



TEST REPORT

According to ANSI/IES LM-80-15

For

Limited liability company «Tekhnologiya»

Zvorykina str., 2, bldg. 2, room 3, Gusev, Kaliningrad region, 238050, Russian Federation

Model: LED GSLED 5050.V6A.40.40A.70.620

Report Type: 6000 Hours Test Report		Product Type: LED Package	
Reviewed By:	Pote Wang <i>Pote Wang</i>		
Report Number:	DG3230420-20861E-EE-6000		
Test Date:	2023-04-25 to 2024-01-03		
Report Date:	2024-04-19		
Approved by:	Blake Zhang / EE Engineer		
Prepared By:	Bay Area Compliance Laboratories Corp. (Dongguan). No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China. Tel: +86-0769-86858888 Fax:+86-0769-86858588		

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1 - General Information

1.1 Description of LED Light Sources[#]

Sample Size:

50 PCS test samples were in good condition and received on 2023-04-20. The samples were numbered from 1 to 25 and 26 to 50.

Manufacturer:	Limited liability company «Tekhnologiya»
Part Number:	LED GSLED 5050.V6A.40.40A.70.620
Part Type:	LED Package
Drive Level:	DC 200mA
Nominal CCT:	4000K
Power:	1.1W
Average Current Density per LED die:	44mA/mm ²
Average Power Density per LED die:	0.25W/mm ²
CRI:	70
Die Spacing:	0.2mm

Sampling Method:

LED samples for IESNA LM-80 testing consist of units built from a minimum of 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.

1.2 Standards and Reference Documentations

- ANSI/IES LM-80-15: IES Approved Method for Measuring Lumen Maintenance of LED Light Sources.
- CIE 127:2007: Measurement of LEDs
- ENERGY STAR[®] Requirements for the Use of LM-80 Data (This standard was not accredited by IAS)

1.3 Testing Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
High Accuracy Array Spectroradiometer	EVERFINE	HAAS 2000	P600674CM5391140	2023-09-02	2024-09-11
0.5M Integrating Sphere	EVERFINE	0.5m	NA	2023-09-02	2024-09-11
LED Test Source	EVERFINE	LTS-300	P185616CJ1391143	2023-09-02	2024-09-11
Standard Light Source	EVERFINE	D062	M133799CM1381112	2023-05-12	2025-05-11
Multilayer aging machine	BACL	B2-270	20023	2023-10-16	2024-10-15
Digital CC&CV DC Power Supply	EVERFINE	WY5015	11060010	2023-09-02	2024-09-01

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 ±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°C ± 2°C, RH <65%.

1.6 Photometric Measurement Method and Uncertainty

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 ±0.5% of the nominal value. The test system was calibrated by halogen reference lamp. The ambient temperature during test was set to 25°C ± 2°C, 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 measurements is U=1.59% (K=2), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is U=21K (K=2), at the 95% confidence level.

The uncertainty of the temperature is U=0.8671°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, 200mA

Part Number: LED GSLED 5050.V6A.40.40A.70.620
Number of Units: 25
Case Temperature: >53°C
Ambient Temperature: >50°C
Life Test Drive Current: 200mA
Measurement Current: 200mA

Data Set 2: 85°C, 200mA

Part Number: LED GSLED 5050.V6A.40.40A.70.620
Number of Units: 25
Case Temperature: >83°C
Ambient Temperature: >80°C
Life Test Drive Current: 200mA
Measurement Current: 200mA

2 - Summary of Test Result

Data Set:	Sample Size	Failures Observed:	Test Interval	Test Duration	α	β	Reported TM-21 L ₇₀ Lifetime
1	25	0	1000hrs	6000hrs	2.146E-06	1.003	>36000 hours
2	25	0	1000hrs	6000hrs	2.321E-06	1.003	>36000 hours

