

Prüfbericht-Nr.: <i>Test Report No.:</i>		50357890 001		Auftrags-Nr.: <i>Order No.:</i>		170249928		<i>Seite 1 von 13</i> <i>Page 1 of 13</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>		N/A		Auftragsdatum: <i>Order date:</i>		2020-09-04			
Auftraggeber: <i>Client:</i>		AOK Industrial Company Limited Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong Province, P.R. China							
Prüfgegenstand: <i>Test item:</i>		LED Street Light							
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>		See in "General product information"							
Auftrags-Inhalt: <i>Order content:</i>		Type examination							
Prüfgrundlage: <i>Test specification:</i>		Clause 9.2 of standard EN 60598-1:2015							
Wareneingangsdatum: <i>Date of receipt:</i>		2020-09-04		Detaillierte Fotodokumentation siehe Anlage zu diesem Bericht Detailed photo documentation see appendix to this report					
Prüfmuster-Nr.: <i>Test sample No.:</i>		A000826065-001 to 008							
Prüfzeitraum: <i>Testing period:</i>		2020-09-04 to 2020-10-26							
Ort der Prüfung: <i>Place of testing:</i>		TÜV Rheinland (GuangDong) Ltd.							
Prüflaboratorium: <i>Testing laboratory:</i>		TÜV Rheinland (GuangDong) Ltd.							
Prüfergebnis*: <i>Test result*:</i>		Pass							
geprüft von / tested by:				kontrolliert von / reviewed by:					
2021-01-15 Desmond Li / Project Engineer				2021-01-15 Mars Yan / Technical certifier					
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>				
Sonstiges / Others:									
- As client's requirements, this report and test result is only for IP66 test according to clause 9.2 of EN 60598-1:2015. Further tests should be evaluated for the compliance of EN 60598-1:2015 but not include in this test report, other details refer to main test report: 50357888 001.									
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>				Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>					
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested									
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. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>									

Summary of testing:	
Tests performed (name of test and test clause): As client's requirements, this report and test result is only for IP66 test according to clause 9.2 of EN 60598-1:2015.	Testing location: TÜV Rheinland (GuangDong) Ltd. No.199 Kezhu Road, GZ Science City, Guangzhou 510663, P.R. China
Summary of compliance with National Differences: List of countries addressed N/A	

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Representative



Location: Attached on the external surface

Purple: Dim+, Gray: Dim-



Location: Attached on the supply cord



“Terminal block not included. Installation may require advice from a qualified person.”

Location: Contained in the package

Remark:

1. The marking for the other models are identical as above except the model number and rated parameters.
2. The height of letters and numerals shall not be less than 2mm.
3. The height of graphical symbols shall not be less than 5mm.
4. Label material: PET film.

Test item particulars..... :	
Classification of installation and use : Class I	
Supply Connection : Supply cord	
..... :	
Possible test case verdicts:	
- test case does not apply to the test object : N/A	
- test object does meet the requirement..... : P (Pass)	
- test object does not meet the requirement : F (Fail)	
Testing..... :	
Date of receipt of test item..... : 2020-09-04	
Date (s) of performance of tests..... : 2020-09-04 to 2020-10-26	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Clause numbers between brackets refer to clauses in IEC 61347-1	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided..... :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)..... : Same as applicant	

General product information:

1. Products covered in this report are Class I LED street light for outdoor use only.
2. Ratings: AC 220-240V, 50/60Hz, Class I, IP66, IK08.
3. There are two series of LED street light, power of product from 20W to 70W are series 1, from 80W to 220W are series 2
4. Differences in each series are LED driver used, size and LED quantity.
5. supplemental insulation between dimming circuit and output circuit on all LED drivers

Model	Input	input current	Power	LED driver	size	LED type	LED quantity	Mounting height	ta	Weight
AOK-20WiL02-NV-L3-00-XX70-BN-PH-I	220-240VAC 50/60Hz	0.1A	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	6C18B 108	Max. 15m	50 °C	2.93 kg
AOK-20WiL02-NV-L5-00-XX70-BN-PH-I						5050	2C18B 36	Max. 15m	50 °C	2.92 kg
AOK-20WiL02-NV-L3-00-XX70-BN-PH-I				SS-30VA-56B		3030	6C18B 108	Max. 15m	50 °C	3.00 kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-I		0.15A	30W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	6C18B 108	Max. 15m	50 °C	2.93 kg
AOK-30WiL02-NV-L5-00-XX70-BN-PH-I						5050	2C18B 36	Max. 15m	50 °C	2.92 kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-I				SS-30VA-56B		3030	6C18B 108	Max. 15m	50 °C	3.00 kg
AOK-40WiL02-NV-L3-00-XX70-BN-PH-I		0.2A	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	6C18B 108	Max. 15m	50 °C	2.93 kg
AOK-40WiL02-NV-L5-						5050	2C18B 36	Max. 15m	50 °C	2.92 kg

00-XX70-BN-PH-I										
AOK-40WiL02-NV-L3-00-XX70-BN-PH-I				SS-50VA-56B		3030	6C18B 108	Max. 15m	50 °C	3.50 kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*2 30*80 mm	3030	16C9B 144	Max. 15m	50 °C	3.11 kg
AOK-50WiL02-NV-L5-00-XX70-BN-PH-I		0.25A	50W			5050	3C18B 54	Max. 15m	50 °C	3.08 kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-I						3030	6C18B 108	Max. 15m	50 °C	3.21 kg
AOK-60WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*2 30*81 mm	3030	16C9B 144	Max. 15m	50 °C	3.11 kg
AOK-60WiL02-NV-L5-00-XX70-BN-PH-I		0.3A	60W			5050	3C18B 54	Max. 15m	50 °C	3.08 kg
AOK-60WiL02-NV-L3-00-XX70-BN-PH-I						3030	6C24B 144	Max. 15m	50 °C	3.24 kg
AOK-70WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*2 30*82 mm	3030	16C9B 144	Max. 15m	50 °C	3.11 kg
AOK-70WiL02-NV-L5-00-XX70-BN-PH-I		0.35A	70W			5050	3C18B 54	Max. 15m	50 °C	3.08 kg
AOK-70WiL02-NV-L3-						3030	6C24B 144	Max. 15m	50 °C	3.24 kg

00-XX70-BN-PH-I										
AOK-80WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt		3030	24C6B 144	Max. 15m	50 °C	5.21 kg
AOK-80WiL02-NV-L5-00-XX70-BN-PH-I		0.4A	80W		646*2 40*13 7mm	5050	6C12B 72	Max. 15m	50 °C	5.20 kg
AOK-80WiL02-NV-L3-00-XX70-BN-PH-I				SS- 100VA- 56B		3030	8C18B 144	Max. 15m	50 °C	5.23 kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt		3030	24C6B 144	Max. 15m	50 °C	5.21 kg
AOK-90WiL02-NV-L5-00-XX70-BN-PH-I		0.45A	90W		646*2 40*13 7mm	5050	6C12B 72	Max. 15m	50 °C	5.20 kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-I				SS- 100VA- 56B		3030	8C18B 144	Max. 15m	50 °C	5.23 kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-I				Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt		3030	24C8B 192	Max. 15m	45 °C	5.25 kg
AOK-100WiL02-NV-L5-00-XX70-BN-PH-I		0.5A	100 W		646*2 40*13 7mm	5050	6C12B 72	Max. 15m	45 °C	5.23 kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-I				SS- 100VA- 56B		3030	8C24B 192	Max. 15m	50 °C	5.25 kg
AOK-120WiL02-NV-L3-00-XX70-BN-PH-I		0.6A	120 W	Xi FP 110W 0.3-1.0A		3030	24C8B 192	Max. 15m	50 °C	5.23 kg

00-XX70-BN-PH-I				SNLDAE 230V C133 sXt						
AOK- 120WiL0 2-NV-L5- 00-XX70- BN-PH-I					646*2 40*13 7mm	5050	6C12B 72	Max. 15m	50 °C	5.22 kg
AOK- 120WiL0 2-NV-L3- 00-XX70- BN-PH-I				SS- 150VA- 56B		3030	8C24B 192	Max. 15m	50 °C	5.25 kg
AOK- 130WiL0 2-NV-L3- 00-XX70- BN-PH-I				Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt		3030	30C8B 240	Max. 15m	50 °C	6.12 kg
AOK- 130WiL0 2-NV-L5- 00-XX70- BN-PH-I					676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	6.15 kg
AOK- 130WiL0 2-NV-L3- 00-XX70- BN-PH-I				SS- 150VA- 56B		3030	8C30B 240	Max. 15m	50 °C	6.17 kg
AOK- 140WiL0 2-NV-L3- 00-XX70- BN-PH-I				Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt		3030	30C8B 240	Max. 15m	50 °C	6.13 kg
AOK- 140WiL0 2-NV-L5- 00-XX70- BN-PH-I					676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	6.11 kg
AOK- 140WiL0 2-NV-L3- 00-XX70- BN-PH-I				SS- 150VA- 56B		3030	8C30B 240	Max. 15m	50 °C	6.18 kg
AOK- 150WiL0 2-NV-L3- 00-XX70- BN-PH-I				Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt		3030	30C8B 240	Max. 15m	50 °C	6.12 kg
AOK- 150WiL0 2-NV-L5-					676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	6.10 kg

00-XX70-BN-PH-I										
AOK-150WiL0 2-NV-L3-00-XX70-BN-PH-I				SS-150VA-56B		3030	8C30B 240	Max. 15m	50 °C	6.18 kg
AOK-160WiL0 2-NV-L3-00-XX70-BN-PH-I				Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt		3030	40C8B 320	Max. 15m	50 °C	7.14 kg
AOK-160WiL0 2-NV-L5-00-XX70-BN-PH-I		0.8A	160 W		676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	7.10 kg
AOK-160WiL0 2-NV-L3-00-XX70-BN-PH-I				SS-200VA-56B		3030	8C40B 320	Max. 15m	50 °C	7.08 kg
AOK-170WiL0 2-NV-L3-00-XX70-BN-PH-I				Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt		3030	40C8B 320	Max. 15m	50 °C	7.14 kg
AOK-170WiL0 2-NV-L5-00-XX70-BN-PH-I		0.85A	170 W		676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	7.10 kg
AOK-170WiL0 2-NV-L3-00-XX70-BN-PH-I				SS-200VA-56B		3030	8C40B 320	Max. 15m	50 °C	7.08 kg
AOK-180WiL0 2-NV-L3-00-XX70-BN-PH-I				Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt		3030	40C8B 320	Max. 15m	50 °C	7.14 kg
AOK-180WiL0 2-NV-L5-00-XX70-BN-PH-I		0.9A	180 W		676*2 90*13 7mm	5050	8C15B 120	Max. 15m	50 °C	7.10 kg
AOK-180WiL0 2-NV-L3-				SS-200VA-56B		3030	8C40B 320	Max. 15m	50 °C	7.08 kg

00-XX70-BN-PH-I										
AOK-200WiL0 2-NV-L3-00-XX70-BN-PH-I		1.0A	200 W	Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt	756*308*138mm	3030	48C8B 384	Max. 15m	50 °C	7.14 kg
AOK-200WiL0 2-NV-L5-00-XX70-BN-PH-I						5050	12C12 B 144	Max. 15m	50 °C	7.10 kg
AOK-200WiL0 2-NV-L3-00-XX70-BN-PH-I				SS-200VA-56B		3030	8C48B 384	Max. 15m	45 °C	7.08 kg
AOK-220WiL0 2-NV-L3-00-XX70-BN-PH-I		1.1A	220 W	Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt	756*308*138mm	3030	48C8B 384	Max. 15m	45 °C	7.35 kg
AOK-220WiL0 2-NV-L5-00-XX70-BN-PH-I						5050	12C12 B 144	Max. 15m	45 °C	7.34 kg
AOK-220WiL0 2-NV-L3-00-XX70-BN-PH-I				SS-240VA-56B		3030	8C48B 384	Max. 15m	45 °C	7.30 kg

'XX' can be 30-57, stands for LED CCT, e.g. 30=3000K, 57=5700K;

'BN' can be can be T20z, T30z, T21z, T31z, T41z, stands for view angle of LED lens. e.g. T20=83°*150°, T21=107°*159°, T30=97°*161°T31=86°*154°, T41=112°*145°.z can be 1 and 2, 1 means for 3030 module, and 2 for 5050 module.

Clause	Requirement + Test	Result - Remark	Verdict
1.13 (9)	RESISTANCE TO DUST AND MOISTURE		P
1.13 (-)	If IP > IP 20 the order of tests as specified in clause 1.12		P
1.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP..... :	IP66	—
	- mounting position during test	As normal use	—
	- fixing screws tightened; torque (Nm)..... :	Two third of 4.12	—
	- tests according to clauses	Cl.9.2.2 & cl.9.2.7	—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry		N/A
	c.2) For luminaires with drain holes – no hazardous water entry		P
	d) no water in watertight or pressure watertight luminaire		P
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		P

IP66 test

Tested with AOK-70WiL02-NV-L3-00-XX70-BN-PH-I



Tested with AOK-220WiL02-NV-L3-00-XX70-BN-PH-I



After IP66 test

Tested with AOK-70WiL02-NV-L3-00-XX70-BN-PH-I



Tested with AOK-220WiL02-NV-L3-00-XX70-BN-PH-I



---End of Report---