



Test Report Of ANSI/IES LM-80-21

Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources

Report Number..... : N01A25100554L00101

Client..... : SHENZHEN SMALITE SEMICONDUCTOR CO.,LTD.

Address..... : 8th and 9th Floor, Building 6, Zhongyuntai Technology Industrial Park, Songbai Road, Shiyan Street, Bao'an District, Shenzhen City

Test Model..... : SL-JF28-1820N95-CL

Brand Name..... : N/A

Testing Laboratory... : Guangdong GTG Testing Technology Co., Ltd.

Address..... : 1-2/F., Building A, and 1/F., Building B, No.11, & Room 102, Unit 1, and Room 101 Unit 2, Building 1, No.9, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, China

Testing Location..... : As above

Date of receipt..... : 2023-11-14

Date of test : 2023-11-15 to 2025-11-24

Date of report..... : 2025-12-09

Tested by:

Allen Chen/ Test Engineer

Checked by:

Will Yang/ Project Engineer



Note 1: 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 use in part without prior written consent from Guangdong GTG Testing Technology Co., Ltd. This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Note 2: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ENERGY STAR® LM-80 Cover Sheet**Administrative Information**

Tested subcomponent series: N/A

Tested subcomponent model number: SL-JF28-1820N95-CL

DUT IdentificationDUT manufacture's name: SHENZHEN SMALITE SEMICONDUCTOR
CO.,LTD.

DUT identification,e.g., model number: SL-JF28-1820N95-CL

Description of DUT,including if the DUT is an LED
package or module: LED COB**DUT Characteristics**

Total input power(W): 200 W

Average current density per LED die(mA/mm²): 691 mA/mm²Average power density per LED die(W/mm²): 2.19 W/mm²Representative CRI(Ra) of the tested sample set: 95
(Indicate whether the reported value is the mean or
Median value of the sample set,or per unit)

Minimum die edge to die edge spacing: 0.1 mm

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1. General Information

1.1 Description of LED Light Sources

Sample Size:

75Pcs samples were received on 2023-11-14, the samples were numbered from S1 to S75.
(Sample No. A25100554 001 to A25100554 075 will be replaced with S1 to S75.)

Manufacture: SHENZHEN SMALITE SEMICONDUCTOR CO.,LTD.

Part Number: SL-JF28-1820N95-CL

Part Type: LED Package

Drive Level: DC 3500mA

Nominal CCT: 2700K

Power: 200W

CRI: 95

Sampling Method:

LED samples for IESNA LM-80 testing consist of units built from three manufacturing lots with each manufacturing lot built from different wafer lots built on non-consecutive days.

These manufacturing lots are picked to represent a wide parametric distribution.

Family products covered by this report:

According to ENERGY STAR® Requirements for the Use of LM-80 Data, the following products can be covered by this report base on the information and declaration provided by manufacturer. The information of these models shows that the covered products meet all section 4 requirements of ENERGY STAR® Requirements for the Use of LM-80 Data (September 28, 2017)

This report covers the following models:

Model name	CCT (K)	Number of dies	Current density per die (mA/mm ²)	Current (mA)	Power density (W/mm ²)	Power (W)	Die Spacing (mm)	Current of die (mA)
Test Model SL-JF28-1820N95-CL	2700	360	691	3500	0.25	200	0.1	175.00
SL-JFXX-1201XXX-XX	2700	12	691	225	0.25	9	0.1	225.00
SL-JFXX-1202XXX-XX	2700	24	691	450	0.25	18	0.1	225.00
SL-JFXX-1203XXX-XX	2700	36	691	675	0.25	27	0.1	225.00
SL-JFXX-1204XXX-XX	2700	48	691	900	0.25	36	0.1	225.00
SL-JFXX-1205XXX-XX	2700	60	691	1125	0.25	45	0.1	225.00
SL-JFXX-1206XXX-XX	2700	72	691	1350	0.25	54	0.1	225.00
SL-JFXX-1207XXX-XX	2700	84	691	1575	0.25	63	0.1	225.00
SL-JFXX-1208XXX-XX	2700	96	691	1800	0.25	72	0.1	225.00
SL-JFXX-1209XXX-XX	2700	108	691	2025	0.25	81	0.1	225.00
SL-JFXX-1210XXX-XX	2700	120	691	2250	0.25	90	0.1	225.00
SL-JFXX-1211XXX-XX	2700	132	691	2475	0.25	99	0.1	225.00
SL-JFXX-1212XXX-XX	2700	144	691	2700	0.25	108	0.1	225.00
SL-JFXX-1213XXX-XX	2700	156	691	2925	0.25	117	0.1	225.00

Model name	CCT (K)	Number of dies	Current density per die (mA/mm ²)	Current (mA)	Power density (W/mm ²)	Power (W)	Die Spacing (mm)	Current of die (mA)
SL-JFXX-0403XXX-XX	2700	12	691	675	0.25	27	0.1	225.00
SL-JFXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-JRXX-1201XXX-XX	2700	12	691	225	0.25	9	0.1	225.00
SL-JRXX-1202XXX-XX	2700	24	691	450	0.25	18	0.1	225.00
SL-JRXX-1203XXX-XX	2700	36	691	675	0.25	27	0.1	225.00
SL-JRXX-1204XXX-XX	2700	48	691	900	0.25	36	0.1	225.00
SL-JRXX-1205XXX-XX	2700	60	691	1125	0.25	45	0.1	225.00
SL-JRXX-1206XXX-XX	2700	72	691	1350	0.25	54	0.1	225.00
SL-JRXX-1207XXX-XX	2700	84	691	1575	0.25	63	0.1	225.00
SL-JRXX-1208XXX-XX	2700	96	691	1800	0.25	72	0.1	225.00
SL-JRXX-1209XXX-XX	2700	108	691	2025	0.25	81	0.1	225.00
SL-JRXX-1210XXX-XX	2700	120	691	2250	0.25	90	0.1	225.00
SL-JRXX-1211XXX-XX	2700	132	691	2475	0.25	99	0.1	225.00
SL-JRXX-1212XXX-XX	2700	144	691	2700	0.25	108	0.1	225.00
SL-JRXX-1213XXX-XX	2700	156	691	2925	0.25	117	0.1	225.00
SL-JRXX-0403XXX-XX	2700	12	691	675	0.25	27	0.1	225.00
SL-JRXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-JLXX-1201XXX-XX	2700	12	691	225	0.25	9	0.1	225.00
SL-JLXX-1202XXX-XX	2700	24	691	450	0.25	18	0.1	225.00
SL-JLXX-1203XXX-XX	2700	36	691	675	0.25	27	0.1	225.00
SL-JLXX-1204XXX-XX	2700	48	691	900	0.25	36	0.1	225.00
SL-JLXX-1205XXX-XX	2700	60	691	1125	0.25	45	0.1	225.00
SL-JLXX-1206XXX-XX	2700	72	691	1350	0.25	54	0.1	225.00
SL-JLXX-1207XXX-XX	2700	84	691	1575	0.25	63	0.1	225.00
SL-JLXX-1208XXX-XX	2700	96	691	1800	0.25	72	0.1	225.00
SL-JLXX-1209XXX-XX	2700	108	691	2025	0.25	81	0.1	225.00
SL-JLXX-1210XXX-XX	2700	120	691	2250	0.25	90	0.1	225.00
SL-JLXX-1211XXX-XX	2700	132	691	2475	0.25	99	0.1	225.00
SL-JLXX-1212XXX-XX	2700	144	691	2700	0.25	108	0.1	225.00
SL-JLXX-1213XXX-XX	2700	156	691	2925	0.25	117	0.1	225.00
SL-JLXX-0403XXX-XX	2700	12	691	675	0.25	27	0.1	225.00
SL-JLXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-JMXX-1201XXX-XX	2700	12	691	225	0.25	9	0.1	225.00
SL-JMXX-1202XXX-XX	2700	24	691	450	0.25	18	0.1	225.00
SL-JMXX-1203XXX-XX	2700	36	691	675	0.25	27	0.1	225.00
SL-JMXX-1204XXX-XX	2700	48	691	900	0.25	36	0.1	225.00

Model name	CCT (K)	Number of dies	Current density per die (mA/mm ²)	Current (mA)	Power density (W/mm ²)	Power (W)	Die Spacing (mm)	Current of die (mA)
SL-JMXX-1205XXX-XX	2700	60	691	1125	0.25	45	0.1	225.00
SL-JMXX-1206XXX-XX	2700	72	691	1350	0.25	54	0.1	225.00
SL-JMXX-1207XXX-XX	2700	84	691	1575	0.25	63	0.1	225.00
SL-JMXX-1208XXX-XX	2700	96	691	1800	0.25	72	0.1	225.00
SL-JMXX-1209XXX-XX	2700	108	691	2025	0.25	81	0.1	225.00
SL-JMXX-1210XXX-XX	2700	120	691	2250	0.25	90	0.1	225.00
SL-JMXX-1211XXX-XX	2700	132	691	2475	0.25	99	0.1	225.00
SL-JMXX-1212XXX-XX	2700	144	691	2700	0.25	108	0.1	225.00
SL-JMXX-1213XXX-XX	2700	156	691	2925	0.25	117	0.1	225.00
SL-JMXX-0403XXX-XX	2700	12	691	675	0.25	27	0.1	225.00
SL-JMXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-CFXX-1201XXX-XX	2700	12	691	225	0.25	9	0.1	225.00
SL-CFXX-1202XXX-XX	2700	24	691	450	0.25	18	0.1	225.00
SL-CFXX-1203XXX-XX	2700	36	691	675	0.25	27	0.1	225.00
SL-CFXX-1204XXX-XX	2700	48	691	900	0.25	36	0.1	225.00
SL-CFXX-1205XXX-XX	2700	60	691	1125	0.25	45	0.1	225.00
SL-CFXX-1206XXX-XX	2700	72	691	1350	0.25	54	0.1	225.00
SL-CFXX-1207XXX-XX	2700	84	691	1575	0.25	63	0.1	225.00
SL-CFXX-1208XXX-XX	2700	96	691	1800	0.25	72	0.1	225.00
SL-CFXX-1209XXX-XX	2700	108	691	2025	0.25	81	0.1	225.00
SL-CFXX-1210XXX-XX	2700	120	691	2250	0.25	90	0.1	225.00
SL-CFXX-1211XXX-XX	2700	132	691	2475	0.25	99	0.1	225.00
SL-CFXX-1212XXX-XX	2700	144	691	2700	0.25	108	0.1	225.00
SL-CFXX-1213XXX-XX	2700	156	691	2925	0.25	117	0.1	225.00
SL-CFXX-0403XXX-XX	2700	12	691	675	0.25	27	0.1	225.00
SL-CF1816-W80	2700	72	691	450	0.25	16	0.1	75.00
SL-CF1820-W80	2700	84	691	550	0.25	19	0.1	78.57
SL-CF1830-W80	2700	120	691	800	0.25	28	0.1	80.00
SL-CF2520-W80	2700	84	691	550	0.25	19	0.1	78.57
SL-CF2530-W80	2700	120	691	800	0.25	28	0.1	80.00
SL-CF2540-W80	2700	168	691	1100	0.25	39	0.1	78.57
SL-CF3050-W80	2700	192	691	1400	0.25	49	0.1	87.50
SL-CF3070-W80	2700	204	691	1925	0.25	70	0.1	113.24
SL-CF3590-W80	2700	240	691	2400	0.25	87	0.1	120.00
SL-CF2520-W85	2700	84	691	550	0.25	19	0.1	78.57
SL-CF****_***	2700	360	691	3500	0.25	200	0.1	**

Model name	CCT (K)	Number of dies	Current density per die (mA/mm ²)	Current (mA)	Power density (W/mm ²)	Power (W)	Die Spacing (mm)	Current of die (mA)
SL-CFXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-JHXX-1201XXX-XX	2700	12	691	225	0.25	6	0.1	225.00
SL-JHXX-1202XXX-XX	2700	24	691	450	0.25	12	0.1	225.00
SL-JHXX-1203XXX-XX	2700	36	691	675	0.25	18	0.1	225.00
SL-JHXX-1204XXX-XX	2700	48	691	900	0.25	24	0.1	225.00
SL-JHXX-1205XXX-XX	2700	60	691	1125	0.25	30	0.1	225.00
SL-JHXX-1206XXX-XX	2700	72	691	1350	0.25	36	0.1	225.00
SL-JHXX-1207XXX-XX	2700	84	691	1575	0.25	42	0.1	225.00
SL-JHXX-1208XXX-XX	2700	96	691	1800	0.25	50	0.1	225.00
SL-JHXX-1209XXX-XX	2700	108	691	2025	0.25	54	0.1	225.00
SL-JHXX-1210XXX-XX	2700	120	691	2250	0.25	60	0.1	225.00
SL-JHXX-1211XXX-XX	2700	132	691	2475	0.25	66	0.1	225.00
SL-JHXX-1212XXX-XX	2700	144	691	2700	0.25	72	0.1	225.00
SL-JHXX-1213XXX-XX	2700	156	691	2925	0.25	78	0.1	225.00
SL-JHXX-0403XXX-XX	2700	12	691	675	0.25	12	0.1	225.00
SL-JHXX-XXXXXXXX-XX	2700	360	691	3500	0.25	200	0.1	**
SL-JT78-1202*1202***_**	**	48	691	400	0.25	16	0.2	200.00
SL-JTB3-0403*0403***_**	**	24	691	240	0.25	10	0.2	80.00
SL-JTB4-0402*0402***_**	**	16	691	160	0.25	6	0.2	80.00
SL-JTB0-1205*1205***_**	**	120	691	1500	0.25	60	0.2	300.00
SL-JTE3-1206*1206***_**	**	144	691	1800	0.25	72	0.2	300.00
SL-JTC4-1202*1202***_**	**	48	691	700	0.25	28	0.2	350.00
SL-JT79-1201*1201***_**	**	24	691	300	0.25	12	0.2	300.00
SL-JTE5-1201*1201***_**	**	24	691	400	0.25	16	0.2	400.00
SL-JTE6-1202*1202***_**	**	48	691	700	0.25	28	0.2	700.00
SL-JTC5-1203*1203***_**	**	72	691	1200	0.25	48	0.2	400.00
SL-JTB1-1202*1202***_**	**	48	691	800	0.25	32	0.2	400.00
SL-JT92-1204*1204***_**	**	96	691	1200	0.25	48	0.2	300.00
SL-JT93-1206*1206***_**	**	144	691	1800	0.25	72	0.2	300.00
SL-JTC3-1201*1201***_**	**	24	691	400	0.25	16	0.2	400.00
SL-JTA1-1202*1202***_**	**	48	691	700	0.25	28	0.2	350.00
SL-JTA2-1204*1204***_**	**	96	691	1200	0.25	48	0.2	300.00
SL-JTA3-1202*1202***_**	**	48	691	700	0.25	28	0.2	350.00
SL-JH02-1202*1202***_**	**	48	691	750	0.25	30	0.2	375.00
SL-JHXX-*****_**	**	360	691	3500	0.25	200	0.2	**
SL-JTXX-*****_**	**	360	691	3500	0.25	200	0.2	**

Note: Coding rules:

XX XXXX X XX-XX (eg: 28-1820N95-CL)

① ② ③ ④ ⑤

①: Stent models, such as 10/11/12/13/15/16/17/18/19/20/21/22/23;

②: Series and parallel, 1201/1202/0403/0506/1312/3601/3001/1703/2103;

③: CCT code: such as 2200 K, 2500 K, 2700K, 3000 K, 3500 K, 4000 K, 4500 K, 5000 K, 5700 K, 6000 K, 6500 K with code N/I/S/W;

④: CRI, such as 80,90,95,97,98;

⑤: The manufacturing process code is AL/BL/CL/DL/EL/FL/GL/C/CF.

XX-**** * **** **_*

① ② ③ ④ ⑤ ⑥ ⑦

①: Bracket model, such as A1/B1/A2/A3、 、 、 、 、

②④: Series and parallel

③⑤: Represents the CCT code N/I/S/W

⑥: CRI, such as 80,90,95,97,98;

⑦: The manufacturing process code is AL/BL/CL/DL/EL/FL/GL/C/CF.

Disclaimer:

The truthfulness and accuracy of all the technical information above for the covered LED products is ensured by manufacturer of LED light source.Guangdong GTG Testing Technology Co., Ltd. isn't responsible or gives any guarantees for the truthfulness of the technical information.

1.2 Standards Used

- ANSI/IES LM-80-21: Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources
- ANSI/IES TM-21-21: Projecting Long-Term Luminous, Photon, and Radiant Flux Maintenance of LED Light Sources(This standard was not accredited by NVLAP)
- ENERGY STAR® Requirements for the use of LM-80 Data(This standard was not accredited by NVLAP)

1.3 Test equipment list

Test Equipment	Serial No	Model No	Calibration due date
Integrating Sphere System	01-L-187	0.5m	2026/03/11
Standard Light Source	01-L-188	D062	2026/03/11
High Accuracy Array Spectroradio Meter	01-L-169	HAAS-3000	2026/03/11
Digital Power Meter	01-L-166	PF310	2026/03/11
Precision digital stabilized DC power supply	01-L-167	WY305	2026/03/11
Temperature Tester	01-L-192	UIS-D8036	2026/02/12

Statement of Traceability: Guangdong GTG Testing Technology Co., Ltd.attested that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit(SI).

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 $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, $\text{RH} < 65\%$.

1.6 Photometric Measurement Method

Integrating sphere and spectroradiometer is used to measure luminous flux and chromaticity coordinate $u'v'$. 2π measurement was used and sample was driven by DC power supply. The forward current was regulated to within $\pm 0.5\%$ of the nominal value. The test system was calibrated by halogen reference lamp. The ambient temperature during test was set to $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, $\text{RH} < 65\%$. The temperature measurement point was located in the sphere and the temperature was detected by a temperature probe. The uncertainty of the light output (luminous flux) measurements is $U=2.1\%$ ($K=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=18\text{K}$ ($K=2$), at the 95% confidence level. The uncertainty of the temperature is $U=0.5^{\circ}\text{C}$ ($K=2$), at the 95% confidence level.

1.7 Sample Set

Data Set 1:55°C,3500mA	
Part number:	SL-JF28-1820N95-CL
Number of Units:	25
Case Temperature(T_S):	> 53°C
Ambient Temperature(T_A):	> 50°C
Life Test Drive Current:	3500mA
Measurement Current:	3500mA

Data Set 2:85°C,3500mA	
Part number:	SL-JF28-1820N95-CL
Number of Units:	25
Case Temperature(T_S):	> 83°C
Ambient Temperature(T_A):	> 80°C
Life Test Drive Current:	3500mA
Measurement Current:	3500mA

Data Set 3:105°C,3500mA	
Part number:	SL-JF28-1820N95-CL
Number of Units:	25
Case Temperature(T_S):	> 103°C
Ambient Temperature(T_A):	> 100°C
Life Test Drive Current:	3500mA
Measurement Current:	3500mA

2. Summary of Test Result

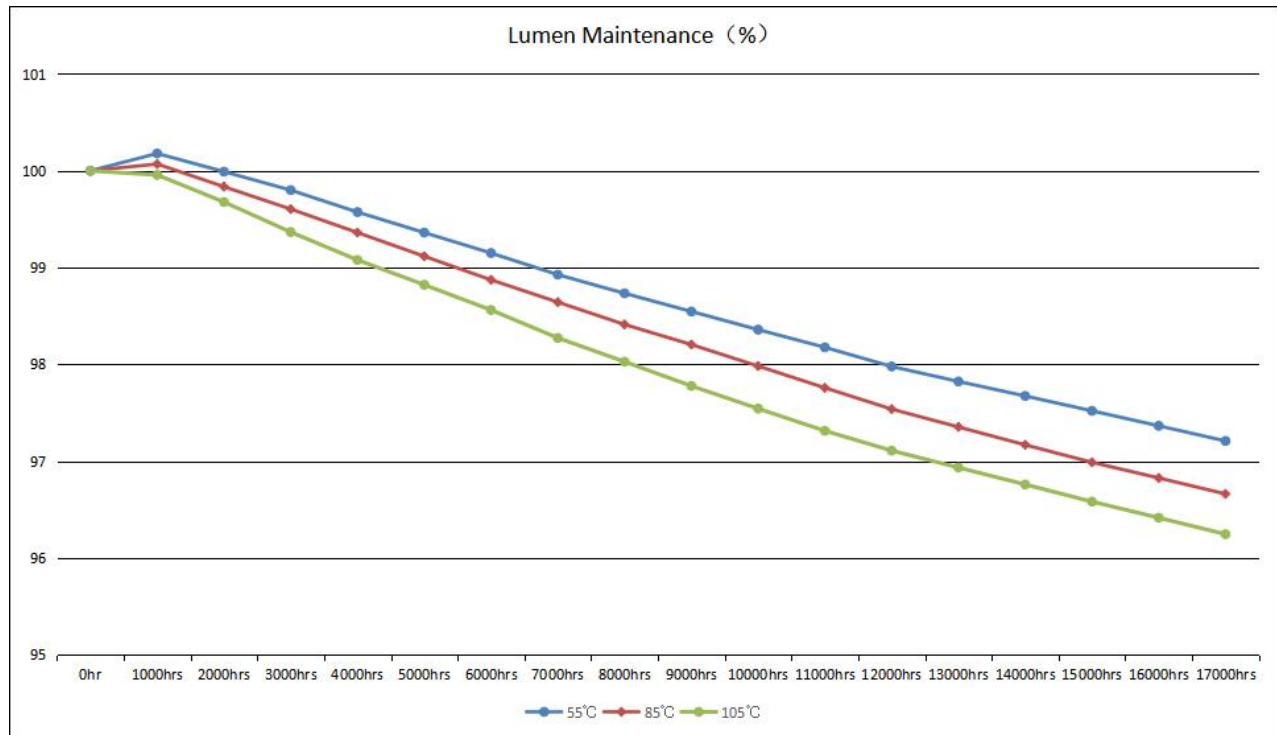
Data Set:	Nominal Case & Ambient Temp.	Drive Current	Sample Size	Failures Observed:	Test Interval	Test Duration	Reported TM-21 L ₇₀ Lifetime	Reported TM-21 L ₈₀ Lifetime	Reported TM-21 L ₉₀ Lifetime
1	55°C	3500mA	25	0	1000hrs	17000hrs	>102000hours	>102000hours	55500hrs
2	85°C	3500mA	25	0	1000hrs	17000hrs	>102000hours	>102000hours	52400hrs
3	105°C	3500mA	25	0	1000hrs	17000hrs	>102000hours	>102000hours	50000hrs

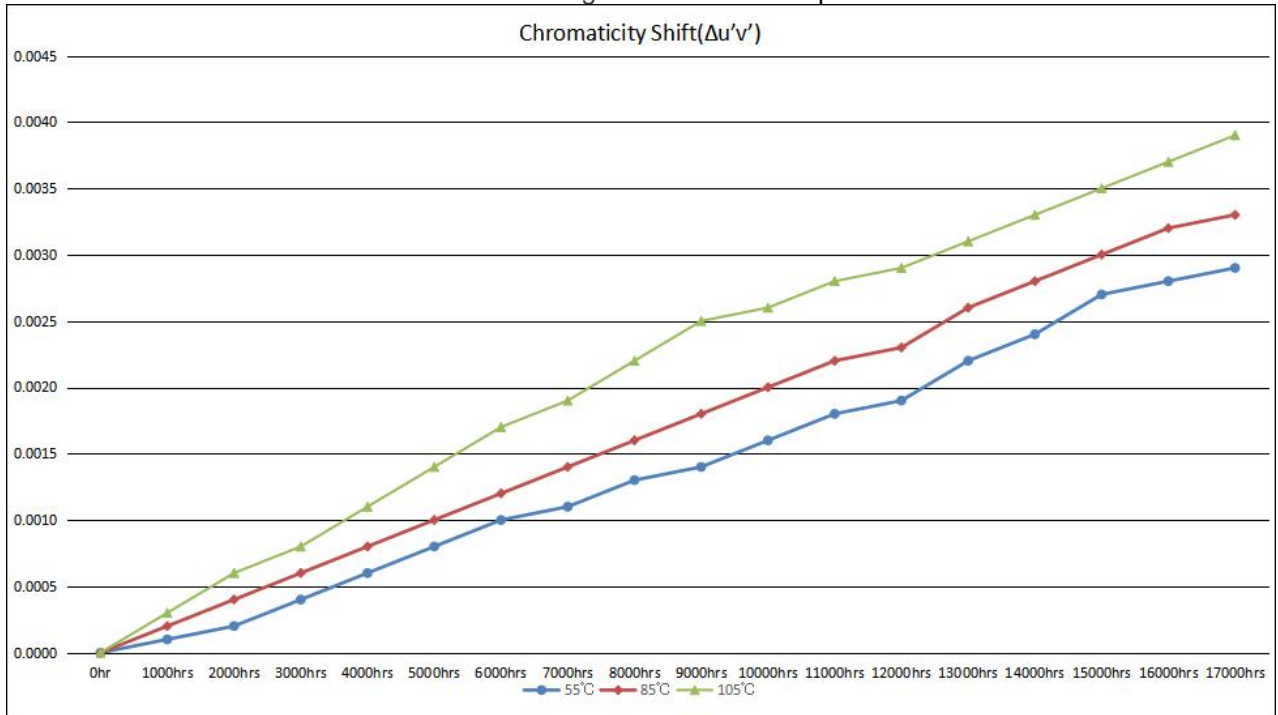
Average Lumen Maintenance (Percentage of Initial Luminous Flux)

Data Set:	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs	7000hrs	8000hrs	9000hrs	10000hrs	11000hrs	12000hrs	13000hrs	14000hrs	15000hrs	16000hrs	17000hrs
1	100.18%	99.99%	99.80%	99.57%	99.36%	99.15%	98.93%	98.73%	98.55%	98.36%	98.18%	97.98%	97.82%	97.67%	97.52%	97.36%	97.21%
2	100.07%	99.84%	99.60%	99.36%	99.12%	98.87%	98.64%	98.41%	98.20%	97.98%	97.76%	97.54%	97.35%	97.17%	96.99%	96.83%	96.66%
3	99.96%	99.68%	99.37%	99.08%	98.82%	98.56%	98.27%	98.03%	97.78%	97.54%	97.31%	97.11%	96.93%	96.76%	96.58%	96.41%	96.24%

Average Chromaticity Shift ($\Delta u'v'$)

Data Set:	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs	7000hrs	8000hrs	9000hrs	10000hrs	11000hrs	12000hrs	13000hrs	14000hrs	15000hrs	16000hrs	17000hrs
1	0.0001	0.0002	0.0004	0.0006	0.0008	0.0010	0.0011	0.0013	0.0014	0.0016	0.0018	0.0019	0.0022	0.0024	0.0027	0.0028	0.0029
2	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0023	0.0026	0.0028	0.0030	0.0032	0.0033
3	0.0003	0.0006	0.0008	0.0011	0.0014	0.0017	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0031	0.0033	0.0035	0.0037	0.0039





3. Test Data

3.1 Data Set 1, 55°C, 3500mA (Lumen Maintenance)

Sample Number	Φ(lm) 0hr (Initial)	Lumen Maintenance (%)																
		1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000 hrs
S1	16205	100.22	100.02	99.81	99.55	99.33	99.15	98.97	98.79	98.61	98.42	98.27	98.08	97.93	97.76	97.61	97.44	97.29
S2	16122	100.20	100.02	99.85	99.63	99.42	99.24	98.99	98.81	98.63	98.41	98.22	98.07	97.90	97.78	97.62	97.47	97.32
S3	16112	100.18	100.01	99.80	99.62	99.43	99.17	98.99	98.82	98.65	98.46	98.32	98.09	97.97	97.81	97.65	97.50	97.35
S4	16185	100.19	100.02	99.84	99.58	99.36	99.15	98.98	98.80	98.63	98.44	98.30	98.11	97.95	97.83	97.66	97.49	97.32
S5	16122	100.13	99.93	99.75	99.49	99.30	99.09	98.92	98.68	98.51	98.36	98.17	97.95	97.78	97.61	97.46	97.29	97.14
S6	16153	100.24	100.03	99.86	99.59	99.38	99.17	98.92	98.74	98.50	98.31	98.09	97.94	97.79	97.63	97.46	97.31	97.16
S7	16214	100.17	100.00	99.82	99.56	99.34	99.13	98.89	98.71	98.46	98.24	98.09	97.87	97.70	97.55	97.42	97.25	97.09
S8	16126	100.23	100.05	99.84	99.58	99.40	99.13	98.89	98.64	98.46	98.32	98.17	97.95	97.78	97.61	97.46	97.29	97.14
S9	16129	100.12	99.94	99.73	99.52	99.34	99.12	98.88	98.71	98.53	98.38	98.24	98.09	97.92	97.75	97.59	97.42	97.25
S10	16123	100.22	100.01	99.81	99.55	99.28	99.10	98.92	98.74	98.57	98.42	98.20	97.98	97.85	97.68	97.52	97.37	97.22
S11	16170	100.23	100.06	99.88	99.70	99.48	99.27	99.10	98.86	98.69	98.46	98.24	98.02	97.87	97.74	97.57	97.42	97.27
S12	16133	100.21	100.00	99.83	99.57	99.35	99.09	98.84	98.66	98.49	98.27	98.05	97.83	97.70	97.55	97.42	97.25	97.11
S13	16110	100.14	99.97	99.76	99.55	99.33	99.12	98.88	98.71	98.54	98.39	98.17	97.95	97.79	97.67	97.51	97.37	97.20
S14	16157	100.12	99.94	99.73	99.55	99.29	99.10	98.92	98.68	98.50	98.35	98.13	97.94	97.79	97.63	97.51	97.36	97.19
S15	16129	100.12	99.94	99.74	99.55	99.37	99.15	98.91	98.74	98.49	98.35	98.20	97.98	97.81	97.69	97.52	97.37	97.22
S16	16199	100.17	99.96	99.78	99.60	99.34	99.12	98.88	98.71	98.54	98.32	98.09	97.87	97.72	97.56	97.40	97.24	97.07
S17	16178	100.22	100.05	99.87	99.66	99.47	99.29	99.04	98.87	98.69	98.50	98.31	98.13	97.97	97.80	97.68	97.52	97.38
S18	16133	100.22	100.05	99.87	99.61	99.42	99.21	98.97	98.72	98.47	98.25	98.11	97.92	97.75	97.62	97.46	97.29	97.13
S19	16143	100.18	99.97	99.76	99.55	99.29	99.10	98.86	98.68	98.51	98.32	98.10	97.91	97.75	97.60	97.43	97.28	97.12
S20	16213	100.16	99.95	99.77	99.59	99.40	99.22	98.97	98.80	98.56	98.37	98.23	98.08	97.91	97.79	97.66	97.51	97.36
S21	16189	100.20	99.99	99.79	99.57	99.39	99.20	98.96	98.78	98.60	98.41	98.19	97.96	97.80	97.64	97.47	97.33	97.16
S22	16129	100.14	99.96	99.76	99.57	99.36	99.10	98.85	98.61	98.44	98.25	98.10	97.91	97.76	97.60	97.44	97.29	97.14
S23	16183	100.15	99.98	99.80	99.54	99.28	99.09	98.85	98.66	98.50	98.27	98.13	97.94	97.78	97.63	97.50	97.36	97.21
S24	16099	100.13	99.95	99.78	99.56	99.38	99.19	99.01	98.83	98.66	98.44	98.25	98.03	97.90	97.74	97.61	97.46	97.31
S25	16113	100.16	99.98	99.78	99.52	99.30	99.04	98.79	98.61	98.44	98.26	98.03	97.84	97.69	97.54	97.37	97.22	97.05
Ave.	16151	100.18	99.99	99.80	99.57	99.36	99.15	98.93	98.73	98.55	98.36	98.18	97.98	97.82	97.67	97.52	97.36	97.21
Med.	16133	100.18	99.99	99.80	99.57	99.36	99.13	98.92	98.72	98.53	98.36	98.17	97.95	97.79	97.64	97.51	97.36	97.20
St dev	35.5847	0.0401	0.0391	0.0451	0.0452	0.0571	0.0613	0.0709	0.0743	0.0775	0.0767	0.0818	0.0870	0.0880	0.0901	0.0919	0.0928	0.0961
Min.	16099	100.12	99.93	99.73	99.49	99.28	99.04	98.79	98.61	98.44	98.24	98.03	97.83	97.69	97.54	97.37	97.22	97.05
Max.	16214	100.24	100.06	99.88	99.70	99.48	99.29	99.10	98.87	98.69	98.50	98.32	98.13	97.97	97.83	97.68	97.52	97.38

3.2 Data Set 1, 55°C, 3500mA (Forward Voltage)

Sample Number	Forward Voltage(V)																	
	0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000hrs
S1	55.85	55.81	55.73	55.63	55.61	55.59	55.49	55.41	55.31	55.30	55.22	55.16	55.17	55.13	55.15	55.09	55.07	55.05
S2	55.81	55.78	55.80	55.73	55.76	55.67	55.61	55.58	55.60	55.62	55.61	55.58	55.62	55.60	55.55	55.47	55.46	55.47
S3	55.81	55.79	55.73	55.76	55.74	55.74	55.74	55.73	55.65	55.63	55.64	55.57	55.50	55.51	55.48	55.43	55.46	55.39
S4	55.84	55.78	55.79	55.74	55.72	55.64	55.62	55.54	55.47	55.48	55.48	55.47	55.47	55.38	55.30	55.32	55.32	55.29
S5	55.80	55.81	55.76	55.76	55.69	55.69	55.65	55.64	55.61	55.60	55.61	55.65	55.64	55.63	55.57	55.49	55.41	55.35
S6	55.83	55.74	55.78	55.71	55.67	55.67	55.71	55.61	55.64	55.60	55.60	55.52	55.50	55.45	55.46	55.37	55.34	55.38
S7	55.85	55.83	55.78	55.74	55.73	55.72	55.73	55.75	55.68	55.59	55.53	55.44	55.43	55.40	55.39	55.38	55.39	55.37
S8	55.80	55.72	55.62	55.63	55.55	55.57	55.54	55.47	55.42	55.36	55.39	55.41	55.40	55.38	55.32	55.22	55.17	55.09
S9	55.82	55.77	55.71	55.66	55.69	55.66	55.69	55.66	55.59	55.55	55.59	55.54	55.49	55.44	55.39	55.43	55.37	55.31
S10	55.81	55.85	55.89	55.89	55.84	55.88	55.80	55.83	55.87	55.91	55.84	55.88	55.79	55.72	55.63	55.64	55.68	55.60
S11	55.83	55.80	55.83	55.83	55.75	55.71	55.63	55.66	55.67	55.63	55.56	55.52	55.48	55.39	55.32	55.33	55.36	55.31
S12	55.82	55.74	55.66	55.59	55.52	55.45	55.42	55.42	55.39	55.36	55.26	55.21	55.23	55.25	55.29	55.19	55.11	55.12
S13	55.81	55.72	55.76	55.70	55.73	55.72	55.74	55.69	55.72	55.64	55.64	55.54	55.53	55.57	55.52	55.54	55.48	55.39
S14	55.83	55.77	55.67	55.61	55.64	55.64	55.64	55.67	55.60	55.55	55.47	55.39	55.39	55.31	55.21	55.24	55.25	55.22
S15	55.81	55.80	55.82	55.79	55.83	55.73	55.70	55.66	55.63	55.55	55.51	55.43	55.37	55.27	55.22	55.20	55.14	55.07
S16	55.84	55.76	55.69	55.69	55.69	55.68	55.65	55.68	55.66	55.64	55.55	55.48	55.45	55.37	55.38	55.29	55.25	55.29
S17	55.84	55.75	55.77	55.67	55.64	55.66	55.62	55.59	55.56	55.58	55.49	55.39	55.35	55.30	55.24	55.22	55.24	55.23
S18	55.80	55.76	55.67	55.67	55.67	55.66	55.62	55.54	55.44	55.41	55.33	55.25	55.20	55.18	55.18	55.13	55.16	55.19
S19	55.82	55.81	55.80	55.71	55.67	55.65	55.64	55.54	55.53	55.55	55.45	55.46	55.36	55.36	55.38	55.40	55.41	55.37
S20	55.85	55.88	55.87	55.88	55.87	55.84	55.80	55.83	55.87	55.83	55.74	55.74	55.71	55.75	55.66	55.69	55.64	55.67
S21	55.85	55.85	55.86	55.86	55.77	55.74	55.74	55.74	55.66	55.66	55.59	55.52	55.43	55.45	55.35	55.30	55.30	55.29
S22	55.81	55.83	55.74	55.64	55.61	55.60	55.54	55.52	55.53	55.56	55.57	55.53	55.51	55.51	55.45	55.45	55.49	55.48
S23	55.85	55.88	55.84	55.84	55.82	55.86	55.86	55.86	55.85	55.77	55.81	55.77	55.67	55.59	55.59	55.59	55.63	55.55
S24	55.80	55.82	55.86	55.77	55.75	55.72	55.69	55.66	55.58	55.53	55.53	55.56	55.54	55.51	55.54	55.49	55.47	55.45
S25	55.81	55.73	55.75	55.74	55.76	55.67	55.66	55.68	55.66	55.69	55.60	55.60	55.60	55.56	55.53	55.57	55.49	55.49
Ave.	55.82	55.79	55.77	55.73	55.71	55.69	55.66	55.64	55.61	55.58	55.54	55.50	55.47	55.44	55.40	55.38	55.36	55.34
Med.	55.82	55.79	55.77	55.73	55.72	55.67	55.65	55.66	55.61	55.59	55.56	55.52	55.48	55.44	55.39	55.38	55.37	55.35
St dev	0.0182	0.0464	0.0716	0.0846	0.0866	0.0907	0.0987	0.1191	0.1390	0.1386	0.1463	0.1624	0.1517	0.1571	0.1464	0.1606	0.1652	0.1615
Min.	55.80	55.72	55.62	55.59	55.52	55.45	55.42	55.41	55.31	55.30	55.22	55.16	55.17	55.13	55.15	55.09	55.07	55.05
Max.	55.85	55.88	55.89	55.89	55.87	55.88	55.86	55.86	55.87	55.91	55.84	55.88	55.79	55.75	55.66	55.69	55.68	55.67

3.3 Data Set 1, 55°C, 3500mA (Chromaticity Shift)

Sample Number	u'	v'	CCT (K)	Chromaticity Shift ($\Delta u'v'$)																
				0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000hrs	11000hrs	12000hrs	13000hrs	14000hrs	15000hrs	16000hrs
S1	0.2596	0.5327	2738	0.0001	0.0003	0.0004	0.0007	0.0008	0.0010	0.0012	0.0013	0.0014	0.0016	0.0018	0.0019	0.0022	0.0024	0.0026	0.0028	0.0029
S2	0.2596	0.5325	2739	0.0001	0.0003	0.0004	0.0006	0.0007	0.0009	0.0010	0.0012	0.0013	0.0015	0.0017	0.0018	0.0020	0.0021	0.0023	0.0024	0.0025
S3	0.2595	0.5324	2742	0.0001	0.0002	0.0003	0.0006	0.0007	0.0009	0.0011	0.0012	0.0013	0.0014	0.0016	0.0018	0.0021	0.0022	0.0025	0.0026	0.0028
S4	0.2596	0.5326	2738	0.0001	0.0003	0.0004	0.0005	0.0006	0.0008	0.0009	0.0011	0.0013	0.0014	0.0016	0.0018	0.0021	0.0024	0.0027	0.0028	0.0030
S5	0.2598	0.5324	2736	0.0001	0.0001	0.0005	0.0006	0.0009	0.0010	0.0011	0.0013	0.0015	0.0016	0.0018	0.0020	0.0023	0.0025	0.0028	0.0030	0.0031
S6	0.2593	0.5320	2748	0.0001	0.0003	0.0004	0.0005	0.0008	0.0010	0.0012	0.0013	0.0014	0.0016	0.0017	0.0019	0.0022	0.0024	0.0027	0.0028	0.0030
S7	0.2594	0.5321	2744	0.0001	0.0003	0.0004	0.0005	0.0006	0.0008	0.0010	0.0011	0.0012	0.0014	0.0016	0.0017	0.0020	0.0024	0.0027	0.0028	0.0029
S8	0.2602	0.5330	2725	0.0001	0.0003	0.0004	0.0006	0.0007	0.0009	0.0010	0.0012	0.0013	0.0015	0.0017	0.0018	0.0021	0.0024	0.0027	0.0028	0.0030
S9	0.2592	0.5326	2746	0.0001	0.0002	0.0004	0.0006	0.0007	0.0009	0.0010	0.0012	0.0013	0.0015	0.0016	0.0018	0.0021	0.0025	0.0028	0.0029	0.0030
S10	0.2597	0.5326	2736	0.0001	0.0002	0.0003	0.0005	0.0008	0.0010	0.0012	0.0014	0.0015	0.0017	0.0019	0.0021	0.0022	0.0024	0.0026	0.0028	0.0029
S11	0.2598	0.5325	2736	0.0001	0.0003	0.0004	0.0007	0.0008	0.0009	0.0011	0.0013	0.0014	0.0016	0.0017	0.0019	0.0021	0.0022	0.0025	0.0026	0.0027
S12	0.2597	0.5325	2737	0.0001	0.0003	0.0004	0.0005	0.0008	0.0012	0.0013	0.0015	0.0017	0.0018	0.0020	0.0021	0.0024	0.0027	0.0030	0.0031	0.0032
S13	0.2593	0.5326	2745	0.0001	0.0002	0.0004	0.0006	0.0007	0.0008	0.0010	0.0012	0.0013	0.0015	0.0016	0.0018	0.0019	0.0021	0.0023	0.0025	0.0026
S14	0.2599	0.5327	2733	0.0001	0.0001	0.0005	0.0008	0.0009	0.0012	0.0014	0.0015	0.0016	0.0018	0.0019	0.0021	0.0022	0.0026	0.0028	0.0030	0.0031
S15	0.2600	0.5329	2729	0.0001	0.0003	0.0004	0.0006	0.0009	0.0013	0.0014	0.0015	0.0017	0.0018	0.0020	0.0022	0.0024	0.0026	0.0029	0.0031	0.0032
S16	0.2597	0.5325	2738	0.0001	0.0003	0.0004	0.0005	0.0008	0.0009	0.0011	0.0013	0.0014	0.0016	0.0017	0.0019	0.0021	0.0023	0.0026	0.0028	0.0029
S17	0.2597	0.5326	2736	0.0001	0.0003	0.0004	0.0006	0.0008	0.0011	0.0013	0.0015	0.0016	0.0018	0.0019	0.0021	0.0022	0.0024	0.0025	0.0027	0.0028
S18	0.2596	0.5321	2742	0.0001	0.0002	0.0003	0.0005	0.0007	0.0008	0.0009	0.0011	0.0012	0.0014	0.0015	0.0017	0.0020	0.0023	0.0026	0.0027	0.0028
S19	0.2595	0.5318	2744	0.0001	0.0003	0.0004	0.0008	0.0010	0.0011	0.0012	0.0014	0.0015	0.0017	0.0018	0.0020	0.0023	0.0026	0.0029	0.0030	0.0031
S20	0.2597	0.5319	2739	0.0001	0.0001	0.0005	0.0008	0.0009	0.0010	0.0011	0.0013	0.0014	0.0016	0.0018	0.0019	0.0022	0.0025	0.0028	0.0029	0.0030
S21	0.2594	0.5320	2746	0.0001	0.0003	0.0004	0.0005	0.0007	0.0010	0.0011	0.0013	0.0014	0.0016	0.0018	0.0019	0.0023	0.0026	0.0029	0.0030	0.0032
S22	0.2597	0.5324	2738	0.0001	0.0003	0.0004	0.0007	0.0011	0.0012	0.0013	0.0015	0.0016	0.0018	0.0020	0.0021	0.0024	0.0027	0.0029	0.0030	0.0031
S23	0.2595	0.5326	2742	0.0001	0.0002	0.0003	0.0005	0.0006	0.0009	0.0011	0.0012	0.0013	0.0015	0.0017	0.0018	0.0020	0.0021	0.0024	0.0025	0.0027
S24	0.2598	0.5326	2735	0.0001	0.0003	0.0004	0.0005	0.0006	0.0008	0.0010	0.0011	0.0013	0.0015	0.0017	0.0018	0.0021	0.0023	0.0024	0.0026	0.0027
S25	0.2600	0.5327	2730	0.0001	0.0003	0.0004	0.0006	0.0009	0.0010	0.0012	0.0014	0.0015	0.0016	0.0018	0.0019	0.0022	0.0025	0.0027	0.0028	0.0030
Ave.	0.2596	0.5325	2738	0.0001	0.0002	0.0004	0.0006	0.0008	0.0010	0.0011	0.0013	0.0014	0.0016	0.0018	0.0019	0.0022	0.0024	0.0027	0.0028	0.0029
Med.	0.2597	0.5325	2738	0.0001	0.0003	0.0004	0.0006	0.0008	0.0010	0.0011	0.0013	0.0014	0.0016	0.0017	0.0019	0.0022	0.0024	0.0027	0.0028	0.0030
St dev	0.0002	0.0003	5.6208	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
Min.	0.2592	0.5318	2725	0.0001	0.0001	0.0003	0.0005	0.0006	0.0008	0.0009	0.0011	0.0012	0.0014	0.0015	0.0017	0.0019	0.0021	0.0023	0.0024	0.0025
Max.	0.2602	0.5330	2748	0.0001	0.0003	0.0005	0.0008	0.0011	0.0013	0.0014	0.0015	0.0017	0.0018	0.0020	0.0022	0.0024	0.0027	0.0030	0.0031	0.0032

3.4 Data Set 2, 85°C, 3500mA (Lumen Maintenance)

Sample Number	Φ(lm) 0hr (Initial)	Lumen Maintenance (%)																
		1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000 hrs
S26	16151	100.02	99.80	99.58	99.36	99.12	98.88	98.70	98.46	98.24	98.00	97.77	97.53	97.36	97.19	97.02	96.88	96.74
S27	16159	100.03	99.81	99.55	99.31	99.07	98.81	98.63	98.39	98.17	97.98	97.75	97.56	97.39	97.22	97.05	96.90	96.75
S28	16139	100.07	99.81	99.56	99.30	99.05	98.83	98.55	98.31	98.17	97.94	97.71	97.49	97.28	97.11	96.93	96.79	96.59
S29	16156	100.06	99.81	99.59	99.33	99.08	98.82	98.55	98.27	98.05	97.81	97.58	97.35	97.14	96.96	96.76	96.61	96.47
S30	16202	100.06	99.84	99.59	99.34	99.10	98.86	98.68	98.41	98.16	97.92	97.70	97.47	97.26	97.09	96.93	96.78	96.58
S31	16174	100.09	99.84	99.62	99.38	99.13	98.89	98.72	98.44	98.20	97.96	97.73	97.50	97.33	97.12	96.95	96.75	96.60
S32	16179	100.09	99.83	99.61	99.39	99.15	98.91	98.63	98.38	98.16	97.92	97.70	97.47	97.26	97.05	96.84	96.64	96.44
S33	16188	100.09	99.87	99.65	99.39	99.13	98.89	98.64	98.39	98.15	97.91	97.67	97.43	97.22	97.05	96.88	96.73	96.59
S34	16109	100.07	99.82	99.60	99.38	99.13	98.89	98.72	98.55	98.40	98.16	97.94	97.70	97.53	97.32	97.15	97.00	96.80
S35	16157	100.07	99.85	99.60	99.34	99.08	98.82	98.54	98.27	98.05	97.82	97.59	97.40	97.23	97.02	96.84	96.64	96.44
S36	16194	100.12	99.86	99.61	99.39	99.16	98.94	98.69	98.52	98.38	98.19	98.00	97.76	97.58	97.37	97.20	97.06	96.91
S37	16089	100.09	99.87	99.65	99.41	99.15	98.89	98.64	98.47	98.25	98.06	97.83	97.61	97.43	97.26	97.09	96.89	96.74
S38	16188	100.09	99.87	99.66	99.39	99.15	98.91	98.66	98.39	98.17	97.98	97.74	97.50	97.29	97.08	96.90	96.75	96.55
S39	16079	100.09	99.84	99.62	99.37	99.15	98.89	98.64	98.47	98.25	98.01	97.77	97.58	97.41	97.23	97.02	96.88	96.74
S40	16226	100.04	99.82	99.57	99.34	99.10	98.86	98.58	98.33	98.12	97.88	97.68	97.46	97.29	97.12	96.95	96.79	96.64
S41	16183	100.05	99.83	99.62	99.35	99.13	98.87	98.70	98.42	98.18	97.94	97.75	97.55	97.39	97.22	97.04	96.90	96.75
S42	16162	100.11	99.89	99.67	99.41	99.15	98.89	98.61	98.36	98.22	98.00	97.76	97.52	97.35	97.14	96.97	96.77	96.63
S43	16174	100.09	99.87	99.62	99.38	99.11	98.89	98.72	98.55	98.30	98.08	97.85	97.61	97.40	97.19	97.02	96.86	96.66
S44	16072	100.09	99.87	99.65	99.39	99.17	98.95	98.67	98.50	98.25	98.02	97.78	97.58	97.42	97.24	97.07	96.92	96.77
S45	16086	100.03	99.77	99.56	99.31	99.07	98.85	98.57	98.40	98.18	97.94	97.70	97.51	97.30	97.13	96.92	96.77	96.62
S46	16103	100.11	99.86	99.64	99.40	99.14	98.89	98.72	98.55	98.41	98.22	98.02	97.78	97.61	97.40	97.19	96.99	96.79
S47	16205	100.09	99.84	99.58	99.36	99.10	98.88	98.63	98.35	98.21	97.97	97.74	97.55	97.38	97.21	97.04	96.89	96.74
S48	16149	100.01	99.79	99.54	99.32	99.07	98.81	98.64	98.39	98.17	97.98	97.74	97.55	97.38	97.21	97.00	96.80	96.65
S49	16155	100.08	99.86	99.64	99.42	99.16	98.94	98.66	98.41	98.20	98.00	97.81	97.57	97.40	97.23	97.06	96.91	96.77
S50	16092	100.02	99.76	99.54	99.28	99.06	98.80	98.55	98.30	98.06	97.87	97.63	97.40	97.19	97.02	96.85	96.71	96.56
Ave.	16151	100.07	99.84	99.60	99.36	99.12	98.87	98.64	98.41	98.20	97.98	97.76	97.54	97.35	97.17	96.99	96.83	96.66
Med.	16157	100.08	99.84	99.61	99.37	99.13	98.89	98.64	98.40	98.18	97.98	97.74	97.53	97.36	97.19	97.00	96.80	96.65
St dev	43.8023	0.0312	0.0335	0.0389	0.0381	0.0360	0.0415	0.0584	0.0826	0.0956	0.1010	0.1085	0.1036	0.1140	0.1097	0.1113	0.1146	0.1183
Min.	16072	100.01	99.76	99.54	99.28	99.05	98.80	98.54	98.27	98.05	97.81	97.58	97.35	97.14	96.96	96.76	96.61	96.44
Max.	16226	100.12	99.89	99.67	99.42	99.17	98.95	98.72	98.55	98.41	98.22	98.02	97.78	97.61	97.40	97.20	97.06	96.91

3.5 Data Set 2, 85°C, 3500mA (Forward Voltage)

Sample Number	Forward Voltage(V)																	
	0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000hrs
S26	55.83	55.82	55.78	55.80	55.80	55.80	55.75	55.77	55.74	55.70	55.68	55.69	55.67	55.65	55.60	55.59	55.56	55.57
S27	55.83	55.78	55.78	55.79	55.72	55.70	55.66	55.59	55.51	55.53	55.51	55.43	55.33	55.33	55.36	55.40	55.43	55.47
S28	55.82	55.75	55.66	55.65	55.64	55.59	55.49	55.53	55.48	55.44	55.46	55.45	55.36	55.40	55.41	55.35	55.36	55.34
S29	55.83	55.78	55.75	55.67	55.66	55.69	55.73	55.72	55.64	55.67	55.62	55.54	55.51	55.49	55.47	55.38	55.28	55.27
S30	55.85	55.80	55.77	55.67	55.68	55.69	55.67	55.63	55.57	55.56	55.51	55.52	55.54	55.56	55.54	55.50	55.54	55.48
S31	55.84	55.84	55.76	55.78	55.79	55.74	55.65	55.65	55.63	55.62	55.58	55.48	55.49	55.48	55.41	55.40	55.32	55.22
S32	55.84	55.75	55.71	55.66	55.68	55.69	55.70	55.61	55.65	55.63	55.67	55.66	55.65	55.56	55.48	55.49	55.48	55.42
S33	55.84	55.77	55.74	55.65	55.69	55.60	55.60	55.64	55.67	55.62	55.63	55.59	55.57	55.61	55.51	55.43	55.43	55.43
S34	55.82	55.76	55.75	55.66	55.64	55.66	55.70	55.72	55.65	55.68	55.71	55.66	55.58	55.53	55.51	55.46	55.39	55.31
S35	55.83	55.84	55.87	55.86	55.78	55.69	55.60	55.52	55.56	55.51	55.43	55.34	55.25	55.29	55.20	55.14	55.15	55.10
S36	55.84	55.84	55.77	55.68	55.64	55.63	55.64	55.57	55.61	55.55	55.56	55.46	55.48	55.47	55.38	55.41	55.36	55.32
S37	55.80	55.72	55.73	55.66	55.68	55.61	55.65	55.58	55.56	55.48	55.45	55.45	55.43	55.40	55.34	55.25	55.18	55.21
S38	55.84	55.83	55.78	55.80	55.81	55.79	55.72	55.70	55.72	55.62	55.56	55.51	55.51	55.47	55.39	55.32	55.30	55.29
S39	55.80	55.80	55.74	55.76	55.71	55.66	55.66	55.60	55.61	55.57	55.50	55.45	55.40	55.39	55.32	55.29	55.32	55.35
S40	55.86	55.76	55.67	55.66	55.57	55.58	55.62	55.55	55.45	55.43	55.33	55.26	55.22	55.20	55.20	55.13	55.17	55.14
S41	55.84	55.78	55.75	55.76	55.72	55.75	55.75	55.77	55.79	55.74	55.69	55.69	55.70	55.60	55.51	55.42	55.37	55.40
S42	55.83	55.86	55.82	55.84	55.77	55.77	55.78	55.82	55.75	55.70	55.71	55.75	55.66	55.62	55.53	55.44	55.36	55.35
S43	55.84	55.82	55.85	55.83	55.79	55.82	55.73	55.72	55.72	55.69	55.62	55.56	55.60	55.55	55.46	55.47	55.37	55.31
S44	55.80	55.77	55.76	55.67	55.58	55.51	55.53	55.49	55.46	55.42	55.39	55.33	55.32	55.36	55.39	55.34	55.29	55.22
S45	55.81	55.75	55.79	55.82	55.81	55.81	55.84	55.77	55.74	55.65	55.65	55.58	55.51	55.44	55.43	55.39	55.40	55.32
S46	55.81	55.72	55.64	55.58	55.62	55.59	55.52	55.48	55.49	55.53	55.53	55.53	55.52	55.46	55.50	55.43	55.42	55.43
S47	55.85	55.86	55.77	55.70	55.70	55.67	55.64	55.65	55.62	55.62	55.54	55.56	55.57	55.59	55.58	55.61	55.61	55.51
S48	55.82	55.77	55.76	55.68	55.69	55.65	55.68	55.58	55.52	55.54	55.55	55.58	55.53	55.54	55.49	55.52	55.47	55.37
S49	55.83	55.73	55.65	55.66	55.64	55.56	55.50	55.54	55.58	55.61	55.52	55.46	55.46	55.39	55.30	55.33	55.31	55.30
S50	55.81	55.74	55.78	55.73	55.70	55.70	55.74	55.78	55.79	55.76	55.74	55.73	55.66	55.62	55.65	55.58	55.48	55.42
Ave.	55.83	55.79	55.75	55.72	55.70	55.68	55.66	55.64	55.62	55.59	55.57	55.53	55.50	55.48	55.44	55.40	55.37	55.34
Med.	55.83	55.78	55.76	55.68	55.69	55.69	55.66	55.63	55.62	55.62	55.56	55.53	55.51	55.48	55.46	55.41	55.37	55.34
St dev	0.0165	0.0430	0.0557	0.0762	0.0700	0.0831	0.0883	0.0991	0.1027	0.0950	0.1067	0.1250	0.1308	0.1151	0.1131	0.1208	0.1155	0.1131
Min.	55.80	55.72	55.64	55.58	55.57	55.51	55.49	55.48	55.45	55.42	55.33	55.26	55.22	55.20	55.20	55.13	55.15	55.10
Max.	55.86	55.86	55.87	55.86	55.81	55.82	55.84	55.82	55.79	55.76	55.74	55.75	55.70	55.65	55.65	55.61	55.61	55.57

3.6 Data Set 2, 85°C, 3500mA (Chromaticity Shift)

Sample Number	u'	v'	CCT (K)	Chromaticity Shift ($\Delta u'v'$)																
				0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000hrs	11000hrs	12000hrs	13000hrs	14000hrs	15000hrs	16000hrs
S26	0.2599	0.5328	2733	0.0001	0.0004	0.0005	0.0007	0.0009	0.0012	0.0013	0.0014	0.0017	0.0019	0.0021	0.0022	0.0025	0.0027	0.0030	0.0031	0.0033
S27	0.2598	0.5327	2735	0.0002	0.0004	0.0006	0.0008	0.0009	0.0012	0.0013	0.0016	0.0017	0.0019	0.0020	0.0022	0.0024	0.0026	0.0028	0.0029	0.0031
S28	0.2597	0.5326	2736	0.0002	0.0005	0.0007	0.0009	0.0010	0.0013	0.0016	0.0019	0.0020	0.0022	0.0023	0.0026	0.0027	0.0030	0.0032	0.0034	0.0036
S29	0.2593	0.5326	2746	0.0001	0.0004	0.0006	0.0008	0.0011	0.0013	0.0016	0.0017	0.0018	0.0021	0.0022	0.0023	0.0024	0.0027	0.0029	0.0030	0.0032
S30	0.2601	0.5329	2727	0.0002	0.0004	0.0006	0.0009	0.0011	0.0014	0.0015	0.0017	0.0018	0.0020	0.0022	0.0024	0.0026	0.0029	0.0030	0.0032	0.0033
S31	0.2598	0.5325	2736	0.0002	0.0003	0.0006	0.0009	0.0012	0.0015	0.0017	0.0020	0.0023	0.0024	0.0025	0.0028	0.0030	0.0033	0.0035	0.0036	0.0038
S32	0.2603	0.5330	2722	0.0003	0.0004	0.0006	0.0007	0.0010	0.0013	0.0016	0.0017	0.0020	0.0022	0.0023	0.0025	0.0027	0.0029	0.0031	0.0033	0.0035
S33	0.2594	0.5326	2742	0.0002	0.0004	0.0006	0.0007	0.0010	0.0012	0.0015	0.0017	0.0020	0.0021	0.0023	0.0024	0.0027	0.0029	0.0032	0.0033	0.0035
S34	0.2594	0.5326	2743	0.0001	0.0005	0.0007	0.0008	0.0010	0.0013	0.0016	0.0017	0.0018	0.0021	0.0023	0.0024	0.0026	0.0028	0.0031	0.0032	0.0034
S35	0.2596	0.5320	2741	0.0002	0.0004	0.0006	0.0007	0.0010	0.0013	0.0014	0.0017	0.0019	0.0020	0.0023	0.0024	0.0025	0.0028	0.0029	0.0031	0.0032
S36	0.2599	0.5325	2734	0.0002	0.0004	0.0006	0.0008	0.0011	0.0014	0.0016	0.0019	0.0020	0.0023	0.0025	0.0027	0.0029	0.0032	0.0033	0.0035	0.0037
S37	0.2597	0.5319	2739	0.0002	0.0004	0.0005	0.0007	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0019	0.0020	0.0023	0.0024	0.0027	0.0028	0.0030
S38	0.2594	0.5320	2746	0.0002	0.0004	0.0006	0.0007	0.0009	0.0012	0.0013	0.0015	0.0018	0.0020	0.0023	0.0024	0.0025	0.0027	0.0030	0.0031	0.0033
S39	0.2598	0.5322	2735	0.0003	0.0004	0.0006	0.0007	0.0010	0.0011	0.0012	0.0014	0.0016	0.0017	0.0019	0.0021	0.0022	0.0024	0.0026	0.0028	0.0030
S40	0.2598	0.5326	2734	0.0002	0.0003	0.0007	0.0009	0.0011	0.0014	0.0016	0.0019	0.0022	0.0023	0.0024	0.0027	0.0029	0.0031	0.0033	0.0035	0.0036
S41	0.2599	0.5324	2733	0.0002	0.0004	0.0006	0.0008	0.0009	0.0011	0.0014	0.0016	0.0019	0.0021	0.0024	0.0026	0.0028	0.0029	0.0032	0.0033	0.0035
S42	0.2604	0.5330	2721	0.0001	0.0004	0.0006	0.0008	0.0010	0.0011	0.0012	0.0014	0.0017	0.0018	0.0019	0.0020	0.0023	0.0024	0.0026	0.0027	0.0029
S43	0.2595	0.5326	2740	0.0002	0.0005	0.0007	0.0009	0.0010	0.0013	0.0014	0.0017	0.0018	0.0019	0.0021	0.0023	0.0024	0.0027	0.0028	0.0030	0.0031
S44	0.2598	0.5325	2734	0.0002	0.0004	0.0006	0.0009	0.0011	0.0014	0.0016	0.0017	0.0020	0.0021	0.0022	0.0023	0.0026	0.0029	0.0031	0.0033	0.0034
S45	0.2597	0.5323	2737	0.0001	0.0004	0.0005	0.0007	0.0009	0.0012	0.0015	0.0016	0.0017	0.0018	0.0019	0.0022	0.0024	0.0026	0.0028	0.0030	0.0031
S46	0.2600	0.5327	2730	0.0001	0.0004	0.0006	0.0007	0.0009	0.0012	0.0015	0.0016	0.0019	0.0021	0.0022	0.0025	0.0027	0.0029	0.0030	0.0032	0.0034
S47	0.2601	0.5329	2727	0.0002	0.0004	0.0006	0.0007	0.0009	0.0011	0.0014	0.0017	0.0018	0.0019	0.0021	0.0024	0.0026	0.0028	0.0030	0.0031	0.0033
S48	0.2604	0.5329	2720	0.0003	0.0004	0.0006	0.0007	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0019	0.0020	0.0023	0.0026	0.0028	0.0030	0.0032
S49	0.2594	0.5326	2743	0.0002	0.0005	0.0007	0.0009	0.0010	0.0012	0.0013	0.0015	0.0016	0.0017	0.0018	0.0019	0.0022	0.0024	0.0027	0.0028	0.0030
S50	0.2599	0.5324	2734	0.0002	0.0005	0.0006	0.0009	0.0010	0.0011	0.0014	0.0017	0.0020	0.0021	0.0022	0.0024	0.0027	0.0029	0.0032	0.0034	0.0035
Ave.	0.2598	0.5326	2735	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0023	0.0026	0.0028	0.0030	0.0032	0.0033
Med.	0.2598	0.5326	2735	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0017	0.0018	0.0020	0.0022	0.0024	0.0026	0.0028	0.0030	0.0031	0.0033
St dev	0.0003	0.0003	7.2314	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Min.	0.2593	0.5319	2720	0.0001	0.0003	0.0005	0.0007	0.0009	0.0011	0.0012	0.0014	0.0016	0.0017	0.0018	0.0019	0.0022	0.0024	0.0026	0.0027	0.0029
Max.	0.2604	0.5330	2746	0.0003	0.0005	0.0007	0.0009	0.0012	0.0015	0.0017	0.0020	0.0023	0.0024	0.0025	0.0028	0.0030	0.0033	0.0035	0.0036	0.0038

3.7 Data Set 3, 105°C, 3500mA (Lumen Maintenance)

Sample Number	Φ(lm) 0hr (Initial)	Lumen Maintenance (%)																
		1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000 hrs
S51	16172	99.93	99.64	99.34	99.04	98.78	98.51	98.31	98.15	97.98	97.77	97.56	97.35	97.17	97.01	96.82	96.65	96.46
S52	16095	99.99	99.72	99.41	99.11	98.87	98.62	98.31	98.15	97.87	97.62	97.38	97.20	97.04	96.85	96.67	96.53	96.34
S53	16098	99.94	99.65	99.34	99.06	98.81	98.55	98.36	98.08	97.81	97.55	97.34	97.17	97.00	96.84	96.65	96.52	96.34
S54	16255	100.01	99.74	99.43	99.15	98.89	98.63	98.32	98.05	97.77	97.56	97.35	97.17	97.01	96.82	96.66	96.47	96.34
S55	16142	100.00	99.72	99.41	99.12	98.85	98.59	98.28	98.11	97.84	97.63	97.42	97.20	97.01	96.83	96.66	96.49	96.30
S56	16186	99.95	99.67	99.36	99.06	98.81	98.54	98.24	97.96	97.79	97.54	97.33	97.11	96.92	96.74	96.55	96.37	96.23
S57	16215	99.97	99.69	99.37	99.08	98.82	98.57	98.27	98.10	97.83	97.59	97.33	97.11	96.95	96.76	96.60	96.41	96.22
S58	16090	99.97	99.68	99.37	99.07	98.80	98.53	98.22	98.06	97.78	97.54	97.30	97.08	96.90	96.73	96.55	96.38	96.24
S59	16162	99.92	99.64	99.34	99.06	98.81	98.55	98.24	98.08	97.91	97.70	97.45	97.27	97.09	96.90	96.72	96.58	96.39
S60	16143	99.89	99.60	99.29	99.01	98.76	98.49	98.19	97.91	97.63	97.38	97.17	96.95	96.76	96.58	96.40	96.21	96.07
S61	16167	99.99	99.71	99.40	99.11	98.85	98.60	98.29	98.01	97.74	97.48	97.24	97.02	96.84	96.67	96.49	96.35	96.17
S62	16161	99.99	99.71	99.40	99.11	98.86	98.59	98.28	98.01	97.73	97.48	97.23	97.02	96.83	96.65	96.47	96.28	96.10
S63	16242	99.90	99.61	99.30	99.01	98.76	98.50	98.19	97.91	97.64	97.39	97.15	96.94	96.78	96.59	96.41	96.22	96.05
S64	16204	100.01	99.74	99.43	99.14	98.87	98.63	98.32	98.04	97.77	97.56	97.30	97.10	96.91	96.73	96.55	96.37	96.20
S65	16081	99.91	99.63	99.32	99.05	98.80	98.53	98.33	98.06	97.78	97.57	97.36	97.14	96.98	96.81	96.65	96.48	96.29
S66	16145	99.90	99.61	99.31	99.03	98.78	98.51	98.21	97.93	97.66	97.42	97.21	97.03	96.87	96.71	96.52	96.35	96.16
S67	16204	99.95	99.67	99.37	99.09	98.82	98.56	98.25	97.98	97.70	97.46	97.21	97.00	96.82	96.65	96.49	96.31	96.14
S68	16088	100.01	99.73	99.42	99.12	98.86	98.59	98.40	98.12	97.84	97.63	97.40	97.22	97.05	96.89	96.71	96.57	96.44
S69	16206	99.90	99.62	99.30	99.03	98.76	98.51	98.20	97.93	97.65	97.44	97.21	97.00	96.83	96.67	96.51	96.37	96.18
S70	16090	99.95	99.68	99.36	99.07	98.81	98.54	98.24	97.96	97.80	97.59	97.38	97.15	96.99	96.83	96.66	96.48	96.29
S71	16165	99.96	99.68	99.36	99.09	98.82	98.56	98.25	97.97	97.70	97.44	97.21	97.00	96.83	96.65	96.49	96.31	96.18
S72	16156	99.94	99.66	99.35	99.06	98.81	98.55	98.24	97.97	97.69	97.44	97.20	97.02	96.84	96.67	96.49	96.35	96.17
S73	16255	99.97	99.69	99.38	99.08	98.84	98.57	98.27	98.10	97.94	97.70	97.44	97.24	97.05	96.87	96.68	96.50	96.32
S74	16124	99.98	99.70	99.38	99.09	98.84	98.60	98.29	98.01	97.85	97.60	97.39	97.18	96.99	96.81	96.63	96.45	96.32
S75	16209	100.02	99.74	99.43	99.13	98.87	98.61	98.30	98.03	97.75	97.50	97.26	97.05	96.87	96.69	96.50	96.37	96.18
Ave.	16162	99.96	99.68	99.37	99.08	98.82	98.56	98.27	98.03	97.78	97.54	97.31	97.11	96.93	96.76	96.58	96.41	96.24
Med.	16162	99.96	99.68	99.37	99.08	98.82	98.56	98.27	98.03	97.78	97.55	97.33	97.11	96.92	96.74	96.55	96.38	96.23
St dev	53.3893	0.0406	0.0427	0.0430	0.0400	0.0372	0.0404	0.0525	0.0730	0.0920	0.1007	0.1031	0.1060	0.1061	0.1067	0.1068	0.1115	0.1095
Min.	16081	99.89	99.60	99.29	99.01	98.76	98.49	98.19	97.91	97.63	97.38	97.15	96.94	96.76	96.58	96.40	96.21	96.05
Max.	16255	100.02	99.74	99.43	99.15	98.89	98.63	98.40	98.15	97.98	97.77	97.56	97.35	97.17	97.01	96.82	96.65	96.46

3.8 Data Set 3, 105°C, 3500mA (Forward Voltage)

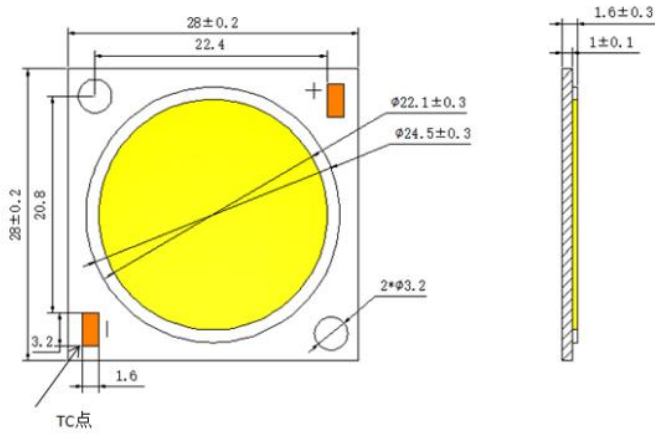
Sample Number	Forward Voltage(V)																	
	0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000 hrs	11000 hrs	12000 hrs	13000 hrs	14000 hrs	15000 hrs	16000 hrs	17000hrs
S51	55.83	55.83	55.87	55.85	55.77	55.80	55.80	55.76	55.75	55.71	55.70	55.73	55.67	55.63	55.63	55.58	55.58	55.56
S52	55.80	55.75	55.69	55.69	55.72	55.71	55.66	55.59	55.57	55.58	55.57	55.50	55.44	55.35	55.29	55.33	55.24	55.17
S53	55.80	55.79	55.70	55.72	55.64	55.66	55.70	55.65	55.66	55.65	55.60	55.64	55.64	55.65	55.56	55.51	55.52	55.52
S54	55.86	55.79	55.80	55.71	55.67	55.67	55.69	55.62	55.66	55.59	55.52	55.50	55.50	55.53	55.46	55.43	55.38	55.41
S55	55.81	55.73	55.66	55.58	55.58	55.56	55.51	55.53	55.46	55.42	55.44	55.39	55.37	55.32	55.36	55.29	55.25	55.22
S56	55.83	55.80	55.75	55.71	55.69	55.73	55.69	55.64	55.56	55.48	55.43	55.45	55.49	55.40	55.41	55.38	55.36	55.40
S57	55.86	55.81	55.73	55.73	55.74	55.69	55.64	55.67	55.70	55.63	55.66	55.69	55.67	55.65	55.60	55.56	55.56	55.50
S58	55.80	55.82	55.83	55.77	55.73	55.75	55.79	55.72	55.73	55.66	55.62	55.63	55.59	55.57	55.60	55.51	55.45	55.48
S59	55.84	55.80	55.82	55.77	55.80	55.80	55.74	55.76	55.73	55.66	55.64	55.64	55.59	55.59	55.55	55.53	55.44	55.45
S60	55.82	55.83	55.87	55.82	55.77	55.78	55.73	55.72	55.75	55.77	55.74	55.74	55.75	55.66	55.69	55.71	55.65	55.64
S61	55.83	55.80	55.74	55.67	55.67	55.71	55.71	55.74	55.67	55.65	55.56	55.56	55.48	55.45	55.36	55.33	55.35	55.27
S62	55.83	55.81	55.83	55.87	55.88	55.92	55.89	55.89	55.88	55.87	55.82	55.76	55.78	55.82	55.80	55.72	55.71	55.75
S63	55.86	55.89	55.90	55.89	55.85	55.82	55.76	55.69	55.65	55.64	55.68	55.61	55.55	55.53	55.51	55.48	55.44	55.37
S64	55.86	55.77	55.81	55.74	55.65	55.67	55.63	55.55	55.50	55.44	55.39	55.42	55.35	55.33	55.27	55.31	55.27	55.22
S65	55.80	55.74	55.73	55.67	55.61	55.57	55.56	55.53	55.55	55.56	55.57	55.55	55.52	55.51	55.47	55.43	55.41	55.35
S66	55.83	55.79	55.82	55.83	55.85	55.82	55.84	55.78	55.77	55.69	55.72	55.64	55.65	55.62	55.65	55.61	55.63	55.60
S67	55.85	55.80	55.71	55.86	55.63	55.61	55.65	55.66	55.58	55.50	55.41	55.40	55.43	55.35	55.32	55.31	55.34	55.27
S68	55.80	55.72	55.64	55.56	55.52	55.44	55.35	55.28	55.28	55.21	55.18	55.17	55.21	55.21	55.25	55.17	55.13	55.10
S69	55.85	55.84	55.82	55.77	55.70	55.74	55.65	55.57	55.52	55.54	55.58	55.50	55.49	55.42	55.44	55.43	55.47	55.43
S70	55.81	55.73	55.64	55.59	55.63	55.54	55.52	55.50	55.50	55.53	55.47	55.51	55.48	55.43	55.39	55.39	55.35	55.31
S71	55.84	55.84	55.80	55.72	55.63	55.57	55.54	55.53	55.50	55.42	55.41	55.44	55.46	55.41	55.38	55.31	55.34	55.32
S72	55.83	55.80	55.81	55.72	55.72	55.70	55.62	55.54	55.55	55.57	55.49	55.42	55.43	55.46	55.46	55.42	55.40	55.42
S73	55.86	55.81	55.80	55.81	55.74	55.69	55.69	55.62	55.54	55.47	55.45	55.44	55.48	55.40	55.37	55.39	55.37	55.33
S74	55.81	55.77	55.68	55.59	55.50	55.44	55.44	55.35	55.26	55.20	55.11	55.12	55.14	55.09	55.09	55.13	55.07	55.01
S75	55.85	55.86	55.87	55.87	55.85	55.78	55.80	55.83	55.83	55.81	55.73	55.74	55.74	55.67	55.69	55.73	55.70	55.71
Ave.	55.83	55.80	55.77	55.73	55.70	55.69	55.66	55.63	55.61	55.57	55.54	55.53	55.52	55.48	55.46	55.44	55.42	55.39
Med.	55.83	55.80	55.80	55.72	55.70	55.70	55.69	55.64	55.58	55.58	55.57	55.51	55.49	55.46	55.46	55.43	55.40	55.40
St dev	0.0221	0.0416	0.0766	0.0944	0.1004	0.1185	0.1264	0.1394	0.1511	0.1599	0.1682	0.1639	0.1555	0.1636	0.1651	0.1573	0.1633	0.1816
Min.	55.80	55.72	55.64	55.56	55.50	55.44	55.35	55.28	55.26	55.20	55.11	55.12	55.14	55.09	55.09	55.13	55.07	55.01
Max.	55.86	55.89	55.90	55.89	55.88	55.92	55.89	55.89	55.88	55.87	55.82	55.76	55.78	55.82	55.80	55.73	55.71	55.75

3.9 Data Set 3, 105°C, 3500mA (Chromaticity Shift)

Sample Number	u'	v'	CCT (K)	Chromaticity Shift ($\Delta u'v'$)																
				0hr (Initial)	1000 hrs	2000 hrs	3000 hrs	4000 hrs	5000 hrs	6000 hrs	7000 hrs	8000 hrs	9000 hrs	10000hrs	11000hrs	12000hrs	13000hrs	14000hrs	15000hrs	16000hrs
S51	0.2599	0.5326	2732	0.0004	0.0006	0.0009	0.0013	0.0014	0.0016	0.0019	0.0022	0.0025	0.0026	0.0028	0.0030	0.0031	0.0032	0.0033	0.0036	0.0039
S52	0.2599	0.5324	2733	0.0002	0.0005	0.0007	0.0011	0.0013	0.0015	0.0018	0.0021	0.0024	0.0025	0.0027	0.0028	0.0030	0.0032	0.0035	0.0037	0.0040
S53	0.2601	0.5326	2729	0.0002	0.0004	0.0006	0.0009	0.0012	0.0014	0.0016	0.0019	0.0021	0.0023	0.0025	0.0026	0.0029	0.0030	0.0031	0.0034	0.0037
S54	0.2599	0.5324	2733	0.0002	0.0004	0.0007	0.0010	0.0013	0.0016	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0030	0.0031	0.0033	0.0035	0.0037
S55	0.2605	0.5329	2720	0.0004	0.0007	0.0009	0.0013	0.0016	0.0020	0.0023	0.0025	0.0028	0.0029	0.0031	0.0032	0.0035	0.0036	0.0038	0.0039	0.0042
S56	0.2603	0.5328	2724	0.0002	0.0005	0.0008	0.0012	0.0015	0.0017	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0032	0.0034	0.0036	0.0038	0.0041
S57	0.2602	0.5328	2725	0.0004	0.0005	0.0008	0.0012	0.0013	0.0016	0.0018	0.0021	0.0024	0.0026	0.0027	0.0029	0.0030	0.0031	0.0033	0.0036	0.0039
S58	0.2599	0.5324	2733	0.0004	0.0006	0.0009	0.0011	0.0014	0.0018	0.0020	0.0023	0.0025	0.0027	0.0028	0.0030	0.0031	0.0034	0.0035	0.0037	0.0040
S59	0.2600	0.5326	2730	0.0003	0.0006	0.0009	0.0012	0.0013	0.0016	0.0018	0.0021	0.0023	0.0024	0.0026	0.0028	0.0030	0.0031	0.0032	0.0034	0.0036
S60	0.2599	0.5325	2732	0.0004	0.0007	0.0009	0.0012	0.0015	0.0019	0.0021	0.0024	0.0026	0.0028	0.0029	0.0031	0.0033	0.0034	0.0035	0.0038	0.0041
S61	0.2595	0.5326	2741	0.0004	0.0006	0.0008	0.0011	0.0014	0.0018	0.0021	0.0023	0.0026	0.0027	0.0029	0.0030	0.0032	0.0033	0.0034	0.0036	0.0038
S62	0.2597	0.5318	2740	0.0004	0.0006	0.0009	0.0013	0.0015	0.0018	0.0021	0.0023	0.0026	0.0027	0.0029	0.0031	0.0033	0.0036	0.0038	0.0040	0.0042
S63	0.2598	0.5318	2739	0.0004	0.0005	0.0008	0.0012	0.0015	0.0019	0.0022	0.0024	0.0027	0.0028	0.0030	0.0031	0.0033	0.0036	0.0037	0.0039	0.0041
S64	0.2596	0.5318	2742	0.0002	0.0005	0.0007	0.0009	0.0012	0.0014	0.0016	0.0019	0.0022	0.0023	0.0025	0.0026	0.0029	0.0030	0.0032	0.0033	0.0035
S65	0.2599	0.5321	2734	0.0004	0.0007	0.0009	0.0013	0.0014	0.0017	0.0019	0.0022	0.0024	0.0026	0.0027	0.0029	0.0031	0.0033	0.0036	0.0037	0.0039
S66	0.2603	0.5328	2724	0.0004	0.0005	0.0006	0.0010	0.0013	0.0016	0.0019	0.0021	0.0024	0.0025	0.0027	0.0028	0.0030	0.0033	0.0034	0.0037	0.0039
S67	0.2601	0.5324	2730	0.0002	0.0004	0.0005	0.0009	0.0012	0.0015	0.0018	0.0021	0.0024	0.0025	0.0027	0.0028	0.0031	0.0033	0.0034	0.0036	0.0038
S68	0.2597	0.5323	2737	0.0004	0.0005	0.0006	0.0010	0.0012	0.0015	0.0018	0.0020	0.0023	0.0025	0.0026	0.0027	0.0029	0.0031	0.0032	0.0035	0.0038
S69	0.2596	0.5325	2738	0.0002	0.0005	0.0006	0.0009	0.0011	0.0013	0.0016	0.0018	0.0021	0.0022	0.0024	0.0025	0.0027	0.0029	0.0030	0.0031	0.0033
S70	0.2600	0.5325	2730	0.0004	0.0006	0.0009	0.0013	0.0016	0.0020	0.0022	0.0024	0.0027	0.0028	0.0030	0.0032	0.0034	0.0035	0.0037	0.0040	0.0041
S71	0.2599	0.5325	2732	0.0003	0.0006	0.0009	0.0011	0.0014	0.0018	0.0020	0.0023	0.0026	0.0027	0.0029	0.0031	0.0032	0.0034	0.0035	0.0037	0.0039
S72	0.2598	0.5323	2736	0.0004	0.0007	0.0009	0.0013	0.0016	0.0020	0.0023	0.0025	0.0028	0.0029	0.0031	0.0032	0.0034	0.0036	0.0039	0.0041	0.0044
S73	0.2603	0.5328	2724	0.0003	0.0006	0.0009	0.0013	0.0014	0.0018	0.0021	0.0023	0.0026	0.0028	0.0029	0.0031	0.0033	0.0034	0.0036	0.0039	0.0042
S74	0.2602	0.5326	2726	0.0004	0.0005	0.0008	0.0012	0.0013	0.0016	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0030	0.0031	0.0033	0.0035	0.0037
S75	0.2600	0.5326	2730	0.0004	0.0005	0.0008	0.0011	0.0014	0.0017	0.0020	0.0023	0.0025	0.0027	0.0029	0.0030	0.0033	0.0035	0.0037	0.0039	0.0042
Ave.	0.2600	0.5325	2732	0.0003	0.0006	0.0008	0.0011	0.0014	0.0017	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0031	0.0033	0.0035	0.0037	0.0039
Med.	0.2599	0.5325	2732	0.0004	0.0005	0.0008	0.0012	0.0014	0.0017	0.0019	0.0022	0.0025	0.0026	0.0028	0.0029	0.0031	0.0033	0.0035	0.0037	0.0039
St dev	0.0002	0.0003	5.8543	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003
Min.	0.2595	0.5318	2720	0.0002	0.0004	0.0005	0.0009	0.0011	0.0013	0.0016	0.0018	0.0021	0.0022	0.0024	0.0025	0.0027	0.0029	0.0030	0.0031	0.0033
Max.	0.2605	0.5329	2742	0.0004	0.0007	0.0009	0.0013	0.0016	0.0020	0.0023	0.0025	0.0028	0.0029	0.0031	0.0032	0.0035	0.0036	0.0039	0.0041	0.0044

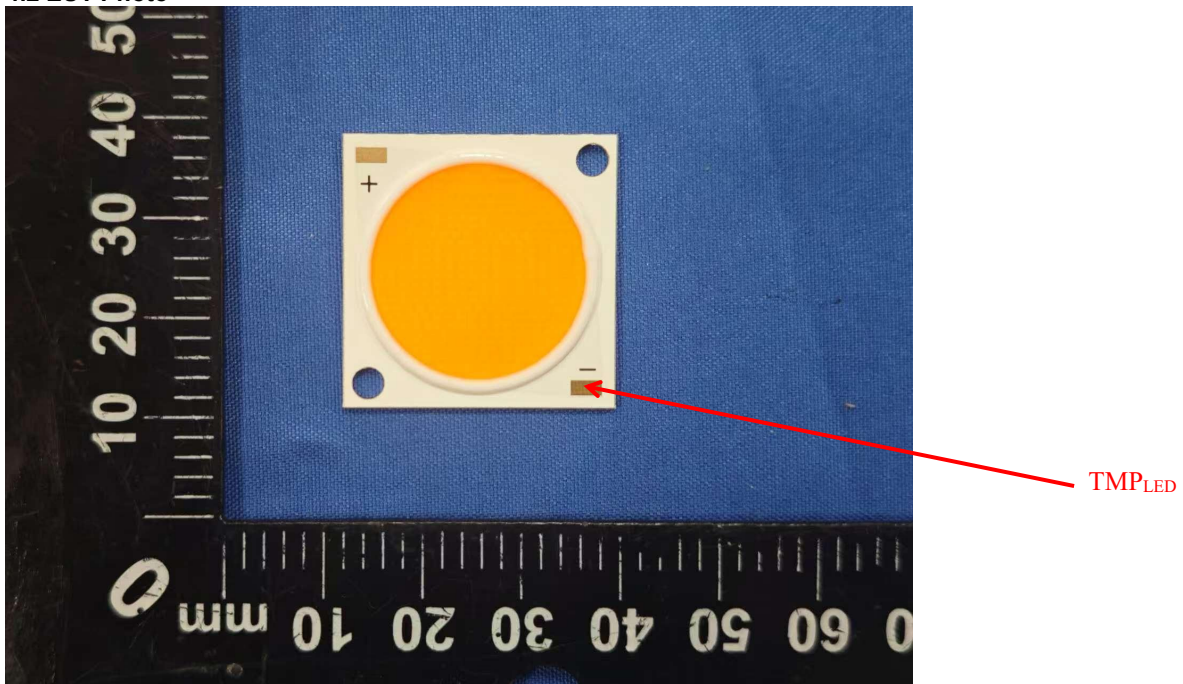
4. EUT Photo

4.1 Mechanical Dimensions



All dimensions are in millimeter

4.2 EUT Photo



---End of Report---