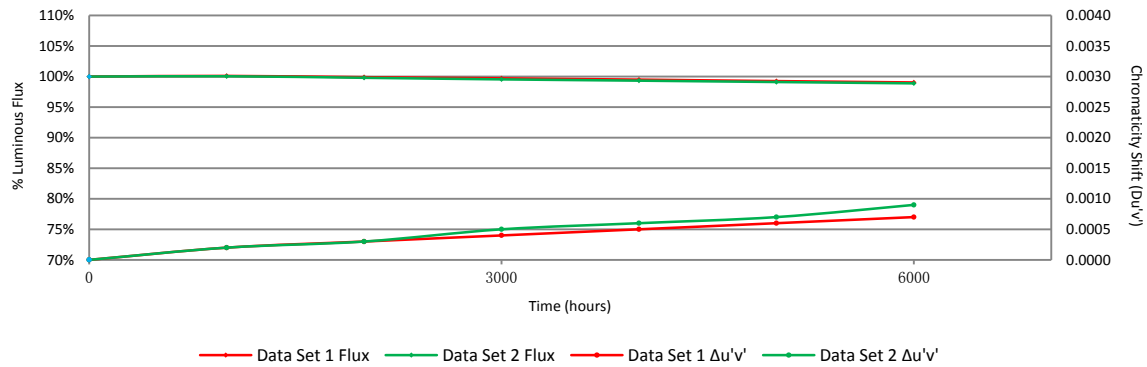
Average Lumen Maintenance (Percentage of Initial Luminous Flux)

Data Set:	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	100.11%	99.90%	99.71%	99.50%	99.26%	99.04%
2	100.05%	99.80%	99.54%	99.33%	99.11%	98.89%

Average Chromaticity Shift

Data Set:	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007
2	0.0002	0.0003	0.0005	0.0006	0.0007	0.0009

Average Lumen Maintenance and Chromaticity Shift VS. Time



3 - Test Data

3.1 Data Set 1, 55°C, 200mA (Lumen Maintenance)

No.	Φ(lm)	Lumen Maintenance (%)					
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	226.80	100.09	99.91	99.60	99.56	99.43	99.12
2	226.90	99.91	99.78	99.65	99.56	99.34	99.25
3	229.60	100.04	99.78	99.65	99.30	99.17	99.09
4	229.60	100.13	99.91	99.74	99.65	99.43	99.09
5	229.80	100.09	99.96	99.83	99.65	99.48	99.04
6	229.10	100.17	99.96	99.74	99.43	99.26	99.08
7	229.40	100.09	99.91	99.78	99.30	99.17	98.74
8	226.40	100.22	99.96	99.73	99.60	99.47	99.38
9	229.60	100.17	99.96	99.70	99.35	99.13	98.95
10	229.20	100.09	99.91	99.65	99.30	99.04	98.87
11	230.30	100.35	100.22	99.87	99.70	99.48	99.26
12	223.90	100.04	99.82	99.64	99.51	99.42	99.15
13	229.50	99.91	99.61	99.52	99.22	99.00	98.87
14	229.50	100.04	99.83	99.61	99.43	98.91	98.78
15	229.70	99.96	99.83	99.74	99.56	99.26	99.04
16	229.40	100.22	99.96	99.74	99.43	99.22	99.00
17	228.60	100.09	99.91	99.65	99.30	99.08	98.86
18	226.60	100.18	99.96	99.82	99.56	98.94	98.90
19	230.20	99.96	99.74	99.57	99.39	99.17	98.91
20	231.50	100.13	99.96	99.74	99.27	99.18	99.09
21	228.80	100.26	100.09	99.91	99.91	99.78	99.74
22	229.60	100.30	100.04	99.83	99.65	99.61	99.35
23	230.60	100.04	99.83	99.70	99.65	98.96	98.53
24	229.10	100.13	99.87	99.56	99.48	99.39	98.82
25	228.50	100.22	99.91	99.74	99.61	99.21	99.04
Avg.	228.89	100.11	99.90	99.71	99.50	99.26	99.04
Med.	229.40	100.09	99.91	99.73	99.51	99.22	99.04
st dev	1.62	0.11	0.12	0.10	0.17	0.22	0.24
Min.	223.90	99.91	99.61	99.52	99.22	98.91	98.53
Max.	231.50	100.35	100.22	99.91	99.91	99.78	99.74

3.2 Data Set 1, 55°C, 200mA (Forward Voltage)

No.	Forward Voltage (V)						
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	5.538	5.533	5.574	5.573	5.583	5.587	5.593
2	5.550	5.528	5.570	5.570	5.639	5.644	5.650
3	5.583	5.576	5.618	5.618	5.639	5.641	5.642
4	5.576	5.571	5.611	5.612	5.652	5.655	5.664
5	5.578	5.571	5.612	5.616	5.652	5.652	5.653
6	5.572	5.568	5.609	5.613	5.627	5.632	5.635
7	5.581	5.577	5.619	5.622	5.636	5.644	5.653
8	5.543	5.534	5.576	5.576	5.636	5.645	5.652
9	5.582	5.572	5.614	5.613	5.646	5.656	5.659
10	5.570	5.566	5.616	5.607	5.610	5.610	5.611
11	5.580	5.575	5.616	5.617	5.621	5.623	5.623
12	5.555	5.550	5.591	5.590	5.595	5.605	5.609
13	5.575	5.565	5.607	5.606	5.611	5.612	5.616
14	5.587	5.581	5.622	5.620	5.631	5.635	5.642
15	5.581	5.573	5.616	5.615	5.624	5.627	5.634
16	5.584	5.572	5.614	5.613	5.624	5.629	5.638
17	5.584	5.575	5.620	5.615	5.633	5.636	5.637
18	5.531	5.521	5.566	5.567	5.569	5.576	5.586
19	5.575	5.569	5.610	5.605	5.625	5.631	5.632
20	5.576	5.568	5.610	5.606	5.614	5.616	5.619
21	5.571	5.564	5.606	5.603	5.612	5.615	5.619
22	5.583	5.574	5.615	5.612	5.627	5.636	5.644
23	5.575	5.567	5.608	5.605	5.624	5.629	5.631
24	5.583	5.577	5.618	5.615	5.636	5.640	5.641
25	5.581	5.575	5.616	5.613	5.623	5.628	5.638
Avg.	5.572	5.564	5.606	5.605	5.624	5.628	5.633
Med.	5.576	5.571	5.612	5.612	5.625	5.631	5.637
st dev	0.016	0.017	0.017	0.016	0.020	0.020	0.020
Min.	5.531	5.521	5.566	5.567	5.569	5.576	5.586
Max.	5.587	5.581	5.622	5.622	5.652	5.656	5.664

3.3 Data Set 1, 55°C, 200mA (Chromaticity Shift)

No.	u'	v'	CCT(K)	Chromaticity Shift ($\Delta u'v'$)						
				0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	0.2236	0.5064	3973	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0002
2	0.2239	0.5064	3964	0.0001	0.0001	0.0003	0.0005	0.0008	0.0009	0.0009
3	0.2239	0.5092	3919	0.0001	0.0004	0.0006	0.0006	0.0008	0.0009	0.0009
4	0.2241	0.5092	3910	0.0002	0.0004	0.0005	0.0005	0.0008	0.0008	0.0008
5	0.2242	0.5095	3905	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005
6	0.2237	0.5093	3923	0.0001	0.0003	0.0005	0.0005	0.0005	0.0005	0.0006
7	0.2236	0.5080	3948	0.0002	0.0004	0.0005	0.0005	0.0006	0.0008	0.0008
8	0.2238	0.5072	3956	0.0001	0.0002	0.0003	0.0005	0.0004	0.0005	0.0005
9	0.2236	0.5091	3930	0.0001	0.0002	0.0004	0.0006	0.0007	0.0008	0.0008
10	0.2237	0.5094	3925	0.0002	0.0006	0.0006	0.0006	0.0006	0.0006	0.0008
11	0.2236	0.5090	3934	0.0001	0.0002	0.0004	0.0006	0.0004	0.0005	0.0005
12	0.2246	0.5070	3929	0.0003	0.0002	0.0002	0.0003	0.0004	0.0006	0.0006
13	0.2238	0.5083	3937	0.0001	0.0003	0.0004	0.0005	0.0006	0.0006	0.0006
14	0.2232	0.5074	3971	0.0001	0.0002	0.0004	0.0005	0.0005	0.0006	0.0006
15	0.2234	0.5092	3935	0.0004	0.0004	0.0004	0.0005	0.0008	0.0009	0.0009
16	0.2236	0.5089	3933	0.0003	0.0005	0.0007	0.0007	0.0007	0.0007	0.0009
17	0.2231	0.5093	3945	0.0004	0.0002	0.0004	0.0005	0.0006	0.0006	0.0006
18	0.2238	0.5065	3965	0.0001	0.0002	0.0002	0.0003	0.0004	0.0004	0.0004
19	0.2236	0.5088	3934	0.0001	0.0002	0.0004	0.0006	0.0007	0.0010	0.0010
20	0.2236	0.5097	3922	0.0002	0.0003	0.0005	0.0007	0.0008	0.0009	0.0009
21	0.2239	0.5084	3932	0.0003	0.0003	0.0006	0.0007	0.0007	0.0007	0.0008
22	0.2240	0.5088	3922	0.0001	0.0001	0.0003	0.0004	0.0006	0.0006	0.0006
23	0.2235	0.5090	3935	0.0003	0.0005	0.0007	0.0007	0.0008	0.0009	0.0009
24	0.2235	0.5080	3953	0.0002	0.0004	0.0005	0.0005	0.0006	0.0008	0.0008
25	0.2237	0.5080	3944	0.0001	0.0001	0.0004	0.0006	0.0006	0.0008	0.0008
Avg.	0.2237	0.5084	3938	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0007
Med.	0.2237	0.5088	3934	0.0001	0.0003	0.0004	0.0005	0.0006	0.0008	0.0008
st dev	0.0003	0.0010	18	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
Min.	0.2231	0.5064	3905	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
Max.	0.2246	0.5097	3973	0.0004	0.0006	0.0007	0.0007	0.0008	0.0010	0.0010

3.4 Data Set 2, 85°C, 200mA (Lumen Maintenance)

No.	Φ(lm)	Lumen Maintenance (%)					
	Ohr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	230.70	100.04	99.78	99.61	99.57	99.48	99.44
27	228.30	100.09	99.82	99.56	99.43	99.08	98.69
28	229.60	99.96	99.78	99.43	99.17	99.00	98.74
29	231.10	100.04	99.78	99.61	98.96	98.75	98.44
30	225.30	100.18	99.78	99.51	99.38	99.25	99.20
31	230.10	99.91	99.78	99.48	99.30	99.17	98.61
32	229.20	100.04	99.78	99.52	99.39	99.35	99.17
33	230.80	99.96	99.70	99.52	99.39	99.13	99.05
34	228.90	100.13	99.96	99.61	99.34	99.08	98.86
35	230.00	100.17	100.04	99.83	99.70	99.48	99.35
36	223.00	100.04	99.73	99.37	99.19	98.97	98.74
37	229.60	100.13	99.83	99.52	99.30	99.17	99.04
38	228.60	100.09	99.96	99.69	99.39	99.26	98.78
39	230.10	100.09	99.83	99.48	99.35	99.04	99.00
40	230.10	100.04	99.78	99.57	99.52	99.35	99.17
41	227.40	100.26	99.96	99.78	99.65	99.60	99.47
42	226.20	100.18	99.91	99.56	99.38	99.16	98.59
43	229.20	99.87	99.61	99.39	99.21	98.78	98.56
44	227.50	100.13	99.82	99.56	99.34	98.86	98.68
45	230.80	99.87	99.61	99.31	99.05	98.87	98.79
46	229.00	100.09	99.74	99.61	99.04	98.78	98.47
47	226.70	100.09	99.91	99.74	99.60	99.21	98.94
48	224.70	100.18	99.91	99.55	99.47	99.11	98.84
49	228.00	99.82	99.47	99.21	98.77	98.73	98.60
50	228.20	99.91	99.74	99.56	99.26	99.08	99.04
Avg.	228.52	100.05	99.80	99.54	99.33	99.11	98.89
Med.	229.00	100.09	99.78	99.56	99.35	99.11	98.84
st dev	2.06	0.11	0.13	0.14	0.22	0.24	0.29
Min.	223.00	99.82	99.47	99.21	98.77	98.73	98.44
Max.	231.10	100.26	100.04	99.83	99.70	99.60	99.47

3.5 Data Set 2, 85°C, 200mA (Forward Voltage)

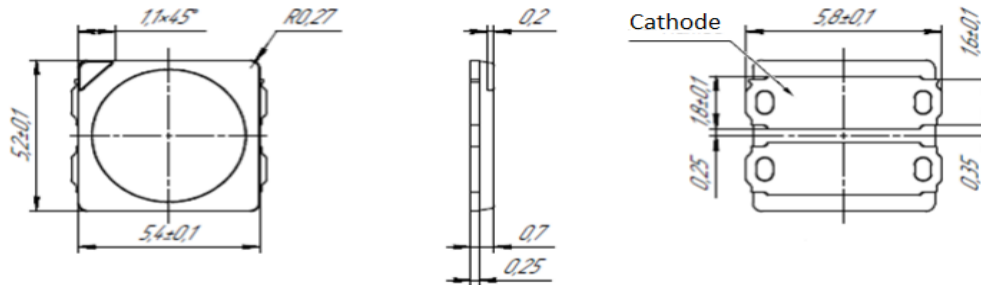
No.	Forward Voltage (V)						
	0hr(Initial)	1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	5.578	5.572	5.614	5.610	5.634	5.638	5.641
27	5.586	5.575	5.619	5.615	5.629	5.638	5.642
28	5.585	5.574	5.616	5.612	5.643	5.651	5.653
29	5.591	5.578	5.621	5.618	5.635	5.635	5.643
30	5.546	5.538	5.579	5.576	5.596	5.605	5.608
31	5.572	5.563	5.606	5.602	5.618	5.628	5.629
32	5.590	5.583	5.625	5.621	5.630	5.637	5.644
33	5.575	5.568	5.610	5.606	5.618	5.619	5.624
34	5.573	5.564	5.606	5.602	5.615	5.620	5.623
35	5.592	5.576	5.618	5.615	5.624	5.625	5.635
36	5.539	5.534	5.624	5.572	5.581	5.583	5.586
37	5.576	5.569	5.613	5.607	5.644	5.645	5.646
38	5.569	5.564	5.578	5.603	5.627	5.630	5.633
39	5.578	5.570	5.615	5.609	5.629	5.633	5.635
40	5.578	5.570	5.613	5.609	5.625	5.633	5.637
41	5.578	5.569	5.613	5.607	5.636	5.642	5.643
42	5.536	5.528	5.572	5.566	5.585	5.589	5.589
43	5.578	5.571	5.607	5.608	5.636	5.639	5.643
44	5.588	5.580	5.623	5.616	5.655	5.664	5.672
45	5.587	5.581	5.625	5.618	5.639	5.641	5.650
46	5.585	5.578	5.622	5.615	5.637	5.640	5.643
47	5.567	5.561	5.606	5.600	5.647	5.654	5.659
48	5.532	5.526	5.570	5.564	5.627	5.634	5.637
49	5.572	5.563	5.609	5.602	5.645	5.654	5.659
50	5.576	5.567	5.613	5.606	5.631	5.633	5.638
Avg.	5.573	5.565	5.609	5.603	5.627	5.632	5.636
Med.	5.578	5.569	5.613	5.607	5.630	5.635	5.641
st dev	0.017	0.016	0.016	0.016	0.018	0.019	0.020
Min.	5.532	5.526	5.570	5.564	5.581	5.583	5.586
Max.	5.592	5.583	5.625	5.621	5.655	5.664	5.672

3.6 Data Set 2, 85°C, 200mA (Chromaticity Shift)

No.	u'	v'	CCT(K)	Chromaticity Shift ($\Delta u'v'$)					
	Ohr(Initial)			1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
26	0.2238	0.5093	3921	0.0001	0.0002	0.0003	0.0004	0.0005	0.0007
27	0.2238	0.5078	3946	0.0002	0.0002	0.0002	0.0004	0.0005	0.0006
28	0.2235	0.5091	3934	0.0002	0.0004	0.0006	0.0006	0.0008	0.0010
29	0.2232	0.5083	3959	0.0002	0.0004	0.0006	0.0006	0.0006	0.0007
30	0.2236	0.5064	3974	0.0001	0.0005	0.0004	0.0006	0.0007	0.0009
31	0.2236	0.5101	3916	0.0003	0.0005	0.0009	0.0009	0.0010	0.0011
32	0.2236	0.5081	3949	0.0000	0.0001	0.0004	0.0004	0.0005	0.0007
33	0.2235	0.5086	3944	0.0002	0.0003	0.0005	0.0006	0.0007	0.0008
34	0.2236	0.5086	3937	0.0001	0.0003	0.0004	0.0004	0.0005	0.0008
35	0.2240	0.5088	3922	0.0001	0.0002	0.0004	0.0006	0.0006	0.0008
36	0.2240	0.5066	3959	0.0001	0.0001	0.0004	0.0004	0.0005	0.0006
37	0.2238	0.5079	3943	0.0002	0.0004	0.0007	0.0007	0.0008	0.0010
38	0.2234	0.5089	3940	0.0001	0.0004	0.0005	0.0006	0.0007	0.0010
39	0.2234	0.5088	3942	0.0001	0.0002	0.0004	0.0004	0.0006	0.0008
40	0.2233	0.5085	3950	0.0001	0.0002	0.0002	0.0003	0.0005	0.0006
41	0.2237	0.5086	3935	0.0001	0.0001	0.0003	0.0004	0.0005	0.0006
42	0.2236	0.5059	3984	0.0001	0.0002	0.0002	0.0004	0.0006	0.0007
43	0.2233	0.5078	3964	0.0004	0.0004	0.0006	0.0007	0.0009	0.0011
44	0.2233	0.5077	3964	0.0002	0.0003	0.0006	0.0007	0.0008	0.0010
45	0.2233	0.5084	3954	0.0001	0.0001	0.0004	0.0005	0.0006	0.0009
46	0.2232	0.5082	3959	0.0004	0.0005	0.0008	0.0009	0.0011	0.0013
47	0.2239	0.5095	3915	0.0002	0.0002	0.0005	0.0005	0.0007	0.0008
48	0.2231	0.5061	3997	0.0004	0.0005	0.0007	0.0008	0.0010	0.0011
49	0.2236	0.5097	3923	0.0002	0.0004	0.0008	0.0008	0.0009	0.0012
50	0.2238	0.5087	3931	0.0002	0.0004	0.0005	0.0007	0.0009	0.0013
Avg.	0.2236	0.5083	3946	0.0002	0.0003	0.0005	0.0006	0.0007	0.0009
Med.	0.2236	0.5085	3944	0.0002	0.0003	0.0005	0.0006	0.0007	0.0008
st dev	0.0003	0.0011	21	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
Min.	0.2231	0.5059	3915	0.0000	0.0001	0.0002	0.0003	0.0005	0.0006
Max.	0.2240	0.5101	3997	0.0004	0.0005	0.0009	0.0009	0.0011	0.0013

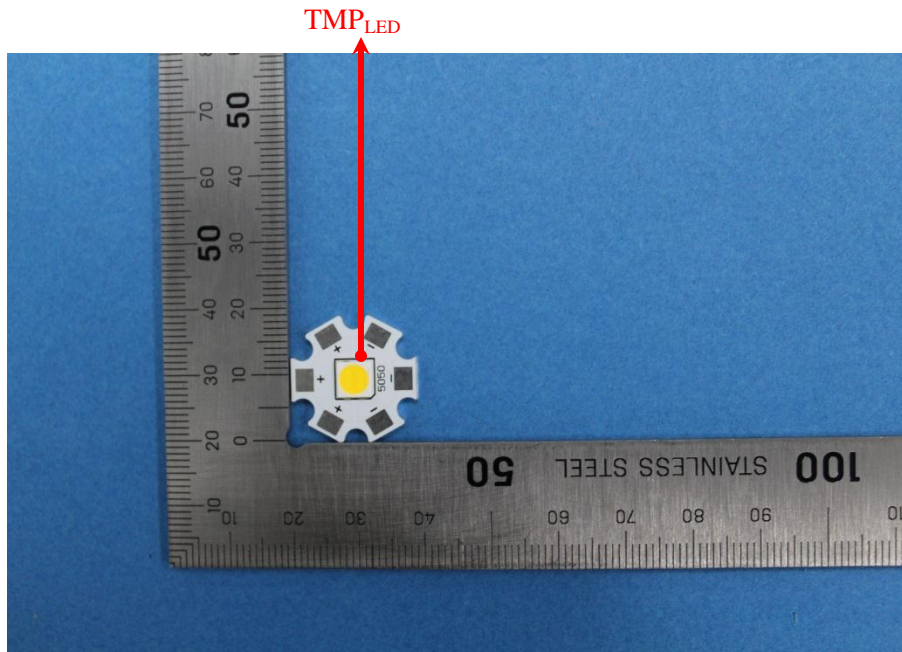
4 - DUT Photo

4.1 Mechanical Dimensions



All dimensions are in millimeter

4.2 DUT Photo



Directions

1. The information marked “superscript #” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $K=2$ with the 95% confidence interval.
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*****END OF REPORT*****