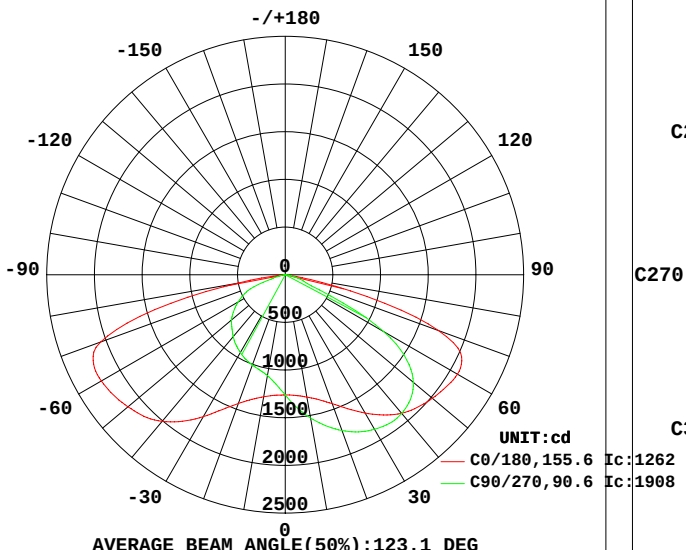
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:26.76V I:1.210A P:32.37W PF:1.000 Freq:0Hz Lamp Flux:6662.03x1 lm		
NAME: AoK SAF	TYPE:LED STREET LIGHT	WEIGHT:4.2KG
SPEC.:AoK-32WSAF-DC-A5-00-4070-T312-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.:	SUR.:180*180mm	Shielding Angle:

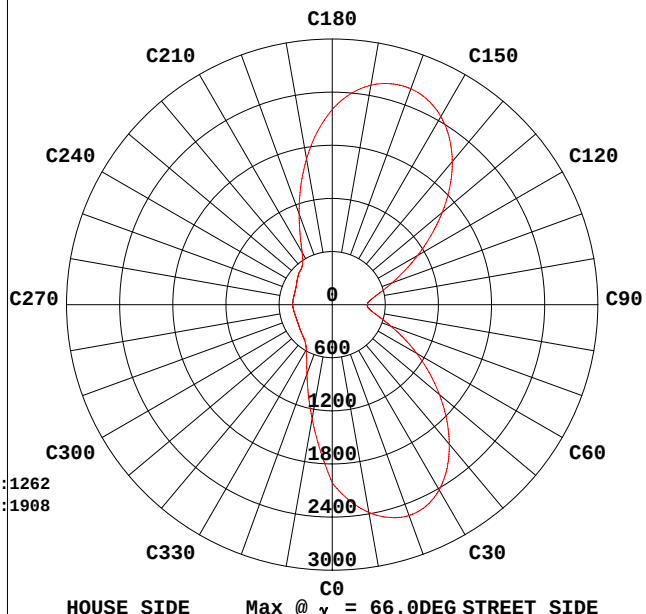
DATA OF LAMP		PHOTOMETRIC DATA Eff: 205.78 lm/W			
MODEL	5050	Imax(cd)	2583	η street_up(%)	0.0
NOMINAL POWER(W)	32	LOR(%)	100.0	η street_down(%)	66.3
RATED VOLTAGE(V)		TOTAL FLUX(lm)	6662	η house_up(%)	0.0
NOMINAL FLUX(lm)	6662.03	MAXIMUM @(C,γ)	165,66.0	η house_down(%)	33.7
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)		η down(%)	100.0	SLI	19.031

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):123.1 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



HOUSE SIDE Max @ γ = 66.0DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yanyonggeng
Test Date:2025-8-8

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:26.76V I:1.210A P:32.37W PF:1.000 Freq:0Hz Lamp Flux:6662.03x1 lm		
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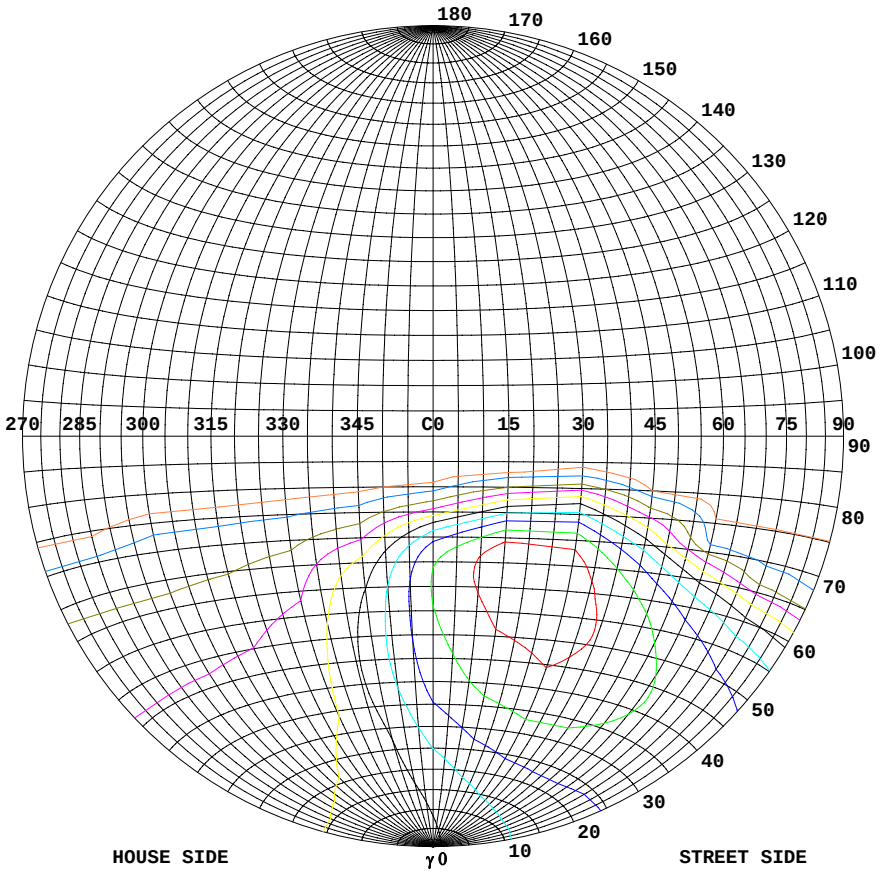
SPEC.:AoK-32WSAF-DC-A5-00-4070-T312-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.:	SUR.:180*180mm	Shielding Angle:



Classification:

IES:Type III - Short
CIE:Average - Intermediate
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:161.8cd/klm
Max.At90:0cd/klm
Max.80-90:161.8cd/klm
NRB 5101:Semi limited[26.9%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2583
90%	2325
80%	2066
70%	1808
60%	1550
50%	1291
40%	1033
30%	775
20%	517
10%	258
5%	129

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Humidity:65.0%
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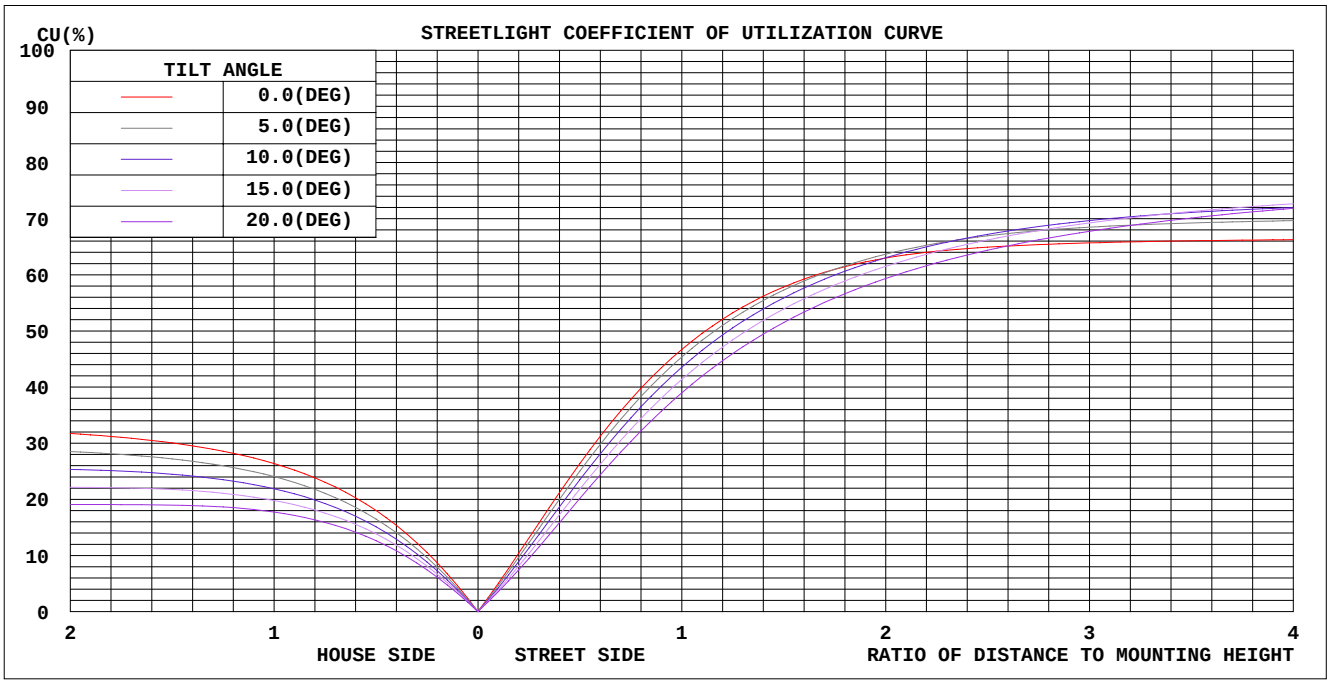
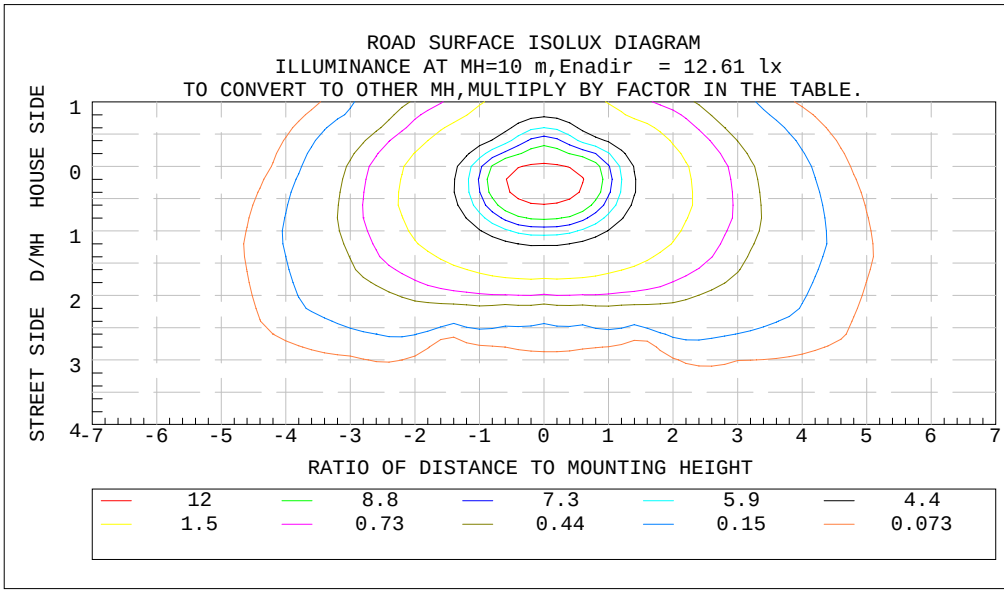
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





According to LB/T001-2008:
U = Emin/Eavg = 0.417
Eavg = 14.71 lx

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

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ZONAL FLUX DIAGRAM

Test:U:26.76V I:1.210A P:32.37W PF:1.000 Freq:0Hz Lamp Flux:6662.03x1 lm		
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MFR.:	SUR.:180*180mm	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1303	1482	1524	1472	1299	1128	1074	1125	0- 10	122.4	122.4	1.84,1.84
20	1439	1736	1738	1723	1437	1048	1008	1042	10- 20	382.8	505.2	7.58,7.58
30	1675	1997	1871	2003	1718	992.0	942.8	983.9	20- 30	674.5	1180	17.7,17.7
40	1897	2195	1899	2228	2008	914.4	849.5	898.8	30- 40	979.8	2160	32.4,32.4
50	2015	2263	1754	2287	2154	803.5	735.0	778.4	40- 50	1237	3396	51,51
60	2085	2121	1192	2169	2227	654.8	571.5	618.4	50- 60	1365	4761	71.5,71.5
70	1707	1442	215.6	1507	2058	418.1	298.3	366.9	60- 70	1213	5975	89.7,89.7
80	184.0	128.7	54.77	158.1	494.0	83.34	31.53	53.12	70- 80	622.8	6597	99,99
90	0	0	0	0	0	0	0	0	80- 90	64.60	6662	100,100
100	0	0	0	0	0	0	0	0	90-100	0	6662	100,100
110	0	0	0	0	0	0	0	0	100-110	0	6662	100,100
120	0	0	0	0	0	0	0	0	110-120	0	6662	100,100
130	0	0	0	0	0	0	0	0	120-130	0	6662	100,100
140	0	0	0	0	0	0	0	0	130-140	0	6662	100,100
150	0	0	0	0	0	0	0	0	140-150	0	6662	100,100
160	0	0	0	0	0	0	0	0	150-160	0	6662	100,100
170	0	0	0	0	0	0	0	0	160-170	0	6662	100,100
180	0	0	0	0	0	0	0	0	170-180	0	6662	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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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

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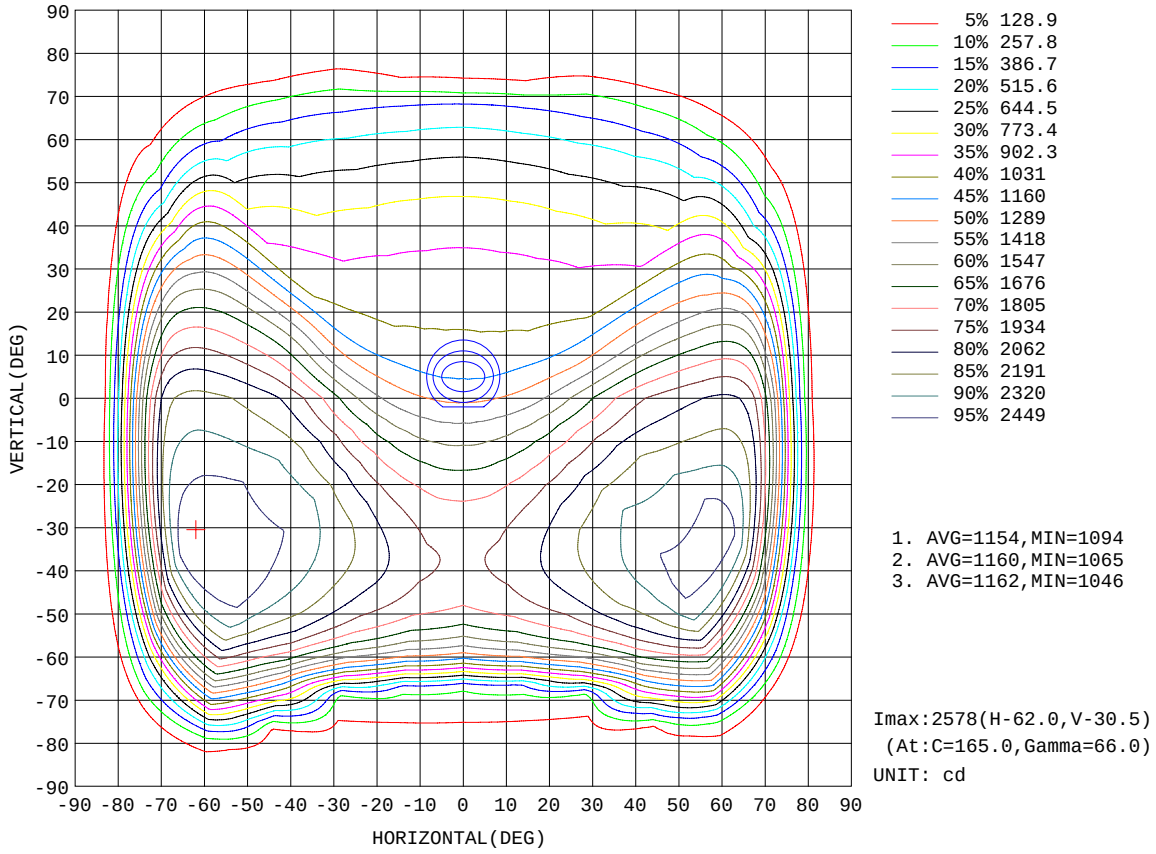

