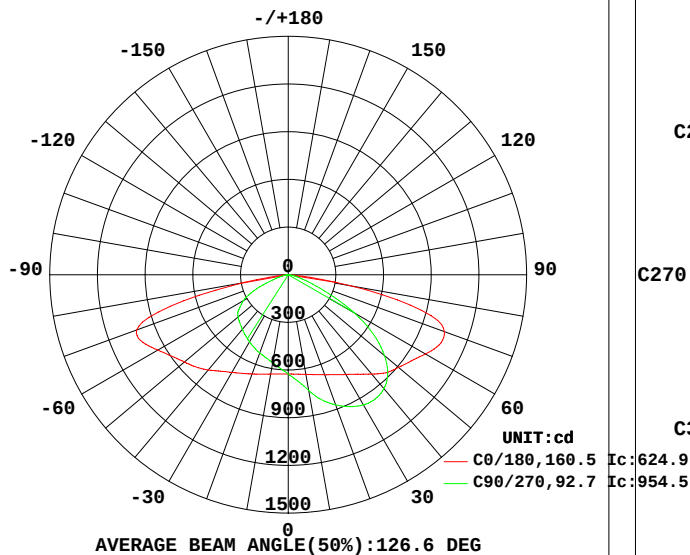
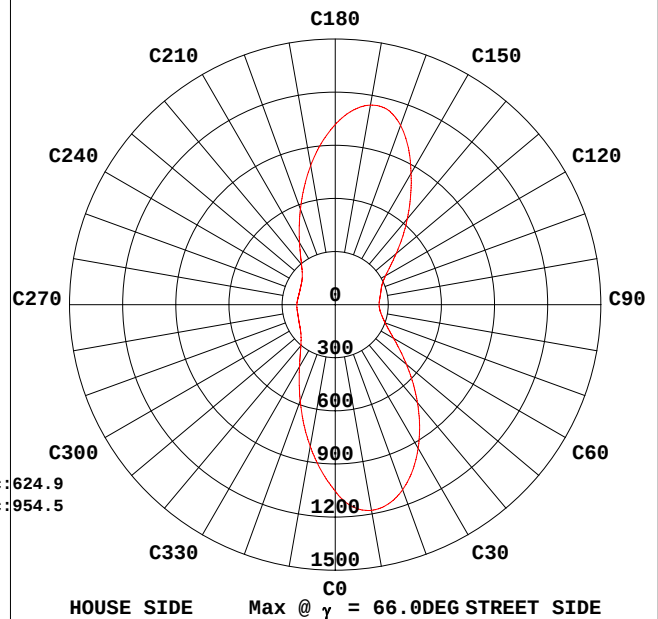


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.93 lm/W			
MODEL	3030	I _{max} (cd)	1164	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	62.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3077	η house_up(%)	0.0
NOMINAL FLUX(lm)	3077.44	MAXIMUM @(C,γ)	15,66.0	η house_down(%)	37.4
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	20.304

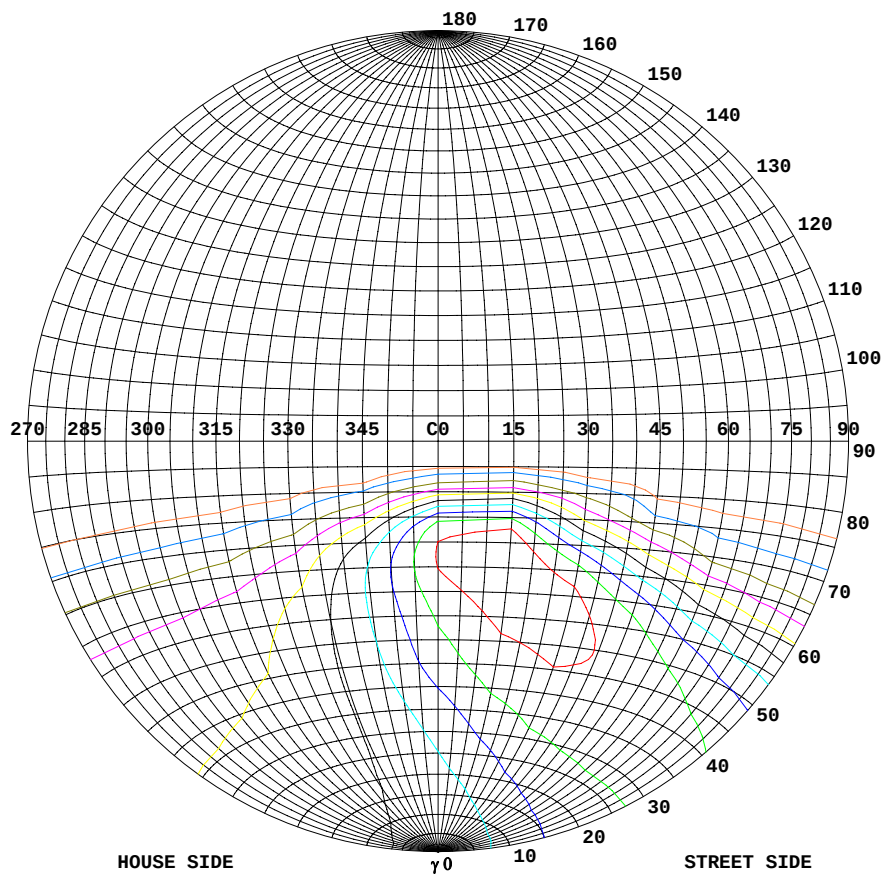
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



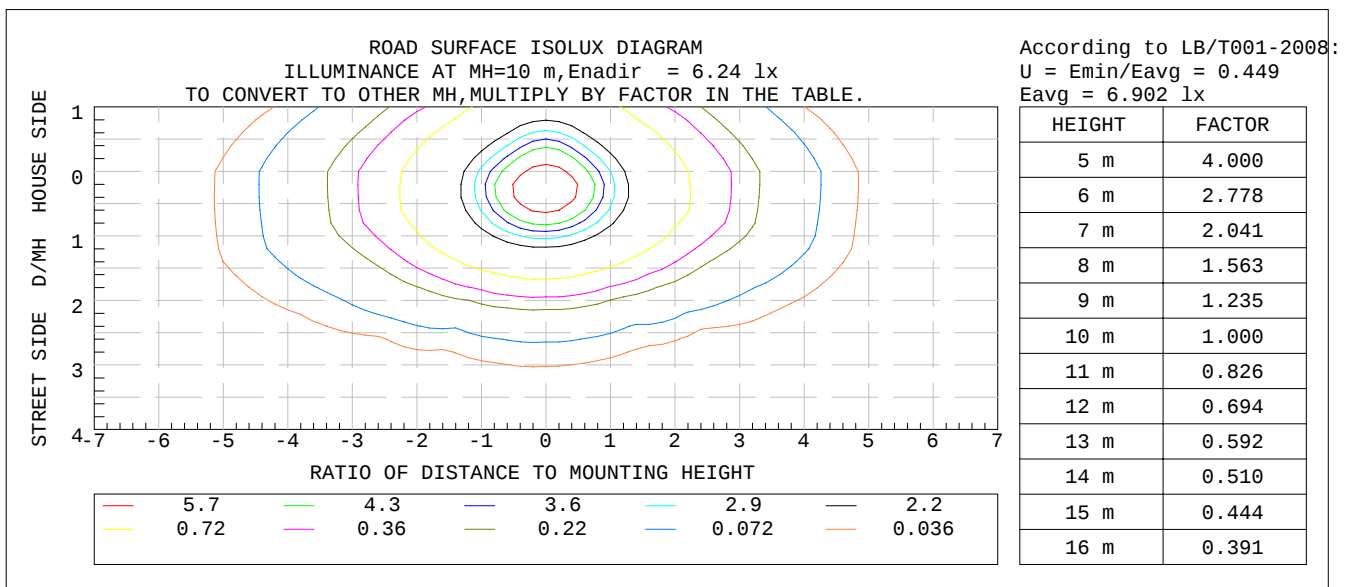
