

# TEST REPORT

**Reference No.** ..... : WTX22F09185175N  
**Applicant** ..... : Guangzhou Tianxin photoelectric Co., Ltd.  
**Address** ..... : #15-1., Jingu Road South, Huadong Town, Huadu District, Guangzhou, China  
**Manufacturer** ..... : The same as above  
**Address** ..... : The same as above  
**Product Name** ..... : LED Chip  
**Model No.** ..... : TX-5060RGBW  
**Test specification** ..... : ANSI/IES LM-80-15  
Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules  
**Date of Receipt sample** .... : 2021-05-18  
**Date of Test** ..... : 2021-05-18 to 2022-09-20  
**Date of Issue** ..... : 2022-09-20  
**Test Report Form No.** ..... : WPL-LM8015A-01A  
**Test Result** ..... : See following pages

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

**Prepared By:**

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Tested by:



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Approved by:



Akin Xu

## 1. Description of Test Samples

### Sample Size:

Total 33 samples were selected in this test. The samples were numbered from A1 to A11, B12 to B22 and C23 to C33.

Part Type: LED Package

Part Number: TX-5060RGBW

Drive Level: DC 1500mA

Nominal CCT: RGBW

Power: 18.6W

Average Current Density per LED die: 1500mA/mm<sup>2</sup>

Average Power Density per LED die: 0.6823W/mm<sup>2</sup>

CRI:

## 2. Standards Used

IESNA LM-80-15: IESNA Approved Method for Measuring Lumen Maintenance of LED Light Sources  
CIE 127:2007: measurement of LEDs

ENERGY STAR® Program Guidance Regarding LED Package, LED Array and LED Module Lumen Maintenance Performance Data Supporting Qualification of Lighting Products (This method was not accredited by CNAS)

IES TM-21-19: PROJECTING LONG-TERM LUMEN, PHOTON, AND RADIANT FLUX MAINTENANCE OF LED LIGHT SOURCES

## 3. Test Facility

The testing facility used by Waltek Testing Group (Foshan) Co., Ltd. is located at No. 13-19, 2/F, 2nd Building, Sunlink International Machinery City, Chencun Town, Shunde District, Foshan, Guangdong, China

## 4. Operating Cycle

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.

## 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 ( $T_{MP_{LED}}$ ) location, while the other is mounted at a distance of 5 mm above the  $T_{MP}$  location.

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

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

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

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

## 6. Photometric Measurement Method

Integrating sphere and spectroradiometer is used to measure luminous flux and chromaticity coordinate  $u'v'$ . 2 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  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , RH <65%. The temperature measurement point was located in the sphere and the temperature was detected by a temperature probe.

## 7. Measurement Uncertainty

The uncertainty of power meter DC current  $U=0.08\%$  of rdg ( $K=2$ ), multimeter DC current  $U=0.20\%$  of rdg ( $K=2$ ), at the 95% confidence level.

The uncertainty of the light output measurements is  $U=1.8\%$  ( $K=2$ ), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is  $U=20\text{K}$  ( $K=2$ ), at the 95% confidence level.

The uncertainty of the temperature is  $U=0.3^{\circ}\text{C}$  ( $K=2$ ), at the 95% confidence level.

## 8. Decision Rules:

For the measurement parameters that need to be assessed for compliance, the measurement uncertainty should be fully considered. In order to avoid mis-judgment on whether the measurement results meet the requirements of the standard, the following decision rules should be used:

For measurements results with only the lower limit of tolerance interval:

- When  $m < T_L + U$ , we directly determine the measurement result as PASS (P).
- When  $m > T_L - U$ , we directly determine the measurement result as FAIL (F).
- When  $T_L - U \leq m \leq T_L + U$ , we determine the measurement result as UNCERTAIN (UC).

For measurements results with only the upper limit of tolerance interval:

- When  $m < T_U - U$ , we directly determine the measurement result as PASS (P).
- When  $m > T_U + U$ , we directly determine the measurement result as FAIL (F).
- When  $T_U - U \leq m \leq T_U + U$ , we determine the measurement result as UNCERTAIN (UC).

For measurements results with the lower and upper limit of tolerance interval:

- When  $T_L + U \leq m \leq T_U - U$ , we directly determine the measurement result as PASS (P).
- When  $m < T_L - U$  and  $m > T_U + U$ , we directly determine the measurement result as FAIL (F).
- When  $T_L - U \leq m \leq T_L + U$  and  $T_U - U \leq m \leq T_U + U$  we determine the measurement result as UNCERTAIN (UC).

Here:

$m$ : Measurement value

$T_L$ : Lower limit of tolerance interval

$T_U$ : Upper limit of tolerance interval

$U$ : Expanded uncertainty

## 9. Sample Set

### Data Set 1: 55°C, 1500mA

Part Number:	TX-5060RGBW
Number of Units:	11
Actual Case Temperature( $T_S$ ):	$T_S > 53^\circ\text{C}$
Actual Ambient Temperature( $T_A$ ):	$T_A > 50^\circ\text{C}$
Life Test Drive Current:	$I_F = 1500\text{mA}$
Measurement Current:	$I_F = 1500\text{mA}$

### Data Set 2: 85°C, 1500mA

Part Number:	TX-5060RGBW
Number of Units:	11
Actual Case Temperature( $T_S$ ):	$T_S > 83^\circ\text{C}$
Actual Ambient Temperature( $T_A$ ):	$T_A > 80^\circ\text{C}$
Life Test Drive Current:	$I_F = 1500\text{mA}$
Measurement Current:	$I_F = 1500\text{mA}$

### Data Set 3: 105°C, 1500mA

Part Number:	TX-5060RGBW
Number of Units:	11
Actual Case Temperature( $T_S$ ):	$T_S > 103^\circ\text{C}$
Actual Ambient Temperature( $T_A$ ):	$T_A > 100^\circ\text{C}$
Life Test Drive Current:	$I_F = 1500\text{mA}$
Measurement Current:	$I_F = 1500\text{mA}$

**10. Summary of Test Result**

Data Set	Sample Size	Failures Observed	Test Interval	Test Duration	TM-21 Lifetime	
					L <sub>70</sub>	L <sub>90</sub>
1	25	0	1000h	10000h	2.8289E-06	



**Appendix: Data sheet**

Data Set 1, 55°C, 1500mA (Lumen Maintenance)										
S/N	TLF(lm)	Lumen Maintenance (%)								
		Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h

**Data Set 1, 55°C, 1500mA (Forward Voltage)**

S/N	VF(V)										
	Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
A01	18.09	18.10	18.12	18.11	18.09	18.08	18.05	18.04	18.02	18.01	17.99
A02	18.41	18.42	18.44	18.42	18.40	18.39	18.37	18.36	18.34	18.32	18.31
A03	18.21	18.23	18.25	18.24	18.22	18.19	18.17	18.15	18.13	18.12	18.11
A04	18.43	18.44	18.45	18.43	18.42	18.41	18.38	18.36	18.34	18.32	18.30
A05	18.35	18.38	18.39	18.38	18.36	18.33	18.30	18.29	18.28	18.27	18.26
A06	18.07	18.08	18.10	18.08	18.06	18.05	18.02	18.01	18.00	17.99	17.97
A07	18.10	18.12	18.14	18.12	18.10	18.08	18.06	18.05	18.03	18.02	18.00
A08	18.13	18.14	18.16	18.14	18.11	18.10	18.08	18.05	18.02	18.01	17.99
A09	18.25	18.28	18.29	18.27	18.26	18.25	18.23	18.22	18.20	18.18	18.17
A10	18.35	18.37	18.38	18.37	18.35	18.33	18.31	18.30	18.29	18.28	18.26
A11	18.10	18.12	18.13	18.11	18.08	18.07	18.05	18.03	18.02	18.01	18.00
<b>Ave.</b>	<b>18.23</b>	<b>18.24</b>	<b>18.26</b>	<b>18.24</b>	<b>18.22</b>	<b>18.21</b>	<b>18.18</b>	<b>18.17</b>	<b>18.15</b>	<b>18.14</b>	<b>18.12</b>
Max	18.43	18.44	18.45	18.43	18.42	18.41	18.38	18.36	18.34	18.32	18.31
Min	18.07	18.08	18.10	18.08	18.06	18.05	18.02	18.01	18.00	17.99	17.97
Med	18.21	18.23	18.25	18.24	18.22	18.19	18.17	18.15	18.13	18.12	18.11
Std.dev	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

**Data Set 2, 85°C, 1500mA (Lumen Maintenance)**

S/N	TLF(lm)	Lumen Maintenance (%)									
		Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h
B01	708.42	100.09	100.26	99.93	99.30	98.93	98.43	98.22	97.98	97.75	97.62
B02	685.66	100.01	100.06	99.65	98.83	98.32	97.85	97.56	97.30	96.92	96.80
B03	721.49	100.45	100.78	100.55	99.92	99.48	98.99	98.50	98.22	97.87	97.54
B04	693.87	100.14	100.29	99.71	99.09	98.67	98.44	98.08	97.53	97.18	96.96
B05	703.64	100.14	100.25	99.67	98.87	98.44	98.08	97.62	97.17	96.98	96.88
B06	678.32	100.27	100.55	100.13	99.36	98.84	98.45	98.09	97.88	97.71	97.44
B07	676.07	100.48	100.65	100.27	99.62	99.40	98.99	98.56	98.28	97.97	97.74
B08	693.55	100.52	100.79	100.49	99.71	99.17	98.63	98.27	97.85	97.56	97.41
B09	685.77	100.30	100.45	99.95	99.35	98.91	98.58	98.06	97.71	97.52	97.32
B10	695.64	100.57	100.84	100.43	99.77	99.40	99.23	98.92	98.49	98.34	98.11
B11	720.57	100.25	100.60	100.10	99.40	99.05	98.76	98.32	98.01	97.76	97.52
<b>Ave.</b>	<b>696.64</b>	<b>100.29</b>	<b>100.50</b>	<b>100.08</b>	<b>99.38</b>	<b>98.96</b>	<b>98.58</b>	<b>98.20</b>	<b>97.86</b>	<b>97.60</b>	<b>97.39</b>
Max	721.49	100.57	100.84	100.55	99.92	99.48	99.23	98.92	98.49	98.34	98.11
Min	676.07	100.01	100.06	99.65	98.83	98.32	97.85	97.56	97.17	96.92	96.80
Med	693.87	100.27	100.55	100.10	99.36	98.93	98.58	98.22	97.88	97.71	97.44
Std.dev	14.75	0.18	0.25	0.31	0.34	0.37	0.39	0.38	0.39	0.41	0.37

