
Shenzhen Wisdom Light Co.,Ltd.

Client:

LumCAT: the half of model WL-2LSD8FT70WBDHV(50K)-T

Luminaire: Wisdom Light

Report No:

Ballast type:

Test No: LCZP21030283

Voltage(V): 120.110

LampCAT:

Current(A): 0.267

Lamp flux(lm): 4167.4

Power (W): 32.010

Number of Lamps: 1

PF: 0.997

Length(mm): 1200

Width(mm): 60

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 4167.37, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 130.19

Central intensity(cd): 1501.108, Maximum intensity(cd): 1501.108

Angle of maximum intensity: C=15.0 γ =0.0

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

[C90/270]Total=110.2

Field angle(10%Imax): [C0/180]Total=158.8

[C90/270]Total=163.2

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

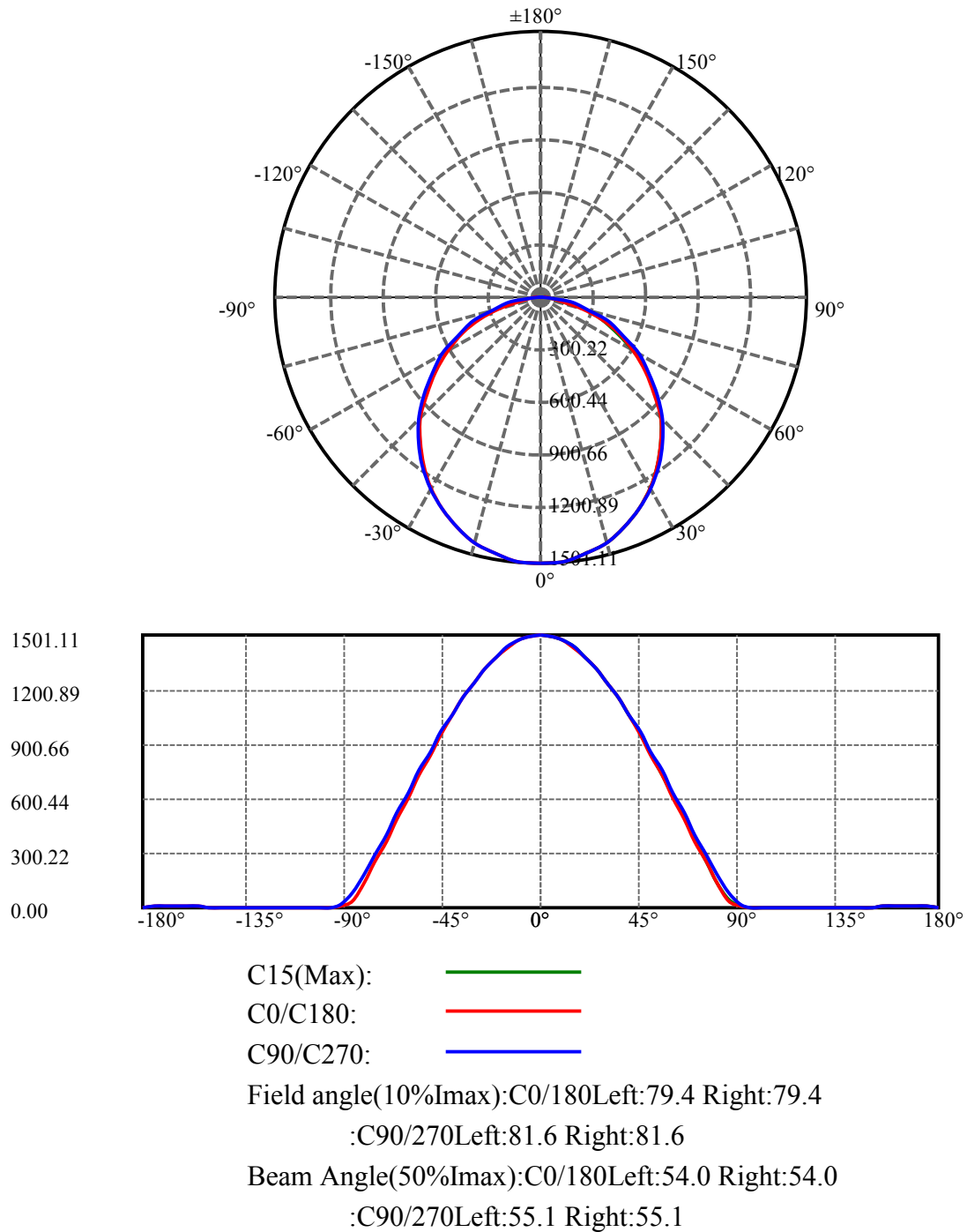
Output flux ratio in π solid angle : 78.804%

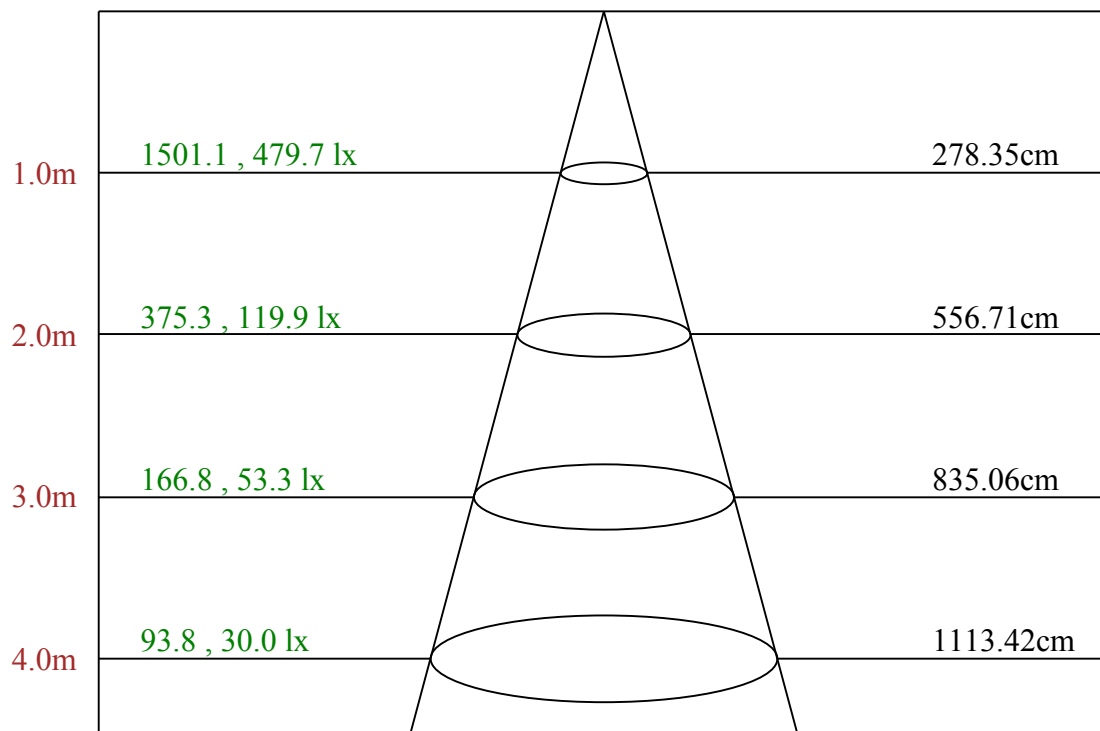
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1501.108	0.000	0	0.00%	0.00%
5.0	1493.447	35.799	35.799	0.86%	0.86%
10.0	1470.459	106.028	141.827	2.54%	3.40%
15.0	1432.789	172.219	314.046	4.13%	7.54%
20.0	1381.567	231.942	545.988	5.57%	13.10%
25.0	1317.387	283.070	829.059	6.79%	19.89%
30.0	1244.057	324.153	1153.212	7.78%	27.67%
35.0	1157.110	353.589	1506.8	8.48%	36.16%
40.0	1064.062	370.586	1877.386	8.89%	45.05%
45.0	964.872	375.674	2253.06	9.01%	54.06%
50.0	854.487	367.628	2620.688	8.82%	62.89%
55.0	742.148	347.162	2967.85	8.33%	71.22%
60.0	625.821	316.202	3284.052	7.59%	78.80%
65.0	503.915	274.641	3558.693	6.59%	85.39%
70.0	385.880	225.302	3783.995	5.41%	90.80%
75.0	272.194	172.010	3956.005	4.13%	94.93%
80.0	159.078	115.396	4071.401	2.77%	97.70%
85.0	58.237	59.050	4130.451	1.42%	99.11%
90.0	7.147	17.903	4148.354	0.43%	99.54%
95.0	2.417	2.619	4150.973	0.06%	99.61%
100.0	2.191	1.252	4152.225	0.03%	99.64%
105.0	1.888	1.092	4153.317	0.03%	99.66%
110.0	1.812	0.967	4154.284	0.02%	99.69%
115.0	1.812	0.918	4155.201	0.02%	99.71%
120.0	2.153	0.964	4156.165	0.02%	99.73%
125.0	2.153	0.995	4157.16	0.02%	99.76%
130.0	2.342	0.977	4158.138	0.02%	99.78%
135.0	2.417	0.962	4159.099	0.02%	99.80%
140.0	2.946	0.993	4160.092	0.02%	99.83%
145.0	3.171	1.021	4161.113	0.02%	99.85%
150.0	4.191	1.084	4162.197	0.03%	99.88%
155.0	5.135	1.180	4163.377	0.03%	99.90%
160.0	6.343	1.204	4164.581	0.03%	99.93%
165.0	7.211	1.117	4165.698	0.03%	99.96%
170.0	8.117	0.909	4166.607	0.02%	99.98%
175.0	8.685	0.601	4167.208	0.01%	100.00%
180.0	4.530	0.158	4167.366	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1153.21	27.67%	27.67%
0-40	1877.39	45.05%	45.05%
0-60	3284.05	78.80%	78.80%
0-90	4148.35	99.54%	99.54%
0-120	4156.17	99.73%	99.73%
0-180	4167.37	100.00%	100.00%
60-90	864.30	20.74%	20.74%
90-120	7.81	0.19%	0.19%
90-130	9.78	0.23%	0.23%
90-150	13.84	0.33%	0.33%
90-180	18.85	0.45%	0.45%
0-60.91	3333.89	80.00%	80.00%

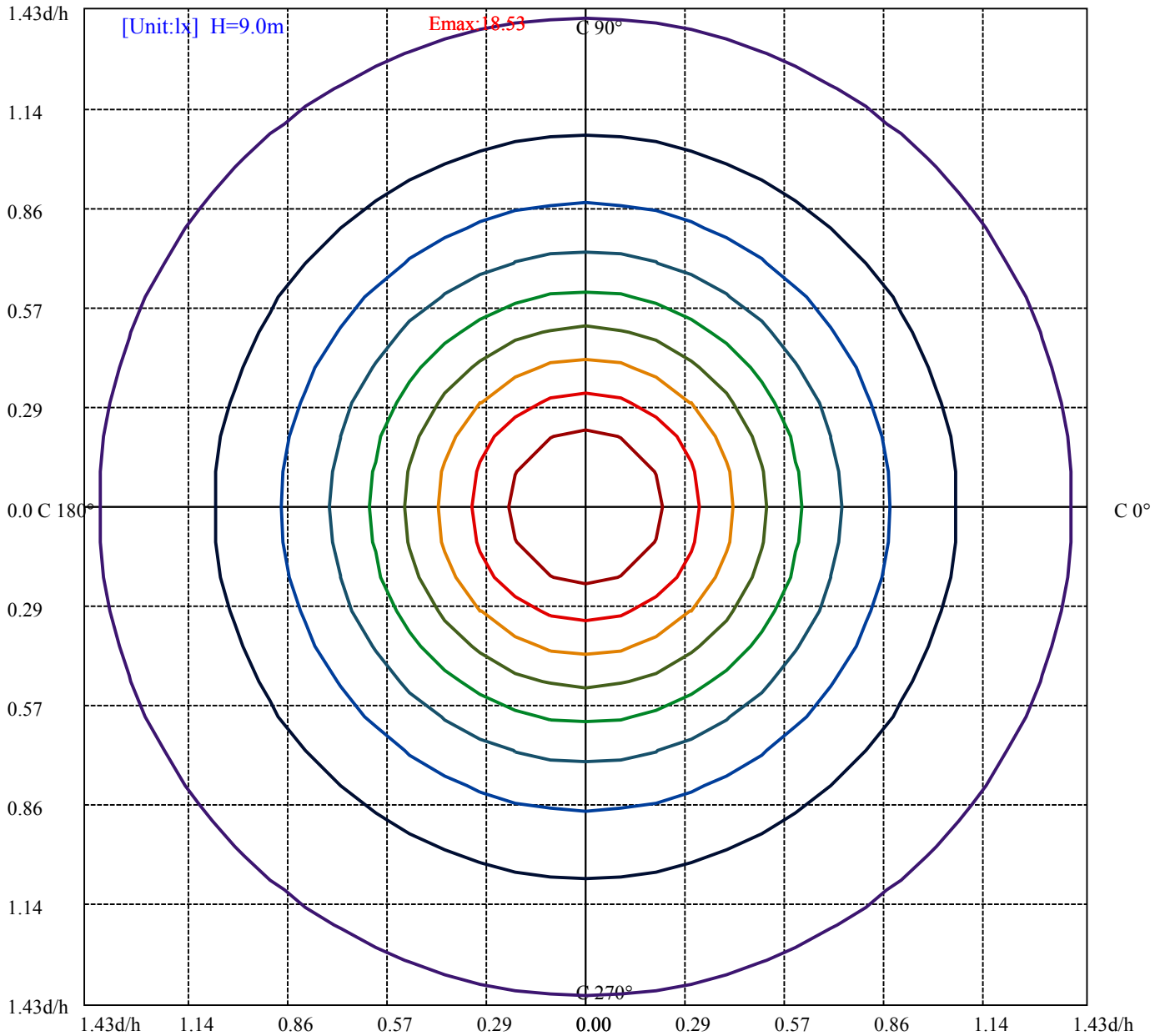
ZONAL LUMEN SUMMARY

0-10	141.83
10-20	404.16
20-30	607.22
30-40	724.17
40-50	743.30
50-60	663.36
60-70	499.94
70-80	287.41
80-90	76.95
90-100	3.87
100-110	2.06
110-120	1.88
120-130	1.97
130-140	1.95
140-150	2.10
150-160	2.38
160-170	2.03
170-180	0.60

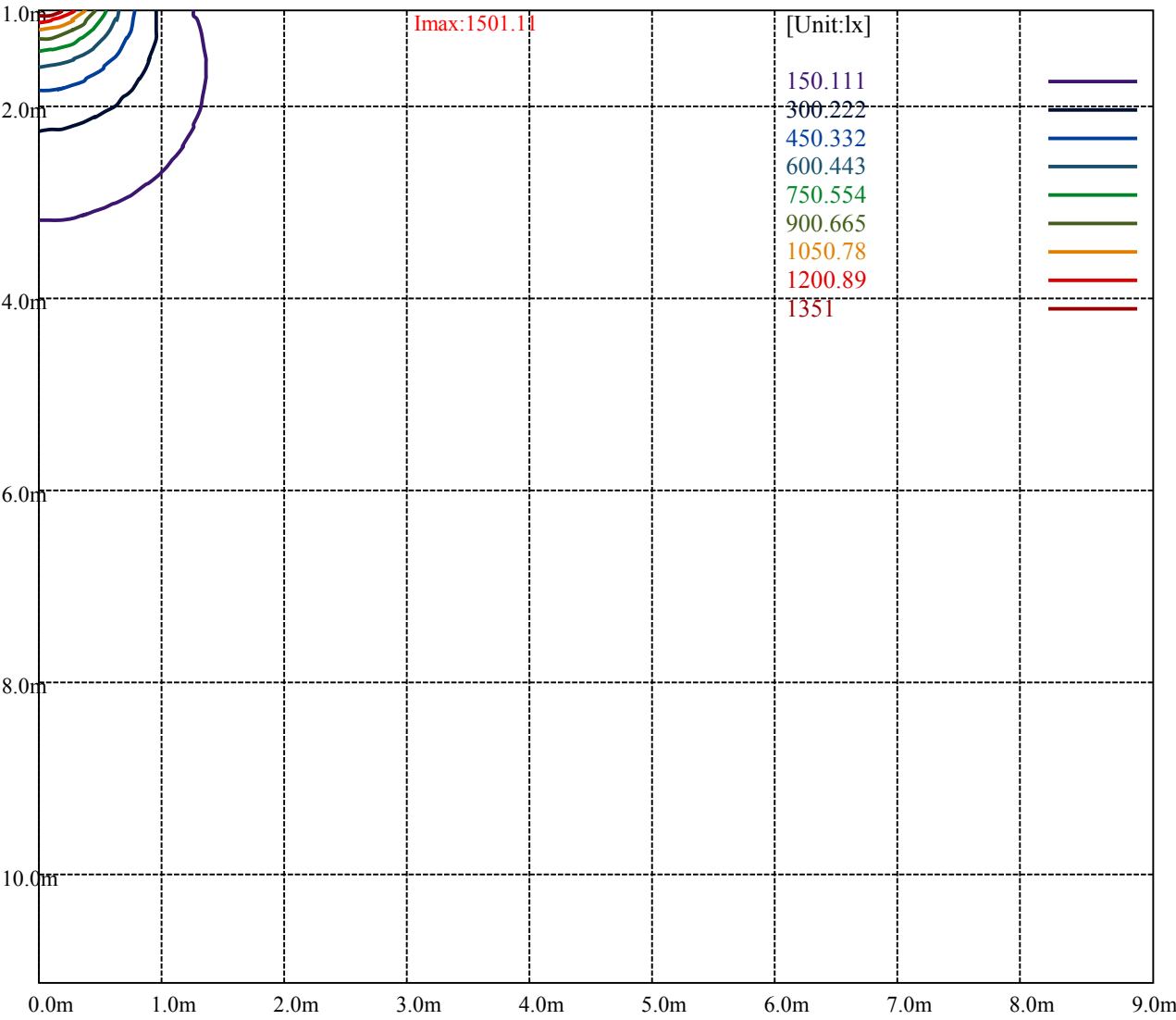




Max , Ave Beam angle of C15 plane 108.60



(10%Emax) 1.853222	
(20%Emax) 3.706444	
(30%Emax) 5.559654	
(40%Emax) 7.412877	
(50%Emax) 9.266099	
(60%Emax) 11.11932	
(70%Emax) 12.97259	
(80%Emax) 14.8258	
(90%Emax) 16.67901	



