

# TEST REPORT

LED Street Light

Test Model: AOK-240WiLH-NV-A5-00-4080-T2-A

Report Number : LCSB02256036S

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 : April 28, 2025  
Date of test : April 29, 2025 to January 26, 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>              | IES LM-84-14: Approved Method for Measuring Luminous Flux<br>and Color Maintenance of LED Lamps, Light Engines, and<br>Luminaires                                               |                  |
| <b>Test item description.....:</b> | LED Street Light                                                                                                                                                                |                  |
| <b>Trademark.....:</b>             |                                                                                                |                  |
| <b>Test Model/Type.....:</b>       | AOK-240WiLH-NV-A5-00-4080-T2-A                                                                                                                                                  |                  |
| <b>Rating.....:</b>                | AC120-277V, 50/60Hz, 240W                                                                                                                                                       |                  |
| <b>Test Results .....</b>          | Please see the following test data                                                                                                                                              |                  |
| <b>Prepare by.....:</b>            | Seth Cai<br>(Project Engineer)                                                                                                                                                  | <i>Seth Cai</i>  |
| <b>Check by.....:</b>              | Ian Luo<br>(Director)                                                                                                                                                           | <i>Ian Luo</i>   |
| <b>Approved by .....</b>           | Jesse Liu<br>(Manager)                                                                                                                                                          | <i>Jesse Liu</i> |
| <b>Test Report Form No.....:</b>   | TRF-4-S-126 A/0                                                                                                                                                                 |                  |
| <b>TRF Originator.....:</b>        | Shenzhen Southern LCS Compliance Testing Co., Ltd.                                                                                                                              |                  |
| <b>Master TRF.....:</b>            | /                                                                                                                                                                               |                  |

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## Table of Contents

|                              |   |
|------------------------------|---|
| 1. Test Method .....         | 4 |
| 2. Product Information ..... | 6 |
| 3. Test equipment list ..... | 6 |
| 4. Test results .....        | 7 |
| 5. Photo of sample .....     | 8 |



## 1. Test Method

### 1.1 Photometric and Electrical Measurement

Test Standard.....: IES LM-79-08:Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

Ambient Condition .....: 24.5°C

Stabilization time .....: 33 min

Orientation(burning position) of SSL product during test .....: 5 base-up and 5 base-down

Test Method .....: The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Lumen output, Lamp efficacy, 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. Input power, Power factor, Voltage, Current, were calculated from the digital power meter.

### 1.2 Luminous Flux and Color Maintenance Measurement

Test Standard.....: IES LM-84: Approved Method: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires

Ambient Condition .....: 50°C / 60%RH

Orientation(burning position) of SSL product during test .....: 5 base-up and 5 base-down

Test Method .....: Season the LED Lamp from 0 hours to 6000 hours. The sample are operated steady state (no cycling) for a period of 6000 hours. The samples are inspected at regular intervals ( 24 hours ) throughout the 6000 hours. The time and date of failure of each lamp is recorded. The actual elapsed time for each light package is in hour.

### 1.3 In-Situ Temperature Measurement Test (ISTMT)

Test Standard.....: Maximum led source operating temperature measurements were taken on one test sample per model with a thermocouple and temperature meter. The SSL sample was allowed to reach thermal equilibrium for at least 3 hours before measurements were taken. Led source temperature was measured at the point as indicated by the included diagram in accordance with manufacturers declared hot spot location. The maximum temperature was recorded for the sample.



| <b>Remarks.....:</b>    | 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. |                  |            |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|
| <b>REVISION HISTORY</b> |                                                                                                                                                                                                                                                                                                 |                  |            |
| Revision                | Issue Date                                                                                                                                                                                                                                                                                      | Revision Content | Revised by |
| 000                     | March 11, 2026                                                                                                                                                                                                                                                                                  | Initial Issue    | Seth Cai   |
|                         |                                                                                                                                                                                                                                                                                                 |                  |            |
|                         |                                                                                                                                                                                                                                                                                                 |                  |            |

Remark:  
000) : “---”  
Original Test Report “LCSB04285105S” dated January 27, 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-240WiLH-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-240WiLH-NV-A5-00-4080-T2-A |
| Rated Inputs.....:                | AC120-277V                     |
| Rated Power.....:                 | 240W                           |
| Declared CCT.....:                | 4000K                          |
| Date of Receipt Samples.....:     | April 28, 2025                 |
| Quantity of Receipt Samples.....: | 10 unit                        |

## 3. Test equipment list

| Manufacturer | Description                               | Equipment ID | Model     | Calibration Date | Calibration Due Date |
|--------------|-------------------------------------------|--------------|-----------|------------------|----------------------|
| EVERFINE     | Full-field Speed Goniophotometer          | SLCS-S-112   | GO-R5000  | 2025/05/27       | 2026/05/26           |
| EVERFINE     | Digital Power Meter                       | SLCS-S-103   | PF2010    | 2025/05/27       | 2026/05/26           |
| EVERFINE     | AC Testing Power Source                   | SLCS-S-115   | DPS1060   | 2025/05/27       | 2026/05/26           |
| EVERFINE     | Total Spectral Radiant Flux Standard Lamp | SLCS-S-143   | D908S     | 2025/06/02       | 2026/06/01           |
| 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

**Table 1: Functionality Requirements**

| Sample No. | Power (W) | luminous efficacy (lm/w) | Starting time (s) | Power Factor | Beam angle (°) | Color Temp (CCT) | Color rendering (Ra) | SDCM |
|------------|-----------|--------------------------|-------------------|--------------|----------------|------------------|----------------------|------|
| 1          | 233.30    | 174.48                   | 0.168             | 0.987        | 119.2          | 4068             | 82.1                 | 4.6  |
| 2          | 232.90    | 171.89                   | 0.159             | 0.986        | 119.1          | 4075             | 81.9                 | 4.8  |
| 3          | 234.05    | 175.46                   | 0.161             | 0.989        | 118.6          | 4035             | 82.4                 | 3.4  |
| 4          | 233.96    | 173.62                   | 0.172             | 0.988        | 118.3          | 4051             | 82.0                 | 3.8  |
| 5          | 232.17    | 176.82                   | 0.153             | 0.983        | 118.7          | 4074             | 81.6                 | 4.5  |
| 6          | 232.56    | 172.90                   | 0.166             | 0.984        | 119.0          | 4062             | 81.8                 | 4.9  |
| 7          | 234.19    | 173.28                   | 0.154             | 0.990        | 118.7          | 4088             | 82.3                 | 4.3  |
| 8          | 233.81    | 174.16                   | 0.170             | 0.989        | 118.4          | 4026             | 82.0                 | 3.9  |
| 9          | 233.09    | 175.88                   | 0.175             | 0.986        | 118.6          | 4049             | 82.2                 | 4.0  |
| 10         | 232.88    | 171.19                   | 0.162             | 0.985        | 119.2          | 4055             | 81.7                 | 4.9  |
| Avg.       | 233.29    | 173.97                   | 0.164             | 0.987        | 118.8          | 4058             | 82.0                 | 4.3  |

**Table 2: Survival Factor and Lumen Maintenance**

| Sample No. | Switching Cycle | Initial Luminous Flux (lm) | Premature Failure Rate 1000h | Survival factor at 6000h | Luminous Flux at 6000h | Lumen Maintenance at 6000h (%) |
|------------|-----------------|----------------------------|------------------------------|--------------------------|------------------------|--------------------------------|
| 1          | 15000           | 40705.1                    | P                            | P                        | 37920.9                | 93.16%                         |
| 2          | 15000           | 40033.2                    | P                            | P                        | 37559.1                | 93.82%                         |
| 3          | 15000           | 41066.4                    | P                            | P                        | 38857.0                | 94.62%                         |
| 4          | 15000           | 40620.1                    | P                            | P                        | 37732.0                | 92.89%                         |
| 5          | 15000           | 41052.3                    | P                            | P                        | 38429.1                | 93.61%                         |
| 6          | 15000           | 40209.6                    | P                            | P                        | 37403.0                | 93.02%                         |
| 7          | 15000           | 40580.4                    | P                            | P                        | 38214.6                | 94.17%                         |
| 8          | 15000           | 40720.3                    | P                            | P                        | 38488.9                | 94.52%                         |
| 9          | 15000           | 40995.9                    | P                            | P                        | 38499.2                | 93.91%                         |
| 10         | 15000           | 39866.7                    | P                            | P                        | 37303.3                | 93.57%                         |
| Avg.       | 15000           | 40585.0                    | P                            | P                        | 38040.7                | 93.73%                         |

## 5. Photo of sample

### Photo document

Photos of AOK-240WiLH-NV-A5-00-4080-T2-A



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