

	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-L5-00-3080-T302-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	sting Laboratory: compliance Testing Laboratory Ltd.
Test von/Test by:	Check von/Check by: Genehmigt von/Approved by:
lydia luo	Torres Ma Justin
Lydia Luo/ Project Engine	er 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.

Page 2 of 9 Report No.:LCS200617030BS



1. GENERAL INFORMATION

1.1 Product Information

Product description	LED Street Light
Model Number	AOK-95WoT-NVY-L5-00-3080-T302-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	2S46P; 92pcs 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 5050
Model of the LED chip(s)	L150-3080502400000
Forward voltage of the LED chip	23.5-24.5V
Forward current of the LED chip	60mA
ISTMT temperature of the LED chip	105℃
IES LM-80 Test Report	Report No.: S280e Issue Date: 2017-10-23 Tested and Prepared by: LUMILEDS.



Report No.:LCS200617030BS



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~,	THE 1500250DV	200014	>100000houra
5-00-3080-T302-A	50/60Hz, 95W	EUK-150S350DV	3000K	≥100000hours

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
V.SV., Y6X6X6X6X6X6	lamps, Lighting Engines, and Luminaires

2. Test Result of ISTMT

2.1 Electrical data

Criteria Item	Result
Input voltage	230.0V
Input current	0.423A
Total power	95.4W
Power factor	0.980
Current on each LED module	42.39mA

Remark: There are 92 pcs LED chip(s) (2S46P) in models AOK-95WoT-NVY-L5-00-3080-T302-A, That we are measurement the total current of driver output was 1950mA, and current on each parallel was 42.39mA (1950mA/46=42.39mA), Because in each series that the forward current on each LED chip(s) was equivalent, so forward current on each LED chip(s) was 42.39mA.

2.2 Temperature data

Ambie	ent Temperature, °C :	25 <u>+</u> 1°C	Relative Hum	nidity, %:	65%	
Suppl	y voltage:	230 Vac/50H	z Type of therm	nocouples:	J	
Test P	Product Model	AOK-95WoT-NVY-L5-00-3080-T302-A				
Test L	.ED Model	L150-3080502400000				
Test L	ED Driver Model	EUK-150S350DV				
Numb	er of Driver / Product	One Lamp wi	th a power supply	VoVoVo		
Test D	Ouration	≥3.5Hours				
Item	Parts		Test Result (℃)	Revise to	ta. (℃)	Limit (℃)
1	Measured maximum ⁻ @ TEM _{LED}	Temperature	55.4	55.3		105
2	tc. of LED driver		48.0	47.9		85
3	Ambient	76. Y6Y6X	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	L150-3080502400000			
Number of LED light source tested	20 units			
Drive Current	60 mA			
Case temperature	70℃	85℃	105℃	
17000 hours lumen maintenance	97.05℃	96.19℃	95.38℃	
17000 hours color maintenance (△u'v')	0.0036	0.0038	0.0044	

3.2 Temperature Interpolation

Test data from LM-80 report #S280e was referenced to calculate the lumen maintenance life according to IES TM-21-11

Projected from calculated L₉₀B₁₀: L₉₀B₁₀>48000hours



4.1 Thermocouple contact photo of @ TEMLED



Figure 1



Figure 2



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



Figure 3

Page 8 of 9 Report No.:LCS200617030BS



4.3 Product Photos



Figure 4 (General view)



Figure 5 (General view)



Report No.:LCS200617030BS





Figure 6 (Label of the LED driver)

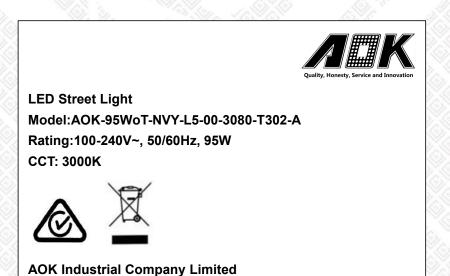


Figure 7 (Label of the light)

MADE IN CHINA

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