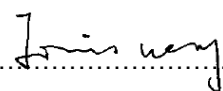


| TEST REPORT                                                          |                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Reference No.</b>                                          | : 4903216.56                                                                                                                                                                                                                              |
| Tested by (name + signature)                                         | : Speed Sun<br>                                                                                                                                        |
| Approved by (name + signature)                                       | : Jimmy Wang<br>                                                                                                                                       |
| Date of issue                                                        | : 2023-05-15                                                                                                                                                                                                                              |
| Total number of pages                                                | : 7 pages                                                                                                                                                                                                                                 |
| <b>Testing Laboratory</b>                                            | : DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch                                                                                                                                                                        |
| Testing location / address                                           | : Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China                                                                                                                                                                |
| <b>Applicant</b>                                                     | : AOK Industrial Company Limited                                                                                                                                                                                                          |
| Address                                                              | : East Suite (2/F, Plant 4, St George's Science and Technology Industrial Park) 3/F, Building 1, St George's Science and Technology Industrial Park North Side of Xinyu Road, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China |
| <b>Test specification:</b>                                           | :                                                                                                                                                                                                                                         |
| Standard(s)                                                          | : ISO 4892-3:2016 Plastics- methods of exposure to laboratory light sources –Part 3 Fluorescent UV lamps                                                                                                                                  |
| Test procedure                                                       | : Partial test                                                                                                                                                                                                                            |
| <b>Test object description</b>                                       | : LED Streetlight                                                                                                                                                                                                                         |
| Trade Mark                                                           | :                                                                                                                                                      |
| Manufacturer                                                         | : Same as applicant                                                                                                                                                                                                                       |
| Factory                                                              | : Same as applicant                                                                                                                                                                                                                       |
| Model/Type reference                                                 | : Refer to Attachment 1 for details                                                                                                                                                                                                       |
| Ratings                                                              | : 220-240 VAC, 50/60 Hz, Class I, IP66, ta: 55 °C;<br>non-user replaceable LEDs;<br>Other information refers to Attachment 1 for details                                                                                                  |
| <b>Samples received in DEKRA Laboratory on</b>                       | : 2023-05-03                                                                                                                                                                                                                              |
| <b>Amount of samples received</b>                                    | : 2 pcs                                                                                                                                                                                                                                   |
| <b>Test Date</b>                                                     | : 2023-05-03 to 2023-05-10                                                                                                                                                                                                                |
| <b>Possible test case verdicts:</b>                                  |                                                                                                                                                                                                                                           |
| - 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 : <b><u>P(Pass)</u></b>      |                                                                                                                                                                                                                                           |
| - test object does not meet the requirement : F(Fail)                |                                                                                                                                                                                                                                           |
| <b>Test program</b>                                                  | : 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.

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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 Class I LED streetlights equipped with non-user replaceable LEDs.

AOK-75WiLA-NV-S5-PH-4070-T2-P and AOK-230WiL02-NV-S3-PH-4070-T2-P were subjected to UV test according to ISO 4892-3:2016 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.   | UV test  | √    |      |        |     |     |

**Technical Requirement:****1. REFERENCE DOCUMENT AND ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHODS**

The test referred to ISO 4892-3:2016 Plastics- methods of exposure to laboratory light sources –Part 3 Fluorescent UV lamps.

**2. CRITERION FOR RESULT**

Appearance: Without blistering and deformation.

After the test, the grey scale level of the sample shall be  $\geq 4$ .

Certificated Proves that all synthetic material used in the Luminaire in UV stable proceed with 144 hours.

**3. TEST CONDITION**

Perform partial test (see Table 1-1) as per applicant's requirement and according to ISO 4892-3:2016.

| Table 1-1 Test condition |           |                                                  |                         |
|--------------------------|-----------|--------------------------------------------------|-------------------------|
| Test time:               | 144hours  |                                                  |                         |
| Exposure period          | Lamp type | Irradiance                                       | Black-panel temperature |
| 5h dry                   | UVA-340   | 0.83W•m <sup>-2</sup> •nm <sup>-1</sup> at 340nm | (50±3) °C               |
| 1h water spray           |           | UV lamps off                                     | Not controlled          |

**4. LABORATORY AMBIENCE CONDITION**

Temperature: 19.2 °C - 22.3 °C

Relative humidity: 37.2%RH - 47.2%RH

**5. TEST RESULT**

| Test model                      | Test Result                                                                                                                                                                                                                             | Conclusion |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| AOK-75WiLA-NV-S5-PH-4070-T2-P   | Grayscale contrast OK, the data is detailed in the table below.                                                                                                                                                                         | Pass       |
| AOK-230WiL02-NV-S3-PH-4070-T2-P | Grayscale contrast OK, the data is detailed in the table below.                                                                                                                                                                         | Pass       |
| Criterion for result            | Appearance: Without blistering and deformation.<br>After the test, the grey scale level of the sample shall be $\geq 4$ .<br>Certificated Proves that all synthetic material used in the Luminaire in UV stable proceed with 144 hours. |            |

| Model                           | Test sheet No. | Grey scale level | Conclusion |
|---------------------------------|----------------|------------------|------------|
| AOK-75WiLA-NV-S5-PH-4070-T2-P   | 1              | 4-5              | Pass       |
|                                 | 2              | 5                | Pass       |
|                                 | 3              | 5                | Pass       |
|                                 | 4              | 5                | Pass       |
|                                 | 5              | 5                | Pass       |
|                                 | 6              | 4-5              | Pass       |
|                                 | 7              | 4-5              | Pass       |
|                                 | 8              | 4-5              | Pass       |
|                                 | 9              | 5                | Pass       |
| AOK-230WiL02-NV-S3-PH-4070-T2-P | 1              | 4-5              | Pass       |
|                                 | 2              | 5                | Pass       |
|                                 | 3              | 5                | Pass       |
|                                 | 4              | 5                | Pass       |
|                                 | 5              | 5                | Pass       |
|                                 | 6              | 5                | Pass       |
|                                 | 7              | 5                | Pass       |
|                                 | 8              | 5                | Pass       |
|                                 | 9              | 5                | Pass       |

**PHOTOS OF SAMPLES AND TEST:**



AOK-75WILa-NV-S5-PH-4070-T2-P

Beore test



AOK-230WIL02-NV-S3-PH-4070-T2-P

Beore test



Test Setup

**PHOTOS OF SAMPLES AND TEST:**

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |
| <p>AOK-75WiLA-NV-S5-PH-4070-T2-P</p>                                              | <p>AOK-230WiL02-NV-S3-PH-4070-T2-P</p>                                             |
| <p>After test</p>                                                                 |                                                                                    |

**Attachment 1: Detailed Model List**

| No.  | Model                           | Power (W) | Dimension (mm) | Remark              |
|------|---------------------------------|-----------|----------------|---------------------|
| 1-1  | AOK-20WiLA-NV-XX-XX-XXYY-BN-P   | 20        | 537*210*88     | Length*Width*Height |
| 1-2  | AOK-30WiLA-NV-XX-XX-XXYY-BN-P   | 30        | 537*210*88     | Length*Width*Height |
| 1-3  | AOK-40WiLA-NV-XX-XX-XXYY-BN-P   | 40        | 537*210*88     | Length*Width*Height |
| 1-4  | AOK-50WiLA-NV-XX-XX-XXYY-BN-P   | 50        | 537*210*88     | Length*Width*Height |
| 1-5  | AOK-60WiLA-NV-XX-XX-XXYY-BN-P   | 60        | 537*210*88     | Length*Width*Height |
| 1-6  | AOK-70WiLA-NV-XX-XX-XXYY-BN-P   | 70        | 537*210*88     | Length*Width*Height |
| 1-7  | AOK-75WiLA-NV-XX-XX-XXYY-BN-P   | 75        | 537*210*88     | Length*Width*Height |
| 1-8  | AOK-80WiLA-NV-XX-XX-XXYY-BN-P   | 80        | 567*228*88     | Length*Width*Height |
| 1-9  | AOK-90WiLA-NV-XX-XX-XXYY-BN-P   | 90        | 567*228*88     | Length*Width*Height |
| 1-10 | AOK-100WiLA-NV-XX-XX-XXYY-BN-P  | 100       | 567*228*88     | Length*Width*Height |
| 2-1  | AOK-20WiL02-NV-XX-XX-XXYY-BN-P  | 20        | 492*179*119    | Length*Width*Height |
| 2-2  | AOK-30WiL02-NV-XX-XX-XXYY-BN-P  | 30        | 492*179*119    | Length*Width*Height |
| 2-3  | AOK-40WiL02-NV-XX-XX-XXYY-BN-P  | 40        | 492*179*119    | Length*Width*Height |
| 2-4  | AOK-50WiL02-NV-XX-XX-XXYY-BN-P  | 50        | 492*179*119    | Length*Width*Height |
| 2-5  | AOK-60WiL02-NV-XX-XX-XXYY-BN-P  | 60        | 492*179*119    | Length*Width*Height |
| 2-6  | AOK-80WiL02-NV-XX-XX-XXYY-BN-P  | 80        | 646*240*137    | Length*Width*Height |
| 2-7  | AOK-90WiL02-NV-XX-XX-XXYY-BN-P  | 90        | 646*240*137    | Length*Width*Height |
| 2-8  | AOK-100WiL02-NV-XX-XX-XXYY-BN-P | 100       | 646*240*137    | Length*Width*Height |
| 2-9  | AOK-120WiL02-NV-XX-XX-XXYY-BN-P | 120       | 646*240*137    | Length*Width*Height |
| 2-10 | AOK-130WiL02-NV-XX-XX-XXYY-BN-P | 130       | 676*290*137    | Length*Width*Height |
| 2-11 | AOK-140WiL02-NV-XX-XX-XXYY-BN-P | 140       | 676*290*137    | Length*Width*Height |
| 2-12 | AOK-150WiL02-NV-XX-XX-XXYY-BN-P | 150       | 676*290*137    | Length*Width*Height |
| 2-13 | AOK-160WiL02-NV-XX-XX-XXYY-BN-P | 160       | 676*290*137    | Length*Width*Height |
| 2-14 | AOK-180WiL02-NV-XX-XX-XXYY-BN-P | 180       | 676*290*137    | Length*Width*Height |
| 2-15 | AOK-200WiL02-NV-XX-XX-XXYY-BN-P | 200       | 756*308*138    | Length*Width*Height |
| 2-16 | AOK-220WiL02-NV-XX-XX-XXYY-BN-P | 220       | 756*308*138    | Length*Width*Height |
| 2-17 | AOK-225WiL02-NV-XX-XX-XXYY-BN-P | 225       | 756*308*138    | Length*Width*Height |
| 2-18 | AOK-230WiL02-NV-XX-XX-XXYY-BN-P | 230       | 756*308*138    | Length*Width*Height |
| 2-19 | AOK-240WiL02-NV-XX-XX-XXYY-BN-P | 240       | 756*308*138    | Length*Width*Height |
| 2-20 | AOK-250WiL02-NV-XX-XX-XXYY-BN-P | 250       | 756*308*138    | Length*Width*Height |
| 2-21 | AOK-275WiL02-NV-XX-XX-XXYY-BN-P | 275       | 756*308*138    | Length*Width*Height |
| 2-22 | AOK-300WiL02-NV-XX-XX-XXYY-BN-P | 300       | 756*308*138    | Length*Width*Height |

**Description:**

The first "XX" can be any letters to denote manufacturer of LED; and can be replaced by S5 to represent Seoul 5050 LED, or S35 to represent Seoul 3535 LED;

The second "XX" denotes dimming control; which can be as followings: 00=No sensor provided, PH=Plug-In photocontrol or NEMA Short-circuit cap provided, DV=dimming function;

The third "XX" can be 27, 30, 40, 50, 57 or 65 to denote colour temperature of LEDs, e.g. 27=2700K, 30=3000K, 40=4000K, 50=5000K, 57=5700K, 65=6500K;

"YY" can be 70, 80 or 90 to denote colour rendering index of LEDs, e.g. 70: CRI: 70, 80: CRI: 80, 90: CRI: 90;

"BN" can be any letter or number to denote beam angles

---End---