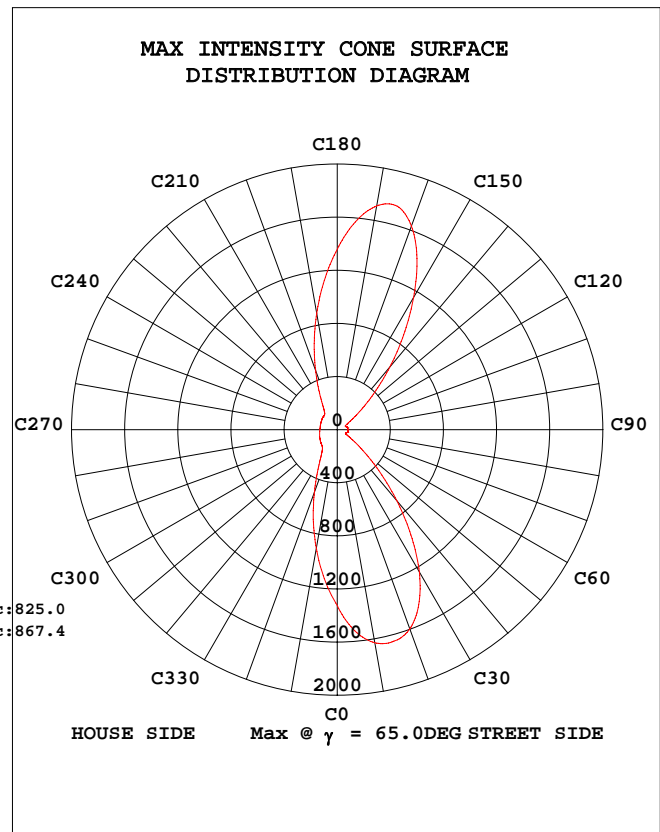
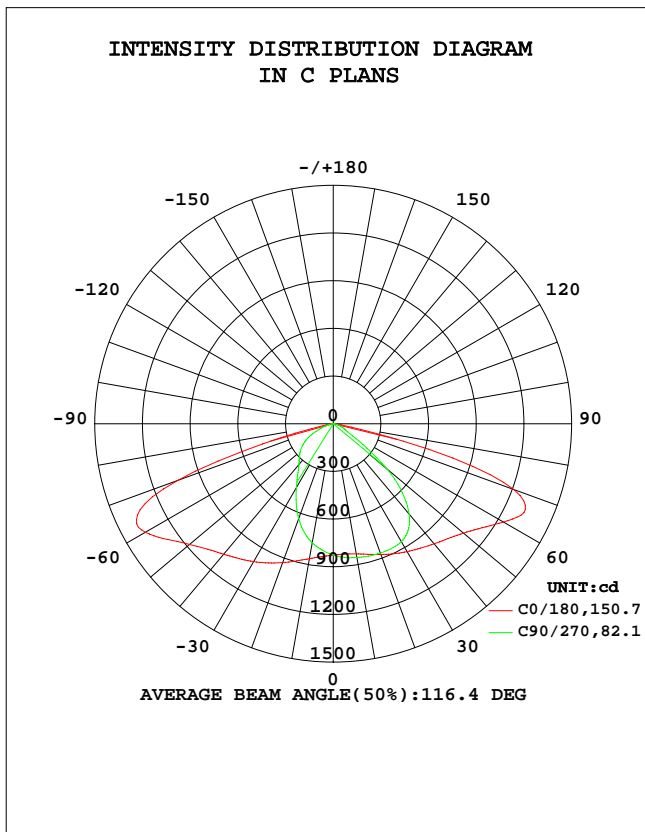


## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:219.3V I:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.31 lm/W			
MODEL	3030	I <sub>max</sub> (cd)	1744	η street_up(%)	0.0
NOMINAL POWER(W)	20	LOR(%)	100.0	η street_down(%)	61.2
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3115	η house_up(%)	0.0
NOMINAL FLUX(lm)	3114.91	MAXIMUM @(C,γ )	165,65.0	η house_down(%)	38.8
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	17.772



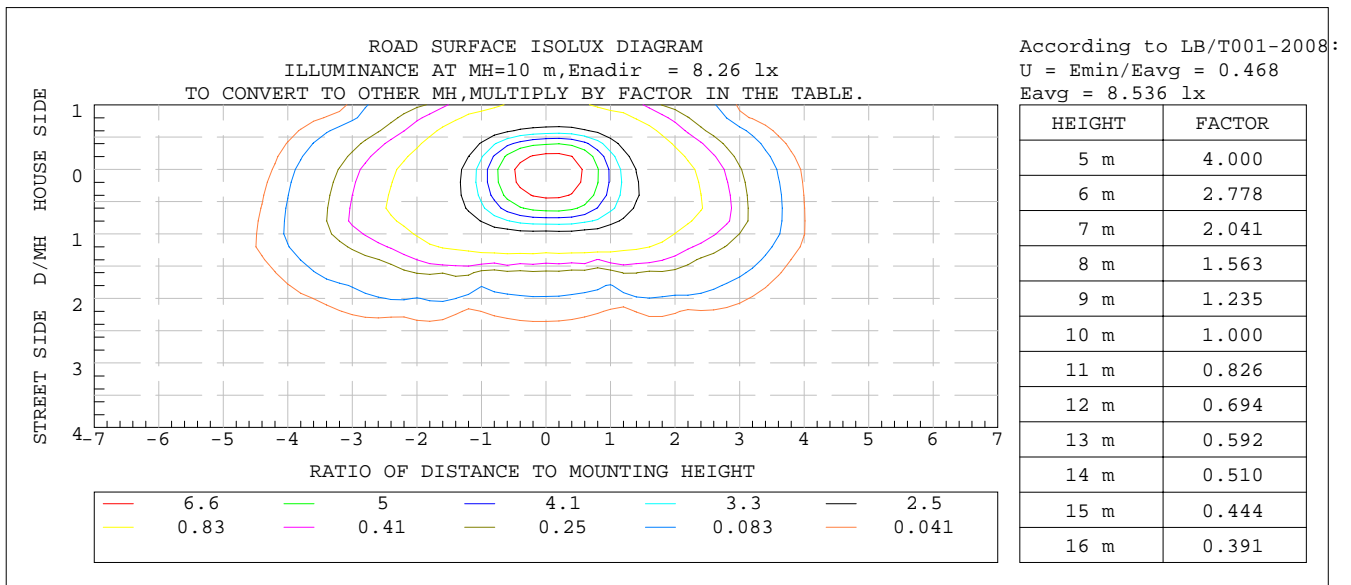
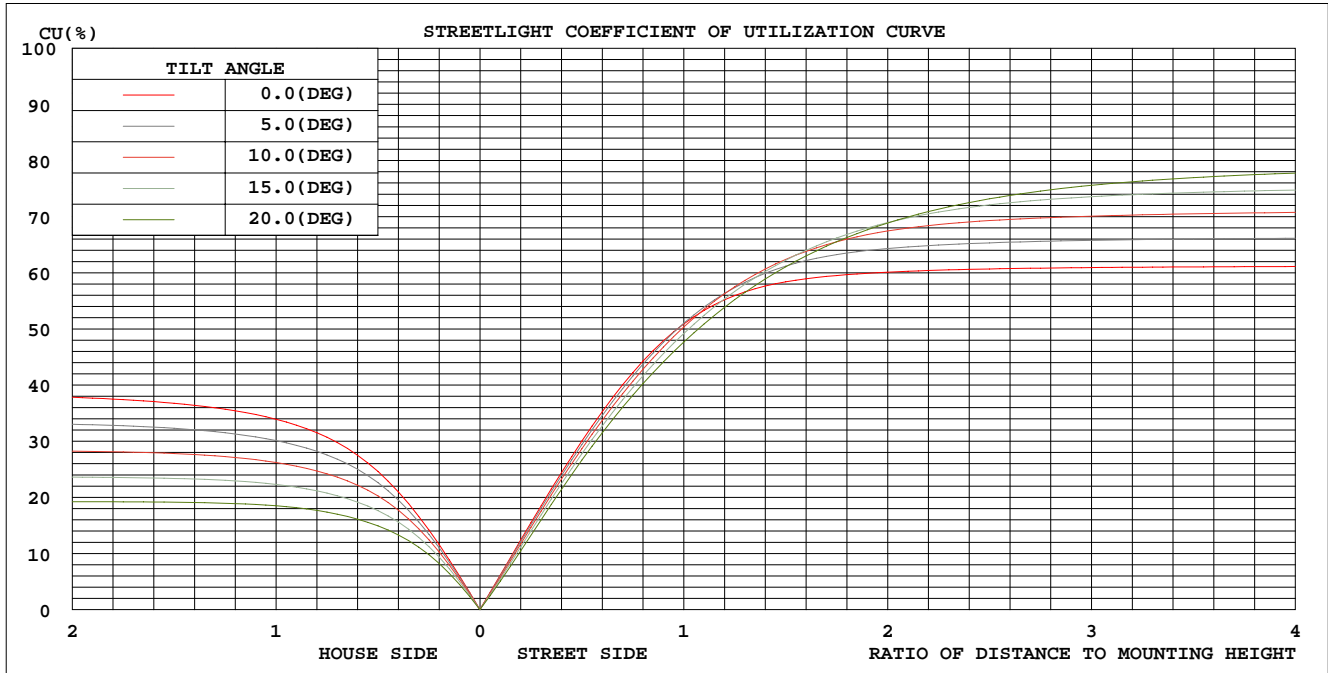
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-23

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:

```

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: 2023-10-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

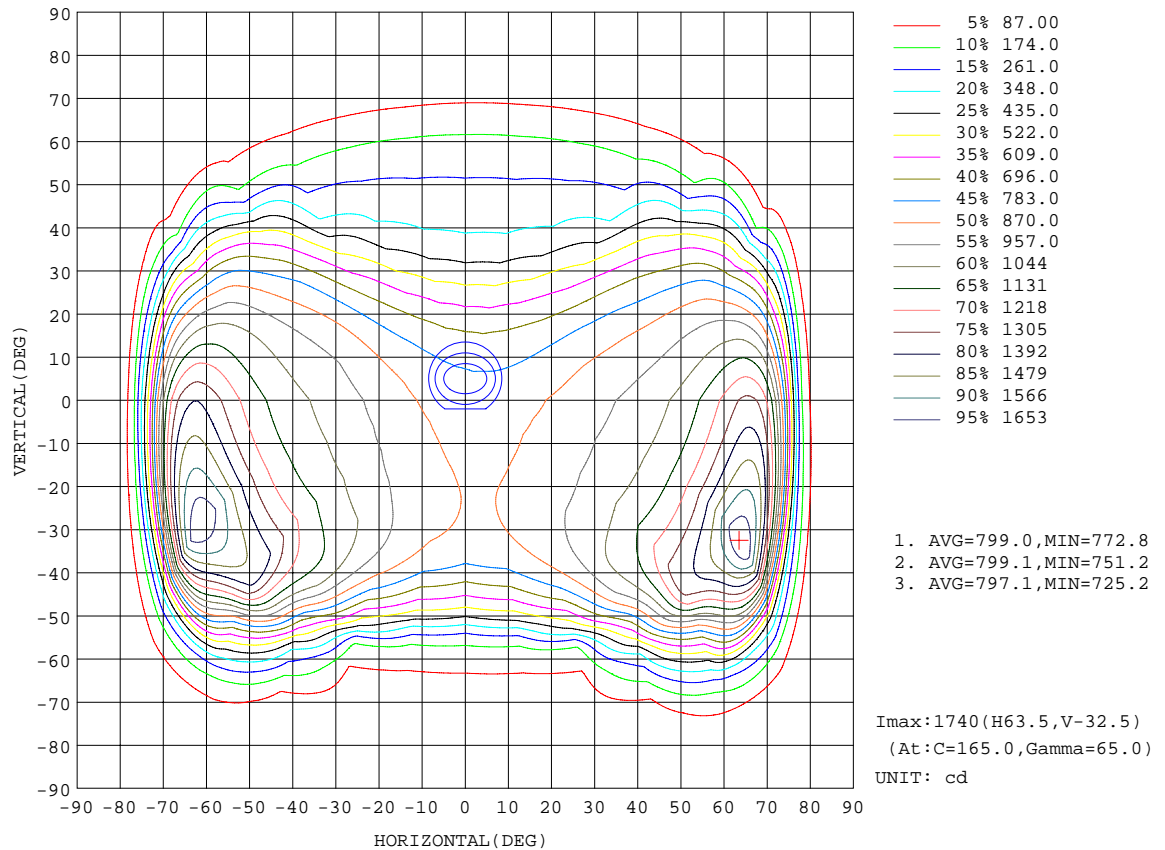
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	831.4	849.1	854.8	870.1	862.0	806.5	760.5	781.8	0- 10	78.90	78.90	2.53,2.53
20	875.8	882.1	866.2	922.6	929.5	779.4	635.5	733.6	10- 20	234.7	313.6	10.1,10.1
30	929.1	931.9	856.8	992.2	1002	714.1	464.8	656.3	20- 30	381.4	695.0	22.3,22.3
40	986.9	997.2	742.7	1074	1071	586.4	336.5	537.4	30- 40	506.5	1202	38.6,38.6
50	1070	1022	442.2	1094	1181	382.9	271.3	370.0	40- 50	593.2	1795	57.6,57.6
60	1237	718.0	114.9	704.0	1365	224.2	190.3	237.5	50- 60	608.1	2403	77.1,77.1
70	1208	234.9	54.24	201.2	1038	78.84	77.43	93.18	60- 70	508.4	2911	93.5,93.5
80	82.61	26.88	14.42	18.82	41.99	14.48	18.62	18.61	70- 80	191.5	3103	99.6,99.6
90	0	0	0	0	0	0	0	0	80- 90	12.09	3115	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3115	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3115	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3115	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3115	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3115	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3115	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3115	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3115	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3115	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:2023-10-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
 Humidity:65.0%  
 Test Distance:7.682m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

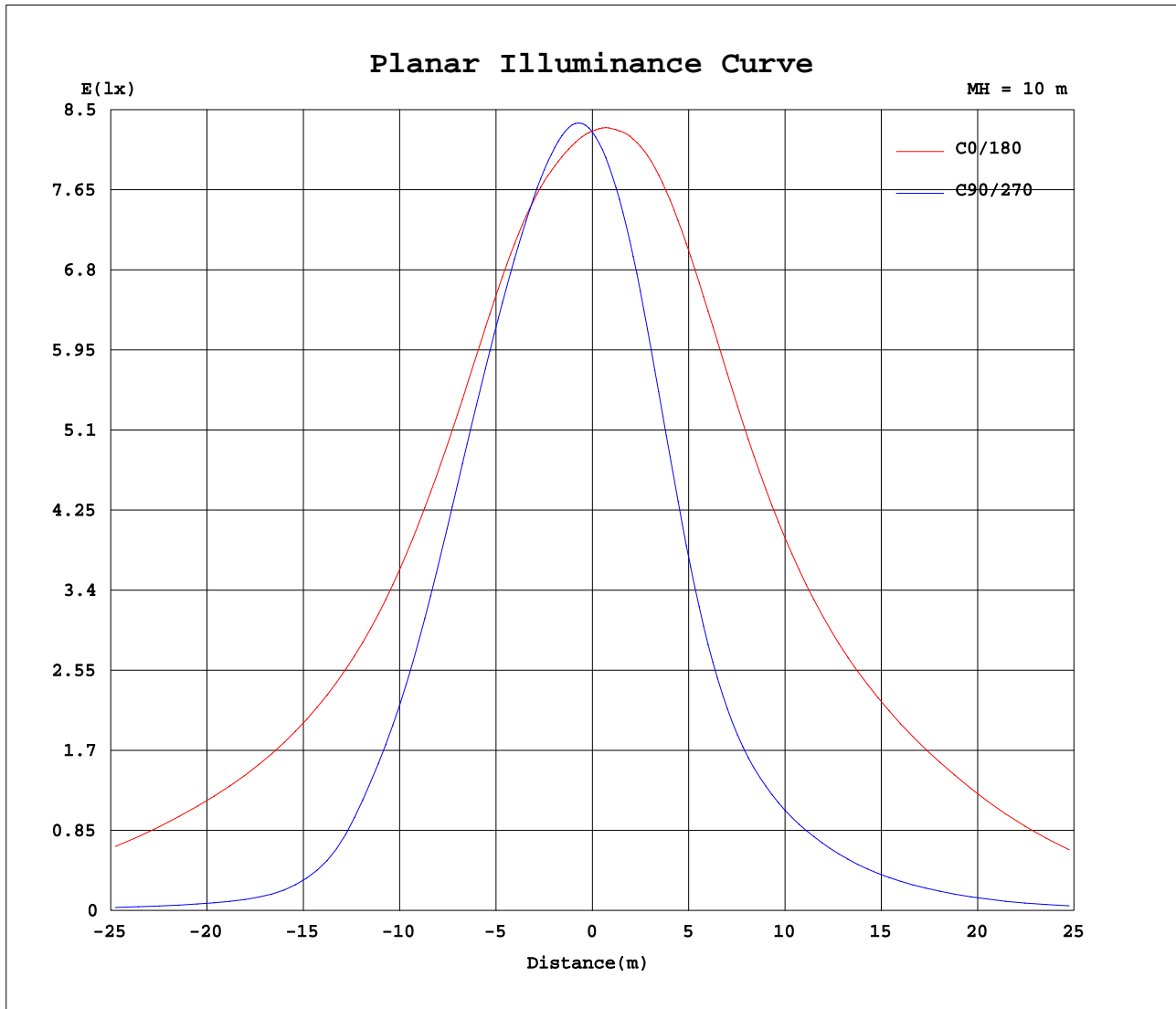
Test:U:219.3V I:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-23

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



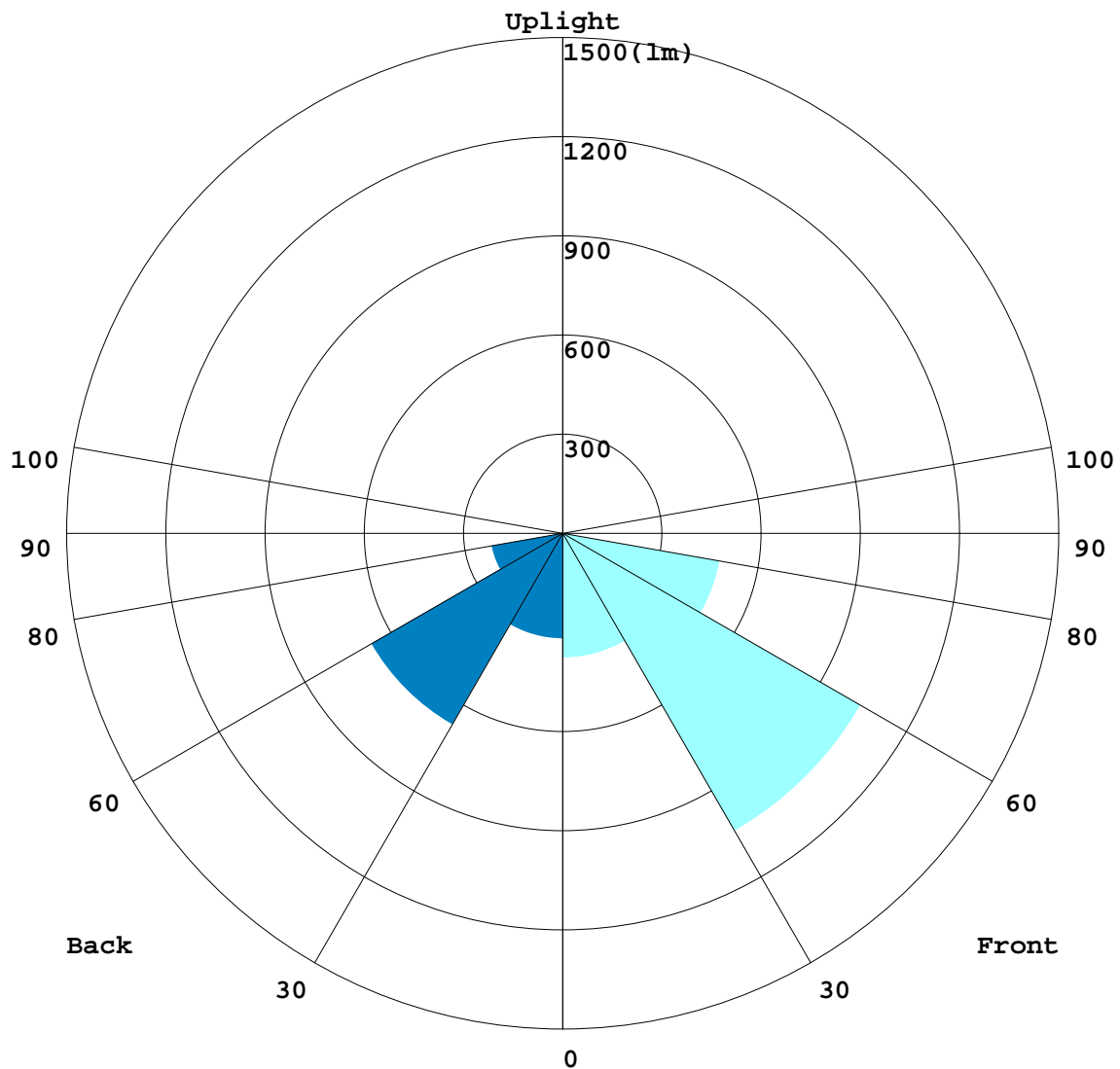
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-10-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-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:2023-10-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-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)	376.45	12.1
FM - Front-Medium(30-60)	1039.8	33.4
FH - Front-High(60-80)	481.81	15.5
FVH - Front-Very High(80-90)	8.3283	0.3
Total Forward Light	1906.4	61.2

BL - Back-Low(0-30)	318.55	10.2
BM - Back-Medium(30-60)	668.02	21.4
BH - Back-High(60-80)	218.16	7.0
BVH - Back-Very High(80-90)	3.7613	0.1
Total Back Light	1208.5	38.8

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	B1-U0-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1208.5	0	1208.5
Street Side	1906.4	0	1906.4

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-10-23

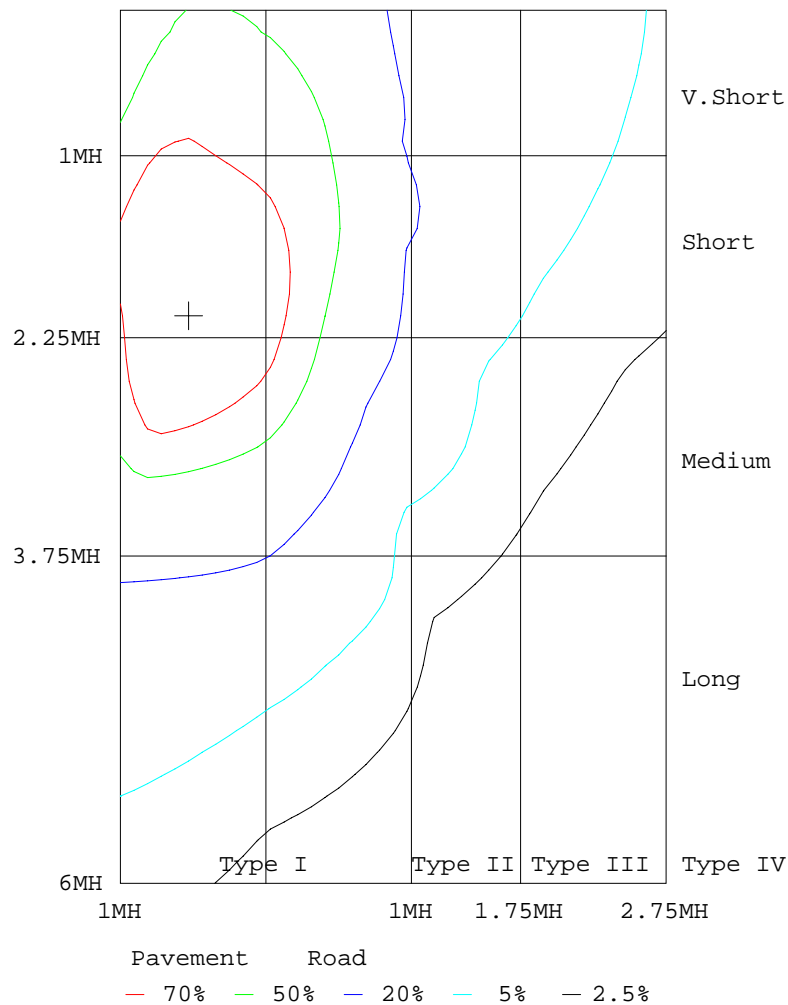
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks:



### ROAD ISOCANDELA REPORT

Test:U:219.3V I:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-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:2023-10-23

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826	826
5	823	829	834	838	841	843	845	847	848	849	848	844	839	833	824	816	808	802	798
10	831	841	847	849	850	852	855	860	865	870	873	871	862	848	828	806	786	769	760
15	851	862	867	863	859	859	862	871	881	894	904	905	894	872	837	796	756	722	707
20	876	889	890	882	871	864	866	879	899	923	939	943	929	899	846	779	713	659	636
25	903	918	917	904	884	868	867	885	919	955	976	981	966	927	855	752	654	580	551
30	929	947	948	932	897	865	857	884	938	992	1018	1020	1002	954	859	714	580	494	465
35	956	978	983	963	904	843	821	861	949	1033	1063	1059	1036	977	855	660	500	416	390
40	987	1014	1028	997	891	784	743	797	932	1074	1120	1105	1071	995	836	586	419	354	336
45	1022	1062	1086	1024	834	674	616	677	862	1105	1193	1167	1117	1009	797	495	354	314	301
50	1070	1130	1162	1022	710	517	442	510	710	1094	1289	1264	1181	1016	729	383	306	280	271
55	1142	1240	1258	941	523	282	227	271	498	971	1396	1414	1270	998	623	298	258	240	234
60	1237	1414	1336	718	211	126	115	120	176	704	1438	1611	1365	905	461	224	204	193	190
65	1324	1648	1236	459	94.1	81.5	77.8	78.6	86.5	400	1150	1744	1359	672	225	146	137	132	131
70	1208	1709	748	235	62.4	57.1	54.2	54.8	58.4	201	622	1477	1038	335	98.6	78.8	75.5	74.9	77.4
75	622	1035	373	86.9	38.0	34.8	32.8	32.7	34.0	60.0	268	510	355	63.5	45.1	35.3	39.4	40.7	42.4
80	82.6	234	121	26.9	17.8	16.2	14.4	14.6	14.6	18.8	66.9	91.4	42.0	22.8	17.8	14.5	16.1	18.0	18.6
85	14.0	26.5	21.9	6.56	4.07	3.35	2.63	2.74	2.74	3.60	8.65	8.40	6.26	4.03	3.64	3.00	3.45	3.48	3.76
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:2023-10-23

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:0.0974A P:20.19W PF:0.9455 Freq:60.01Hz Lamp Flux:3114.91x1 lm		
NAME: AOK iL02	TYPE:LED Street Light	WEIGHT:4.5kg
SPEC.:AOK-20WiL02-NVS-L3-00-3070-T201-P	DIM.: 530*240*75mm	SERIAL No.:
MFR.: AOK	SUR.:200*150mm	Shielding Angle:

Table--2

UNIT: cd

C(DEC)	285	300	315	330	345														
γ (DEC)																			
0	826	826	826	826	826														
5	797	800	804	810	817														
10	759	768	782	799	817														
15	708	729	760	794	826														
20	641	680	734	793	842														
25	561	618	700	791	860														
30	478	545	656	785	876														
35	403	471	603	772	891														
40	345	396	537	752	905														
45	308	343	458	716	914														
50	276	302	370	664	919														
55	240	260	301	578	909														
60	195	210	238	451	859														
65	138	149	165	255	699														
70	79.5	84.4	93.2	119	408														
75	43.3	45.8	44.7	55.2	96.1														
80	19.8	20.1	18.6	23.4	29.8														
85	4.36	4.98	4.97	6.53	8.20														
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:2023-10-23

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
γ Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.363T  
Humidity:65.0%  
Test Distance:7.682m [K=1.0000]  
Remarks: