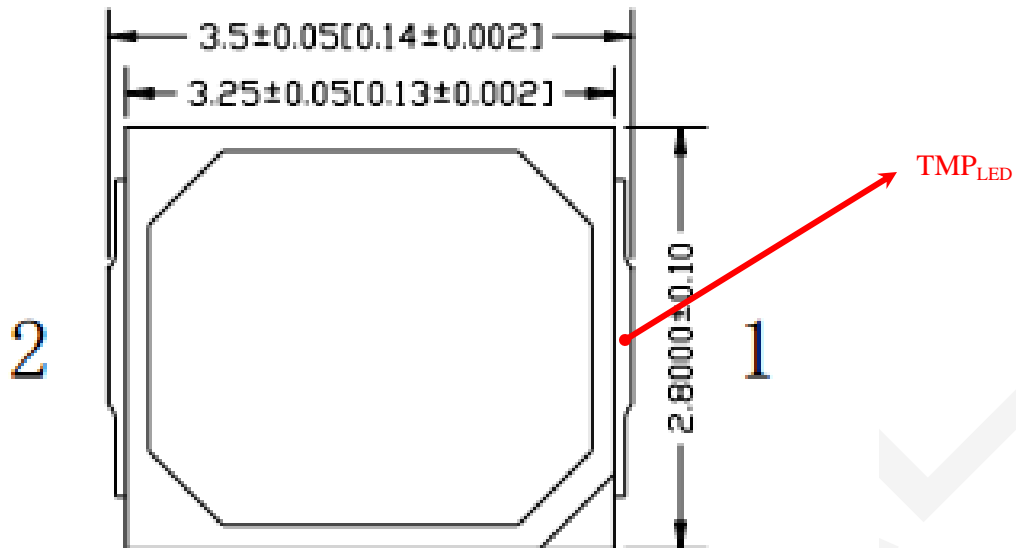
3.6 Data Set 2, 105°C, 60mA (Chromaticity Shift)

No.	u'	v'	CCT(K)	Chromaticity Shift ($\Delta u'v'$)					
				0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs
26	0.2594	0.5310	2749	0.0007	0.0009	0.0014	0.0017	0.0018	0.0021
27	0.2581	0.5319	2774	0.0004	0.0007	0.0010	0.0013	0.0015	0.0015
28	0.2587	0.5315	2763	0.0004	0.0006	0.0009	0.0013	0.0015	0.0016
29	0.2586	0.5360	2746	0.0006	0.0007	0.0011	0.0015	0.0017	0.0018
30	0.2572	0.5290	2805	0.0004	0.0006	0.0010	0.0014	0.0016	0.0017
31	0.2568	0.5289	2815	0.0003	0.0004	0.0009	0.0013	0.0015	0.0013
32	0.2597	0.5288	2753	0.0005	0.0007	0.0012	0.0015	0.0019	0.0017
33	0.2549	0.5315	2844	0.0006	0.0007	0.0011	0.0015	0.0019	0.0017
34	0.2584	0.5284	2783	0.0005	0.0007	0.0010	0.0015	0.0018	0.0021
35	0.2579	0.5341	2767	0.0006	0.0010	0.0015	0.0019	0.0023	0.0024
36	0.2572	0.5305	2799	0.0006	0.0008	0.0011	0.0015	0.0017	0.0019
37	0.2574	0.5279	2807	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021
38	0.2586	0.5295	2773	0.0004	0.0008	0.0011	0.0014	0.0017	0.0018
39	0.2595	0.5302	2751	0.0005	0.0009	0.0012	0.0016	0.0020	0.0021
40	0.2574	0.5290	2801	0.0005	0.0008	0.0012	0.0016	0.0018	0.0019
41	0.2584	0.5270	2788	0.0005	0.0008	0.0011	0.0014	0.0017	0.0019
42	0.2564	0.5298	2818	0.0004	0.0007	0.0012	0.0016	0.0018	0.0020
43	0.2561	0.5311	2819	0.0006	0.0009	0.0013	0.0017	0.0020	0.0022
44	0.2572	0.5323	2790	0.0004	0.0008	0.0011	0.0015	0.0017	0.0019
45	0.2560	0.5294	2830	0.0004	0.0007	0.0011	0.0015	0.0017	0.0019
46	0.2549	0.5277	2862	0.0006	0.0008	0.0013	0.0016	0.0020	0.0022
47	0.2568	0.5316	2802	0.0004	0.0007	0.0010	0.0014	0.0017	0.0018
48	0.2546	0.5285	2866	0.0007	0.0008	0.0014	0.0018	0.0022	0.0024
49	0.2593	0.5320	2748	0.0007	0.0011	0.0013	0.0017	0.0020	0.0021
50	0.2575	0.5306	2792	0.0004	0.0007	0.0010	0.0014	0.0017	0.0018
Ave.	0.2575	0.5303	2794	0.0005	0.0008	0.0012	0.0015	0.0018	0.0019
Med.	0.2574	0.5302	2792	0.0005	0.0008	0.0011	0.0015	0.0018	0.0019
st dev	0.0014	0.0021	34.3730	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
Min.	0.2546	0.5270	2746	0.0003	0.0004	0.0009	0.0013	0.0015	0.0013
Max.	0.2597	0.5360	2866	0.0007	0.0011	0.0015	0.0019	0.0023	0.0024



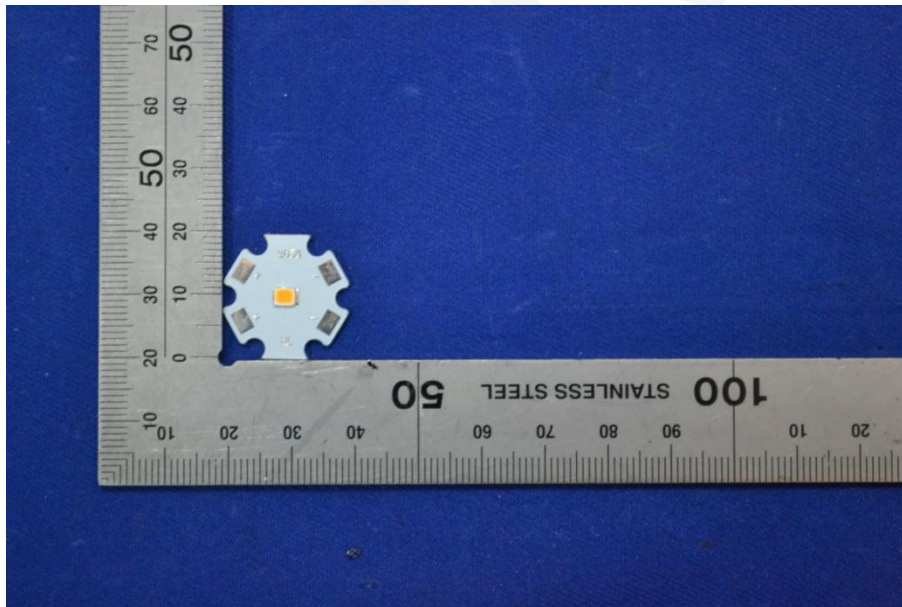
4 - EUT Photo

4.1 Mechanical Dimensions



All dimensions are in millimeter

4.2 EUT Photo



*****END OF REPORT*****