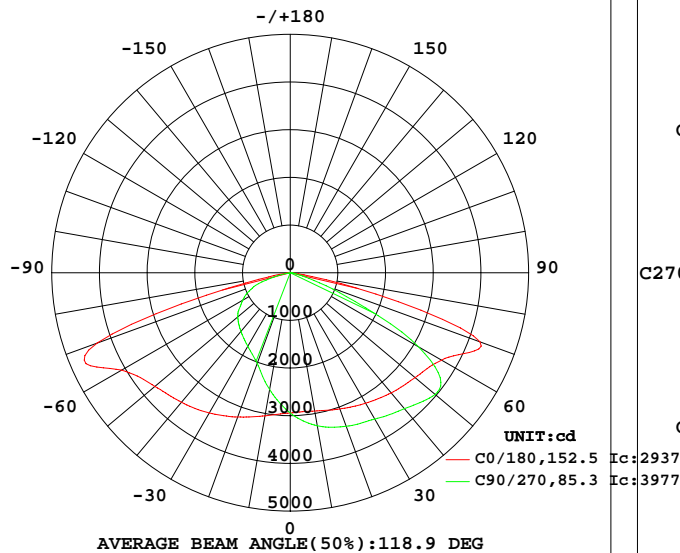
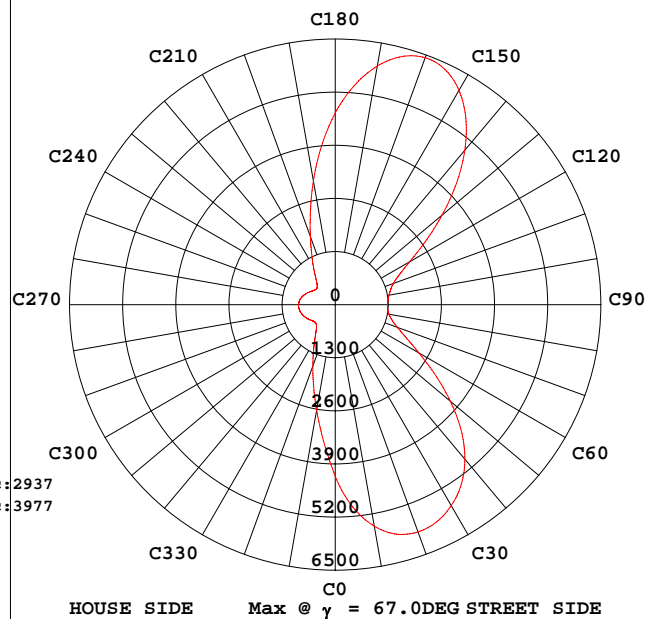


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.3V I:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.03 lm/W			
MODEL	3030	Imax(cd)	6286	η street_up(%)	0.0
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	66.2
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	12955	η house_up(%)	0.0
NOMINAL FLUX(lm)	12955.1	MAXIMUM @(C, γ)	165,67.0	η house_down(%)	33.8
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	20.309

