



TEST REPORT

According to ANSI/IES LM-80-15
For

Hongli Zhihui Group Co.,Ltd. Guangzhou Branch

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

Model: HL-AF-5060H343W-3-S1-THL-HR3

| | | | |
|--|---|-------------------------------------|--------------------|
| Report Type: 10000 Hours Test Report | | Product Type: LED Package | |
| Reviewed By: | Pote Wang | | |
| Report Number: | SZ2220402-12242E-10-10000 | | |
| Test Date: | 2022-04-09 to 2023-07-03 | | |
| Report Date: | 2023-07-12 | | |
| Approved by: | Blake Zhang / EE Engineer | | <i>Blake Zhang</i> |
| Prepared By: | Bay Area Compliance Laboratories Corp. (Shenzhen) 5/F(B-West) -7/F, the 3rd Phase of Wan Li Industrial Building D, Shihua Road, Futian Free Trade Zone Shenzhen, Guangdong, China. Tel: +86-755-33320018 Fax: +86-755-33320008 | | |
| Test Facility: | Test facility was located at No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China. | | |

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.(Shenzhen). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.



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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 2022-04-02. The samples were numbered from 1 to 25 and 26 to 50.

| | |
|--------------------------------------|---|
| Manufacturer: | Hongli Zhihui Group Co.,Ltd. Guangzhou Branch |
| Part Number: | HL-AF-5060H343W-3-S1-THL-HR3 |
| Part Type: | LED Package |
| Drive Level: | DC 60mA |
| Nominal CCT: | 2700K |
| Power: | 0.192W |
| Average Current Density per LED die: | 229.630mA/mm ² |
| Average Power Density per LED die: | 0.689W/mm ² |
| CRI: | 80 |
| Die Spacing: | 0.728mm |

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.

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 type | Model name | CRI (typ.) | CCT (typ.) | Series | Parallel | Power density W/mm ² | Current density per LED die mA/mm ² | Current per die (mA) | Distance between of dies (mm) | Current (mA) |
|-----------------|----------------------------------|------------|-------------|--------|----------|---------------------------------|--|----------------------|-------------------------------|--------------|
| Test model | HL-AF-5060H343W-3-S1-THL-HR3 | 80 | 2700K | 1 | 3 | 0.00711 | 229.630 | 20 | 0.728 | 60 |
| Multiple models | HL-AF-5060H***W-3-S1-T**-HR*-*** | 70-80 | 2700K-6500K | 1 | 3 | | | | | |

| Model type | Model name | CRI (typ.) | CCT (typ.) | Series | Parallel | Power density W/mm ² | Current density per LED die mA/mm ² | Current per die (mA) | Distance between of dies (mm) | Current (mA) |
|-----------------|--------------------------------------|------------|-------------|--------|----------|---------------------------------|--|----------------------|-------------------------------|--------------|
| Multiple models | HL-AF-5060H***W-2-S1-T**-HR*(R9)-*** | 70-80 | 2700K-6500K | 1 | 2 | 0.00474 | 229.630 | 20 | 0.728 | 40 |
| Multiple models | HL-AF-5060H***W-2-S1-P**-HR*(R9)-*** | 70-80 | 2700K-6500K | 1 | 2 | 0.00474 | 229.630 | 20 | 0.728 | 40 |
| Multiple models | HL-AF-5060H***W-1-S1-T**-HR*-*** | 70-80 | 2700K-6500K | 1 | 1 | 0.00237 | 229.630 | 20 | / | 20 |
| Multiple models | HL-AF-5060H***W-1-S1-P**-HR*-*** | 70-80 | 2700K-6500K | 1 | 1 | 0.00237 | 229.630 | 20 | / | 20 |
| Multiple models | HL-AF-5060H***W-1-S1-T**-HR*(R9)-*** | 70-80 | 2700K-6500K | 1 | 1 | 0.00237 | 229.630 | 20 | / | 20 |
| Multiple models | HL-AF-5060H***W-1-S1-P**-HR*(R9)-*** | 70-80 | 2700K-6500K | 1 | 1 | 0.00237 | 229.630 | 20 | / | 20 |

Note

The model name begins with "HL", such as "HL-AF-5060H***W-3-S1-T**-HR*-***", "*" is described in detail as follows :

- 1.
2. s the letter HL or the number 1 which stands for the bonding wire style.
3. The
- 4.

