
Shenzhen Wisdom Light Co.,Ltd.

Client:

LumCAT: the half of model WL-2LSD8FT70WBDHV(35K)-T

Luminaire: Wisdom Light

Report No:

Ballast type:

Test No: LCZP21030283

Voltage(V): 120.000

LampCAT:

Current(A): 0.267

Lamp flux(lm): 3943.0

Power (W): 31.900

Number of Lamps: 1

PF: 0.997

Length(mm): 1200

Width(mm): 60

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3942.95, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 123.60

Central intensity(cd): 1420.156, Maximum intensity(cd): 1420.156

Angle of maximum intensity: C=0.0 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(%): 0.46%

Down flux rate of lamp(%): 99.54%

Up flux rate of LUM(%): 0.46%

Down flux rate of LUM(%): 99.54%

CIE Type : Direct lighting

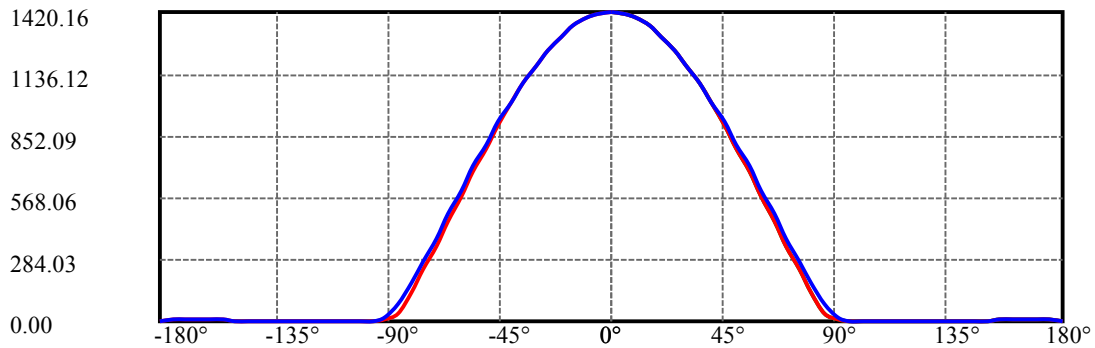
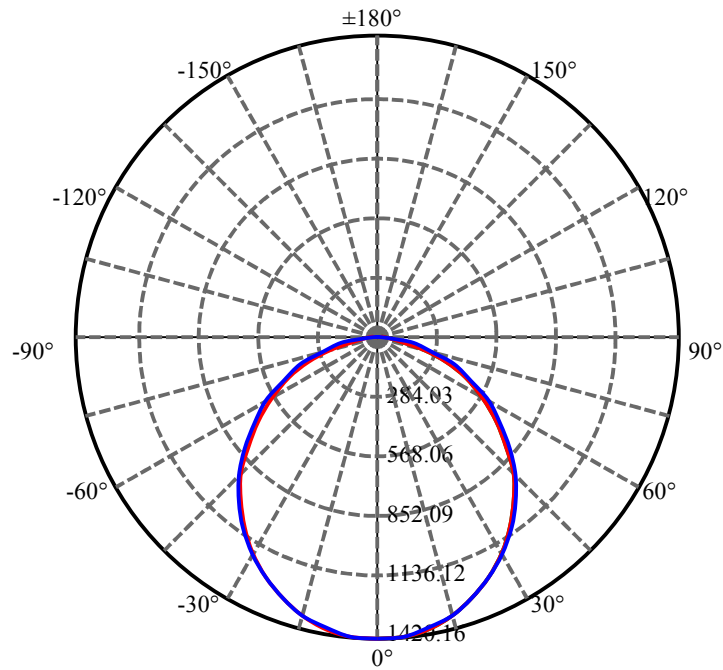
Output flux ratio in π solid angle : 78.804%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1420.156	0.000	0	0.00%	0.00%
5.0	1412.981	33.869	33.869	0.86%	0.86%
10.0	1391.329	100.319	134.188	2.54%	3.40%
15.0	1355.607	162.946	297.135	4.13%	7.54%
20.0	1307.249	219.457	516.591	5.57%	13.10%
25.0	1246.491	267.840	784.432	6.79%	19.89%
30.0	1177.018	306.697	1091.129	7.78%	27.67%
35.0	1094.725	334.530	1425.659	8.48%	36.16%
40.0	1006.736	350.613	1776.272	8.89%	45.05%
45.0	912.951	355.446	2131.718	9.01%	54.06%
50.0	808.490	347.842	2479.56	8.82%	62.89%
55.0	702.179	328.470	2808.03	8.33%	71.22%
60.0	592.050	299.157	3107.187	7.59%	78.80%
65.0	476.697	259.814	3367.001	6.59%	85.39%
70.0	365.046	213.135	3580.136	5.41%	90.80%
75.0	257.447	162.710	3742.846	4.13%	94.92%
80.0	150.610	109.185	3852.031	2.77%	97.69%
85.0	55.097	55.896	3907.926	1.42%	99.11%
90.0	6.788	16.944	3924.871	0.43%	99.54%
95.0	2.270	2.480	3927.351	0.06%	99.60%
100.0	2.047	1.173	3928.524	0.03%	99.63%
105.0	1.888	1.053	3929.577	0.03%	99.66%
110.0	1.760	0.954	3930.53	0.02%	99.68%
115.0	1.733	0.885	3931.415	0.02%	99.71%
120.0	1.900	0.883	3932.298	0.02%	99.73%
125.0	2.111	0.927	3933.225	0.02%	99.75%
130.0	2.198	0.937	3934.162	0.02%	99.78%
135.0	2.330	0.915	3935.077	0.02%	99.80%
140.0	2.696	0.931	3936.008	0.02%	99.82%
145.0	3.247	0.992	3936.999	0.03%	99.85%
150.0	4.006	1.068	3938.067	0.03%	99.88%
155.0	5.014	1.142	3939.209	0.03%	99.90%
160.0	5.931	1.148	3940.357	0.03%	99.93%
165.0	6.751	1.045	3941.402	0.03%	99.96%
170.0	7.521	0.847	3942.248	0.02%	99.98%
175.0	8.110	0.559	3942.808	0.01%	100.00%
180.0	4.206	0.147	3942.955	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1091.13	27.67%	27.67%
0-40	1776.27	45.05%	45.05%
0-60	3107.19	78.80%	78.80%
0-90	3924.87	99.54%	99.54%
0-120	3932.30	99.73%	99.73%
0-180	3942.95	100.00%	100.00%
60-90	817.68	20.74%	20.74%
90-120	7.43	0.19%	0.19%
90-130	9.29	0.24%	0.24%
90-150	13.20	0.33%	0.33%
90-180	17.94	0.45%	0.45%
0-60.91	3154.36	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	134.19
10-20	382.40
20-30	574.54
30-40	685.14
40-50	703.29
50-60	627.63
60-70	472.95
70-80	271.89
80-90	72.84
90-100	3.65
100-110	2.01
110-120	1.77
120-130	1.86
130-140	1.85
140-150	2.06
150-160	2.29
160-170	1.89
170-180	0.56