<b>Data Set 1, 85°C, 1500mA (Chromaticity Shift_ u'v')</b>												
S/N	Initial(0hr)		1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
	CIE u'	CIE v'										
B01	0.2005	0.3672	0.0011	0.0013	0.0015	0.0019	0.0023	0.0029	0.0032	0.0035	0.0037	0.0039
B02	0.2002	0.3661	0.0009	0.0011	0.0014	0.0018	0.0022	0.0025	0.0028	0.0032	0.0034	0.0035
B03	0.2003	0.3664	0.0010	0.0012	0.0014	0.0018	0.0022	0.0027	0.0031	0.0036	0.0039	0.0039
B04	0.2031	0.3678	0.0012	0.0015	0.0018	0.0022	0.0027	0.0032	0.0035	0.0038	0.0041	0.0041
B05	0.2030	0.3683	0.0011	0.0013	0.0017	0.0022	0.0027	0.0033	0.0039	0.0043	0.0046	0.0047
B06	0.2001	0.3662	0.0006	0.0009	0.0014	0.0018	0.0022	0.0028	0.0031	0.0033	0.0035	0.0038
B07	0.2033	0.3683	0.0011	0.0014	0.0016	0.0020	0.0023	0.0026	0.0031	0.0035	0.0037	0.0041
B08	0.2005	0.3675	0.0009	0.0010	0.0015	0.0019	0.0023	0.0027	0.0032	0.0035	0.0038	0.0041
B09	0.2000	0.3662	0.0009	0.0011	0.0014	0.0019	0.0024	0.0028	0.0033	0.0035	0.0036	0.0036
B10	0.2032	0.3680	0.0006	0.0008	0.0012	0.0017	0.0023	0.0028	0.0031	0.0035	0.0037	0.0040
B11	0.2002	0.3663	0.0007	0.0008	0.0011	0.0015	0.0018	0.0023	0.0027	0.0032	0.0035	0.0038
<b>Ave.</b>	<b>0.2013</b>	<b>0.3671</b>	<b>0.0009</b>	<b>0.0011</b>	<b>0.0015</b>	<b>0.0019</b>	<b>0.0023</b>	<b>0.0028</b>	<b>0.0032</b>	<b>0.0035</b>	<b>0.0038</b>	<b>0.0040</b>
Max	0.2033	0.3683	0.0012	0.0015	0.0018	0.0022	0.0027	0.0033	0.0039	0.0043	0.0046	0.0047
Min	0.2000	0.3661	0.0006	0.0008	0.0011	0.0015	0.0018	0.0023	0.0027	0.0032	0.0034	0.0035
Med	0.2005	0.3672	0.0009	0.0011	0.0014	0.0019	0.0023	0.0028	0.0031	0.0035	0.0037	0.0039
Std.dev	0.0014	0.0009	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0003	0.0003	0.0003

<b>Data Set 1, 85°C, 1500mA (Forward Voltage)</b>											
S/N	VF(V)										
	Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
B01	18.16	18.17	18.18	18.15	18.12	18.09	18.06	18.04	18.02	17.99	17.98
B02	18.12	18.13	18.14	18.11	18.08	18.06	18.03	18.02	18.01	17.99	17.98

B03 18 Tf 8.04 0 0 8.04 95.28]TJ 0 Tc 0 Tw 2.761 0 /P <</MCID 258 >>B 352.08 0.481 15.6 re0.68 3678 367.68 38.16 0(18.)-10(06 )]TJ 0

<b>Data Set 1, 105°C, 1500mA (Lumen Maintenance)</b>											
S/N	TLF(lm)	Lumen Maintenance (%)									
		Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h
C01	686.98	100.21	99.82	99.45	98.66	98.11	97.78	97.31	97.02	96.81	96.67
C02	695.36	100.16	100.03	99.32	98.45	97.91	97.28	96.63	96.32	95.83	95.63
C03	710.30	100.00	99.87	99.35	98.50	97.65	96.98	96.44	95.88	95.55	95.23
C04	692.87	100.14	99.69	99.28	98.75	98.13	97.76	97.20	96.93	96.55	96.11
C05	715.63	100.23	100.04	99.39	98.76	98.26	97.66	97.24	96.66	96.29	96.05
C06	686.58	100.18	100.08	99.49	98.70	97.95	97.19	96.70	96.35	95.85	95.68
C07	679.42	99.74	99.39	98.70	97.95	97.09	96.58	96.03	95.61	95.24	95.02
C08	704.69	100.08	99.69	99.01	98.40	97.80	97.35	97.01	96.48	96.03	95.70
C09	682.57	100.21	99.77	99.38	98.57	98.09	97.61	97.27	96.88	96.37	95.98
C10	686.69	99.95	99.64	99.23	98.65	97.95	97.45	97.17	96.93	96.58	96.26
C11	687.35	100.03	99.74	99.13	98.56	98.00	97.50	96.88	96.32	95.84	95.49
<b>Ave.</b>	<b>693.49</b>	<b>100.08</b>	<b>99.80</b>	<b>99.25</b>	<b>98.54</b>	<b>97.90</b>	<b>97.38</b>	<b>96.90</b>	<b>96.49</b>	<b>96.09</b>	<b>95.80</b>
Max	715.63	100.23	100.08	99.49	98.76	98.26	97.78	97.31	97.02	96.81	96.67
Min	679.42	99.74	99.39	98.70	97.95	97.09	96.58	96.03	95.61	95.24	95.02
Med	687.35	100.14	99.77	99.32	98.57	97.95	97.45	97.01	96.48	96.03	95.70
Std.dev	11.25	0.14	0.19	0.22	0.22	0.30	0.34	0.39	0.43	0.46	0.45

<b>Data Set 1, 105°C, 1500mA (Chromaticity Shift_ u'v')</b>												
S/N	Initial(0hr)		1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
	CIE u'	CIE v'										
C01	0.2035	0.3680	0.0009	0.0011	0.0016	0.0021	0.0026	0.0030	0.0036	0.0040	0.0044	0.0046
C02	0.2003	0.3664	0.0008	0.0012	0.0017	0.0021	0.0026	0.0030	0.0034	0.0038	0.0041	0.0045
C03	0.2002	0.3662	0.0007	0.0011	0.0016	0.0020	0.0025	0.0032	0.0038	0.0040	0.0044	0.0047
C04	0.2004	0.3670	0.0013	0.0016	0.0021	0.0024	0.0029	0.0036	0.0042	0.0045	0.0047	0.0048
C05	0.2033	0.3681	0.0011	0.0014	0.0016	0.0019	0.0024	0.0029	0.0034	0.0037	0.0040	0.0043
C06	0.2003	0.3670	0.0012	0.0016	0.0020	0.0024	0.0029	0.0035	0.0040	0.0044	0.0048	0.0049
C07	0.2001	0.3663	0.0012	0.0014	0.0019	0.0023	0.0029	0.0034	0.0039	0.0044	0.0047	0.0050
C08	0.2032	0.3679	0.0012	0.0016	0.0019	0.0024	0.0029	0.0034	0.0039	0.0042	0.0045	0.0049
C09	0.2001	0.3662	0.0008	0.0012	0.0015	0.0019	0.0025	0.0030	0.0034	0.0039	0.0041	0.0044
C10	0.2003	0.3671	0.0008	0.0011	0.0014	0.0017	0.0024	0.0030	0.0033	0.0037	0.0040	0.0043
C11	0.2005	0.3660	0.0012	0.0015	0.0019	0.0023	0.0028	0.0035	0.0040	0.0042	0.0046	0.0047
<b>Ave.</b>	<b>0.2011</b>	<b>0.3669</b>	<b>0.0010</b>	<b>0.0013</b>	<b>0.0017</b>	<b>0.0021</b>	<b>0.0027</b>	<b>0.0032</b>	<b>0.0037</b>	<b>0.0041</b>	<b>0.0044</b>	<b>0.0046</b>
Max	0.2035	0.3681	0.0013	0.0016	0.0021	0.0024	0.0029	0.0036	0.0042	0.0045	0.0048	0.0050
Min	0.2001	0.3660	0.0007	0.0011	0.0014	0.0017	0.0024	0.0029	0.0033	0.0037	0.0040	0.0043
Med	0.2003	0.3670	0.0011	0.0014	0.0017	0.0021	0.0026	0.0032	0.0038	0.0040	0.0044	0.0047
Std.dev	0.0014	0.0007	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	

<b>Data Set 1, 105°C, 1500mA (Forward Voltage)</b>											
S/N	VF(V)										
	Initial(0hr)	1000h	2000h	3000h	4000h	5000h	6000h	7000h	8000h	9000h	10000h
C01	18.30	18.29	18.26	18.22	18.17	18.13	18.10	18.07	18.05	18.02	18.00
C02	18.42	18.42	18.41	18.37	18.34	18.31	18.28	18.26	18.23	18.21	18.19
C03	18.12	18.13	18.10	18.06	18.04	17.99	17.94	17.92	17.90	17.87	17.86
C04	18.33	18.33	18.32	18.28	18.26	18.21	18.16	18.13	18.10	18.08	18.07
C05	18.34	18.33	18.31	18.29	18.27	18.23	18.19	18.15	18.12	18.11	18.09
C06	18.13	18.14	18.13	18.09	18.05	18.02	17.99	17.97	17.93	17.91	17.90
C07	18.22	18.22	18.20	18.17	18.13	18.08	18.06	18.03	17.99	17.97	17.96
C08	18.28	18.27	18.26	18.23	18.18	18.13	18.09	18.07	18.05	18.04	18.03
C09	18.11	18.10	18.07	18.04	18.00	17.98	17.93	17.88	17.85	17.82	17.80
C10	18.40	18.41	18.40	18.38	18.33	18.30	18.25	18.21	18.19	18.18	18.16
C11	18.30	18.31	18.28	18.26	18.23	18.21	18.19	18.14	18.12	18.10	18.08
Ave.	<b>18.27</b>	<b>18.27</b>	<b>18.25</b>	<b>18.22</b>	<b>18.18</b>	<b>18.14</b>	<b>18.11</b>	<b>18.08</b>	<b>18.05</b>	<b>18.03</b>	<b>18.01</b>

**Attachment 1: Equipment List**

Equipment	Model/Type	Cal. Due. Date
DC power supply	EVERFINE WY305-V1	2023-01-11
Digital Power Meter	EVERFINE PF2010A-V1	2023-01-11
High accuracy array spectroradio meter	EVERFINE HAAS-2000	2023-01-11
Integrating Sphere	EVERFINE R98&R80&0.3m	2023-01-11
Standard light source	EVERFINE D204	2023-01-11
Standard light source	EVERFINE D062	2023-01-11
Temperature & Humidity Datalogger	Testo 608-H1	2023-01-11
AC power supply	EVERFINE DPS 1060	2023-01-11
DC power supply	EVERFINE WY12010	2023-01-11
Digital Power Meter	EVERFINE PF2010A-V1-CAN	2023-01-11
Digital power meter	YOKOGAWA WT310E	2023-01-11
LED accelerated aging and longevity test system	EVERFINE LT-200A	2023-01-11
Walk-in Environmental Test Lab	Dongzhixu BUL-50-26	2023-01-11
Environmental Chamber	KSON THS-D4C-100	2023-01-11
Multimeter	FLUKE 15B	2023-01-11
Temperature Recorder	YOKOGAWA DR231-00-33-1R	2023-01-11

**Attachment 2: Photo document**



Photo 1

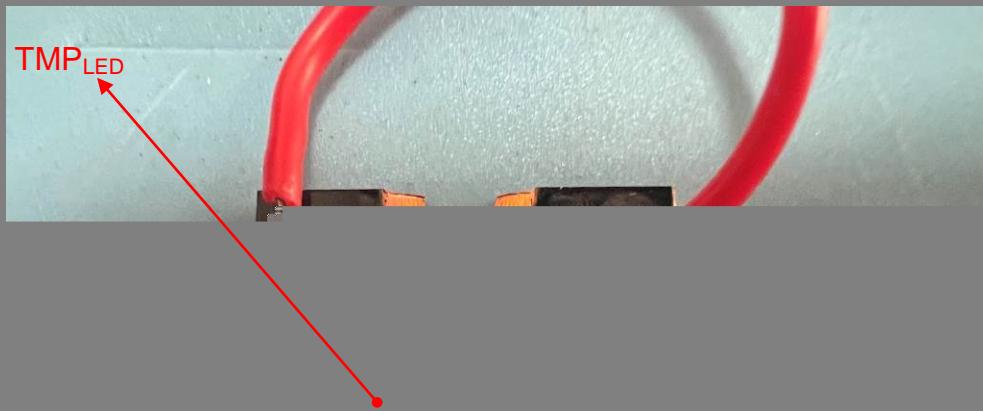


Photo 2

===== End of Report =====