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Report No.: LCS200617038BS

Kunde: Client:	AOK Inc	AOK Industrial Company Limited				
Adresse: Address:		Building 1,Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong Province, China				
Hersteller: Manufacturer:	AOK Inc	Justrial Company Limited				
Adresse: Address:		g 1,Shengzuozhi Technology Ind angdong Province, China	ustrial Pa	ark, Shajing Street, Shenzhen		
Name der Marke: Brand Name:	Quality, Honesty	Quality, Honesty, Service and Innovation				
Beschreibungdes Produkts: Product Description:	LED Str	LED Street Light				
Modelle: Models:	AOK-25	WiP-NVM-L3-00-3080-T4-A				
Bewertung: Rating:	100-277V~, 50/60Hz, 25W					
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:		n der Emission: Klassifizie of Issue: Classificatio		Gegenstand der Prüfung: Test item:		
2020-06-19~2020-06-30	2021-0	01-07 Commissio	n Test	ISTMT Test and TM21 Test		
Prüflabor (Testlabor) / Tes Shenzhen Southern LCS C						
Test von/Test by:		Check von/Check by:	Ge	enehmigt von/Approved by:		
lydia luo		Torres Ma		Jussit		
Lydia Luo/ Project Engineer		Torres He/ Director	- Je	sse Liu/ Manager		
Dieser Prüfbericht bezig	vervielfä	ur auf das o.g. Prüfmuster und Itigt werden. Dieser Bericht ber Prüfzeichens.	echtigt n	e Genehmigung der Prüfstelle icht zur Verwendung eines g purposes is only allowed with		



# 1. GENERAL INFORMATION

### **1.1 Product Information**

Information of product:	
Product description	LED Street Light
Model Number	AOK-25WiP-NVM-L3-00-3080-T4-A
Manufacturer of LED Driver	MEAN WELL ENTERRISES CO .,LTD
LED Driver models	XLG-50-AB
Rated Inputs	100-277V~, 50/60Hz
Rated Power	25W
Declared CCT.	3000K
LED Package, Array or Module	2*(7S10P); 140pcs 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



#### 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  $25^{\circ}C \pm 1^{\circ}C$ .

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 <sub>90</sub> B <sub>10</sub> lumen maintenance life
AOK-25WiP-NVM-L 3-00-3080-T4-A	100-277V~, 50/60Hz, 25W	XLG-50-AB	3000K	≥100000hours

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	<b>0~300</b> ℃	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	0.12A
Total power	24.7W
Power factor	0.902
Current on each LED module	28mA

Remark: There are 140pcs LED chip(s) (2\*(7S10P)) in models AOK-25WiP-NVM-L3-00-3080-T4-A, That we are measurement the total current of driver output was 560mA, and current on each parallel was 28mA (560mA/20=28mA), Because in each series that the forward current on each LED chip(s) was equivalent, so forward current on each LED chip(s) was 28 mA.

#### 2.2 Temperature data

Ambie	ent Temperature, °C :	25 <u>+</u> 1°C	Relative Hum	nidity, % : 💋 6	65%	
Suppl	ly voltage: 230 Vac/50H		Iz Type of therm	nocouples: J		
Test F	Test Product Model AOK-25WiP-I		NVM-L3-00-3080-T4	-A		
Test LED Model L130-308000		3000W2C				
Test L	est LED Driver Model XLG-50-AB					
Numb	per of Driver / Product	vith a power supply				
Test D	Duration	≥3.5Hours		de Sesteste	YiYiYo,Vô	
Item	Parts		Test Result (℃)	Revise to ta.	(℃) Limit (℃)	
1	Measured maximum <sup>-</sup> @ TEM <sub>LED</sub>	Femperature	34.6	34.5	105	
2	tc. of LED driver		39.6	39.5	90	
3	Ambient		25.1	25.0	X X X AXA	



# 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		X
Number of LED light source tested	20 units		Ň
Drive Current	120mA		
Case temperature		<b>105</b> ℃	Se.
10000 hours lumen maintenance	-0.0	<b>97.86</b> ℃	S
10000 hours color maintenance ( $\triangle u'v'$ )		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 L<sub>90</sub>B<sub>10</sub>: L<sub>90</sub>B<sub>10</sub>>60000hours



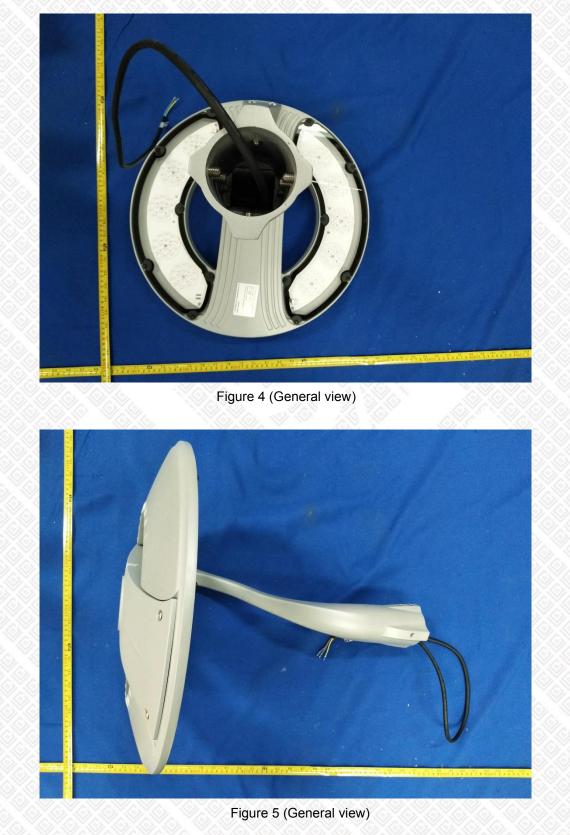








#### **4.3 Product Photos**







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