C0(Max): —————

C0/C180: —————

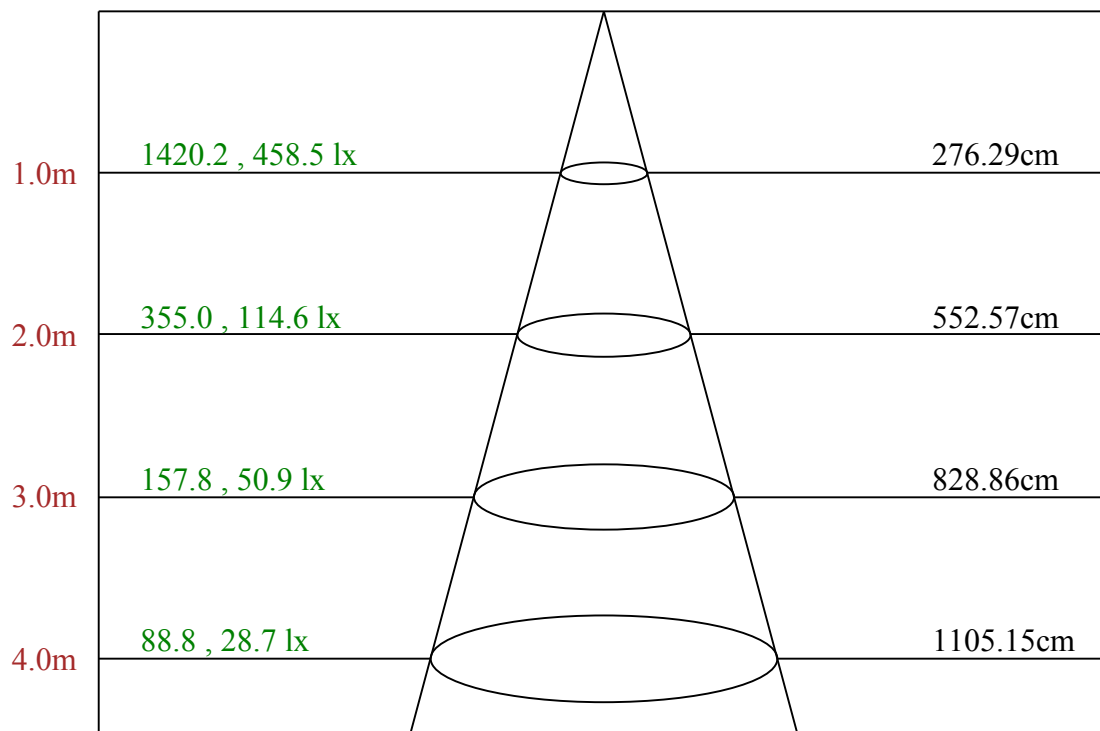
C90/C270: —————

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

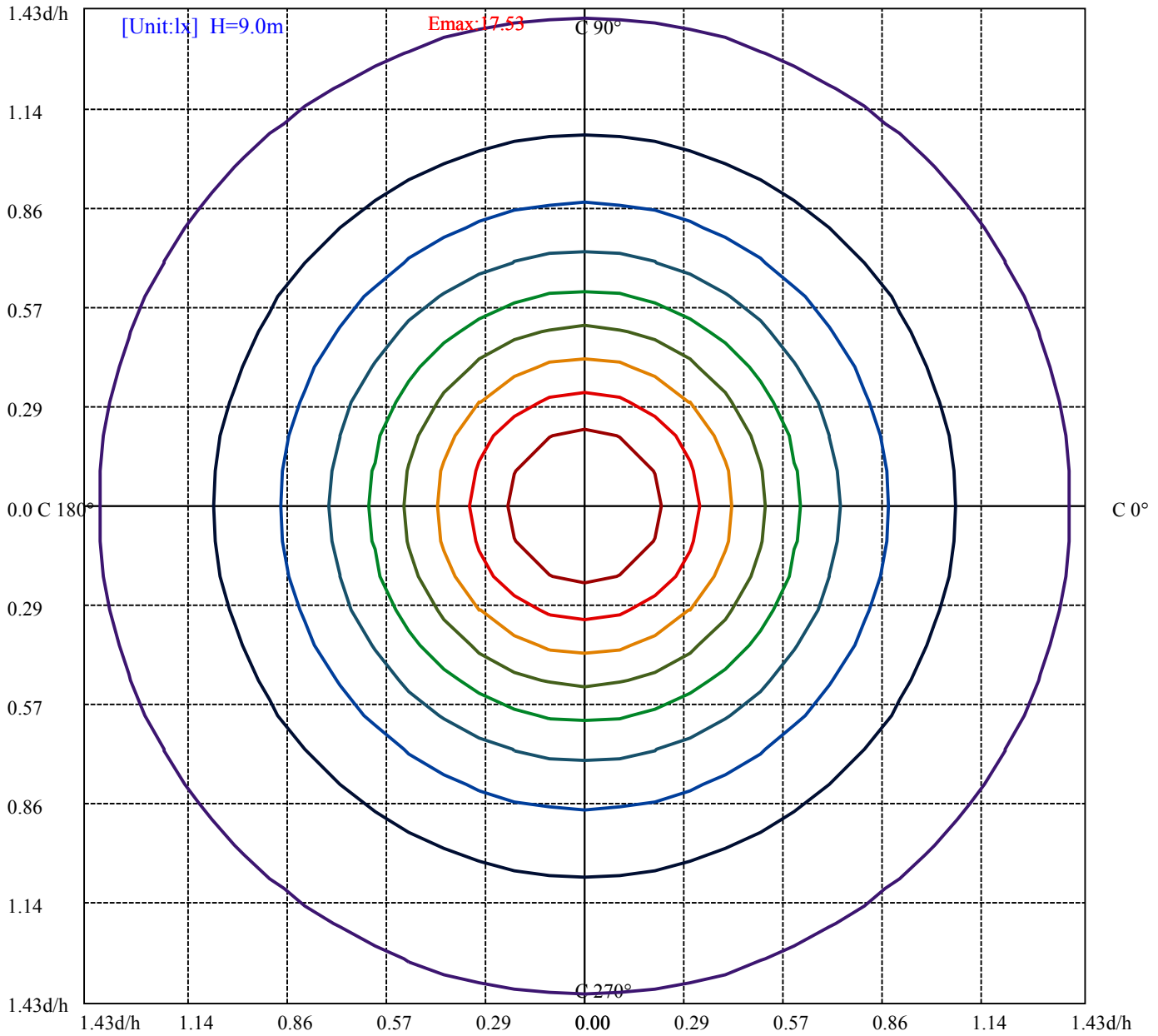
:C90/270Left:81.7 Right:81.7

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

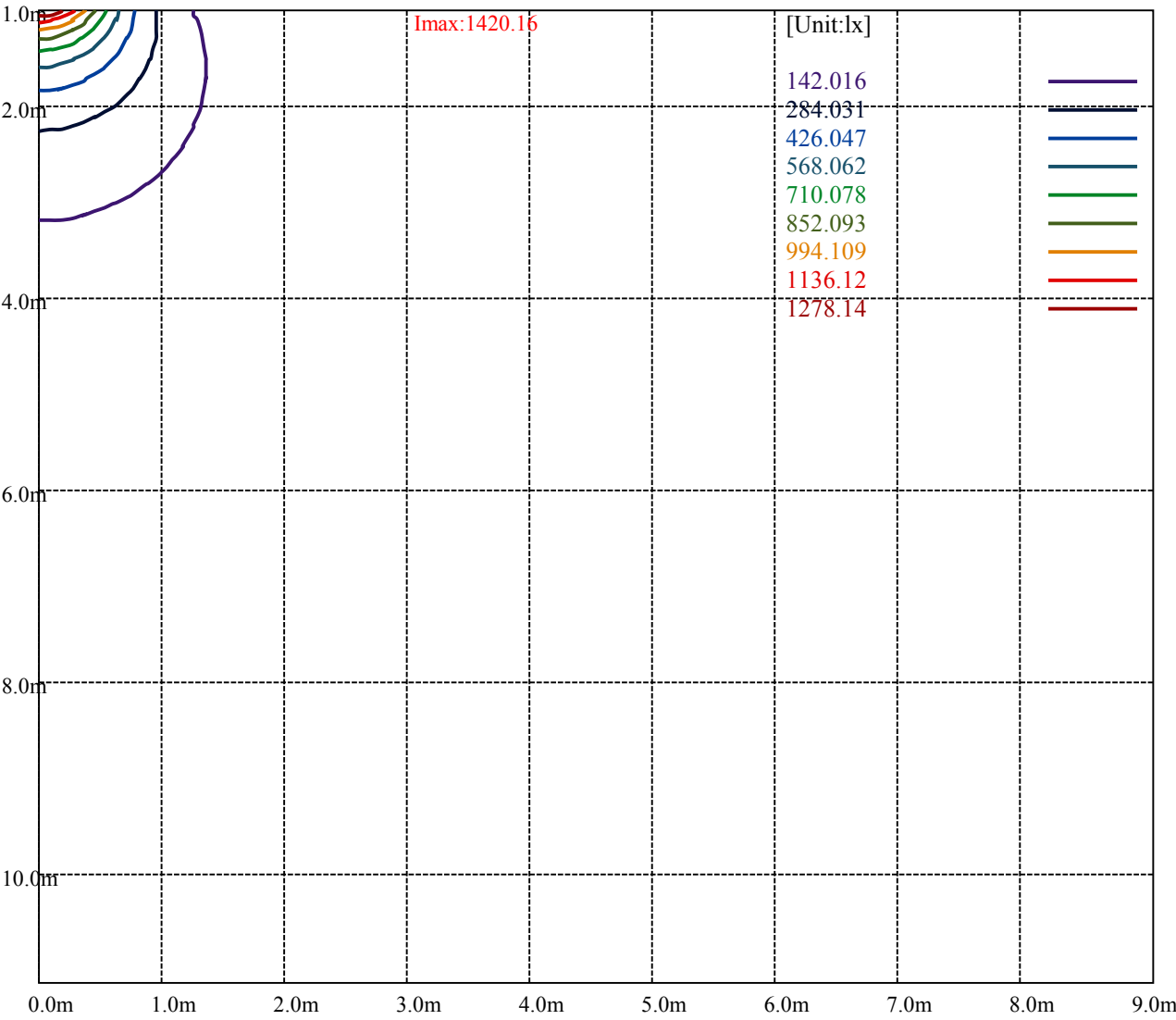
:C90/270Left:55.1 Right:55.1



Max , Ave Beam angle of C0 plane 108.20



(10%Emax) 1.753284	—
(20%Emax) 3.506556	—
(30%Emax) 5.25984	—
(40%Emax) 7.013111	—
(50%Emax) 8.766396	—
(60%Emax) 10.51967	—
(70%Emax) 12.27295	—
(80%Emax) 14.02617	—
(90%Emax) 15.77951	—



Luminance Table

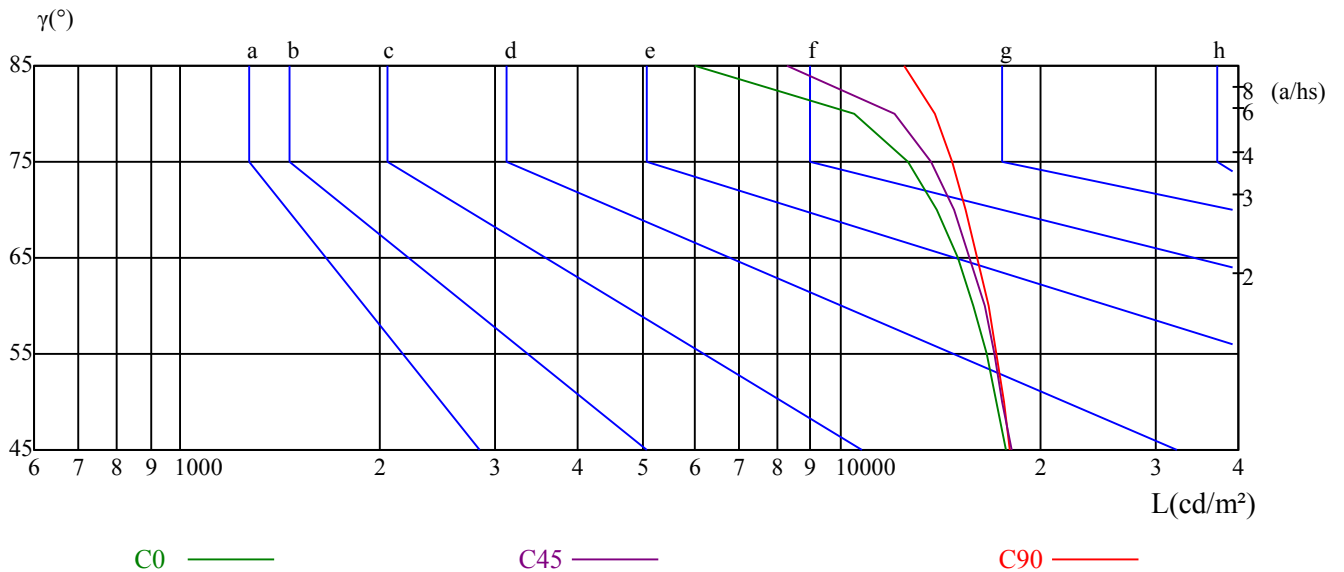
γ	45	50	55	60	65	70	75	80	85
C0	17744	17211	16651	15918	15072	13981	12609	10456	6027
C45	18176	17555	17068	16469	15696	14836	13662	12020	8303
C90	17999	17627	17232	16707	16135	15480	14788	13877	12468

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15072	16135	15696	12609	14788	13662	6027	12468	8303

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(35K)-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	1420.16	1419.35	1401.69	1369.22	1326.04	1270.74	1200.71	1120.87	1036.48		
15.0	1420.16	1418.99	1401.72	1371.05	1325.99	1269.70	1201.43	1123.73	1038.02		
30.0	1420.16	1417.46	1400.58	1368.26	1326.50	1270.29	1200.88	1124.47	1037.28		
45.0	1420.16	1418.26	1401.50	1373.38	1327.86	1274.15	1207.27	1129.94	1044.95		
60.0	1420.16	1418.09	1399.69	1369.99	1324.94	1268.40	1200.20	1123.47	1035.79		
75.0	1420.16	1417.24	1402.39	1370.58	1327.66	1271.25	1204.00	1128.63	1043.43		
90.0	1420.16	1417.96	1402.54	1372.14	1328.13	1271.62	1204.61	1129.48	1044.39		
105.0	1420.16	1418.33	1402.53	1374.86	1332.21	1276.51	1207.10	1132.40	1048.84		
120.0	1420.16	1418.51	1403.37	1373.37	1331.42	1274.24	1209.49	1131.14	1048.52		
135.0	1420.16	1419.06	1401.63	1372.88	1327.88	1274.40	1204.85	1129.46	1041.93		
150.0	1420.16	1419.24	1404.28	1371.79	1329.71	1271.94	1206.42	1126.38	1042.32		
165.0	1420.16	1419.88	1402.14	1371.10	1327.97	1269.45	1203.83	1127.84	1042.66		
180.0	1420.16	1409.63	1381.98	1338.89	1284.92	1218.55	1143.89	1059.76	966.28		
195.0	1420.16	1405.59	1380.31	1337.69	1285.70	1218.70	1144.96	1060.15	970.75		
210.0	1420.16	1405.88	1379.48	1337.37	1283.85	1218.30	1142.25	1059.55	966.79		
225.0	1420.16	1406.10	1381.31	1340.12	1285.23	1223.04	1149.41	1065.05	971.95		
240.0	1420.16	1405.89	1379.05	1339.84	1283.93	1220.66	1142.14	1055.45	964.63		
255.0	1420.16	1406.67	1379.33	1339.14	1286.74	1221.04	1148.14	1065.03	975.72		
270.0	1420.16	1406.01	1379.71	1339.18	1286.50	1222.32	1150.11	1064.93	975.19		
285.0	1420.16	1408.01	1381.43	1340.16	1289.38	1223.08	1149.84	1065.00	976.24		
300.0	1420.16	1408.85	1381.30	1342.54	1289.01	1225.35	1150.94	1068.04	976.74		
315.0	1420.16	1408.56	1381.37	1339.38	1288.73	1221.37	1148.45	1062.38	972.66		
330.0	1420.16	1408.66	1382.37	1341.03	1286.73	1221.02	1181.68	1059.85	969.77		
345.0	1420.16	1409.33	1380.20	1340.62	1286.92	1219.67	1145.86	1060.41	970.31		
360.0	1420.16	1419.35	1401.69	1369.22	1326.04	1270.74	1200.71	1120.87	1036.48		

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	942.10	837.02	729.97	615.79	502.85	385.37	274.49	167.53	64.94		
15.0	943.32	840.98	734.32	618.03	504.71	391.13	280.42	170.25	70.33		
30.0	946.59	843.60	738.09	624.06	511.91	396.07	285.99	175.45	75.69		
45.0	952.12	853.88	746.81	635.77	521.57	405.85	294.99	188.64	87.88		
60.0	944.53	843.66	742.43	634.56	526.24	412.54	303.68	195.99	97.19		
75.0	951.93	854.79	754.37	643.01	535.38	426.39	318.50	209.87	110.90		
90.0	953.56	855.42	753.44	644.35	535.80	423.87	316.60	213.63	113.75		
105.0	955.69	859.16	753.68	643.73	534.78	426.84	316.43	210.86	111.60		
120.0	957.78	858.55	756.86	646.42	530.69	419.97	309.80	200.18	99.77		
135.0	951.94	855.20	748.41	634.87	523.34	408.07	298.36	191.94	87.25		
150.0	947.23	848.39	742.70	629.54	517.65	401.38	286.66	180.43	79.13		
165.0	948.01	842.81	736.33	625.67	510.27	394.15	283.12	171.91	70.62		
180.0	864.67	756.02	645.31	530.33	414.36	303.21	195.45	93.93	10.70		
195.0	866.61	761.66	648.34	536.64	419.99	308.75	196.96	94.79	10.79		
210.0	867.39	762.16	653.69	539.65	424.00	312.57	201.85	99.76	13.65		
225.0	877.31	771.68	663.89	552.40	436.40	325.09	213.51	111.40	17.39		
240.0	869.59	764.95	661.12	549.93	436.41	327.47	222.38	122.23	26.65		
255.0	877.30	776.42	668.98	558.35	448.81	340.82	232.47	131.77	35.81		
270.0	879.15	776.17	669.82	558.53	446.15	338.51	234.53	133.38	42.73		
285.0	877.70	776.42	671.95	559.35	448.48	340.54	281.91	131.41	34.52		
300.0	881.90	776.84	670.68	610.03	440.86	331.51	224.08	118.83	22.62		
315.0	920.18	769.04	660.34	548.44	429.15	322.36	211.47	109.16	15.88		
330.0	868.10	762.33	653.08	538.46	422.28	311.67	200.14	97.93	12.32		
345.0	866.11	756.63	647.69	531.30	418.63	306.96	194.94	93.37	10.19		
360.0	942.10	837.02	729.97	615.79	502.85	385.37	274.49	167.53	64.94		

Shenzhen Wisdom Light Co.,Ltd. the half of model WL-2LSD8FT70WBDHV(35K)-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	6.78	1.25	1.07	0.89	0.71	0.80	1.25	1.78	2.05		
15.0	7.01	1.35	1.17	0.99	0.81	0.90	1.35	1.89	2.16		
30.0	7.63	1.53	1.26	1.08	0.90	0.99	1.26	1.80	2.16		
45.0	7.48	1.71	1.35	1.26	0.99	1.08	1.35	1.98	2.34		
60.0	8.26	1.88	1.53	1.26	1.08	1.17	1.53	2.06	2.33		
75.0	15.04	1.91	1.46	1.28	1.18	1.09	1.55	2.10	2.55		
90.0	23.01	1.73	1.55	1.19	1.19	1.10	1.55	2.19	2.56		
105.0	14.79	1.74	1.37	1.19	1.10	1.10	1.64	2.10	2.47		
120.0	8.76	1.64	1.37	1.09	1.09	1.00	1.46	2.10	2.37		
135.0	7.67	1.55	1.19	1.10	0.91	0.91	1.37	2.01	2.37		
150.0	7.76	1.46	1.19	0.91	0.82	0.91	1.37	1.83	2.28		
165.0	7.64	1.37	1.09	1.00	0.82	0.91	1.27	1.82	2.09		
180.0	2.50	2.41	2.32	2.23	2.14	2.14	2.14	2.05	1.96		
195.0	2.70	2.43	2.34	2.34	2.25	2.25	2.16	2.07	1.98		
210.0	2.96	2.60	2.51	2.42	2.33	2.24	2.16	2.16	1.98		
225.0	3.33	2.88	2.70	2.61	2.52	2.43	2.34	2.16	2.07		
240.0	3.68	3.14	2.96	2.78	2.69	2.60	2.51	2.33	2.06		
255.0	3.83	3.37	3.19	3.10	2.83	2.83	2.73	2.46	2.19		
270.0	5.02	3.56	3.29	3.20	2.92	2.92	2.65	2.56	2.28		
285.0	3.93	3.47	3.20	3.01	2.92	2.74	2.56	2.47	2.19		
300.0	3.74	3.19	3.10	2.92	2.74	2.64	2.55	2.37	2.19		
315.0	3.56	3.01	2.83	2.74	2.56	2.37	2.37	2.19	2.10		
330.0	3.10	2.74	2.65	2.46	2.37	2.28	2.28	2.10	2.01		
345.0	2.73	2.55	2.46	2.28	2.37	2.18	2.18	2.09	2.00		
360.0	6.78	1.25	1.07	0.89	0.71	0.80	1.25	1.78	2.05		
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	2.41	2.68	3.30	4.01	5.00	5.98	6.69	7.40	7.85		
15.0	2.43	2.88	3.33	4.05	5.04	6.03	6.75	7.46	7.91		
30.0	2.51	2.87	3.41	4.13	5.21	6.02	6.82	7.45	7.90		
45.0	2.52	2.88	3.52	4.24	5.23	6.13	6.85	7.57	8.02		
60.0	2.69	3.05	3.59	4.31	5.29	6.10	6.91	7.63	8.08		
75.0	2.83	3.10	3.74	4.37	5.47	6.38	7.11	7.75	8.20		
90.0	2.83	3.38	3.83	4.47	5.57	6.30	7.12	7.85	8.22		
105.0	2.83	3.29	3.74	4.38	5.48	6.30	7.12	7.76	8.22		
120.0	2.74	3.10	3.65	4.38	5.47	6.20	6.93	7.66	8.30		
135.0	2.65	3.10	3.56	4.29	5.38	6.21	6.94	7.67	8.12		
150.0	2.56	3.01	3.56	4.20	5.29	6.11	6.94	7.76	8.12		
165.0	2.46	2.82	3.46	4.10	5.19	6.01	6.83	7.55	8.19		
180.0	1.87	2.32	2.94	3.66	4.64	5.62	6.51	7.23	8.03		
195.0	1.89	2.25	2.88	3.78	4.68	5.67	6.12	7.37	8.09		
210.0	1.89	2.24	2.87	3.32	4.67	5.57	6.47	7.36	7.99		
225.0	1.98	2.34	2.88	3.79	4.69	5.68	6.58	7.39	8.02		
240.0	2.15	2.33	2.87	3.86	4.67	5.65	6.55	7.36	7.99		
255.0	2.19	2.55	3.01	3.83	4.83	5.74	6.74	7.47	8.20		
270.0	2.19	2.56	3.01	3.93	4.84	5.84	6.76	7.49	8.22		
285.0	2.10	2.47	3.01	3.93	4.84	5.84	6.76	7.67	8.31		
300.0	2.19	2.46	3.01	3.74	4.74	5.75	6.66	7.48	8.21		
315.0	2.10	2.37	2.92	3.83	4.84	5.75	6.66	7.48	8.21		
330.0	1.92	2.37	2.92	3.83	4.65	5.75	6.57	7.39	8.21		
345.0	2.00	2.28	2.91	3.73	4.64	5.73	6.64	7.28	8.01		
360.0	2.41	2.68	3.30	4.01	5.00	5.98	6.69	7.40	7.85		

Intensity data(cd)

Appendix Page: 12 Total:12

C/γ(°)	180.0
0.0	8.47
15.0	8.27
30.0	8.26
45.0	8.29
60.0	8.35
75.0	8.48
90.0	8.58
105.0	8.49
120.0	8.48
135.0	8.40
150.0	8.40
165.0	8.46
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	8.47