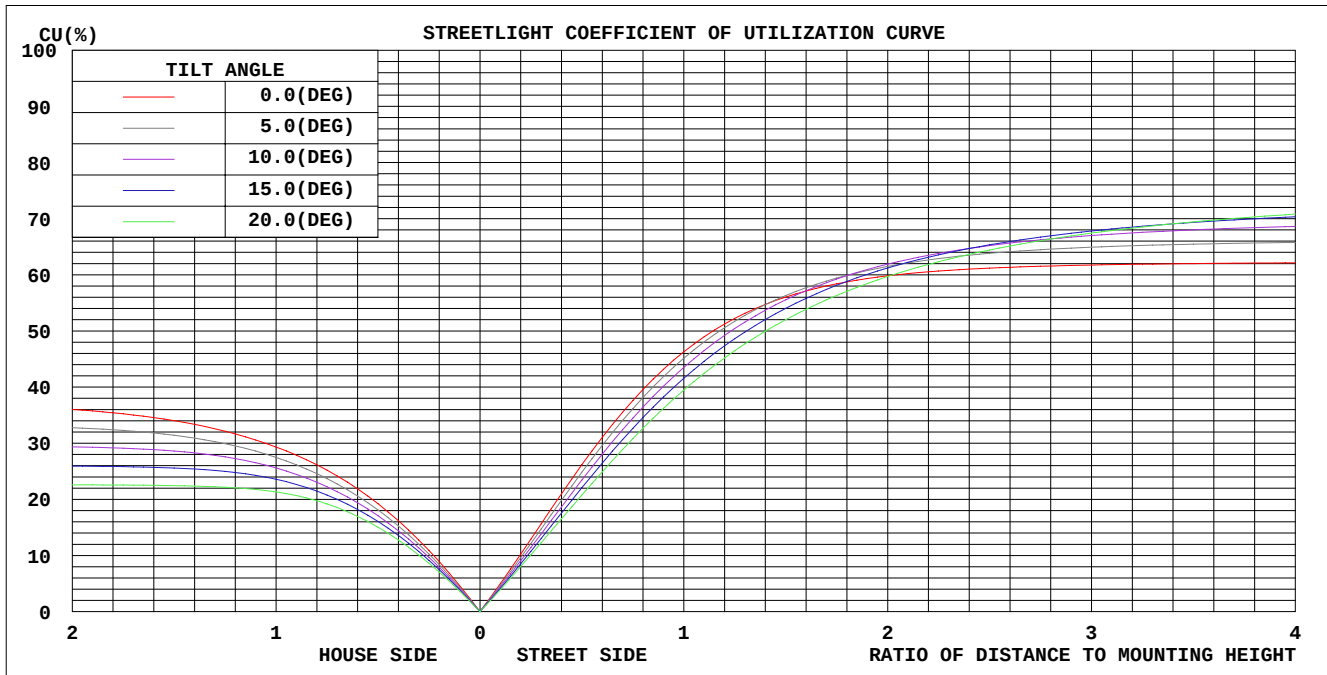
Classification:

IES:Type II - Short
CIE:Narrow - Intermediate
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:144.8cd/klm
Max.At90:0cd/klm
Max.80-90:144.8cd/klm
NRB 5101:Semi limited[27.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1164
90%	1048
80%	931
70%	815
60%	698
50%	582
40%	466
30%	349
20%	233
10%	116
5%	58

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

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: 2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	HEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

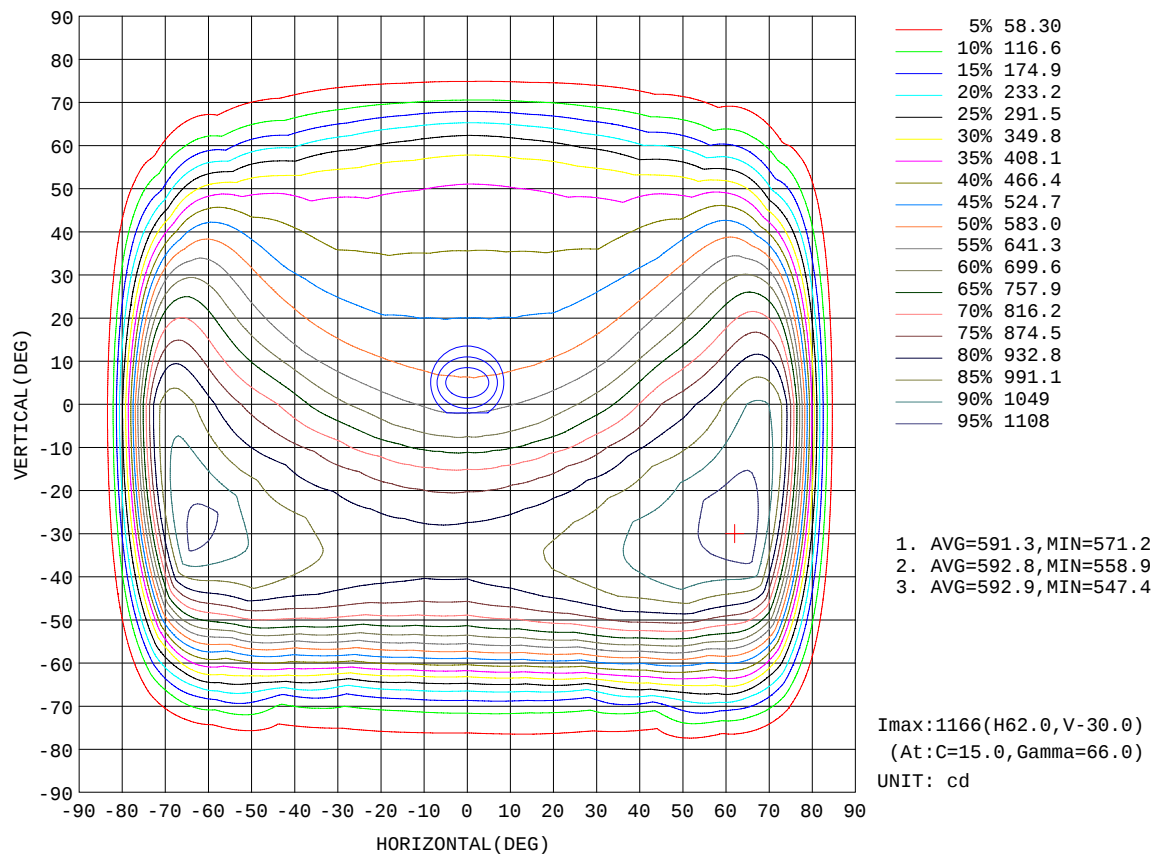
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
10	636.6	700.9	738.4	700.2	634.6	581.0	563.0	583.5	0- 10	60.42	60.42	1.96,1.96
20	669.6	833.2	871.4	824.8	664.8	549.5	524.4	552.1	10- 20	189.0	249.4	8.1,8.1
30	725.0	938.8	945.5	917.4	709.5	518.1	487.3	522.2	20- 30	326.9	576.3	18.7,18.7
40	816.1	1015	935.9	978.4	782.4	485.5	449.3	490.7	30- 40	461.8	1038	33.7,33.7
50	906.1	1027	790.8	975.4	854.1	447.3	412.6	449.2	40- 50	573.9	1612	52.4,52.4
60	996.9	867.5	481.9	784.5	948.2	377.3	325.6	377.7	50- 60	622.6	2235	72.6,72.6
70	1045	422.6	143.8	352.9	1014	166.9	125.8	181.0	60- 70	538.8	2773	90.1,90.1
80	395.6	51.42	23.98	44.19	283.7	29.01	20.35	34.03	70- 80	276.1	3049	99.1,99.1
90	0	0	0	0	0	0	0	0	80- 90	27.96	3077	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3077	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3077	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3077	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3077	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3077	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3077	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3077	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3077	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3077	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:2023-06-09

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

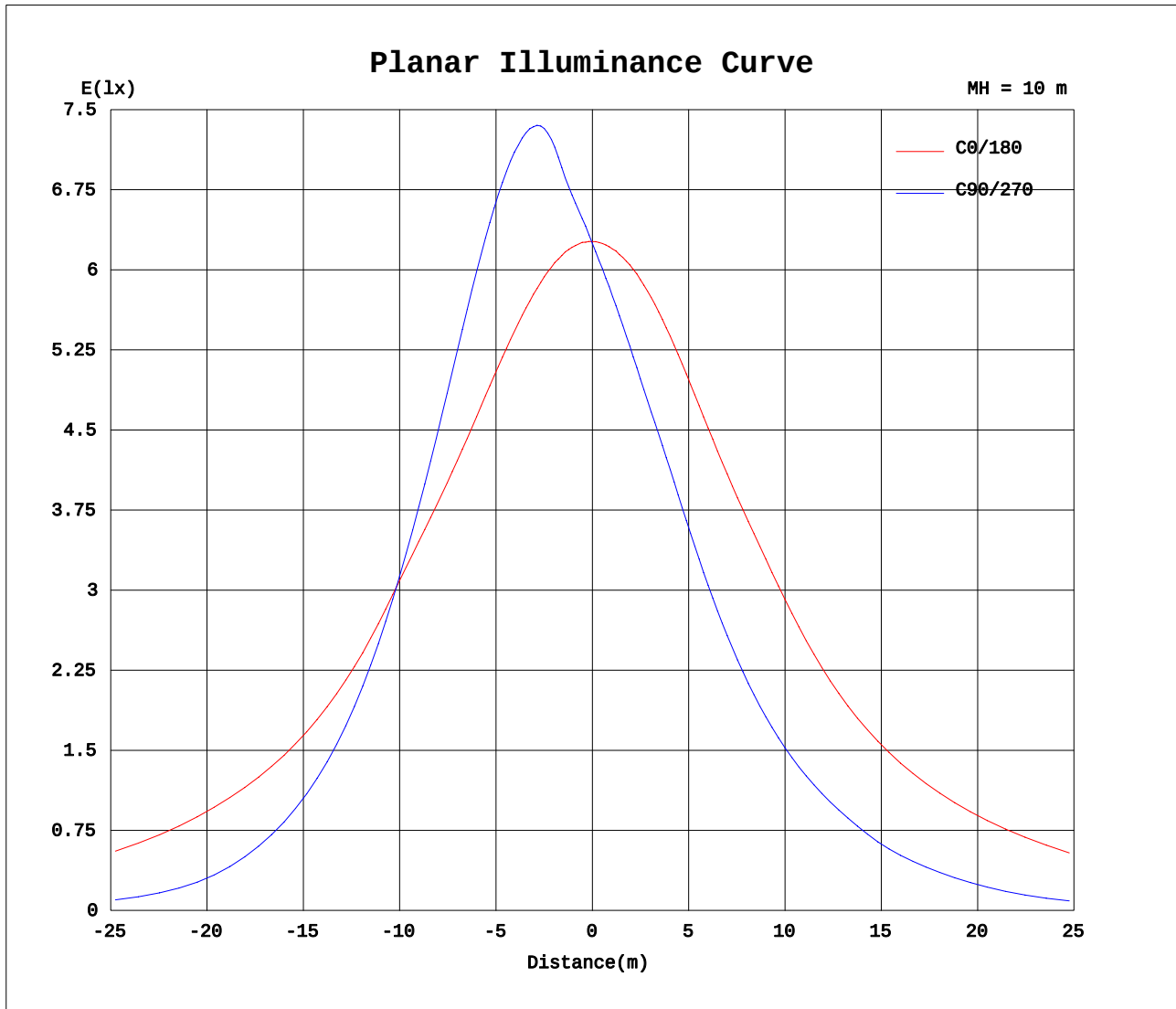
Test:U:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



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

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



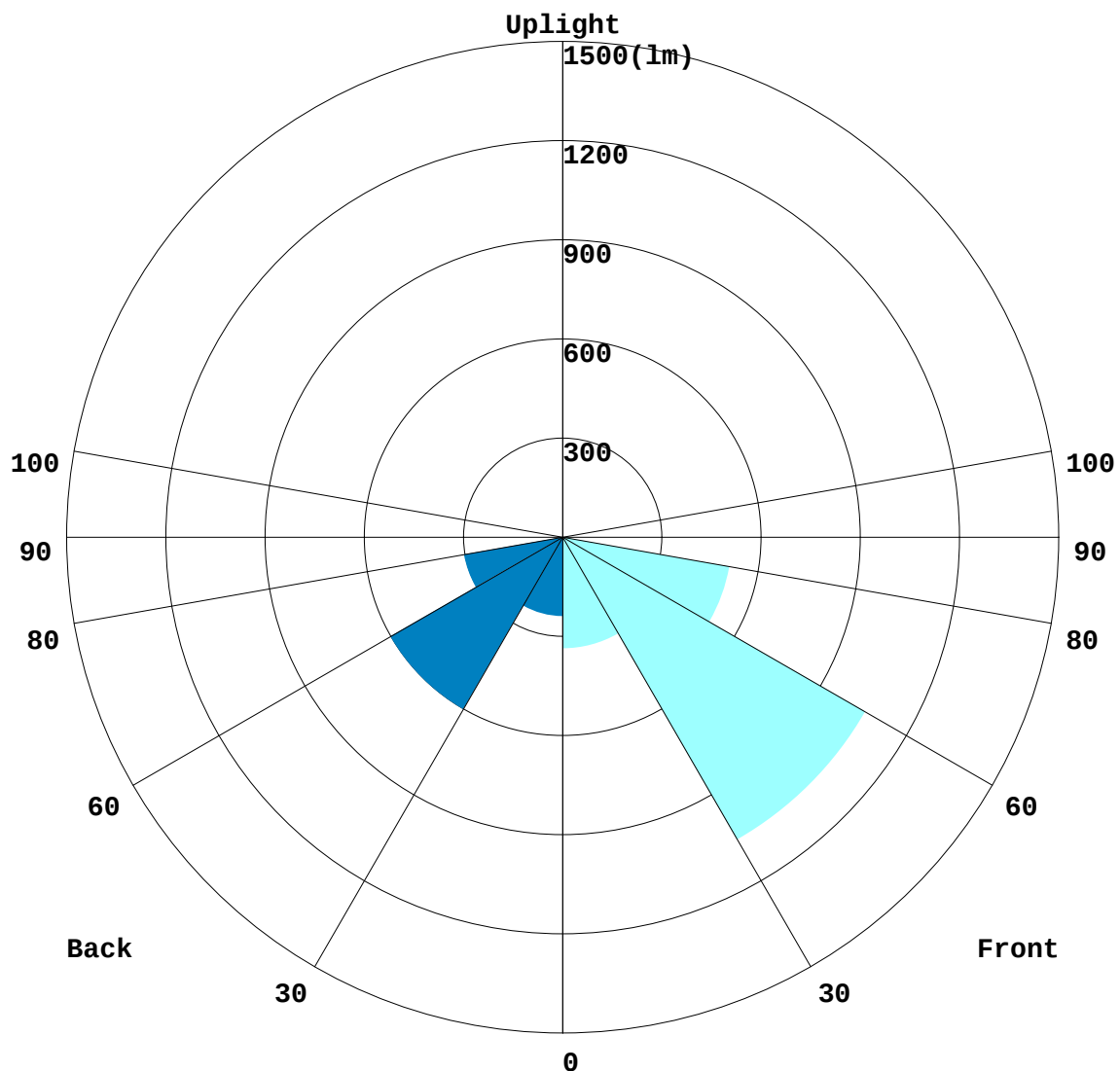
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-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:2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-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)	336.86	10.9
FM - Front-Medium(30-60)	1057	34.3
FH - Front-High(60-80)	512.29	16.6
FVH - Front-Very High(80-90)	19.747	0.6
Total Forward Light	1925.9	62.6

BL - Back-Low(0-30)	239.4	7.8
BM - Back-Medium(30-60)	601.26	19.5
BH - Back-High(60-80)	302.67	9.8
BVH - Back-Very High(80-90)	8.2113	0.3
Total Back Light	1151.5	37.4

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	1151.5	0	1151.5
Street Side	1925.9	0	1925.9

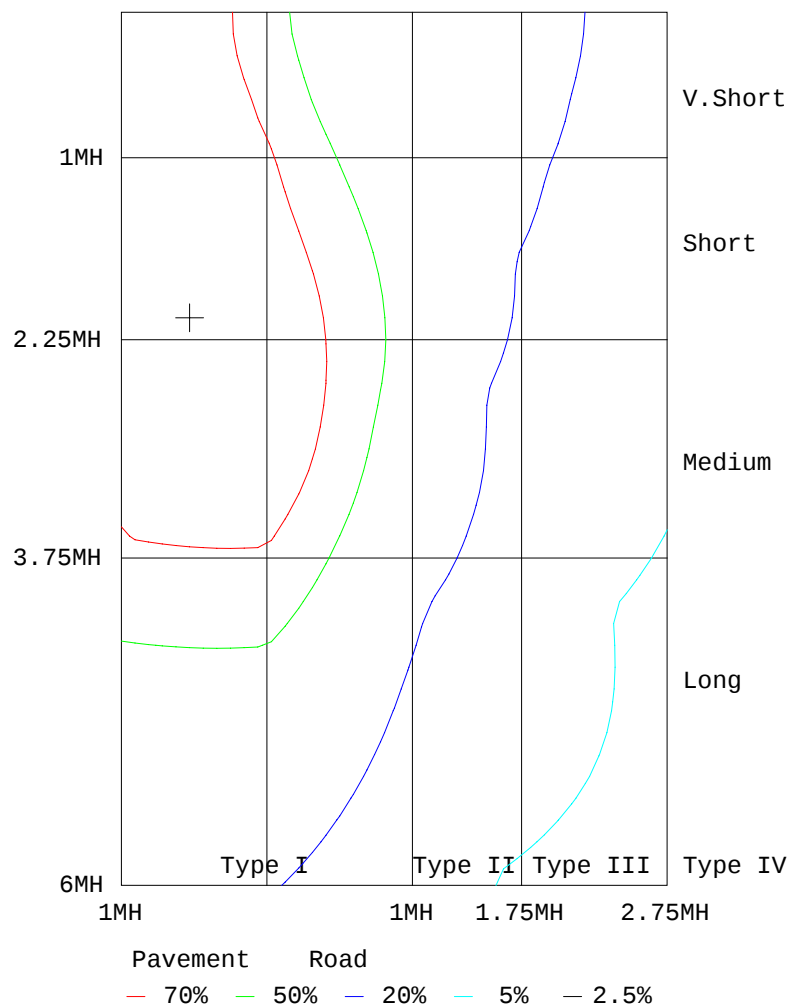
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-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:2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	WEIGHT:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-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	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624
5	628	638	648	657	664	668	670	668	663	657	648	637	627	616	608	600	595	591	591
10	637	658	681	701	721	732	738	732	719	700	679	657	635	614	596	581	571	565	563
15	651	685	727	767	797	810	815	809	793	764	724	684	648	615	587	566	551	543	541
20	670	722	789	833	859	870	871	865	852	825	781	718	665	617	579	549	533	526	524
25	694	772	849	889	910	916	915	909	897	875	835	764	685	621	569	534	516	509	506
30	725	828	904	939	951	952	945	941	934	917	883	814	709	626	559	518	499	490	487
35	764	885	956	982	982	967	954	954	957	951	924	860	741	633	550	502	480	471	468
40	816	942	1002	1015	992	959	936	942	962	978	960	903	782	642	542	486	460	450	449
45	871	990	1042	1034	977	919	885	899	939	989	996	943	821	653	536	468	439	431	431
50	906	1032	1074	1027	922	835	791	814	877	975	1028	985	854	666	526	447	417	411	413
55	945	1078	1092	981	812	700	656	681	757	918	1045	1037	894	681	513	420	388	379	379
60	997	1128	1072	867	639	527	482	509	588	785	1018	1098	948	699	485	377	329	320	326
65	1047	1163	972	667	428	316	281	300	376	581	897	1140	1008	692	424	287	245	234	239
70	1045	1128	748	423	196	160	144	152	173	353	651	1088	1014	596	290	167	137	125	126
75	870	916	455	166	86.0	78.6	73.1	73.6	79.2	123	376	795	769	334	121	72.2	63.6	57.8	56.5
80	396	446	190	51.4	38.2	30.7	24.0	27.9	34.4	44.2	122	301	284	84.3	34.3	29.0	28.3	21.2	20.4
85	40.0	52.1	20.9	10.4	8.77	6.59	4.50	5.76	6.80	6.51	10.2	17.9	13.6	4.76	4.27	3.99	5.31	4.04	4.29
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:2023-06-09

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:219.3V I:0.0986A P:20.12W PF:0.9300 Freq:60.01Hz Lamp Flux:3077.44x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-20WiLA-NVS-L3-00-3070-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	624	624	624	624	624														
5	592	595	601	608	617														
10	566	572	584	597	615														
15	544	552	568	588	616														
20	527	534	552	580	620														
25	510	518	537	572	626														
30	491	501	522	564	635														
35	472	482	508	558	649														
40	452	463	491	554	667														
45	433	441	471	546	686														
50	414	419	449	535	700														
55	383	390	419	518	710														
60	325	335	378	485	716														
65	240	254	294	422	702														
70	131	147	181	304	614														
75	59.5	68.1	82.2	143	388														
80	22.3	30.9	34.0	45.0	124														
85	4.50	6.82	6.23	7.40	9.49														
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:2023-06-09

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: