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## Nata

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Client: NT

LumCAT: 3-3208-A

Luminaire: 92.70.121.00

Report No: 20260325-B007

Ballast type: DC

Test No: 20260325-C007

Voltage(V): 35.560

LampCAT: CITIZEN CLU038

Current(A): 0.711

Lamp flux(lm): 3692.0

Power (W): 25.280

Number of Lamps: 1

PF: 0.000

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 34

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## Photometric Results

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Lumens(lm): 3335.88, Efficiency(%): 90.35% , Luminous Efficacy(lm/W): 131.96

Central intensity(cd): 6359.709, Maximum intensity(cd): 6359.709

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=75.8

[C90/270]Total=75.8

Maximum s/h(1/2): C0\_180=0.60 C90\_270=0.60

Maximum s/h(1/4): C0\_180=0.64 C90\_270=0.64

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.35%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 99.350%

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Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2026/3/25  
Humidity(%): 60.0%

Operator: 杨泽全  
Distance(m): 9.16

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6359.709	0.000	0	0.00%	0.00%
1.0	6348.277	6.081	6.081	0.16%	0.18%
2.0	6311.988	18.171	24.252	0.49%	0.73%
3.0	6255.142	30.056	54.308	0.81%	1.63%
4.0	6179.836	41.624	95.932	1.13%	2.88%
5.0	6086.806	52.770	148.702	1.43%	4.46%
6.0	5971.436	63.369	212.072	1.72%	6.36%
7.0	5836.453	73.291	285.363	1.99%	8.55%
8.0	5683.954	82.449	367.812	2.23%	11.03%
9.0	5503.662	90.670	458.482	2.46%	13.74%
10.0	5293.164	97.707	556.189	2.65%	16.67%
11.0	5078.156	103.631	659.82	2.81%	19.78%
12.0	4829.061	108.300	768.12	2.93%	23.03%
13.0	4576.190	111.617	879.737	3.02%	26.37%
14.0	4316.083	113.820	993.557	3.08%	29.78%
15.0	4059.856	114.989	1108.546	3.11%	33.23%
16.0	3791.149	115.039	1223.585	3.12%	36.68%
17.0	3539.537	114.158	1337.743	3.09%	40.10%
18.0	3292.749	112.650	1450.393	3.05%	43.48%
19.0	3051.626	110.379	1560.772	2.99%	46.79%
20.0	2824.766	107.554	1668.326	2.91%	50.01%
21.0	2624.861	104.644	1772.97	2.83%	53.15%
22.0	2447.296	101.927	1874.897	2.76%	56.20%
23.0	2286.407	99.326	1974.223	2.69%	59.18%
24.0	2148.906	96.972	2071.195	2.63%	62.09%
25.0	2027.663	94.966	2166.161	2.57%	64.94%
26.0	1886.869	92.403	2258.564	2.50%	67.71%
27.0	1777.383	89.647	2348.211	2.43%	70.39%
28.0	1712.387	88.354	2436.564	2.39%	73.04%
29.0	1633.044	87.526	2524.09	2.37%	75.66%
30.0	1550.502	85.955	2610.045	2.33%	78.24%
31.0	1458.468	83.735	2693.781	2.27%	80.75%
32.0	1364.808	80.884	2774.664	2.19%	83.18%
33.0	1258.427	77.281	2851.946	2.09%	85.49%
34.0	1137.257	72.500	2924.446	1.96%	87.67%
35.0	1005.965	66.561	2991.007	1.80%	89.66%
36.0	875.125	59.894	3050.901	1.62%	91.46%
37.0	748.690	52.960	3103.861	1.43%	93.04%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	624.950	45.850	3149.711	1.24%	94.42%
39.0	511.824	38.801	3188.512	1.05%	95.58%
40.0	405.358	31.988	3220.5	0.87%	96.54%
41.0	318.904	25.791	3246.291	0.70%	97.31%
42.0	233.027	20.053	3266.343	0.54%	97.92%
43.0	140.594	13.840	3280.183	0.37%	98.33%
44.0	79.941	8.324	3288.507	0.23%	98.58%
45.0	51.917	5.067	3293.574	0.14%	98.73%
46.0	37.789	3.508	3297.083	0.10%	98.84%
47.0	29.409	2.673	3299.755	0.07%	98.92%
48.0	23.410	2.135	3301.89	0.06%	98.98%
49.0	18.239	1.710	3303.601	0.05%	99.03%
50.0	14.788	1.377	3304.978	0.04%	99.07%
51.0	12.722	1.164	3306.142	0.03%	99.11%
52.0	11.600	1.044	3307.185	0.03%	99.14%
53.0	10.887	0.978	3308.164	0.03%	99.17%
54.0	10.352	0.936	3309.1	0.03%	99.20%
55.0	9.869	0.903	3310.002	0.02%	99.22%
56.0	9.471	0.874	3310.876	0.02%	99.25%
57.0	9.135	0.851	3311.727	0.02%	99.28%
58.0	8.863	0.832	3312.559	0.02%	99.30%
59.0	8.611	0.817	3313.376	0.02%	99.33%
60.0	8.391	0.803	3314.179	0.02%	99.35%
61.0	8.223	0.793	3314.972	0.02%	99.37%
62.0	8.076	0.785	3315.758	0.02%	99.40%
63.0	7.929	0.778	3316.536	0.02%	99.42%
64.0	7.824	0.773	3317.309	0.02%	99.44%
65.0	7.688	0.768	3318.077	0.02%	99.47%
66.0	7.593	0.762	3318.839	0.02%	99.49%
67.0	7.499	0.759	3319.598	0.02%	99.51%
68.0	7.436	0.757	3320.355	0.02%	99.53%
69.0	7.321	0.753	3321.107	0.02%	99.56%
70.0	7.268	0.749	3321.857	0.02%	99.58%
71.0	7.195	0.748	3322.604	0.02%	99.60%
72.0	7.132	0.745	3323.349	0.02%	99.62%
73.0	7.069	0.743	3324.092	0.02%	99.65%
74.0	7.006	0.740	3324.832	0.02%	99.67%
75.0	6.933	0.736	3325.568	0.02%	99.69%