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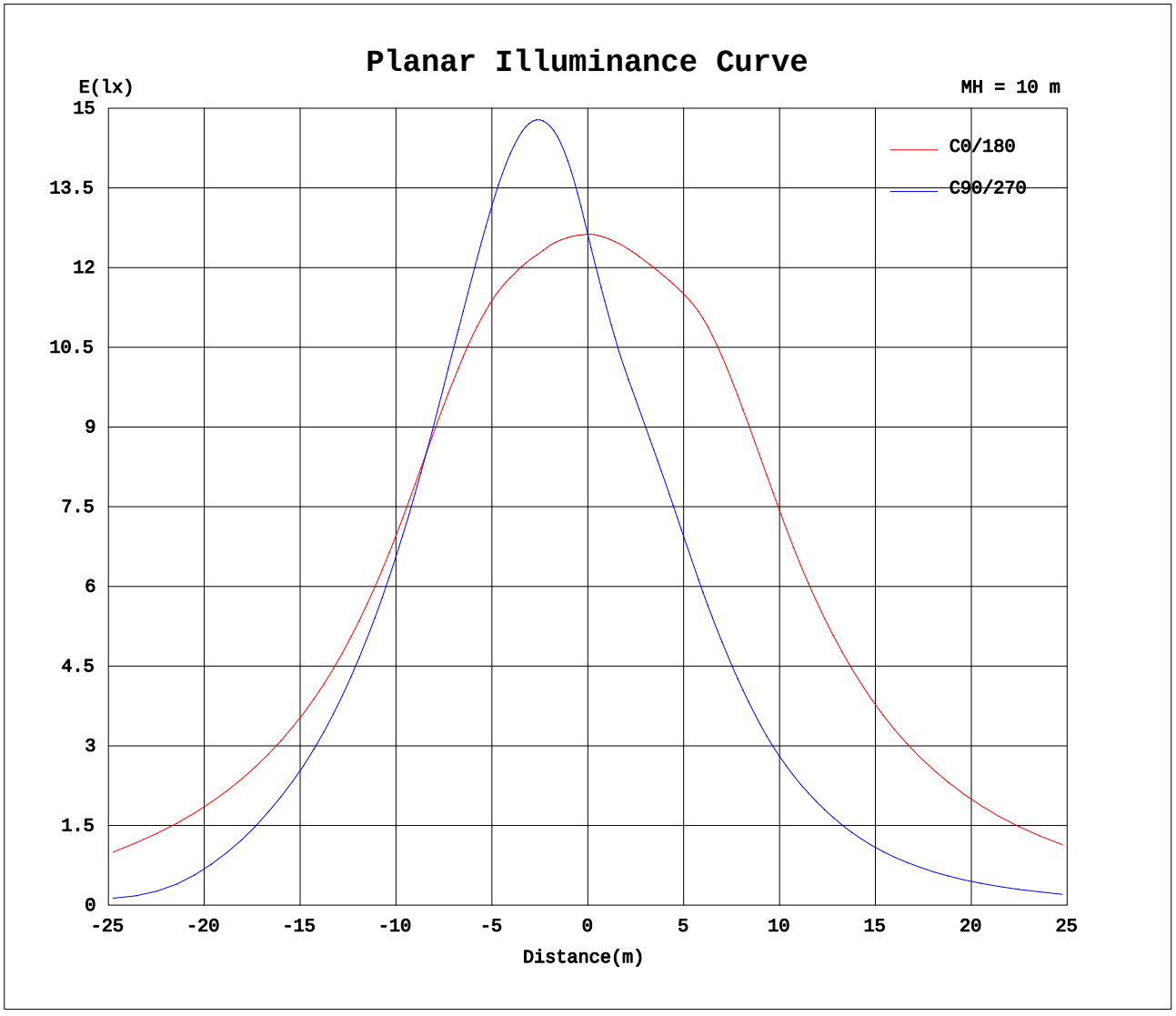
Remarks:

Planar Illuminance Curve



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Remarks:

LCS REPORT

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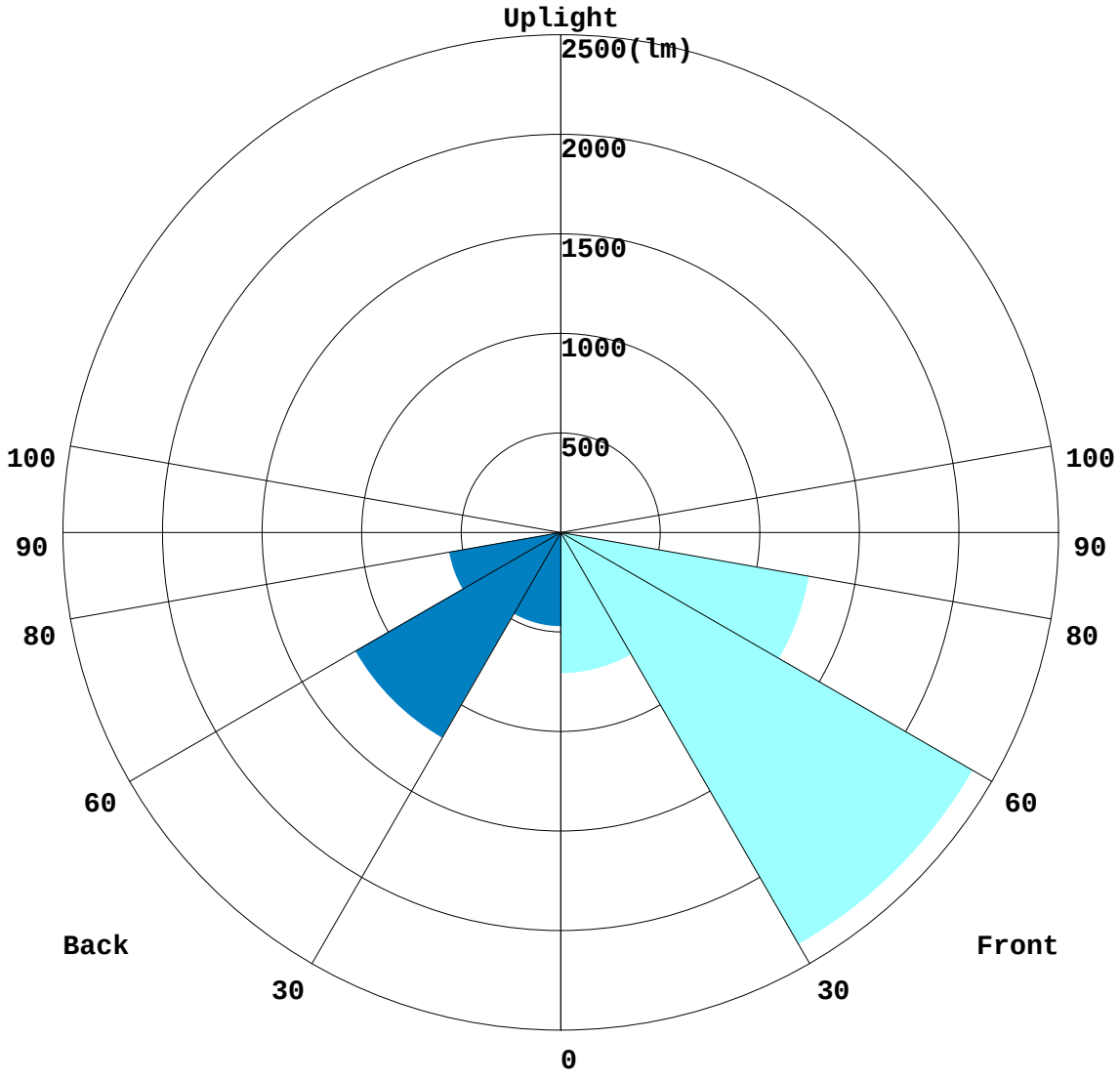
MFR.:	SUR.:180*180mm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



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Remarks:

BUG REPORT

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SPEC.:AoK-32WSAF-DC-A5-00-4070-T312-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.:	SUR.:180*180mm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	707.96	10.6
FM - Front-Medium(30-60)	2390.2	35.9
FH - Front-High(60-80)	1266.9	19.0
FVH - Front-Very High(80-90)	49.725	0.7
Total Forward Light	4414.7	66.3
BL - Back-Low(0-30)	471.75	7.1
BM - Back-Medium(30-60)	1191.5	17.9
BH - Back-High(60-80)	569.14	8.5
BVH - Back-Very High(80-90)	14.872	0.2
Total Back Light	2247.3	33.7
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	B2-U0-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2247.3	0	2247.3
Street Side	4414.7	0	4414.7

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Remarks:

ROAD ISOCANDELA REPORT

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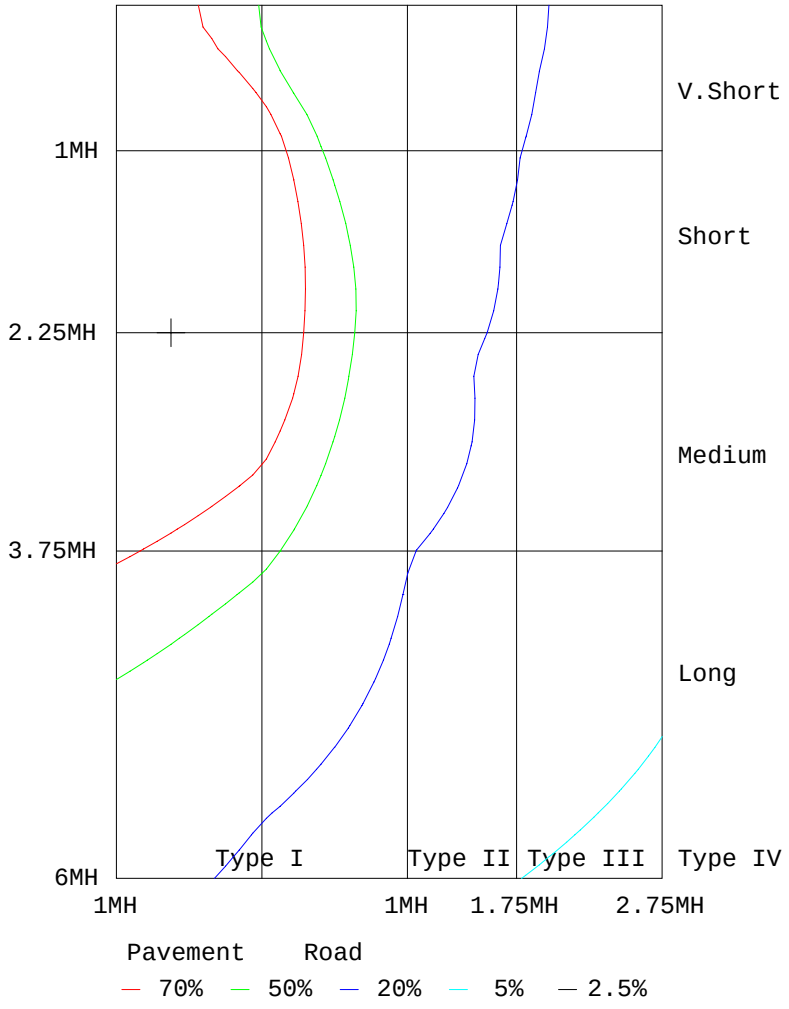
SPEC.:AoK-32WSAF-DC-A5-00-4070-T312-P	DIM.: 560*240*200mm	SERIAL No.:
MFR.:	SUR.:180*180mm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



