

# TEST REPORT

LED Street Light

Test Model: AOK-110WiLH-NV-A5-00-4080-T2-A

Report Number : LCSB02256031S

Applicant : AOK Industrial Company Limited  
1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial

Address : Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA

Manufacturer : AOK Industrial Company Limited  
1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial

Address : Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA

Prepared by : Shenzhen Southern LCS Compliance Testing Co., Ltd.  
Address : 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

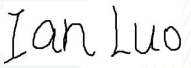
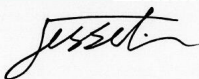
Date of receipt sample : January 22, 2026  
Date of test : January 23, 2026 to January 27, 2026  
Date of issue : March 11, 2026

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.



## TEST REPORT

|                                    |                                                                                                                                                                                 |                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Testing Laboratory.....:</b>    | Shenzhen Southern LCS Compliance Testing Co., Ltd.<br>101-201, Building 39, Xialang Industrial Zone, Heshuikou<br>Community, Matian Street, Guangming District, Shenzhen, China |                                                                                       |
| <b>Test Specification:</b>         |                                                                                                                                                                                 |                                                                                       |
| <b>Standard.....:</b>              | ANSI/IES LM-82-20: CHARACTERIZATION OF OPTICAL AND ELECTRICAL PROPERTIES OF SOLID-STATE LIGHTING PRODUCTS AS A FUNCTION OF TEMPERATURE                                          |                                                                                       |
| <b>Test item description.....:</b> | LED Street Light                                                                                                                                                                |                                                                                       |
| <b>Trademark.....:</b>             |                                                                                                |                                                                                       |
| <b>Test Model/Type.....:</b>       | AOK-110WiLH-NV-A5-00-4080-T2-A                                                                                                                                                  |                                                                                       |
| <b>Rating.....:</b>                | AC120-277V, 50/60Hz, 110W                                                                                                                                                       |                                                                                       |
| <b>Test Results .....</b>          | Please see the following test data                                                                                                                                              |                                                                                       |
| <b>Prepare by.....:</b>            | Seth Cai<br>(Project Engineer)                                                                                                                                                  |   |
| <b>Check by.....:</b>              | Ian Luo<br>(Director)                                                                                                                                                           |  |
| <b>Approved by .....</b>           | Jesse Liu<br>(Manager)                                                                                                                                                          |  |
| <b>Test Report Form No.....:</b>   | TRF-4-S-125 A/0                                                                                                                                                                 |                                                                                       |
| <b>TRF Originator.....:</b>        | Shenzhen Southern LCS Compliance Testing Co., Ltd.                                                                                                                              |                                                                                       |
| <b>Master TRF.....:</b>            | /                                                                                                                                                                               |                                                                                       |

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## 1. Test Method

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Condition.....                                        | 25.1°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of hours operated prior to Measurement .....           | (h): 0h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Stabilization time .....                                      | 32min/time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Orientation(burning position) of SSL product during test..... | Down                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Item.....                                                | Room Temperature Initial Measurement<br>Tb =Tb,0 (59.7°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Method .....                                             | The sample was tested according to the ANSI/IES LM-79-19.<br>Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25°C ±1°C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. 4π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.                                                             |
| Test Item.....                                                | Measurement at First Elevated Temperature<br>Tb,1 =85.5°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Method.....                                              | The sample was tested with a device that controls the temperature Tb of the UUT, so that Tb reaches no lower than Tb,1. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 50°C ± 1°C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. 4π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm. |



|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Item.....:   | Measurement at Second Elevated Temperature Tb,2 =71.6℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Method.....: | The sample was tested with a device that controls the temperature Tb of the UUT, so that Tb reaches no lower than Tb,0 = 59.7℃. Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 35℃ ± 1℃. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. 4π geometry was used during measurement. The sample was self-absorption correction used for integrating sphere, then operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm. |

|               |                                                                                                                                                                                                                                                                                                 |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks.....: | The general information of applicant and manufacturer (such as the name and address), product name, model/type reference, trademark and other similar information contained in this report are all provided by the applicant, the laboratory is not responsible for verifying its authenticity. |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REVISION HISTORY**

| Revision | Issue Date     | Revision Content | Revised by |
|----------|----------------|------------------|------------|
| 000      | March 11, 2026 | Initial Issue    | Seth Cai   |
|          |                |                  |            |
|          |                |                  |            |

Remark:

000) : “---”

Original Test Report “LCSB04285083S” dated January 28, 2026.

Modify item:

Applicant/Manufacturer: AOK Industrial Company Limited

Address: 1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George’ s Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xinqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA



Trademark:

Model: AOK-110WiLH-NV-A5-00-4080-T2-A

This co-license test report is based on the test raw-data of original test report, after construction/information review and verification, no additional tests were considered necessary.

## 2. Product Information

|                                   |                                |
|-----------------------------------|--------------------------------|
| Product description.....:         | LED Street Light               |
| Model Number.....:                | AOK-110WiLH-NV-A5-00-4080-T2-A |
| Rated Inputs.....:                | AC120-277V                     |
| Rated Power.....:                 | 110W                           |
| Declared CCT.....:                | 4000K                          |
| Date of Receipt Samples.....:     | January 22, 2026               |
| Quantity of Receipt Samples.....: | 1 unit                         |

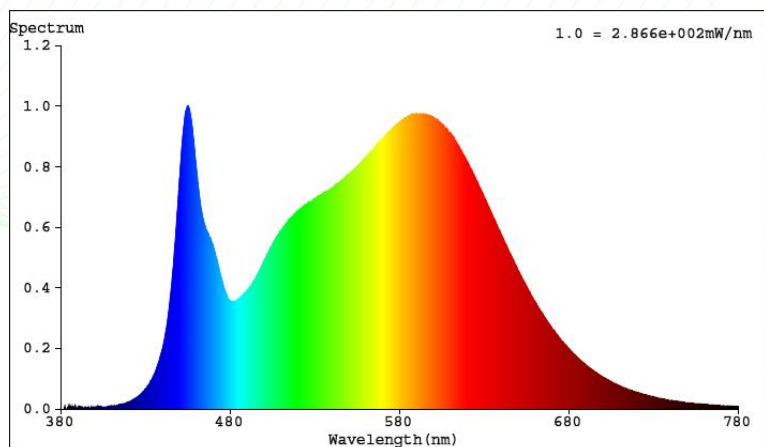
## 3. Test equipment list

| Manufacturer | Description                | Equipment ID | Model     | Calibration Date | Calibration Due Date |
|--------------|----------------------------|--------------|-----------|------------------|----------------------|
| EVERFINE     | 2 Meter Integrating Sphere | SLCS-S-312   | HAAS2000  | 2025/05/27       | 2026/05/26           |
| EVERFINE     | Digital Power Meter        | SLCS-S-309   | PF9810    | 2025/05/27       | 2026/05/26           |
| EVERFINE     | AC Testing Power Source    | SLCS-S-310   | DPS1005   | 2025/05/27       | 2026/05/26           |
| EVERFINE     | DC Testing Power Source    | SLCS-S-311   | WY605     | 2025/05/27       | 2026/05/26           |
| OSRAM        | Standard Lamp              | SLCS-S-313   | DC24V/50W | 2025/06/02       | 2026/06/01           |



## 4. Test results

### 4.1 Spectrum



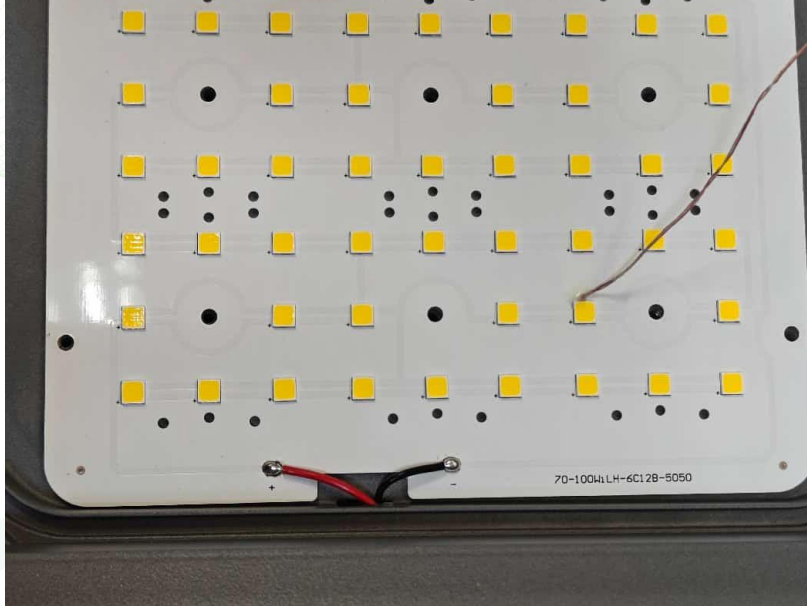
### 4.2 Result Summary

|                                          | Room Temperature<br>Initial Measurement<br>Tb,0 | First Elevated<br>Temperature<br>Tb,1 | Second Elevated<br>Temperature<br>Tb,2 =71.6°C |
|------------------------------------------|-------------------------------------------------|---------------------------------------|------------------------------------------------|
| Ambient<br>(°C)                          | 25.1                                            | 50.1                                  | 35.0                                           |
| Measured<br>Temperature of<br>Tb (°C)    | 59.7                                            | 85.5                                  | 71.6                                           |
| Input Power<br>(W)                       | 109.2                                           | 108.9                                 | 109.1                                          |
| Input Voltage (V)                        | 229.98                                          | 230.01                                | 229.99                                         |
| Input Current (A)                        | 0.4906                                          | 0.4892                                | 0.4901                                         |
| Luminous Flux<br>(lm)                    | 18487                                           | 18339                                 | 18437                                          |
| Luminous<br>Efficacy (lm/W)              | 169.29                                          | 168.40                                | 168.99                                         |
| CIE Chromaticity<br>(u')                 | 0.2215                                          | 0.2213                                | 0.2214                                         |
| CIE Chromaticity<br>(v')                 | 0.5093                                          | 0.5088                                | 0.5091                                         |
| Correlated Color<br>Temperature<br>(CCT) | 4003                                            | 4014                                  | 4007                                           |

## 5. UUT temperature monitoring point, Tb, Tc

### Photo document

Photos of AOK-110WiLH-NV-A5-00-4080-T2-A





## 6. Photo of sample

### Photo document

Photos of AOK-110WiLH-NV-A5-00-4080-T2-A



----- End of test report-----