


Prüfbericht-Nr.: <i>Test Report No.:</i>	50357911 001	Auftrags-Nr.: <i>Order No.:</i>	170249928	Seite 1 von 11 <i>Page 1 of 11</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2020-08-21	
Auftraggeber: <i>Client:</i>	AOK Industrial Company Limited Building 1, Shengzuozhi Technology Industrial Park, Shajing Street, Shenzhen City, Guangdong, P.R. China			
Prüfgegenstand: <i>Test item:</i>	LED Street Light			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	see model list			
Auftrags-Inhalt: <i>Order content:</i>	Type examination			
Prüfgrundlage: <i>Test specification:</i>	Salt Spray test according to ASTM B117-16; ISO 10289: 1999 and client's special requirements			
Wareneingangsdatum: <i>Date of receipt:</i>	2020-08-21	<p>Detaillierte Fotodokumentation siehe Anlage zu diesem Bericht</p> <p>Detailed photo documentation see appendix to this report</p>		
Prüfmuster-Nr.: <i>Test sample No.:</i>	170249928-044			
Prüfzeitraum: <i>Testing period:</i>	2021-01-04 to 2021-01-22			
Ort der Prüfung: <i>Place of testing:</i>	Standard-Tech Testing Services			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: <i>Test result*:</i>	See following pages			
geprüft von / tested by:		kontrolliert von / reviewed by:		
2021-03-04 Ken Ou/ Project Engineer 		2021-03-04 Mars Yan / Reviewer 		
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 / Other:				
N/A				
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>				

Copy of marking plate:

N/A

Test item

Description..... : LED Street Light

Trademark : AOK

Model and/or type reference : see model list

Factory..... : AOK Industrial Company Limited
Building 1, Shengzuozhi Technology Industrial Park, Shajing Street,
Shenzhen City, Guangdong, P.R. China

Rating(s)..... : AC 220-240V, 50/60Hz, Class I and Class II, see model list for details

Test case verdicts

Test case does not apply to the test object..... : N/A

Test item does meet the requirement : P(ass)

Test item does not meet the requirement : F(ail)

Testing

Date of receipt of test item : See cover page

Date(s) of performance of test..... : See cover page



Summary of testing:

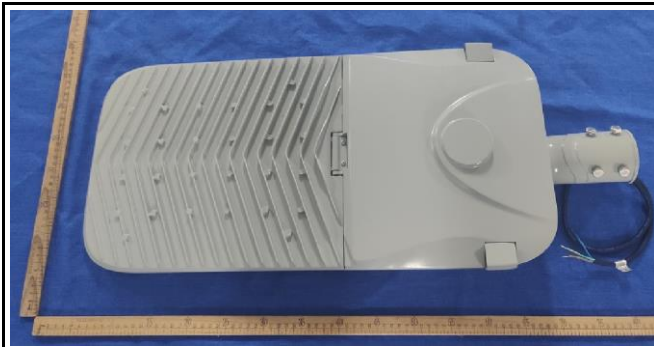
1. As per client's special requirement, the test was conducted to model AOK-220WiL02-NV-L3-00-XX70-BN-PH-I
2. Test place:
Standard-Tech Testing Services
Address: Standard-Tech Building, No. 6 Guanhong Road, Guangzhou Science City, Guangzhou 510663, China.

Test summary	
Test method:	ASTM B117-16 and client's special requirements
Test conditions:	
salt solution:	5%
Chamber temperature:	35±2°C
Volume of salt solution collected:	1.5±0.5 ml/(80cm ² ·h)
pH of collected solution:	6.5~7.2
Exposure period:	1000h
Specimen cleaning after the test:	rinse with deionised water not warmer than 38°C and then immediately dried
Evaluation method:	ISO 10289: 1999

Test result		
sample	Appearance	Appearance rating
1# (AOK-220WiL02-NV-L3-00-XX70-BN-PH-I)	no defects	10

Appearance rating refers to ISO 10289: 1999	
Area of defects, A (%)	Appearance rating
0(No defects)	10
0 < A≤0.1	9
0.1 < A≤0.25	8
0.25 < A≤0.5	7
0.5 < A≤1.0	6
1.0 < A≤2.5	5
2.5 < A≤5.0	4
5.0 < A≤10	3
10 < A≤25	2
25 < A≤50	1
50 < A	0

photos	
Before Test	After test
	





Model list				
model	power	LED driver	size	Weight
Class I				
AOK-20WiL02-NV-L3-00-XX70-BN-PH-I	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93 kg
AOK-20WiL02-NV-L5-00-XX70-BN-PH-I	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.92 kg
AOK-20WiL02-NV-L3-00-XX70-BN-PH-I	20W	SS-30VA-56B	470*230*79 mm	3.00 kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-I	30W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93 kg
AOK-30WiL02-NV-L5-00-XX70-BN-PH-I	30W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.92 kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-I	30W	SS-30VA-56B	470*230*79 mm	3.00 kg
AOK-40WiL02-NV-L3-00-XX70-BN-PH-I	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93 kg
AOK-40WiL02-NV-L5-00-XX70-BN-PH-I	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.92 kg
AOK-40WiL02-NV-L3-00-XX70-BN-PH-I	40W	SS-50VA-56B	470*230*79 mm	3.50 kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-I	50W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*80 mm	3.11 kg
AOK-50WiL02-NV-L5-00-XX70-BN-PH-I	50W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*80 mm	3.08 kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-I	50W	SS-50VA-56B	470*230*80 mm	3.21 kg
AOK-60WiL02-NV-L3-00-XX70-BN-PH-I	60W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*81 mm	3.11 kg
AOK-60WiL02-NV-L5-00-XX70-BN-PH-I	60W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*81 mm	3.08 kg
AOK-60WiL02-NV-L3-00-XX70-BN-PH-I	60W	SS-75VA-56B	470*230*81 mm	3.24 kg
AOK-70WiL02-NV-L3-00-XX70-BN-PH-I	70W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*82 mm	3.11 kg
AOK-70WiL02-NV-L5-00-XX70-BN-PH-I	70W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*82 mm	3.08 kg
AOK-70WiL02-NV-L3-00-XX70-BN-PH-I	70W	SS-75VA-56B	470*230*82 mm	3.24 kg
AOK-80WiL02-NV-L3-00-XX70-BN-PH-I	80W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.21 kg
AOK-80WiL02-NV-L5-00-XX70-BN-PH-I	80W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.20 kg
AOK-80WiL02-NV-L3-00-XX70-BN-PH-I	80W	SS-100VA-56B	646*240*13 7mm	5.23 kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-I	90W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.21 kg
AOK-90WiL02-NV-L5-00-XX70-BN-PH-I	90W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.20 kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-I144	90W	SS-100VA-56B	646*240*13 7mm	5.23 kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-I	100W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.25 kg
AOK-100WiL02-NV-L5-00-XX70-BN-PH-I	100W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.23 kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-I	100W	SS-100VA-56B	646*240*13 7mm	5.25 kg
AOK-120WiL02-NV-L3-00-XX70-BN-PH-I	120W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.23 kg

AOK-120WiL02-NV-L5-00-XX70-BN-PH-I	120W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.22 kg
AOK-120WiL02-NV-L3-00-XX70-BN-PH-I	120W	SS-150VA-56B	646*240*13 7mm	5.25 kg
AOK-130WiL02-NV-L3-00-XX70-BN-PH-I	130W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.12 kg
AOK-130WiL02-NV-L5-00-XX70-BN-PH-I	130W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.15 kg
AOK-130WiL02-NV-L3-00-XX70-BN-PH-I	130W	SS-150VA-56B	676*290*13 7mm	6.17 kg
AOK-140WiL02-NV-L3-00-XX70-BN-PH-I	140W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.13 kg
AOK-140WiL02-NV-L5-00-XX70-BN-PH-I	140W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.11 kg
AOK-140WiL02-NV-L3-00-XX70-BN-PH-I	140W	SS-150VA-56B	676*290*13 7mm	6.18 kg
AOK-150WiL02-NV-L3-00-XX70-BN-PH-I	150W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.12 kg
AOK-150WiL02-NV-L5-00-XX70-BN-PH-I	150W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	6.10 kg
AOK-150WiL02-NV-L3-00-XX70-BN-PH-I	150W	SS-150VA-56B	676*290*13 7mm	6.18 kg
AOK-160WiL02-NV-L3-00-XX70-BN-PH-I	160W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	7.14kg
AOK-160WiL02-NV-L5-00-XX70-BN-PH-I	160W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	7.10 kg
AOK-160WiL02-NV-L3-00-XX70-BN-PH-I	160W	SS-200VA-56B	676*290*13 7mm	7.08 kg
AOK-170WiL02-NV-L3-00-XX70-BN-PH-I	170W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	7.14 kg
AOK-170WiL02-NV-L5-00-XX70-BN-PH-I	170W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	676*290*13 7mm	7.10 kg
AOK-170WiL02-NV-L3-00-XX70-BN-PH-I	170W	SS-200VA-56B	676*290*13 7mm	7.08 kg
AOK-180WiL02-NV-L3-00-XX70-BN-PH-I	180W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	676*290*13 7mm	7.14 kg
AOK-180WiL02-NV-L5-00-XX70-BN-PH-I	180W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	676*290*13 7mm	7.10kg
AOK-180WiL02-NV-L3-00-XX70-BN-PH-I	180W	SS-200VA-56B	676*290*13 7mm	7.08 kg
AOK-200WiL02-NV-L3-00-XX70-BN-PH-I	200W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.14 kg
AOK-200WiL02-NV-L5-00-XX70-BN-PH-I	200W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.10 kg
AOK-200WiL02-NV-L3-00-XX70-BN-PH-I	200W	SS-200VA-56B	756*308*13 8mm	7.08 kg
AOK-220WiL02-NV-L3-00-XX70-BN-PH-I	220W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.35 kg
AOK-220WiL02-NV-L5-00-XX70-BN-PH-I	220W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.34 kg
AOK-220WiL02-NV-L3-00-XX70-BN-PH-I	220W	SS-240VA-56B	756*308*13 8mm	7.30 kg
Class II				
AOK-20WiL02-NV-L3-00-XX70-BN-PH-II	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93kg
AOK-20WiL02-NV-L5-00-XX70-BN-PH-II	20W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.92kg
AOK-30WiL02-NV-L3-00-XX70-BN-PH-II	30W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93kg
AOK-30WiL02-NV-L5-00-XX70-	30W	Xi FP 40W 0.3-1.0A	470*230*79	2.92kg

BN-PH-II		SNLDAE 230V C123 sXt	mm	
AOK-40WiL02-NV-L3-00-XX70-BN-PH-II	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.93kg
AOK-40WiL02-NV-L5-00-XX70-BN-PH-II	40W	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	470*230*79 mm	2.92kg
AOK-50WiL02-NV-L3-00-XX70-BN-PH-II	50W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*80 mm	3.11kg
AOK-50WiL02-NV-L5-00-XX70-BN-PH-II	50W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*80 mm	3.08kg
AOK-60WiL02-NV-L3-00-XX70-BN-PH-II	60W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*81 mm	3.11kg
AOK-60WiL02-NV-L5-00-XX70-BN-PH-II	60W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*81 mm	3.08kg
AOK-70WiL02-NV-L3-00-XX70-BN-PH-II	70W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*82 mm	3.11kg
AOK-70WiL02-NV-L5-00-XX70-BN-PH-II	70W	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	470*230*82 mm	3.08kg
AOK-80WiL02-NV-L3-00-XX70-BN-PH-II	80W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.21kg
AOK-80WiL02-NV-L5-00-XX70-BN-PH-II	80W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.20kg
AOK-90WiL02-NV-L3-00-XX70-BN-PH-II	90W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.21kg
AOK-90WiL02-NV-L5-00-XX70-BN-PH-II	90W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.20kg
AOK-100WiL02-NV-L3-00-XX70-BN-PH-II	100W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.25kg
AOK-100WiL02-NV-L5-00-XX70-BN-PH-II	100W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.23kg
AOK-110WiL02-NV-L3-00-XX70-BN-PH-II	110W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.23kg
AOK-110WiL02-NV-L5-00-XX70-BN-PH-II	110W	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	646*240*13 7mm	5.22kg
AOK-130WiL02-NV-L3-00-XX70-BN-PH-II	130W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.12kg
AOK-130WiL02-NV-L5-00-XX70-BN-PH-II	130W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.15kg
AOK-140WiL02-NV-L3-00-XX70-BN-PH-II	140W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.13kg
AOK-140WiL02-NV-L5-00-XX70-BN-PH-II	140W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.11kg
AOK-150WiL02-NV-L3-00-XX70-BN-PH-II	150W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.12kg
AOK-150WiL02-NV-L5-00-XX70-BN-PH-II	150W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	6.10kg
AOK-160WiL02-NV-L3-00-XX70-BN-PH-II	160W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	7.14kg
AOK-160WiL02-NV-L5-00-XX70-BN-PH-II	160W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	7.10kg
AOK-170WiL02-NV-L3-00-XX70-BN-PH-II	170W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	7.14kg
AOK-170WiL02-NV-L5-00-XX70-BN-PH-II	170W	Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt	646*240*13 7mm	7.10kg
AOK-180WiL02-NV-L3-00-XX70-BN-PH-II	180W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	646*240*13 7mm	7.14kg
AOK-180WiL02-NV-L5-00-XX70-BN-PH-II	180W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	646*240*13 7mm	7.10kg
AOK-200WiL02-NV-L3-00-XX70-BN-PH-II	200W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.14kg
AOK-200WiL02-NV-L5-00-XX70-	200W	Xi FP 330W 2:0.2-0.75A	756*308*13	7.10kg

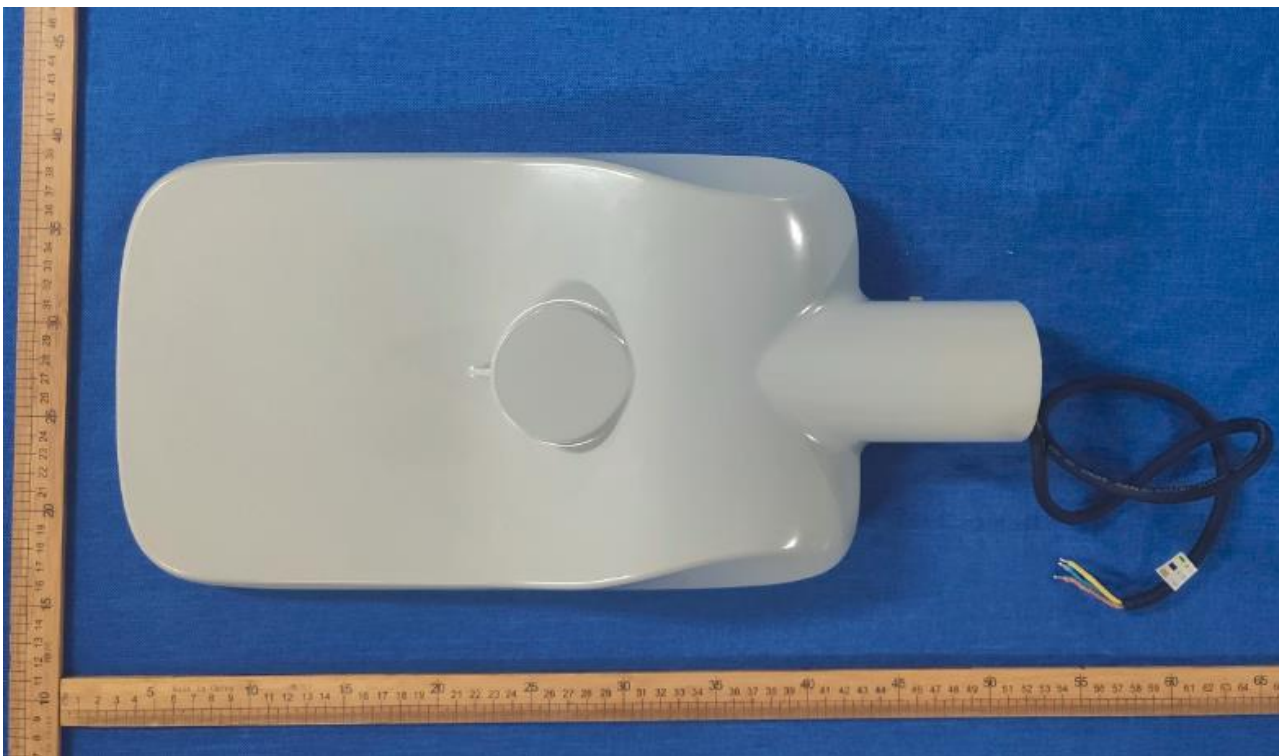
BN-PH-II		SNDAE 230V C240 sXt	8mm	
AOK-220WiL02-NV-L3-00-XX70-BN-PH-II	220W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.35kg
AOK-220WiL02-NV-L5-00-XX70-BN-PH-II	220W	Xi FP 330W 2:0.2-0.75A SNDAE 230V C240 sXt	756*308*13 8mm	7.34kg
<p>Remark:</p> <ol style="list-style-type: none"> 1. XX denotes the CCT, it can be 30-57 for 3000-5700K; 2. BN denotes the type of lens, it can be T20z, T30z, T21z, T31z, T41z (z=1 for 3030 LED; z=2 for 5050 LED); T20=83°150°, T21=107°159°, T30=97°161°T31=86°154°, T41=112°145°. 3. 20W, 30W, 40W, 50W, 60W and 70W models have the similar appearance and construction except for the size. 4. 80W, 90W, 100W, 120W, 130W, 140W, 150W, 160W, 170W, 180W and 220W models have the similar appearance and construction except for the size. 5. Models in point 3 and point 4 have similar construction. 6. Class I and Class II series are only different in the internal electrical construction. 7. Material is the same for all models. 				

Appendix: Product Photos

Overview of AOK-70WiL02-NV-L3-00-XX70-BN-PH-I; AOK-70WiL02-NV-L3-00-XX70-BN-PH-II



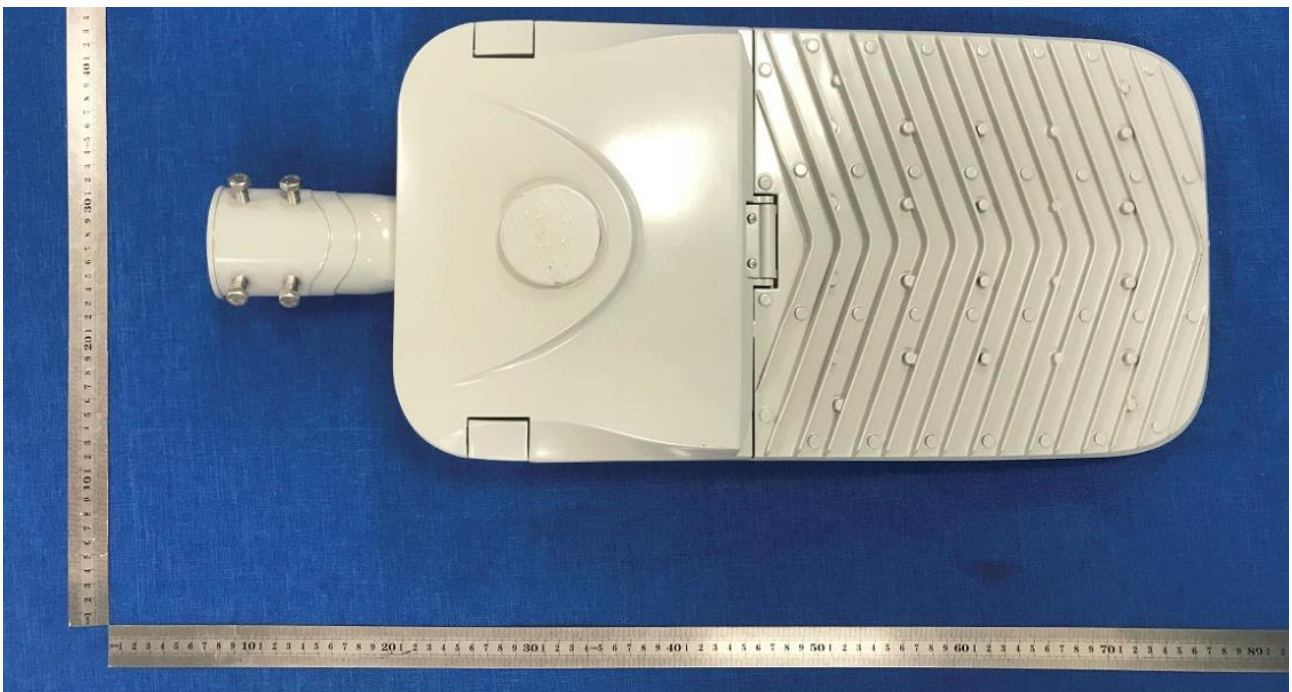
Overview of AOK-70WiL02-NV-L3-00-XX70-BN-PH-I; AOK-70WiL02-NV-L3-00-XX70-BN-PH-II



Overview of AOK-220WiL02-NV-L3-00-XX70-BN-PH-I; AOK-220WiL02-NV-L3-00-XX70-BN-PH-II



Overview of AOK-220WiL02-NV-L3-00-XX70-BN-PH-I; AOK-220WiL02-NV-L3-00-XX70-BN-PH-II



---End of Test Report---