Luminance Table

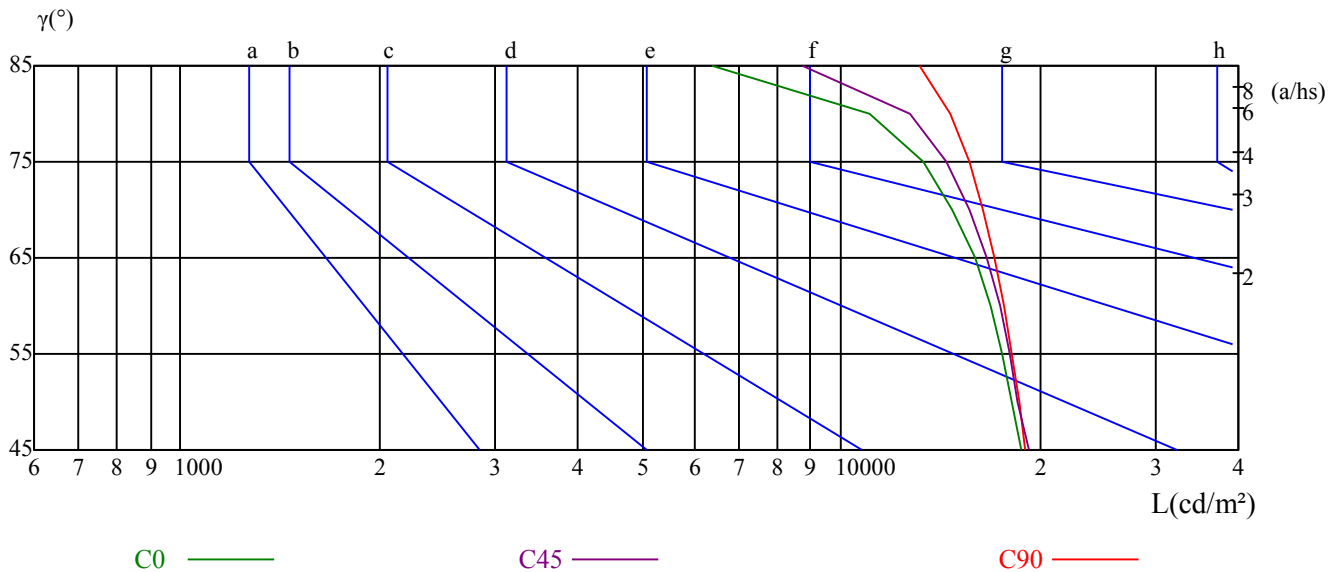
γ	45	50	55	60	65	70	75	80	85
C0	18745	18193	17602	16823	15931	14778	13330	11022	6396
C45	19215	18554	18048	17409	16595	15681	14444	12696	8744
C90	19029	18634	18207	17666	17059	16370	15655	14643	13168

