



TEST REPORT

Kunde: <i>Client:</i>	AOK Industrial Company Limited
Adresse: <i>Address:</i>	Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong, P.R. China
Hersteller: <i>Manufacturer:</i>	AOK Industrial Company Limited
Adresse: <i>Address:</i>	Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong, P.R. China
Name der Marke: <i>Brand Name:</i>	AOK
Beschreibung des Produkts: <i>Product Description:</i>	LED street light
Modelle: <i>Models:</i>	AOK-200WiL02-NV-L3-00-40
Bewertung: <i>Rating:</i>	120-277V, 50/60Hz, 200W
Verfahren: <i>Method:</i>	According to requirement clause 12.4.1 of AS/NZS 60598.1: 2017+A1:2017; AS/NZS 60598.2.3:2015;(also reference IEC 60598-1)
Prüfergebnis*: <i>Test result*:</i>	Pass

Datum der Prüfung: <i>Date of Test:</i>	Datum der Emission: <i>Date of Issue:</i>	Klassifizierung: <i>Classification:</i>	Gegenstand der Prüfung: <i>Test item:</i>
2021/6/16	2021/9/8	Commission Test	ISTMT+TM21Test

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

Test von/Test by: <i>Bill Bai</i>	Check von/Check by: <i>Torres He</i>	Genehmigt von/Approved by: <i>Jesse Liu</i>
Bill Bai/ Project Engineer	Torres He/ 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 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.



1. GENERAL INFORMATION

1.1 Product Information

Information of product:	
Product description	LED street light
Model Number	AOK-200WiL02-NV-L3-00-40
Rated Inputs	120-277V,50/60Hz
Rated Power	200W
Declared CCT.	4000K
LED Package, Array or Module	48P8S; 384pcs LED chip(s)
Date of Receipt Samples	2021/6/16
Quantity of Receipt Samples	1 unit
Information of LED chip:	
LED Chip Manufacturer	Lumileds
LED type	LUXEON 3030 2D
Model of the LED chip(s)	L130-4080003000W2C
Forward voltage of the LED chip	5.8~6.6V
Forward current of the LED chip	100mA
ISTMT temperature of the LED chip	85°C
IES LM-80 Test Report	Report Number: S211e Issue Date: 2017-10-17 Tested and Prepared By: Lumileds LLC.

**General remarks:**

“(See attachment#)” refers to additional information appended to the report.

“(See remark#)” refers to a remark appended to the report.

“(See appended table)” refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

Remark: Measurement was conducted at a stable ambient temperature ($50^{\circ}\text{C} \pm 1^{\circ}\text{C}$).

ISTMT was test conducted on the product with the lowest CCT.4000K and the max. power 200W.

Detail information for models covered in this report as below.

Model list:

Model No.	Rating	CCT
AOK-200WiL02-NV-L3-0 0-40	120-277V, 50/60Hz, 200W	4000K

LED specification:

Model/Series	Manufacturer	V_F (V)	I_F (mA)
L130-4080003000W2C	Lumileds	5.8~6.6V	100mA



1.2 Reference Standards or Methods

According to requirement clause 12.4.1 of AS/NZS 60598.1: 2017+A1:2017;

AS/NZS 60598.2.3:2015;(also reference IEC 60598-1)

IES LM-84-14: Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires---Annex A: measurement of in-situ conditions LED case temperature.

1.3 Equipment list

Item	Equipment No.	Equipment	Manufacturer/Type/Series No	Cal.Date	Due Date
1	SLCS-S-004	Digital Power Meter	YOKOGAWA/ WT210 / 91L424211	2021.5.13	2022.5.12
2	SLCS-S-011	J Thermocouple	DE AO/J	2021.5.14	2022.5.13
3	SLCS-S-029	Temperature recorder	AGILENT/ 34970A	2021.5.13	2022.5.12

2. Test Result of ISTMT

2.1 Electrical data

Criteria Item	Result
Input voltage	230V
Input current	0.869A
Total power	196.6W
Power factor	0.98
Current on each LED module	82.71mA
Remark: There are 384pcs LED chip(s) (48P8S) in models AOK-200WiL02-NV-L3-00-40, That we are measurement the total current of driver output was 3970mA, and current on each parallel was 82.71mA(3970mA/48=82.71mA), Because in each series that the forward current on each LED chip(s) was equivalent, so forward current on each LED chip(s) was 82.71mA.	



2.2 Temperature data

Ambient Temperature, °C :	50±1°C	Relative Humidity, % :	65%	
Supply voltage:	230 Vac / 50 Hz	Type of thermocouples:	J	
Test Product Model	AOK-200WiL02-NV-L3-00-40			
Test LED Model	L130-4080003000W2C			
Test LED Driver Model	EUM-200S560MG			
Number of Driver / Product	One Lamp with a power supply			
Test Duration	≥3.5Hours			
Item	Parts	Test Result (°C)	Revise to ta. (°C)	Limit (°C)
1	Measured maximum Temperature @ TEMLED	80.1	79.6	85
2	tc of LED driver	81.6	81.1	90
3	Ambient	50.5	50.0	--

3. Lumen Maintenance Projection (IESNA TM-21-11 Method)

3.1 LM-80 report summary for LED chip(s)

Manufactured by	Lumileds		
LED Model	L130-4080003000W2C		
Number of LED light source tested	25units		
Drive Current	100mA		
Case temperature	85°C	--	--
15000 hours lumen maintenance	96.73%	--	--
15000 hours color maintenance ($\Delta u'v'$)	0.0041	--	--

3.2 Lumen Maintenance Projection for luminaires

Criteria Item	Result
30000h at which to estimate lumen maintenance	93.10%
Drive current on each LED light source	82.71mA
Reported L ₇₀ lumen maintenance life	>90000



4. Photos

4.1 Thermocouple contact photo of @TEM_{LED}

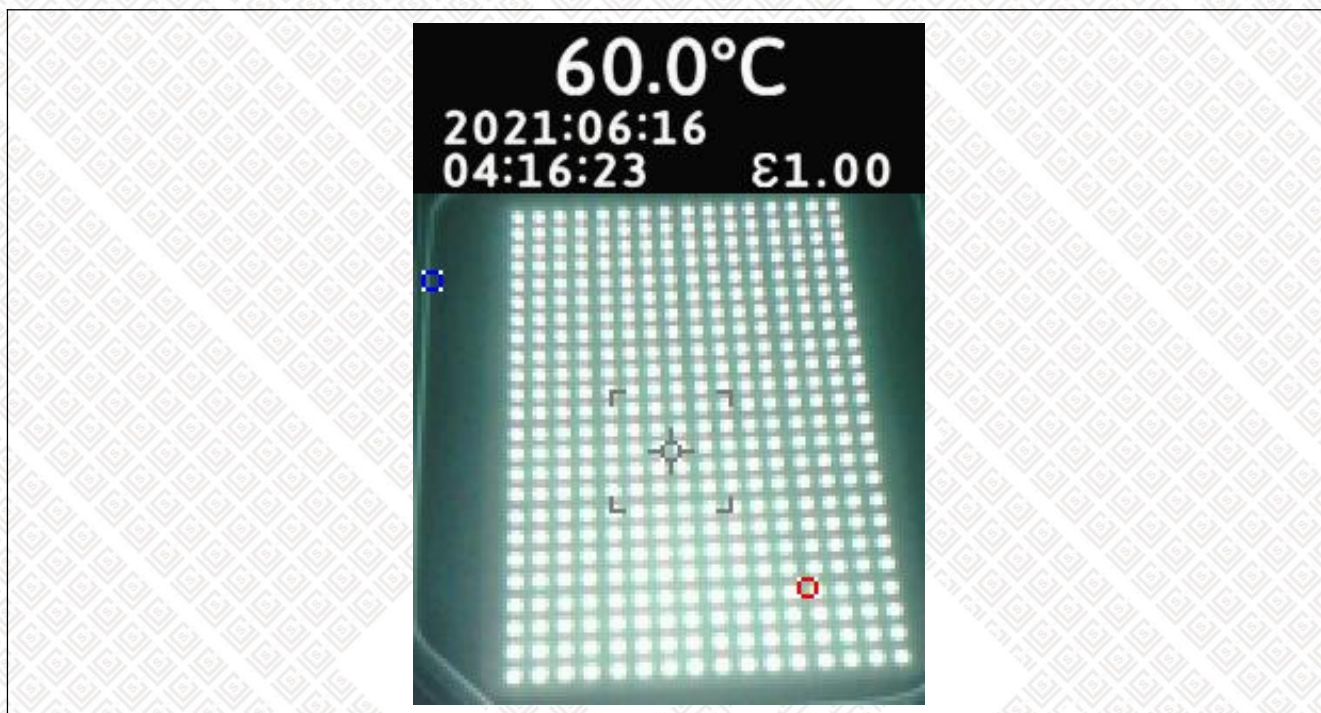


Photo 1

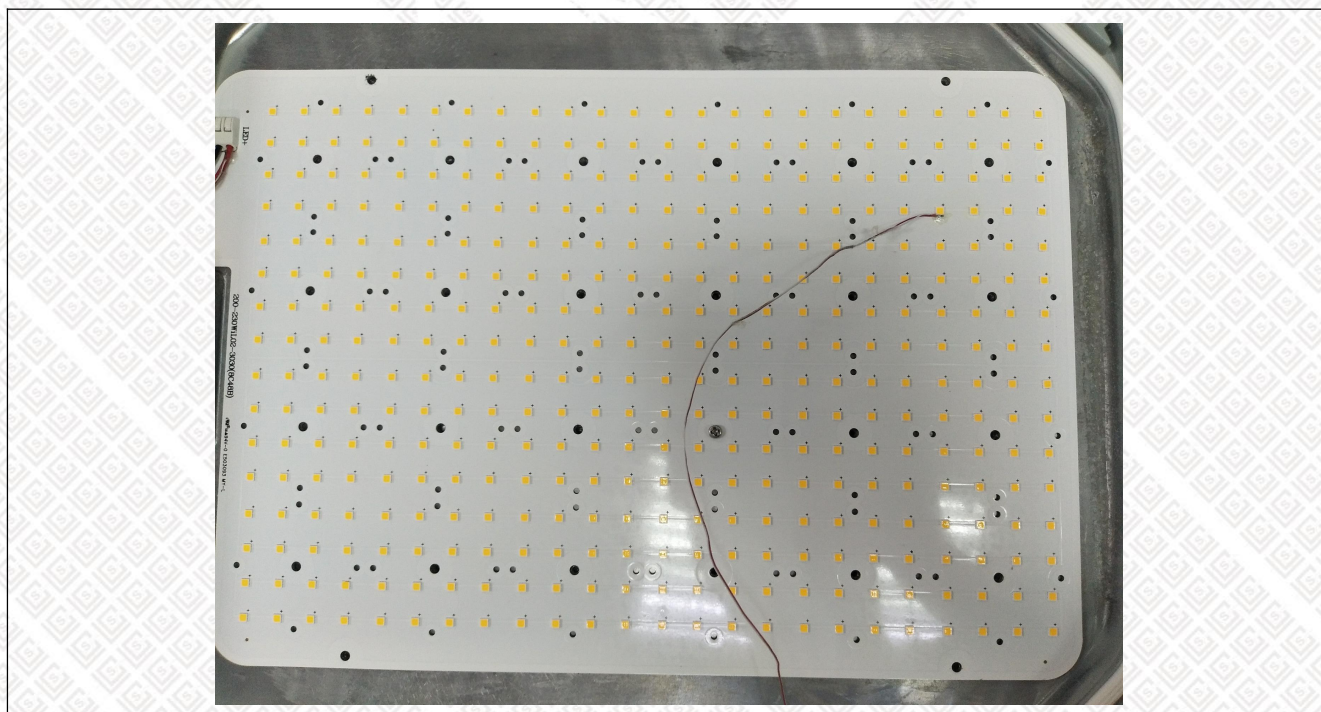


Photo 2



Photo 3

4.2 Product Photos



Photo 1



Photo 2



LED STREET LIGHT



Model: AOK-200WiL02-NV-L3-00-40

120-277V~, 50/60Hz, 150W

IK08 IP66 ta 50°C

AOK Industrial Company Limited

Made In China

Photo 3 Label of the light

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