

	TEST REPORT		
Kunde: Client:	AOK Industrial Company Limited		
Adresse: Address:	Building 1,Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong Province, China		
Hersteller: Manufacturer:	AOK Industrial Company Limited		
Adresse: Address:	Building 1,Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong Province, China		
Name der Marke: Brand Name:	Quality, Honesty, Service and Innovation		
Beschreibungdes Produkts: Product Description:	LED Street Light		
Modelle: Models:	AOK-95WoT-NVY-L3-00-3080-T301-A		
Bewertung: Rating:	100-240V~, 50/60Hz, 95W		
Verfahren: Method:	According to requirement clause 12.4.1 of IEC 60598.1: 2014+A1:2017; IEC 60598.2.3:2002+A1:2011 (also reference EN 60598-1or AS/NZS 60598-1)		
Prüfergebnis*: Test result*:	Pass		
Datum der Prüfung: Date of Test:	Datum der Emission:Klassifizierung:Gegenstand der Prüfung:Date of Issue:Classification:Test item:		
2020-06-19~2020-06-30	2021-01-07 Commission Test ISTMT Test and TM21 Test		
Prüflabor (Testlabor) / Tes Shenzhen Southern LCS C	eting Laboratory: ompliance Testing Laboratory Ltd.		
Test von/Test by: Lydia Luo	Check von/Check by: Genehmigt von/Approved by: APPROVED APPROVED		
Lydia Luo/ Project Engine			

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. GENERAL INFORMATION

1.1 Product Information

Product description	LED Street Light		
Model Number	AOK-95WoT-NVY-L3-00-3080-T301-A		
Manufacturer of LED Driver	INVENTRONICS		
LED Driver models	EUK-150S350DV		
Rated Inputs	100-240V~, 50/60Hz		
Rated Power	95W		
Declared CCT.	3000K		
LED Package, Array or Module	6S30P; 180pcs LED chip(s)		
Date of Receipt Samples	2020-06-19		
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)	L130-3080003000W2C		
Forward voltage of the LED chip	5.8-6.6V		
Forward current of the LED chip	120mA		
ISTMT temperature of the LED chip	105℃		
IES LM-80 Test Report	Report No.: S3703 Issue Date: 2018-05-25 Tested and Prepared by: Lumileds		



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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:

- 1. Measurement was conducted at a stable ambient temperature $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$.
- 2. ISTMT was test under normal operation condition in Australia at 230V (+10%/-6%), 50Hz.

Detail information for models covered in this report as below.

Model No.	Rating	LED driver	ССТ	Reported L ₉₀ B ₁₀ lumen maintenance life	
AOK-95WoT-NVY-L	100-240V~,	ELIK 4500250DV	3000K	≥100000hours	
3-00-3080-T301-A	50/60Hz, 95W	EUK-150S350DV			

Equipment list

Equipment No.	Equipment Name	Specification data	Cal. Date	Due Date
SLCS-S-004	Digital Power Meter	0-600Vac, 0-10kW, 0-20A	2020/05/15	2021/05/14
SLCS-S-011	J Thermocouple	0~300℃	2020/05/15	2021/05/14
SLCS-S-029	Temperature recorder	34970A	2020/05/15	2021/05/14



1.2 Reference Standards or Methods

The following standards are partly or totally used or referenced for test

Standard No.	Name		
IES TM-21-11	The Estimation of Lumen Maintenance Life of LED		
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources		
Annex A of IES LM-84-14	Measuring Lumen Flux and Color Maintenance of LED		
	lamps, Lighting Engines, and Luminaires		

2. Test Result of ISTMT

2.1 Electrical data

Criteria Item	Result
Input voltage	230.0V
Input current	0.416A
Total power	93.9W
Power factor	0.978
Current on each LED module	80mA

Remark: There are 180pcs LED chip(s) (6S30P) in models AOK-95WoT-NVY-L3-00-3080-T301-A, That we are measurement the total current of driver output was 2400mA, and current on each parallel was 80mA (2400mA/30=80mA), Because in each series that the forward current on each LED chip(s) was equivalent, so forward current on each LED chip(s) was 80mA.

2.2 Temperature data

Ambie	ent Temperature, °C :	25 <u>+</u> 1°C	Relative Hum	nidity, % :	65%	
Suppl	y voltage:	230 Vac/50Hz	Type of thermocouples:		J	
Test Product Model AOK-95WoT			T-NVY-L3-00-3080-T301-A			
Test L	ED Model	L130-3080003000W2C				
Test L	ED Driver Model	EUK-150S350DV				
Numb	er of Driver / Product	One Lamp with a power supply				
Test D	Ouration	≥3.5Hours				
Item	Parts		Test Result (℃)	Revise to	ta. (℃)	Limit (℃)
1	Measured maximum Temperature @ TEMLED		57.5	57.4	4	105
2	tc. of LED driver		50.5	50.4	4	90
3	Ambient	7/2. Y 6 Y 6 Y 6	25.1	25.0		V., V <u>.,</u> V.,





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

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

Manufactured by	Lumileds		
LED Model	L130-3080003000W2C		
Number of LED light source tested	20 units		
Drive Current	120mA		
Case temperature	-0/0/0/0	105℃	
10000 hours lumen maintenance	20.0	97.86℃	
10000 hours color maintenance (△u'v')	70	0.0019	

3.2 Temperature Interpolation

Test data from LM-80 report #S3703 was referenced to calculate the lumen maintenance life according to IES TM-21-11

Projected from calculated L₉₀B₁₀: L₉₀B₁₀>60000hours



4.1 Thermocouple contact photo of @ TEMLED



Figure 1

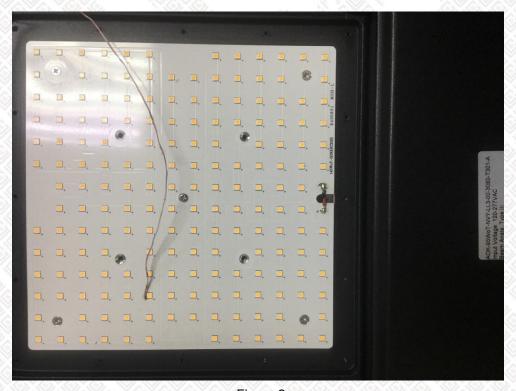


Figure 2



4.2 Thermocouple contact photo (.tc point of LED driver)



Figure 3

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4.3 Product Photos



Figure 4 (General view)



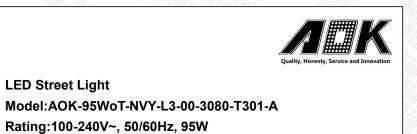
Figure 5 (General view)







Figure 6 (Label of the LED driver)



CCT: 3000K



AOK Industrial Company Limited

MADE IN CHINA

Figure 7 (Label of the light)