

Technical Report No.: 68.140.22.0362.01

Date: 2022-07-08

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, Xianqiao Street Baoan District, 518000 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA
Client: Contact person: Wei Yi
Manufacturer's name: Same as client
Address: Same as client
Factory: Factory's name: Same as client
Address: Same as client
Product: LED Garden Light
AOK-20WiP-NV-L3-00-XX70-BN-P-I;
AOK-25WiP-NV-L3-00-XX70-BN-P-I;
AOK-30WiP-NV-L3-00-XX70-BN-P-I;
AOK-40WiP-NV-L3-00-XX70-BN-P-I;
AOK-50WiP-NV-L3-00-XX70-BN-P-I;
AOK-60WiP-NV-L3-00-XX70-BN-P-I;
AOK-75WiP-NV-L3-00-XX70-BN-P-I;
AOK-120WiP-NV-L3-00-XX70-BN-P-I;
AOK-20WiP-NV-L3-00-XX80-BN-P-I;
AOK-25WiP-NV-L3-00-XX80-BN-P-I;
AOK-30WiP-NV-L3-00-XX80-BN-P-I;
AOK-40WiP-NV-L3-00-XX80-BN-P-I;
AOK-50WiP-NV-L3-00-XX80-BN-P-I;
AOK-60WiP-NV-L3-00-XX80-BN-P-I;
AOK-75WiP-NV-L3-00-XX80-BN-P-I;
AOK-120WiP-NV-L3-00-XX80-BN-P-I;
AOK-25WiPS-NVM-L3-00-XX70-BN-P;
AOK-25WiPS-NVM-L3-00-XX80-BN-P;
AOK-50WiPS-NVM-L3-00-XX70-BN-P;
AOK-50WiPS-NVM-L3-00-XX80-BN-P;
AOK-60WiPS-NVM-L3-00-XX70-BN-P;
AOK-60WiPS-NVM-L3-00-XX80-BN-P;
AOK-20WiPS-NVS-L3-00-XX70-BN-P;
AOK-20WiPS-NVS-L3-00-XX80-BN-P;
AOK-25WiPS-NVS-L3-00-XX70-BN-P;
AOK-25WiPS-NVS-L3-00-XX80-BN-P;
AOK-50WiPS-NVS-L3-00-XX70-BN-P;
AOK-50WiPS-NVS-L3-00-XX80-BN-P;
AOK-60WiPS-NVS-L3-00-XX70-BN-P;
AOK-60WiPS-NVS-L3-00-XX80-BN-P;
Type: AOK-25WiPS-NVM-L3-00-XX70-BN-P;
AOK-25WiPS-NVM-L3-00-XX80-BN-P;
AOK-50WiPS-NVM-L3-00-XX70-BN-P;
AOK-50WiPS-NVM-L3-00-XX80-BN-P;
AOK-60WiPS-NVM-L3-00-XX70-BN-P;
AOK-60WiPS-NVM-L3-00-XX80-BN-P;
AOK-20WiPS-NVS-L3-00-XX70-BN-P;
AOK-20WiPS-NVS-L3-00-XX80-BN-P;
AOK-25WiPS-NVS-L3-00-XX70-BN-P;
AOK-25WiPS-NVS-L3-00-XX80-BN-P;
AOK-50WiPS-NVS-L3-00-XX70-BN-P;
AOK-50WiPS-NVS-L3-00-XX80-BN-P;
AOK-60WiPS-NVS-L3-00-XX70-BN-P;
AOK-60WiPS-NVS-L3-00-XX80-BN-P;
Test object: AOK-25WiPS-NVM-L3-00-XX70-BN-P;
AOK-25WiPS-NVM-L3-00-XX80-BN-P;
AOK-50WiPS-NVM-L3-00-XX70-BN-P;
AOK-50WiPS-NVM-L3-00-XX80-BN-P;
AOK-60WiPS-NVM-L3-00-XX70-BN-P;
AOK-60WiPS-NVM-L3-00-XX80-BN-P;
AOK-20WiPS-NVS-L3-00-XX70-BN-P;
AOK-20WiPS-NVS-L3-00-XX80-BN-P;
AOK-25WiPS-NVS-L3-00-XX70-BN-P;
AOK-25WiPS-NVS-L3-00-XX80-BN-P;
AOK-50WiPS-NVS-L3-00-XX70-BN-P;
AOK-50WiPS-NVS-L3-00-XX80-BN-P;
AOK-60WiPS-NVS-L3-00-XX70-BN-P;
AOK-60WiPS-NVS-L3-00-XX80-BN-P;

