



NATA LIGHTING CO.,LTD.
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NT

Client: NT

LumCAT: 2-3215-A

Luminaire: 92.70.121.00

Report No: 20260327-B006

Ballast type: AC

Test No: 20260327-C006

Voltage(V): 35.990

LampCAT: CITIZEN CLU038

Current(A): 0.723

Lamp flux(lm): 3553.2

Power (W): 26.020

Number of Lamps: 1

PF: 0.000

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 43

Photometric Results

Lumens(lm): 3182.05, Efficiency(%): 89.56% , Luminous Efficacy(lm/W): 122.29

Central intensity(cd): 11663.160, Maximum intensity(cd): 11663.160

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.6

[C90/270]Total=24.6

Field angle(10%Imax): [C0/180]Total=57.0

[C90/270]Total=57.0

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.43 C90_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.826%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2026/3/27
Humidity(%): 60.0%

Operator: 杨泽全
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11663.156	0.000	0	0.00%	0.00%
1.0	11477.299	11.072	11.072	0.31%	0.35%
2.0	11320.847	32.722	43.794	0.92%	1.38%
3.0	11185.917	53.829	97.623	1.51%	3.07%
4.0	10850.316	73.762	171.385	2.08%	5.39%
5.0	10381.613	91.339	262.724	2.57%	8.26%
6.0	9830.011	106.217	368.942	2.99%	11.59%
7.0	9258.652	118.483	487.425	3.33%	15.32%
8.0	8682.089	128.398	615.823	3.61%	19.35%
9.0	7989.652	135.115	750.938	3.80%	23.60%
10.0	7313.808	138.491	889.429	3.90%	27.95%
11.0	6676.073	139.788	1029.217	3.93%	32.34%
12.0	6015.839	138.741	1167.958	3.90%	36.70%
13.0	5364.605	135.057	1303.015	3.80%	40.95%
14.0	4733.831	129.259	1432.274	3.64%	45.01%
15.0	4271.527	123.630	1555.903	3.48%	48.90%
16.0	3768.933	117.815	1673.719	3.32%	52.60%
17.0	3298.050	110.052	1783.77	3.10%	56.06%
18.0	2912.878	102.405	1886.175	2.88%	59.28%
19.0	2619.323	96.249	1982.424	2.71%	62.30%
20.0	2445.855	92.707	2075.131	2.61%	65.21%
21.0	1983.881	85.060	2160.191	2.39%	67.89%
22.0	1758.038	75.195	2235.386	2.12%	70.25%
23.0	1614.389	70.763	2306.149	1.99%	72.47%
24.0	1484.452	67.752	2373.901	1.91%	74.60%
25.0	1380.811	65.150	2439.051	1.83%	76.65%
26.0	1310.077	63.519	2502.569	1.79%	78.65%
27.0	1238.759	62.358	2564.927	1.75%	80.61%
28.0	1201.985	61.794	2626.722	1.74%	82.55%
29.0	1132.917	61.088	2687.809	1.72%	84.47%
30.0	1103.224	60.375	2748.185	1.70%	86.37%
31.0	1051.130	59.953	2808.137	1.69%	88.25%
32.0	969.638	57.893	2866.03	1.63%	90.07%
33.0	878.393	54.444	2920.473	1.53%	91.78%
34.0	773.944	50.005	2970.478	1.41%	93.35%
35.0	652.704	44.306	3014.784	1.25%	94.74%
36.0	560.517	38.629	3053.414	1.09%	95.96%
37.0	428.674	32.262	3085.675	0.91%	96.97%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	318.741	24.948	3110.623	0.70%	97.76%
39.0	237.213	18.976	3129.599	0.53%	98.35%
40.0	186.251	14.769	3144.368	0.42%	98.82%
41.0	103.795	10.328	3154.697	0.29%	99.14%
42.0	49.458	5.568	3160.265	0.16%	99.32%
43.0	32.934	3.052	3163.317	0.09%	99.41%
44.0	25.059	2.189	3165.506	0.06%	99.48%
45.0	18.513	1.675	3167.18	0.05%	99.53%
46.0	13.753	1.262	3168.442	0.04%	99.57%
47.0	10.969	0.983	3169.425	0.03%	99.60%
48.0	9.436	0.825	3170.25	0.02%	99.63%
49.0	8.663	0.743	3170.993	0.02%	99.65%
50.0	7.910	0.691	3171.684	0.02%	99.67%
51.0	7.228	0.640	3172.325	0.02%	99.69%
52.0	6.630	0.595	3172.919	0.02%	99.71%
53.0	6.089	0.553	3173.473	0.02%	99.73%
54.0	5.597	0.515	3173.988	0.01%	99.75%
55.0	5.210	0.482	3174.47	0.01%	99.76%
56.0	4.852	0.455	3174.925	0.01%	99.78%
57.0	4.584	0.431	3175.356	0.01%	99.79%
58.0	4.282	0.410	3175.766	0.01%	99.80%
59.0	4.057	0.390	3176.156	0.01%	99.81%
60.0	3.839	0.373	3176.529	0.01%	99.83%
61.0	3.663	0.358	3176.887	0.01%	99.84%
62.0	3.473	0.344	3177.231	0.01%	99.85%
63.0	3.326	0.331	3177.562	0.01%	99.86%
64.0	3.143	0.317	3177.879	0.01%	99.87%
65.0	2.960	0.302	3178.181	0.01%	99.88%
66.0	2.820	0.288	3178.47	0.01%	99.89%
67.0	2.644	0.275	3178.744	0.01%	99.90%
68.0	2.440	0.258	3179.002	0.01%	99.90%
69.0	2.285	0.241	3179.243	0.01%	99.91%
70.0	2.180	0.229	3179.472	0.01%	99.92%
71.0	2.053	0.219	3179.691	0.01%	99.93%
72.0	1.913	0.206	3179.897	0.01%	99.93%
73.0	1.828	0.196	3180.093	0.01%	99.94%
74.0	1.709	0.186	3180.279	0.01%	99.94%
75.0	1.645	0.177	3180.456	0.00%	99.95%

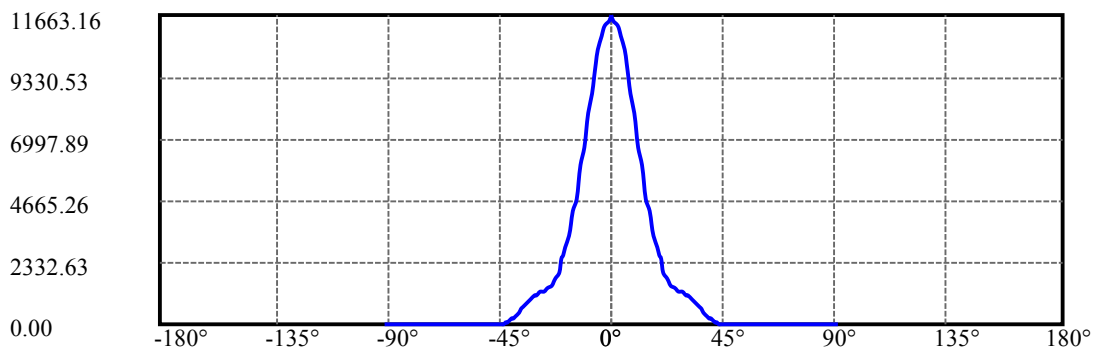
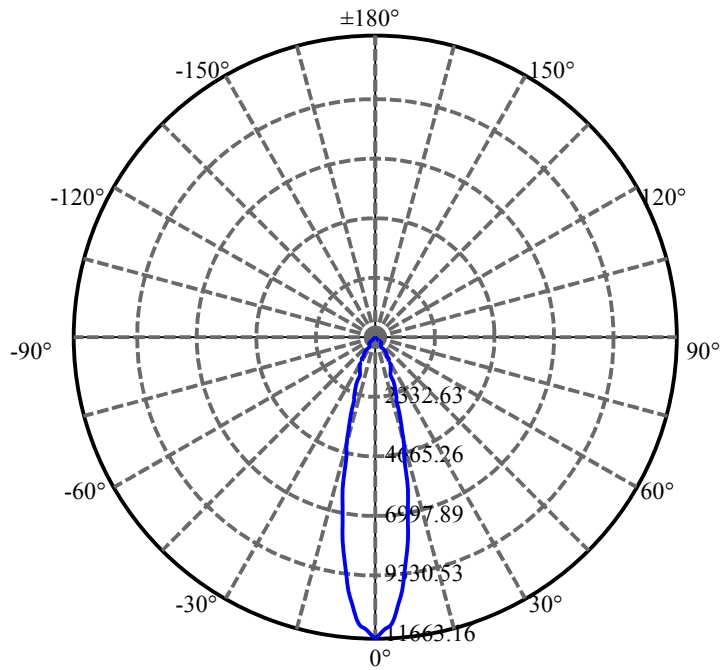
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.526	0.168	3180.624	0.00%	99.96%
77.0	1.441	0.158	3180.782	0.00%	99.96%
78.0	1.378	0.151	3180.933	0.00%	99.96%
79.0	1.294	0.144	3181.077	0.00%	99.97%
80.0	1.216	0.135	3181.212	0.00%	99.97%
81.0	1.118	0.126	3181.339	0.00%	99.98%
82.0	1.027	0.116	3181.455	0.00%	99.98%
83.0	0.921	0.106	3181.561	0.00%	99.98%
84.0	0.837	0.096	3181.656	0.00%	99.99%
85.0	0.752	0.087	3181.743	0.00%	99.99%
86.0	0.668	0.078	3181.821	0.00%	99.99%
87.0	0.591	0.069	3181.89	0.00%	99.99%
88.0	0.499	0.060	3181.949	0.00%	100.00%
89.0	0.478	0.054	3182.003	0.00%	100.00%
90.0	0.457	0.051	3182.054	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2748.18	77.34%	86.37%
0-40	3144.37	88.49%	98.82%
0-60	3176.53	89.40%	99.83%
0-90	3182.00	89.55%	100.00%
0-120	3182.00	89.55%	100.00%
0-180	3182.05	89.56%	100.00%
60-90	5.47	0.15%	0.17%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.69	2545.64	71.64%	80.00%

ZONAL LUMEN SUMMARY

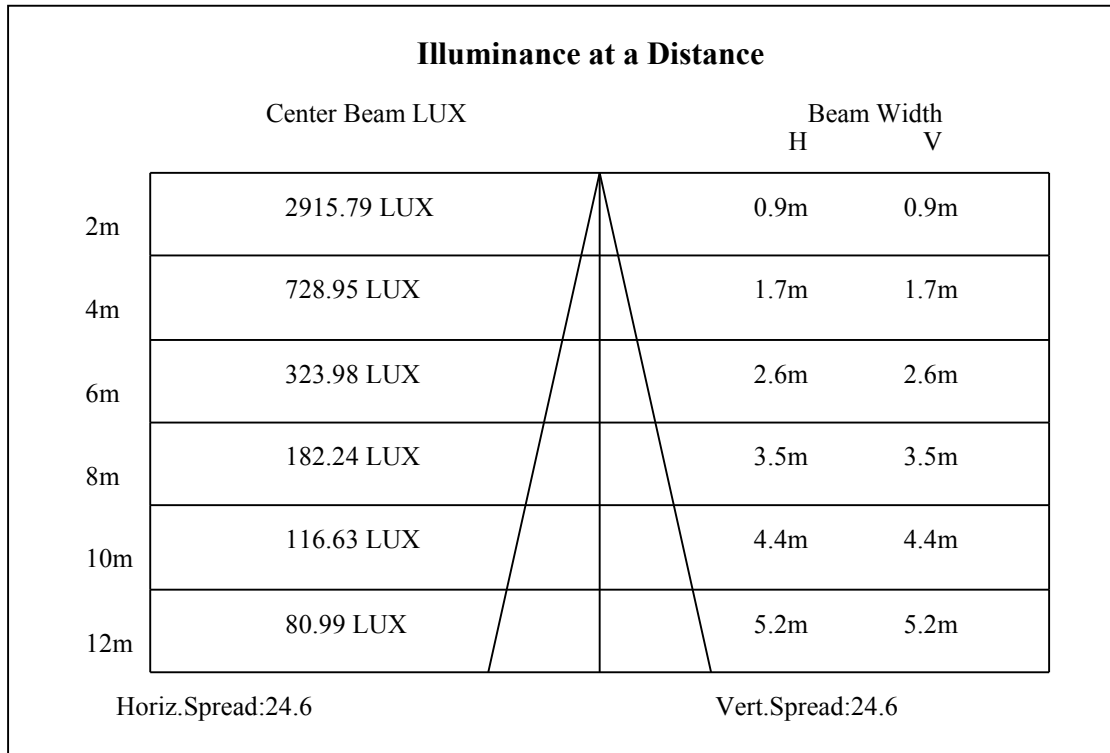
0-10	889.43
10-20	1185.70
20-30	673.05
30-40	396.18
40-50	27.32
50-60	4.84
60-70	2.94
70-80	1.74
80-90	0.79
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

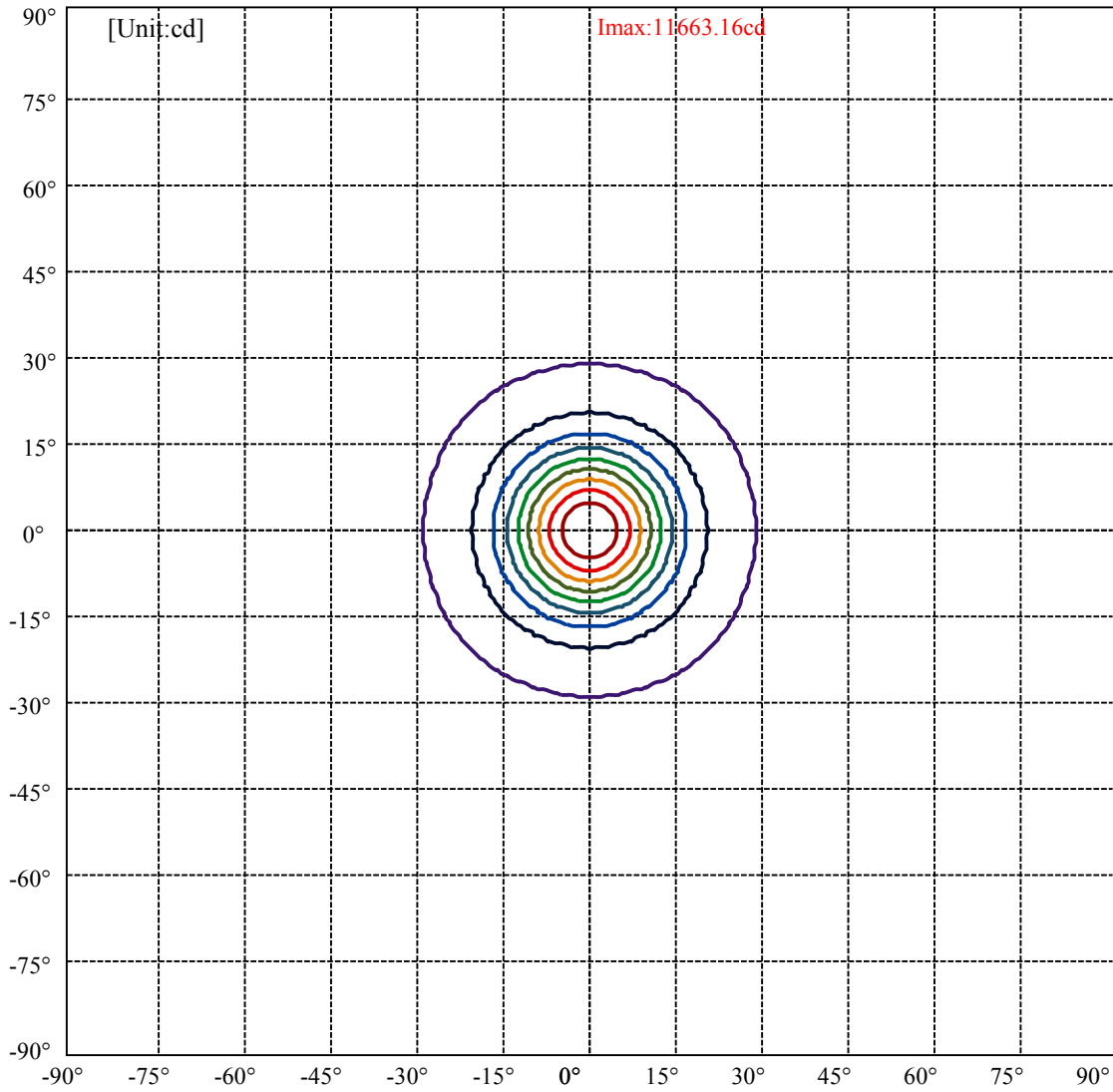


C90/C270: —————

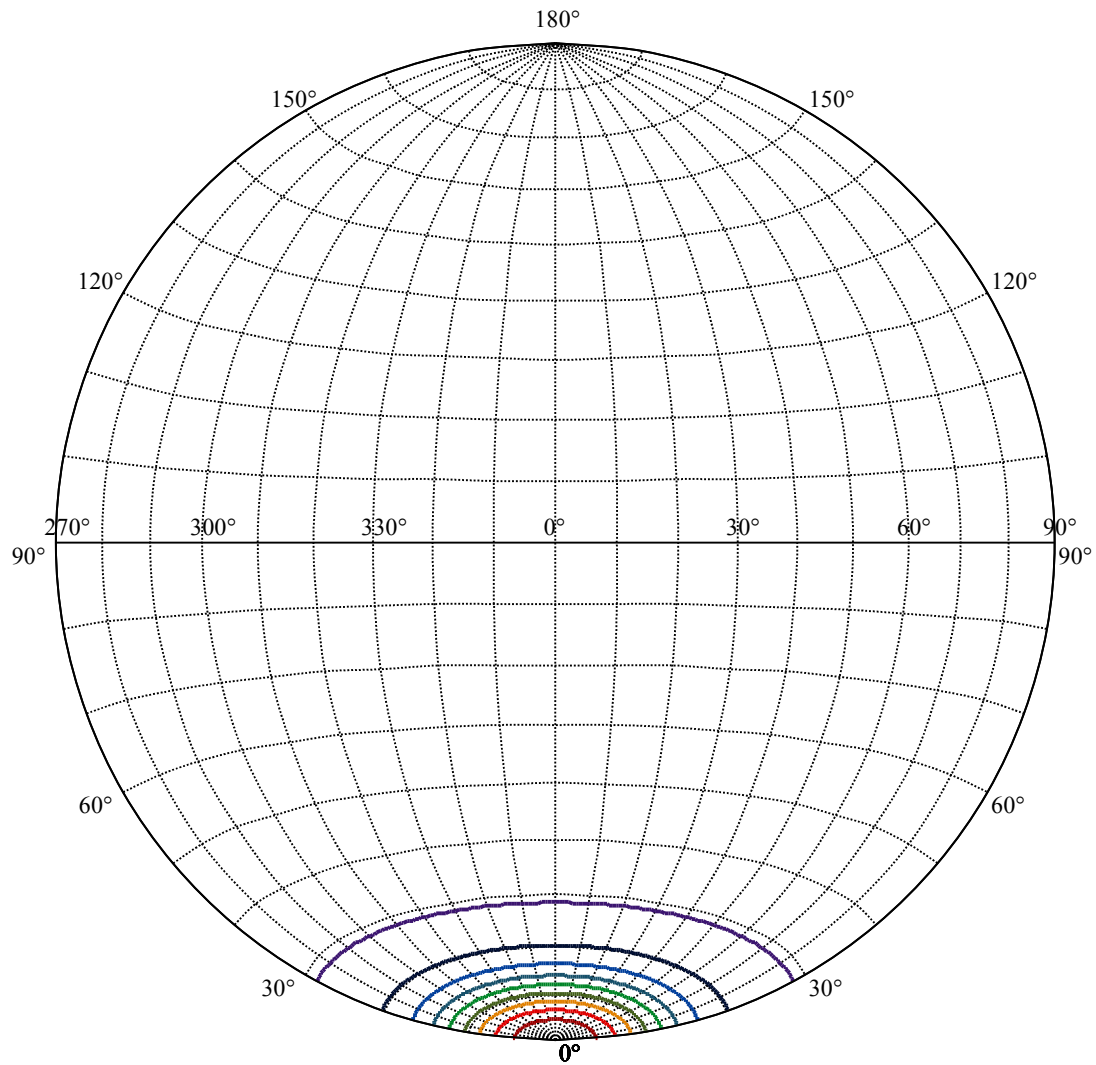
Field angle(10%Imax):C90/270Left:28.5 Right:28.5

Beam Angle(50%Imax):C90/270Left:12.3 Right:12.3





(10%Imax) 1166.32	—
(20%Imax) 2332.63	—
(30%Imax) 3498.95	—
(40%Imax) 4665.26	—
(50%Imax) 5831.58	—
(60%Imax) 6997.89	—
(70%Imax) 8164.21	—
(80%Imax) 9330.53	—
(90%Imax) 10496.8	—



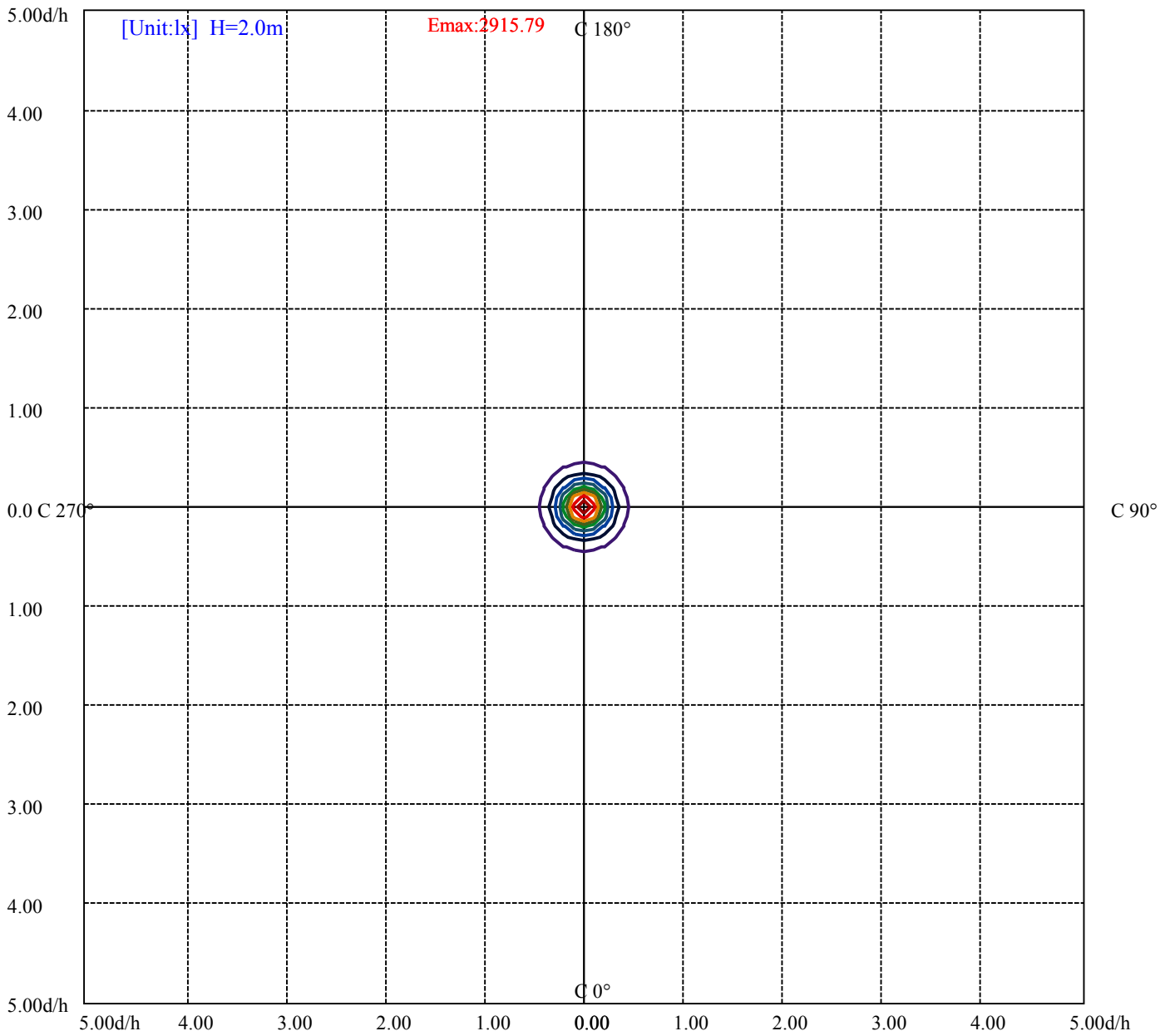
House

[Unit:cd]

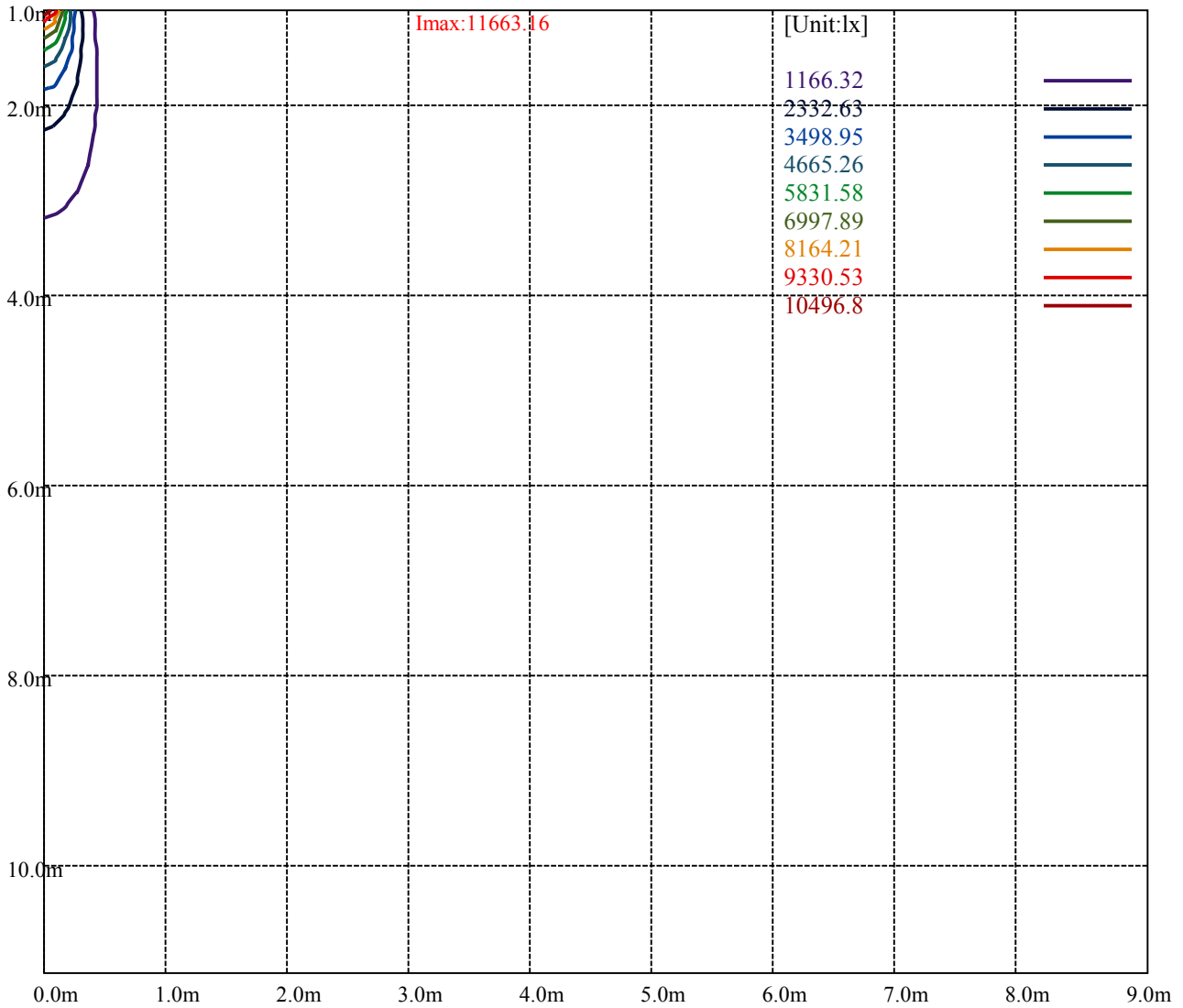
Road

I_{max}:11663.16

(10%I _{max})	1166.32	—
(20%I _{max})	2332.63	—
(30%I _{max})	3498.95	—
(40%I _{max})	4665.26	—
(50%I _{max})	5831.58	—
(60%I _{max})	6997.89	—
(70%I _{max})	8164.21	—
(80%I _{max})	9330.53	—
(90%I _{max})	10496.8	—



(10%Emax) 291.5775	—
(20%Emax) 583.1575	—
(30%Emax) 874.735	—
(40%Emax) 1166.313	—
(50%Emax) 1457.89	—
(60%Emax) 1749.47	—
(70%Emax) 2041.047	—
(80%Emax) 2332.625	—
(90%Emax) 2624.2	—



Luminance Table

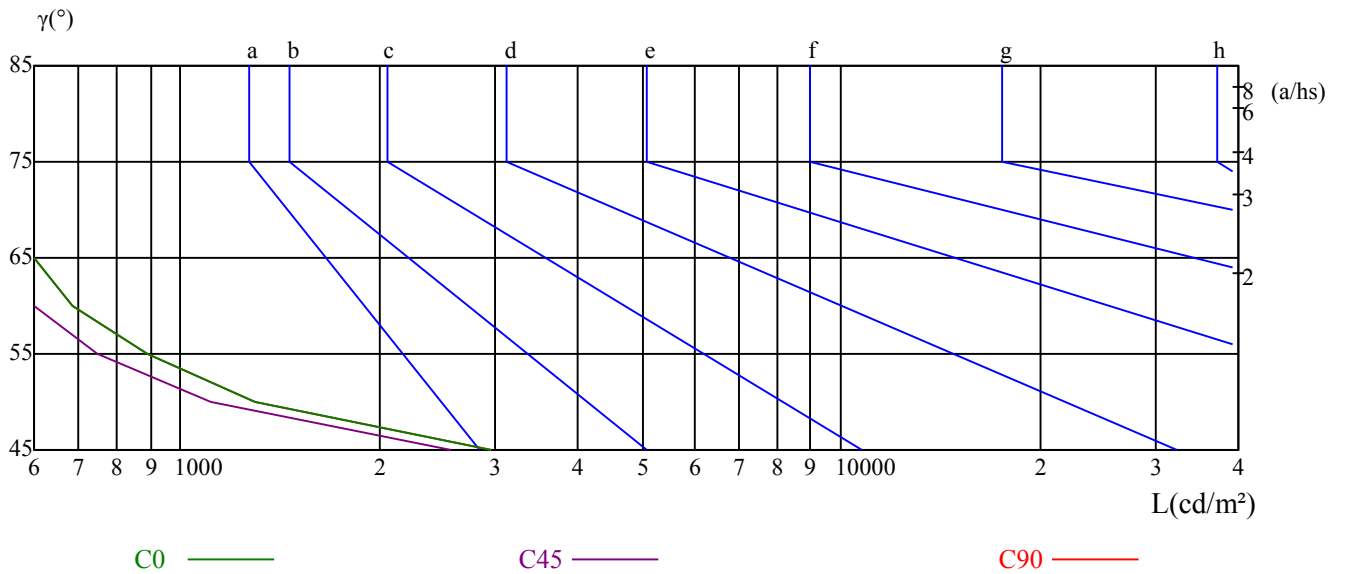
γ	45	50	55	60	65	70	75	80	85
C0	2958	1300	888	685	559	440	360	293	203
C45	2570	1113	748	568	455	351	281	222	149
C90	2958	1300	888	685	559	440	360	293	203

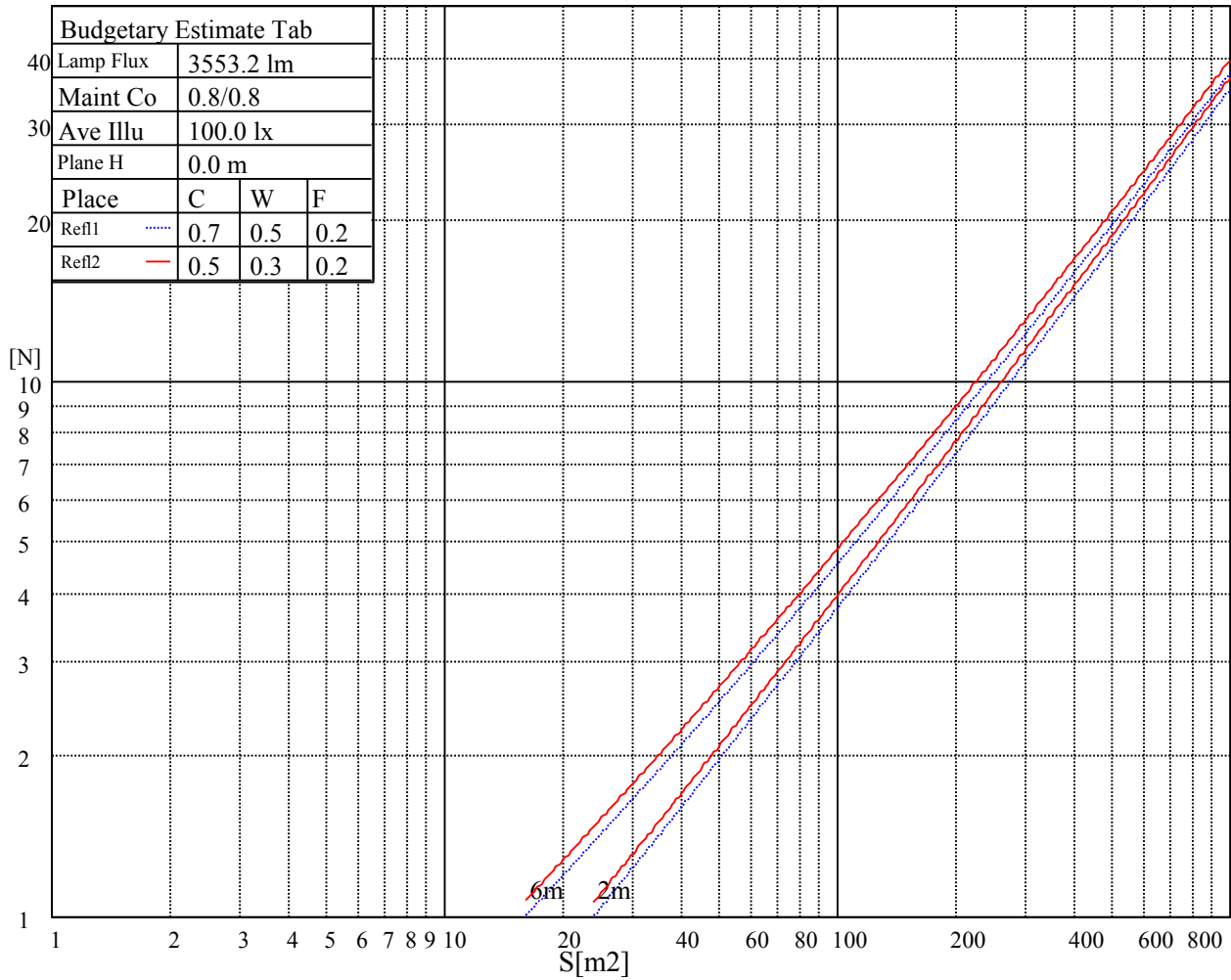
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1245	1245	1245	1130	1130	1130	1535	1535	1535

Glare Table

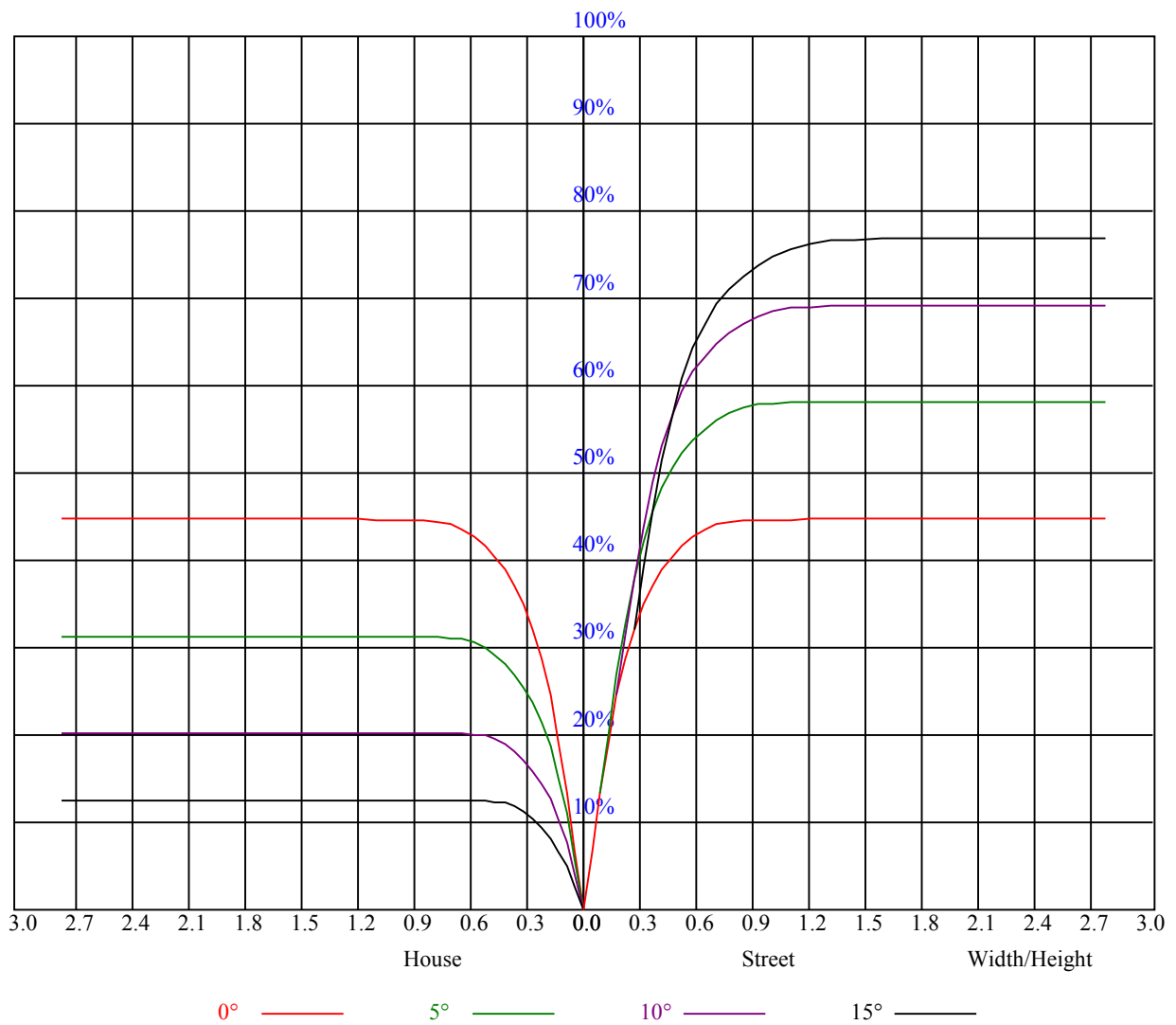
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

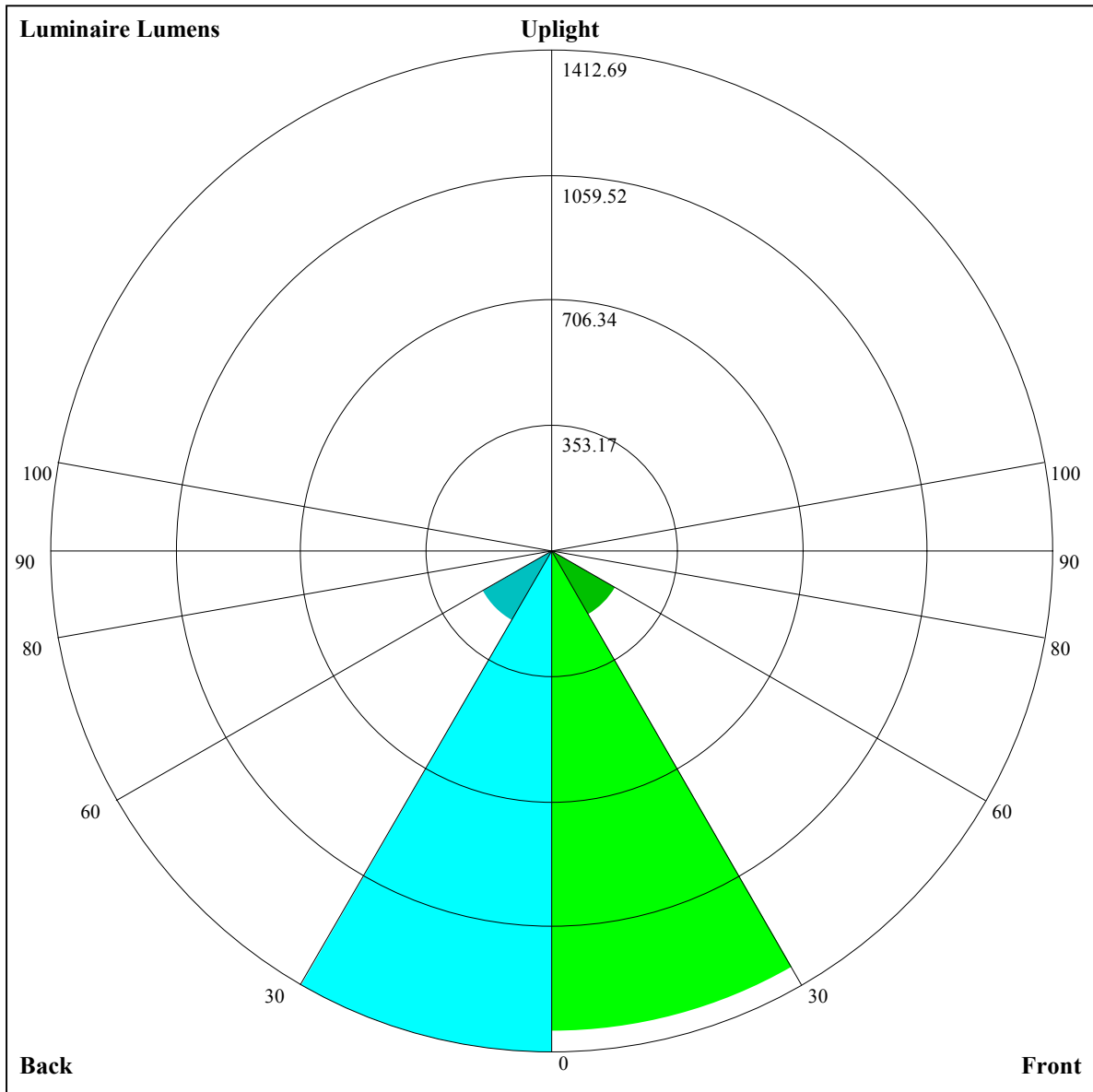
Luminance Limiting Curve





RHOCC	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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.86	0.85	0.86	0.84	0.83	0.82
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.68	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61
10	0.68	0.63	0.61	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59





Luminaire Lumens:

FL=1354.16,FM=206.55,FH=2.34,FVH=0.38

BL=1412.69,BM=225.37,BH=2.28,BVH=0.43

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	11678.63	11198.19	11126.76	10975.44	10529.94	9869.01	9509.57	8881.82	8213.01
45.0	11644.88	11661.75	11521.13	11296.13	10975.50	10733.63	10143.00	9327.38	8939.25
90.0	11678.63	11176.26	10950.69	10950.69	10497.88	9954.51	9221.57	8834.57	8178.69
135.0	11650.50	11661.75	11571.75	11307.38	10969.88	10536.75	10019.25	9670.50	8928.00
180.0	11678.63	11701.13	11622.38	11521.13	11200.50	10801.13	10311.75	9771.75	9423.00
225.0	11644.88	11588.63	10988.38	10988.38	10727.38	10241.94	9671.01	9030.88	8256.88
270.0	11678.63	11706.75	11661.75	11476.13	11189.25	10806.75	10233.00	9659.25	9293.63
315.0	11650.50	11123.94	11123.94	10972.07	10712.19	10109.19	9530.94	8893.07	8224.26
360.0	11678.63	11198.19	11126.76	10975.44	10529.94	9869.01	9509.57	8881.82	8213.01
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7526.76	6688.63	6286.44	5411.76	4706.38	4378.44	3871.07	3391.26	2969.38
45.0	8275.50	7476.75	6784.88	6098.63	5704.88	4962.38	4399.88	3871.13	3381.75
90.0	7494.13	6814.07	6024.32	5640.13	4815.51	4138.26	3833.94	3362.01	2938.44
135.0	8275.50	7611.75	6925.50	6526.13	5755.50	4923.00	4585.50	4051.13	3488.63
180.0	8674.88	7746.75	7341.75	6526.13	5868.00	5266.13	4686.75	4360.50	3747.38
225.0	7848.51	7161.13	6490.63	5693.01	5090.01	4507.82	3978.51	3410.94	3144.88
270.0	8399.25	7988.63	7184.25	6509.25	5862.38	5260.50	4900.50	4248.00	3764.25
315.0	7422.69	7022.76	6370.82	5721.69	5114.19	4434.13	3916.07	3456.51	2949.69
360.0	7526.76	6688.63	6286.44	5411.76	4706.38	4378.44	3871.07	3391.26	2969.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2517.13	2324.76	2049.13	1824.13	1629.51	1499.01	1438.82	1326.88	1258.26
45.0	3111.75	2858.63	2476.63	2052.51	1742.01	1549.63	1400.01	1290.88	1241.94
90.0	2568.88	2186.94	2027.19	1814.57	1641.88	1491.69	1398.88	1355.57	1301.01
135.0	3049.88	3049.88	3049.88	2063.19	1847.19	1736.38	1555.82	1446.13	1361.19
180.0	3291.75	2886.75	2886.75	2209.44	1955.76	1753.26	1657.07	1501.26	1405.63
225.0	2740.44	2375.94	2076.69	1789.26	1602.51	1457.38	1327.44	1292.01	1208.76
270.0	3303.00	2892.38	2892.38	2235.88	1977.69	1844.94	1633.44	1459.63	1400.57
315.0	2720.19	2379.32	2108.19	1882.07	1667.76	1582.82	1464.13	1374.13	1303.26
360.0	2517.13	2324.76	2049.13	1824.13	1629.51	1499.01	1438.82	1326.88	1258.26
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1230.13	1203.13	1104.53	1088.72	1002.26	903.32	793.86	651.88	579.60
45.0	1168.82	1104.69	1074.88	1018.63	963.51	890.38	811.63	761.57	654.13
90.0	1225.63	1204.82	1077.92	1077.92	1028.25	929.98	864.17	694.18	540.00
135.0	1294.82	1262.19	1205.38	1167.13	1120.44	1047.88	992.19	867.32	707.57
180.0	1329.13	1264.44	1215.51	1175.57	1132.26	1093.44	989.38	889.26	777.88
225.0	1112.96	1112.96	1072.80	1026.56	960.86	854.61	792.84	689.06	579.83
270.0	1310.01	1254.32	1207.63	1166.57	1142.38	1073.19	993.88	895.44	781.26
315.0	1238.57	1209.32	1104.69	1104.69	1059.08	964.29	789.19	742.84	601.37
360.0	1230.13	1203.13	1104.53	1088.72	1002.26	903.32	793.86	651.88	579.60
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	462.99	349.26	245.48	138.71	96.02	37.86	27.79	25.71	18.39
45.0	552.32	440.38	336.32	316.63	216.00	102.88	75.66	46.97	37.91
90.0	464.06	345.71	240.19	151.88	77.34	54.90	36.34	30.38	22.16
135.0	635.57	492.13	377.38	311.01	311.01	195.75	48.43	29.59	26.10
180.0	659.19	586.63	447.13	293.57	293.57	200.36	75.15	39.83	28.46
225.0	471.60	343.18	282.49	190.74	80.38	63.45	36.84	32.68	23.63
270.0	709.26	506.76	384.69	316.63	316.63	124.48	66.60	36.06	25.20
315.0	529.14	365.34	236.25	178.54	99.06	50.68	28.86	22.28	18.62
360.0	462.99	349.26	245.48	138.71	96.02	37.86	27.79	25.71	18.39

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	13.33	10.18	9.06	8.61	7.88	7.20	6.81	6.19	5.96
45.0	29.87	22.44	18.00	15.24	13.44	12.60	11.14	10.24	9.28
90.0	16.71	13.44	12.32	11.14	10.63	9.73	8.89	8.16	7.31
135.0	18.34	12.66	8.72	7.37	6.92	6.13	5.57	5.06	4.56
180.0	20.76	14.79	10.46	9.23	8.44	7.88	7.20	6.53	6.24
225.0	16.88	14.40	12.04	10.69	9.62	8.61	8.21	7.43	6.75
270.0	19.35	13.61	10.74	7.43	6.81	6.24	5.68	5.29	4.84
315.0	12.88	8.49	6.41	5.79	5.57	4.89	4.33	4.16	3.77
360.0	13.33	10.18	9.06	8.61	7.88	7.20	6.81	6.19	5.96
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.57	5.29	5.18	5.01	4.78	4.67	4.50	4.44	4.28
45.0	8.49	8.16	7.37	6.81	6.36	5.96	5.46	5.01	4.67
90.0	7.03	6.36	5.85	5.68	5.18	4.95	4.61	4.16	4.05
135.0	4.16	3.83	3.54	3.38	3.26	3.04	2.93	2.87	2.81
180.0	5.57	5.18	4.78	4.44	4.28	3.94	3.71	3.66	3.38
225.0	6.13	5.63	5.40	4.95	4.44	4.28	4.05	3.77	3.49
270.0	4.39	4.05	3.77	3.60	3.26	3.09	3.04	2.98	2.81
315.0	3.43	3.21	2.93	2.81	2.70	2.53	2.42	2.42	2.31
360.0	5.57	5.29	5.18	5.01	4.78	4.67	4.50	4.44	4.28
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.05	3.83	3.60	3.49	3.21	2.87	2.76	2.48	2.25
45.0	4.50	3.99	3.66	3.43	3.09	2.87	2.64	2.48	2.25
90.0	3.77	3.43	3.15	2.87	2.70	2.42	2.08	1.97	1.80
135.0	2.81	2.76	2.64	2.59	2.48	2.31	2.19	2.14	2.03
180.0	3.26	3.15	2.98	2.81	2.64	2.53	2.31	2.25	2.25
225.0	3.26	3.09	2.87	2.76	2.59	2.36	2.36	2.25	2.14
270.0	2.70	2.59	2.53	2.36	2.25	2.08	1.91	1.91	1.80
315.0	2.25	2.31	2.25	2.25	2.19	2.08	2.03	1.97	1.91
360.0	4.05	3.83	3.60	3.49	3.21	2.87	2.76	2.48	2.25
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.08	1.91	1.80	1.69	1.52	1.35	1.29	1.24	1.13
45.0	2.08	1.97	1.80	1.74	1.63	1.63	1.52	1.46	1.35
90.0	1.69	1.58	1.35	1.29	1.13	1.07	1.01	0.84	0.79
135.0	1.91	1.74	1.58	1.52	1.35	1.24	1.18	1.01	1.01
180.0	2.03	1.97	1.86	1.69	1.58	1.46	1.41	1.24	1.07
225.0	2.14	2.14	2.19	2.19	2.19	2.19	2.19	2.25	2.19
270.0	1.63	1.63	1.58	1.58	1.46	1.41	1.35	1.29	1.29
315.0	1.74	1.69	1.52	1.46	1.35	1.18	1.07	1.01	0.90
360.0	2.08	1.91	1.80	1.69	1.52	1.35	1.29	1.24	1.13
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.96	0.96	0.79	0.79	0.67	0.62	0.56	0.56	0.56
45.0	1.29	1.13	1.13	0.96	0.79	0.68	0.56	0.45	0.45
90.0	0.68	0.56	0.51	0.51	0.45	0.39	0.34	0.28	0.23
135.0	0.90	0.79	0.68	0.68	0.62	0.56	0.56	0.51	0.45
180.0	0.90	0.90	0.73	0.68	0.62	0.62	0.56	0.56	0.56
225.0	2.14	2.08	1.86	1.58	1.46	1.13	0.84	0.56	0.56
270.0	1.18	1.07	0.96	0.84	0.79	0.73	0.68	0.45	0.45
315.0	0.90	0.73	0.73	0.68	0.62	0.62	0.62	0.62	0.56
360.0	0.96	0.96	0.79	0.79	0.67	0.62	0.56	0.56	0.56

Intensity data(cd)

C/γ(°)	90.0
0.0	0.51
45.0	0.39
90.0	0.23
135.0	0.51
180.0	0.51
225.0	0.56
270.0	0.39
315.0	0.56
360.0	0.51