

Technical Report No.: 68.140.26.01269.01

Date: 2026-01-29

Client: Name: 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, PEOPLE'S REPUBLIC OF CHINA

Manufacturer: Name: Same as client
Address: Same as client

Factory: Name: Same as client
Address: Same as client

Test object: Product: Luminaires for road and street lighting (LED Street Light)
Model: AOK-50WiLH-NV-A5-00-XXYY-BN-P;
AOK-60WiLH-NV-A5-00-XXYY-BN-P;
AOK-70WiLH-NV-A5-00-XXYY-BN-P;
AOK-80WiLH-NV-A5-00-XXYY-BN-P;
AOK-90WiLH-NV-A5-00-XXYY-BN-P;
AOK-100WiLH-NV-A5-00-XXYY-BN-P;
AOK-50WiLH-NV-L3-00-XXYY-BN-P;
AOK-60WiLH-NV-L3-00-XXYY-BN-P;
AOK-70WiLH-NV-L3-00-XXYY-BN-P;
AOK-80WiLH-NV-L3-00-XXYY-BN-P;
AOK-90WiLH-NV-L3-00-XXYY-BN-P;
AOK-100WiLH-NV-L3-00-XXYY-BN-P;
AOK-110WiLH-NV-A5-00-XXYY-BN-P;
AOK-120WiLH-NV-A5-00-XXYY-BN-P;
AOK-130WiLH-NV-A5-00-XXYY-BN-P;
AOK-140WiLH-NV-A5-00-XXYY-BN-P;
AOK-150WiLH-NV-A5-00-XXYY-BN-P;
AOK-110WiLH-NV-L3-00-XXYY-BN-P;
AOK-120WiLH-NV-L3-00-XXYY-BN-P;
AOK-130WiLH-NV-L3-00-XXYY-BN-P;
AOK-140WiLH-NV-L3-00-XXYY-BN-P;
AOK-150WiLH-NV-L3-00-XXYY-BN-P
(‘XX’ stands for CCT of LED, can be 27, 30, 40, 50, 57 and 65, 27=2700K, 30=3000K, 40=4000K, 50=5000K, 57=5700K, 65=6500K;

'YY' stands for CRI (color rendering index), can be 70, 80 and 90, 70=Ra: 70, 80=Ra: 80, 90=Ra: 90;
 'BN' stands for beam angles Type, can be T201, T211, T221, T231, T252, T301, T311, T312, T321, T331, T401, T411 and T502,
 T201=85°*150°, T211=110°*155°, T221=75°*150°,
 T231=100°*160°, T252=85°*160°, T301=100°*160°,
 T311=90°*150°, T312=85°*155°, T321=100°*145°,
 T331=120°*160°, T401=125°*160°,
 T411=115°*145°, T502=150°*150°)

Trade mark:



Test specification: IP66 test according to cl. 11.2.3 and 11.2.9 of IEC 60598-1:2024 and EN IEC 60598-1:2024+A11:2024

Purpose of examination: • Testing and evaluation according to the test specification

Test result: The test results show that the presented products are in compliance with the above listed test specifications.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see Testing, Certification, Validation and Verification Regulations, chapter A-3.3.

1. Description of the test object

1.1 Picture(s)

See 'Appendix 2 Photo document' for details

1.2 Function

Manufacturer's specification for intended use:
LED Street Light for outdoor use only.

1.3 Consideration of the foreseeable use

- ☐ Not applicable
- ☒ Covered through the applied standard
- ☐ Covered by the following comment*
- ☐ Covered by attached risk analysis

*

1.4 Technical Data

Luminaires for road and street lighting (LED Street Light)

Rated Input : 220-240VAC; 50/60Hz
Rated Power : See 'Appendix 1 Model list' for details
Degree of Protection : IP66

2. Order

2.1 Date of Purchase Order, Customer's Reference

2025-12-16

2.2 Test Sample(s)

- Reception date(s): 2025-12-16
- Location(s) of reception: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business
Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong 518052, China
- Condition of test sample(s): Good

2.3 Testing

- Testing date(s): 2025-12-16 to 2026-01-29

- Location(s) of testing: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business
Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong 518052, China

2.4 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

- Decision rule according to IEC Guide 115:2023, clause 4.3.3 Simple acceptance was applied.

3.1 Positive Test Results

IP6X test (clause 11.2.3 of IEC/EN IEC 60598-1)

Test condition:

- The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved.
- The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber.
- The door of the dust chamber is closed.
- The fan/blower causing the talcum powder to be in suspension is switched on.
- After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension.

Test apparatus:

- Dust chamber similar to that shown in Figure 40 of IEC 60598-1.
- The chamber shall contain 2 kg of powder for every cubic metre of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominwire diameter is 50µm and whose nominal free distance between wires is 75µm.
- The talcum powder shall not have been used for more than 20 tests.
- Talcum powder is maintained in suspension by an air current.

Test Result: Pass.

After test, the luminaires can withstand the electric strength test and there was no deposit of talcum powder inside enclosures of luminaires.

IPX6 test (clause 11.2.9 of IEC/EN IEC 60598-1)

Test condition:

- The luminaires are mounted in normal use and placed in the most unfavourable position, the water for the test is at a temperature of 15°C ±10°C.

- b) The luminaire complete with lamp is switched on and brought to stable operating temperature at rated voltage.
- c) The luminaire is switched off and immediately subjected to a water jet for 3min from all directions by means of a hose having a nozzle with the shape and dimensions shown in Figure 42 of IEC/EN IEC 60598-1, the nozzle is held 3m away from the sample.
- d) The water pressure at the nozzle is adjusted to achieve a water flow rate of 100l/min \pm 5% (approximately 100kN/m²).

Test Result: Pass.

After test, the luminaire can withstand the electric strength test and there is no water entry into the luminaire.

3.2 Points of Non-Compliance according to the test specification

- None

4. Test History

- None

5. Remarks

All models have similar construction.

Model AOK-150WiLH-NV-A5-00-6570-T221-P was chosen as representative model to perform this test.

6. Summary

The test specifications are met.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch TÜV SÜD Group

Tested by:



Jared Jiang, Project Handler

Approved by:



Sunny Yan, Designated Reviewer

Appendix 1 Model list:

Model No.	Rated Power (W)	LED driver	LED type	LED Qty. (pcs)	Size (mm)	Weight (kg)	Max. projected area (m ²)
AOK-50WiLH-NV-A5-00-XXYY-BN-P	50	SS-100NH-V300BHB	5050: TS1-H50YL-1001BB	72	545*200*97	3.0	0.091
AOK-60WiLH-NV-A5-00-XXYY-BN-P	60						
AOK-70WiLH-NV-A5-00-XXYY-BN-P	70						
AOK-80WiLH-NV-A5-00-XXYY-BN-P	80						
AOK-90WiLH-NV-A5-00-XXYY-BN-P	90						
AOK-100WiLH-NV-A5-00-XXYY-BN-P	100						
AOK-50WiLH-NV-L3-00-XXYY-BN-P	50		3030: LUXEON 3030 2D	144			
AOK-60WiLH-NV-L3-00-XXYY-BN-P	60						
AOK-70WiLH-NV-L3-00-XXYY-BN-P	70						
AOK-80WiLH-NV-L3-00-XXYY-BN-P	80						
AOK-90WiLH-NV-L3-00-XXYY-BN-P	90						
AOK-100WiLH-NV-L3-00-XXYY-BN-P	100						
AOK-110WiLH-NV-A5-00-XXYY-BN-P	110	SS-150NH-V300BHB	5050: TS1-H50YL-1001BB	96	609*235*97	4.0	0.12
AOK-120WiLH-NV-A5-00-XXYY-BN-P	120						
AOK-130WiLH-NV-A5-00-XXYY-BN-P	130						
AOK-140WiLH-NV-A5-00-XXYY-BN-P	140						
AOK-150WiLH-NV-A5-00-XXYY-BN-P	150						
AOK-110WiLH-NV-L3-00-XXYY-BN-P	110		3030: LUXEON 3030 2D	192			
AOK-120WiLH-NV-L3-00-XXYY-BN-P	120						
AOK-130WiLH-NV-L3-00-XXYY-BN-P	130						
AOK-140WiLH-NV-L3-00-XXYY-BN-P	140						
AOK-150WiLH-NV-L3-00-XXYY-BN-P	150						

Appendix 2 Photo document

Details of: Front view for AOK-100WiLH-NV-A5-00-6570-T221-P (Representative model)

Remark:



Details of: Back view for AOK-100WiLH-NV-A5-00-6570-T221-P (Representative model)

Remark:



Details of: Front view for AOK-150WiLH-NV-A5-00-6570-T221-P (Representative model)

Remark:

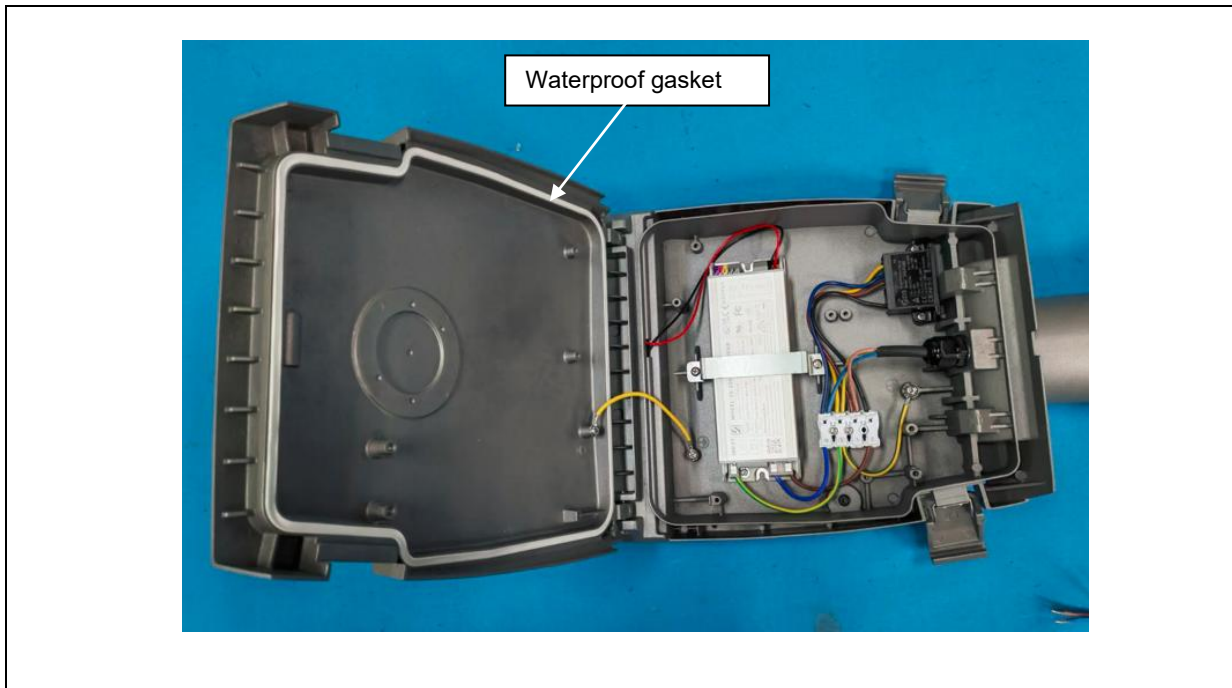


Details of: Back view for AOK-150WiLH-NV-A5-00-6570-T221-P (Representative model)

Remark:



Details of: Internal view for AOK-150WiLH-NV-A5-00-6570-T221-P (Representative model)
 Remark:



Details of: Internal view for AOK-150WiLH-NV-A5-00-6570-T221-P (Representative model)
 Remark:



Details of: LED module PCB view for AOK-150WILH-NV-A5-00-6570-T221-P (Representative model)

Remark:



--- End of Report ---