
Shenzhen Wisdom Light Co.,Ltd.

Client:

LumCAT: the half of model WL-2LSD8FT70WBDHV(40K)-T

Luminaire: Wisdom Light

Report No:

Ballast type:

Test No: LCZP21030283

Voltage(V): 120.020

LampCAT:

Current(A): 0.261

Lamp flux(lm): 4072.3

Power (W): 31.230

Number of Lamps: 1

PF: 0.996

Length(mm): 1200

Width(mm): 60

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 4072.31, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 130.40

Central intensity(cd): 1466.679, Maximum intensity(cd): 1466.679

Angle of maximum intensity: C=60.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=108.0

[C90/270]Total=110.2

Field angle(10%Imax): [C0/180]Total=159.0

[C90/270]Total=163.4

Maximum s/h(1/2): C0_180=1.23 C90_270=1.23

Maximum s/h(1/4): C0_180=1.35 C90_270=1.36

Up flux rate of lamp(%): 0.45%

Down flux rate of lamp(%): 99.55%

Up flux rate of LUM(%): 0.45%

Down flux rate of LUM(%): 99.55%

CIE Type : Direct lighting

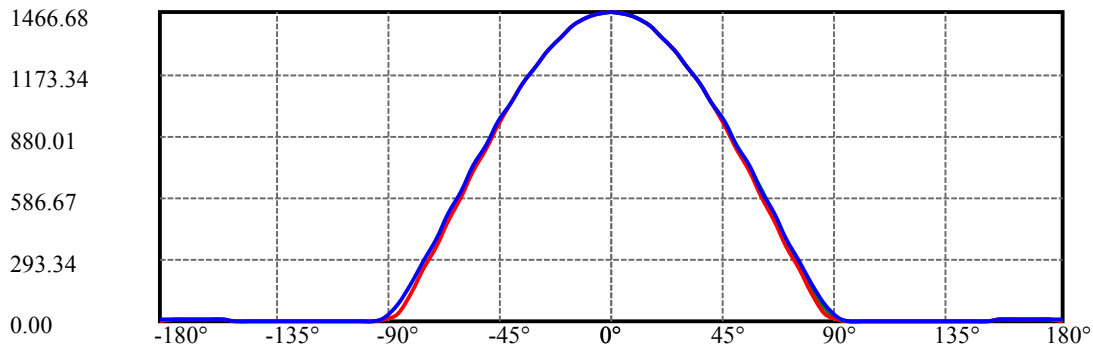
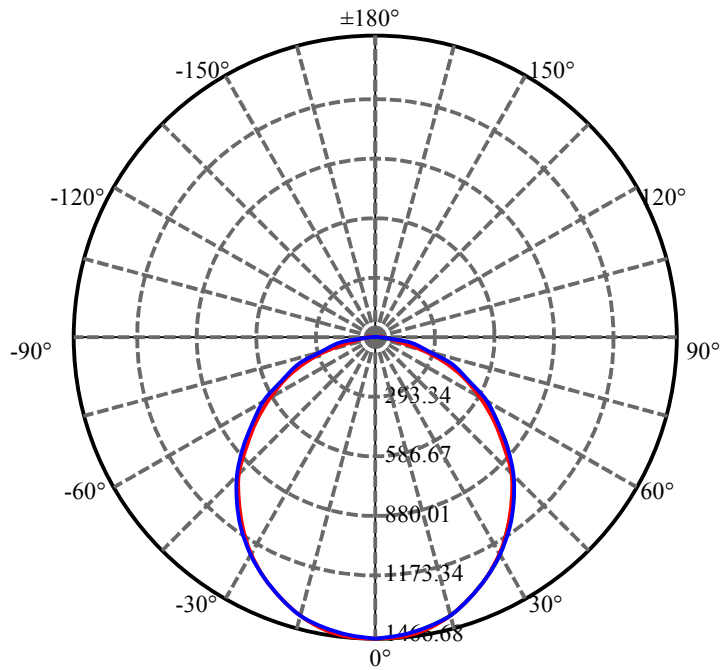
Output flux ratio in π solid angle : 78.803%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1466.679	0.000	0	0.00%	0.00%
5.0	1459.205	34.978	34.978	0.86%	0.86%
10.0	1436.896	103.603	138.581	2.54%	3.40%
15.0	1400.095	168.288	306.869	4.13%	7.54%
20.0	1350.230	226.665	533.535	5.57%	13.10%
25.0	1287.450	276.644	810.179	6.79%	19.89%
30.0	1215.517	316.753	1126.931	7.78%	27.67%
35.0	1130.607	345.483	1472.414	8.48%	36.16%
40.0	1039.748	362.107	1834.522	8.89%	45.05%
45.0	942.937	367.110	2201.632	9.01%	54.06%
50.0	835.007	359.259	2560.891	8.82%	62.89%
55.0	725.197	339.240	2900.131	8.33%	71.22%
60.0	611.512	308.976	3209.108	7.59%	78.80%
65.0	492.398	268.363	3477.47	6.59%	85.39%
70.0	377.081	220.158	3697.628	5.41%	90.80%
75.0	265.848	168.052	3865.68	4.13%	94.93%
80.0	155.677	112.789	3978.468	2.77%	97.70%
85.0	56.989	57.787	4036.255	1.42%	99.11%
90.0	7.071	17.540	4053.795	0.43%	99.55%
95.0	2.417	2.598	4056.393	0.06%	99.61%
100.0	2.191	1.252	4057.645	0.03%	99.64%
105.0	1.888	1.092	4058.737	0.03%	99.67%
110.0	1.775	0.957	4059.694	0.02%	99.69%
115.0	1.737	0.889	4060.584	0.02%	99.71%
120.0	2.003	0.909	4061.493	0.02%	99.73%
125.0	2.002	0.926	4062.418	0.02%	99.76%
130.0	2.153	0.903	4063.322	0.02%	99.78%
135.0	2.265	0.893	4064.215	0.02%	99.80%
140.0	2.946	0.965	4065.179	0.02%	99.82%
145.0	3.171	1.021	4066.2	0.03%	99.85%
150.0	4.077	1.067	4067.267	0.03%	99.88%
155.0	4.983	1.147	4068.414	0.03%	99.90%
160.0	6.305	1.184	4069.598	0.03%	99.93%
165.0	7.136	1.108	4070.706	0.03%	99.96%
170.0	7.740	0.882	4071.588	0.02%	99.98%
175.0	8.155	0.569	4072.157	0.01%	100.00%
180.0	4.530	0.152	4072.308	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1126.93	27.67%	27.67%
0-40	1834.52	45.05%	45.05%
0-60	3209.11	78.80%	78.80%
0-90	4053.80	99.55%	99.55%
0-120	4061.49	99.73%	99.73%
0-180	4072.31	100.00%	100.00%
60-90	844.69	20.74%	20.74%
90-120	7.70	0.19%	0.19%
90-130	9.53	0.23%	0.23%
90-150	13.47	0.33%	0.33%
90-180	18.36	0.45%	0.45%
0-60.91	3257.85	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	138.58
10-20	394.95
20-30	593.40
30-40	707.59
40-50	726.37
50-60	648.22
60-70	488.52
70-80	280.84
80-90	75.33
90-100	3.85
100-110	2.05
110-120	1.80
120-130	1.83
130-140	1.86
140-150	2.09
150-160	2.33
160-170	1.99
170-180	0.57



C60(Max): —————

C0/C180: —————

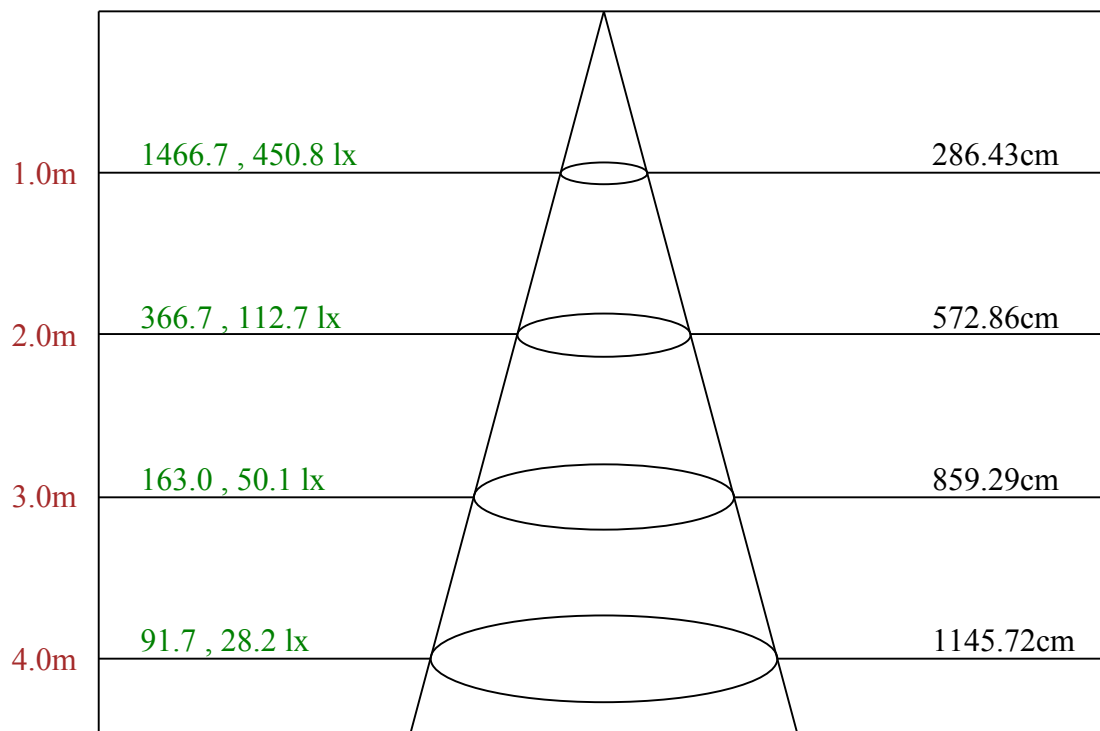
C90/C270: —————

Field angle(10%Imax):C0/180Left:79.5 Right:79.5

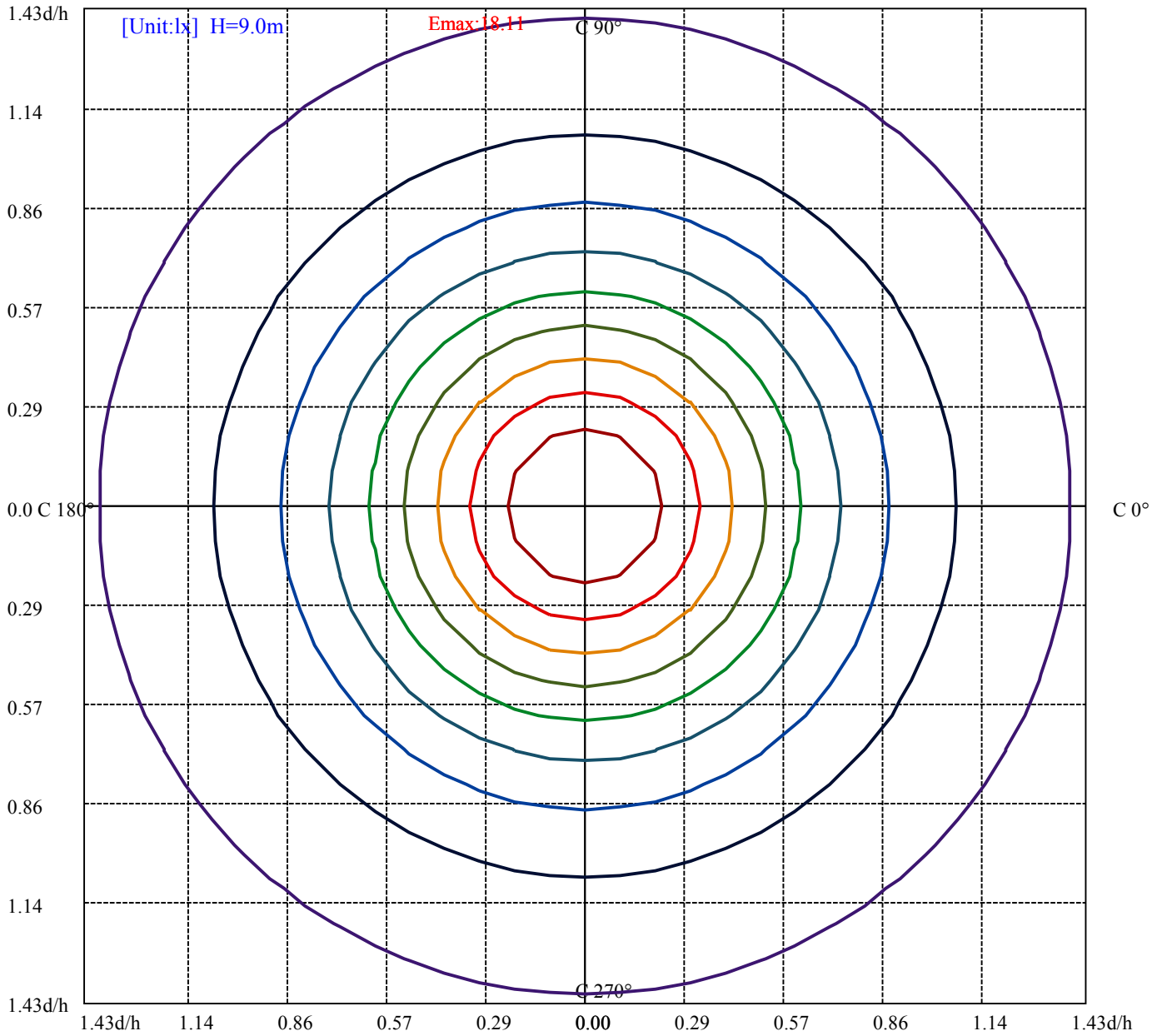
:C90/270Left:81.7 Right:81.7

Beam Angle(50%Imax):C0/180Left:54.0 Right:54.0

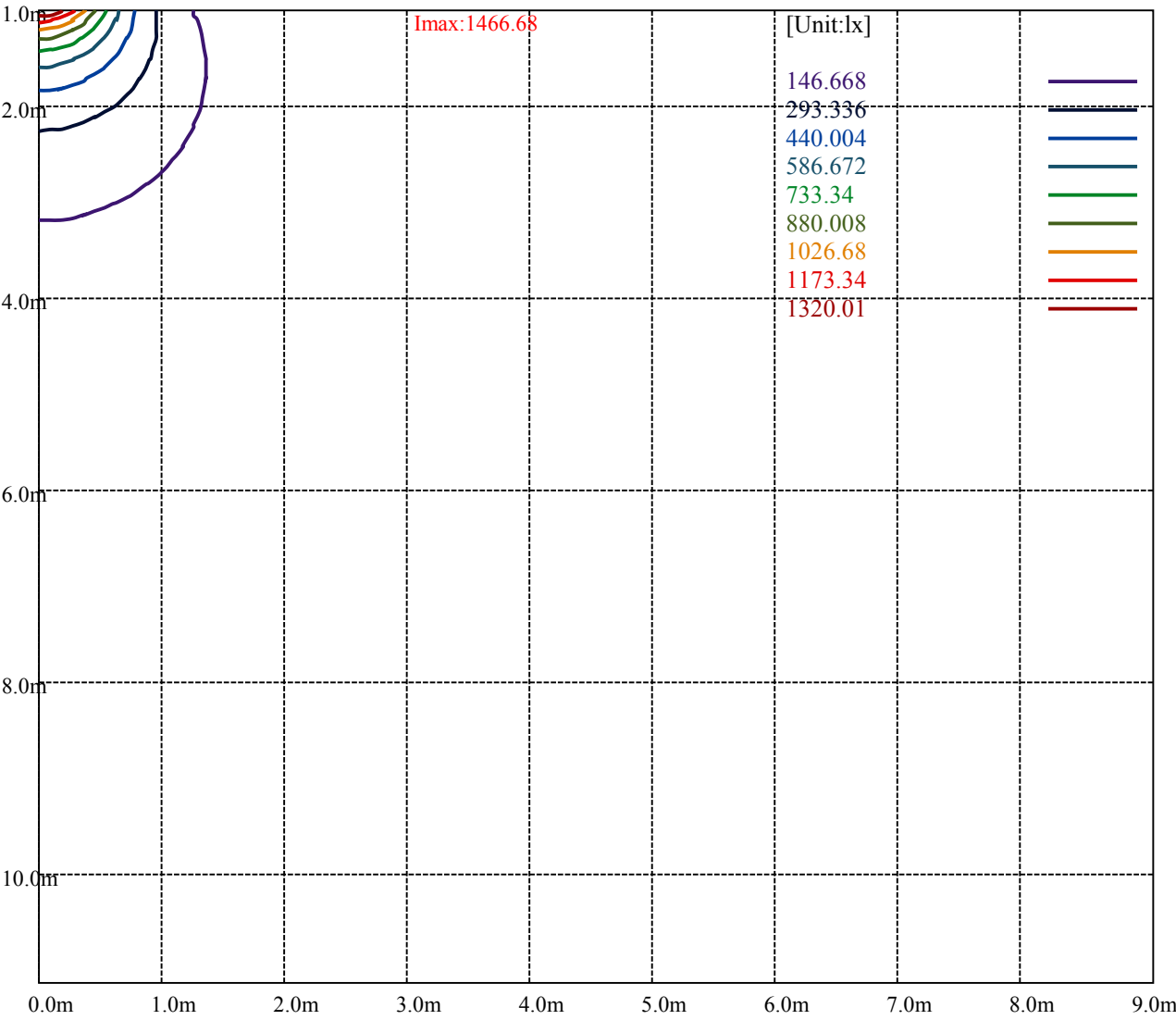
:C90/270Left:55.1 Right:55.1



Max , Ave Beam angle of C60 plane 110.15



(10%Emax) 1.810716	
(20%Emax) 3.621432	
(30%Emax) 5.432148	
(40%Emax) 7.242864	
(50%Emax) 9.05358	
(60%Emax) 10.86428	
(70%Emax) 12.67506	
(80%Emax) 14.48568	
(90%Emax) 16.29642	



Luminance Table

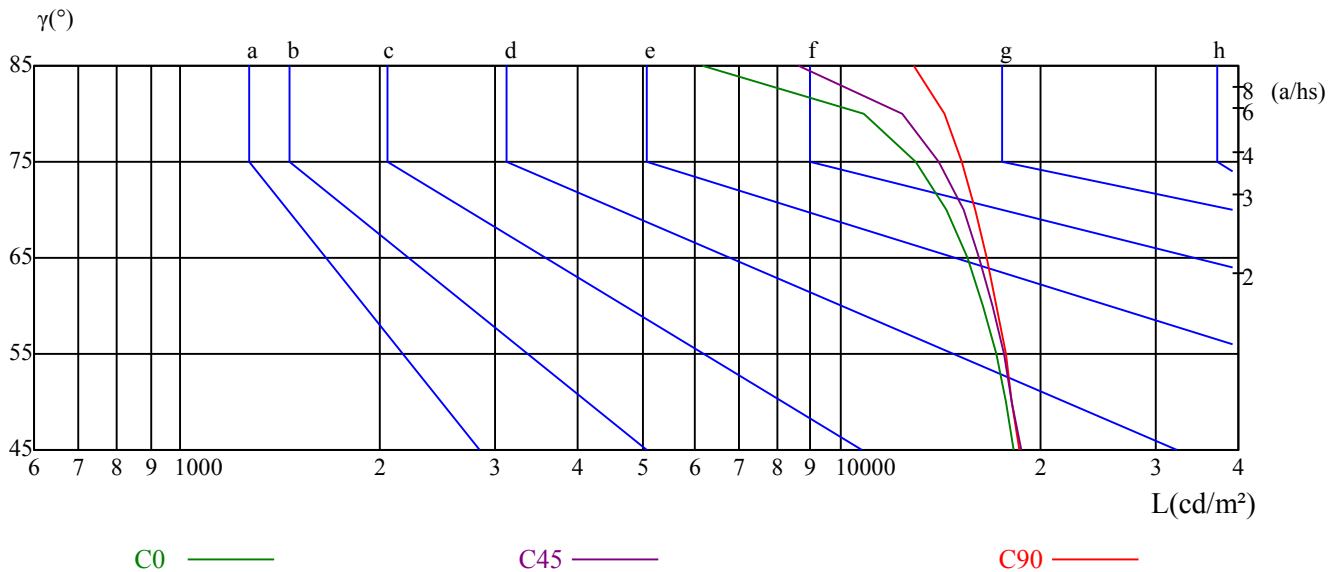
γ	45	50	55	60	65	70	75	80	85
C0	18329	17773	17196	16443	15569	14437	13022	10810	6184
C45	18770	18129	17631	17013	16216	15332	14116	12424	8600
C90	18590	18202	17791	17252	16662	15992	15256	14344	12872

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15569	16662	16216	13022	15256	14116	6184	12872	8600

