LM-80 TEST REPORT

The following tested product(s) were submitted and identified by the vendor as:

Applicant	:	EVERLIGHT ELECTRONICS CO., LTD
Address of Applicant	:	No. 6-8, Zhonghua Rd., Shulin Dist., New Taipei City 23860, Taiwan
Organization	:	Everlight Electronics Co., LTD
Testing Laboratory	:	Reliability Lab, Everlight Electronics
Testing Address	:	No.25, Lane 76, Sec. 3, Chung Yang Road, Tucheng, New Taipei City 23673, Taiwan
Product Name	:	Low Power LED
Model/ Serial Number	:	67-23ST Series
Manufacturer	:	Everlight Electronics Co., LTD
Rating	:	DC 120 mA
Test Standard/Method	:	IES LM-80-15 Approved Method: Measuring Lumen Maintenance of LED Light Sources
Revision	:	1

1. The submitted products have been tested as requested and the following results were obtained, and the report, not applicable for lawsuit, refers only to the unit(s) submitted for test.
2. This report will be invalid if reproduced in whole in part.
3. This report is only valid with the examination seal and signature of this institute.

Signed for and on behalf of
EVERLIGHT Ltd.

Alan Ke

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1 DATE OF RECEIPT OF SAMPLES

Aug. 10, 2020

2 DATE(S) OF PERFORMANCE OF THE TEST

Aug. 28, 2020 ~ Jan. 26, 2022

3 MATERIAL / SERIAL NUMBER

4 IDENTITY OF SAMPLES

Quantity	Model	Serial Number
20	67-23ST Series	#A01-#A20(55 °C)
20	67-23ST Series	#B01-#B20(105 °C)

5 TEST ITEMS

5.1 Date Summary of Lumen and Color Maintenance

Test results were concluded by different Temperatures (Ts)

5.2 Lumen Maintenance and Color Maintenance Test

Testing specifications by different case temperatures according to IES LM-80-15 approved.
Method: Measuring Lumen Maintenance of LED Light Sources and client's requirements were implemented per the following items.

5.2.1 Total Luminous Flux(Φv)

The test results of total luminous flux were implemented referring to Clause 2 PROPERTIES OF LEDS & Clause 6 MEASUREMENT OF LUMINOUS FLUX of CIE127:2007 2nd edition MRASUREMENT OF LEDS and IES LM-80-15 Approved Method: Measuring Lumen Maintenance of LED Light Sources, when the UUTs were powered with constant current of I_F.

5.2.2 Correlated Color Temperature (CCT), CIE Color Coordinate (CIEx, CIEy) & Chromaticity shift(Δu', Δv')

The test results of correlated color temperature were implemented referring to CIE 127:2007 2nd editions MRASUREMENT OF LEDS, CIE 15:2004 COLORIMETY.
The test results of color coordinate were implemented referring to CIE 127:2007 2nd edition MRASUREMENT OF LEDS, CIE 15:2004 COLORIMETRY

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6 TESTING LABORATORY IS ACCREDITED BY

6.1 ISO 17025 accredited in respect of laboratory is approved by TAF Certificate No. : L2773-190717
6.2 EPA-Recognized Laboratories No.: 1125371

7 TEST CONDITIONS

7.1 Main Test Equipment:

Name	Brand	Model	Traceability	Calibration Date	Due Date
Spectroradiometer	Photal	LE-5400	NVLAP (200951-0)	2018/11/30	2022/3/29
Integrating Sphere	Labsphere	LMS-100CM			
Standard Light Source	Labsphere	SCL-1400			
Source Meter	Keithley	2612A	SGS (TAF 0143)	2021/2/9	2022/2/8
Source Meter	Agilent	N5751A	SGS (TAF 0143)	2021/5/5	2022/5/4
Digital Multimeter	Agilent	E3634A	SGS (TAF 0143)	2021/5/5	2022/5/4

7.2 Environmental Conditions:

Temperature:	(25 ± 1) °C
Relative Humidity:	< 65 %RH

7.3 Measurement Conditions:

Interval Time:	1000 h
Warm up Time:	< 1 minute (initial)
Relative measurement uncertainty:	1.1 % (95 % Confidence Level)

7.4 UUT Conditions:

Drive Current:	DC 120 mA
Forward Voltage:	9.1 V
Power Consumption:	1.09 W (Rated Value)
Lumen:	130 lm – 140 lm
CCT:	3000 K
Package Dimension:	L 2.8 mm x W 3.5 mm
Prior operation:	0 h
Total Operation Duration:	10000 h

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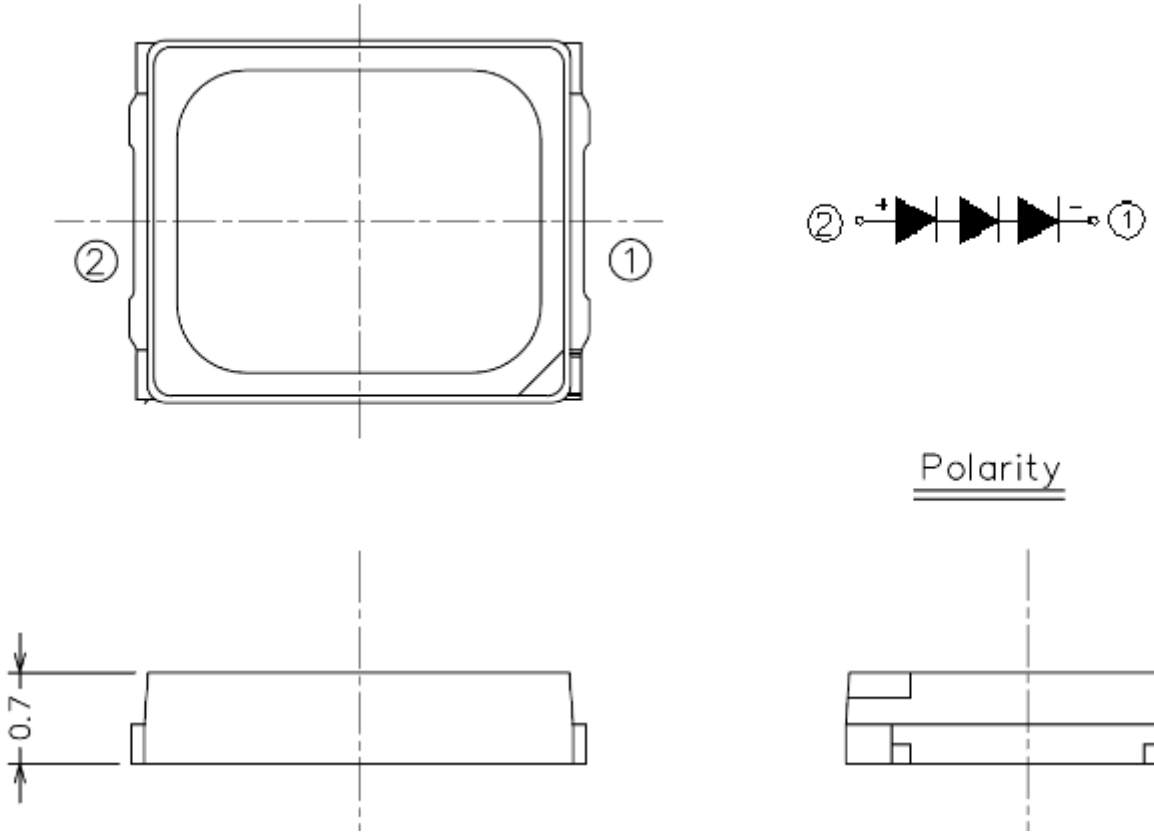
7.5 Photograph of device



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8 TEST SUMMARY:

8.1 Data Summary of Lumen and Color Maintenance

Initial(0 h)			Luminous Maintenance (%)										
Temp.	TLF (lm)	Vf(V)	0 h	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
55 °C	134.4	9.11	100%	99.72%	99.56%	99.37%	99.17%	98.89%	98.60%	98.40%	98.12%	97.67%	97.27%
105 °C	133.7	9.04	100%	99.21%	98.91%	98.59%	98.32%	97.95%	97.58%	97.18%	96.77%	96.47%	95.86%

Initial(0 h)				Chromaticity Shift (Δu'v')									
Temp.	CIE u'	CIE v'	CCT	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
55 °C	0.2484	0.5214	3072	0.0009	0.0012	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0032	0.0037
105 °C	0.2487	0.5218	3062	0.0011	0.0013	0.0015	0.0018	0.0020	0.0023	0.0026	0.0031	0.0035	0.0041

8.2 Determination Results

Item	Temp	Criteria(at10000Hrs)	Determination
(lm)	55 ℃	>90%	Pass
(lm)	105 ℃	>90%	Pass

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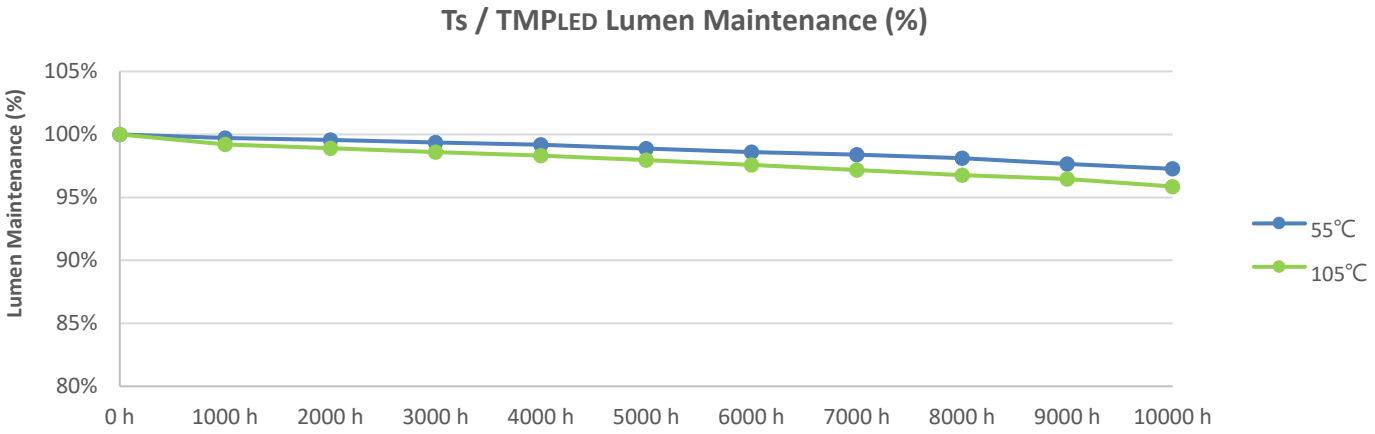
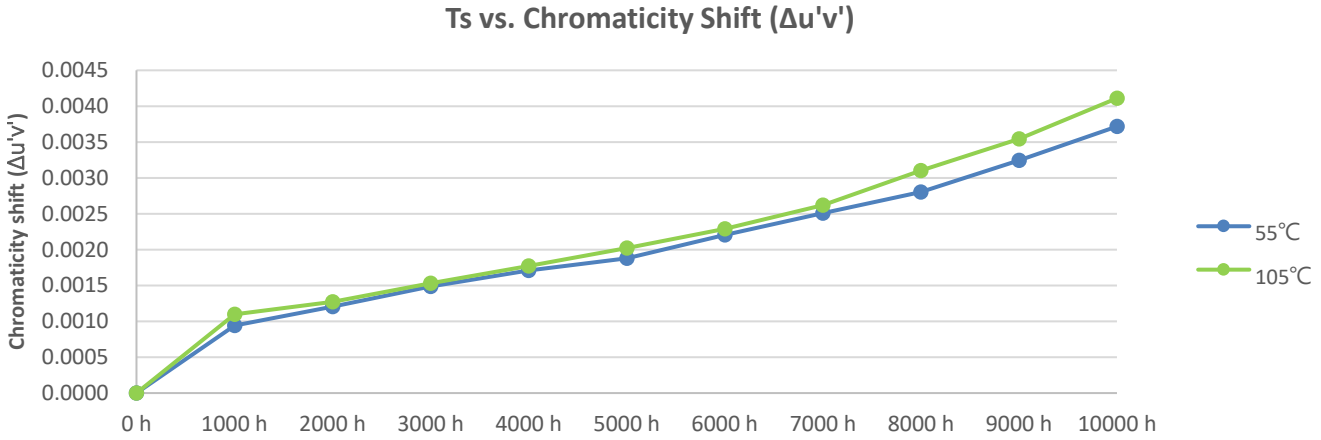
8.3 Chart of lumen maintenance and TM-21 projection

8.3.1 Chart of lumen maintenance





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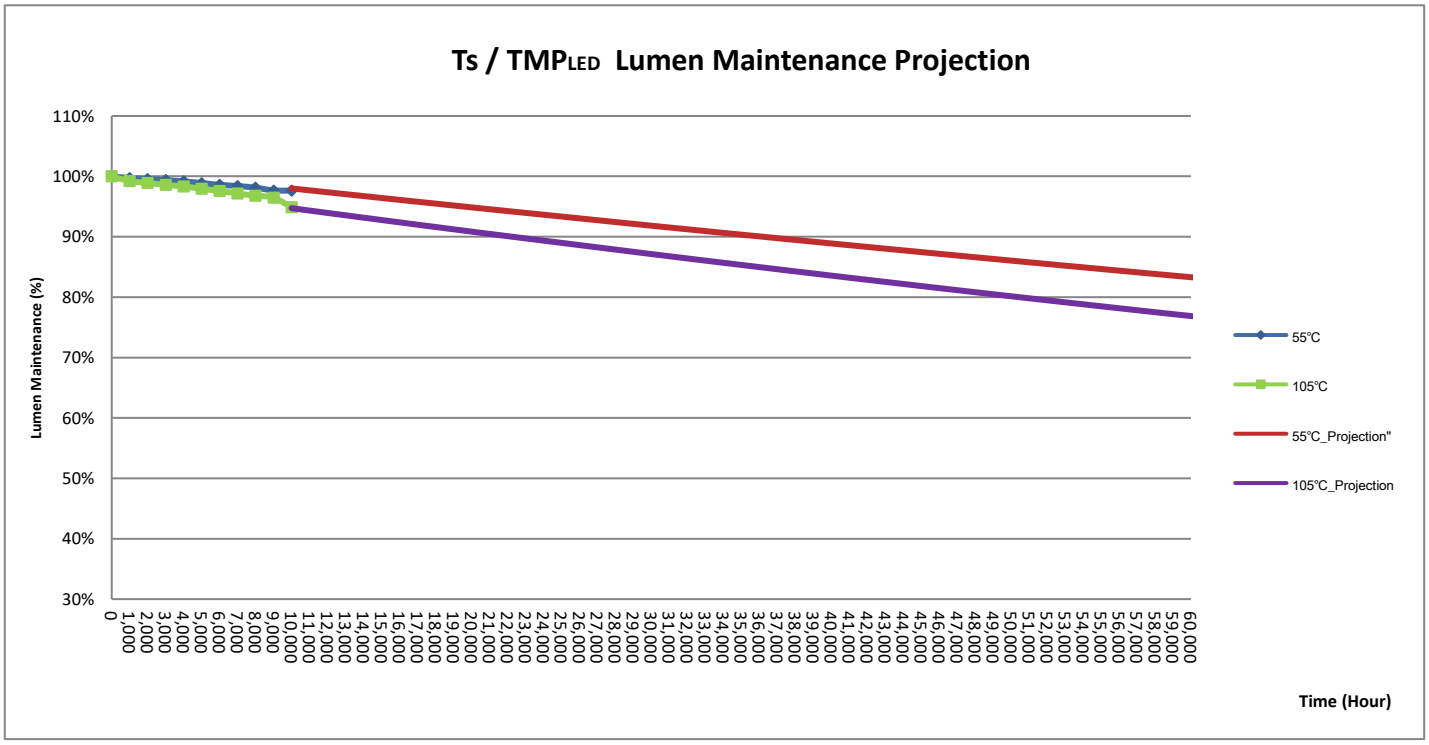
8.3.2 LM-80 test and TM-21 Projectio

Table 1: Report at each LM-80 Test Condition			
Case Temperature 1		Case Temperature 2	
Temperature (ºC):	55	Temperature (ºC):	105
Temperature (ºK):	328.15	Temperature (ºK):	378.15
α:	3.25E-06	α:	4.18E-06
B:	1.01	B:	1.00
Reported L70 (hrs):	>60000	Reported L70 (hrs):	>60000



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Lumen Maintenance and Color Maintenance Test

8.3.3 Test Condition: Ts = 55 ºC

Requirement	
Case Temperature [Ts]: 54.3 ºC	Average [Ts]: 54.3 ºC
Ambient Temperature [Ta]: 53.5 ºC	Average [Ta]: 53.5 ºC
Driver Current: 120mA	Air Flow: Minimized
Measurement Current: 120mA	Relative Humility: < 65 %RH

