

Prüfbericht-Nr.: <i>Test Report No.:</i>	50357896 001	Auftrags-Nr.: <i>Order No.:</i>	170249928	<i>Seite 1 von 11</i> <i>Page 1 of 11</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>	A000826065-004 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:		
2021-01-30 Desmond Li, Project Engineer		2021-01-30 Miss 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>
Sonstiges / Others:				
<ul style="list-style-type: none"> - 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: 50357894 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>		
<p>* 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</p> <p>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</p>				
<p>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></p>				

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 external surface

L N

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 II	
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 II LED street light for outdoor use.
2. Ratings: AC 220-240V, 50/60Hz, Class II, 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-II	220-240VAC 50/60Hz	0.1A	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	108 6C18B	Max 15m	50°C	2.93 kg
AOK-20WiL02-NV-L5-00-XX70-BN-PH-II						5050	36 2C18B	Max 15m	50°C	2.92 kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-II		0.15 A	30W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	108 6C18B	Max 15m	50°C	2.93 kg
AOK-30WiL02-NV-L5-00-XX70-BN-PH-II						5050	36 2C18B	Max 15m	50°C	2.92 kg
AOK-40WiL02-NV-L3-00-XX70-BN-PH-II		0.2A	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	3030	108 6C18B	Max 15m	50°C	2.93 kg
AOK-40WiL02-NV-L5-00-XX70-BN-PH-II						5050	36 2C18B	Max 15m	50°C	2.92 kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-II		0.25 A	50W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*80 mm	3030	144 16C9B	Max 15m	50°C	3.11 kg
AOK-50WiL02-NV-L5-						5050	54 3C18B	Max 15m	50°C	3.08 kg

00-XX70-BN-PH-II										
AOK-60WiL02-NV-L3-00-XX70-BN-PH-II		0.3A	60W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*2 30*81 mm	3030	144 16C9B	Max 15m	50°C	3.11 kg
AOK-60WiL02-NV-L5-00-XX70-BN-PH-II						5050	54 3C18B	Max 15m	50°C	3.08 kg
AOK-70WiL02-NV-L3-00-XX70-BN-PH-II		0.35 A	70W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*2 30*82 mm	3030	144 16C9B	Max 15m	50°C	3.11 kg
AOK-70WiL02-NV-L5-00-XX70-BN-PH-II						5050	54 3C18B	Max 15m	50°C	3.08 kg
AOK-80WiL02-NV-L3-00-XX70-BN-PH-II		0.4A	80W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*2 40*13 7mm	3030	144 24C6B	Max 15m	50°C	5.21 kg
AOK-80WiL02-NV-L5-00-XX70-BN-PH-II						5050	72 6C12B	Max 15m	50°C	5.20 kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-II		0.45 A	90W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*2 40*13 7mm	3030	144 24C6B	Max 15m	50°C	5.21 kg
AOK-90WiL02-NV-L5-00-XX70-BN-PH-II						5050	72 6C12B	Max 15m	50°C	5.20 kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-II		0.5A	100 W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*2 40*13 7mm	3030	192 24C8B	Max 15m	45°C	5.25 kg
AOK-100WiL02-NV-L5-						5050	72 6C12B	Max 15m	45°C	5.23 kg

00-XX70-BN-PH-II										
AOK-110WiL0 2-NV-L3-00-XX70-BN-PH-II		0.6A	110 W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*2 40*13 7mm	3030	192 24C8B	Max 15m	50°C	5.23 kg
AOK-110WiL0 2-NV-L3-00-XX70-BN-PH-II						5050	72 6C12B	Max 15m	50°C	5.22 kg
AOK-130WiL0 2-NV-L3-00-XX70-BN-PH-II		0.65 A	130 W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*2 90*13 7mm	3030	240 30C8B	Max 15m	50°C	6.12 kg
AOK-130WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	120 8C15B	Max 15m	50°C	6.15 kg
AOK-140WiL0 2-NV-L3-00-XX70-BN-PH-II		0.7A	140 W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*2 90*13 7mm	3030	240 30C8B	Max 15m	50°C	6.13 kg
AOK-140WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	120 8C15B	Max 15m	50°C	6.11 kg
AOK-150WiL0 2-NV-L3-00-XX70-BN-PH-II		0.75 A	150 W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*2 90*13 7mm	3030	240 30C8B	Max 15m	50°C	6.12 kg
AOK-150WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	120 8C15B	Max 15m	50°C	6.10 kg
AOK-160WiL0 2-NV-L3-00-XX70-BN-PH-II		0.8A	160 W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*2 90*13 7mm	3030	320 40C8B	Max 15m	50°C	7.14 kg
AOK-160WiL0 2-NV-L5-	5050					120 8C15B	Max 15m	50°C	7.10 kg	

00-XX70-BN-PH-II										
AOK-170WiL0 2-NV-L3-00-XX70-BN-PH-II		0.85 A	170 W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*2 90*13 7mm	3030	320 40C8B	Max 15m	50°C	7.14 kg
AOK-170WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	120 8C15B	Max 15m	50°C	7.10 kg
AOK-180WiL0 2-NV-L3-00-XX70-BN-PH-II		0.9A	180 W	Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt	676*2 90*13 7mm	3030	40C8B 320	Max 15m	50°C	7.14 kg
AOK-180WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	8C15B 120	Max 15m	50°C	7.10 kg
AOK-200WiL0 2-NV-L3-00-XX70-BN-PH-II		1.0A	200 W	Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt	756*3 08*13 8mm	3030	384 48C8B	Max 15m	50°C	7.14 kg
AOK-200WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	144 12C12 B	Max 15m	50°C	7.10 kg
AOK-220WiL0 2-NV-L3-00-XX70-BN-PH-II		1.1A	220 W	Xi FP 330W 2:0.2-0.75A SND AE 230V C240 sXt	756*3 08*13 8mm	3030	384 48C8B	Max 15m	45°C	7.35 kg
AOK-220WiL0 2-NV-L5-00-XX70-BN-PH-II						5050	144 12C12 B	Max 15m	45°C	7.34 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		P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	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-II



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



After IP66 test

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



Tested AOK-220WiL02-NV-L3-00-XX70-BN-PH-II



---End of Report---