

Technical Report No.: 68.140.26.01270.01

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;

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'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: Mechanical strength test (IK09) according to IEC 62262:2002, IEC 62262:2002/AMD1:2021, EN 62262:2002+A1:2021

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.

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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

Mechanical strength test (IK09) for glass cover and metal enclosure, as below:

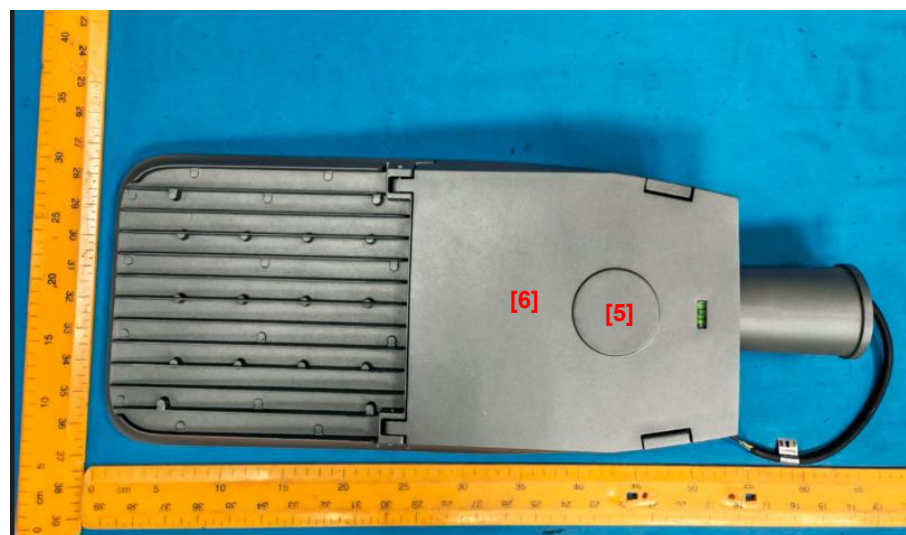
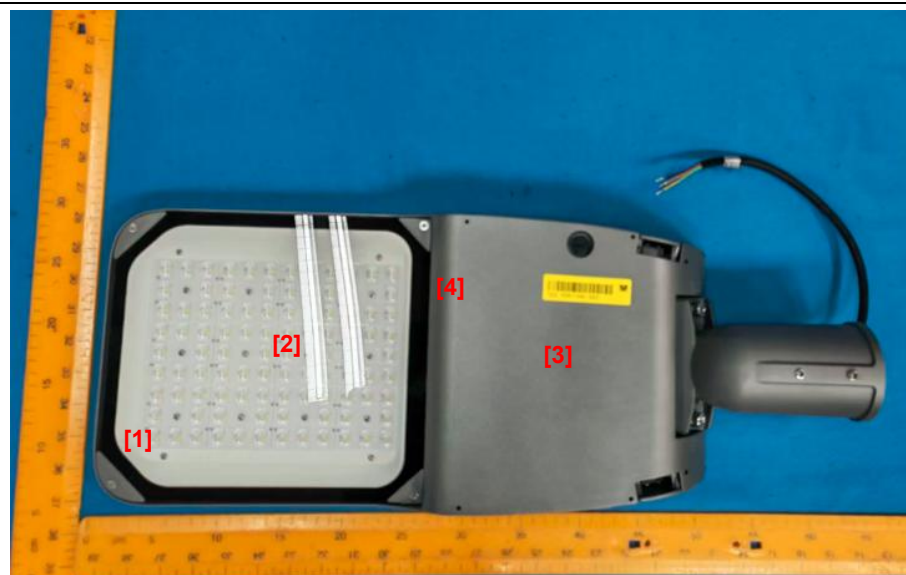
IEC/EN 62262			
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL TEST REQUIREMENTS		—
5.1	Ambient temperature		—
	Air pressure		—
5.3	Product standard		—
	EN 60598-1:2015+A1:2018		—
	Test equipment/ striking element used (IEC 60068-2-75)	Vertical hammer	P
	Number of samples tested (TR 62696)	1	P
	Specially prepared luminaire	N	P
	Condition of mounting (set-up) (ceiling mounted, floor, vertical wall mounted)	Floor	P
	Appliance energised		N/A
	Number of impacts (TR 62696)	3	P
	CLASSIFICATION OF LUMINAIRES		—
	IK 01/0.14J		N/A
	IK 02/0.2J		N/A
	IK 03/0.35J		N/A

	IK 04/0.5J		N/A
	IK 05/0.7J		N/A
	IK 06/1J		N/A
	IK 07/2J		N/A
	IK 08/5J		N/A
	IK 09/10J		P
	IK 10/20J		N/A
	IK 11/50J		N/A
	Degree of protection.....: IP66		—
4	Condition of acceptance		—
4.1	Safety of the luminaire maintained as 4.13 of EN 60598-1?		P
	IP rating retested		P
	Fixing to the mounting surface remain safe		N/A
	No safety critical damage enclosure / optics		P
	No parts detached		P
4.2	Protection of light source still provided		P
	Basic functioning maintained		P

Picture appliance before test with point of impact verified

Test part	Impact point	Impact energy (J)	Test result	Verdict
Glass cover	[1]; [2]	10	No damage	Pass
Metal enclosure	[3]; [4]; [5]; [6]	10	No damage	Pass

Impact point view for test model AOK-150WiLH-NV-A5-00-6570-T221-P



3.2 Points of Non-Compliance according to the test specification

- None

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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 (m²)
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:

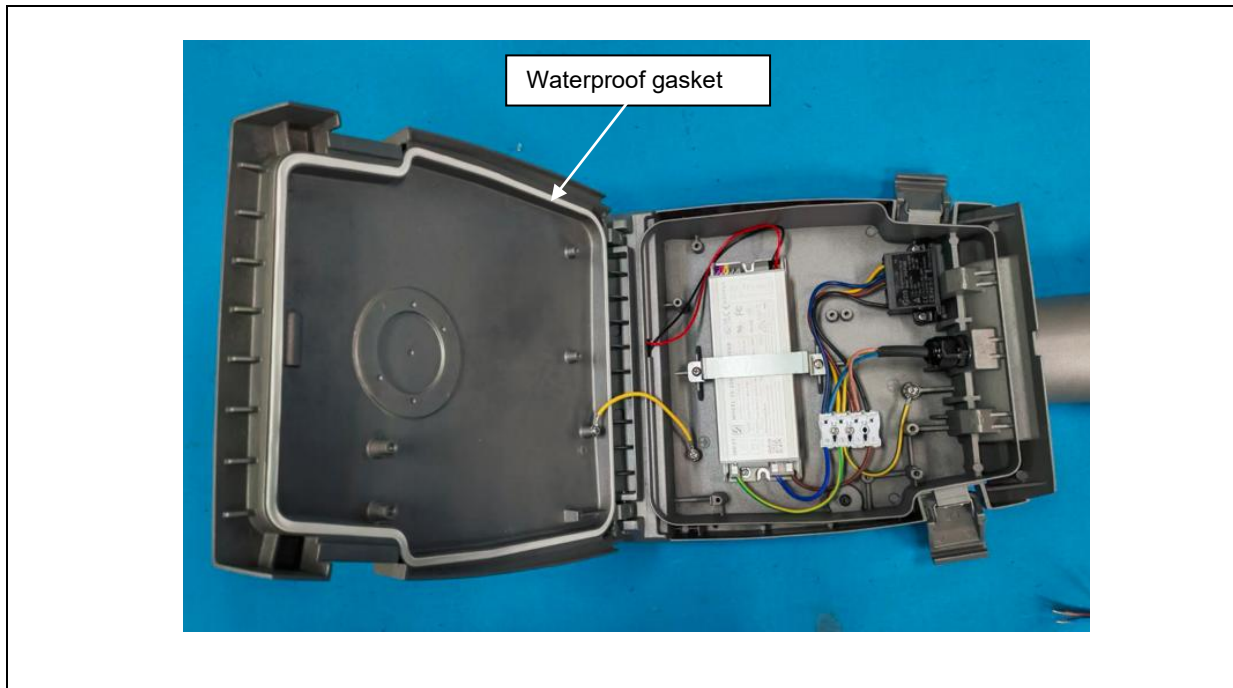


Details of: Back view for AOK-150WiLH-NV-A5-00-6570-T221-P (Representative model)

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 ---