8.3.3.1 Total Luminous Flux (Φv)

S/N	Initial(0 h)		Luminous Maintenance(Φv)									
	TLF(lm)	Vf(V)	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
A01	133.7	9.10	100.38%	100.30%	100.21%	99.69%	99.66%	99.54%	99.43%	98.95%	98.41%	97.73%
A02	134.8	9.17	99.34%	99.29%	99.08%	98.92%	98.28%	98.20%	98.28%	98.19%	97.78%	97.67%
A03	134.4	9.14	99.60%	99.52%	99.33%	98.96%	99.12%	98.70%	98.67%	98.16%	98.29%	97.96%
A04	134.3	9.11	99.81%	99.58%	99.35%	99.31%	98.77%	98.73%	98.93%	98.65%	97.82%	97.14%
A05	135.5	9.11	99.84%	99.82%	99.74%	99.61%	98.95%	98.59%	98.72%	98.72%	97.72%	97.24%
A06	136.0	9.10	99.94%	99.79%	99.60%	99.19%	99.00%	98.60%	98.18%	98.05%	97.04%	97.01%
A07	136.3	9.11	99.53%	99.34%	99.09%	99.04%	98.51%	98.13%	97.92%	97.37%	97.49%	96.99%
A08	134.7	9.14	99.49%	99.35%	99.29%	98.92%	98.92%	98.63%	98.48%	98.43%	97.45%	97.00%
A09	133.6	9.10	99.66%	99.40%	99.23%	98.85%	98.88%	98.81%	98.40%	98.19%	97.75%	97.23%
A10	129.9	9.10	99.84%	99.60%	99.41%	99.20%	99.11%	98.56%	97.97%	97.95%	97.16%	96.46%
A11	132.5	9.10	99.31%	99.04%	98.74%	98.70%	98.03%	97.68%	97.57%	97.33%	97.07%	96.86%
A12	135.5	9.12	99.47%	99.27%	99.18%	99.04%	98.62%	98.40%	98.09%	97.39%	97.29%	96.83%
A13	133.5	9.11	99.83%	99.77%	99.62%	99.58%	99.23%	99.13%	98.87%	98.70%	98.00%	97.30%
A14	135.4	9.12	99.65%	99.37%	99.07%	99.07%	98.82%	98.22%	98.56%	98.50%	97.30%	97.13%
A15	135.5	9.11	99.55%	99.29%	99.10%	99.16%	98.37%	98.17%	97.95%	97.41%	97.18%	96.88%
A16	132.7	9.07	100.48%	100.27%	100.22%	99.98%	100.16%	99.68%	98.96%	98.90%	98.60%	98.03%
A17	134.3	9.08	99.56%	99.38%	99.09%	99.19%	98.52%	98.49%	98.49%	98.02%	97.94%	97.60%
A18	135.4	9.08	100.01%	99.82%	99.53%	99.13%	99.38%	98.71%	98.60%	98.27%	98.41%	98.29%
A19	135.0	9.08	99.72%	99.60%	99.32%	98.82%	98.88%	98.51%	98.00%	97.66%	97.43%	97.27%
A20	134.9	9.11	99.34%	99.33%	99.20%	99.02%	98.49%	98.49%	97.97%	97.57%	97.22%	96.70%
Avg.	134.4	9.11	99.72%	99.56%	99.37%	99.17%	98.89%	98.60%	98.40%	98.12%	97.67%	97.27%
Min.	129.9	9.07	99.31%	99.04%	98.74%	98.70%	98.03%	97.68%	97.57%	97.33%	97.04%	96.46%
Max.	136.3	9.17	100.48%	100.30%	100.22%	99.98%	100.16%	99.68%	99.43%	98.95%	98.60%	98.29%
Med.	134.7	9.11	99.66%	99.46%	99.31%	99.10%	98.88%	98.57%	98.44%	98.17%	97.60%	97.19%
STD.	1.5	0.02	0.003	0.003	0.004	0.003	0.005	0.005	0.005	0.005	0.005	0.005

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8.3.3.2 CCT, CIEx, CIEy & Chromaticity Shift(△u'v')

S/N	Initial(0 h)			Chromaticity Shift(△u'v')									
	CIEx	CIEy	CCT	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
A01	0.4345	0.4064	3077	0.0004	0.0006	0.0009	0.0011	0.0011	0.0017	0.0021	0.0022	0.0029	0.0029
A02	0.4317	0.4031	3099	0.0009	0.0014	0.0015	0.0018	0.0018	0.0023	0.0026	0.0031	0.0033	0.0035
A03	0.4308	0.3998	3088	0.0007	0.0012	0.0016	0.0020	0.0022	0.0026	0.0028	0.0030	0.0031	0.0031
A04	0.4298	0.3999	3106	0.0011	0.0012	0.0015	0.0016	0.0016	0.0016	0.0020	0.0025	0.0029	0.0035
A05	0.4344	0.4057	3073	0.0009	0.0010	0.0014	0.0018	0.0021	0.0025	0.0031	0.0031	0.0034	0.0041
A06	0.4368	0.4026	3007	0.0005	0.0008	0.0011	0.0015	0.0018	0.0023	0.0028	0.0030	0.0032	0.0039
A07	0.4333	0.4058	3092	0.0009	0.0013	0.0018	0.0020	0.0021	0.0025	0.0028	0.0030	0.0037	0.0042
A08	0.4320	0.4042	3102	0.0009	0.0013	0.0014	0.0016	0.0018	0.0020	0.0024	0.0030	0.0036	0.0043
A09	0.4309	0.4035	3116	0.0007	0.0009	0.0010	0.0010	0.0011	0.0012	0.0014	0.0018	0.0024	0.0026
A10	0.4341	0.4061	3081	0.0010	0.0014	0.0014	0.0016	0.0016	0.0021	0.0023	0.0028	0.0033	0.0037
A11	0.4394	0.4072	3001	0.0013	0.0016	0.0020	0.0020	0.0023	0.0029	0.0029	0.0032	0.0039	0.0046
A12	0.4416	0.4110	2995	0.0009	0.0010	0.0014	0.0018	0.0021	0.0022	0.0027	0.0033	0.0037	0.0042
A13	0.4344	0.4058	3074	0.0007	0.0007	0.0011	0.0014	0.0018	0.0021	0.0024	0.0027	0.0033	0.0040
A14	0.4325	0.4059	3107	0.0018	0.0023	0.0028	0.0028	0.0028	0.0031	0.0036	0.0040	0.0046	0.0053
A15	0.4303	0.4020	3114	0.0014	0.0017	0.0020	0.0023	0.0024	0.0024	0.0028	0.0030	0.0032	0.0038
A16	0.4357	0.4077	3067	0.0009	0.0010	0.0014	0.0014	0.0017	0.0019	0.0020	0.0024	0.0030	0.0037
A17	0.4370	0.4067	3037	0.0005	0.0007	0.0009	0.0013	0.0013	0.0019	0.0019	0.0019	0.0024	0.0031
A18	0.4342	0.4043	3065	0.0011	0.0011	0.0012	0.0015	0.0017	0.0017	0.0017	0.0022	0.0023	0.0025
A19	0.4344	0.4075	3087	0.0011	0.0012	0.0017	0.0020	0.0024	0.0029	0.0032	0.0032	0.0034	0.0035
A20	0.4368	0.4080	3050	0.0013	0.0017	0.0017	0.0020	0.0021	0.0023	0.0027	0.0028	0.0036	0.0041
Avg.	0.4342	0.4052	3072	0.0009	0.0012	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0032	0.0037
Min.	0.4298	0.3998	2995	0.0004	0.0006	0.0009	0.0010	0.0011	0.0012	0.0014	0.0018	0.0023	0.0025
Max.	0.4416	0.4110	3116	0.0018	0.0023	0.0028	0.0028	0.0028	0.0031	0.0036	0.0040	0.0046	0.0053
Med.	0.4343	0.4058	3079	0.0009	0.0012	0.0014	0.0017	0.0018	0.0023	0.0027	0.0030	0.0033	0.0037
STD.	0.0031	0.0028	36.84	0.0003	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0006	0.0007

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8.3.4 Test Condition: Ts = 105 ºC

Requirement	
Case Temperature [Ts]: 104.3 ºC	Average [Ts]: 104.3 ºC
Ambient Temperature [Ta]: 103.6 ºC	Average [Ta]: 103.6 ºC
Driver Current: 120mA	Air Flow: Minimized
Measurement Current: 120mA	Relative Humility: < 65 %RH

8.3.4.1 Total Luminous Flux (Φv)

S/N	Initial(0 h)		Luminous Maintenance(Φv)									
	TLF(lm)	Vf(V)	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
B01	135.4	9.07	99.12%	99.04%	99.02%	98.03%	97.54%	97.12%	96.87%	95.75%	95.44%	95.22%
B02	135.6	9.06	98.91%	98.96%	98.65%	98.27%	97.99%	97.84%	97.05%	97.29%	97.39%	96.58%
B03	134.5	9.35	99.19%	98.38%	97.98%	97.71%	97.06%	96.88%	96.40%	96.62%	96.04%	95.52%
B04	130.8	9.07	99.30%	99.11%	98.56%	98.88%	98.47%	98.07%	97.35%	97.34%	97.49%	96.94%
B05	133.4	9.05	99.42%	99.08%	99.04%	98.16%	98.28%	97.26%	96.56%	96.57%	96.75%	96.58%
B06	136.5	9.07	99.27%	99.04%	98.73%	98.70%	98.56%	97.87%	97.37%	96.68%	96.81%	96.34%
B07	134.4	9.05	99.40%	98.89%	98.37%	98.30%	98.10%	97.86%	97.57%	97.08%	96.64%	96.52%
B08	136.4	9.06	99.32%	99.33%	98.92%	99.00%	98.12%	98.22%	97.79%	97.87%	97.12%	96.35%
B09	132.7	9.02	99.94%	99.49%	98.91%	98.88%	99.05%	98.48%	98.44%	97.86%	97.37%	96.96%
B10	133.8	8.99	99.45%	98.79%	98.74%	97.74%	97.69%	97.15%	97.12%	96.13%	96.16%	95.59%
B11	133.4	8.98	98.92%	98.67%	98.35%	98.40%	97.93%	97.82%	97.47%	97.39%	96.94%	96.63%
B12	135.0	8.98	99.19%	98.78%	98.44%	98.57%	97.64%	97.34%	97.29%	96.30%	95.74%	94.76%
B13	135.3	9.17	99.05%	98.65%	98.39%	98.28%	97.95%	97.21%	97.07%	95.81%	96.02%	95.22%
B14	133.7	8.98	99.57%	98.88%	98.32%	97.99%	97.72%	97.01%	96.46%	96.05%	95.79%	94.89%
B15	132.6	8.97	98.87%	98.35%	97.79%	97.72%	97.09%	97.23%	96.66%	96.25%	95.89%	94.86%
B16	129.0	8.99	99.14%	98.95%	98.77%	98.50%	98.21%	98.41%	97.99%	97.46%	96.41%	95.41%
B17	131.5	8.96	99.15%	99.37%	98.90%	98.50%	98.09%	97.96%	97.70%	97.50%	97.48%	96.97%
B18	134.5	8.99	98.67%	98.59%	98.31%	98.03%	97.60%	97.25%	96.48%	96.99%	96.04%	95.74%
B19	131.3	8.99	99.26%	99.48%	99.23%	98.90%	98.57%	98.00%	97.62%	97.34%	96.98%	96.23%
B20	134.3	9.08	99.16%	98.39%	98.29%	97.90%	97.33%	96.68%	96.31%	95.20%	94.91%	93.93%
Avg.	133.7	9.04	99.21%	98.91%	98.59%	98.32%	97.95%	97.58%	97.18%	96.77%	96.47%	95.86%
Min.	129.0	8.96	98.67%	98.35%	97.79%	97.71%	97.06%	96.68%	96.31%	95.20%	94.91%	93.93%
Max.	136.5	9.35	99.94%	99.49%	99.23%	99.00%	99.05%	98.48%	98.44%	97.87%	97.49%	96.97%
Med.	134.0	9.04	99.19%	98.92%	98.60%	98.29%	97.97%	97.58%	97.20%	96.84%	96.53%	95.98%
STD.	1.9	0.09	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.008	0.007	0.009

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8.3.4.2 CCT, CIEx, CIEy & Chromaticity Shift(△ u'v')

S/N	Initial(0 h)			Chromaticity Shift(△ u'v')									
	CIEx	CIEy	CCT	1000 h	2000 h	3000 h	4000 h	5000 h	6000 h	7000 h	8000 h	9000 h	10000 h
B01	0.4358	0.4061	3052	0.0012	0.0014	0.0017	0.0019	0.0024	0.0022	0.0031	0.0032	0.0039	0.0044
B02	0.4348	0.4066	3073	0.0011	0.0014	0.0014	0.0017	0.0015	0.0018	0.0021	0.0030	0.0031	0.0044
B03	0.4365	0.4045	3027	0.0015	0.0017	0.0019	0.0023	0.0027	0.0028	0.0031	0.0034	0.0040	0.0045
B04	0.4376	0.4081	3038	0.0010	0.0011	0.0011	0.0012	0.0019	0.0021	0.0022	0.0025	0.0025	0.0030
B05	0.4382	0.4067	3017	0.0009	0.0009	0.0011	0.0014	0.0013	0.0017	0.0015	0.0023	0.0031	0.0033
B06	0.4316	0.4044	3111	0.0013	0.0014	0.0016	0.0021	0.0020	0.0028	0.0032	0.0033	0.0038	0.0044
B07	0.4354	0.4077	3072	0.0012	0.0012	0.0018	0.0022	0.0024	0.0028	0.0036	0.0038	0.0043	0.0048
B08	0.4349	0.4081	3083	0.0013	0.0015	0.0016	0.0020	0.0021	0.0028	0.0030	0.0038	0.0044	0.0047
B09	0.4306	0.4026	3114	0.0008	0.0011	0.0014	0.0016	0.0021	0.0025	0.0029	0.0031	0.0037	0.0042
B10	0.4372	0.4036	3008	0.0011	0.0014	0.0014	0.0014	0.0017	0.0018	0.0022	0.0026	0.0034	0.0042
B11	0.4409	0.4105	3002	0.0010	0.0010	0.0015	0.0017	0.0022	0.0018	0.0024	0.0030	0.0031	0.0041
B12	0.4348	0.4054	3064	0.0013	0.0015	0.0016	0.0016	0.0019	0.0023	0.0023	0.0025	0.0033	0.0038
B13	0.4326	0.4045	3094	0.0012	0.0013	0.0016	0.0021	0.0023	0.0028	0.0031	0.0034	0.0034	0.0049
B14	0.4297	0.3964	3079	0.0009	0.0010	0.0015	0.0017	0.0021	0.0020	0.0027	0.0032	0.0041	0.0040
B15	0.4342	0.4055	3075	0.0009	0.0009	0.0013	0.0015	0.0018	0.0025	0.0025	0.0035	0.0043	0.0047
B16	0.4351	0.4076	3076	0.0011	0.0012	0.0015	0.0016	0.0021	0.0025	0.0025	0.0033	0.0036	0.0042
B17	0.4331	0.4071	3106	0.0012	0.0013	0.0017	0.0020	0.0021	0.0025	0.0026	0.0030	0.0032	0.0036
B18	0.436	0.4089	3071	0.0012	0.0013	0.0018	0.0023	0.0020	0.0020	0.0026	0.0034	0.0036	0.0042
B19	0.4365	0.4057	3037	0.0006	0.0010	0.0014	0.0014	0.0018	0.0015	0.0017	0.0023	0.0025	0.0026
B20	0.4359	0.4045	3038	0.0014	0.0018	0.0017	0.0018	0.0021	0.0026	0.0033	0.0035	0.0035	0.0042
Avg.	0.4351	0.4057	3062	0.0011	0.0013	0.0015	0.0018	0.0020	0.0023	0.0026	0.0031	0.0035	0.0041
Min.	0.4297	0.3964	3002	0.0006	0.0009	0.0011	0.0012	0.0013	0.0015	0.0015	0.0023	0.0025	0.0026
Max.	0.4409	0.4105	3114	0.0015	0.0018	0.0019	0.0023	0.0027	0.0028	0.0036	0.0038	0.0044	0.0049
Med.	0.4353	0.4059	3071	0.0012	0.0013	0.0016	0.0017	0.0021	0.0024	0.0026	0.0032	0.0035	0.0042
STD.	0.0026	0.0029	33.28	0.0002	0.0002	0.0002	0.0003	0.0003	0.0004	0.0005	0.0005	0.0005	0.0006

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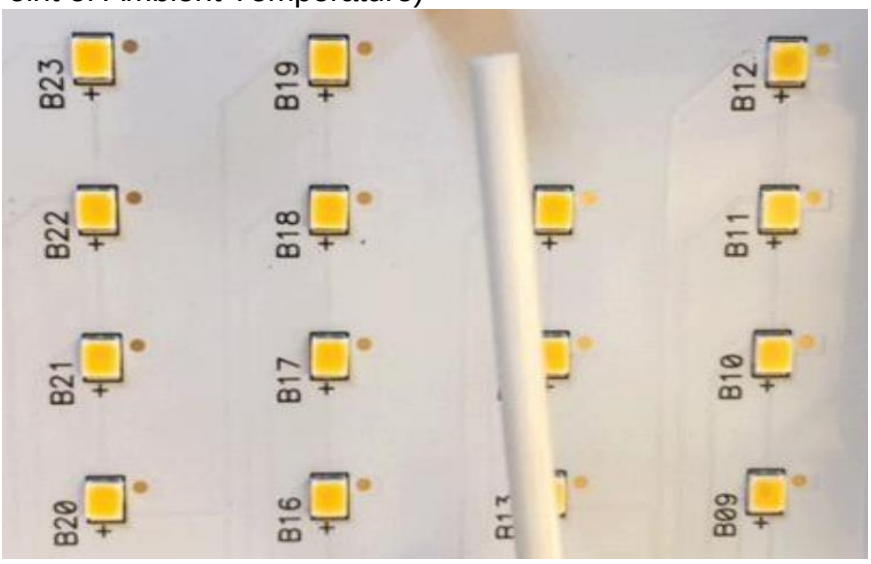
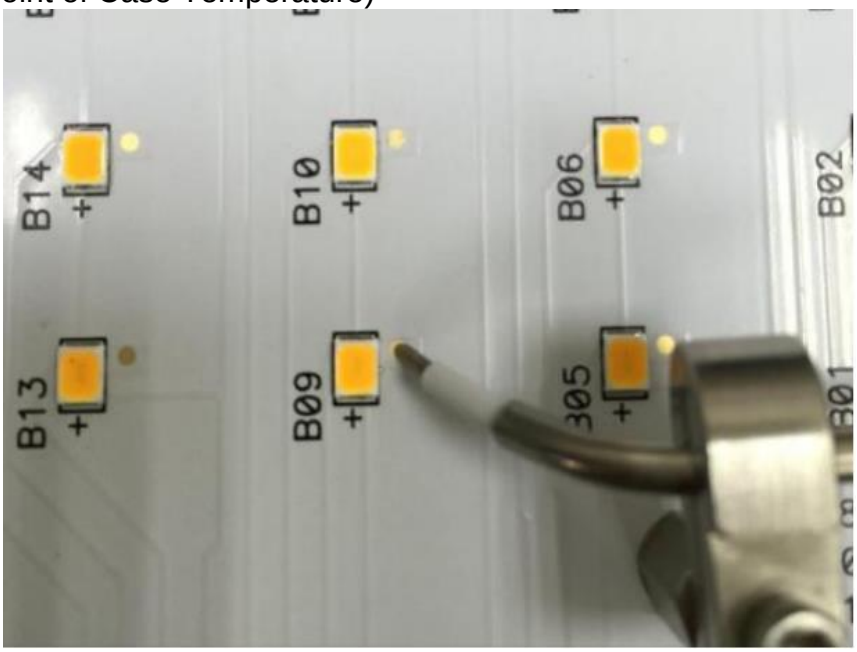
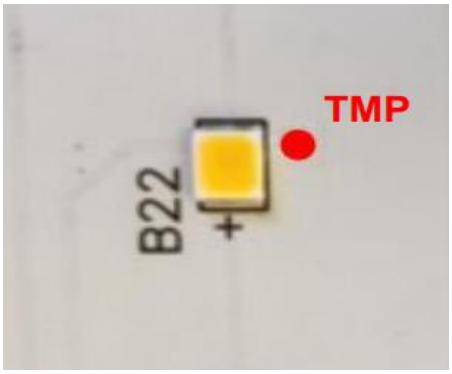
9 TEMPERATURE MEASUREMENT POINT (TMP) DEFINITION

Ta (Measured Point of Ambient Temperature)



Ts (Measured Point of Case Temperature)





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