

TEST REPORT

LED Street Light

Test Model: AOK-300WiLH(XXL)-NV-A5-00-4070-BN-P

Report Number : LCSB03196010S

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
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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 : May 22, 2026
Date of test : May 25, 2026 to May 26, 2026
Date of issue : June 09, 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

Testing Laboratory.....:	Shenzhen Southern LCS Compliance Testing Co., Ltd. 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China	
Test Specification:		
Standard.....:	ANSI/IES LM-82-20: CHARACTERIZATION OF OPTICAL AND ELECTRICAL PROPERTIES OF SOLID-STATE LIGHTING PRODUCTS AS A FUNCTION OF TEMPERATURE	
Test item description.....:	LED Street Light	
Trademark..... :		
Test Model/Type.....:	AOK-300WiLH(XXL)-NV-A5-00-4070-BN-P	
Rating..... :	AC100-277V, 50/60Hz, 300W	
Test Results	Please see the following test data	
Prepare by..... :	Zero Huang (Project Engineer)	Zero Huang
Check by..... :	Ian Luo (Director)	Ian Luo
Approved by	Jesse Liu (Manager)	Jesse Liu
Test Report Form No.....:	TRF-4-S-125 A/0	
TRF Originator.....:	Shenzhen Southern LCS Compliance Testing Co., Ltd.	
Master TRF..... :	/	

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1. Test Method

Ambient Condition.....	25.3°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 Tb =Tb,0 (68.3°C)
Test Method	The sample was tested according to the ANSI/IES LM-79-19. Photometric parameters 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 Tb,1 =85.7°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 parameters 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 $T_{b,2}$ = 76.2°C
Test Method.....	The sample was tested with a device that controls the temperature T_b of the UUT, so that T_b reaches no lower than $T_{b,0} = 68.3^\circ\text{C}$. Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at $35^\circ\text{C} \pm 1^\circ\text{C}$. 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.

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.
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2. Product Information

Product description.....:	LED Street Light
Model Number.....:	AOK-300WiLH(XXL)-NV-A5-00-4070-BN-P
Rated Inputs.....:	AC100-277V
Rated Power.....:	300W
Declared CCT.....:	4000K
LED Manufacturer.....:	Shenzhen Tongyifang Optoelectronic Technology Co.,Ltd.
LED Model.....:	TS1-H50FL-1001BC
Forward current of the LED chip.....:	150mA
Date of Receipt Samples.....:	May 22, 2026
Quantity of Receipt Samples.....:	1 unit

3. Test equipment list

Manufacturer	Description	Equipment ID	Model	Calibration Date	Calibration Due Date
INVENTFINE	1.5 Meter Integrating Sphere	SLCS-S-144	2635A	2026/04/23	2027/04/22
EVERFINE	Digital Power Meter	SLCS-S-309	PF9810	2026/04/23	2027/04/22
EVERFINE	AC Testing Power Source	SLCS-S-310	DPS1005	2026/04/23	2027/04/22
EVERFINE	DC Testing Power Source	SLCS-S-311	WY605	2026/04/23	2027/04/22
OSRAM	Standard Lamp	SLCS-S-313	DC24V/50W	2026/05/12	2027/05/11

4. Test results

4.1 Room Temperature Initial Measurement $T_{b,0} = 68.3^{\circ}\text{C}$: Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.80	50.0	1.335	0.9808	300.8

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	57197	190.15	4243	71.9

4.2 Measurement at First Elevated Temperature $T_{b,1} = 85.7^{\circ}\text{C}$: Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.76	50.0	1.316	0.9781	295.7

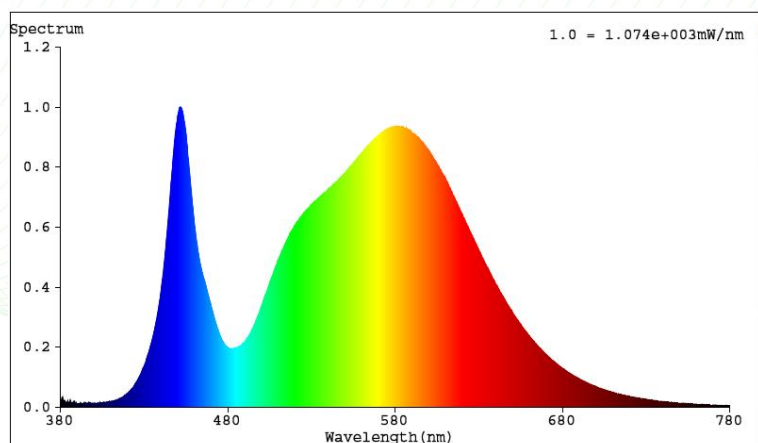
Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	54175	183.21	4255	72.2

4.3 Measurement at Second Elevated Temperature $T_{b,2} = 76.2^{\circ}\text{C}$: Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	229.81	50.0	1.326	0.9796	298.5

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	55787	186.89	4245	72.0

4.4 Spectrum



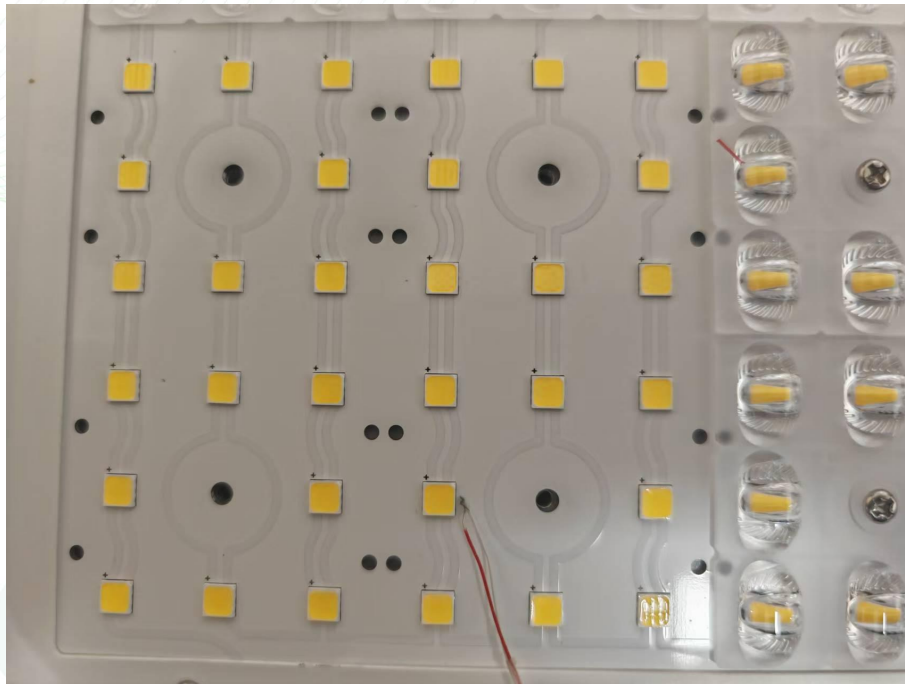
4.5 Result Summary

	Room Temperature Initial Measurement Tb,0	First Elevated Temperature Tb,1	Second Elevated Temperature Tb,2 =76.2°C
Ambient (°C)	25.3	50.1	35.1
Measured Temperature of Tb (°C)	68.3	85.7	76.2
Input Power (W)	300.8	295.7	298.5
Input Voltage (V)	229.80	229.76	229.81
Input Current (A)	1.335	1.316	1.326
Luminous Flux (lm)	57197	54175	55787
Luminous Efficacy (lm/W)	190.15	183.21	186.89
CIE Chromaticity (u')	0.2162	0.2162	0.2163
CIE Chromaticity (v')	0.5066	0.5060	0.5065
Correlated Color Temperature (CCT)	4243	4255	4245

5. UUT temperature monitoring point, Tb, Tc

Photo document

Photos of AOK-300WiLH(XXL)-NV-A5-00-4070-BN-P



6. Photo of sample

Photo document

Photos of AOK-300WiLH(XXL)-NV-A5-00-4070-BN-P



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