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 (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 Testing Equipment

| Device | Manufacture | Model No | Serial No | Calibration date | Calibration due date |
|---------------------------------------|-------------|-----------|------------------|------------------|----------------------|
| High Accuracy Array Spectroradiometer | EVERFINE | HAAS 2000 | P600674CM5391140 | 2022-11-18 | 2023-11-17 |
| 0.5M Integrating Sphere | EVERFINE | 0.5m | NA | 2022-11-18 | 2023-11-17 |
| LED Test Source | EVERFINE | LTS-300 | P185616CJ1391143 | 2022-11-18 | 2023-11-17 |
| Standard Light Source | EVERFINE | D062 | 1011093 | 2021-09-15 | 2023-09-14 |
| Multilayer aging machine | BACL | B2-270 | 20015 | 2022-10-19 | 2023-10-18 |
| Digital CC&CV DC Power Supply | EVERFINE | WY5015 | 11090007 | 2022-10-20 | 2023-10-19 |

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 _{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

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



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2 - Summary of Test Result

| Data Set: | Sample Size | Failures Observed: | Test Interval | Test Duration | | Reported TM-21 L ₇₀ |
|-----------|-------------|--------------------|---------------|---------------|--|--------------------------------|
|-----------|-------------|--------------------|---------------|---------------|--|--------------------------------|

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3.2 Data Set 1, 55°C, 60mA (Forward Voltage)

| No. | Forward Voltage (V) | | | | | | | | | | |
|-----|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | 0hr(Initial) | 1000hrs | 2000hrs | 3000hrs | 4000hrs | 5000hrs | 6000hrs | 7000hrs | 8000hrs | 9000hrs | 10000hrs |
| 1 | 2.908 | 2.816 | 2.857 | 2.877 | 2.832 | 2.870 | 2.812 | 2.811 | 2.816 | 2.820 | 2.810 |
| 2 | 2.838 | 2.811 | 2.850 | 2.837 | | | | | | | |



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3.3 Data Set 1, 55°C, 60mA (Chromaticity Shift)

| No. | | | CCT(K) | | | | | | | | | | |
|--------|--------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | Ohr(Initial) | | | 1000hrs | 2000hrs | 3000hrs | 4000hrs | 5000hrs | 6000hrs | 7000hrs | 8000hrs | 9000hrs | 10000hrs |
| 1 | 0.2585 | 0.5271 | 2787 | 0.0002 | 0.0004 | 0.0004 | 0.0005 | 0.0008 | 0.0011 | 0.0012 | 0.0014 | 0.0016 | 0.0017 |
| 2 | 0.2602 | 0.5272 | 2750 | 0.0002 | 0.0005 | 0.0006 | 0.0006 | 0.0010 | 0.0013 | 0.0014 | 0.0016 | 0.0016 | 0.0018 |
| 3 | 0.2599 | 0.5259 | 2762 | 0.0002 | 0.0004 | 0.0006 | 0.0008 | 0.0011 | 0.0013 | 0.0016 | 0.0017 | 0.0020 | 0.0021 |
| 4 | 0.2588 | 0.5254 | 2787 | 0.0001 | 0.0002 | 0.0005 | 0.0006 | 0.0011 | 0.0013 | 0.0016 | 0.0016 | 0.0018 | 0.0019 |
| 5 | 0.2594 | 0.5261 | 2772 | 0.0002 | 0.0003 | 0.0004 | 0.0008 | 0.0008 | 0.0009 | 0.0010 | 0.0013 | 0.0016 | 0.0018 |
| 6 | 0.2572 | 0.5270 | 2814 | 0.0002 | 0.0001 | 0.0002 | 0.0005 | 0.0006 | 0.0008 | 0.0008 | 0.0010 | 0.0016 | 0.0018 |
| 7 | 0.2563 | 0.5274 | 2833 | 0.0002 | 0.0001 | 0.0003 | 0.0005 | 0.0006 | 0.0009 | 0.0009 | 0.0011 | 0.0013 | 0.0017 |
| 8 | 0.2577 | 0.5249 | 2813 | 0.0002 | 0.0001 | 0.0003 | 0.0006 | 0.0009 | 0.0011 | 0.0014 | 0.0016 | 0.0018 | 0.0021 |
| 9 | 0.2581 | 0.5274 | 2793 | 0.0001 | 0.0001 | 0.0004 | 0.0005 | 0.0006 | 0.0009 | 0.0011 | 0.0015 | 0.0016 | 0.0020 |
| 10 | 0.2622 | 0.5265 | 2709 | 0.0001 | 0.0002 | 0.0005 | 0.0008 | 0.0011 | 0.0011 | 0.0012 | 0.0013 | 0.0018 | 0.0019 |
| 11 | 0.2624 | 0.5289 | 2696 | 0.0002 | 0.0003 | 0.0005 | 0.0007 | 0.0008 | 0.0012 | 0.0012 | 0.0014 | 0.0017 | 0.0018 |
| 12 | 0.2598 | 0.5277 | 2755 | 0.0001 | 0.0001 | 0.0004 | 0.0006 | 0.0006 | 0.0008 | 0.0011 | 0.0013 | 0.0016 | 0.0016 |
| 13 | 0.2599 | 0.5272 | 2754 | 0.0001 | 0.0003 | 0.0002 | 0.0006 | 0.0007 | 0.0009 | 0.0011 | 0.0014 | 0.0016 | 0.0016 |
| 14 | 0.2576 | 0.5267 | 2807 | 0.0001 | 0.0003 | 0.0004 | 0.0006 | 0.0007 | 0.0009 | 0.0011 | 0.0015 | 0.0016 | 0.0018 |
| 15 | 0.2592 | 0.5267 | 2773 | 0.0001 | 0.0001 | 0.0003 | 0.0007 | 0.0010 | 0.0011 | 0.0011 | 0.0014 | 0.0017 | 0.0019 |
| 16 | 0.2585 | 0.5271 | 2785 | 0.0001 | 0.0004 | 0.0003 | 0.0003 | 0.0007 | 0.0009 | 0.0010 | 0.0013 | 0.0013 | 0.0016 |
| 17 | 0.2581 | 0.5247 | 2806 | 0.0002 | 0.0004 | 0.0003 | 0.0005 | 0.0007 | 0.0009 | 0.0010 | 0.0013 | 0.0014 | 0.0017 |
| 18 | 0.2573 | 0.5255 | 2820 | 0.0002 | 0.0003 | 0.0004 | 0.0008 | 0.0011 | 0.0012 | 0.0014 | 0.0017 | 0.0019 | 0.0021 |
| 19 | 0.2604 | 0.5261 | 2750 | 0.0001 | 0.0003 | 0.0004 | 0.0004 | 0.0007 | 0.0009 | 0.0013 | 0.0015 | 0.0014 | 0.0017 |
| 20 | 0.2587 | 0.5249 | 2791 | 0.0002 | 0.0002 | 0.0006 | 0.0006 | 0.0007 | 0.0009 | 0.0014 | 0.0014 | 0.0015 | 0.0018 |
| 21 | 0.2590 | 0.5264 | 2778 | 0.0001 | 0.0005 | 0.0005 | 0.0008 | 0.0009 | 0.0010 | 0.0012 | 0.0013 | 0.0016 | 0.0017 |
| 22 | 0.2605 | 0.5257 | 2748 | 0.0001 | 0.0003 | 0.0006 | 0.0009 | 0.0010 | 0.0012 | 0.0015 | 0.0016 | 0.0018 | 0.0021 |
| 23 | 0.2589 | 0.5269 | 2777 | 0.0001 | 0.0003 | 0.0007 | 0.0011 | 0.0012 | 0.0015 | 0.0016 | 0.0018 | 0.0019 | 0.0023 |
| 24 | 0.2583 | 0.5270 | 2791 | 0.0001 | 0.0001 | 0.0007 | 0.0009 | 0.0013 | 0.0016 | 0.0018 | 0.0021 | 0.0022 | 0.0025 |
| 25 | 0.2594 | 0.5261 | 2770 | 0.0002 | 0.0002 | 0.0009 | 0.0012 | 0.0013 | 0.0015 | 0.0018 | 0.0021 | 0.0023 | 0.0025 |
| Avg. | 0.2591 | 0.5265 | 2777 | 0.0002 | 0.0003 | 0.0005 | 0.0007 | 0.0009 | 0.0011 | 0.0013 | 0.0015 | 0.0017 | 0.0019 |
| Med. | 0.2589 | 0.5267 | 2778 | 0.0001 | 0.0003 | 0.0004 | 0.0006 | 0.0008 | 0.0011 | 0.0012 | 0.0014 | 0.0016 | 0.0018 |
| st dev | 0.0014 | 0.0010 | 32 | 0.0000 | 0.0001 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0003 | 0.0003 | 0.0002 | 0.0003 |
| Min. | 0.2563 | 0.5247 | 2696 | 0.0001 | 0.0001 | 0.0002 | 0.0003 | 0.0006 | 0.0008 | 0.0008 | 0.0010 | 0.0013 | 0.0016 |
| Max. | 0.2624 | 0.5289 | 2833 | 0.0002 | 0.0005 | 0.0009 | 0.0012 | 0.0013 | 0.0016 | 0.0018 | 0.0021 | 0.0023 | 0.0025 |



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3.4 Data Set 2, 85°C, 60mA (Lumen Maintenance)

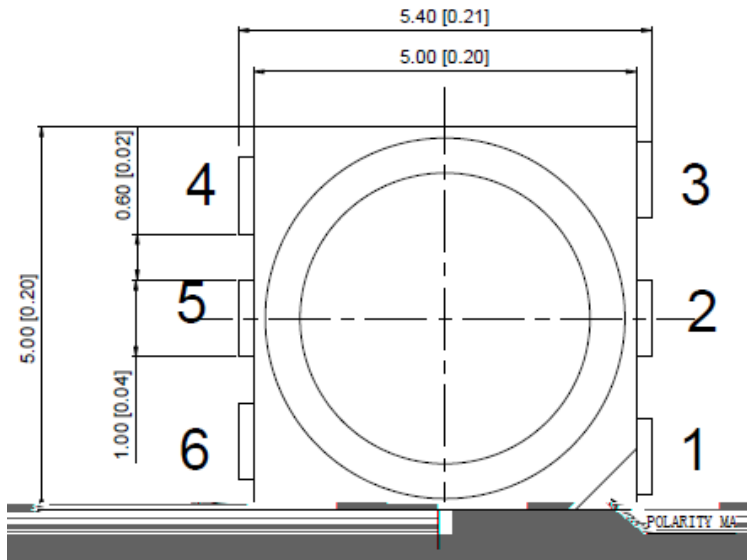
| No. | Lumen Maintenance (%) | | | | | | | | | | |
|--------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| | Ohr(Initial) | 1000hrs | 2000hrs | 3000hrs | 4000hrs | 5000hrs | 6000hrs | 7000hrs | 8000hrs | 9000hrs | 10000hrs |
| 26 | 24.23 | 100.25 | 100.08 | 99.75 | 99.38 | 99.17 | 98.97 | 98.76 | 98.56 | 98.18 | 98.02 |
| 27 | 24.39 | 100.08 | 99.75 | 99.59 | 99.34 | 99.22 | 98.93 | 98.73 | 98.36 | 98.15 | 97.87 |
| 28 | 24.36 | 100.16 | 99.84 | 99.63 | 99.47 | 99.26 | 99.06 | 98.85 | 98.60 | 98.40 | 98.19 |
| 29 | 23.90 | 100.21 | 99.87 | 99.71 | 99.50 | 99.16 | 98.95 | 98.66 | 98.54 | 98.37 | 98.16 |
| 30 | 24.12 | 99.92 | 99.75 | 99.46 | 99.13 | 98.92 | 98.80 | 98.47 | 98.18 | 97.89 | 97.55 |
| 31 | 23.15 | 99.87 | 99.70 | 99.44 | 99.18 | 99.05 | 98.70 | 98.49 | 98.14 | 97.84 | 97.58 |
| 32 | 23.82 | 100.21 | 99.87 | 99.58 | 99.24 | 98.99 | 98.70 | 98.32 | 98.07 | 97.77 | 97.57 |
| 33 | 24.21 | 100.12 | 99.75 | 99.67 | 99.38 | 99.09 | 98.80 | 98.55 | 98.31 | 97.98 | 97.56 |
| 34 | 23.58 | 100.25 | 100.04 | 99.79 | 99.62 | 99.49 | 99.32 | 99.15 | 98.90 | 98.60 | 98.30 |
| 35 | 23.80 | 100.04 | 99.96 | 99.79 | 99.54 | 99.37 | 99.12 | 98.91 | 98.74 | 98.49 | 98.15 |
| 36 | 24.57 | 100.08 | 99.84 | 99.59 | 99.31 | 99.02 | 98.78 | 98.53 | 98.21 | 98.09 | 97.84 |
| 37 | 24.26 | 100.08 | 99.84 | 99.55 | 99.22 | 98.97 | 98.80 | 98.52 | 98.19 | 97.94 | 97.61 |
| 38 | 24.16 | 100.04 | 99.79 | 99.46 | 99.13 | 98.72 | 98.51 | 98.30 | 98.05 | 97.76 | 97.43 |
| 39 | 23.08 | 100.26 | 99.91 | 99.74 | 99.44 | 99.13 | 98.96 | 98.70 | 98.53 | 98.14 | 97.88 |
| 40 | 24.54 | 99.96 | 99.80 | 99.63 | 99.55 | 99.23 | 98.90 | 98.70 | 98.53 | 98.25 | 98.04 |
| 41 | 24.32 | 100.16 | 99.96 | 99.75 | 99.59 | 99.30 | 99.05 | 98.85 | 98.60 | 98.44 | 98.23 |
| 42 | 23.30 | 99.91 | 99.70 | 99.48 | 99.27 | 99.01 | 98.80 | 98.58 | 98.28 | 97.94 | 97.73 |
| 43 | 24.37 | 100.25 | 99.96 | 99.75 | 99.51 | 99.30 | 99.06 | 98.77 | 98.44 | 98.19 | 97.91 |
| 44 | 24.17 | 100.21 | 99.88 | 99.54 | 99.30 | 99.13 | 98.84 | 98.63 | 98.47 | 98.22 | 98.06 |
| 45 | 22.64 | 100.13 | 99.91 | 99.78 | 99.56 | 99.38 | 99.07 | 98.81 | 98.63 | 98.32 | 98.06 |
| 46 | 23.77 | 100.17 | 99.96 | 99.66 | 99.45 | 99.24 | 98.95 | 98.57 | 98.40 | 98.11 | 97.98 |
| 47 | 24.54 | 100.12 | 99.88 | 99.47 | 99.27 | 98.98 | 98.74 | 98.49 | 98.29 | 98.00 | 97.88 |
| 48 | 24.06 | 100.25 | 99.96 | 99.54 | 99.42 | 99.13 | 98.75 | 98.50 | 98.09 | 97.92 | 97.71 |
| 49 | 23.90 | 100.17 | 99.87 | 99.46 | 99.08 | 98.79 | 98.49 | 98.24 | 97.99 | 97.78 | 97.62 |
| 50 | 24.21 | 100.17 | 99.96 | 99.75 | 99.59 | 99.26 | 98.93 | 98.76 | 98.39 | 98.22 | 97.98 |
| Avg. | 23.98 | 100.12 | 99.87 | 99.62 | 99.38 | 99.13 | 98.88 | 98.63 | 98.38 | 98.12 | 97.88 |
| Med. | 24.16 | 100.16 | 99.87 | 99.63 | 99.38 | 99.13 | 98.90 | 98.63 | 98.39 | 98.14 | 97.88 |
| st dev | 0.50 | 0.1135 | 0.10 | 0.12 | 0.16 | 0.18 | 0.19 | 0.21 | 0.23 | 0.24 | 0.25 |
| Min. | 22.64 | 99.87 | 99.70 | 99.44 | 99.08 | 98.72 | 98.49 | 98.24 | 97.99 | 97.76 | 97.43 |
| Max. | 24.57 | 100.26 | 100.08 | 99.79 | 99.62 | 99.49 | 99.32 | 99.15 | 98.90 | 98.60 | 98.30 |

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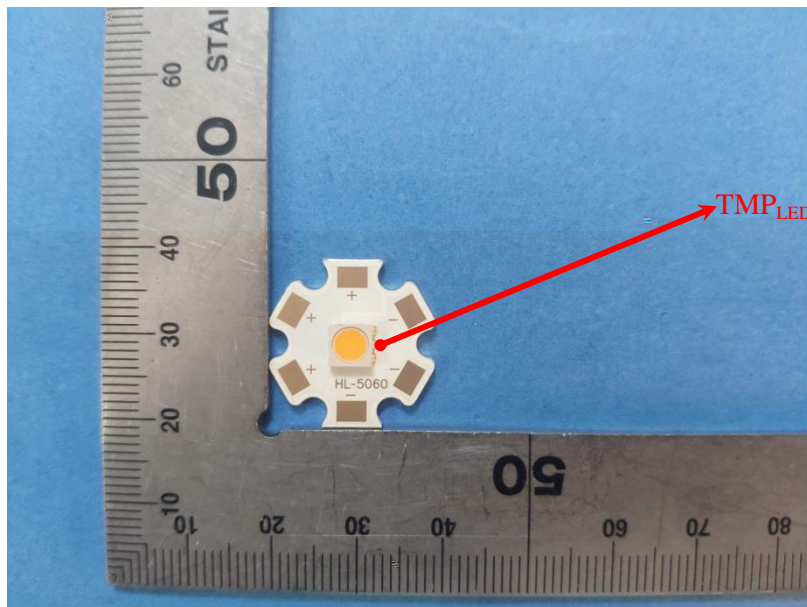
4 - DUT Photo

4.1 Mechanical Dimensions



All dimensions are in millimeter

4.2 DUT Photo





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Directions