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.04	1.00	0.96	1.02	0.98	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.87	0.85	0.83
2	0.91	0.84	0.78	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.69
3	0.80	0.71	0.65	0.78	0.70	0.64	0.75	0.68	0.63	0.72	0.67	0.62	0.69	0.65	0.61	0.59
4	0.70	0.62	0.55	0.69	0.61	0.55	0.67	0.59	0.54	0.64	0.58	0.53	0.62	0.57	0.52	0.50
5	0.63	0.54	0.47	0.62	0.53	0.47	0.60	0.52	0.46	0.58	0.51	0.46	0.56	0.50	0.45	0.43
6	0.57	0.48	0.41	0.56	0.47	0.41	0.54	0.46	0.41	0.52	0.45	0.40	0.51	0.45	0.40	0.38
7	0.51	0.43	0.37	0.51	0.42	0.36	0.49	0.42	0.36	0.48	0.41	0.36	0.46	0.40	0.35	0.33
8	0.47	0.38	0.33	0.46	0.38	0.32	0.45	0.37	0.32	0.44	0.37	0.32	0.42	0.36	0.32	0.30
9	0.43	0.35	0.29	0.42	0.35	0.29	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.26	0.37	0.31	0.26	0.36	0.30	0.26	0.24

Shenzhen Wisdom Light Co.,Ltd. the half of model WL-2LSD8FT70WBDHV(40K)-T

Intensity data(cd)									Appendix Page: 10 Total:12		
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	1466.68	1465.79	1447.94	1414.04	1369.44	1312.34	1240.08	1158.00	1070.57		
15.0	1466.68	1465.78	1447.79	1416.32	1369.56	1311.11	1240.97	1160.03	1071.91		
30.0	1466.68	1463.98	1446.92	1413.69	1370.58	1312.20	1240.35	1161.31	1071.49		
45.0	1466.68	1464.88	1447.75	1418.90	1372.03	1316.14	1246.72	1167.39	1079.05		
60.0	1466.68	1464.88	1446.03	1415.52	1368.84	1310.50	1239.59	1160.60	1069.94		
75.0	1466.68	1463.04	1447.55	1414.75	1371.03	1312.72	1243.49	1165.14	1077.69		
90.0	1466.68	1463.94	1448.43	1416.48	1371.76	1313.35	1243.98	1166.41	1078.79		
105.0	1466.68	1464.85	1448.41	1420.10	1376.27	1318.73	1246.59	1169.87	1083.11		
120.0	1466.68	1464.86	1449.35	1418.34	1375.47	1316.18	1249.60	1168.42	1082.68		
135.0	1466.68	1465.77	1447.51	1418.31	1371.76	1316.09	1243.98	1166.41	1076.05		
150.0	1466.68	1465.77	1450.25	1416.48	1373.59	1313.35	1245.81	1163.67	1076.96		
165.0	1466.68	1465.77	1447.57	1415.73	1371.14	1311.09	1242.86	1164.61	1076.35		
180.0	1466.68	1455.97	1427.43	1382.82	1327.51	1258.81	1181.19	1094.66	998.31		
195.0	1466.68	1451.39	1425.31	1381.25	1328.19	1258.95	1182.52	1094.39	1002.67		
210.0	1466.68	1452.31	1425.36	1381.35	1326.57	1258.31	1180.17	1094.85	998.74		
225.0	1466.68	1452.26	1427.01	1384.65	1327.85	1263.85	1187.23	1099.78	1004.23		
240.0	1466.68	1452.32	1424.49	1384.10	1326.65	1261.13	1179.45	1090.58	996.34		
255.0	1466.68	1452.10	1423.86	1382.87	1328.21	1260.80	1185.19	1099.55	1007.54		
270.0	1466.68	1452.08	1424.70	1382.71	1327.95	1262.24	1187.40	1099.78	1006.69		
285.0	1466.68	1453.89	1426.50	1384.49	1331.52	1263.02	1187.22	1099.55	1008.23		
300.0	1466.68	1454.82	1426.55	1386.41	1331.69	1266.01	1188.48	1103.66	1008.80		
315.0	1466.68	1454.81	1426.52	1383.63	1330.69	1261.33	1186.49	1097.04	1004.86		
330.0	1466.68	1454.81	1427.43	1385.45	1328.86	1261.33	1220.26	1094.31	1001.21		
345.0	1466.68	1454.85	1424.83	1383.88	1328.38	1259.23	1182.81	1094.55	1001.75		
360.0	1466.68	1465.79	1447.94	1414.04	1369.44	1312.34	1240.08	1158.00	1070.57		

C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	973.33	864.48	753.86	636.10	519.23	397.89	283.70	173.08	66.91		
15.0	973.89	868.68	758.07	638.47	521.57	403.76	289.56	176.25	72.84		
30.0	978.09	871.21	762.53	644.87	529.01	409.56	295.49	181.43	78.14		
45.0	983.50	881.63	771.65	657.17	539.07	419.18	304.69	194.72	91.05		
60.0	975.69	871.57	766.55	655.25	543.95	426.36	314.16	202.86	100.53		
75.0	982.95	882.74	778.89	664.11	552.97	440.00	328.86	216.81	114.78		
90.0	984.78	883.48	777.60	665.34	553.09	438.09	326.74	220.87	117.74		
105.0	987.22	887.68	778.09	664.85	552.52	441.10	326.94	217.35	115.07		
120.0	989.64	886.57	781.68	667.67	548.18	434.17	320.15	207.05	103.07		
135.0	982.96	883.48	773.04	655.31	540.31	421.66	308.49	198.05	90.36		
150.0	978.39	876.17	766.65	649.83	534.83	414.36	295.71	186.19	82.14		
165.0	979.00	869.82	760.64	645.99	526.80	406.70	292.06	177.42	72.79		
180.0	893.03	780.62	666.43	547.77	428.23	313.14	201.62	97.24	10.71		
195.0	894.76	786.85	669.94	553.94	433.44	319.23	203.23	98.02	10.79		
210.0	896.35	787.68	675.41	557.75	438.30	323.33	208.37	103.29	14.37		
225.0	905.97	796.89	686.01	570.63	450.73	336.25	220.86	115.39	18.03		
240.0	898.50	789.89	683.07	568.18	450.60	338.40	229.79	126.56	27.83		
255.0	905.52	801.66	690.52	576.65	463.69	351.64	239.59	135.74	37.35		
270.0	908.12	801.33	691.81	576.81	460.90	349.56	241.86	137.81	43.81		
285.0	906.86	801.83	694.07	578.09	463.02	351.60	291.33	136.07	35.62		
300.0	911.20	802.66	693.21	630.27	455.14	342.04	231.68	123.14	23.71		
315.0	950.10	794.03	681.77	566.78	443.56	333.13	218.13	113.17	16.43		
330.0	896.25	787.64	674.47	555.82	436.26	322.18	206.27	101.31	12.78		
345.0	894.38	781.56	668.74	548.64	432.18	316.63	201.08	96.44	10.92		
360.0	973.33	864.48	753.86	636.10	519.23	397.89	283.70	173.08	66.91		

Shenzhen Wisdom Light Co.,Ltd. the half of model WL-2LSD8FT70WBDHV(40K)-T

Intensity data(cd)										Appendix Page: 11 Total:12	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	7.14	0.89	0.89	0.89	0.89	0.89	0.89	0.89	1.78	1.78	
15.0	7.19	1.80	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	
30.0	8.08	1.80	0.90	0.90	0.90	0.90	0.90	1.80	1.80	1.80	
45.0	8.11	1.80	1.80	0.90	0.90	0.90	1.80	1.80	1.80	2.70	
60.0	8.98	1.80	1.80	0.90	0.90	0.90	1.80	1.80	1.80	2.69	
75.0	15.49	1.82	1.82	0.91	0.91	0.91	1.82	1.82	1.82	2.73	
90.0	23.73	1.83	1.83	0.91	0.91	0.91	1.83	1.83	1.83	2.74	
105.0	15.53	1.83	1.83	0.91	0.91	0.91	1.83	1.83	1.83	2.74	
120.0	9.12	1.82	1.82	0.91	0.91	0.91	1.82	1.82	1.82	2.74	
135.0	8.21	1.83	0.91	0.91	0.91	0.91	1.83	1.83	1.83	2.74	
150.0	8.21	1.83	0.91	0.91	0.91	0.91	1.83	1.83	1.83	2.74	
165.0	8.19	1.82	0.91	0.91	0.91	0.91	0.91	1.82	1.82	1.82	
180.0	2.68	2.68	2.68	2.68	1.78	1.78	1.78	1.78	1.78	1.78	
195.0	2.70	2.70	2.70	2.70	2.70	2.70	1.80	1.80	1.80	1.80	
210.0	2.69	2.69	2.69	2.69	2.69	2.69	1.80	1.80	1.80	1.80	
225.0	3.61	2.70	2.70	2.70	2.70	2.70	2.70	1.80	1.80	1.80	
240.0	3.59	3.59	2.69	2.69	2.69	2.69	2.69	2.69	2.69	1.80	
255.0	3.64	3.64	3.64	3.64	2.73	2.73	2.73	2.73	2.73	1.82	
270.0	5.48	3.65	3.65	3.65	2.74	2.74	2.74	2.74	2.74	2.74	
285.0	3.65	3.65	3.65	2.74	2.74	2.74	2.74	2.74	2.74	1.83	
300.0	3.65	3.65	3.65	2.74	2.74	2.74	2.74	2.74	2.74	1.82	
315.0	3.65	2.74	2.74	2.74	2.74	2.74	2.74	1.83	1.83	1.83	
330.0	3.65	2.74	2.74	2.74	2.74	2.74	2.74	1.83	1.83	1.83	
345.0	2.73	2.73	2.73	2.73	2.73	1.82	1.82	1.82	1.82	1.82	
360.0	7.14	0.89	0.89	0.89	0.89	0.89	0.89	1.78	1.78	1.78	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	2.68	2.68	3.57	4.46	5.35	6.24	7.14	8.03	8.03	8.03	
15.0	2.70	2.70	3.60	4.50	5.40	6.29	7.19	8.09	8.09	8.09	
30.0	2.69	2.69	3.59	4.49	5.39	6.29	7.19	8.08	8.08	8.08	
45.0	2.70	2.70	3.61	4.51	5.41	6.31	7.21	8.11	8.11	8.11	
60.0	2.69	3.59	3.59	4.49	5.39	6.28	7.18	8.08	8.08	8.08	
75.0	2.73	3.64	3.64	4.55	5.47	6.38	7.29	8.20	8.20	8.20	
90.0	2.74	3.65	3.65	4.56	5.48	6.39	7.30	8.21	8.21	8.21	
105.0	2.74	3.65	3.65	4.57	5.48	6.39	7.31	8.22	8.22	8.22	
120.0	2.74	3.65	3.65	4.56	5.47	6.38	7.30	8.21	8.21	8.21	
135.0	2.74	3.65	3.65	4.56	5.48	6.39	7.30	8.21	8.21	8.21	
150.0	2.74	2.74	3.65	4.56	5.48	6.39	7.30	8.21	8.21	8.21	
165.0	2.73	2.73	3.64	4.55	5.46	6.37	7.28	8.19	8.19	8.19	
180.0	1.78	2.68	2.68	3.57	4.46	6.24	7.14	7.14	8.03	8.03	
195.0	1.80	2.70	2.70	3.60	4.50	6.29	6.29	7.19	8.09	8.09	
210.0	1.80	2.69	2.69	3.59	4.49	5.39	6.29	7.19	8.08	8.08	
225.0	1.80	2.70	2.70	3.61	4.51	6.31	7.21	7.21	8.11	8.11	
240.0	1.80	2.69	2.69	3.59	4.49	6.28	7.18	7.18	8.08	8.08	
255.0	1.82	2.73	2.73	3.64	4.55	6.38	7.29	7.29	8.20	8.20	
270.0	1.83	2.74	2.74	3.65	4.56	6.39	7.30	7.30	8.21	8.21	
285.0	1.83	2.74	2.74	3.65	4.57	6.39	7.31	8.22	8.22	8.22	
300.0	1.82	2.74	2.74	3.65	4.56	6.38	7.30	7.30	8.21	8.21	
315.0	1.83	2.74	2.74	3.65	4.56	6.39	7.30	7.30	8.21	8.21	
330.0	1.83	2.74	2.74	3.65	4.56	6.39	6.39	7.30	8.21	8.21	
345.0	1.82	2.73	2.73	3.64	4.55	6.37	7.28	7.28	8.19	8.19	
360.0	2.68	2.68	3.57	4.46	5.35	6.24	7.14	8.03	8.03	8.03	

Intensity data(cd)

Appendix Page: 12 Total:12

C/γ(°)	180.0
0.0	8.92
15.0	8.99
30.0	8.98
45.0	9.01
60.0	8.98
75.0	9.11
90.0	9.13
105.0	9.13
120.0	9.12
135.0	9.13
150.0	9.13
165.0	9.10
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	8.92