TEST REPORT

According to ANSI/IES LM-80-15
For

Hongli Zhihui Group Co.,Ltd. Guangzhou Branch

Room 316, Building 2, No.1, Xianke Yi Road, Huadong Town, Huadu District, Guangzhou, China

Model: HL-AS-2835HW-2C-S1-08-PCT-HR5

Report Type: 6000 Hours Test Report	**Product Type:** LED Package
Test Engineer:	Pote Wang
Report Number:	RSZ181027501-10-M1
Test Date:	2018-10-27 to 2019-07-04
Report Date:	2019-08-07
Reviewed By:	Bill Xiong / EE Engineer
Revised Note:	The previous report RSZ181027501-10 is replaced by this report on 2019-08-07
Test Facility:	Test facility was located at No.69,Pulongcun ,Puxinhu Industrial Area, Tangxia , Dongguan, Guangdong, China.
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Accreditation:	The IAS Accreditation Number TL-460.

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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HL-AS-2835HW-S1-08L-PCT-HR5(R9)	90	2700K	1	1	0.0510	861.11	150	/	150
HL-AS-2835DW-S1-08-PCT-HR5	90	2700K	1	1	0.0510	861.11	150	/	150
HL-AS-2835DW-S1-08-PCT-HR5(R9)	90	2700K	1	1	0.0510	861.11	150	/	150
HL-AS-2835DW-S1-08L-PCT-HR5	90	2700K	1	1	0.0510	861.11	150	/	150
HL-AS-2835DW-S1-08L-PCT-HR5(R9)	90	2700K	1	1	0.0510	861.11	150	/	150
HL-AS-2835D90W-2C-S1-08-PCT-HR5-CS-KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835D90W-2C-S1-08-PCT-HR5 -KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835D90W-2C-S1-08L-PCT-HR5-CS-KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835D90W-2C-S1-08L-PCT-HR5 -KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835DW-2C-S1-08-PCT-HR5-CS-KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835DW-2C-S1-08-PCT-HR5 -KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835DW-2C-S1-08L-PCT-HR5-CS-KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
HL-AS-2835DW-2C-S1-08L-PCT-HR5 -KY	90	2700K	2	1	0.1021	301.84	150	0.15	150
SL-*D2835FTA-21EA*	90	2700K	2	1	0.1021	861.11	150	0.15	150
SL-*D2835FTA-21EA*H	90	2700K	2	1	0.1021	861.11	150		

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No.69, Pulongcun, Puxinhu Industrial Area Tangxia ,
Dongguan, Guangdong, China.
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1.8 Sample Set

Data Set 1: 85°C, 150mA

Part Number:	HL-AS-2835HW-2C-S1-08-PCT-HR5
Number of Units:	25
Case Temperature:	>83°C
Ambient Temperature:	>80°C
Life Test Drive Current:	150mA
Measurement Current:	150mA

Data Set 2: 105°C,150mA

Part Number:	HL-AS-2835HW-2C-S1-08-PCT-HR5
Number of Units:	25
Case Temperature:	>103°C
Ambient Temperature:	>100°C
Life Test Drive Current:	150mA
Measurement Current:	150mA

