



# LM-82-12 TEST REPORT

Applied for SASO-2927

<b>Kunde:</b> <i>Client:</i>	AOK Industrial Company Limited
<b>Adresse:</b> <i>Address:</i>	Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong, P.R. China
<b>Hersteller:</b> <i>Manufacturer:</i>	AOK Industrial Company Limited
<b>Adresse:</b> <i>Address:</i>	Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong, P.R. China
<b>Name der Marke:</b> <i>Brand Name:</i>	<b>AOK</b>
<b>Beschreibung des Produkts:</b> <i>Product Description:</i>	LED STREET LIGHT
<b>Modelle:</b> <i>Models:</i>	AOK-200WiL02-NV-L3-00-40
<b>Bewertung:</b> <i>Rating:</i>	AC120-277V, 50/60Hz, 200W, 2200mA
<b>Verfahren:</b> <i>Method:</i>	LM-82-12: Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature SASO 2927: 2019:Energy efficiency functionality and labelling requirements for lighting products – Part 3: Street lighting
<b>Prüfergebnis*:</b> <i>Test result*:</i>	/

<b>Datum der Prüfung:</b> <i>Date of Test:</i>	<b>Datum der Emission:</b> <i>Date of Issue:</i>	<b>Klassifizierung:</b> <i>Classification:</i>	<b>Gegenstand der Prüfung:</b> <i>Test item:</i>
2021-06-16--2021-06-21	2021-09-03	Commission Test	LM-82-12

**Prüflabor (Testlabor) / Testing Laboratory:**  
Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

<b>Test von/Prepare by:</b> <i>Seth Cai</i> Seth Cai/ Project Engineer	<b>Check von/Check by:</b> <i>Ian Luo</i> Ian Luo/ Director	<b>Genehmigt von/Approved by:</b> <i>Jesse Liu</i> Jesse Liu/ Manager
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Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

Remark: The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of examination of the product sample submitted by the appliance. A general statement concerning the quality of the products from the series manufacturer cannot be derived therefore.



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## 1. Test Method

Ambient Condition.....: 25.1°C

Number of hours operated prior to

Measurement .....(h): 0h

Stabilization

time .....(h): 1h/time

Orientation(burning position) of SSL product

during test.....: Down

Test Item.....: Room Temperature Initial Measurement  $T_b = T_{b,0}$

Test Method .....: The sample was tested according to the IES LM-79-2008.

Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at  $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Item.....: Measurement at First Elevated Temperature

$T_{b,1} = T_{b,0} + 25^{\circ}\text{C}$

Test Method.....: The sample was tested with a device that controls the temperature  $T_b$  of the UUT, so that  $T_b$  reaches no lower than  $T_b = T_{b,0} + 25^{\circ}\text{C}$ . Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at  $50^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Item.....: Measurement at Second Elevated Temperature  $T_{b,2} = ^{\circ}\text{C}$

Test Method.....: The sample was tested with a device that controls the temperature  $T_b$  of the UUT, so that  $T_b$  reaches no lower than  $T_{b,0} = 76.9^{\circ}\text{C}$ . Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at  $40^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.



## 2. Product Information

Product description.....:	LED STREET LIGHT
Model Number.....:	AOK-200WiL02-NV-L3-00-40
Rated Inputs.....:	AC120-277V, 50/60Hz
Rated Power.....:	200W
Declared CCT.....:	4000K
LED Manufacturer.....:	LUMILEDS LLC.
LED Model.....:	L130-4080003000X21
Date of Receipt Samples.....:	June 16, 2021
Quantity of Receipt Samples.....:	1 unit

## 3. Test equipment list

Description	Equipment ID	Model	Calibration Date	Calibration Due Date
Integrating Sphere	SLCS-S-038	SPR-3000	2020/07/01	2021/07/01
Digital Power Meter	SLCS-S-058	WT310	2020/06/24	2021/06/23
AC Testing Power Source	SLCS-S-111	APW-105N	2020/06/24	2021/06/23
Standard Lamp	SLCS-S-118	S11010017	2020/07/02	2021/07/01

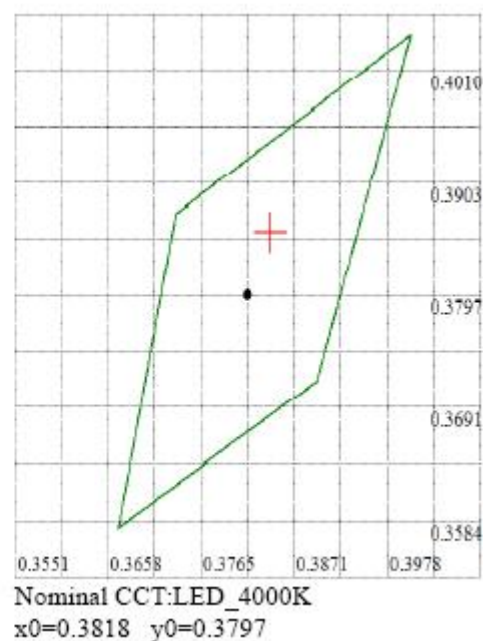
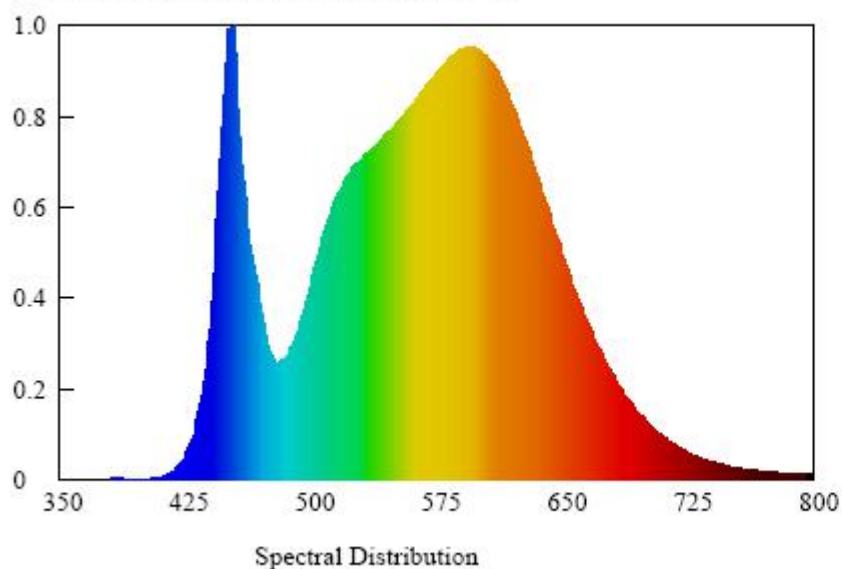


#### 4. Test results

	Room Temperature Initial Measurement Tb,0	First Elevated Temperature Tb,1 =Tb,0 + 25°C	Second Elevated Temperature Tb,2 =85.5°C
Ambient (°C)	25	50	40
Measured Temperature of Tb (°C)	72.8	97.8	85.5
Input Power (W)	200.31	200.13	200.40
Input Voltage (V)	119.97	120.00	120.02
Input Current (A)	1.6800	1.6694	1.6714
Luminous Flux (lm)	29337.49	29287.52	29378.06
Luminous Efficacy (lm/W)	146.5	146.3	146.6
CIE Chromaticity (u')	0.2242	0.2236	0.2244
CIE Chromaticity (v')	0.5061	0.5058	0.5065
Correlated Color Temperature (CCT)	3960	3981	3972

#### 5. Spectrum

##### Spectroradiometric Parameters





## 6. Photo of sample

Photo document



**Revision History**

Revision	Issue Date	Revision Content	Revised By
V1.1	2021/09/03	Modify the Client 、 Manufacturer 、 Model and Trademark	Seth Cai

**Remark:** This report is based on the report No. LCS200722085BS. This report is invalid without the original report.

----- End of test report-----