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Temperature:25.3DEG
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.:	SUR.:180*180mm	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261	1261
5	1271	1305	1338	1364	1383	1394	1398	1393	1381	1361	1336	1304	1270	1237	1207	1182	1164	1154	1150
10	1303	1374	1439	1482	1508	1522	1524	1519	1501	1472	1431	1370	1299	1232	1172	1128	1095	1080	1074
15	1356	1469	1556	1606	1629	1639	1638	1635	1619	1593	1545	1463	1353	1244	1150	1081	1050	1041	1035
20	1439	1593	1690	1736	1748	1746	1738	1739	1737	1723	1680	1588	1437	1270	1122	1048	1021	1012	1008
25	1550	1736	1833	1869	1856	1834	1818	1828	1848	1863	1837	1747	1559	1307	1092	1020	992	984	979
30	1675	1878	1976	1997	1948	1901	1871	1893	1947	2003	2003	1921	1718	1364	1073	992	959	948	943
35	1795	2009	2114	2107	2022	1944	1904	1940	2028	2129	2157	2081	1876	1458	1056	958	918	905	900
40	1897	2136	2239	2195	2070	1958	1899	1954	2084	2228	2300	2228	2008	1565	1036	914	870	856	850
45	1964	2225	2330	2248	2076	1929	1853	1923	2088	2277	2396	2329	2098	1623	1004	863	813	799	791
50	2015	2300	2395	2263	2023	1849	1754	1840	2031	2287	2450	2402	2154	1636	961	803	748	738	735
55	2055	2378	2442	2234	1905	1682	1555	1669	1917	2262	2491	2471	2200	1619	906	735	674	660	659
60	2085	2463	2470	2121	1688	1361	1192	1352	1695	2169	2512	2538	2227	1563	823	655	589	569	572
65	2040	2499	2441	1895	1230	723	529	730	1242	1947	2472	2580	2217	1422	709	549	488	468	469
70	1707	2246	2197	1442	442	219	216	227	463	1507	2289	2502	2058	1111	543	418	367	340	298
75	888	1526	1608	800	140	134	131	142	153	881	1843	1957	1418	582	327	256	228	126	115
80	184	514	705	129	70.4	58.0	54.8	63.9	82.8	158	1078	963	494	181	129	83.3	72.7	35.8	31.5
85	17.8	33.1	78.2	23.8	14.6	11.4	9.40	12.7	21.9	40.0	182	136	47.0	29.1	24.9	14.2	5.61	1.76	1.36
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

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MFR.:	SUR.:180*180mm	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	1261	1261	1261	1261	1261														
5	1153	1163	1181	1206	1237														
10	1078	1092	1125	1169	1231														
15	1038	1046	1076	1144	1241														
20	1010	1016	1042	1107	1260														
25	981	987	1013	1075	1282														
30	945	953	984	1051	1312														
35	902	912	947	1027	1356														
40	852	863	899	996	1397														
45	795	805	842	954	1416														
50	733	737	778	899	1405														
55	654	658	705	830	1365														
60	564	568	618	739	1285														
65	459	465	506	617	1104														
70	309	342	367	442	745														
75	106	191	206	238	351														
80	29.9	39.7	53.1	64.9	101														
85	1.00	1.92	5.30	10.0	12.5														
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:yanyonggeng
Test Date:2025-8-8

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: