
革星

Client:

LumCAT: EVYW070410LAJMVxx

Luminaire: LED 灯具

Report No:

Ballast type:

Test No: LCZP23080304

Voltage(V): 120.030

LampCAT:

Current(A): 0.104

Lamp flux(lm): 1111.2

Power (W): 12.310

Number of Lamps: 1

PF: 0.988

Length(mm): -85

Width(mm): -85

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1111.17, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 90.27

Central intensity(cd): 4058.072, Maximum intensity(cd): 4058.072

Angle of maximum intensity: C=75.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.2

[C90/270]Total=20.8

Field angle(10%Imax): [C0/180]Total=59.6

[C90/270]Total=61.8

Maximum s/h(1/2): C0_180=0.33 C90_270=0.35

Maximum s/h(1/4): C0_180=0.35 C90_270=0.37

Up flux rate of lamp(%): 0.34%

Down flux rate of lamp(%): 99.66%

Up flux rate of LUM(%): 0.34%

Down flux rate of LUM(%): 99.66%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.703%

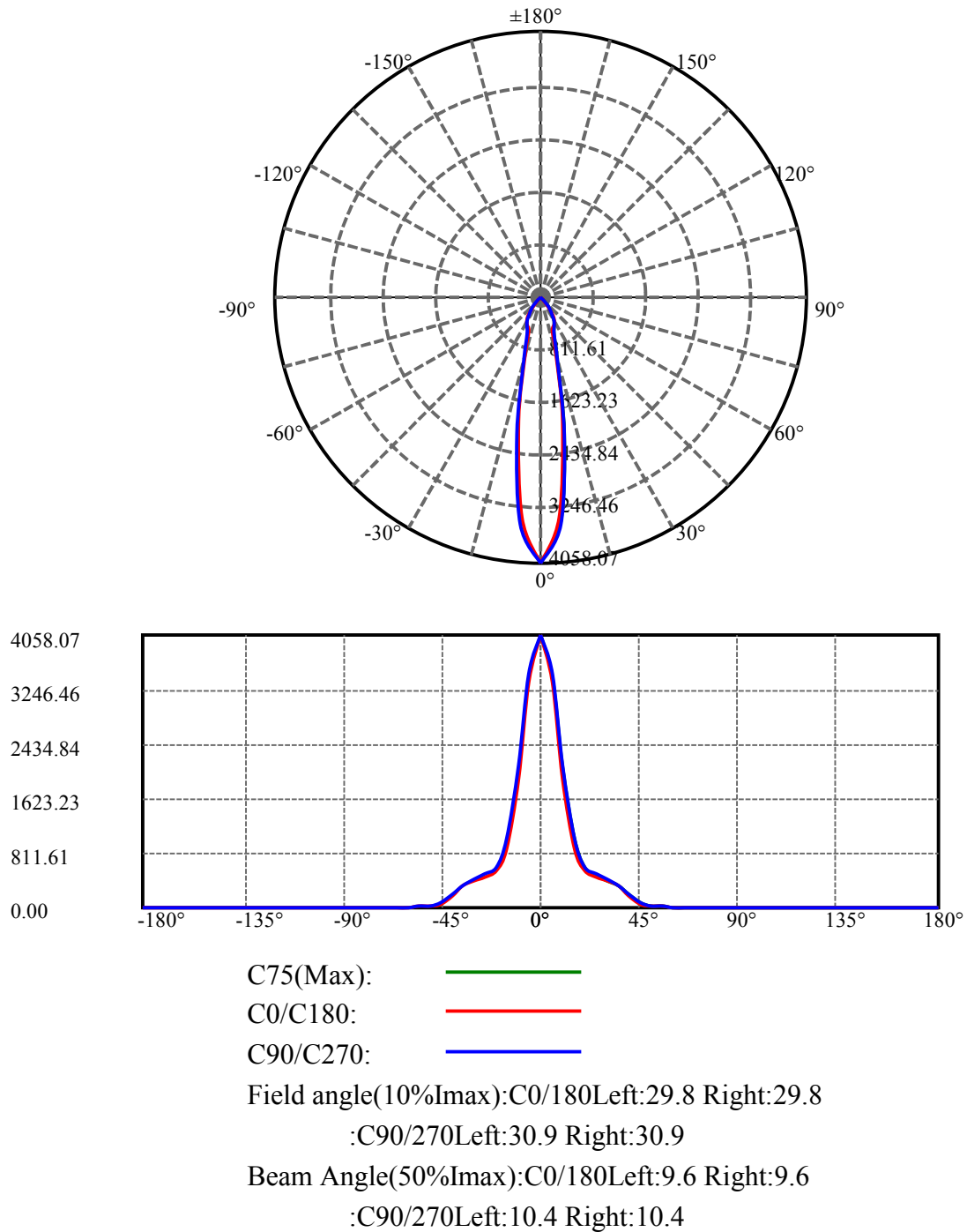
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4058.072	0.000	0	0.00%	0.00%
5.0	3397.983	89.135	89.135	8.02%	8.02%
10.0	2042.714	194.631	283.766	17.52%	25.54%
15.0	987.772	179.766	463.532	16.18%	41.72%
20.0	593.437	130.314	593.846	11.73%	53.44%
25.0	482.715	112.868	706.714	10.16%	63.60%
30.0	411.771	113.198	819.912	10.19%	73.79%
35.0	333.554	109.754	929.667	9.88%	83.67%
40.0	188.765	87.145	1016.812	7.84%	91.51%
45.0	65.671	47.111	1063.923	4.24%	95.75%
50.0	24.814	18.284	1082.206	1.65%	97.39%
55.0	15.373	8.738	1090.944	0.79%	98.18%
60.0	9.757	5.809	1096.753	0.52%	98.70%
65.0	6.404	3.929	1100.682	0.35%	99.06%
70.0	4.325	2.717	1103.399	0.24%	99.30%
75.0	2.959	1.904	1105.303	0.17%	99.47%
80.0	1.663	1.237	1106.54	0.11%	99.58%
85.0	0.697	0.641	1107.181	0.06%	99.64%
90.0	0.214	0.249	1107.43	0.02%	99.66%
95.0	0.000	0.059	1107.489	0.01%	99.67%
100.0	0.000	0.000	1107.489	0.00%	99.67%
105.0	0.000	0.000	1107.489	0.00%	99.67%
110.0	0.000	0.000	1107.489	0.00%	99.67%
115.0	0.000	0.000	1107.489	0.00%	99.67%
120.0	0.000	0.000	1107.489	0.00%	99.67%
125.0	0.004	0.001	1107.489	0.00%	99.67%
130.0	0.098	0.022	1107.512	0.00%	99.67%
135.0	0.173	0.055	1107.566	0.00%	99.68%
140.0	0.251	0.078	1107.645	0.01%	99.68%
145.0	0.405	0.109	1107.754	0.01%	99.69%
150.0	0.896	0.192	1107.945	0.02%	99.71%
155.0	2.292	0.403	1108.349	0.04%	99.75%
160.0	4.044	0.665	1109.013	0.06%	99.81%
165.0	5.917	0.821	1109.834	0.07%	99.88%
170.0	6.694	0.748	1110.582	0.07%	99.95%
175.0	6.552	0.474	1111.056	0.04%	99.99%
180.0	2.932	0.113	1111.17	0.01%	100.00%

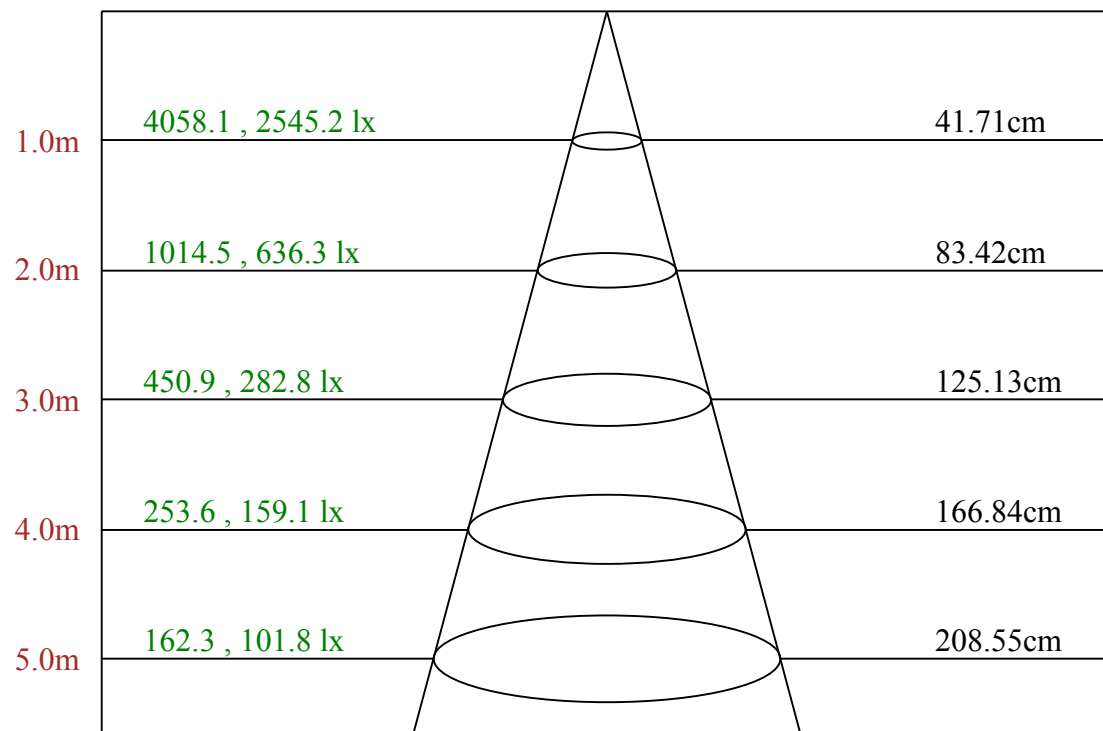
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	819.91	73.79%	73.79%
0-40	1016.81	91.51%	91.51%
0-60	1096.75	98.70%	98.70%
0-90	1107.43	99.66%	99.66%
0-120	1107.49	99.67%	99.67%
0-180	1111.17	100.00%	100.00%
60-90	10.68	0.96%	0.96%
90-120	0.06	0.01%	0.01%
90-130	0.08	0.01%	0.01%
90-150	0.52	0.05%	0.05%
90-180	3.63	0.33%	0.33%
0-33.14	888.94	80.00%	80.00%

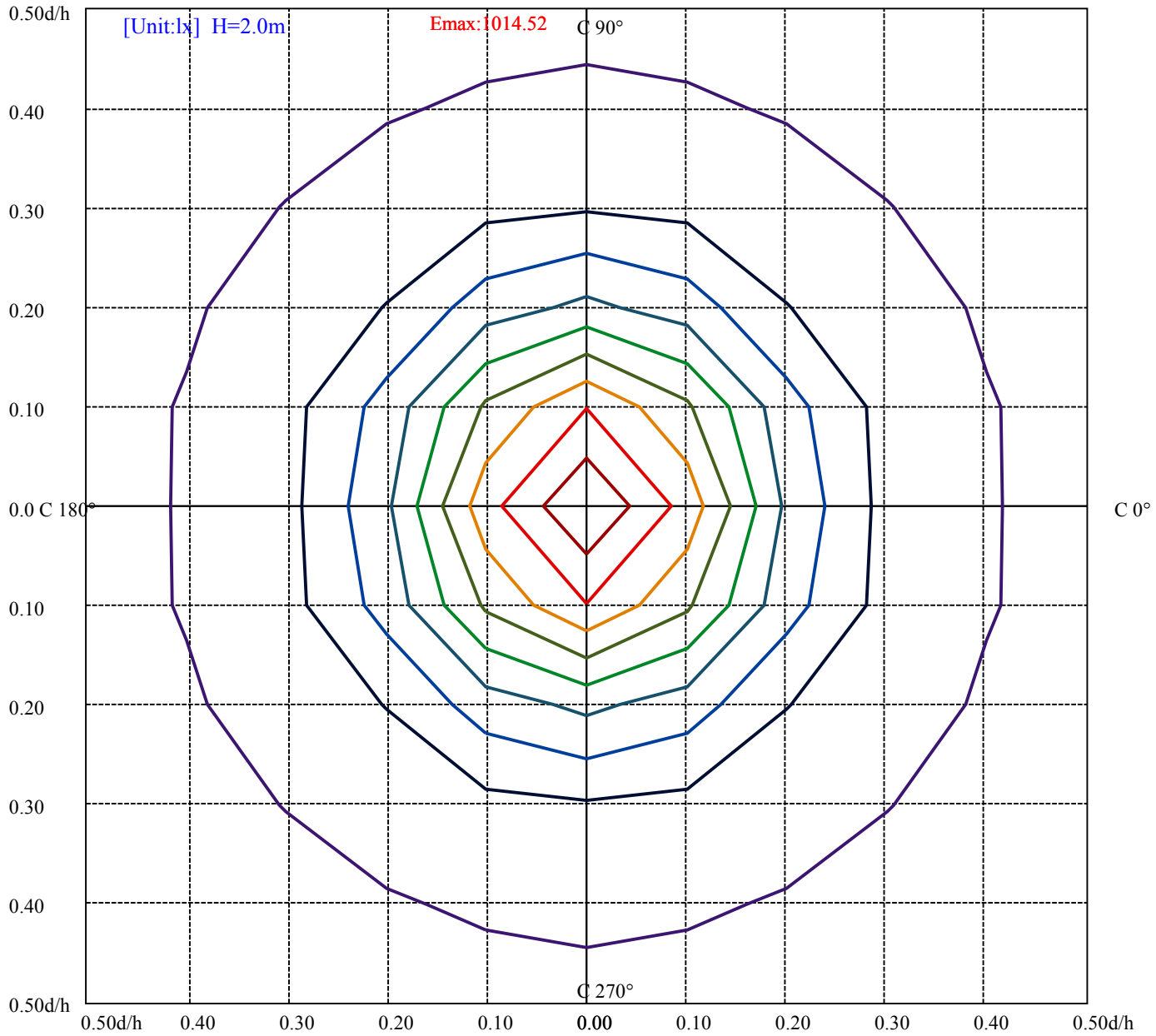
ZONAL LUMEN SUMMARY

0-10	283.77
10-20	310.08
20-30	226.07
30-40	196.90
40-50	65.39
50-60	14.55
60-70	6.65
70-80	3.14
80-90	0.89
90-100	0.06
100-110	0.00
110-120	0.00
120-130	0.02
130-140	0.13
140-150	0.30
150-160	1.07
160-170	1.57
170-180	0.47

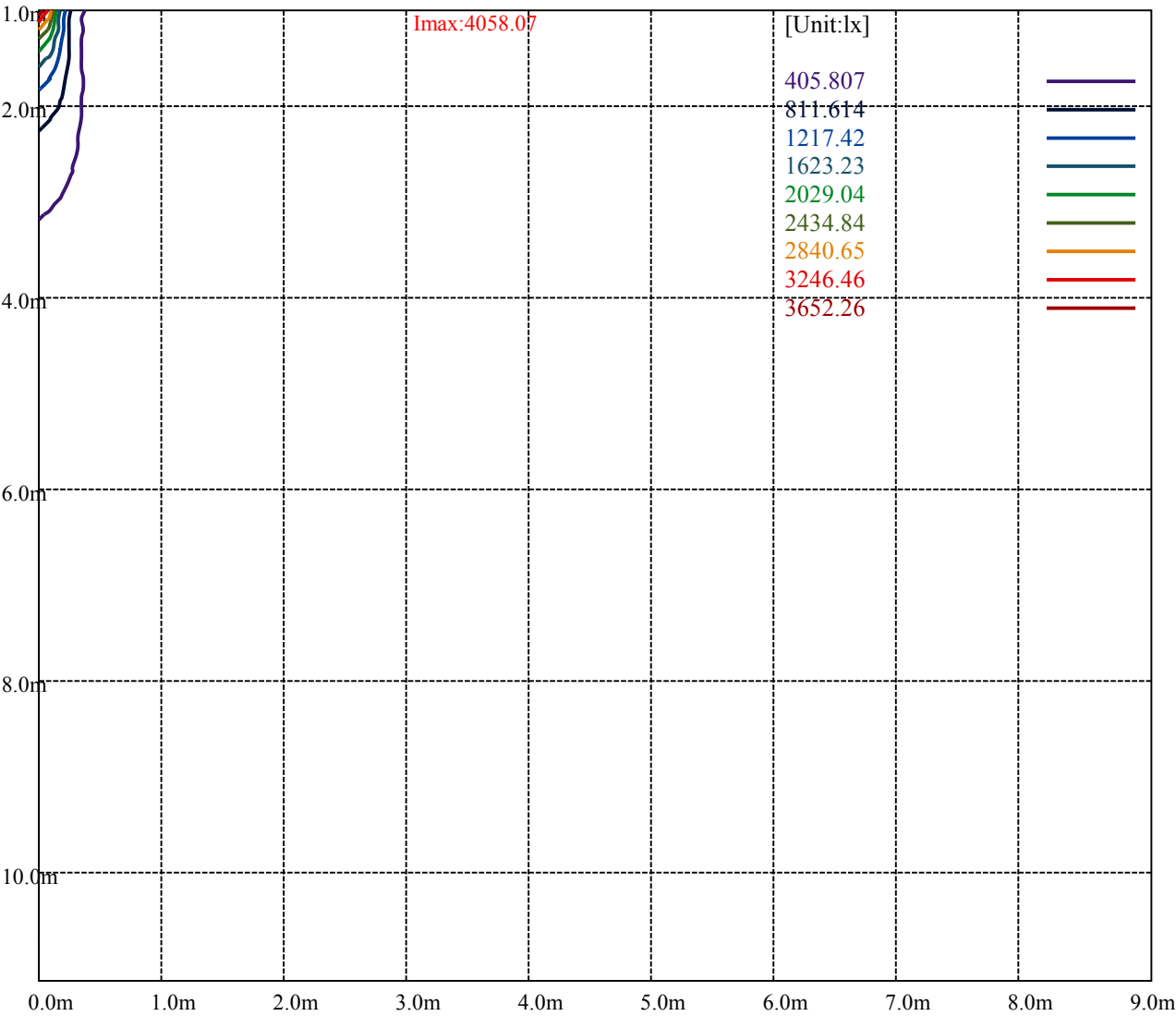




Max , Ave Beam angle of C75 plane 23.56



(10%Emax)	101.4512	
(20%Emax)	202.9025	
(30%Emax)	304.355	
(40%Emax)	405.805	
(50%Emax)	507.2575	
(60%Emax)	608.7075	
(70%Emax)	710.16	
(80%Emax)	811.61	
(90%Emax)	913.0625	



Luminance Table

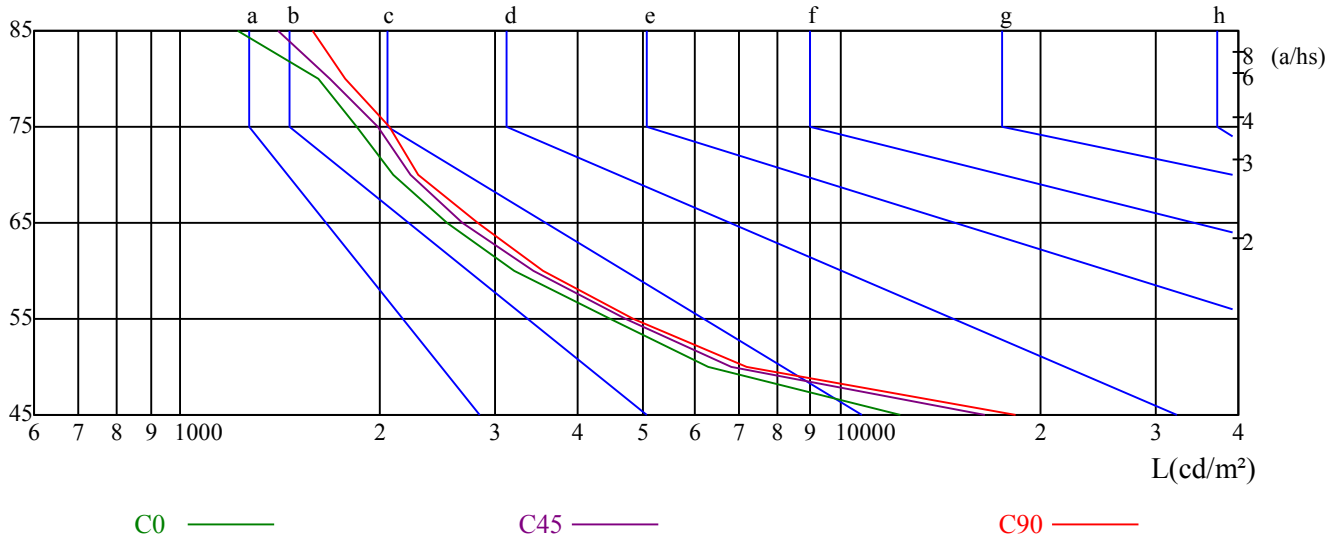
γ	45	50	55	60	65	70	75	80	85
C0	12264	6316	4476	3211	2527	2104	1844	1614	1217
C45	16541	6819	4724	3426	2667	2231	1986	1685	1407
C90	18421	7177	4837	3531	2811	2284	2075	1780	1587

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2527	2811	2667	1844	2075	1986	1217	1587	1407

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

 $\gamma(^{\circ})$ 

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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94
2	1.04	1.01	0.98	1.03	0.99	0.96	0.99	0.97	0.94	0.96	0.94	0.92	0.94	0.92	0.90	0.89
3	0.98	0.94	0.90	0.97	0.93	0.89	0.94	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.84
4	0.93	0.88	0.84	0.92	0.87	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.79
5	0.88	0.83	0.79	0.87	0.82	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.75
6	0.83	0.78	0.74	0.83	0.78	0.74	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.71
7	0.79	0.74	0.70	0.79	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.68
8	0.76	0.70	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.65
9	0.73	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.62
10	0.70	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59

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	4058.07	4086.44	2696.50	1145.82	621.48	501.99	440.10	367.90	314.69		
15.0	4058.07	4133.79	2816.20	1207.07	644.00	512.59	444.71	368.73	320.17		
30.0	4058.07	4211.47	2916.38	1297.74	659.45	520.15	443.98	378.92	324.96		
45.0	4058.07	4211.47	2916.38	1297.74	659.45	520.15	443.98	378.92	324.96		
60.0	4058.07	4375.43	3142.05	1382.14	694.23	534.64	460.71	391.47	334.13		
75.0	4058.07	4460.05	3148.38	1407.38	710.07	541.44	466.70	396.87	333.71		
90.0	4058.07	4560.37	3258.46	1439.48	714.66	552.16	472.75	403.41	340.53		
105.0	4058.07	4501.65	3305.36	1451.47	699.67	543.27	467.36	395.11	340.69		
120.0	4058.07	4445.81	3345.25	1453.79	695.57	538.47	463.11	393.28	333.98		
135.0	4058.07	4432.55	3293.59	1427.59	708.77	548.93	465.82	393.57	335.30		
150.0	4058.07	4393.20	3152.22	1418.13	705.87	549.72	466.62	393.57	338.32		
165.0	4058.07	4334.04	3027.49	1343.64	702.13	541.08	461.45	391.60	335.68		
180.0	4058.07	2638.05	1114.36	626.29	501.13	425.15	365.49	292.94	47.19		
195.0	4058.07	2591.67	1072.52	628.51	499.80	431.92	359.77	290.24	44.82		
210.0	4058.07	2527.59	1052.74	616.07	483.65	425.03	371.60	284.14	45.23		
225.0	4058.07	2527.59	1052.74	616.07	483.65	425.03	371.60	284.14	45.23		
240.0	4058.07	2441.52	995.81	613.17	506.97	436.10	364.42	260.83	44.81		
255.0	4058.07	2397.29	964.57	619.38	505.53	436.71	362.24	269.90	44.57		
270.0	4058.07	2372.98	970.61	617.99	510.33	444.59	367.86	270.72	43.40		
285.0	4058.07	2329.48	945.88	616.44	501.57	437.73	360.81	271.82	44.08		
300.0	4058.07	2329.15	929.03	614.75	503.60	441.13	362.95	268.06	45.77		
315.0	4058.07	2359.22	942.77	620.17	512.67	444.81	366.72	270.90	49.78		
330.0	4058.07	2408.91	966.85	618.57	510.73	420.97	370.29	291.11	51.32		
345.0	4058.07	2481.89	999.00	627.12	507.51	411.42	361.47	297.14	47.05		
360.0	4058.07	4086.44	2696.50	1145.82	621.48	501.99	440.10	367.90	314.69		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	71.86	28.54	18.31	11.17	7.22	4.90	3.35	2.06	1.03		
15.0	77.54	29.15	18.80	11.49	7.40	5.13	3.57	2.09	1.22		
30.0	89.22	30.15	19.04	11.81	7.67	5.29	3.70	2.29	1.15		
45.0	89.22	30.15	19.04	11.81	7.67	5.29	3.70	2.29	1.15		
60.0	126.67	31.92	19.84	12.44	7.93	5.50	3.97	2.43	1.35		
75.0	129.34	33.36	20.69	12.58	8.20	5.65	4.10	2.46	1.37		
90.0	121.33	34.63	21.14	13.02	8.49	5.72	4.16	2.49	1.48		
105.0	128.23	34.30	21.22	13.17	8.41	5.67	4.12	2.47	1.28		
120.0	119.68	33.33	21.07	13.17	8.17	5.72	4.09	2.45	1.36		
135.0	112.25	33.70	20.92	12.97	8.13	5.66	4.02	2.47	1.37		
150.0	94.60	32.87	20.55	12.69	8.22	5.57	4.11	2.47	1.28		
165.0	82.79	31.31	20.00	12.31	7.96	5.52	3.80	2.44	1.27		
180.0	26.56	17.54	10.83	7.05	4.90	3.27	2.06	1.12	0.17		
195.0	25.85	17.23	10.62	6.88	4.79	3.13	2.00	0.96	0.17		
210.0	25.92	17.19	10.67	6.79	4.76	3.17	2.03	0.97	0.18		
225.0	25.92	17.19	10.67	6.79	4.76	3.17	2.03	0.97	0.18		
240.0	26.24	17.40	10.37	6.85	4.78	3.16	1.98	0.99	0.09		
255.0	26.07	17.32	10.30	6.84	4.74	3.10	1.91	0.82	0.09		
270.0	26.50	17.73	10.34	7.02	4.99	3.14	1.94	1.02	0.09		
285.0	27.07	17.29	10.61	6.95	4.85	3.11	2.47	0.91	0.09		
300.0	27.06	17.62	10.71	8.44	4.90	3.27	2.00	0.91	0.09		
315.0	38.09	18.45	10.87	7.31	5.02	3.20	1.92	0.91	0.09		
330.0	29.40	18.72	11.23	7.40	4.93	3.20	2.10	1.00	0.09		
345.0	28.68	18.46	11.13	7.24	4.80	3.26	1.90	0.90	0.09		
360.0	71.86	28.54	18.31	11.17	7.22	4.90	3.35	2.06	1.03		

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
15.0	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
30.0	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
45.0	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
60.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
75.0	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
90.0	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
105.0	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
120.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
135.0	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
150.0	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
165.0	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
360.0	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.17	0.26	0.17	0.52	1.55	3.70	6.70	8.08	7.22
15.0	0.17	0.17	0.26	0.44	1.57	3.66	6.79	8.01	7.31
30.0	0.09	0.18	0.18	0.44	1.59	3.70	6.96	8.20	7.32
45.0	0.09	0.18	0.18	0.44	1.59	3.70	6.96	8.20	7.32
60.0	0.18	0.18	0.18	0.45	1.44	3.88	7.03	8.29	7.48
75.0	0.18	0.18	0.09	0.36	1.55	3.74	7.20	8.39	7.57
90.0	0.18	0.18	0.09	0.46	1.48	3.88	7.39	8.59	7.85
105.0	0.18	0.18	0.18	0.55	1.55	3.93	7.32	8.51	7.68
120.0	0.18	0.18	0.18	0.45	1.54	3.90	7.36	8.54	7.81
135.0	0.18	0.27	0.18	0.55	1.55	3.93	7.31	8.59	7.76
150.0	0.18	0.18	0.27	0.46	1.55	4.02	7.40	8.58	7.85
165.0	0.18	0.18	0.27	0.45	1.54	3.89	7.33	8.51	7.78
180.0	0.17	0.26	0.52	1.29	2.75	3.95	4.64	4.90	5.42
195.0	0.09	0.26	0.52	1.31	2.87	4.09	4.35	4.96	5.40
210.0	0.18	0.26	0.62	0.88	2.91	4.14	4.58	5.03	5.47
225.0	0.18	0.26	0.62	0.88	2.91	4.14	4.58	5.03	5.47
240.0	0.18	0.36	0.63	1.44	2.98	4.24	4.78	4.96	5.59
255.0	0.18	0.36	0.64	1.46	3.10	4.28	4.74	5.10	5.56
270.0	0.18	0.28	0.65	1.48	3.14	4.43	4.80	5.08	5.63
285.0	0.18	0.37	0.64	1.46	3.11	4.39	4.66	5.03	5.58
300.0	0.27	0.36	0.64	1.45	3.18	4.36	4.72	5.09	5.45
315.0	0.18	0.27	0.73	1.46	3.20	4.38	4.75	5.02	5.57
330.0	0.18	0.27	0.73	1.46	3.20	4.38	4.84	5.02	5.57
345.0	0.18	0.36	0.54	1.36	3.17	4.34	4.80	4.98	5.61
360.0	0.17	0.26	0.17	0.52	1.55	3.70	6.70	8.08	7.22

Intensity data(cd)

C/ γ (°)	180.0
0.0	5.59
15.0	5.74
30.0	5.64
45.0	5.64
60.0	5.86
75.0	5.92
90.0	6.00
105.0	5.94
120.0	5.90
135.0	6.03
150.0	6.03
165.0	6.06
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	5.59