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3 - Test Data

3.1 Data Set 1, 85°C, 150mA (Lumen Maintenance)

No.		Lumen Maintenance (%)					
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	112.1	99.91	99.73	99.46	99.38	98.93	98.75
2	108.8	100.18	99.82	99.45	99.26	99.08	98.62
3	112.8	100.09	99.91	99.73	99.47	99.29	98.94
4	111.8	100.18	99.91	99.55	99.28	99.02	98.75
5	111.9	100.09	100.00	99.91	99.64	99.37	99.29
6	113.0	100.35	100.09	99.82	99.73	99.56	99.38
7	109.9	100.18	100.09	100.00	99.73	99.45	99.09
8	110.5	100.27	99.82	99.64	99.55	99.37	99.19
9	111.5	100.27	100.09	99.82	99.55	99.37	99.01
10	110.7	100.18	100.00	99.73	99.64	99.19	99.01
11	111.7	100.18	100.09	99.91	99.64	99.37	99.10
12	112.0	99.82	99.64	99.38	99.29	99.11	98.84
13	110.6	100.27	100.09	100.00	99.91	99.73	99.37
14	111.1	100.18	100.00	99.91	99.82	99.55	99.28
15	109.6	99.82	99.54	99.09	98.81	98.63	98.36
16	112.0	99.91	99.46	99.20	98.93	98.66	98.48
17	110.8	100.09	99.64	99.37	99.10	98.83	98.47
18	111.6	99.82	99.46	99.10	98.84	98.66	98.48
19	112.5	100.09	99.82	99.47	99.02	98.93	98.76
20	111.7	99.91	99.73	99.64	99.37	99.10	98.75
21	111.7	100.09	99.82	99.55	99.46	99.28	99.19
22	111.6	100.09	99.91	99.82	99.46	99.28	98.84
23	112.2	100.27	100.09	100.00	99.64	99.20	99.02
24	111.7	99.91	99.64	99.37	99.10	98.84	98.48
25	112.3	99.91	99.82	99.73	99.55	99.29	99.11
Avg.	111.4	100.08	99.85	99.63	99.41	99.16	98.90
Med.	111.7	100.09	99.82	99.64	99.46	99.20	98.94
st dev	1.0	0.16	0.20	0.28	0.30	0.30	0.31
Min.	108.8	99.82	99.46	99.09	98.81	98.63	98.36
Max.	113.0	100.35	100.09	100.00	99.91	99.73	99.38

3.2 Data Set 1, 85°C, 150mA (Forward Voltage)

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3.4 Data Set 2, 105°C, 150mA (Lumen Maintenance)

No.		Lumen Maintenance (%)					
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	110.9	99.91	99.64	99.37	99.19	99.01	98.74
27	110.9	99.91	99.64	99.19	99.10	98.74	98.38
28	111.8	100.00	99.64	99.37	98.93	98.57	98.03
29	111.4	100.18	99.82	99.37	99.01	98.65	98.20
30	110.8	100.18	99.91	99.46	99.10	98.74	98.29
31	111.5	99.91	99.55	99.37	99.10	99.01	98.65
32	110.7	99.82	99.55	99.28	98.92	98.64	98.28
33	109.6	100.27	99.82	99.45	99.18	98.91	98.54
34	111.7	99.91	99.55	99.10	98.66	98.48	98.39
35	110.2	100.00	99.64	99.27	98.91	98.55	98.19
36	111.3	99.91	99.73	99.46	99.01	98.56	98.29
37	109.9	100.09	99.64	99.55	99.18	98.91	98.54
38	108.3	99.91	99.72	99.26	98.98	98.71	98.34
39	111.1	100.18	99.91	99.73	99.46	99.19	99.01
40	108.3	100.18	100.00	99.91	99.82	99.54	99.26
41	111.2	99.73	99.37	99.01	98.65	98.38	98.02
42	111.9	99.82	99.55	99.11	98.84	98.57	98.30
43	110.5	100.09	99.73	99.64	99.28	98.73	98.46
44	110.2	100.09	99.73	99.36	99.09	98.82	98.46
45	112.0	100.09	99.82	99.38	98.93	98.75	98.39
46	112.0	99.91	99.73	99.46	99.20	98.84	98.66
47	111.0	99.91	99.64	99.55	99.28	98.92	98.83
48	108.9	100.28	100.00	99.54	99.36	98.99	98.62
49	111.4	100.09	99.73	99.64	99.46	99.28	98.92
50	111.3	100.09	99.82	99.55	99.19	98.83	98.56
Avg.	110.8	100.02	99.72	99.42	99.11	98.81	98.49

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3.5 Data Set 2, 105°C, 150mA (Forward Voltage)

No.	Forward Voltage (V)						
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	6.431	6.430	6.428	6.424	6.420	6.422	6.416
27	6.368	6.410	6.389	6.386	6.380	6.385	6.385
28	6.352	6.370	6.369	6.369	6.367	6.367	6.361
29	6.359	6.372	6.365	6.367	6.365	6.373	6.361
30	6.369	6.313	6.311	6.315	6.319	6.311	6.307
31	6.297	6.319	6.319	6.314	6.314	6.314	6.308

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3.6 Data Set 2, 105°C, 150mA (Chromaticity Shift)

No.			CCT(K)						
	0hr(Initial)			1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	0.2624	0.5307	2689	0.0002	0.0004	0.0006	0.0009	0.0011	0.0014

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