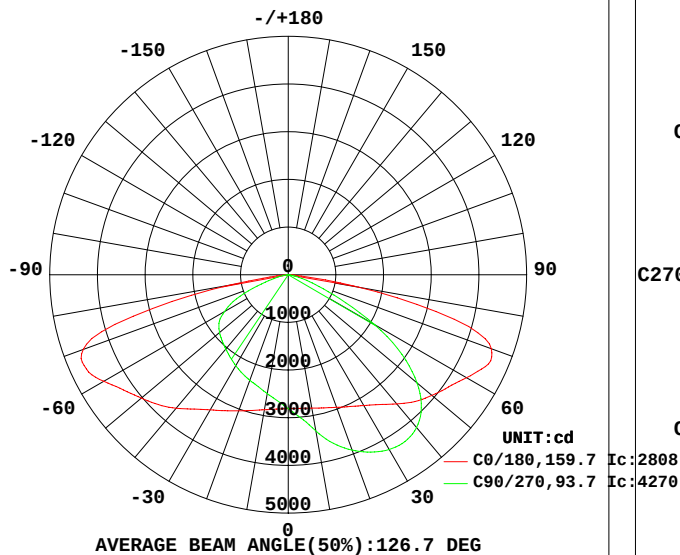
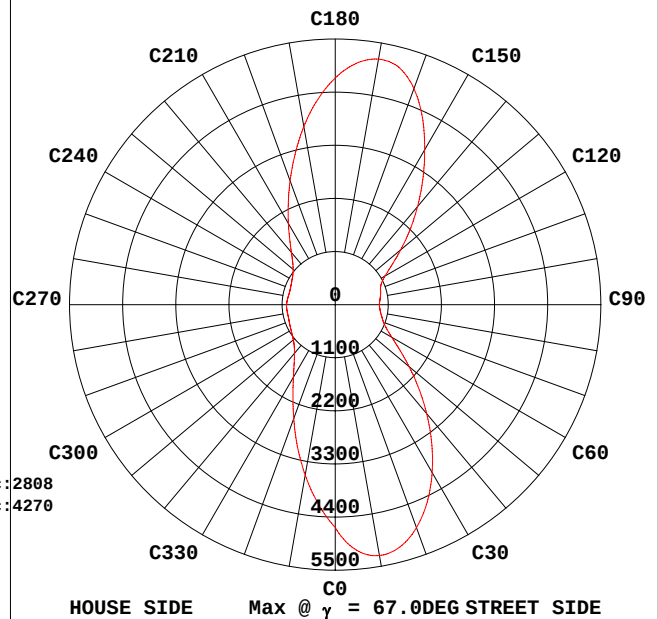


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.3V I:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90W iLA-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: 155.94 lm/W			
MODEL	3030	I _{max} (cd)	5190	η street_up(%)	0.0
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	61.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	13870	η house_up(%)	0.0
NOMINAL FLUX(lm)	13869.9	MAXIMUM @(C,γ)	15,67.0	η house_down(%)	38.4
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	22.174

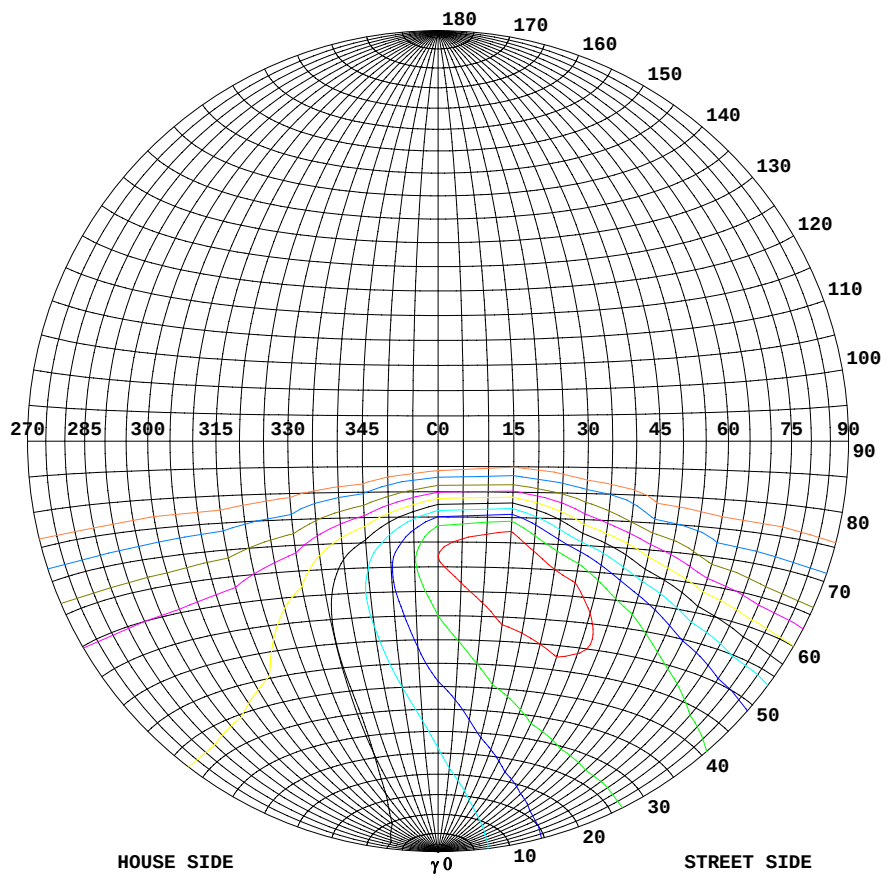
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light Weight:3.6kg
SPEC.:AOK-90WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



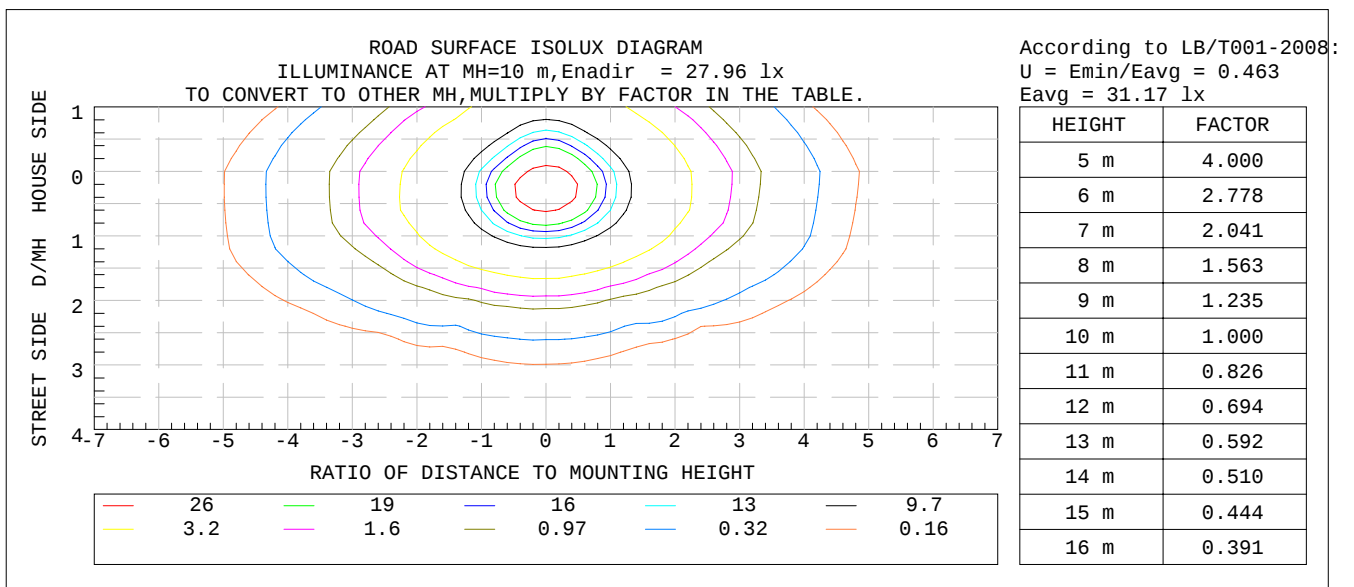
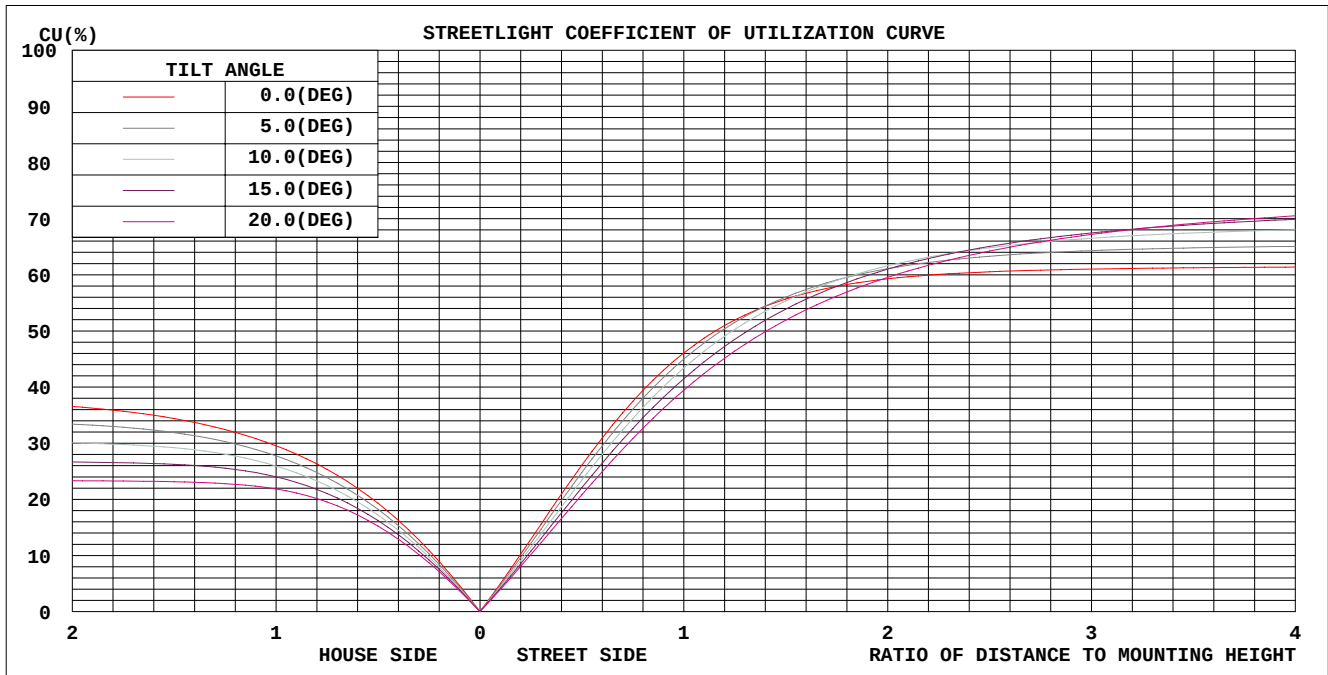
Classification:

IES:Type II - Medium
CIE:Narrow - Intermediate
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:117.1cd/klm
Max.At90:0cd/klm
Max.80-90:117.1cd/klm
NRB 5101:Limited[8.7%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5190
90%	4671
80%	4152
70%	3633
60%	3114
50%	2595
40%	2076
30%	1557
20%	1038
10%	519
5%	260

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-15

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: 2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

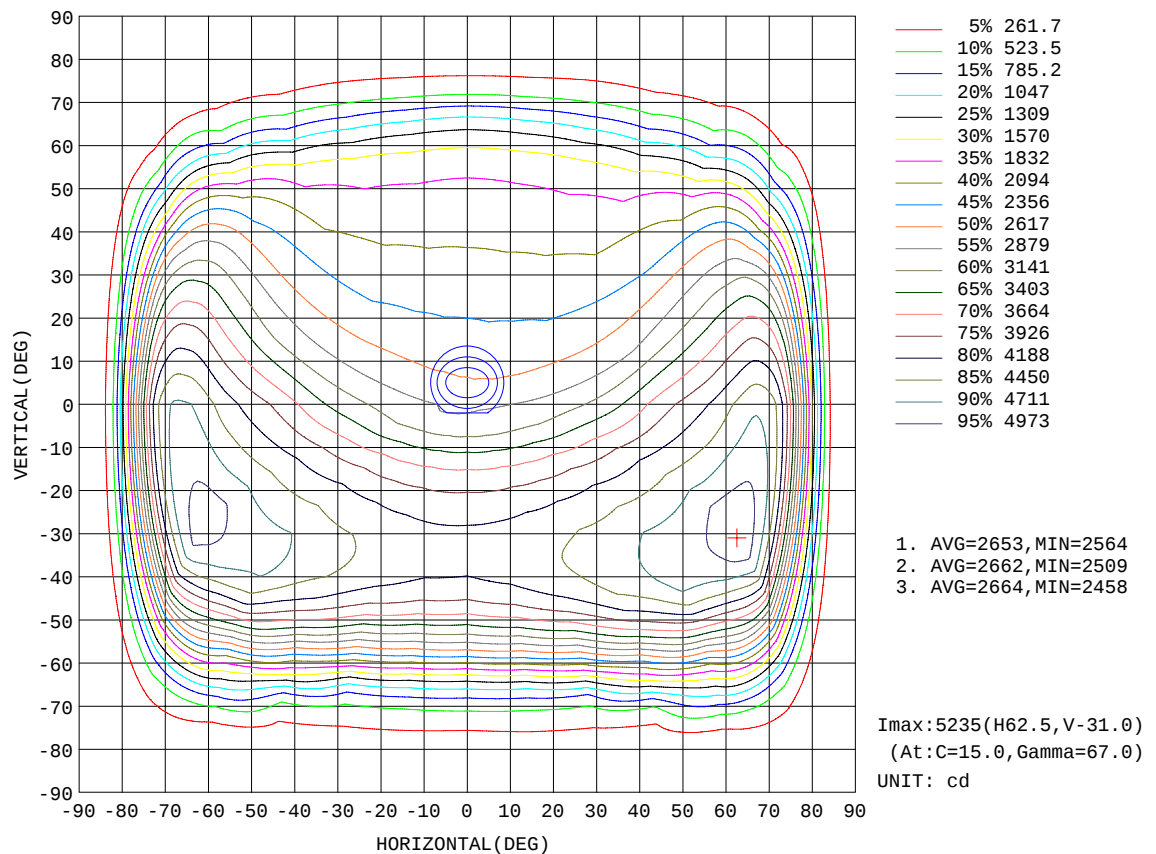
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
10	2842	3141	3326	3169	2876	2627	2533	2606	0- 10	271.8	271.8	1.96,1.96
20	2960	3713	3912	3747	3037	2501	2357	2462	10- 20	850.2	1122	8.09,8.09
30	3168	4162	4232	4193	3272	2375	2202	2321	20- 30	1471	2593	18.7,18.7
40	3535	4485	4186	4495	3654	2245	2036	2179	30- 40	2079	4672	33.7,33.7
50	3936	4566	3526	4478	4023	2096	1882	2009	40- 50	2588	7260	52.3,52.3
60	4320	3856	2085	3567	4469	1813	1545	1721	50- 60	2827	10087	72.7,72.7
70	4531	1786	606.8	1555	4571	881.4	697.8	883.3	60- 70	2455	12542	90.4,90.4
80	1494	189.4	97.98	170.0	1210	151.8	122.2	161.9	70- 80	1210	13751	99.1,99.1
90	0	0	0	0	0	0	0	0	80- 90	118.4	13870	100,100
100	0	0	0	0	0	0	0	0	90-100	0	13870	100,100
110	0	0	0	0	0	0	0	0	100-110	0	13870	100,100
120	0	0	0	0	0	0	0	0	110-120	0	13870	100,100
130	0	0	0	0	0	0	0	0	120-130	0	13870	100,100
140	0	0	0	0	0	0	0	0	130-140	0	13870	100,100
150	0	0	0	0	0	0	0	0	140-150	0	13870	100,100
160	0	0	0	0	0	0	0	0	150-160	0	13870	100,100
170	0	0	0	0	0	0	0	0	160-170	0	13870	100,100
180	0	0	0	0	0	0	0	0	170-180	0	13870	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:2023-06-15

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

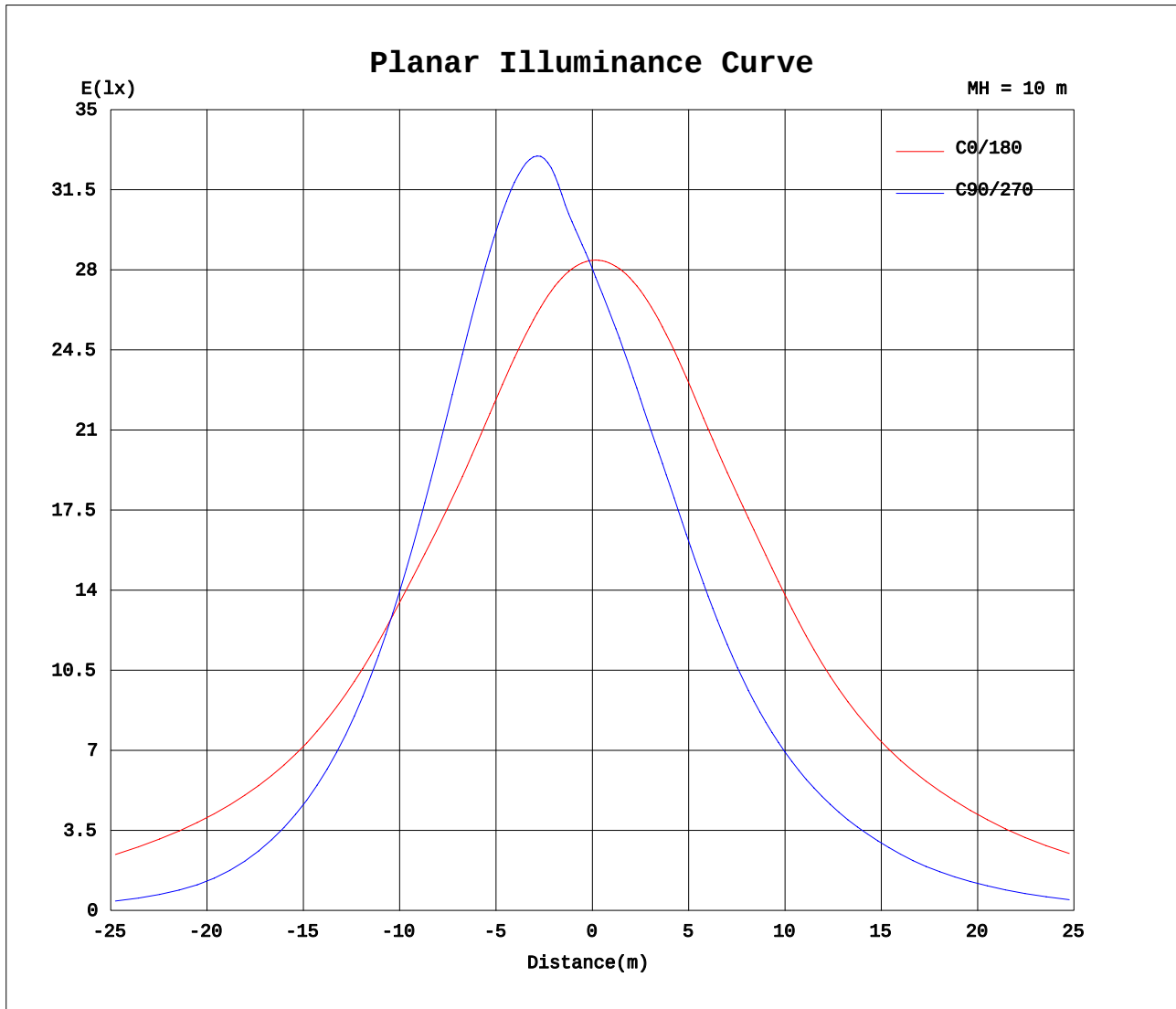
Test:U:219.3V I:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90W iLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-15

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



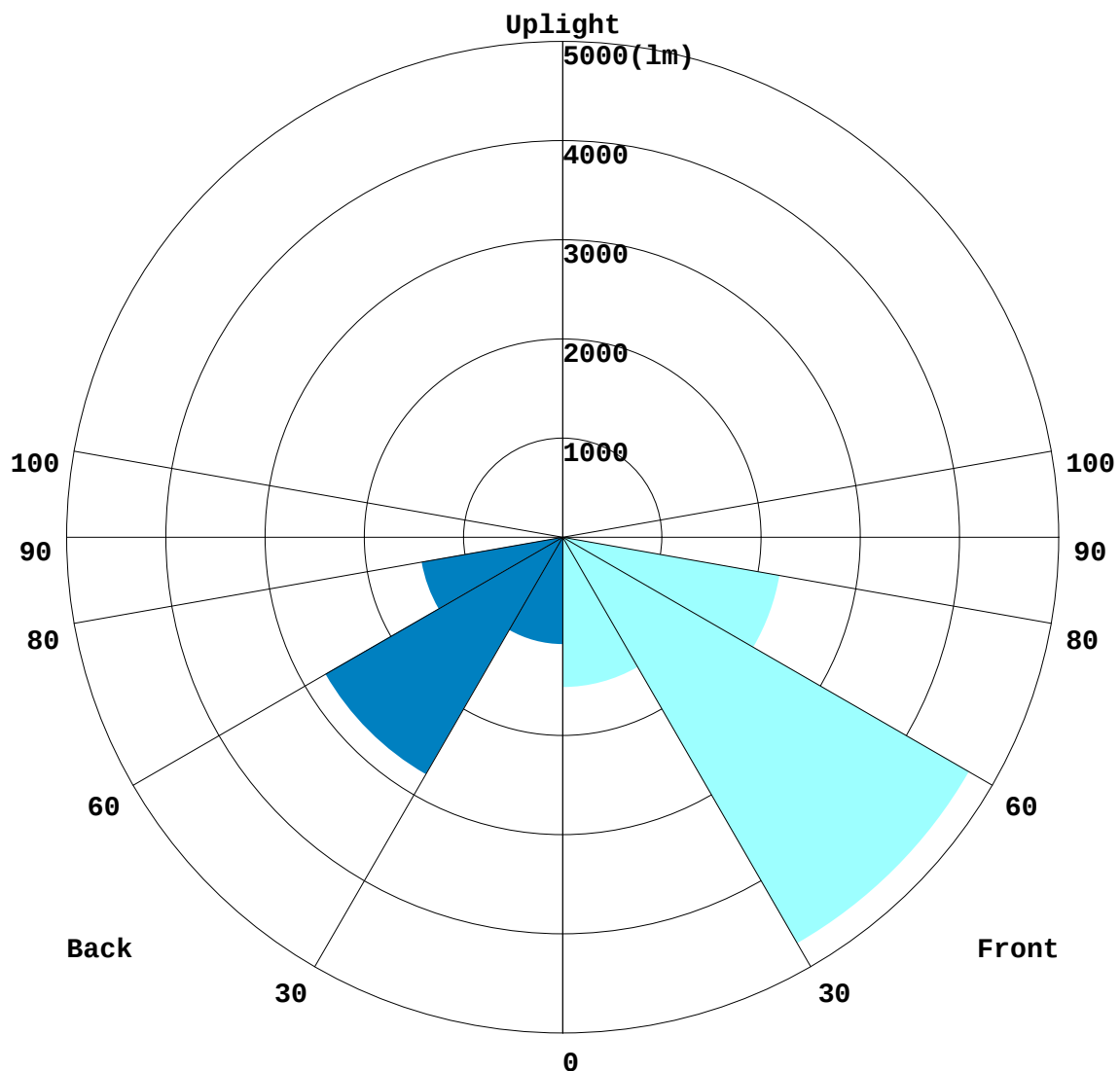
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90WiLA-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:2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90WiLA-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)	1513.1	10.9
FM - Front-Medium(30-60)	4731.9	34.1
FH - Front-High(60-80)	2220.7	16.0
FVH - Front-Very High(80-90)	74.649	0.5
Total Forward Light	8540.3	61.6

BL - Back-Low(0-30)	1080	7.8
BM - Back-Medium(30-60)	2761.7	19.9
BH - Back-High(60-80)	1444.1	10.4
BVH - Back-Very High(80-90)	43.733	0.3
Total Back Light	5329.5	38.4

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	B3-U0-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5329.5	0	5329.5
Street Side	8540.3	0	8540.3

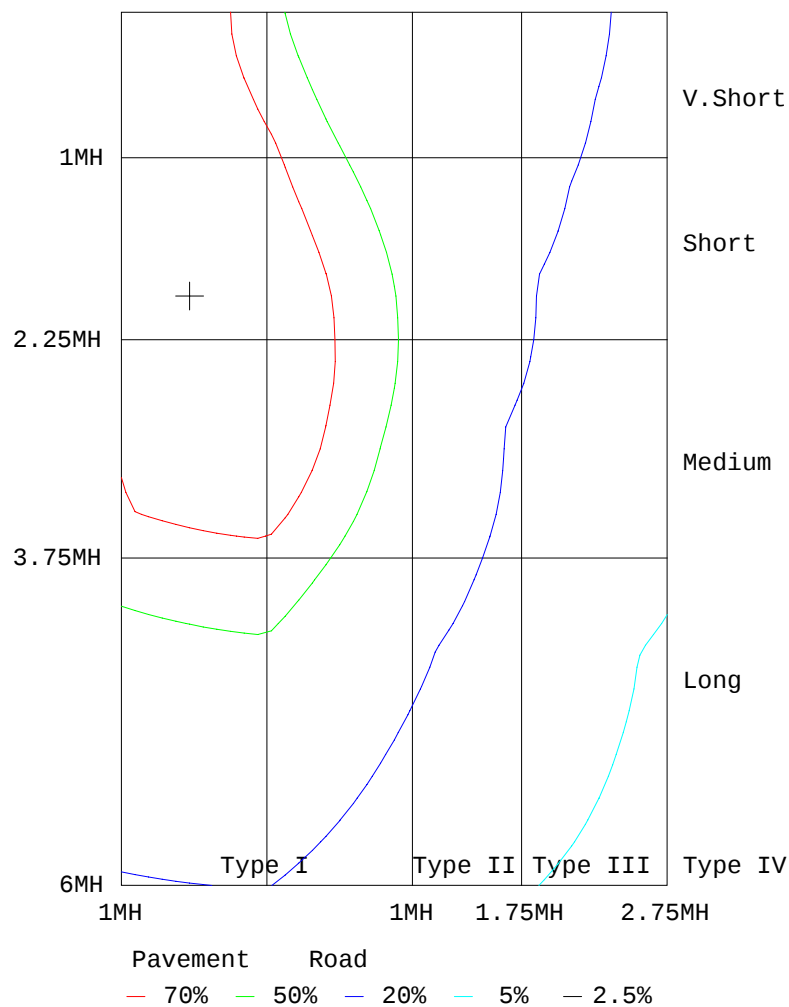
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Light:3.6kg
SPEC.:AOK-90WILA-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:2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	WEIGHT:3.6kg
SPEC.:AOK-90WiLA-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	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808	2808
5	2813	2859	2905	2947	2981	3004	3014	3009	2991	2961	2923	2877	2828	2782	2738	2703	2675	2660	2651
10	2842	2941	3043	3141	3238	3298	3326	3305	3256	3169	3078	2979	2876	2780	2693	2627	2579	2546	2533
15	2891	3052	3249	3434	3566	3636	3661	3644	3583	3467	3298	3112	2947	2795	2663	2563	2493	2448	2431
20	2960	3207	3508	3713	3833	3896	3912	3901	3851	3747	3566	3290	3037	2821	2640	2501	2413	2371	2357
25	3051	3421	3757	3951	4053	4098	4105	4099	4066	3986	3820	3517	3146	2854	2614	2438	2342	2297	2282
30	3168	3647	3984	4162	4232	4244	4232	4239	4234	4193	4054	3749	3272	2894	2586	2375	2269	2219	2202
35	3324	3867	4191	4341	4357	4313	4270	4298	4344	4365	4262	3975	3440	2942	2565	2312	2188	2134	2118
40	3535	4084	4374	4485	4408	4276	4186	4242	4369	4495	4446	4186	3654	3002	2546	2245	2104	2049	2036
45	3762	4281	4550	4574	4341	4090	3948	4036	4264	4549	4619	4386	3853	3079	2532	2176	2015	1966	1961
50	3936	4481	4718	4566	4097	3710	3526	3636	3961	4478	4773	4597	4023	3174	2514	2096	1920	1877	1882
55	4104	4703	4846	4370	3589	3093	2909	3021	3400	4194	4846	4836	4217	3291	2478	1989	1798	1762	1774
60	4320	4957	4798	3856	2794	2292	2085	2222	2608	3567	4694	5076	4469	3379	2382	1813	1608	1529	1545
65	4560	5169	4376	2901	1823	1321	1189	1277	1622	2608	4135	5180	4672	3334	2134	1479	1225	1166	1201
70	4531	4970	3273	1786	792	661	607	641	735	1555	2912	4760	4571	2896	1529	881	727	681	698
75	3605	3873	1817	629	351	328	302	314	337	506	1578	3339	3364	1725	649	381	335	313	316
80	1494	1625	666	189	148	114	98.0	107	139	170	480	1188	1210	410	178	152	154	127	122
85	151	244	93.3	32.1	24.6	19.8	16.9	19.0	21.8	27.1	74.7	121	94.1	44.4	42.4	34.8	40.7	31.8	32.8
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:2023-06-15

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:0.4155A P:88.94W PF:0.9759 Freq:60.01Hz Lamp Flux:13869.9x1 lm		
NAME: AOK iLA	TYPE:iLA series LED Street Light	Weight:3.6kg
SPEC.:AOK-90WiLA-NVS-L3-00-3070-T231-P	DIM.: 540*230*65mm	SERIAL No.:
MFR.: AOK	SUR.:190*175mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	2808	2808	2808	2808	2808													
5	2655	2668	2692	2724	2766													
10	2538	2564	2606	2668	2748													
15	2438	2473	2533	2624	2746													
20	2362	2392	2462	2586	2751													
25	2288	2320	2392	2545	2766													
30	2210	2244	2321	2503	2792													
35	2124	2160	2252	2466	2837													
40	2042	2075	2179	2435	2905													
45	1964	1988	2097	2408	2996													
50	1881	1897	2009	2370	3087													
55	1772	1781	1890	2303	3167													
60	1544	1600	1721	2169	3207													
65	1190	1240	1411	1910	3125													
70	700	757	883	1385	2702													
75	319	351	405	640	1670													
80	127	157	162	217	472													
85	32.9	42.6	38.9	49.1	62.1													
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:2023-06-15

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: