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-720WiNS-NV-L5-00-4080-60-B
Bewertung: *Rating:*	100-277Vac, 50/60Hz, 720W, 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

Datum der Prüfung: *Date of Test:*	**Datum der Emission:** *Date of Issue:*	**Klassifizierung:** *Classification:*	**Gegenstand der Prüfung:** *Test item:*
2020-12-30 - 2021-01-05	2021-01-06	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	Ian Luo	Jesse
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.
Remark: The duplication of this report or parts of it and its use for advertising purposesis only allowed with permission of the testing laboratory.This report contains the result ofexamination of the product sample submitted by the appliance. A general statement concerningthe quality of the products from the series manufacturer cannot be derived therefore.

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1. Test Method

Ambient Condition.....:	25.1℃
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 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 25º C ±1ºC. 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 40º C ± 1º 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 60º C ± 1º 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 Flood Light (Sport Light)
Model Number.....:	AOK-720WiNS-NV-L5-00-4080-60-B
Rated Inputs.....:	100-277Vac,50/60Hz
Rated Power.....:	720W
Declared CCT.....:	4000K
LED Manufacturer.....:	LUMILEDS
LED Model.....:	L150-4080502400000
Forward current of the LED chip.....:	200mA
LED Driver.....:	INVENTRONICS（EUD-600S560DV & EUK-200S560DV）
LED Driver Set Current.....:	3.7A
SPD.....:	SHENZHEN ZHONGYUAN TECHNOLOGY (ZYS-S20WLED)
Number of LEDs.....:	472 LEDs
LED package current.....:	63mA
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

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	220.08	60.0	3.3167	0.9940	725.55

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	128661.78	177.33	4009	83.0

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	220.03	60.0	3.3128	0.9930	723.82

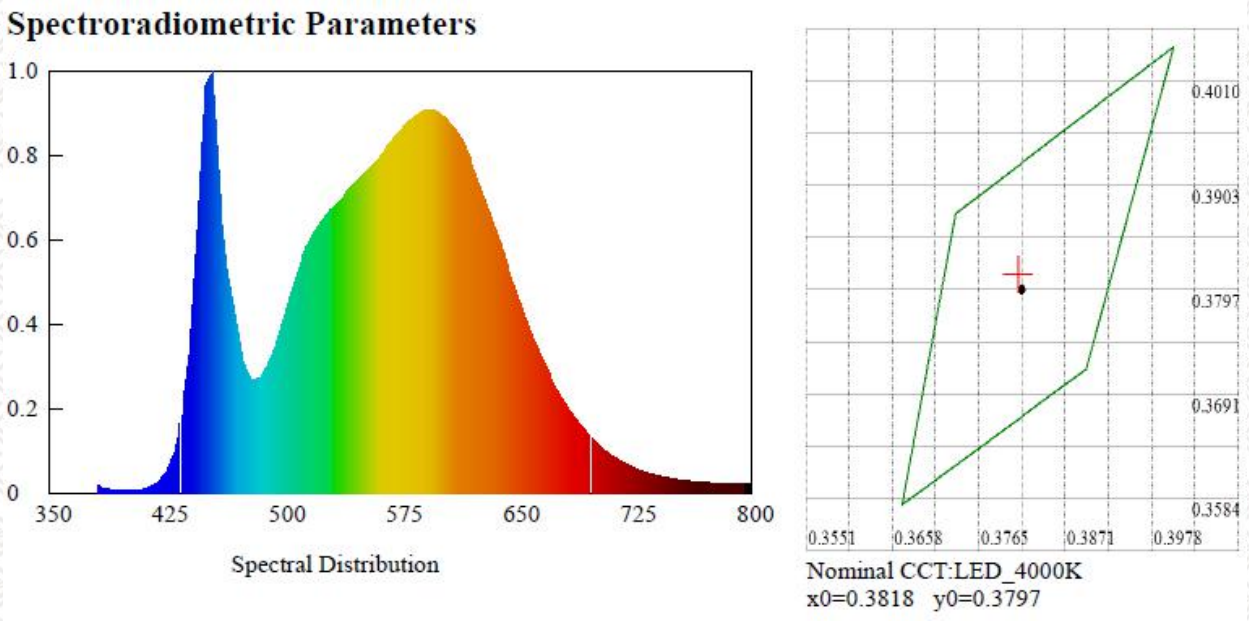
Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	127211.37	175.75	4039	83.1

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	220.05	60.0	3.3088	0.9925	722.65

Test type	Luminous Flux (lm)	Luminous efficacy(lm/w)	CCT(K)	Color Rendering Index (Ra)
Output	126232.50	174.68	4056	83.2

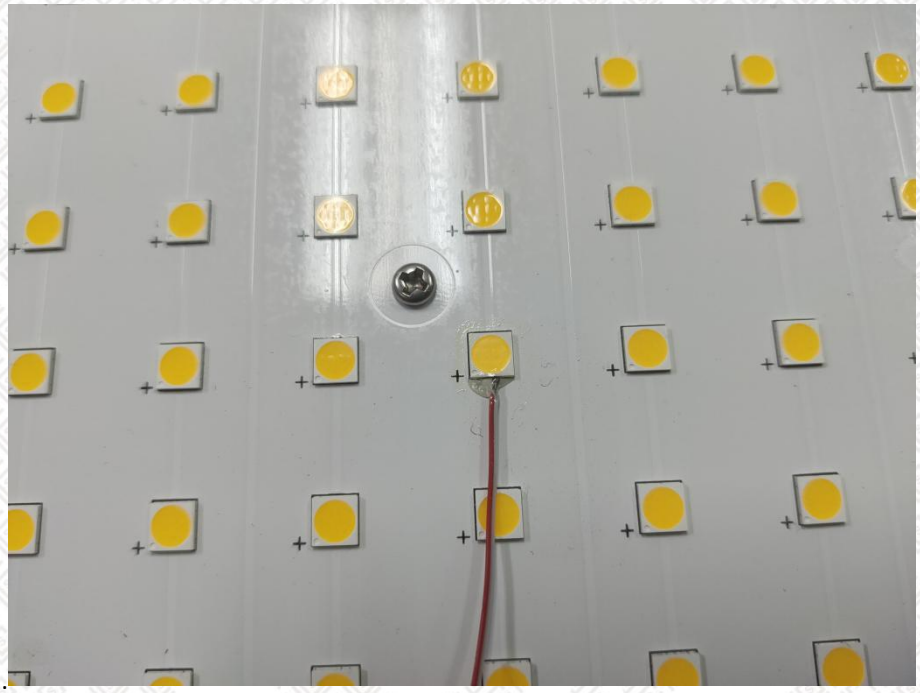
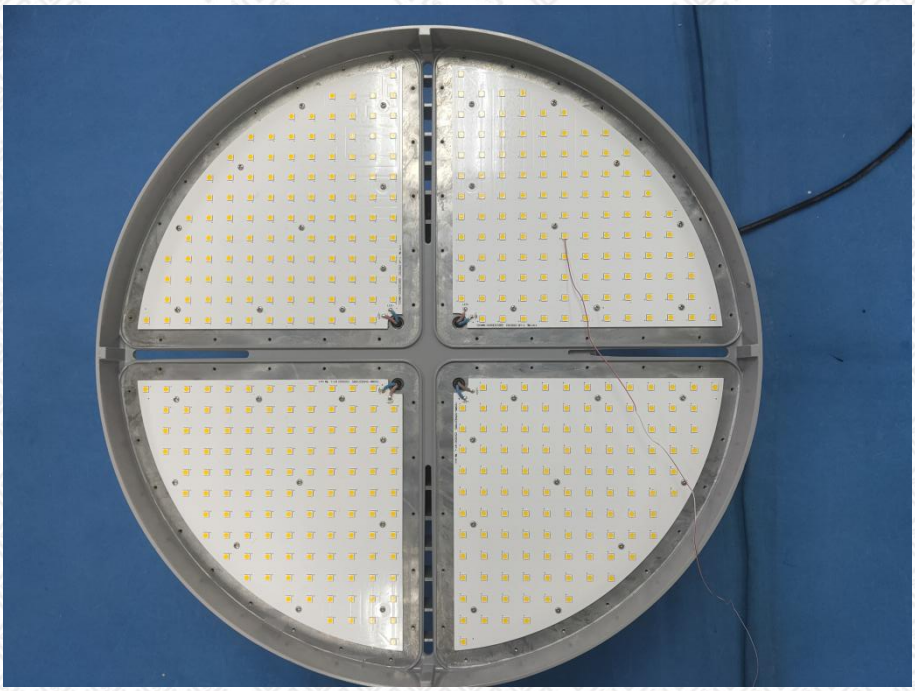
4.4 Spectrum



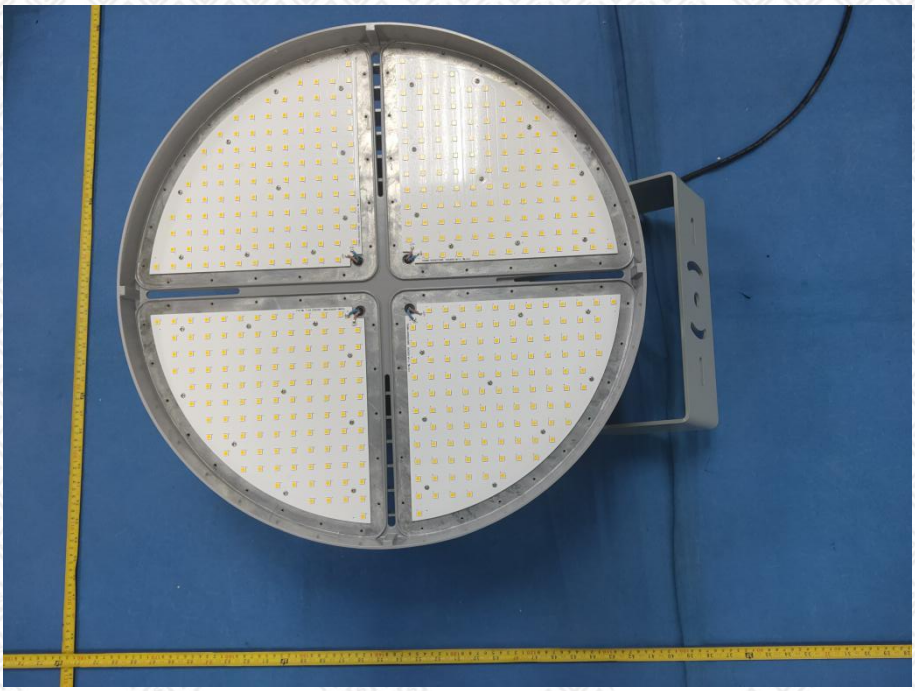
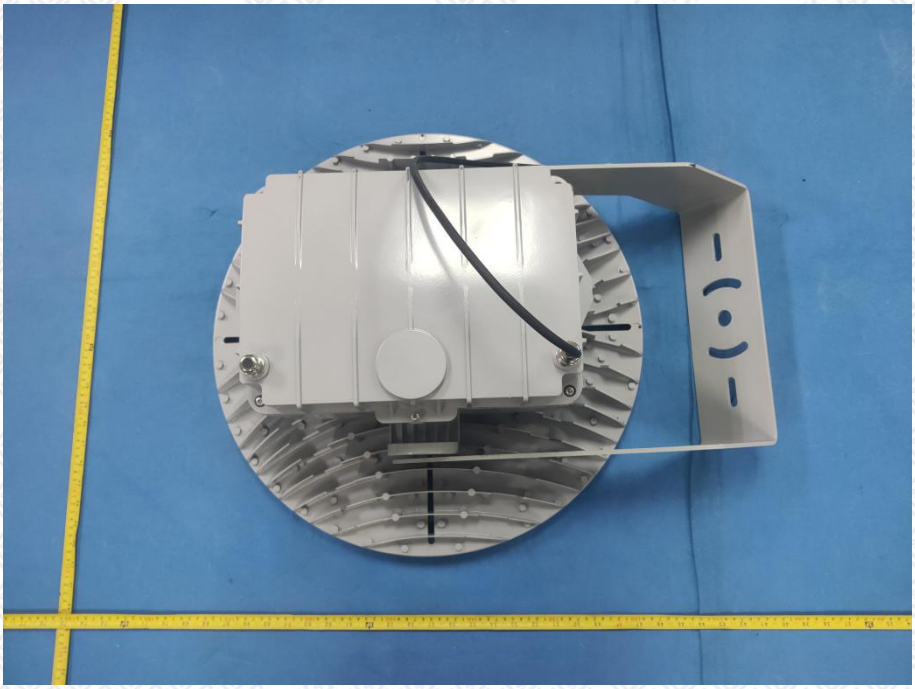
4.5 Result Summary

	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**	**85.8**
Measured Temperature of Td (°C)	**53.1**	**62.1**	**79.7**
Input Power (W)	**725.55**	**723.82**	**722.65**
Input Voltage (V)	**220.08**	**220.03**	**220.05**
Input Current (A)	**3.3167**	**3.3128**	**3.3088**
Luminous Flux (lm)	**128661.78**	**127211.37**	**126232.50**
Luminous Efficacy (lm/W)	**177.33**	**175.75**	**174.68**
CIE Chromaticity (u')	**0.2239**	**0.2237**	**0.2235**
CIE Chromaticity (v')	**0.5037**	**0.5025**	**0.5019**
Correlated Color Temperature (CCT)	**4009**	**4039**	**4056**

5. UUT temperature monitoring point, Tb

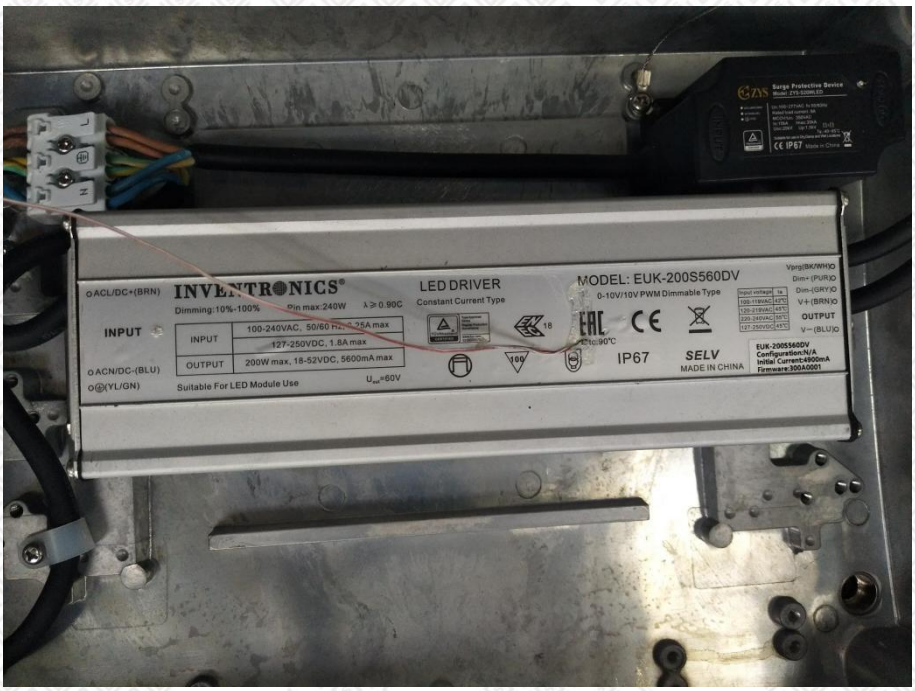
Photo document



6. Photo of sample

Photo document




ZYS
Surge Protective Device
Model:ZYS-S20WLED
ACL(BROWN)
ACN(BLUE)
Un:100~277VAC fn:50/60Hz
Rated load current:8A
MCOV/Uc: 350VAC
In:10kA Imax:20kA
Uoc:20kV Up:1.5kV
Ta:-40~85℃
Suitable for use in Dry,Damp and Wet Locations
IP67 Made in China
INPUT
OUTPUT


INVENTRONICS
LED DRIVER
MODEL: EUD-600S560DV
0-10V/PWM/Time Dimmable Type
INPUT
100-240VAC,50/60 Hz, 6.0Amax
127-250VDC,4.5Amax
OUTPUT
600Wmax,54-134VDC, 5600mA max
IP67
MADE IN CHINA
OUTPUT



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