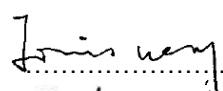
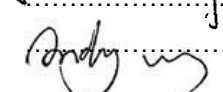


TEST REPORT	
Report Reference No.	: 4954467.52
Tested by (name + signature)	: Jimmy Wang 
Approved by (name + signature)	: Andy Wang 
Date of issue	: 2026-06-23
Total number of pages	: 13 pages
Testing Laboratory	: DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch
Testing location / address	: Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
Applicant	: 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
Test specification:	:
Standard(s)	: IEC 60068-2-68: 1994, IEC 60598-2-3: 2002, AMD1:2011 used in conjunction with IEC 60598-1: 2020 IEC 60598-2-5: 2015 used in conjunction with IEC 60598-1: 2020
Test procedure	: Partial test
Test object description	: LED Street Light
Trade Mark	: 
Manufacturer	: Same as applicant
Address	: Same as applicant
Factory	: Same as applicant
Address	: Same as applicant
Model/Type reference	: Refer to Attachment 1 for details
Ratings	: 220-240 VAC, 50/60 Hz, IP66, ta: 55 °C; non-user replaceable LEDs; Other information refers to Attachment 1 for details
Samples received in DEKRA Laboratory on	: 2026-05-25
Amount of samples received	: 2 pcs
Test Date	: 2026-05-25 to 2026-06-08
Possible test case verdicts:	
- test case applies to the test object but does not be checked : N/C	
- test case does not apply to the test object : N/A	
- test object does meet the requirement : <u>P(Pass)</u>	
- test object does not meet the requirement : F(Fail)	
Test program	: The test object has been submitted to a test program as mentioned on the next page.

Summary of test results:

Based on the test results given in this report, the submitted sample **did** comply with the relevant requirements mentioned in this report.

The test results shown in this report relate only to the tests performed according to the test program. The test object has not been submitted to a full test program.

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Test program:

Perform partial test as per applicant's requirement.

General remark:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, it is not necessary to calculate the uncertainty associated with the measurement result.

This report will not be used for social proof function in China market.

The products covered in this report are LED street lights, equipped with non-user replaceable LEDs. AOK-600WHMA-NV-A5-PH-6570-T2-A with shorting-circuit cap was subjected to dust and sand test according to the method La2 of IEC 60068-2-68:1994 as per the requirement of client's technical requirements and the test results were positive.

Copy of marking plate or identification photo:

N/A

Test Results:

Item	CONTENTS	PASS	FAIL	REMARK	N/A	N/C
1.	Dust and sand test according to the method La2 of IEC 60068-2-68:1994	√				

Technical Requirement:

1. Test conditions

1.1 Test dust

The test dust consists of dry fine-granular non-abrasive powder which shall be able to pass through a square-meshed sieve with a nominal wire diameter of 50 µm and a nominal width between wires of 75 µm.

Talc can be used for this test.

The test dust shall not be used for more than 20 tests. Care should be taken to keep the powder dry to maintain its fine granularity. It shall be dried by heating for 2 h at +80 °C before use.

1.2 Dust concentration

The quantity of test dust used for the test shall be at least 2 kg per cubic metre test chamber volume.

1.3 Air flow

The air flow in the test chamber shall be mainly vertical from top to bottom and it should not be laminar.

1.4 Air velocity

The air velocity shall give the possibility to generate a homogeneous distribution of the dust in the test chamber.

1.5 Humidity

The relative humidity in the test chamber shall be less than 25 %. This may be achieved by raising the test chamber air temperature.

1.6 Air pressure in the specimen

Category 1: enclosures where an air pressure different from the environmental atmospheric air pressure may occur, for example caused by thermal cycling effects during operation.

A specimen with a category 1 enclosure shall be introduced into the test chamber and mounted in its normal operating position. It shall then be connected to a vacuum pump which maintains the air pressure inside the specimen below atmospheric air pressure. For this purpose, a suitable hole in the enclosure should be provided. If there is already a drain hole for condensed water in the walls of the enclosure, the vacuum pipe shall be connected to this hole. No special hole for the test shall be drilled in this case. If there is more than one drain hole in the walls of the enclosure, the vacuum pipe shall be connected to one of them and the others shall be sealed during the test.

1.7 Severities

The severity defined by the air pressure and by duration of test, depending on the category of enclosure shall be prescribed by the relevant specification.

Category 1

Air pressure:

- 2 kPa (20 mbar), 5 kPa (50 mbar) or 10 kPa (100 mbar).

Duration of the test

- if, with the maximum reduced pressure stated in the relevant specification, the rate of air flow is less than 40 volumes per hour, the test shall be continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

- if a rate of air flow of 40 to 60 volumes per hour is attained, the duration is 2 h.

The object of the test is to extract from the specimen a volume of air corresponding to at least 80 times the free volume of air inside the enclosure of the specimen. However, the rate of extraction shall at no time exceed 60 volumes per hour.

2. Initial measurements

According to IEC 60598-2-3:2002, AMD1:2011 & IEC 60598-2-5: 2015 used in conjunction with IEC 60598-1:2020, the specimen shall be submitted to thermal test.

3. Testing

The test chamber air shall be at a temperature high enough to ensure a relative humidity of 25 % or less. The specimen, while being at the ambient temperature of the laboratory, shall be introduced into the test

Technical Requirement:

chamber in the unpacked, switched-off, “ready for use” state, in its normal operating position or as otherwise specified by the relevant specification. In the case of multiple specimens care shall be taken that the specimens neither touch each other nor shield each other against the influence of dust.

It is called for the specimen to be switched off during the test.

When the specimen has been introduced into the test chamber, the vacuum pump shall be connected and switched on if this applies.

The testing begins by injecting the test dust.

At the end of the conditioning the vacuum pump shall be switched off and the specimen shall remain in the closed test chamber until the dust has settled.

4. Recovery

The specimen shall remain under standard atmospheric conditions for recovery 2 h.

5. Cleaning

It may prescribe removal of external surface dust to be carried out prior to final measurements.

6. Final measurements

After recovery, the protection is satisfactory if no deposit of dust is observable inside the enclosure and the specimen shall be submitted to thermal test, according to IEC 60598-2-3:2002, AMD1:2011 & IEC 60598-2-5:2015 used in conjunction with IEC 60598-1:2020.

Test Procedure and Verdict:**1. Initial measurements (Thermal test)**

IEC 60598-2-3:2002, AMD1:2011 & IEC 60598-2-5: 2015 used in conjunction with IEC 60598-1:2020			
Clause	Requirement + Test	Result - Remark	Verdict

12 (12)	ENDURANCE TEST AND THERMAL TEST		P
12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P

Before Dust and Sand test

ANNEX 2	TABLE: Thermal tests of Section 12		P
	Type reference	AOK-600WHMA-NV-A5-PH-6570-T2-A	—
	Lamp used	Non-user replaceable LEDs	—
	Lamp control gear used	—	—
	Mounting position of luminaire	On a pipe	—
	Supply wattage (W)	590 W (Power factor: 0,978)	—
	Supply current (A)	2,37 A	—
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55	—
	- abnormal operating mode	—	—
3.12 (12.4)	- test 1: rated voltage	—	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,06 x 240 V = 254,4 V	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	—	—
	Through wiring or looping-in wiring loaded by a current of A during the test	—	—
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	—	—

Temperature measurements (°C)

Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
T1	55	—	97,2	—	—	—	—
T2	55	—	65,3	—	90	—	—
T3	55	—	65,0	—	90	—	—
T4	55	—	98,9	—	—	—	—
T5	55	—	96,7	—	—	—	—

Supplementary information:

Measurements were taken after the luminaire had stabilized thermally in test 2.

Because the lamp is used outdoors, the temperature measured in the test cover has been subtracted by 10 °C.

Test Procedure and Verdict:**After Dust and Sand test**

ANNEX 2	TABLE: Thermal tests of Section 12		P				
	Type reference	AOK-600WHMA-NV-A5-PH-6570-T2-A	—				
	Lamp used	Non-user replaceable LEDs	—				
	Lamp control gear used	—	—				
	Mounting position of luminaire.....	On a pipe	—				
	Supply wattage (W)	590 W (Power factor: 0,979)	—				
	Supply current (A)	2,37 A	—				
	Temperatures in test 1 - 4 below are corrected for ta (°C)	55	—				
	- abnormal operating mode	—	—				
3.12 (12.4)	- test 1: rated voltage	—	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,06 x 240 V = 254,4 V	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	—	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	—	—				
3.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage.....	—	—				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
T1	55	—	96,9	—	—	—	—
T2	55	—	64,5	—	90	—	—
T3	55	—	64,4	—	90	—	—
T4	55	—	97,7	—	—	—	—
T5	55	—	95,9	—	—	—	—
Supplementary information:							
Measurements were taken after the luminaire had stabilized thermally in test 2.							
Because the lamp is used outdoors, the temperature measured in the test cover has been subtracted by 10 °C.							

Test Procedure and Verdict:**Visual inspection**

According to: IEC 60068-2-68:1994			
Test items	Acceptance conditions	Test result	Verdict
The degree of protection against ingress of fine dust	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test. The function shall be normal.	1. No dust is visible in the enclosure of the sample. 2. No abnormal function. 3. The increased heat inside the housing enclosure with dust and sand is less than 10% of the heat inside without the accumulation.	P

PHOTOS OF SAMPLES AND TEST:

For AOK-600WHMA-NV-A5-PH-6570-T2-A



Fig 1: Sample



Fig 2: Sample



Fig 3: Sample



Fig 4: Sample



Fig 5: Sample



Fig 6: Sample

PHOTOS OF SAMPLES AND TEST:

For AOK-600WHMA-NV-A5-PH-6570-T2-A



Fig. 7: Sample



Fig. 8: Sample

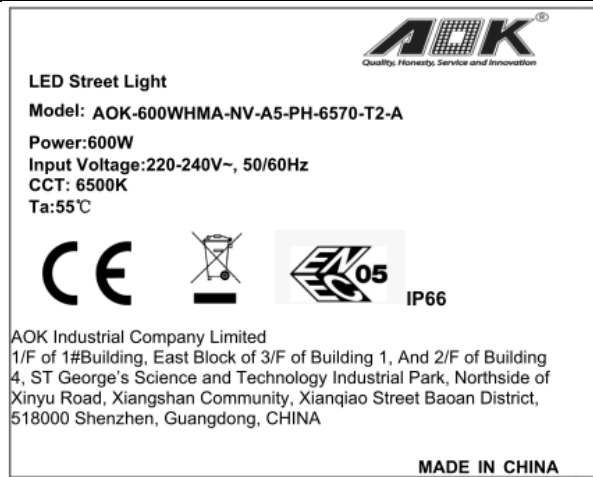


Fig. 9: Sample nameplate

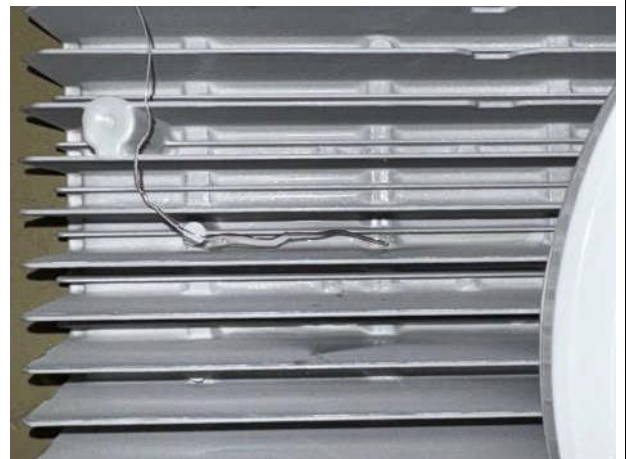
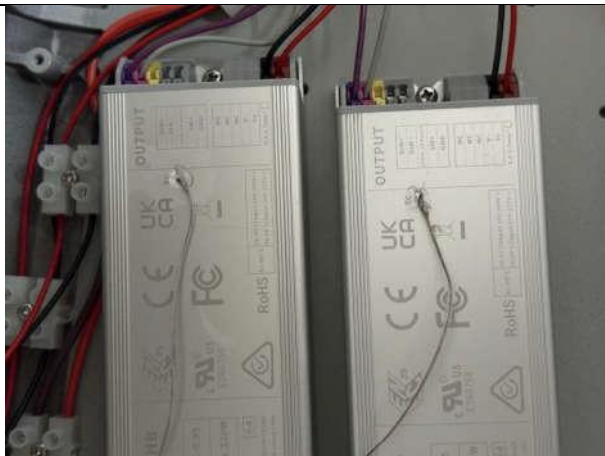


Fig. 10: Thermal test(Temperature test point T1)

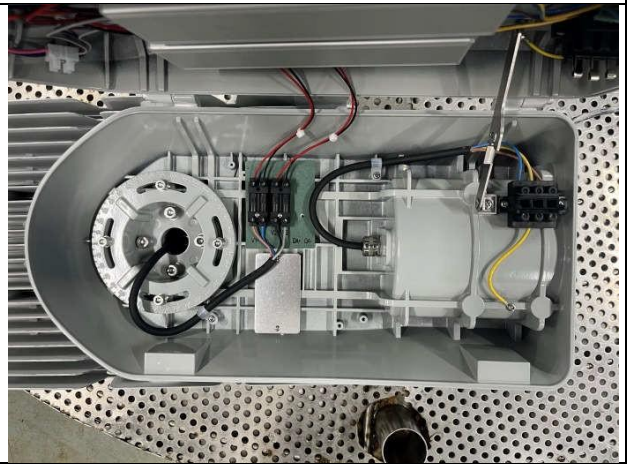
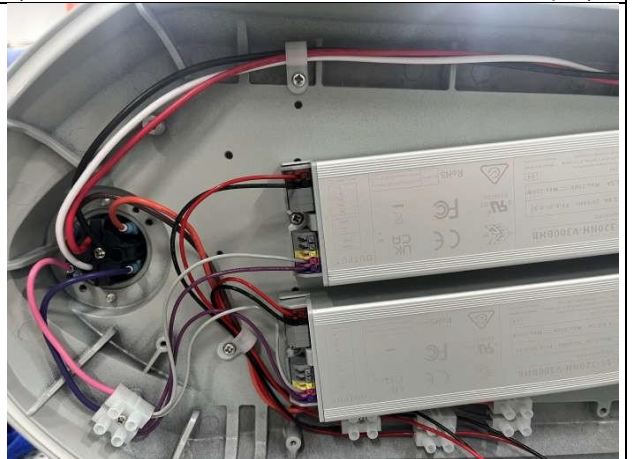
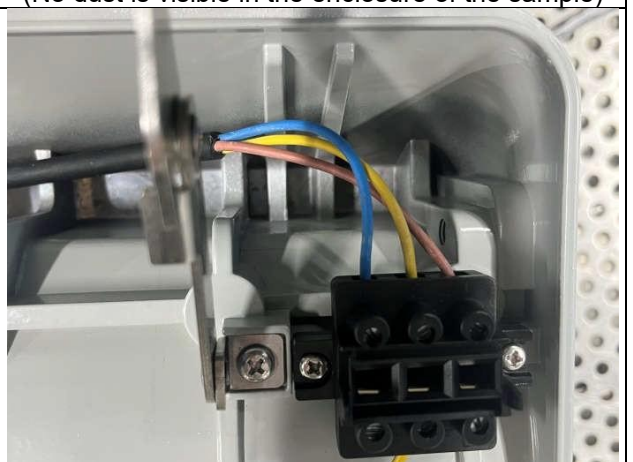
Fig. 11: Thermal test (Temperature test point T2 for left)
(Temperature test point T3 for right)Fig. 12: Thermal test (Temperature test point T4 for upper)
(Temperature test point T5 for lower)

PHOTOS OF SAMPLES AND TEST:

For AOK-600WHMA-NV-A5-PH-6570-T2-A



Fig. 13: Dust and sand test

Fig. 14: After the dust and sand test
(No dust is visible in the enclosure of the sample)Fig. 15: After the dust and sand test
(No dust is visible in the enclosure of the sample)Fig. 16: After the dust and sand test
(No dust is visible in the enclosure of the sample)Fig. 17: After the dust and sand test
(No dust is visible in the enclosure of the sample)Fig. 18: After the dust and sand test
(No dust is visible in the enclosure of the sample)

PHOTOS OF SAMPLES AND TEST:

For AOK-600WHMA-NV-A5-PH-6570-T2-A



Fig. 19: After the dust and sand test
(No dust is visible in the enclosure of the sample)



Fig. 20: After the dust and sand test
(No dust is visible in the enclosure of the sample)

Attachment 1: Detailed Model List

No.	Model	Power(W)
1	AOK-250WHMA-NV-ZZ-DD-XXYY-BN-A	250
2	AOK-260WHMA-NV-ZZ-DD-XXYY-BN-A	260
3	AOK-270WHMA-NV-ZZ-DD-XXYY-BN-A	270
4	AOK-280WHMA-NV-ZZ-DD-XXYY-BN-A	280
5	AOK-290WHMA-NV-ZZ-DD-XXYY-BN-A	290
6	AOK-300WHMA-NV-ZZ-DD-XXYY-BN-A	300
7	AOK-310WHMA-NV-ZZ-DD-XXYY-BN-A	310
8	AOK-320WHMA-NV-ZZ-DD-XXYY-BN-A	320
9	AOK-330WHMA-NV-ZZ-DD-XXYY-BN-A	330
10	AOK-340WHMA-NV-ZZ-DD-XXYY-BN-A	340
11	AOK-350WHMA-NV-ZZ-DD-XXYY-BN-A	350
12	AOK-360WHMA-NV-ZZ-DD-XXYY-BN-A	360
13	AOK-370WHMA-NV-ZZ-DD-XXYY-BN-A	370
14	AOK-380WHMA-NV-ZZ-DD-XXYY-BN-A	380
15	AOK-390WHMA-NV-ZZ-DD-XXYY-BN-A	390
16	AOK-400WHMA-NV-ZZ-DD-XXYY-BN-A	400
17	AOK-410WHMA-NV-ZZ-DD-XXYY-BN-A	410
18	AOK-420WHMA-NV-ZZ-DD-XXYY-BN-A	420
19	AOK-430WHMA-NV-ZZ-DD-XXYY-BN-A	430
20	AOK-440WHMA-NV-ZZ-DD-XXYY-BN-A	440
21	AOK-450WHMA-NV-ZZ-DD-XXYY-BN-A	450
22	AOK-460WHMA-NV-ZZ-DD-XXYY-BN-A	460
23	AOK-470WHMA-NV-ZZ-DD-XXYY-BN-A	470
24	AOK-480WHMA-NV-ZZ-DD-XXYY-BN-A	480
25	AOK-490WHMA-NV-ZZ-DD-XXYY-BN-A	490
26	AOK-500WHMA-NV-ZZ-DD-XXYY-BN-A	500
27	AOK-510WHMA-NV-ZZ-DD-XXYY-BN-A	510
28	AOK-520WHMA-NV-ZZ-DD-XXYY-BN-A	520
29	AOK-530WHMA-NV-ZZ-DD-XXYY-BN-A	530
30	AOK-540WHMA-NV-ZZ-DD-XXYY-BN-A	540
31	AOK-550WHMA-NV-ZZ-DD-XXYY-BN-A	550
32	AOK-560WHMA-NV-ZZ-DD-XXYY-BN-A	560
33	AOK-570WHMA-NV-ZZ-DD-XXYY-BN-A	570
34	AOK-580WHMA-NV-ZZ-DD-XXYY-BN-A	580
35	AOK-590WHMA-NV-ZZ-DD-XXYY-BN-A	590
36	AOK-600WHMA-NV-ZZ-DD-XXYY-BN-A	600

Description:

ZZ= Can be any letter to denote LED chip manufacturer ;
DD = Denotes dimming control , which can be as follows -00=No sensor provided, PH = Plug in photo control or NEMA cap provided, DV =Dimming function;
XX = Can be any number to denote color temperature of LED
YY = Can be any number to denote Color Rendering Index of LED
BN = Can be any letter to denote beam angle

---End---