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Report No.: LCS200301033BS

TEST REPORT

Of IES LM-82-12

Kunde: Client:	AOK INDUSTRIAL COMPANY LIMITED
Adresse: Address:	1# Building, Sans Souci Technology Industrial Park, Shajin street, Shenzhen city, Guangdong Provice, China.
Hersteller: Manufacturer:	AOK INDUSTRIAL COMPANY LIMITED
Adresse: Address:	1# Building, Sans Souci Technology Industrial Park, Shajin street, Shenzhen city, Guangdong Provice, China.
Name der Marke: Brand Name:	AOK
Beschreibungdes Produkts: Product Description:	LED Flood Light (Sport Light)
Modelle: Models:	AOK-580WiNS-NV-L5-00-4080-60-B
Bewertung: Rating:	100-277Vac, 50/60Hz, 580W, 4000K
Verfahren: Method:	IES 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
Prüfergebnis*: Test result*:	N/A
D. (D. ii.	

Datum der Prüfung:Date of Test:

2020-12-30 - 2021-01-05

Datum der Emission:

Date of Issue:

2021-01-06

Klassifizierung: Classification:

Gegenstand der Prüfung: *Test item:*

Commission Test

IES LM-82-12

Prüflabor (Testlabor) / Testing Laboratory:

Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Test von/Test by:

Check von/Check by:

Genehmigt von/Approved by:

William Lian

William Lian/ Project Engineer

Ian Luo/ Director

Jesse Liu/ Manager

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.

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1. Test Method

Ambient Condition	25.1℃
Measurement(h):	Oh
Stabilization time(h):	1h/time
Orientation(burning position) of SSL product	#
during test:	Down
Test Item:	Room Temperature Initial Measurement Tb =Tb,0 (25.1°C)
Test Method:	The sample was tested according to the IES LM-79-2008.
	Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C $\pm 1^{\circ}$ 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 Tb,2 =37.6°C
Test Method:	The sample was tested with a device that controls the temperature Tb of the UUT, so that Tb reaches no lower than Tb,0 = 76.9° C. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 40° C \pm 1° 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 Tb,1 =Tb,0 + 25°C (50.1°C)
Test Method:	The sample was tested with a device that controls the temperature Tb of the UUT, so that Tb reaches no lower than Tb = Tb,0 + 25° C. Photometric paramters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 60° C \pm 1° 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.



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2. Product Information

Product description...... LED Flood Light (Sport Light)

Model Number...... AOK-580WiNS-NV-L5-00-4080-60-B

Rated Inputs...... 100-277Vac,50/60Hz

Rated Power...... 580W

Declared CCT...... 4000K

LED Manufacturer...... LUMILEDS

LED Model...... L150-4080502400000

Forward current of the LED chip........... 200mA

LED Driver...... INVENTRONICS (EUD-600S740DV)

LED Driver Set Current...... 5.6A

SPD...... SHENZHEN ZHONGYUAN TECHNOLOGY (ZYS-S20WLED)

LED package current...... 48mA

Date of Receipt Samples...... December 29, 2020

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



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4. Test Results

4.1 Room Temperature Initial Measurement Tb =Tb,0 (25.1°C) :Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	220.04	60.0	2.6834	0.9970	588.68

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	ССТ(К)	Color Rendering Index (Ra)
Output	103743.08	176.23	3980	82.6

4.2 Measurement at First Elevated Temperature Tb,2 =37.6°C: Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	220.06	60.0	2.6779	0.9965	587.23

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	ССТ(К)	Color Rendering Index (Ra)
Output	102741.76	174.96	3990	82.7

4.3 Measurement at Second Elevated Temperature Tb,1 =Tb,0 + 25°C (50.1°C):Test Data

Test type	Voltage (V AC)	Frequency (Hz)	Current (A)	Power Factor	Power (W)
Input	220.09	60.0	2.6763	0.9958	586.55

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	сст(к)	Color Rendering Index (Ra)
Output	101091.89	172.35	4006	82.9



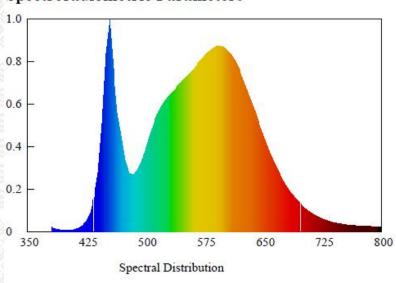


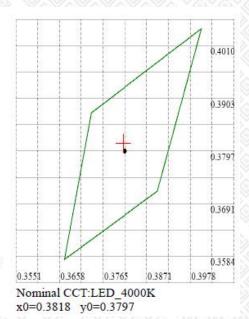


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4.4 Spectrum

Spectroradiometric Parameters





4.5 Result Summary

	Initial Temperaturel (Ta@Tb,0=25°C)	First Elevated Temperature (Ta =37.6°C)	Second Elevated Temperature (Ta =50°C)
Measured Temperature of Tb (°C)	25.1	50.0	85.6
Measured Temperature of Td (°C)	53.4	62.5	82.6
Input Power (W)	588.68	587.23	586.55
Input Voltage (V)	220.04	220.06	220.09
Input Current (A)	2.6834	2.6779	2.6763
Luminous Flux (Im)	103743.08	102741.76	101091.89
Luminous Efficacy (Im/W)	176.23	174.96	172.35
CIE Chromaticity (u')	0.2241	0.2241	0.2240
CIE Chromaticity (v')	0.5050	0.5044	0.5037
Correlated Color Temperature (CCT)	3980	4006	4006



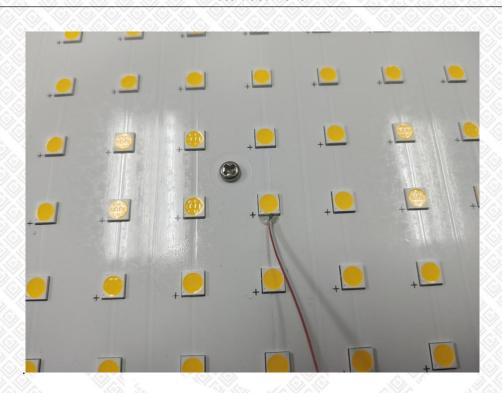


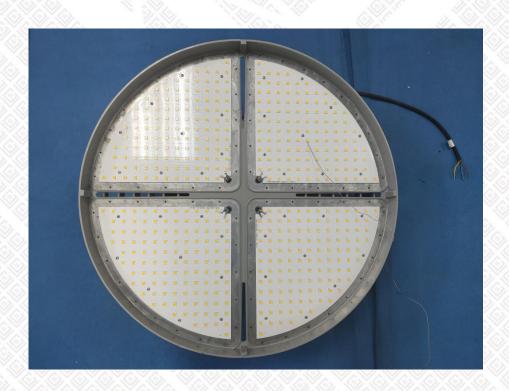
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5. UUT temperature monitoring point, Tb

Photo document



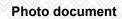




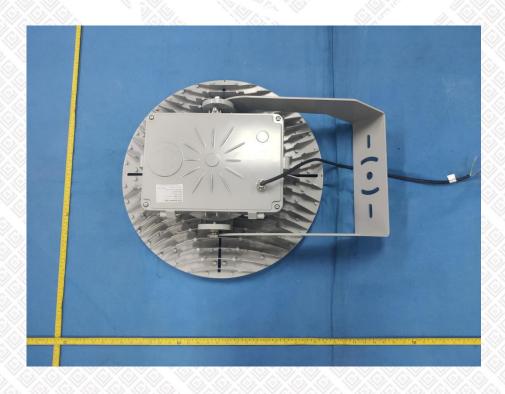


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6. Photo of sample









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