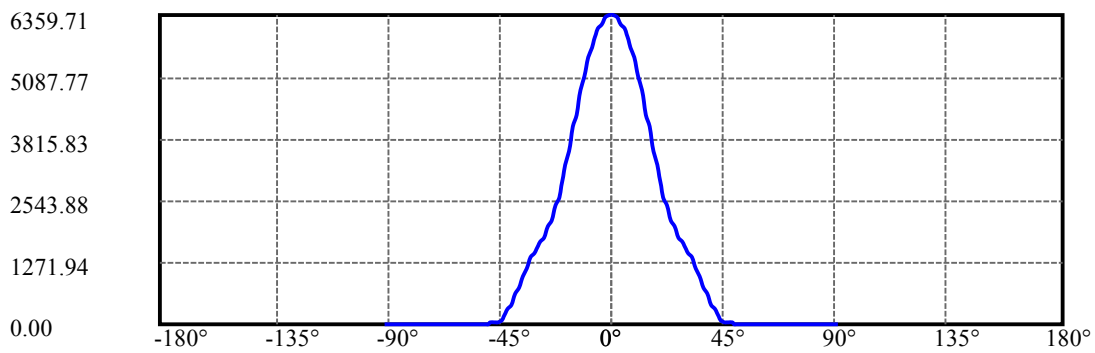
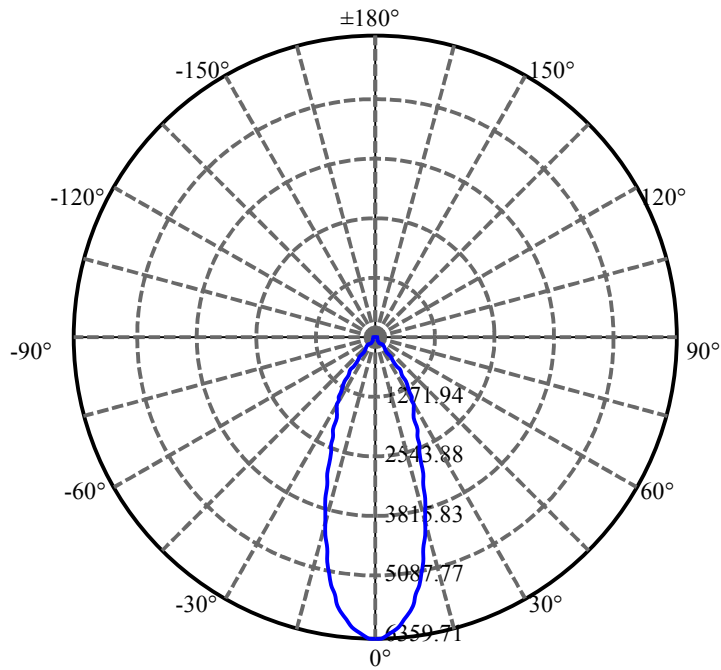
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.901	0.734	3326.303	0.02%	99.71%
77.0	6.796	0.730	3327.033	0.02%	99.73%
78.0	6.702	0.723	3327.755	0.02%	99.76%
79.0	6.639	0.717	3328.472	0.02%	99.78%
80.0	6.608	0.714	3329.186	0.02%	99.80%
81.0	6.503	0.709	3329.895	0.02%	99.82%
82.0	6.440	0.702	3330.597	0.02%	99.84%
83.0	6.335	0.694	3331.292	0.02%	99.86%
84.0	6.230	0.685	3331.976	0.02%	99.88%
85.0	6.125	0.674	3332.65	0.02%	99.90%
86.0	5.999	0.663	3333.313	0.02%	99.92%
87.0	5.947	0.654	3333.967	0.02%	99.94%
88.0	5.852	0.646	3334.613	0.02%	99.96%
89.0	5.779	0.638	3335.251	0.02%	99.98%
90.0	5.664	0.627	3335.878	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2610.05	70.69%	78.24%
0-40	3220.50	87.23%	96.54%
0-60	3314.18	89.77%	99.35%
0-90	3335.25	90.34%	99.98%
0-120	3335.25	90.34%	99.98%
0-180	3335.88	90.35%	100.00%
60-90	21.07	0.57%	0.63%
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%
0-30.70	2668.70	72.28%	80.00%

ZONAL LUMEN SUMMARY

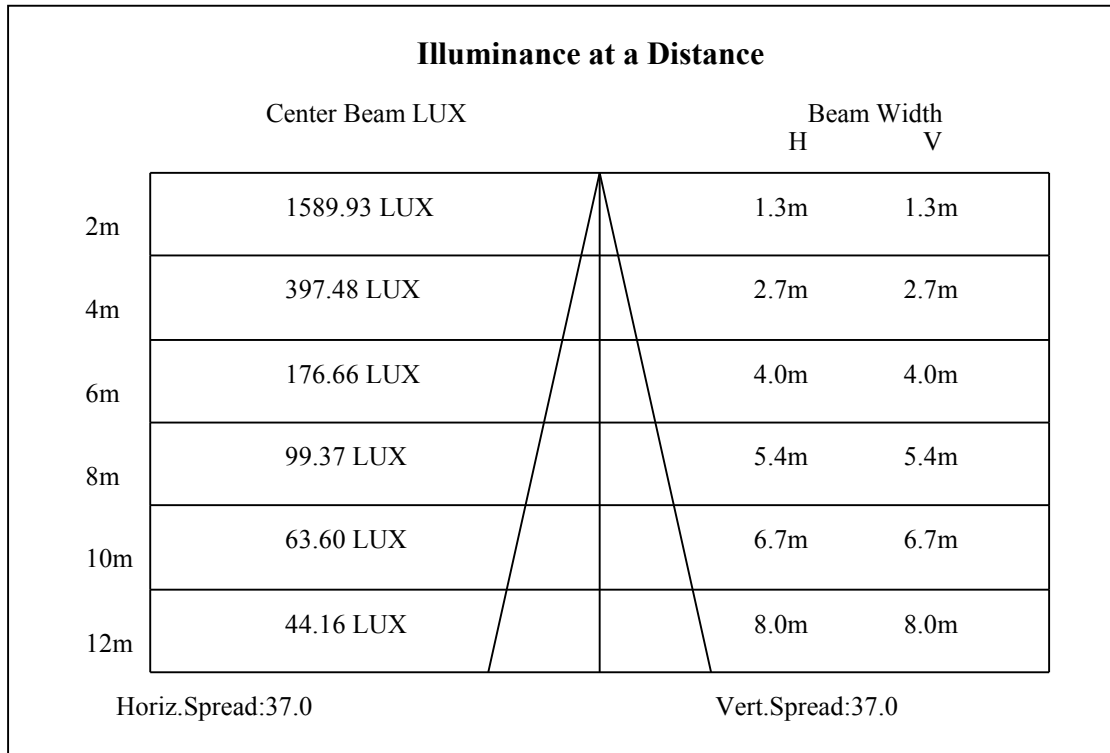
0-10	556.19
10-20	1112.14
20-30	941.72
30-40	610.45
40-50	84.48
50-60	9.20
60-70	7.68
70-80	7.33
80-90	6.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

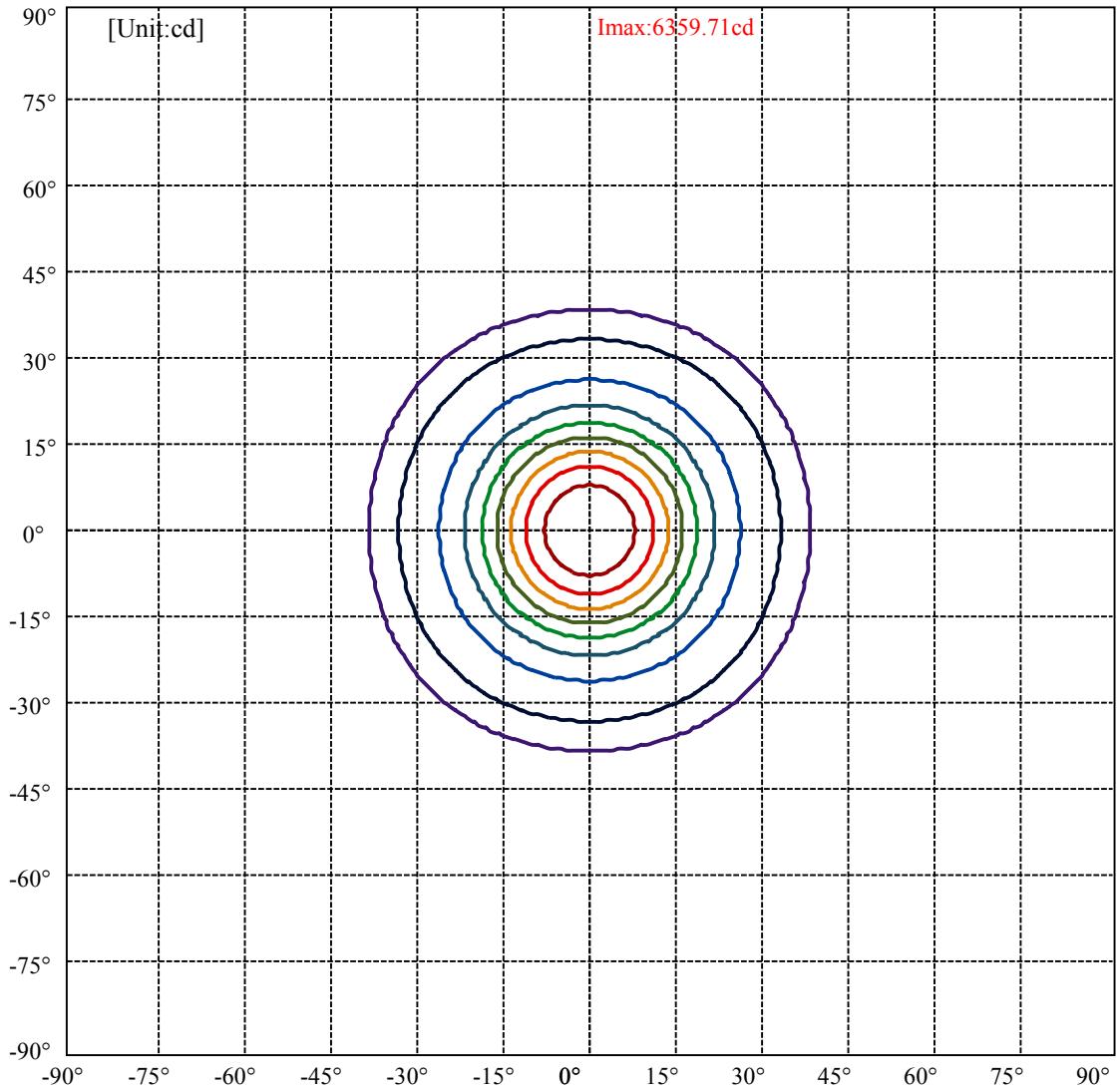


C90/C270: —————

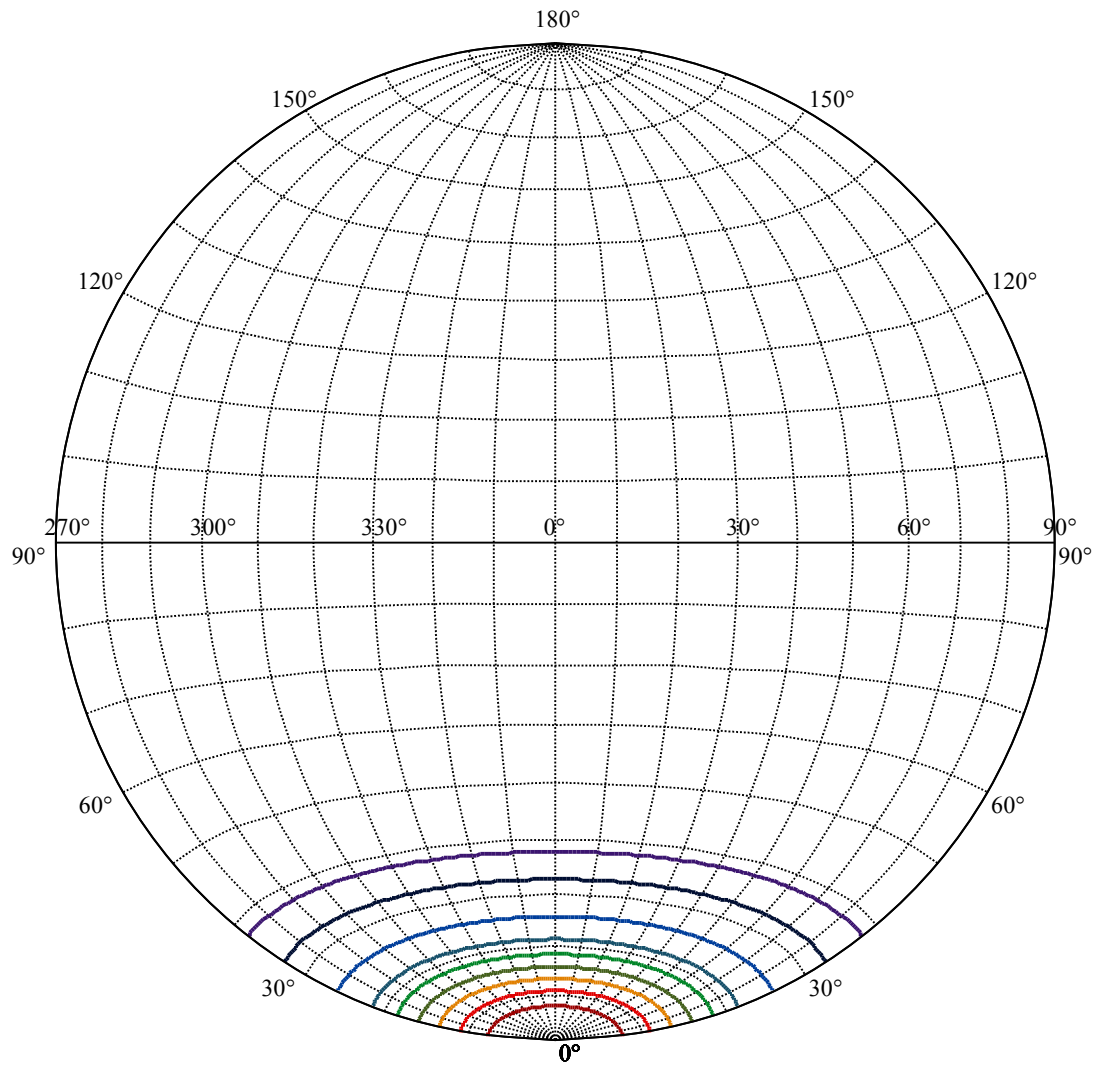
Field angle(10%Imax):C90/270Left:37.9 Right:37.9

Beam Angle(50%Imax):C90/270Left:18.5 Right:18.5





(10%Imax) 635.971	—
(20%Imax) 1271.94	—
(30%Imax) 1907.91	—
(40%Imax) 2543.88	—
(50%Imax) 3179.85	—
(60%Imax) 3815.83	—
(70%Imax) 4451.8	—
(80%Imax) 5087.77	—
(90%Imax) 5723.74	—



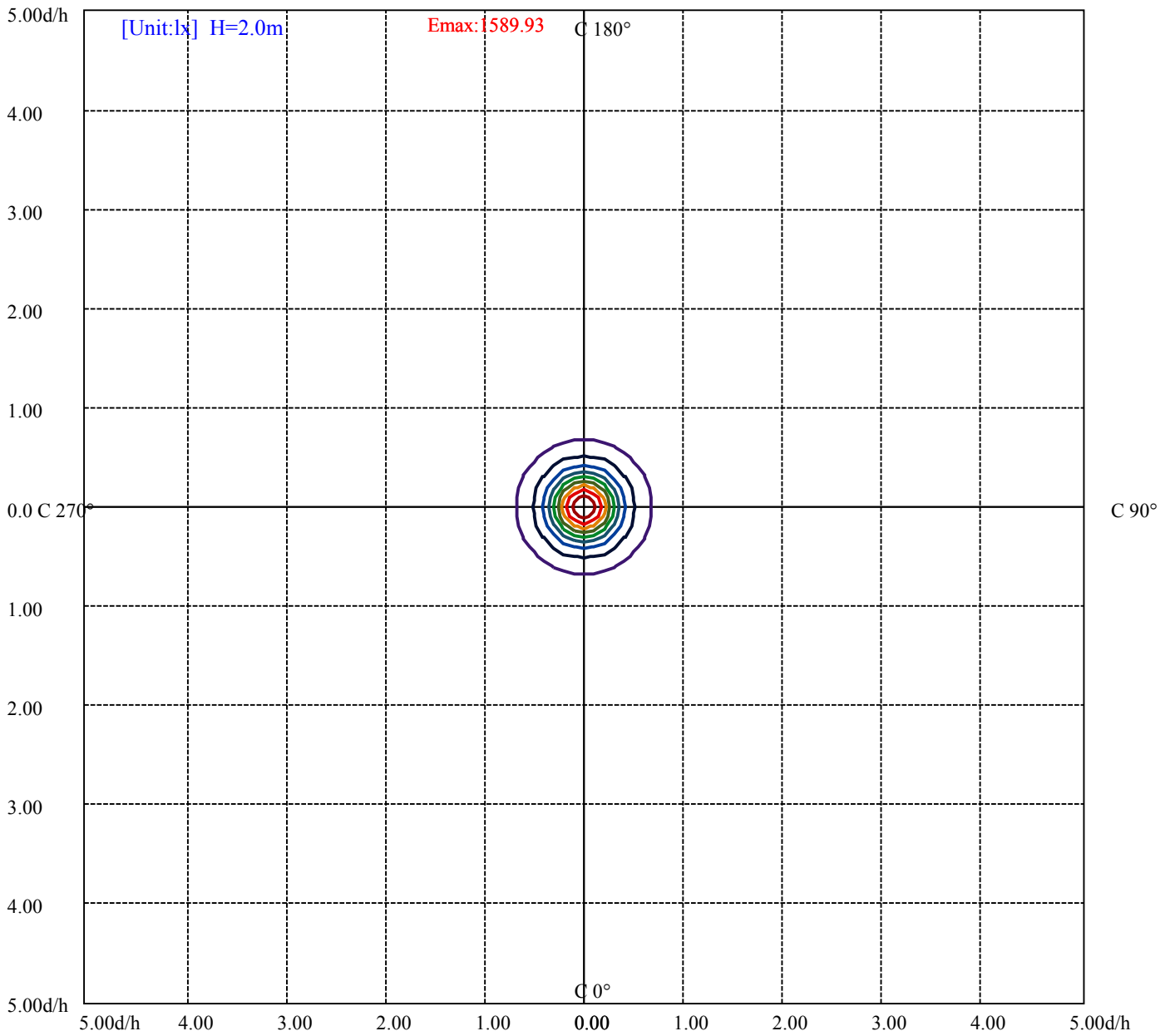
House

[Unit:cd]

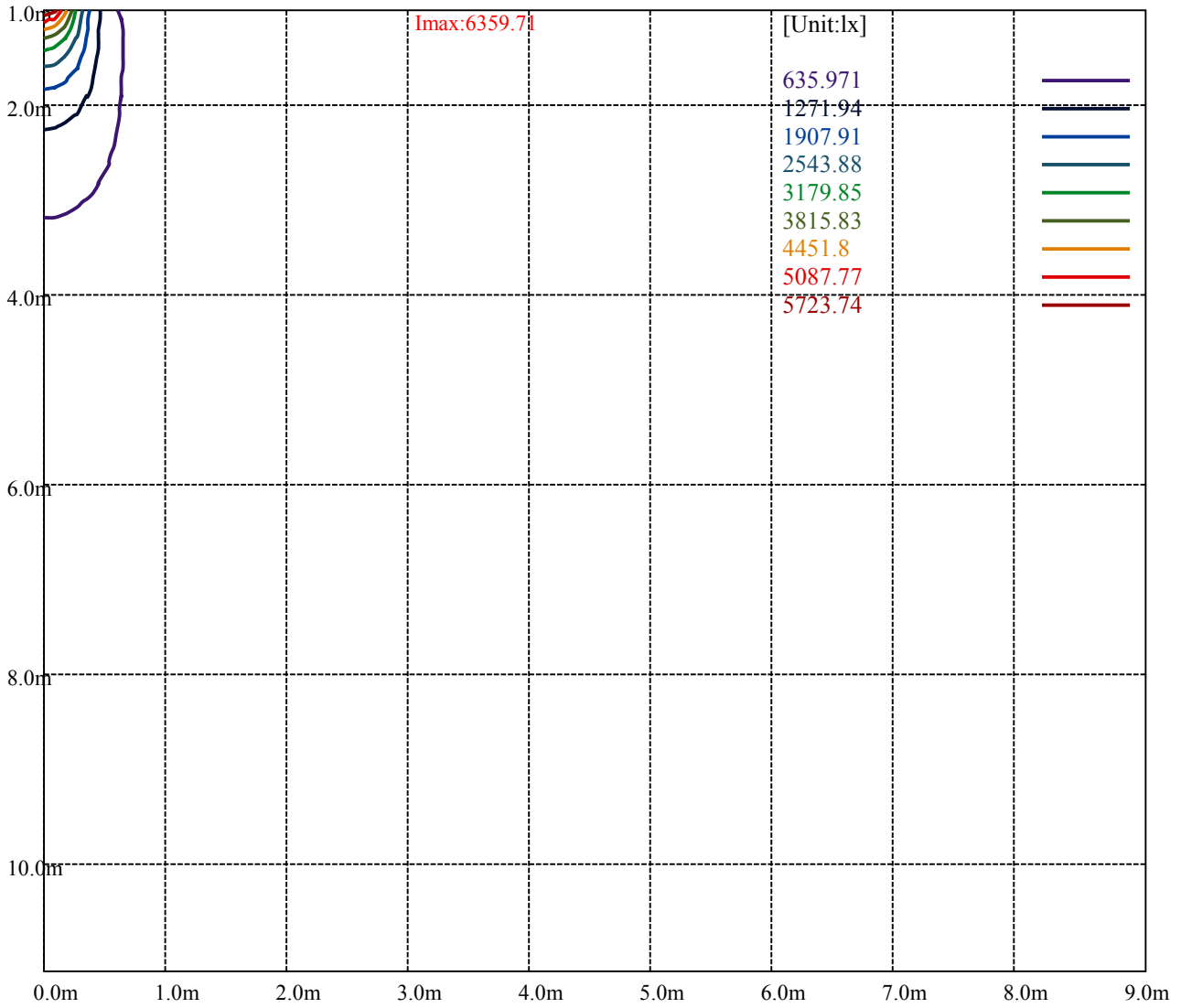
Road

**Imax:6359.71**

- (10%Imax) 635.971
- (20%Imax) 1271.94
- (30%Imax) 1907.91
- (40%Imax) 2543.88
- (50%Imax) 3179.85
- (60%Imax) 3815.83
- (70%Imax) 4451.8
- (80%Imax) 5087.77
- (90%Imax) 5723.74



- (10%Emax) 158.9928
- (20%Emax) 317.985
- (30%Emax) 476.9775
- (40%Emax) 635.97
- (50%Emax) 794.9625
- (60%Emax) 953.955
- (70%Emax) 1112.948
- (80%Emax) 1271.943
- (90%Emax) 1430.935



Luminance Table

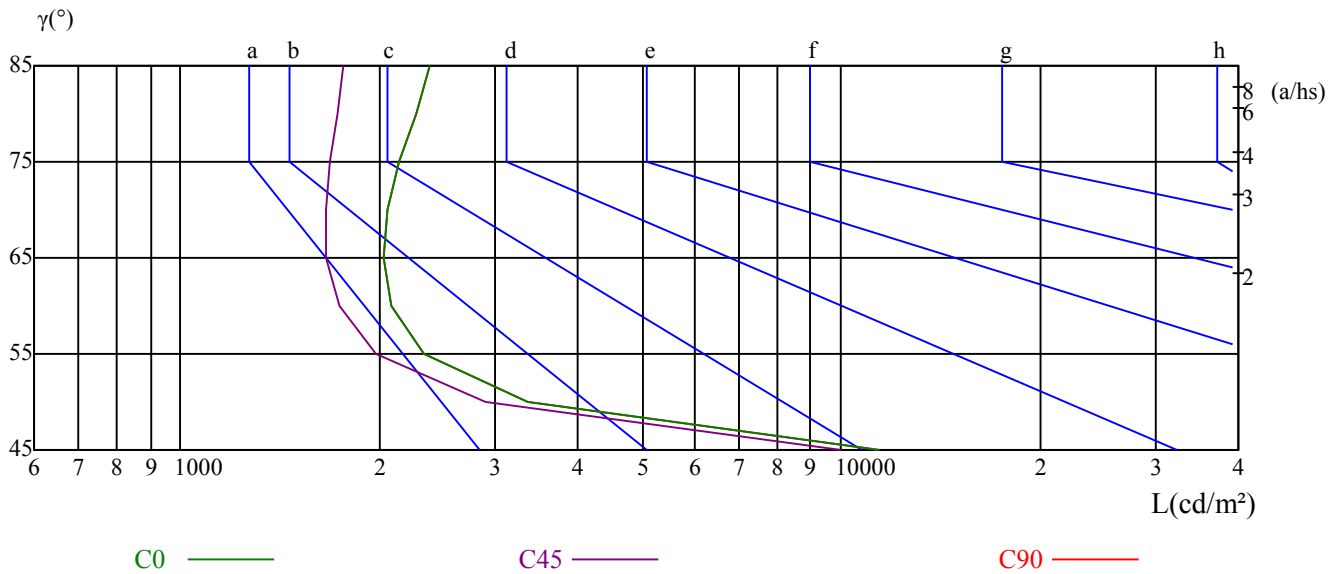
$\gamma$	45	50	55	60	65	70	75	80	85
C0	11410	3354	2331	2084	2029	2064	2148	2271	2383
C45	9989	2894	1980	1741	1665	1659	1686	1734	1759
C90	11410	3354	2331	2084	2029	2064	2148	2271	2383

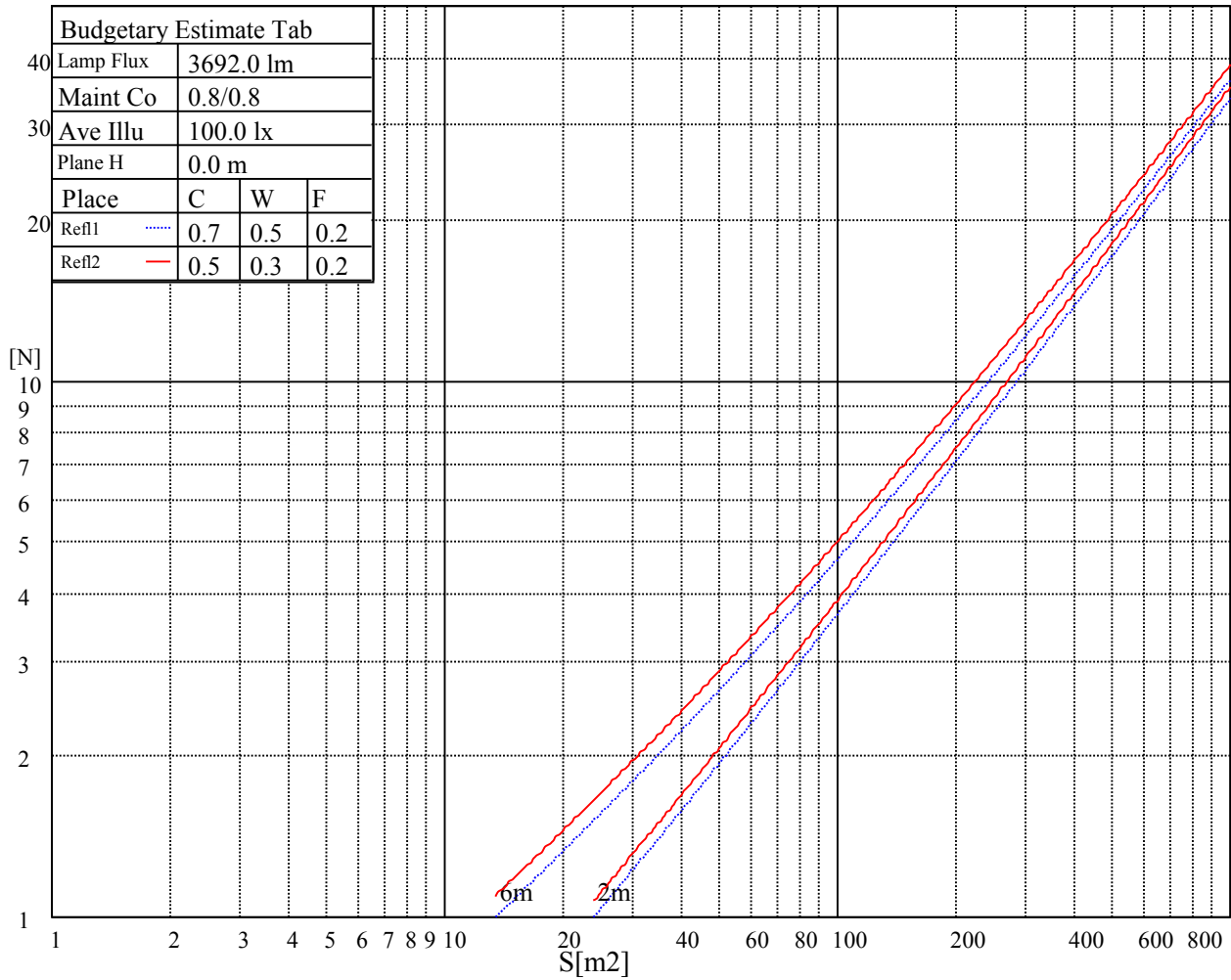
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4306	4306	4306	6340	6340	6340	16634	16634	16634

Glare Table

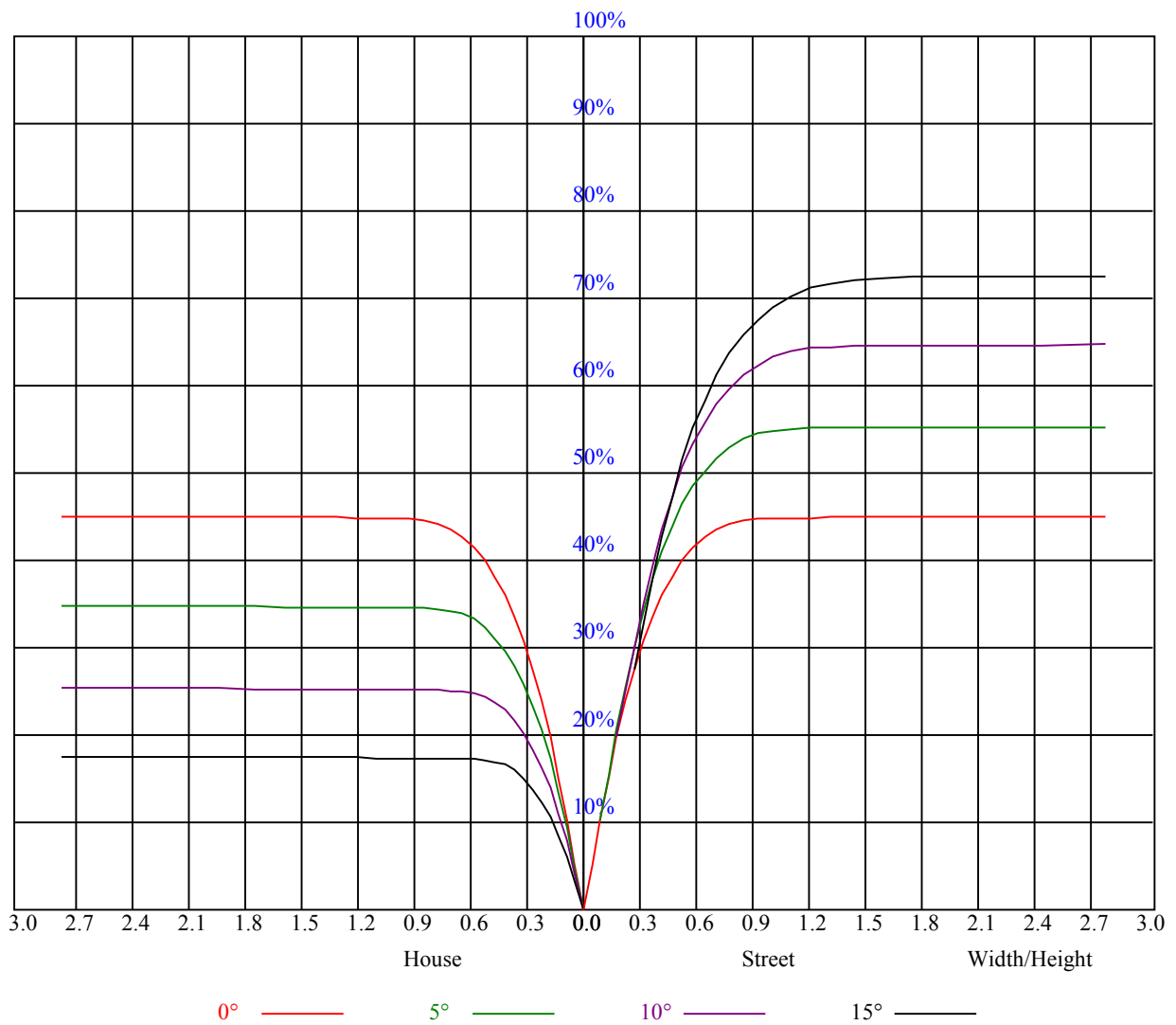
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

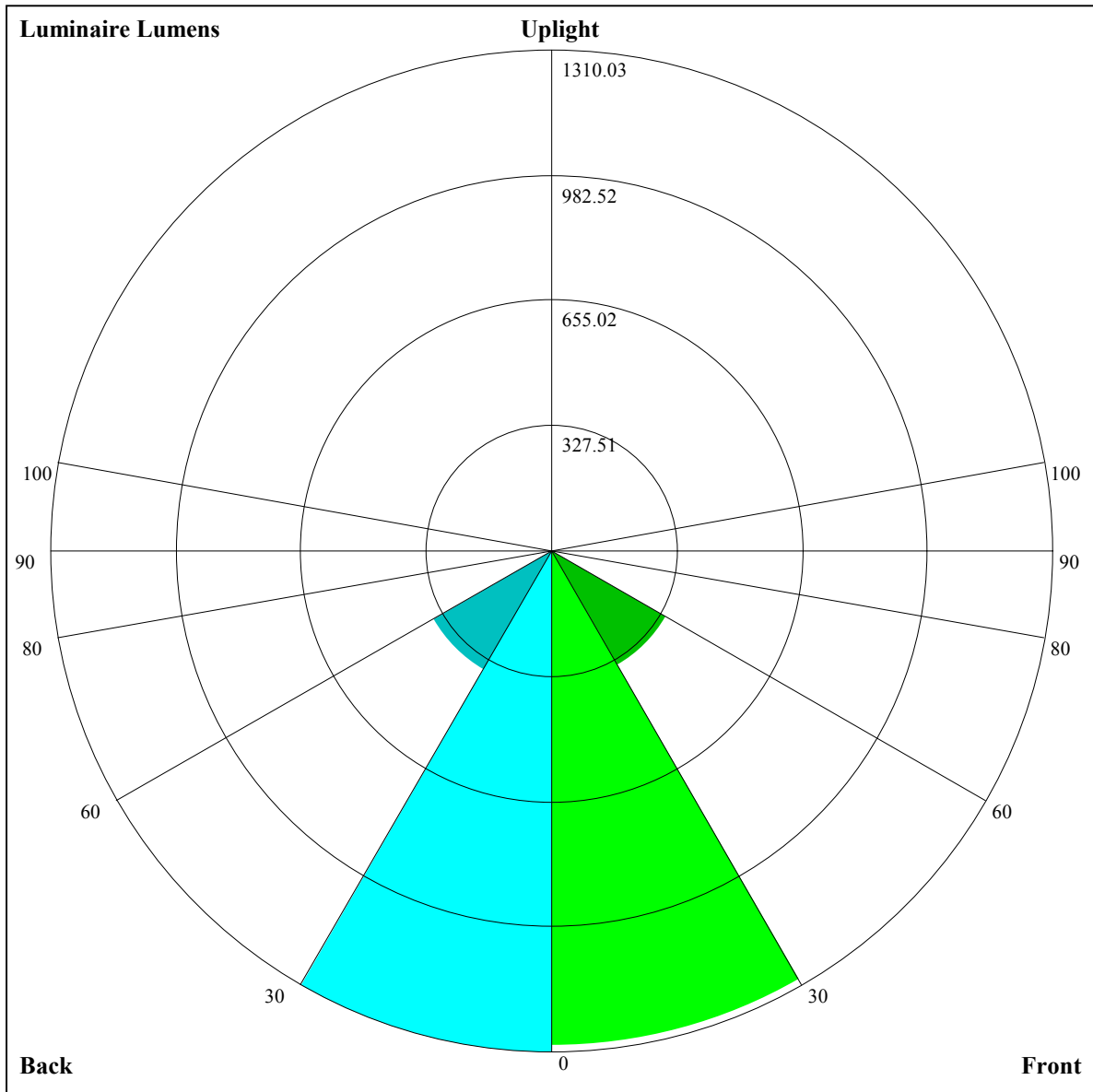
Luminance Limiting Curve





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	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.98	0.97	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.89	0.88	0.87	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
6	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.70	0.67	0.65	0.64
7	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.60
8	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
9	0.64	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.62	0.58	0.55	0.54
10	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.52





Luminaire Lumens:

FL=1294.06,FM=343.73,FH=7.5,FVH=3.34

BL=1310.03,BM=358.94,BH=7.59,BVH=3.35

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	6369.36	6355.09	6313.14	6254.41	6175.54	6053.87	5944.80	5813.90	5670.42
45.0	6348.38	6366.84	6366.84	6346.70	6307.27	6239.30	6145.33	6055.55	5923.82
90.0	6368.52	6363.48	6342.51	6295.52	6220.01	6136.94	6016.12	5886.06	5746.78
135.0	6352.58	6369.36	6352.58	6322.37	6277.06	6209.10	6117.64	5981.71	5857.53
180.0	6369.36	6345.86	6313.14	6261.96	6190.64	6086.60	5992.62	5875.99	5740.91
225.0	6348.38	6314.82	6239.30	6170.50	6060.59	5960.74	5836.56	5651.13	5475.76
270.0	6368.52	6356.77	6324.05	6251.05	6168.82	6084.92	5959.90	5823.97	5631.83
315.0	6352.58	6313.98	6244.34	6138.62	6038.77	5922.98	5758.53	5603.30	5424.58
360.0	6369.36	6355.09	6313.14	6254.41	6175.54	6053.87	5944.80	5813.90	5670.42
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5462.34	5265.16	5049.52	4815.43	4501.62	4251.58	4005.74	3704.52	3470.42
45.0	5793.77	5593.23	5415.35	5213.98	4920.31	4669.43	4414.36	4102.23	3845.48
90.0	5555.47	5365.85	5156.92	4870.80	4621.60	4367.37	4059.44	3810.24	3577.82
135.0	5727.48	5572.25	5359.13	5156.08	4942.12	4708.87	4414.36	4173.55	3878.20
180.0	5544.57	5359.13	5150.21	4869.96	4635.87	4394.22	4162.64	3878.20	3654.17
225.0	5271.87	4999.18	4763.40	4521.76	4282.63	3974.69	3738.08	3504.82	3261.49
270.0	5455.63	5250.06	5025.19	4721.45	4479.80	4236.48	3991.47	3695.29	3452.80
315.0	5218.17	4940.45	4705.51	4463.02	4225.57	3926.03	3692.77	3460.35	3175.91
360.0	5462.34	5265.16	5049.52	4815.43	4501.62	4251.58	4005.74	3704.52	3470.42
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3243.04	2968.66	2767.29	2586.05	2384.68	2241.20	2114.51	2003.75	1881.25
45.0	3603.83	3363.02	3085.29	2864.62	2677.51	2502.15	2313.36	2179.11	2059.13
90.0	3342.04	3061.80	2841.13	2645.63	2467.75	2274.76	2136.32	2016.34	1886.28
135.0	3649.98	3429.31	3156.61	2946.85	2748.83	2570.95	2382.16	2249.59	2128.77
180.0	3365.54	3143.19	2930.91	2687.58	2514.73	2358.67	2229.46	2083.46	1976.90
225.0	2976.22	2753.03	2565.08	2356.99	2221.07	2072.55	1970.19	1877.05	1663.68
270.0	3211.99	2990.48	2725.34	2542.42	2337.69	2197.57	2075.07	1939.14	1844.33
315.0	2949.37	2703.52	2526.48	2368.74	2226.10	2073.39	1970.19	1872.86	1654.62
360.0	3243.04	2968.66	2767.29	2586.05	2384.68	2241.20	2114.51	2003.75	1881.25
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1663.60	1663.60	1623.49	1528.26	1449.30	1359.94	1223.93	1104.20	981.36
45.0	1927.40	1833.42	1730.22	1653.86	1578.35	1507.87	1402.99	1296.43	1179.80
90.0	1658.48	1658.48	1597.31	1519.53	1428.07	1346.01	1245.83	1133.82	982.70
135.0	2018.01	1898.03	1807.41	1720.99	1621.14	1543.11	1460.88	1339.22	1229.30
180.0	1880.41	1793.15	1691.62	1604.36	1526.33	1424.80	1332.50	1213.36	1054.78
225.0	1663.68	1605.11	1529.10	1456.01	1343.16	1237.52	1125.26	1008.21	864.31
270.0	1752.87	1653.02	1571.64	1492.76	1416.41	1307.33	1202.45	1078.27	949.06
315.0	1654.62	1594.29	1513.57	1428.24	1304.98	1191.88	1073.57	924.56	806.42
360.0	1663.60	1663.60	1623.49	1528.26	1449.30	1359.94	1223.93	1104.20	981.36
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	828.90	712.11	568.29	458.12	355.68	261.53	177.80	95.74	57.31
45.0	1058.97	902.91	777.05	659.58	553.02	443.94	443.94	224.70	131.23
90.0	863.81	749.11	639.95	532.63	409.29	316.32	229.90	140.46	86.51
135.0	1078.27	950.73	818.16	691.47	544.63	429.68	429.68	304.83	137.69
180.0	943.18	818.16	665.46	553.86	443.94	443.94	211.53	138.61	83.23
225.0	747.85	605.21	497.14	394.10	272.78	189.29	121.16	65.28	43.88
270.0	816.49	700.70	591.62	465.76	439.75	318.09	158.58	98.92	63.18
315.0	663.53	550.59	441.93	339.06	223.78	148.43	91.62	56.22	36.50
360.0	828.90	712.11	568.29	458.12	355.68	261.53	177.80	95.74	57.31

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	37.59	30.29	24.42	19.13	14.10	11.66	10.99	10.24	9.82
45.0	76.02	46.40	34.82	28.95	21.90	17.03	13.59	12.17	11.33
90.0	51.85	40.53	33.90	26.18	20.81	16.61	14.26	12.92	12.08
135.0	85.08	55.13	39.60	32.14	25.76	18.79	14.52	12.25	11.24
180.0	53.62	38.09	32.05	25.34	18.88	14.77	12.17	11.50	10.82
225.0	37.09	30.29	22.49	17.45	14.26	12.92	12.08	11.41	10.91
270.0	43.21	36.92	30.04	24.16	18.38	15.61	13.76	12.42	11.41
315.0	30.88	24.67	17.96	13.93	11.83	10.91	10.40	9.90	9.48
360.0	37.59	30.29	24.42	19.13	14.10	11.66	10.99	10.24	9.82
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.40	9.06	8.73	8.47	8.31	8.05	7.89	7.80	7.72
45.0	10.82	10.32	9.90	9.48	9.15	8.89	8.56	8.39	8.22
90.0	11.41	10.82	10.15	9.82	9.48	9.15	8.89	8.64	8.47
135.0	10.66	10.15	9.73	9.23	8.89	8.64	8.47	8.14	7.97
180.0	10.32	9.65	9.31	8.98	8.73	8.47	8.22	8.14	7.97
225.0	10.32	9.90	9.48	9.23	8.98	8.73	8.56	8.39	8.22
270.0	10.82	10.32	9.98	9.65	9.31	9.06	8.81	8.64	8.56
315.0	9.06	8.73	8.47	8.22	8.05	7.89	7.72	7.64	7.47
360.0	9.40	9.06	8.73	8.47	8.31	8.05	7.89	7.80	7.72
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.55	7.55	7.47	7.38	7.30	7.30	7.22	7.22	7.13
45.0	8.05	7.97	7.80	7.64	7.55	7.47	7.38	7.30	7.22
90.0	8.31	8.05	7.89	7.80	7.72	7.64	7.47	7.38	7.30
135.0	7.89	7.72	7.64	7.55	7.38	7.38	7.22	7.22	7.13
180.0	7.80	7.80	7.64	7.55	7.47	7.38	7.38	7.38	7.38
225.0	8.05	7.97	7.80	7.72	7.55	7.47	7.38	7.22	7.22
270.0	8.31	8.14	7.97	7.89	7.80	7.72	7.55	7.47	7.30
315.0	7.47	7.38	7.30	7.22	7.13	7.05	6.96	6.96	6.88
360.0	7.55	7.55	7.47	7.38	7.30	7.30	7.22	7.22	7.13
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.13	7.13	7.05	6.96	6.96	6.80	6.80	6.71	6.63
45.0	7.13	7.05	7.05	6.96	6.96	6.88	6.80	6.71	6.71
90.0	7.22	7.13	7.05	6.96	6.88	6.80	6.71	6.63	6.63
135.0	7.13	7.05	6.96	6.96	6.88	6.80	6.71	6.63	6.63
180.0	7.22	7.22	7.13	7.05	7.05	6.96	6.80	6.71	6.71
225.0	7.13	7.05	6.96	6.88	6.88	6.80	6.63	6.63	6.54
270.0	7.22	7.13	7.05	6.96	6.96	6.80	6.71	6.71	6.71
315.0	6.88	6.80	6.80	6.71	6.63	6.54	6.46	6.38	6.29
360.0	7.13	7.13	7.05	6.96	6.96	6.80	6.80	6.71	6.63
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.54	6.46	6.38	6.29	6.21	6.04	5.96	6.04	5.87
45.0	6.63	6.54	6.46	6.38	6.29	6.13	6.04	5.96	5.87
90.0	6.54	6.54	6.38	6.21	6.13	6.04	5.96	5.79	5.79
135.0	6.46	6.46	6.38	6.29	6.21	6.04	6.04	5.96	5.87
180.0	6.63	6.54	6.46	6.29	6.21	6.13	6.04	6.04	5.96
225.0	6.38	6.29	6.21	6.13	6.04	5.87	5.87	5.71	5.62
270.0	6.54	6.46	6.38	6.29	6.04	5.96	5.87	5.71	5.71
315.0	6.29	6.21	6.04	5.96	5.87	5.79	5.79	5.62	5.54
360.0	6.54	6.46	6.38	6.29	6.21	6.04	5.96	6.04	5.87

Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	90.0
0.0	5.71
45.0	5.71
90.0	5.62
135.0	5.79
180.0	5.71
225.0	5.62
270.0	5.62
315.0	5.54
360.0	5.71