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15931	17059	16595	13330	15655	14444	6396	13168	8744

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(50K)-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	1501.11	1500.22	1481.49	1446.70	1401.21	1343.24	1269.21	1184.47	1095.28		
15.0	1501.11	1500.21	1481.32	1448.94	1401.27	1341.91	1269.96	1188.11	1097.27		
30.0	1501.11	1497.52	1480.46	1446.34	1401.45	1342.20	1269.48	1188.68	1096.20		
45.0	1501.11	1499.30	1481.27	1452.42	1403.74	1346.94	1276.62	1194.58	1104.42		
60.0	1501.11	1498.42	1478.68	1447.27	1399.72	1340.50	1268.72	1187.07	1094.65		
75.0	1501.11	1498.37	1481.97	1449.16	1403.59	1343.43	1272.34	1193.05	1102.82		
90.0	1501.11	1499.28	1482.85	1450.89	1404.32	1344.06	1273.75	1194.31	1103.92		
105.0	1501.11	1498.37	1481.93	1452.71	1407.97	1348.62	1275.58	1197.05	1108.48		
120.0	1501.11	1499.28	1482.87	1451.86	1407.17	1346.98	1278.59	1195.60	1108.05		
135.0	1501.11	1499.28	1481.03	1450.92	1403.47	1346.89	1272.98	1193.59	1101.42		
150.0	1501.11	1500.20	1483.77	1450.01	1405.29	1344.15	1274.80	1189.94	1101.42		
165.0	1501.11	1501.11	1481.99	1449.22	1403.70	1341.80	1272.62	1192.51	1102.39		
180.0	1501.11	1489.51	1460.08	1414.59	1357.51	1287.94	1208.56	1120.26	1021.25		
195.0	1501.11	1485.82	1458.84	1413.87	1359.00	1287.95	1210.60	1120.66	1026.22		
210.0	1501.11	1485.85	1458.01	1413.12	1356.56	1287.43	1206.63	1119.55	1021.69		
225.0	1501.11	1486.68	1460.54	1417.26	1358.66	1292.85	1215.31	1126.06	1027.79		
240.0	1501.11	1485.85	1457.14	1415.87	1356.65	1290.25	1206.81	1115.29	1019.28		
255.0	1501.11	1486.53	1458.27	1415.43	1359.84	1290.57	1214.01	1125.60	1031.73		
270.0	1501.11	1486.50	1458.19	1415.28	1359.58	1292.01	1215.31	1125.83	1030.87		
285.0	1501.11	1488.32	1460.02	1416.19	1362.32	1292.92	1215.31	1125.83	1031.78		
300.0	1501.11	1489.25	1460.07	1419.03	1362.49	1295.00	1216.57	1129.02	1032.35		
315.0	1501.11	1488.33	1460.04	1415.33	1361.49	1290.31	1213.66	1122.41	1027.51		
330.0	1501.11	1488.33	1460.96	1417.16	1359.67	1290.31	1248.34	1119.67	1024.77		
345.0	1501.11	1490.18	1459.23	1417.36	1360.92	1289.00	1211.63	1121.51	1025.92		
360.0	1501.11	1500.22	1481.49	1446.70	1401.21	1343.24	1269.21	1184.47	1095.28		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	995.39	884.79	771.51	651.10	531.59	407.61	289.88	176.60	68.68		
15.0	997.44	888.61	776.19	652.97	533.35	413.73	296.80	179.88	74.65		
30.0	1000.14	891.51	780.18	659.88	541.37	418.37	302.56	185.84	79.90		
45.0	1007.05	902.47	789.77	672.57	551.76	429.15	311.94	199.25	92.86		
60.0	997.75	891.87	784.20	670.25	556.30	436.07	321.22	207.27	102.29		
75.0	1006.21	903.22	797.49	679.92	565.99	451.15	336.31	221.47	117.57		
90.0	1008.04	903.95	796.21	681.16	566.11	448.32	335.10	225.53	120.53		
105.0	1009.87	907.60	796.21	680.25	565.20	451.06	334.19	222.79	117.79		
120.0	1012.29	907.41	799.80	683.07	560.86	444.13	327.40	211.58	105.79		
135.0	1005.61	903.40	791.16	670.71	552.99	431.63	315.73	202.58	92.17		
150.0	1001.04	896.10	784.77	665.23	546.60	424.33	302.96	190.72	83.95		
165.0	1002.26	891.20	778.32	661.80	539.82	416.92	299.49	182.06	74.65		
180.0	913.33	799.16	682.32	560.13	437.93	320.20	206.93	99.00	11.60		
195.0	915.59	804.97	685.35	567.52	444.31	326.48	207.76	99.83	11.69		
210.0	916.65	805.32	690.40	570.10	448.00	330.39	213.67	105.04	14.36		
225.0	927.71	815.92	702.32	584.21	461.60	343.50	225.39	118.11	18.03		
240.0	918.79	808.43	698.96	581.42	461.19	346.34	235.08	129.20	27.81		
255.0	926.91	820.28	707.26	590.60	474.85	360.01	246.08	139.45	38.28		
270.0	929.52	820.86	707.64	590.76	472.06	357.93	248.36	140.61	44.74		
285.0	927.69	820.86	710.38	590.76	473.89	359.75	297.66	138.79	36.52		
300.0	932.04	820.78	708.60	644.76	466.02	350.20	237.11	125.85	23.71		
315.0	972.75	813.06	698.08	579.45	453.53	340.37	223.57	114.98	16.43		
330.0	917.09	805.76	689.87	569.42	446.23	329.42	211.71	103.12	12.78		
345.0	915.78	800.17	684.56	561.66	442.41	324.07	205.73	98.31	10.92		
360.0	995.39	884.79	771.51	651.10	531.59	407.61	289.88	176.60	68.68		

Shenzhen Wisdom Light Co.,Ltd. the half of model WL-2LSD8FT70WBDHV(50K)-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	1.78	1.78		
15.0	7.20	1.80	0.90	0.90	0.90	0.90	1.80	1.80	2.70		
30.0	8.08	1.80	0.90	0.90	0.90	0.90	0.90	1.80	2.69		
45.0	8.11	1.80	1.80	0.90	0.90	0.90	1.80	1.80	2.70		
60.0	8.97	1.79	1.79	0.90	0.90	0.90	1.79	1.79	2.69		
75.0	15.49	1.82	1.82	0.91	0.91	0.91	1.82	1.82	2.73		
90.0	24.65	1.83	1.83	0.91	0.91	0.91	1.83	2.74	2.74		
105.0	15.52	1.83	1.83	0.91	0.91	0.91	1.83	1.83	2.74		
120.0	9.12	1.82	1.82	0.91	0.91	0.91	1.82	1.82	2.74		
135.0	8.21	1.83	0.91	0.91	0.91	0.91	1.83	1.83	2.74		
150.0	8.21	1.83	0.91	0.91	0.91	0.91	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		
180.0	2.68	2.68	2.68	2.68	2.68	2.68	2.68	1.78	1.78		
195.0	2.70	2.70	2.70	2.70	2.70	2.70	2.70	1.80	1.80		
210.0	2.69	2.69	2.69	2.69	2.69	2.69	2.69	2.69	1.80		
225.0	3.61	2.70	2.70	2.70	2.70	2.70	2.70	2.70	1.80		
240.0	3.59	3.59	2.69	2.69	2.69	2.69	2.69	2.69	1.79		
255.0	3.65	3.65	3.65	3.65	2.73	2.73	2.73	2.73	2.73		
270.0	5.48	3.65	3.65	3.65	2.74	2.74	2.74	2.74	2.74		
285.0	4.57	3.65	3.65	2.74	2.74	2.74	2.74	2.74	2.74		
300.0	3.65	3.65	3.65	2.74	2.74	2.74	2.74	2.74	2.74		
315.0	3.65	2.74	2.74	2.74	2.74	2.74	2.74	2.74	1.83		
330.0	3.65	2.74	2.74	2.74	2.74	2.74	2.74	1.83	1.83		
345.0	2.73	2.73	2.73	2.73	2.73	2.73	2.73	1.82	1.82		
360.0	7.14	0.89	0.89	0.89	0.89	0.89	0.89	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		
15.0	2.70	2.70	3.60	4.50	5.40	6.30	7.20	8.09	8.09		
30.0	2.69	2.69	3.59	4.49	5.39	6.28	7.18	8.08	8.08		
45.0	2.70	2.70	3.61	4.51	5.41	6.31	7.21	8.11	8.11		
60.0	2.69	3.59	3.59	4.49	5.38	6.28	7.18	8.08	8.97		
75.0	2.73	3.65	3.65	4.56	5.47	6.38	7.29	8.20	9.11		
90.0	2.74	3.65	3.65	4.57	5.48	6.39	7.30	8.22	9.13		
105.0	2.74	3.65	3.65	4.57	5.48	6.39	7.30	8.22	9.13		
120.0	2.74	3.65	3.65	4.56	5.47	6.38	7.30	8.21	9.12		
135.0	2.74	3.65	3.65	4.56	5.48	6.39	7.30	8.21	8.21		
150.0	2.74	2.74	3.65	4.56	5.48	6.39	7.30	8.21	8.21		
165.0	2.73	2.73	3.64	4.55	5.46	6.37	7.28	8.19	9.10		
180.0	1.78	2.68	2.68	3.57	4.46	6.24	7.14	8.03	8.92		
195.0	1.80	2.70	2.70	3.60	4.50	6.30	6.30	8.09	8.99		
210.0	1.80	2.69	2.69	3.59	4.49	6.28	7.18	8.08	8.08		
225.0	1.80	2.70	2.70	3.61	4.51	6.31	7.21	8.11	8.11		
240.0	2.69	2.69	2.69	4.49	4.49	6.28	7.18	8.08	8.08		
255.0	2.73	2.73	2.73	3.65	5.47	6.38	7.29	8.20	9.11		
270.0	2.74	2.74	2.74	4.57	5.48	6.39	7.30	8.22	9.13		
285.0	1.83	2.74	2.74	4.57	5.48	6.39	7.30	8.22	9.13		
300.0	2.74	2.74	2.74	3.65	4.56	6.38	7.30	8.21	9.12		
315.0	1.83	2.74	2.74	3.65	5.48	6.39	7.30	8.21	9.13		
330.0	1.83	2.74	2.74	3.65	4.56	6.39	7.30	8.21	9.13		
345.0	1.82	2.73	2.73	3.64	4.55	6.37	7.28	7.28	8.19		
360.0	2.68	2.68	3.57	4.46	5.35	6.24	7.14	8.03	8.03		

Intensity data(cd)

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C/γ(°)	180.0
0.0	8.92
15.0	8.99
30.0	8.98
45.0	9.02
60.0	8.97
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