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Product Service

('XX' stands for CCT of LED, can be any numbers from 27 to 65, e.g. 27=2700K, 65=6500K; 'BN' stands for type of LED lens, can be T4 and T5; 'P' stands for internal code, can be 'A' or 'D')

Trademark:  (AOK)

Test specification:

- EN 60598-2-3:2003+A1:2011
- EN 60598-1:2015+A1:2018
- EN 62493:2015

Purpose of examination:

- Inspection according to specified requirements to realize the observance of the protection aims of the following UK legislation: Electrical Equipment (Safety) Regulations 2016
- Testing and evaluation (visual / partial) according to the test specification

Test result:

The test results show that the presented products are in compliance with the specific requirements.

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 and certification regulation, chapter A-3.4.

1. Description of the test object

1.1 Picture(s)

Representative model: AOK-120WiP-NV-L3-00-6570-T5-D-I



1.2 Function

Manufacturer's specification for intended use:
LED Garden Light suitable for indoor and outdoor use

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 Garden Light)

Rated Voltage	: Refer to Appendix No.1 for details
Rated Frequency	: 50/60Hz
Rated Power	: Refer to Appendix No.1 for details
Protection Class	: I
Degree of Protection	: IP66
Blue Light Risk Group	: RG1
ta	: Refer to Appendix No.1 for details

2. Order

Project No: 68.140.22.0362.01
Rev.: 00
Date: 2022-07-08

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TUV®

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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Nantou, Nanshan District, Shenzhen, Guangdong 518052, China
Telephone : +86 755 8828 6998
Telefax : +86 755 8828 5299

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2.1 Date of Purchase Order, Customer's Reference

2022-06-29

2.2 Test Samples

- Reception dates: 2022-06-29
- 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 Date of Testing 2022-06-29 to 2022-07-08

2.4 Location 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

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

- None

3. Test Results

- "Decision rule according to IEC Guide 115:2021, clause 4.4.3, 4.5.1 was applied."

3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Electrical safety:	68.140.22.0362.01	2022-07-08	--
EMF:	68.140.22.0362.01	2022-07-08	--

3.2 Points of Non-Compliance according to the test specification

- None

4. Remarks

- 4.1** The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.
- 4.2** When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.
- 4.3** When measurement results are close to limit value of specified requirement, manufacturer shall take actions during the production process to keep the limit, especially if the result of a measurement is in a bandwidth within $\pm 10\%$ to the limit value.
- 4.4** All applicable hazards from UK legislation: Electrical Equipment (Safety) Regulations 2016 are covered by harmonized standard which listed in test specification of cover page.
- 4.5** This report is based on previous report: 68.140.18.0809.04 (dated 2022-04-01) to apply UKCA marking with below modification:

Add below components:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Supply cord and input cord of LED driver and input/output cord of SPD	Dongguan Wandu Cable Co., Ltd.	H05RN-F H07RN-F	3×1,0mm ²	EN 50525-2-21	VDE 40052148*
Alt.	Zhejiang Jinniu Cable Co., Ltd	H05RN-F	3×1,0mm ²	EN 50525-2-21	VDE 40028195*
Alt.	Zhongshancity Defang Wire & Cable Co., Ltd.	H05RN-F H07RN-F	3×1,0mm ²	EN 50525-2-21	VDE 40049745*
Internal wire for LED module and earthing wire	DONGGUAN ZHIHE ELECTRICAL CABLE TECH CO LTD	1332	200°C; 300VAC; 18AWG	UL 758 + IEC/EN 60598-2-3 IEC/EN 60598-1	UL E258239*+ Tested with appliance#

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Alt.	APPLIANCE WIRING MATERIAL	1015	105°C; 600VAC; 18AWG	UL 758 + IEC/EN 60598- 2-3 IEC/EN 60598- 1	UL E328945*+ Tested with appliance#
Alt.	SHENZHEN MYSUN INSULATION MATERIALS CO LTD	1332	200°C; 300VAC; Min. 20AWG	UL 758 + IEC/EN 60598- 2-5 IEC/EN 60598- 1	UL E239689*+ Tested with appliance#

5. Documentation

File	File name	Date
Photo documentation:	6814022036201 DOC_ N8AUK	2022-07-08
User manual:	6814022036201 MAN_ N8AUK	2022-07-08
Installation manual:	6814022036201 MAN_ N8AUK	2022-07-08

6. Summary

The test specifications are met

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

Tested by:



Approved by:

Kevin Liu, Designated Reviewer

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Appendix No.1

Model no.	Rated Voltage (VAC)	Rated Power (W)	ta (°C)
AOK-20WiP-NV-L3-00-XX70-BN-P-I	100-240	20	50
AOK-25WiP-NV-L3-00-XX70-BN-P-I	100-240	25	50
AOK-30WiP-NV-L3-00-XX70-BN-P-I	100-240	30	50
AOK-40WiP-NV-L3-00-XX70-BN-P-I	100-240	40	50
AOK-50WiP-NV-L3-00-XX70-BN-P-I	100-240	50	50
AOK-60WiP-NV-L3-00-XX70-BN-P-I	100-240	60	50
	220-240	60	50
AOK-75WiP-NV-L3-00-XX70-BN-P-I	100-240	75	50
	220-240	75	50
AOK-120WiP-NV-L3-00-XX70-BN-P-I	100-240	120	40
	220-240	120	50
AOK-20WiP-NV-L3-00-XX80-BN-P-I	100-240	20	50
AOK-25WiP-NV-L3-00-XX80-BN-P-I	100-240	25	50
AOK-30WiP-NV-L3-00-XX80-BN-P-I	100-240	30	50
AOK-40WiP-NV-L3-00-XX80-BN-P-I	100-240	40	50
AOK-50WiP-NV-L3-00-XX80-BN-P-I	100-240	50	50
AOK-60WiP-NV-L3-00-XX80-BN-P-I	100-240	60	50
	220-240	60	50
AOK-75WiP-NV-L3-00-XX80-BN-P-I	100-240	75	50
	220-240	75	50
AOK-120WiP-NV-L3-00-XX80-BN-P-I	100-240	120	40
	220-240	120	50
AOK-25WiPS-NVM-L3-00-XX70-BN-P	220-240	25	50
AOK-25WiPS-NVM-L3-00-XX80-BN-P	220-240	25	50
AOK-50WiPS-NVM-L3-00-XX70-BN-P	220-240	50	50
AOK-50WiPS-NVM-L3-00-XX80-BN-P	220-240	50	50
AOK-60WiPS-NVM-L3-00-XX70-BN-P	220-240	60	50
AOK-60WiPS-NVM-L3-00-XX80-BN-P	220-240	60	50
AOK-20WiPS-NVS-L3-00-XX70-BN-P	100-240	20	50
AOK-20WiPS-NVS-L3-00-XX80-BN-P	100-240	20	50
AOK-25WiPS-NVS-L3-00-XX70-BN-P	100-240	25	50
AOK-25WiPS-NVS-L3-00-XX80-BN-P	100-240	25	50
AOK-50WiPS-NVS-L3-00-XX70-BN-P	100-240	50	50
AOK-50WiPS-NVS-L3-00-XX80-BN-P	100-240	50	50
AOK-60WiPS-NVS-L3-00-XX70-BN-P	100-240	60	50
AOK-60WiPS-NVS-L3-00-XX80-BN-P	100-240	60	50