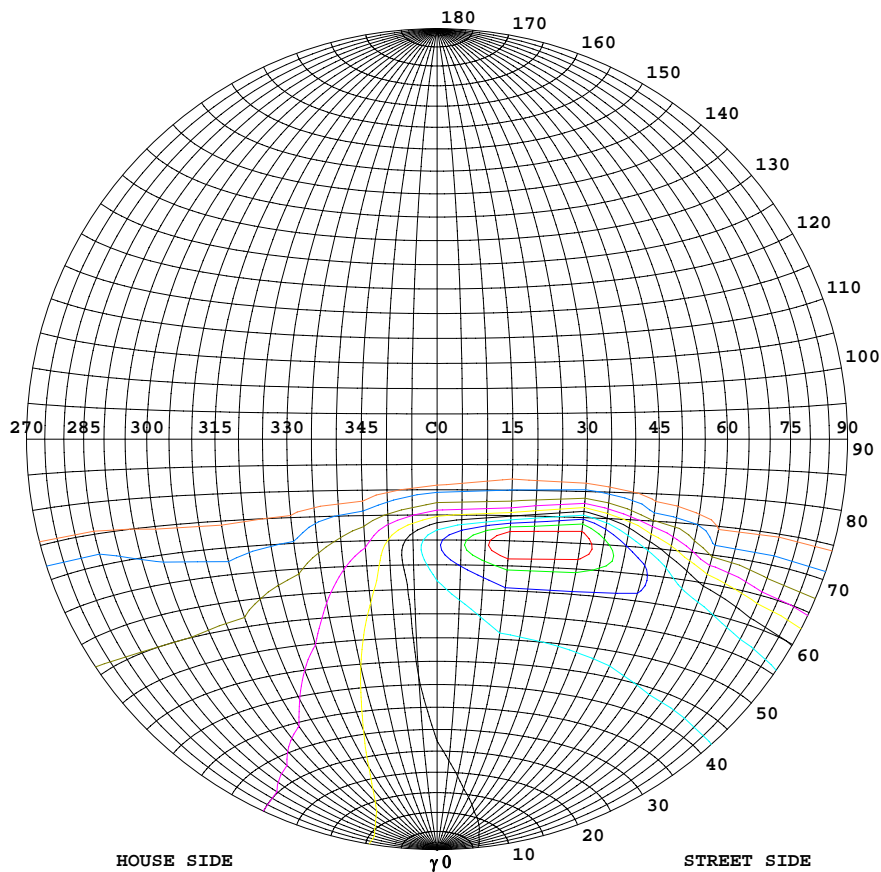
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-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:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:



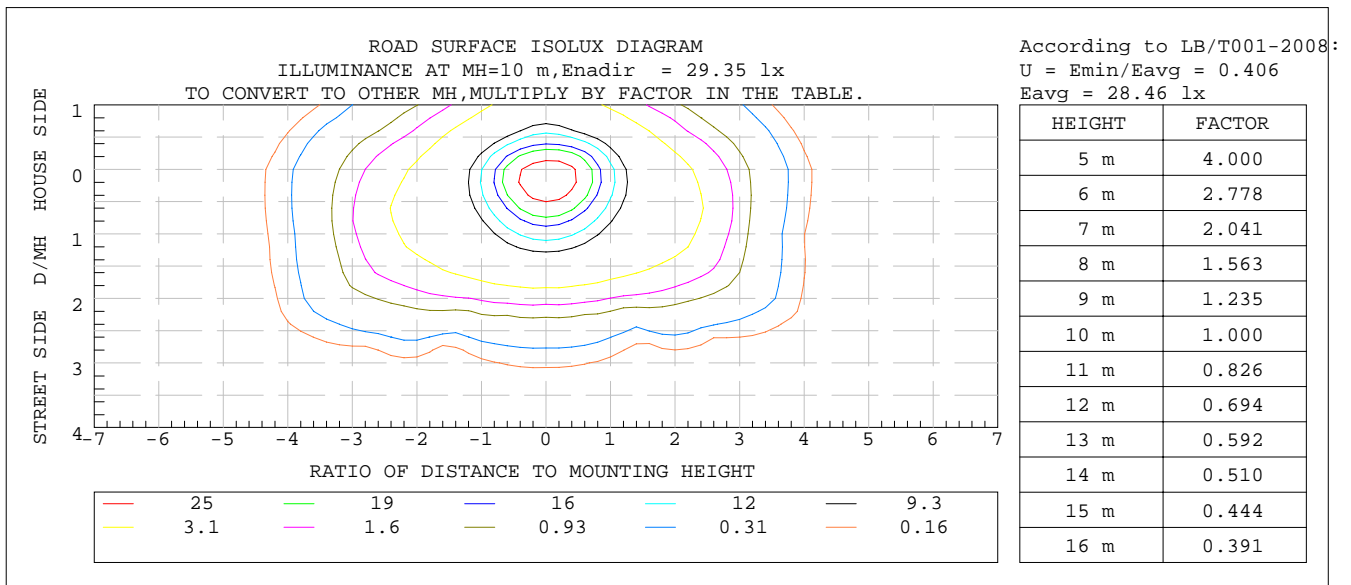
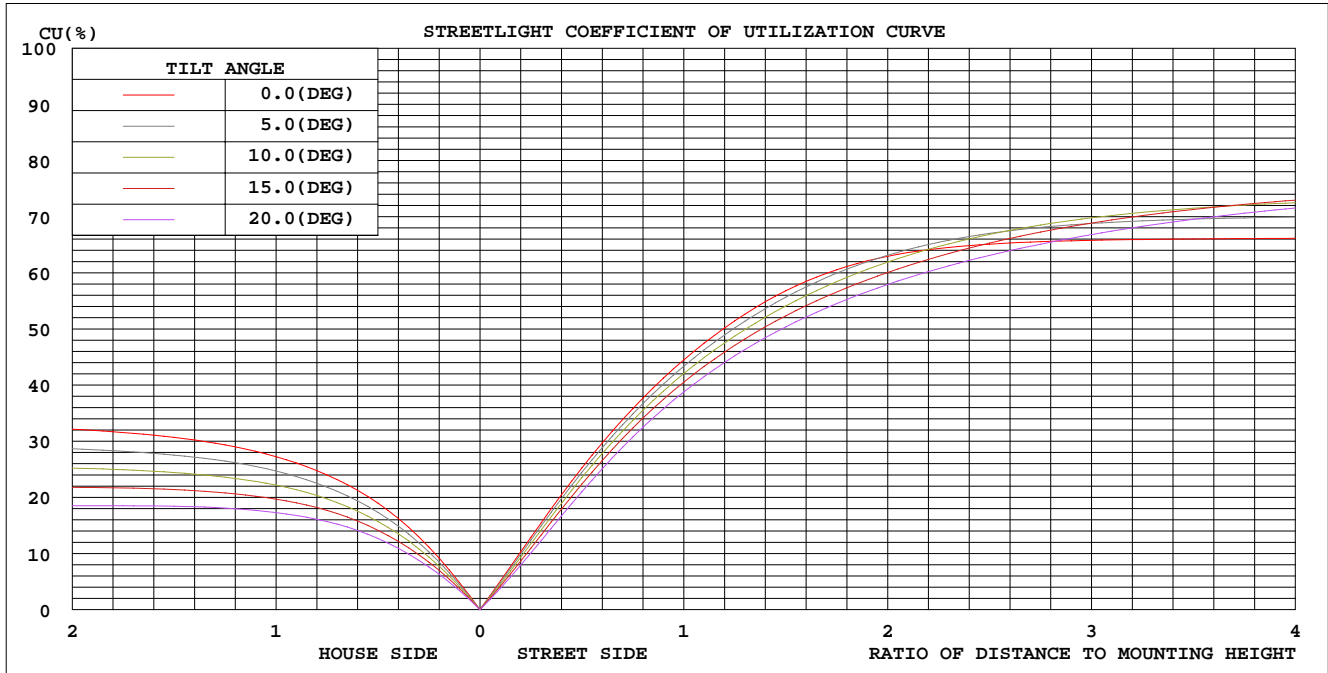
Classification:

IES:Type III - Medium
CIE:Broad - Intermediate
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:56.76cd/klm
Max.At90:0cd/klm
Max.80-90:56.76cd/klm
NRB 5101:Limited[3.4%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6286
90%	5657
80%	5029
70%	4400
60%	3772
50%	3143
40%	2514
30%	1886
20%	1257
10%	629
5%	314

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-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: 2023-06-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-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:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

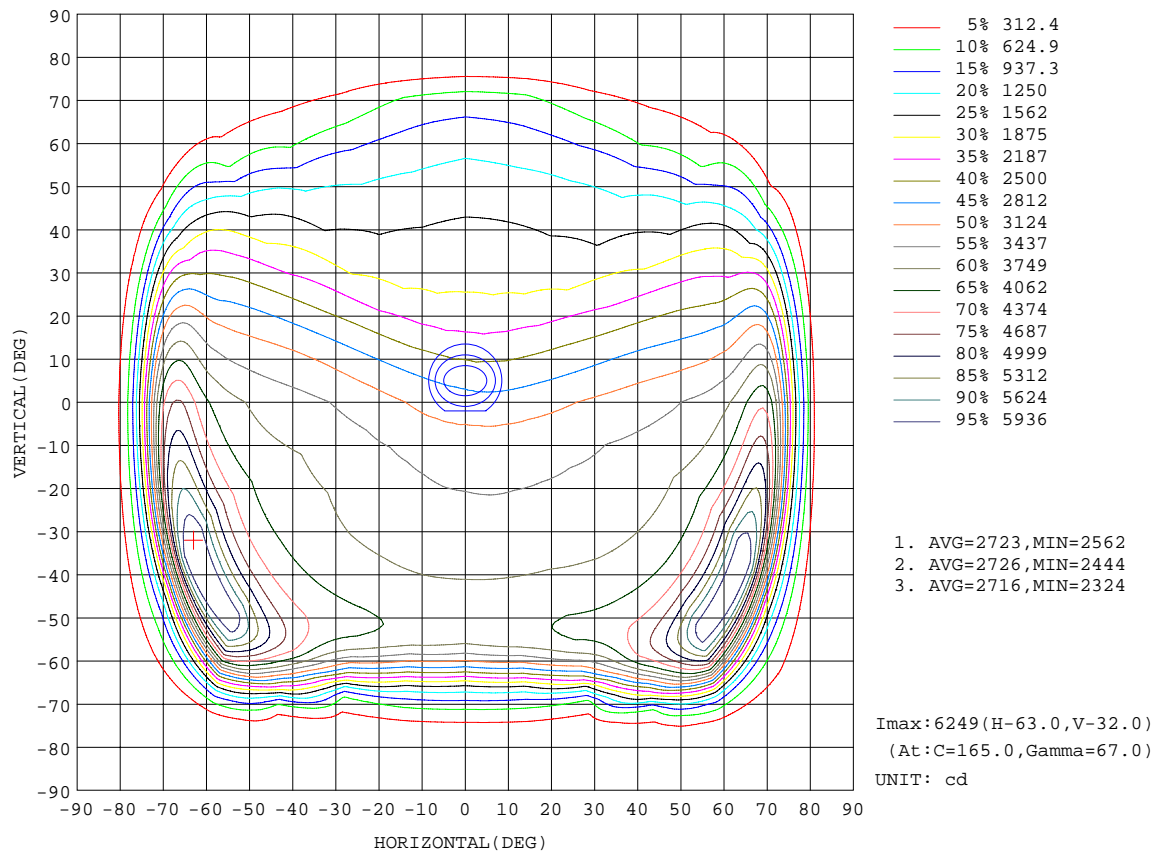
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2945	3164	3258	3241	3047	2692	2490	2612	0- 10	280.1	280.1	2.16,2.16
20	3039	3350	3426	3466	3220	2438	2025	2320	10- 20	827.7	1108	8.55,8.55
30	3161	3491	3544	3624	3395	2145	1782	2024	20- 30	1343	2451	18.9,18.9
40	3291	3622	3723	3771	3548	1839	1608	1729	30- 40	1821	4272	33,33
50	3420	3837	3968	4009	3707	1548	1437	1467	40- 50	2253	6525	50.4,50.4
60	3666	4304	3100	4466	4086	1158	1151	1139	50- 60	2608	9134	70.5,70.5
70	4233	3599	802.4	3267	4304	472.0	777.7	490.9	60- 70	2615	11749	90.7,90.7
80	470.2	162.9	100.5	131.7	347.2	81.70	41.52	100.6	70- 80	1151	12900	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	54.97	12955	100,100
100	0	0	0	0	0	0	0	0	90-100	0	12955	100,100
110	0	0	0	0	0	0	0	0	100-110	0	12955	100,100
120	0	0	0	0	0	0	0	0	110-120	0	12955	100,100
130	0	0	0	0	0	0	0	0	120-130	0	12955	100,100
140	0	0	0	0	0	0	0	0	130-140	0	12955	100,100
150	0	0	0	0	0	0	0	0	140-150	0	12955	100,100
160	0	0	0	0	0	0	0	0	150-160	0	12955	100,100
170	0	0	0	0	0	0	0	0	160-170	0	12955	100,100
180	0	0	0	0	0	0	0	0	170-180	0	12955	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:2023-06-08

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

ISOCANDELA DIAGRAM

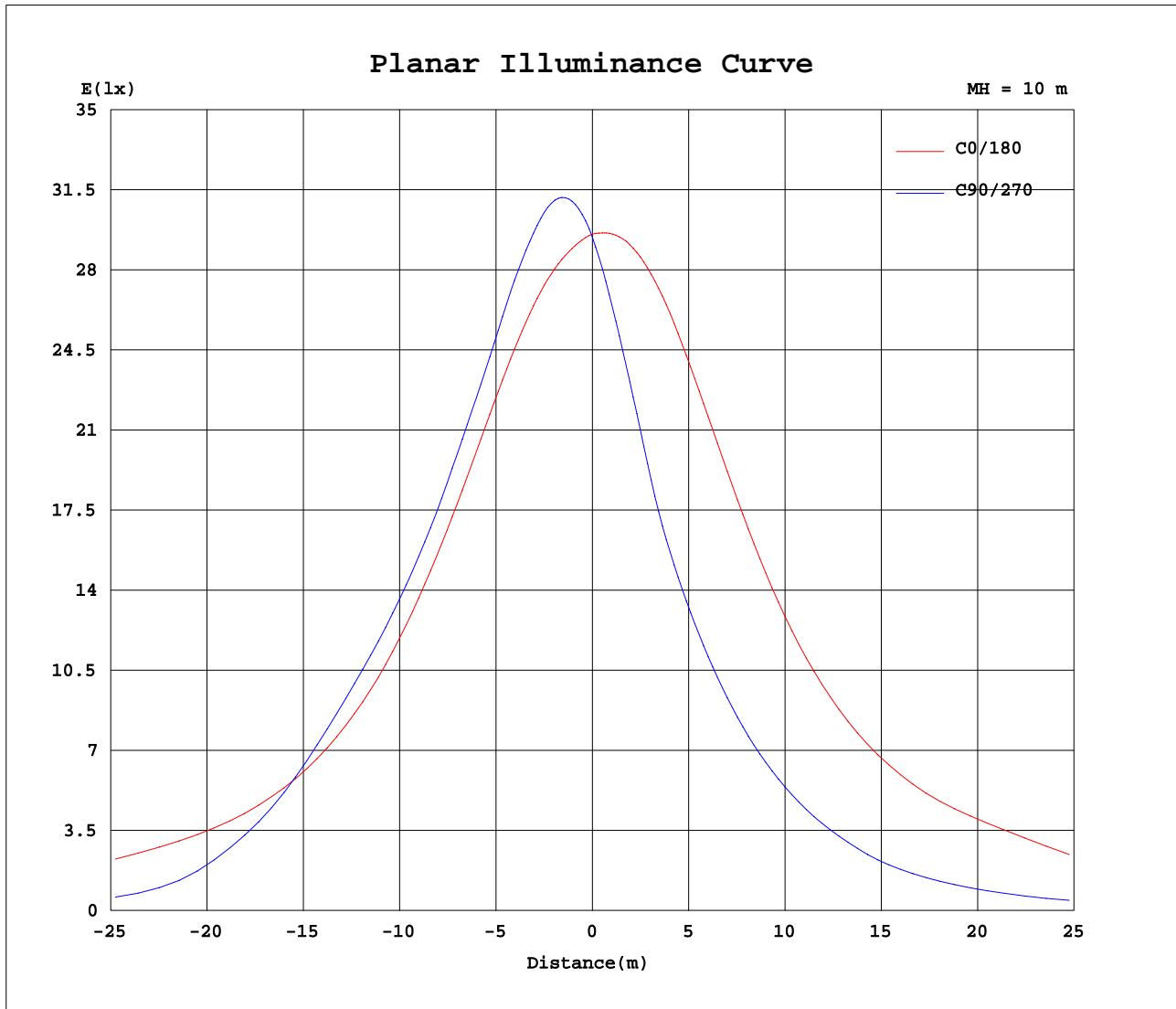
Test:U:219.3V I:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-08

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

Planar Illuminance Curve



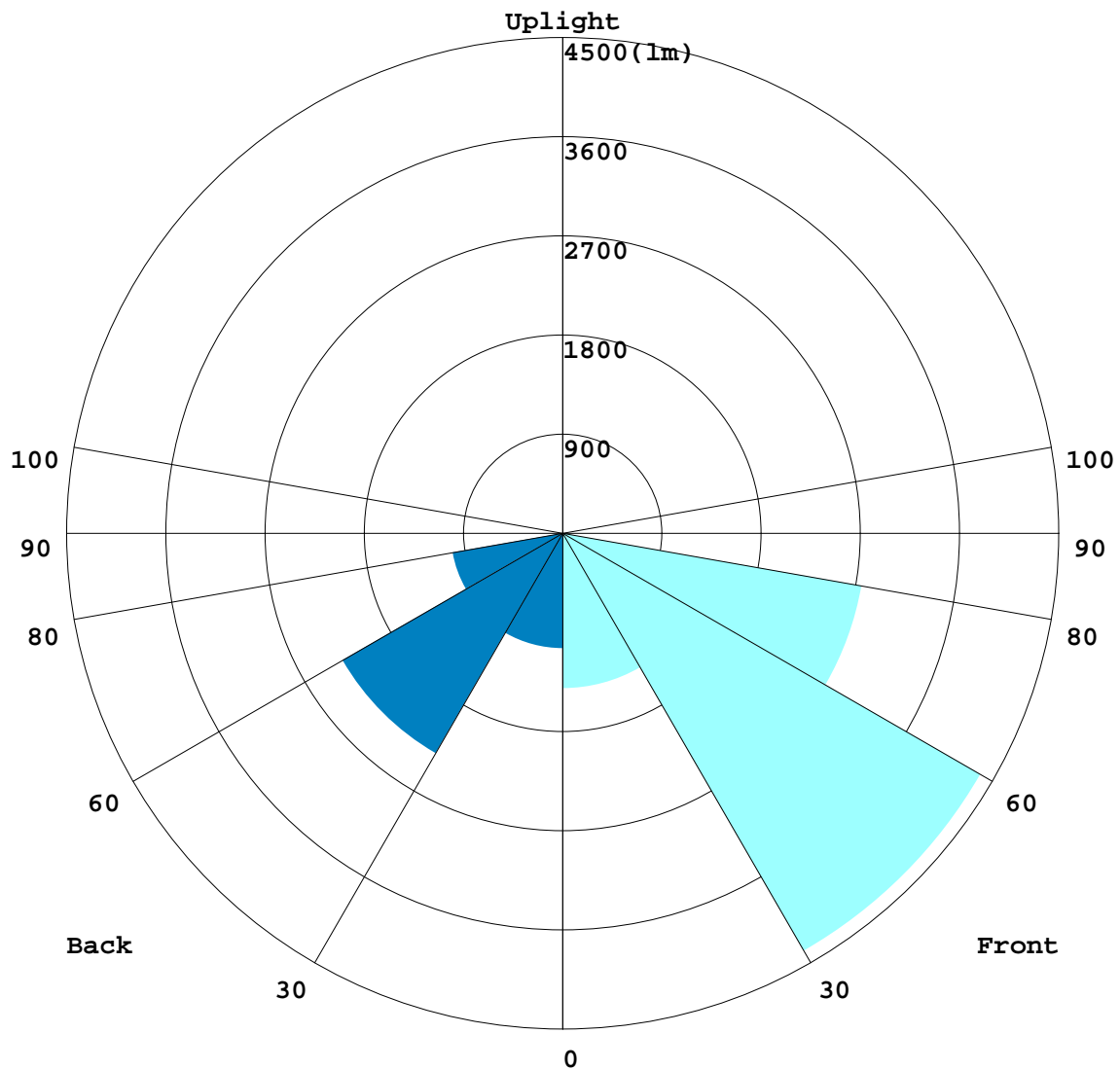
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-06-08

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

LCS REPORT

Test:U:219.3V I:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-08

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

BUG REPORT

Test:U:219.3V I:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1407.5	10.9
FM - Front-Medium(30-60)	4377	33.8
FH - Front-High(60-80)	2753.4	21.3
FVH - Front-Very High(80-90)	39.048	0.3
Total Forward Light	8577	66.2

BL - Back-Low(0-30)	1043.7	8.1
BM - Back-Medium(30-60)	2305.6	17.8
BH - Back-High(60-80)	1013	7.8
BVH - Back-Very High(80-90)	15.926	0.1
Total Back Light	4378.1	33.8

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	4378.1	0	4378.1
Street Side	8577	0	8577

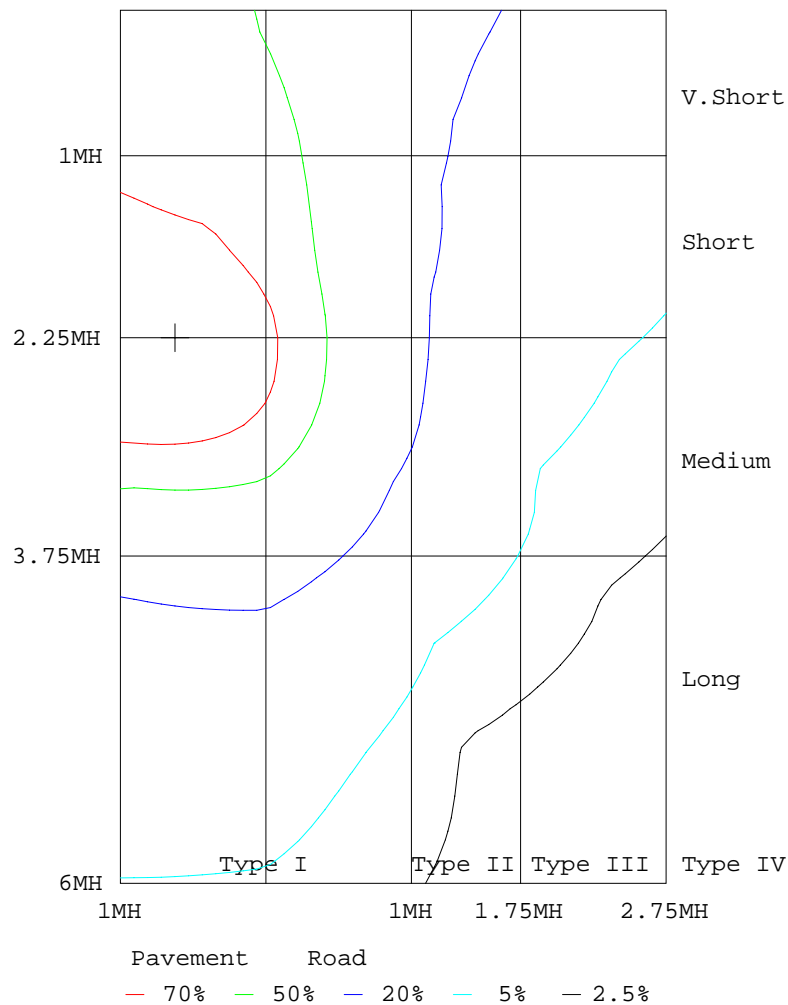
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-06-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-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:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-06-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-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:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	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	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942	2942
5	2926	2975	3020	3057	3085	3109	3120	3122	3112	3096	3070	3031	2979	2926	2868	2814	2769	2736	2722
10	2945	3035	3107	3164	3205	3240	3258	3266	3258	3241	3200	3139	3047	2939	2814	2692	2593	2515	2490
15	2987	3110	3202	3266	3304	3334	3355	3370	3372	3365	3327	3255	3129	2966	2767	2569	2405	2287	2249
20	3039	3191	3293	3350	3379	3407	3426	3445	3454	3466	3445	3371	3220	3000	2720	2438	2208	2062	2025
25	3099	3275	3374	3425	3452	3470	3484	3508	3529	3546	3543	3483	3308	3031	2668	2295	2023	1901	1886
30	3161	3359	3447	3491	3513	3528	3544	3565	3589	3624	3633	3588	3395	3059	2606	2145	1862	1785	1782
35	3223	3443	3517	3549	3589	3621	3633	3655	3665	3688	3721	3687	3475	3080	2524	1988	1731	1683	1692
40	3291	3522	3585	3622	3687	3712	3723	3739	3754	3771	3801	3776	3548	3082	2422	1839	1620	1591	1608
45	3352	3607	3663	3721	3791	3839	3851	3862	3855	3878	3890	3867	3617	3059	2295	1696	1510	1492	1528
50	3420	3717	3771	3837	3937	3980	3968	3996	4002	4009	4018	4000	3707	3009	2133	1548	1382	1376	1437
55	3505	3910	3954	4035	4097	3974	3839	3954	4138	4209	4248	4262	3836	2923	1926	1377	1229	1224	1300
60	3666	4308	4321	4304	3968	3364	3100	3302	3890	4466	4705	4837	4086	2767	1664	1158	1022	1052	1151
65	4016	5224	5173	4511	2987	2080	1751	2003	2786	4498	5672	5963	4621	2524	1300	769	783	908	992
70	4233	6136	6040	3599	1147	859	802	848	898	3267	5894	5965	4304	1905	669	472	495	698	778
75	2350	3027	4144	1293	282	289	266	279	270	817	3241	1960	1820	800	298	253	262	315	355
80	470	632	735	163	113	105	101	99.6	107	132	446	395	347	131	97.2	81.7	77.5	50.5	41.5
85	46.1	67.6	60.0	34.7	28.2	28.1	25.7	27.1	25.6	30.0	41.9	42.8	32.7	25.8	22.2	15.0	8.77	3.80	1.09
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:2023-06-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-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:0.4097A P:88.11W PF:0.9805 Freq:60.01Hz Lamp Flux:12955.1x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-90WiL02-NVS-L3-00-3070-T311-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	2942	2942	2942	2942	2942														
5	2721	2739	2771	2817	2871														
10	2488	2535	2612	2715	2832														
15	2255	2336	2464	2635	2818														
20	2042	2145	2320	2560	2813														
25	1896	1978	2178	2487	2812														
30	1787	1836	2024	2398	2812														
35	1694	1717	1871	2291	2809														
40	1612	1614	1729	2173	2791														
45	1526	1517	1598	2039	2753														
50	1414	1403	1467	1885	2686														
55	1268	1261	1320	1701	2590														
60	1092	1060	1139	1484	2438														
65	935	842	811	1187	2194														
70	734	552	491	667	1708														
75	352	290	285	335	823														
80	51.1	88.8	101	120	150														
85	3.63	9.70	18.7	28.4	34.0														
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:2023-06-08

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