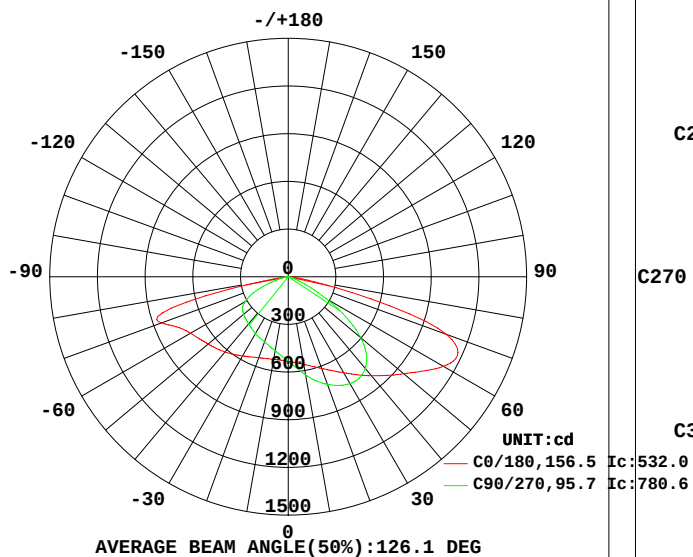
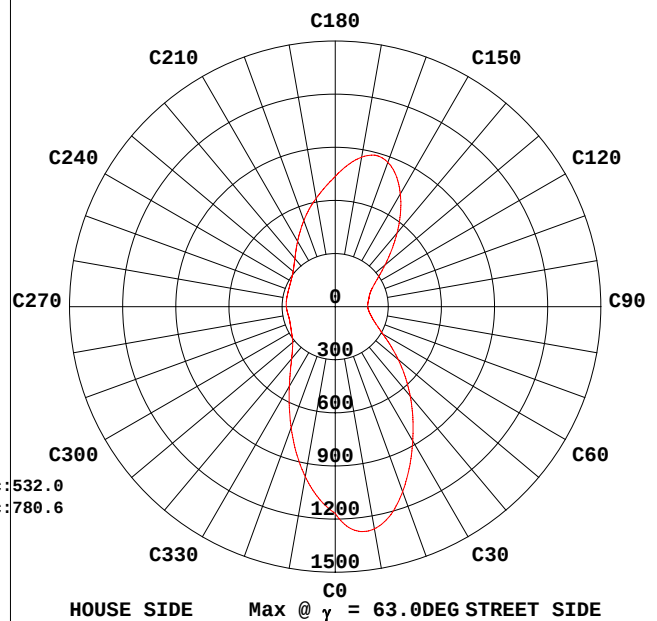


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.52 lm/W			
MODEL	3030	I _{max} (cd)	1216	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	59.8
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2601	η house_up(%)	0.0
NOMINAL FLUX(lm)	2600.85	MAXIMUM @(C,γ)	15,63.0	η house_down(%)	40.2
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	18.501

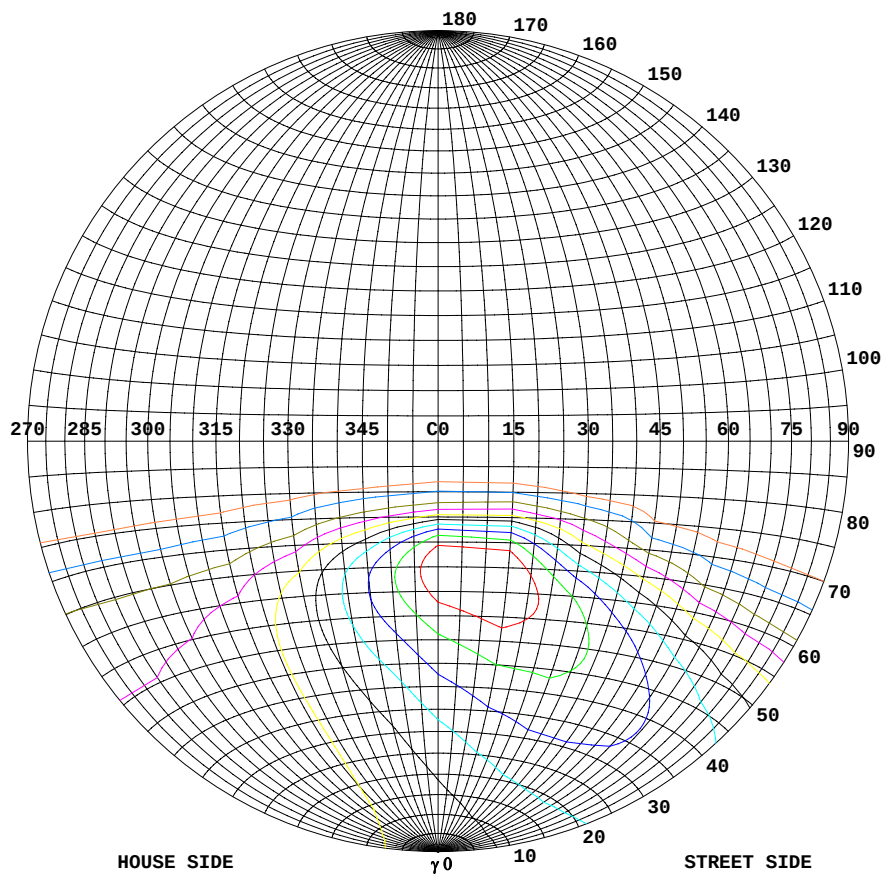
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



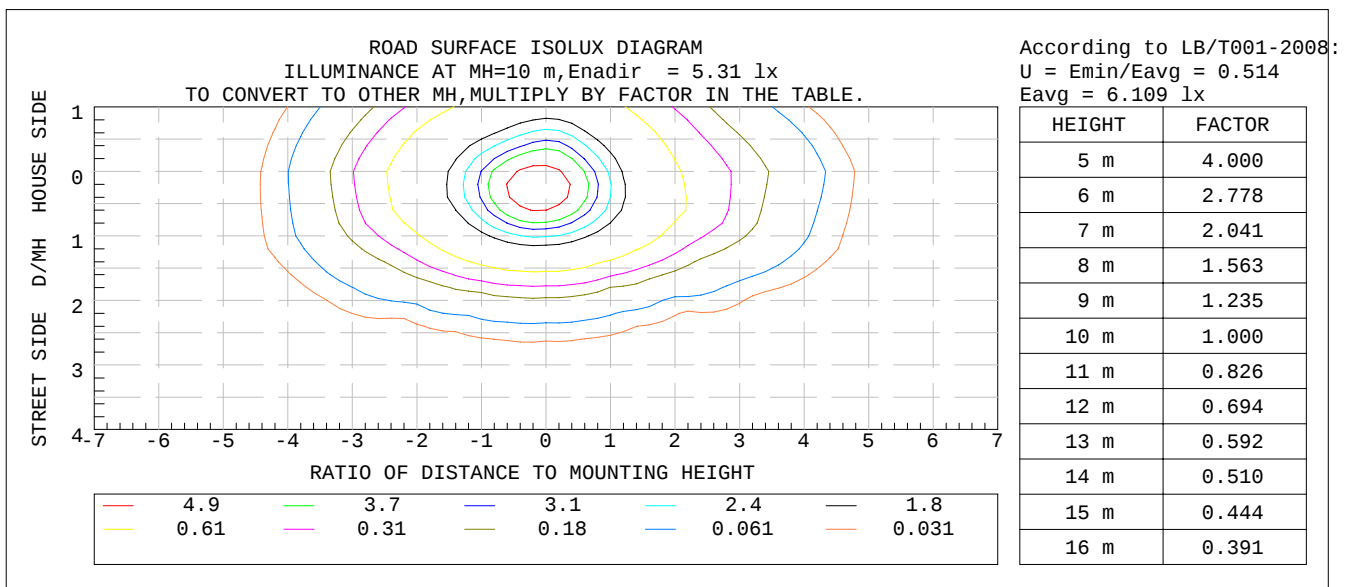
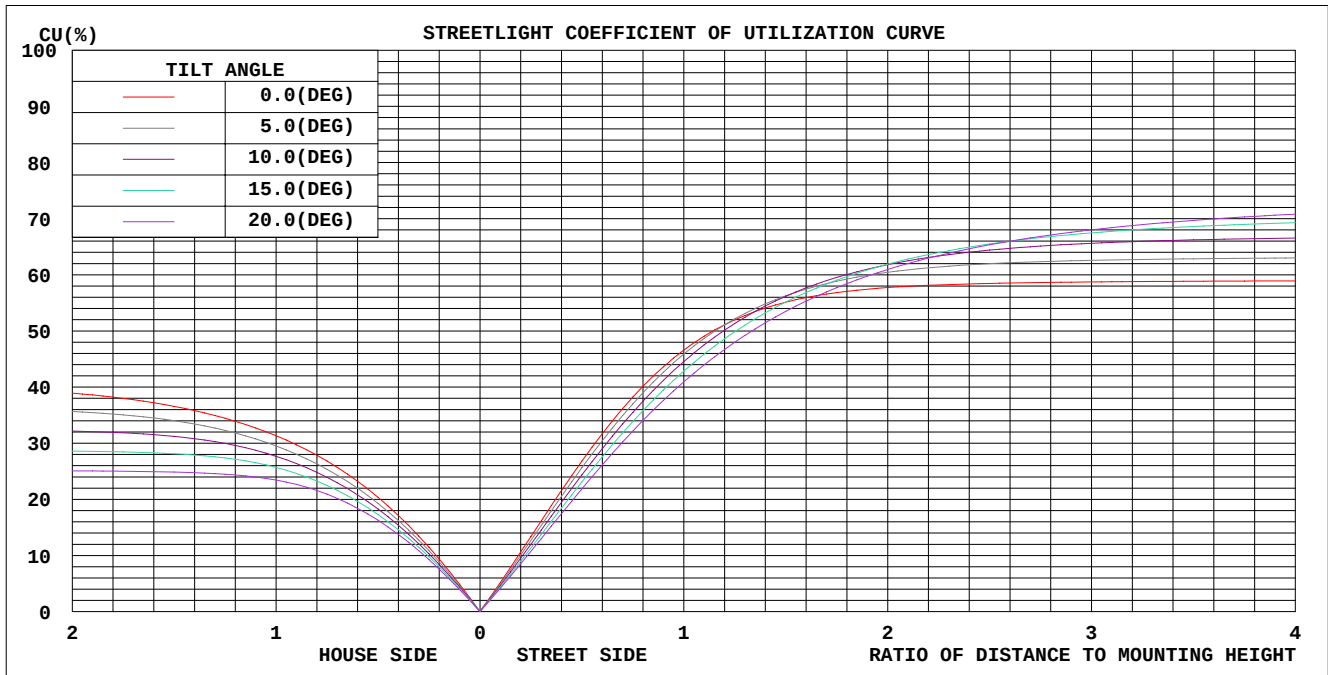
Classification:

IES:Type II - Short
CIE:Narrow - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:60.99cd/klm
Max.At90:0cd/klm
Max.80-90:60.99cd/klm
NRB 5101:Semi limited[25.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1216
90%	1094
80%	972
70%	851
60%	729
50%	608
40%	486
30%	365
20%	243
10%	122
5%	61

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	WEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

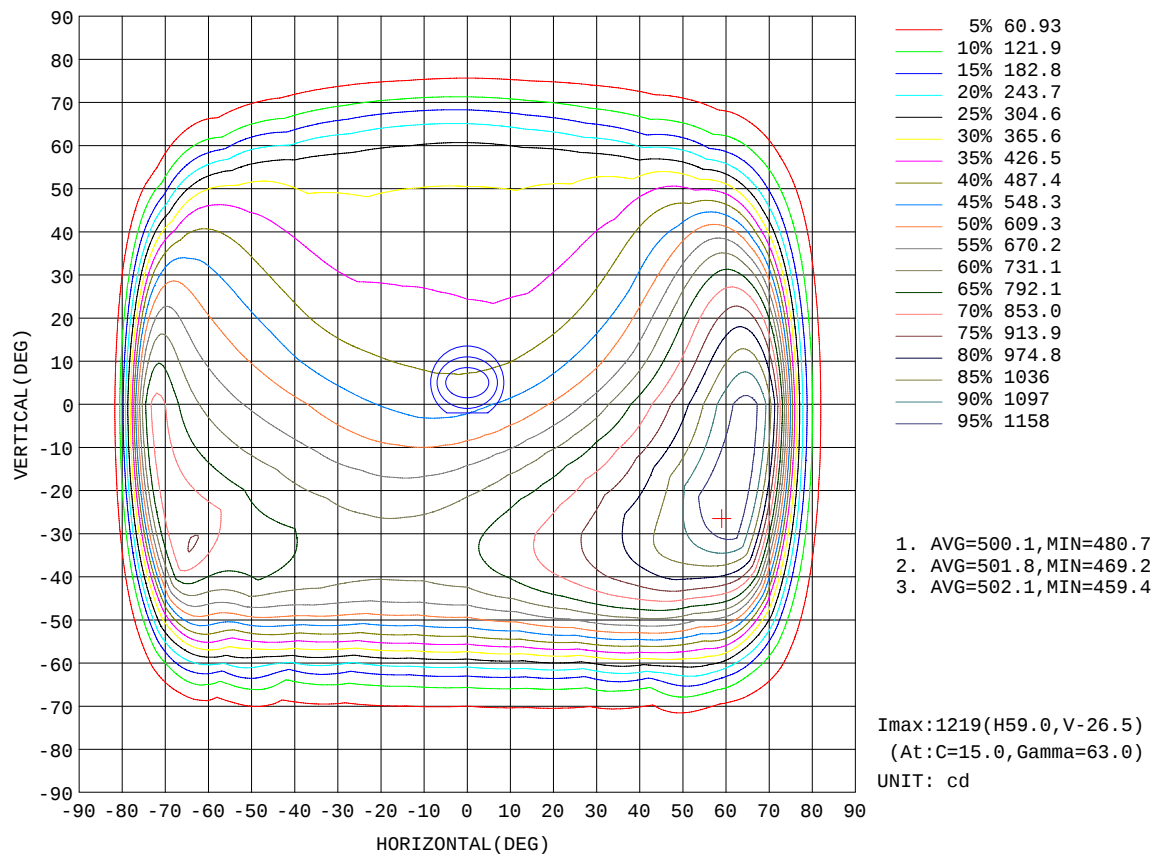
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
10	560.0	618.8	626.9	583.8	527.5	487.7	473.4	497.5	0- 10	51.48	51.48	1.98,1.98
20	613.9	735.1	720.2	651.3	542.8	466.4	436.7	474.6	10- 20	160.2	211.7	8.14,8.14
30	697.6	839.8	776.4	710.9	575.6	443.6	412.8	458.1	20- 30	277.1	488.8	18.8,18.8
40	812.6	918.3	753.9	760.3	618.5	420.5	388.0	448.5	30- 40	395.1	883.9	34,34
50	949.0	913.9	594.3	755.8	658.7	397.1	366.7	435.8	40- 50	496.7	1381	53.1,53.1
60	1127	686.6	273.4	561.2	711.2	354.6	312.6	381.6	50- 60	542.0	1923	73.9,73.9
70	1058	211.3	61.02	147.2	849.6	190.0	146.5	176.6	60- 70	460.8	2383	91.6,91.6
80	124.7	20.77	9.340	15.64	158.6	33.45	28.37	37.20	70- 80	204.1	2587	99.5,99.5
90	0	0	0	0	0	0	0	0	80- 90	13.37	2601	100,100
100	0	0	0	0	0	0	0	0	90-100	0	2601	100,100
110	0	0	0	0	0	0	0	0	100-110	0	2601	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2601	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2601	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2601	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2601	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2601	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2601	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2601	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

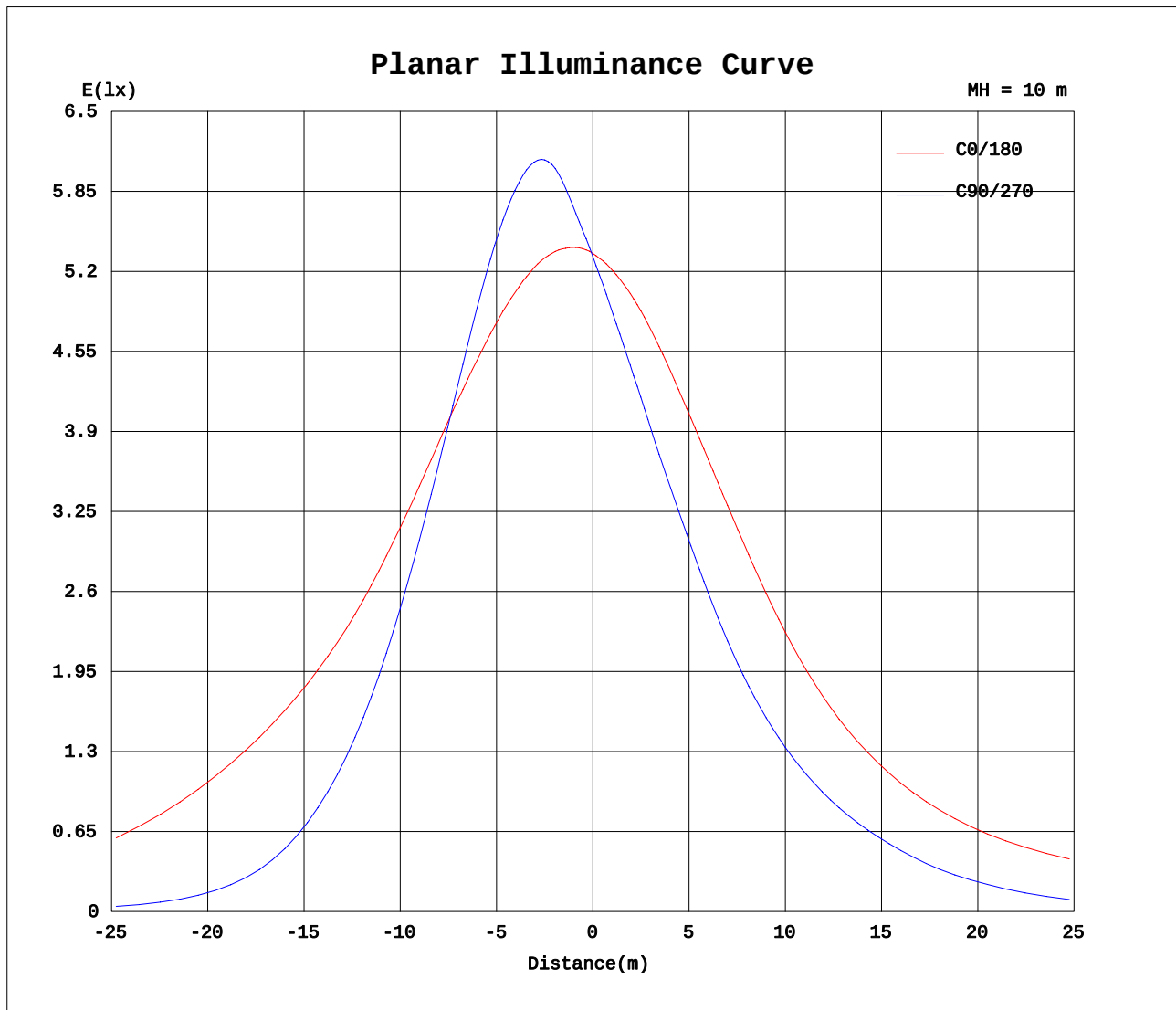
Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

Planar Illuminance Curve



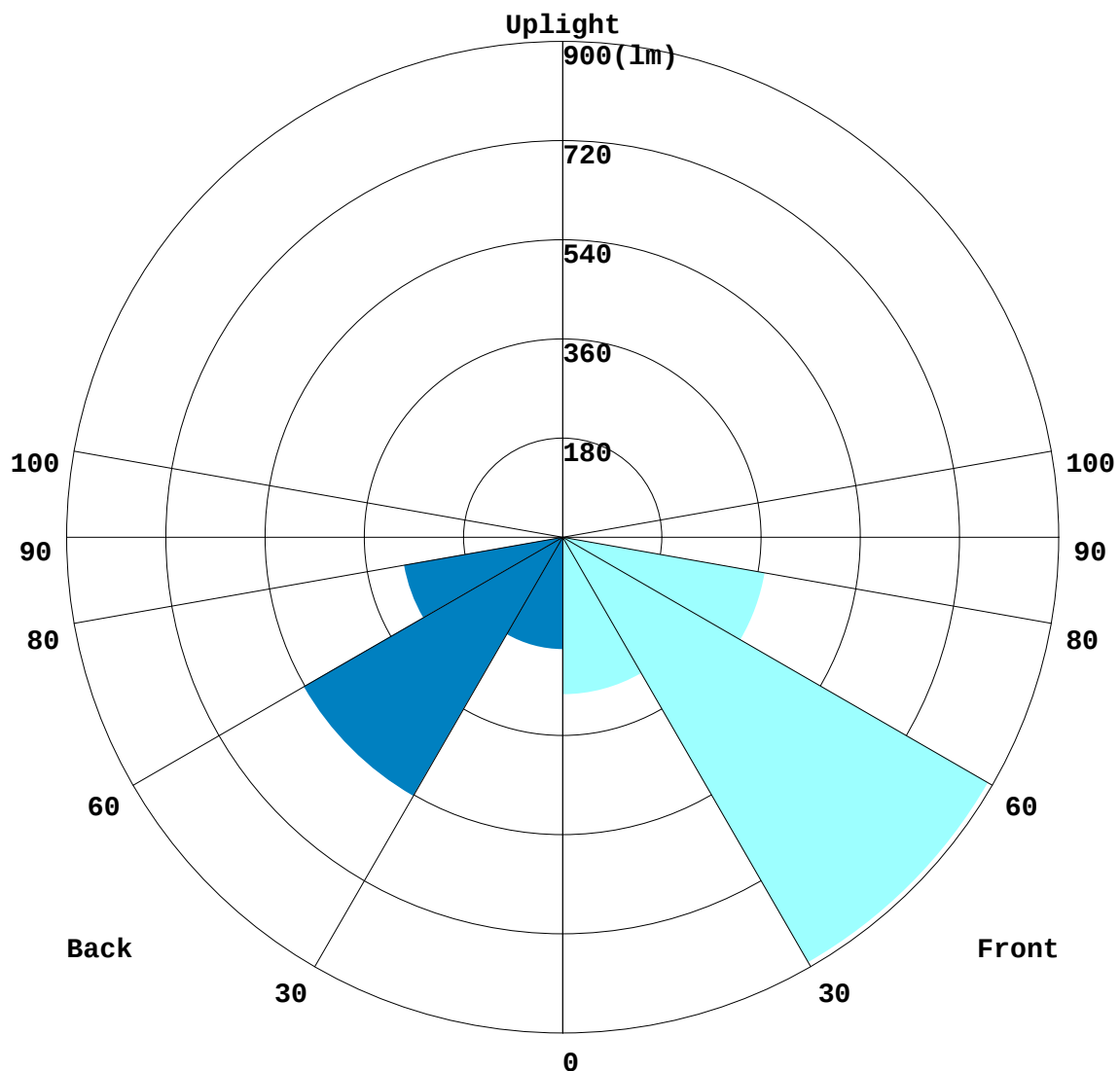
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity: 65.0%
Test Distance: 7.682m [K=1.0000]
Remarks:

LCS REPORT

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

BUG REPORT

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	285.32	11.0
FM - Front-Medium(30-60)	891.11	34.3
FH - Front-High(60-80)	372.7	14.3
FVH - Front-Very High(80-90)	5.651	0.2
Total Forward Light	1554.8	59.8

BL - Back-Low(0-30)	203.44	7.8
BM - Back-Medium(30-60)	542.67	20.9
BH - Back-High(60-80)	292.24	11.2
BVH - Back-Very High(80-90)	7.7184	0.3
Total Back Light	1046.1	40.2

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B1-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1046.1	0	1046.1
Street Side	1554.8	0	1554.8

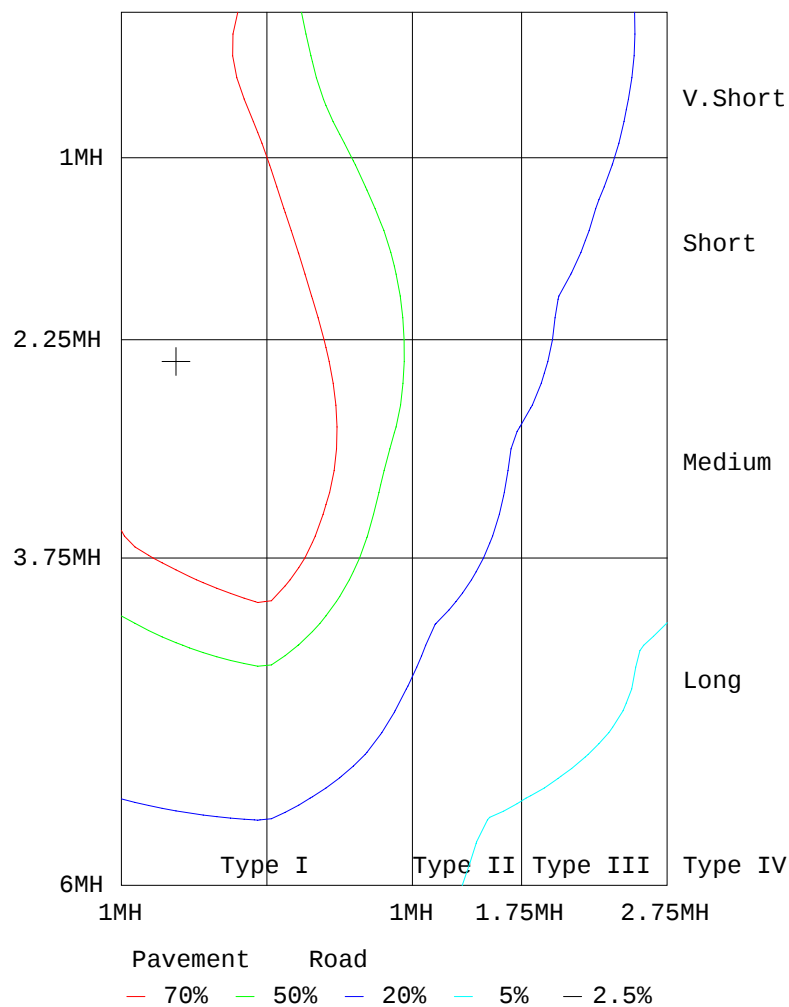
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	WEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
5	543	553	562	569	573	575	573	569	562	555	546	536	527	518	511	505	501	499	499
10	560	581	604	619	630	631	627	616	602	584	565	545	527	512	498	488	479	475	473
15	584	621	656	678	689	687	678	662	642	618	591	561	533	510	490	476	465	458	454
20	614	669	713	735	741	735	720	700	677	651	619	581	543	510	484	466	452	443	437
25	652	721	769	789	790	776	754	732	707	682	649	606	557	512	478	456	440	431	425
30	698	778	826	840	830	806	776	754	734	711	680	633	576	515	471	444	428	419	413
35	752	838	883	886	858	818	779	761	751	738	711	663	597	521	466	432	415	407	400
40	813	901	938	918	864	803	754	746	752	760	742	694	618	531	462	420	401	394	388
45	878	969	987	932	838	750	696	701	730	770	775	725	639	545	460	409	388	383	377
50	949	1045	1024	914	765	649	594	607	666	756	807	760	659	556	458	397	372	369	367
55	1035	1130	1031	839	632	502	447	469	544	697	822	800	682	564	454	381	353	352	351
60	1127	1204	969	687	444	318	273	296	374	561	793	851	711	570	442	355	324	315	313
65	1174	1197	787	465	229	158	135	147	189	368	670	907	759	569	408	306	260	251	245
70	1058	1008	520	211	95.1	70.1	61.0	66.5	82.2	147	435	909	850	530	309	190	160	151	147
75	538	531	255	65.3	41.9	33.4	25.8	31.1	37.0	54.9	183	652	763	319	123	76.6	70.9	65.8	66.8
80	125	117	48.6	20.8	15.4	10.8	9.34	9.70	13.2	15.6	37.2	149	159	49.3	36.3	33.5	33.4	29.3	28.4
85	11.5	8.14	3.47	2.37	1.55	1.38	1.03	1.07	1.02	1.27	1.49	3.14	3.45	5.22	7.27	8.86	11.9	9.66	10.8
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-09-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
Humidity:65.0%
Test Distance:7.682m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.4V I:0.1003A P:21.23W PF:0.9648 Freq:60.01Hz Lamp Flux:2600.85x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVY-L3-00-3080-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	532	532	532	532	532													
5	502	506	513	522	532													
10	477	485	498	515	537													
15	457	466	485	512	546													
20	438	450	475	511	559													
25	425	436	465	513	577													
30	413	425	458	518	600													
35	400	415	453	525	631													
40	389	405	448	536	669													
45	378	395	444	551	719													
50	368	384	436	565	774													
55	351	366	419	571	827													
60	311	330	382	552	859													
65	237	247	306	481	829													
70	139	146	177	319	650													
75	65.0	71.4	81.7	133	312													
80	30.3	35.0	37.2	45.9	78.2													
85	10.4	13.2	10.9	11.7	10.6													
90	0.00	0.00	0.00	0.00	0.00													
95	0.00	0.00	0.00	0.00	0.00													
100	0.00	0.00	0.00	0.00	0.00													
105	0.00	0.00	0.00	0.00	0.00													
110	0.00	0.00	0.00	0.00	0.00													
115	0.00	0.00	0.00	0.00	0.00													
120	0.00	0.00	0.00	0.00	0.00													
125	0.00	0.00	0.00	0.00	0.00													
130	0.00	0.00	0.00	0.00	0.00													
135	0.00	0.00	0.00	0.00	0.00													
140	0.00	0.00	0.00	0.00	0.00													
145	0.00	0.00	0.00	0.00	0.00													
150	0.00	0.00	0.00	0.00	0.00													
155	0.00	0.00	0.00	0.00	0.00													
160	0.00	0.00	0.00	0.00	0.00													
165	0.00	0.00	0.00	0.00	0.00													
170	0.00	0.00	0.00	0.00	0.00													
175	0.00	0.00	0.00	0.00	0.00													
180	0.00	0.00	0.00	0.00	0.00													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-09-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.363T
 Humidity:65.0%
 Test Distance:7.682m [K=1.0000]
 Remarks: