



NATA LIGHTING CO.,LED
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Address:380 JinOu Road, JiangMen City, GuangDong, China 529040

NT

Client: NT

LumCAT: 2-2884-L

Luminaire: 90.70.412.00 LED HOLDER

Report No: 20250321-B006

Ballast type: AC

Test No: 20250321-C006

Voltage(V): 35.710

LampCAT: LUMILEDS LUXEON COB 1205 Current(A): 0.599

Lamp flux(lm): 2390.9 Power (W): 21.390

Number of Lamps: 1 PF: 0.000

Length(mm): 63 Width(mm): 63

Phm Type: C Height(mm): 40

Photometric Results

Lumens(lm): 2259.08, Efficiency(%): 94.49% , Luminous Efficacy(lm/W): 105.61

Central intensity(cd): 7823.665, Maximum intensity(cd): 8006.449

Angle of maximum intensity: C=180.0 γ =2.0

Beam Angle(50%Imax): [C0/180]Total=24.1

[C90/270]Total=24.0

Field angle(10%Imax): [C0/180]Total=61.4

[C90/270]Total=60.9

Maximum s/h(1/2): C0_180=0.48 C90_270=0.36

Maximum s/h(1/4): C0_180=0.50 C90_270=0.42

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.39%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.823%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/3/4
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7917.855	0.000	0	0.00%	0.00%
1.0	7868.761	7.554	7.554	0.32%	0.33%
2.0	7720.882	22.376	29.929	0.94%	1.32%
3.0	7483.408	36.364	66.293	1.52%	2.93%
4.0	7188.981	49.113	115.406	2.05%	5.11%
5.0	6857.384	60.427	175.833	2.53%	7.78%
6.0	6434.728	69.854	245.686	2.92%	10.88%
7.0	6035.585	77.403	323.089	3.24%	14.30%
8.0	5628.650	83.479	406.568	3.49%	18.00%
9.0	5224.179	87.956	494.524	3.68%	21.89%
10.0	4782.538	90.557	585.082	3.79%	25.90%
11.0	4387.925	91.632	676.713	3.83%	29.96%
12.0	4016.960	91.877	768.591	3.84%	34.02%
13.0	3664.114	91.155	859.746	3.81%	38.06%
14.0	3324.657	89.456	949.201	3.74%	42.02%
15.0	3030.562	87.247	1036.449	3.65%	45.88%
16.0	2724.278	84.325	1120.773	3.53%	49.61%
17.0	2468.753	80.869	1201.643	3.38%	53.19%
18.0	2258.057	77.935	1279.577	3.26%	56.64%
19.0	2037.437	74.733	1354.31	3.13%	59.95%
20.0	1861.446	71.360	1425.671	2.98%	63.11%
21.0	1692.783	68.248	1493.919	2.85%	66.13%
22.0	1545.636	65.077	1558.997	2.72%	69.01%
23.0	1416.741	62.159	1621.155	2.60%	71.76%
24.0	1291.623	59.215	1680.37	2.48%	74.38%
25.0	1173.379	56.049	1736.419	2.34%	76.86%
26.0	1122.847	54.203	1790.621	2.27%	79.26%
27.0	1049.753	53.153	1843.774	2.22%	81.62%
28.0	976.946	51.312	1895.086	2.15%	83.89%
29.0	912.704	49.439	1944.525	2.07%	86.08%
30.0	827.027	46.972	1991.497	1.96%	88.16%
31.0	735.049	43.470	2034.967	1.82%	90.08%
32.0	653.569	39.782	2074.75	1.66%	91.84%
33.0	552.577	35.534	2110.283	1.49%	93.41%
34.0	462.437	30.717	2141	1.28%	94.77%
35.0	378.346	26.112	2167.112	1.09%	95.93%
36.0	297.938	21.533	2188.645	0.90%	96.88%
37.0	221.433	16.939	2205.584	0.71%	97.63%

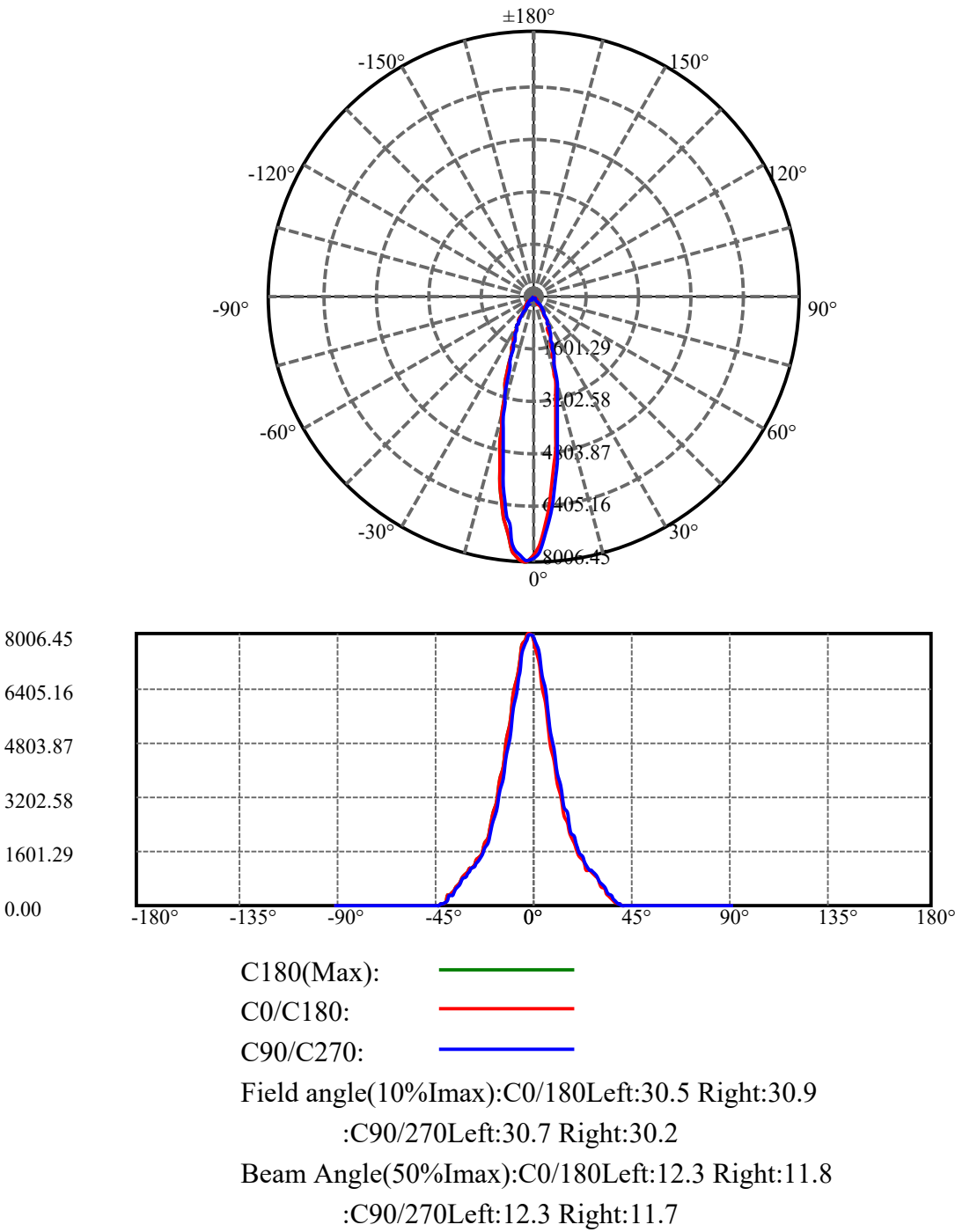
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	169.016	13.033	2218.617	0.55%	98.21%
39.0	100.432	9.197	2227.814	0.38%	98.62%
40.0	55.648	5.444	2233.257	0.23%	98.86%
41.0	32.953	3.155	2236.412	0.13%	99.00%
42.0	23.574	2.054	2238.466	0.09%	99.09%
43.0	19.797	1.607	2240.073	0.07%	99.16%
44.0	17.046	1.391	2241.463	0.06%	99.22%
45.0	14.808	1.224	2242.687	0.05%	99.27%
46.0	12.803	1.080	2243.767	0.05%	99.32%
47.0	11.178	0.954	2244.721	0.04%	99.36%
48.0	9.912	0.853	2245.573	0.04%	99.40%
49.0	8.866	0.771	2246.345	0.03%	99.44%
50.0	8.100	0.707	2247.052	0.03%	99.47%
51.0	7.514	0.661	2247.713	0.03%	99.50%
52.0	7.108	0.627	2248.34	0.03%	99.52%
53.0	6.788	0.604	2248.944	0.03%	99.55%
54.0	6.515	0.586	2249.531	0.02%	99.58%
55.0	6.315	0.573	2250.103	0.02%	99.60%
56.0	6.155	0.563	2250.667	0.02%	99.63%
57.0	5.935	0.553	2251.22	0.02%	99.65%
58.0	5.802	0.543	2251.762	0.02%	99.68%
59.0	5.642	0.535	2252.298	0.02%	99.70%
60.0	5.436	0.523	2252.821	0.02%	99.72%
61.0	5.196	0.507	2253.328	0.02%	99.75%
62.0	4.949	0.489	2253.817	0.02%	99.77%
63.0	4.670	0.468	2254.285	0.02%	99.79%
64.0	4.316	0.441	2254.726	0.02%	99.81%
65.0	3.977	0.410	2255.136	0.02%	99.83%
66.0	3.524	0.374	2255.51	0.02%	99.84%
67.0	3.191	0.338	2255.848	0.01%	99.86%
68.0	2.838	0.305	2256.153	0.01%	99.87%
69.0	2.458	0.270	2256.424	0.01%	99.88%
70.0	2.198	0.239	2256.663	0.01%	99.89%
71.0	1.985	0.216	2256.879	0.01%	99.90%
72.0	1.825	0.198	2257.077	0.01%	99.91%
73.0	1.692	0.184	2257.261	0.01%	99.92%
74.0	1.559	0.171	2257.432	0.01%	99.93%
75.0	1.452	0.159	2257.591	0.01%	99.93%

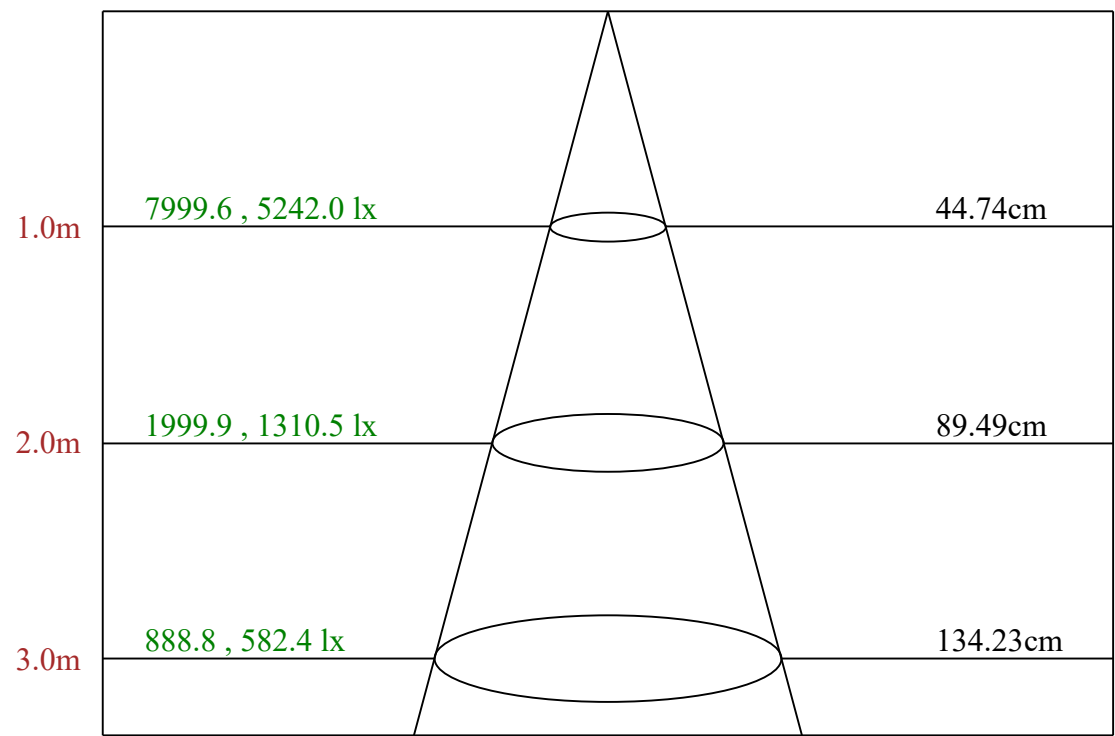
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.372	0.150	2257.741	0.01%	99.94%
77.0	1.306	0.143	2257.884	0.01%	99.95%
78.0	1.219	0.135	2258.019	0.01%	99.95%
79.0	1.166	0.128	2258.147	0.01%	99.96%
80.0	1.092	0.122	2258.269	0.01%	99.96%
81.0	1.006	0.113	2258.382	0.00%	99.97%
82.0	0.926	0.105	2258.487	0.00%	99.97%
83.0	0.833	0.096	2258.583	0.00%	99.98%
84.0	0.773	0.087	2258.67	0.00%	99.98%
85.0	0.713	0.081	2258.751	0.00%	99.99%
86.0	0.659	0.075	2258.826	0.00%	99.99%
87.0	0.619	0.070	2258.896	0.00%	99.99%
88.0	0.573	0.065	2258.961	0.00%	99.99%
89.0	0.520	0.060	2259.021	0.00%	100.00%
90.0	0.473	0.054	2259.076	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1991.50	83.29%	88.16%
0-40	2233.26	93.41%	98.86%
0-60	2252.82	94.22%	99.72%
0-90	2259.02	94.48%	100.00%
0-120	2259.02	94.48%	100.00%
0-180	2259.08	94.49%	100.00%
60-90	6.20	0.26%	0.27%
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%
0-26.31	1807.26	75.59%	80.00%

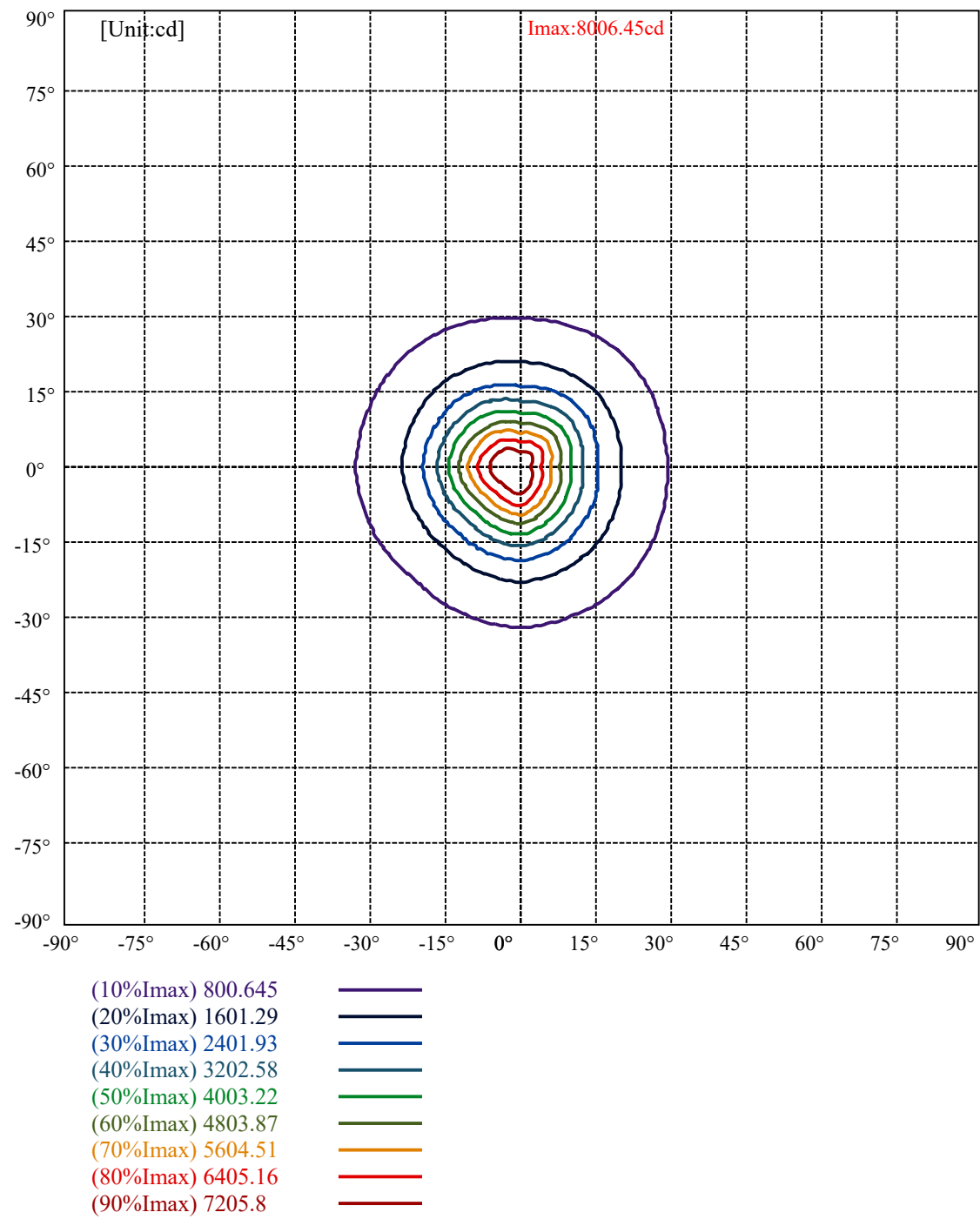
ZONAL LUMEN SUMMARY

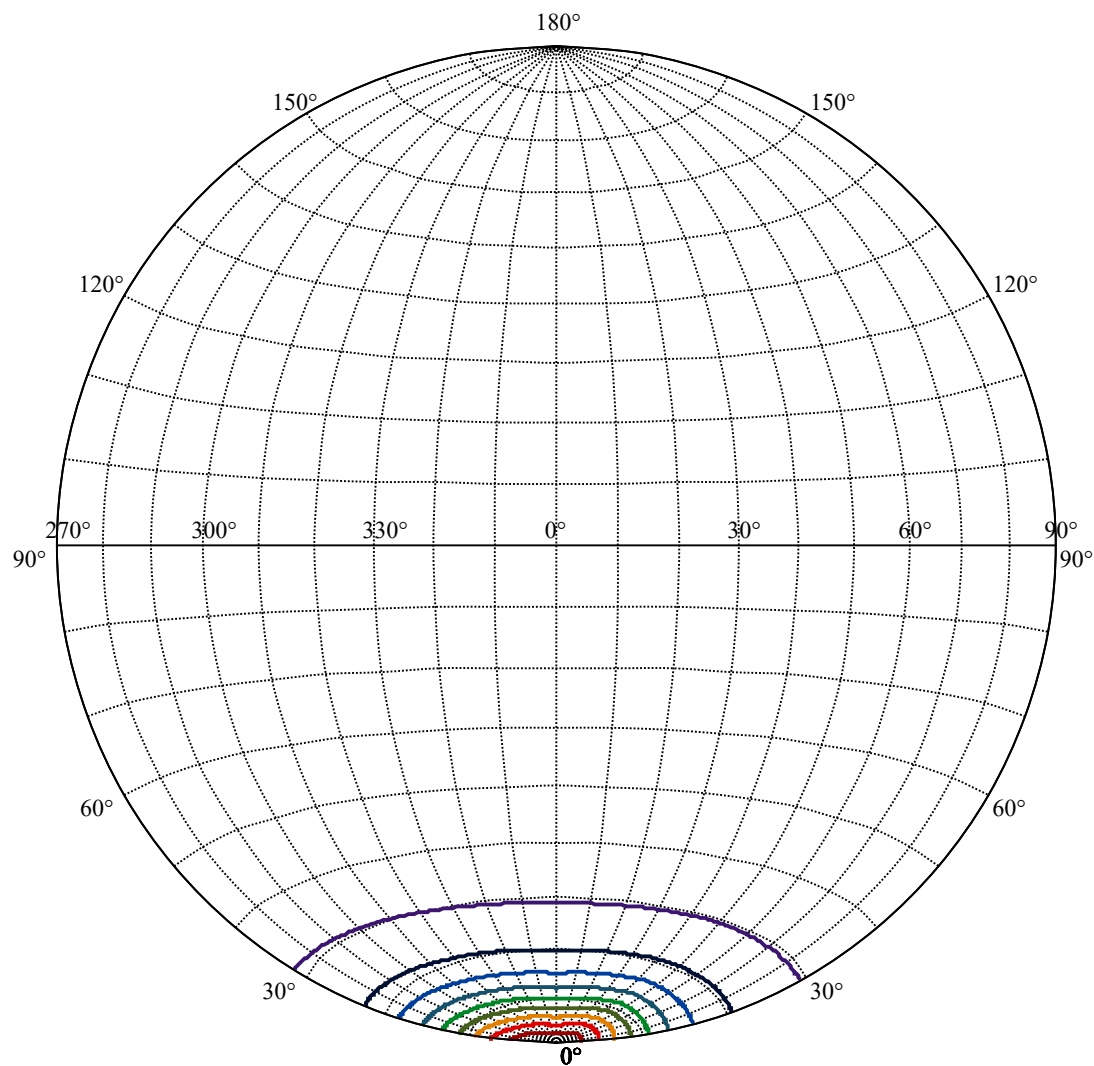
0-10	585.08
10-20	840.59
20-30	565.83
30-40	241.76
40-50	13.79
50-60	5.77
60-70	3.84
70-80	1.61
80-90	0.75
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C180 plane 25.22





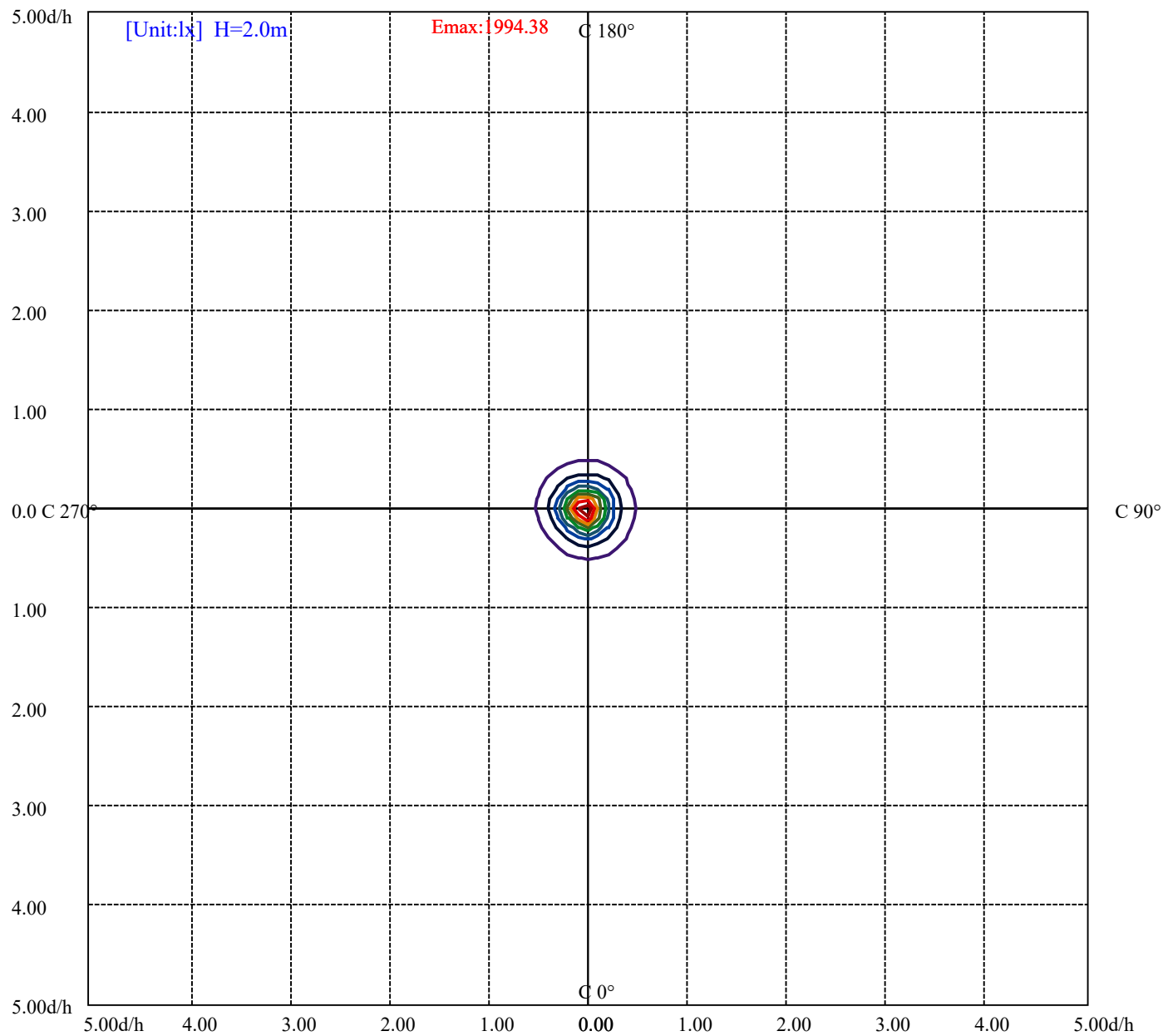
House

[Unit:cd]

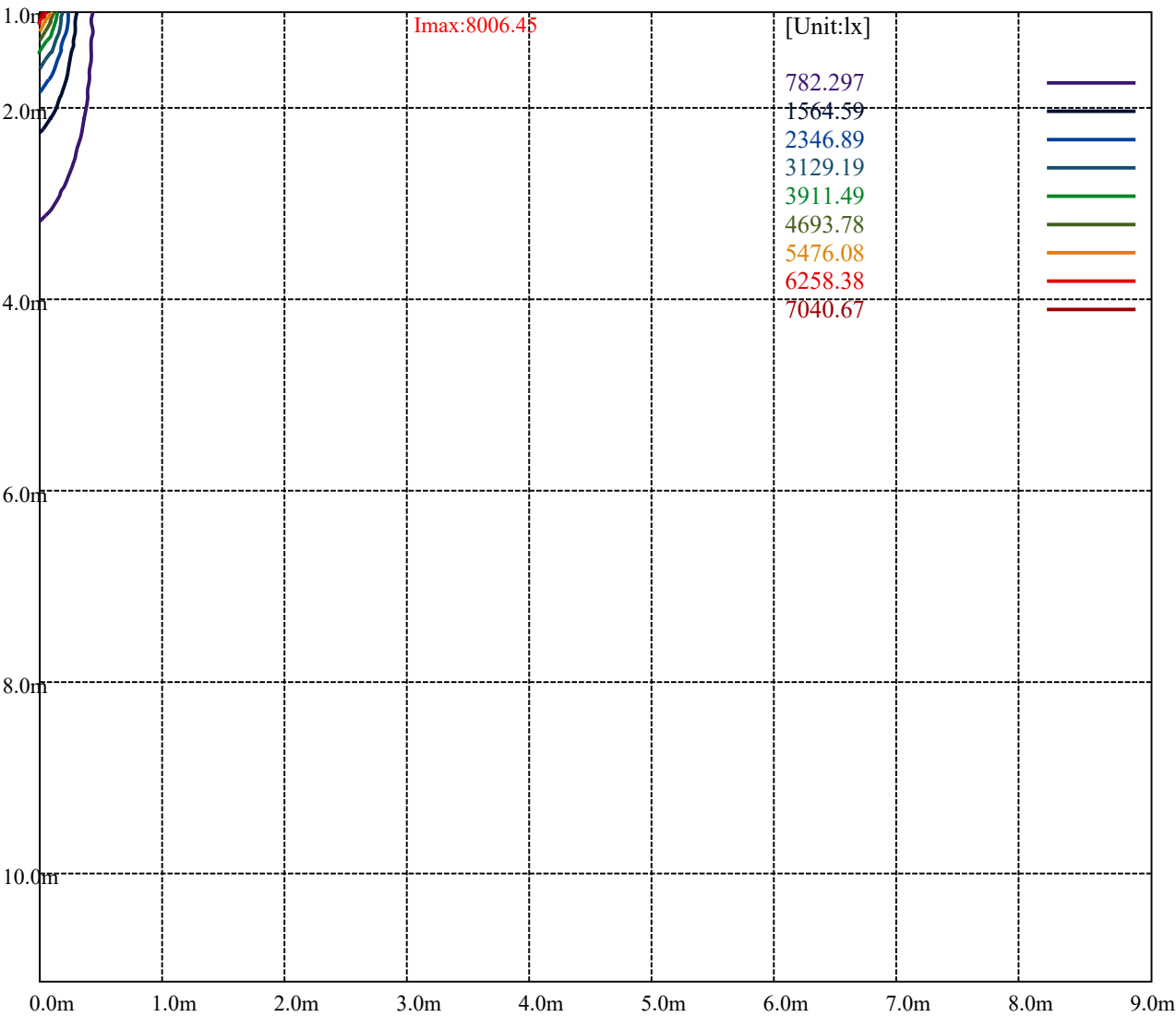
Road

Imax:8006.45

(10%Imax)	800.416	—
(20%Imax)	1600.83	—
(30%Imax)	2401.25	—
(40%Imax)	3201.66	—
(50%Imax)	4002.08	—
(60%Imax)	4802.5	—
(70%Imax)	5602.91	—
(80%Imax)	6403.33	—
(90%Imax)	7203.74	—



(10%Emax)	199.4373	
(20%Emax)	398.875	
(30%Emax)	598.3125	
(40%Emax)	797.75	
(50%Emax)	997.1875	
(60%Emax)	1196.623	
(70%Emax)	1396.06	
(80%Emax)	1595.498	
(90%Emax)	1794.935	



Luminance Table

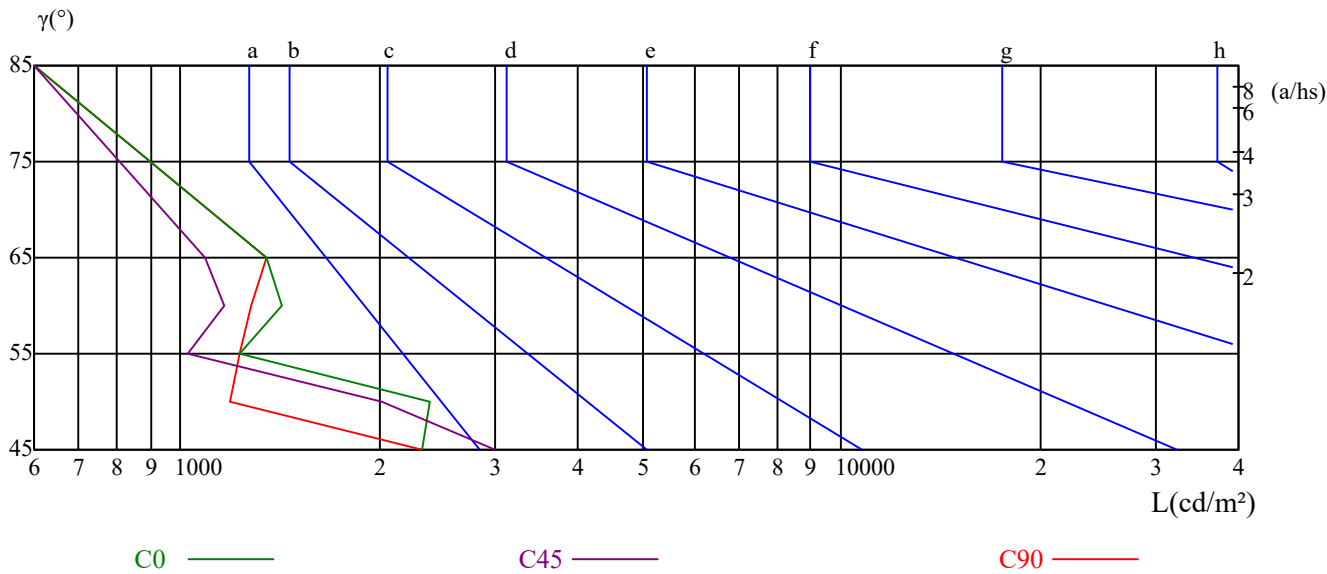
γ	45	50	55	60	65	70	75	80	85
C0	2323	2378	1228	1420	1345	0	0	0	224
C45	3001	2018	1026	1167	1086	0	0	0	164
C90	2323	1189	1228	1279	1345	0	0	0	224

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3177	3177	3177	0	0	0	924	924	462

Glare Table

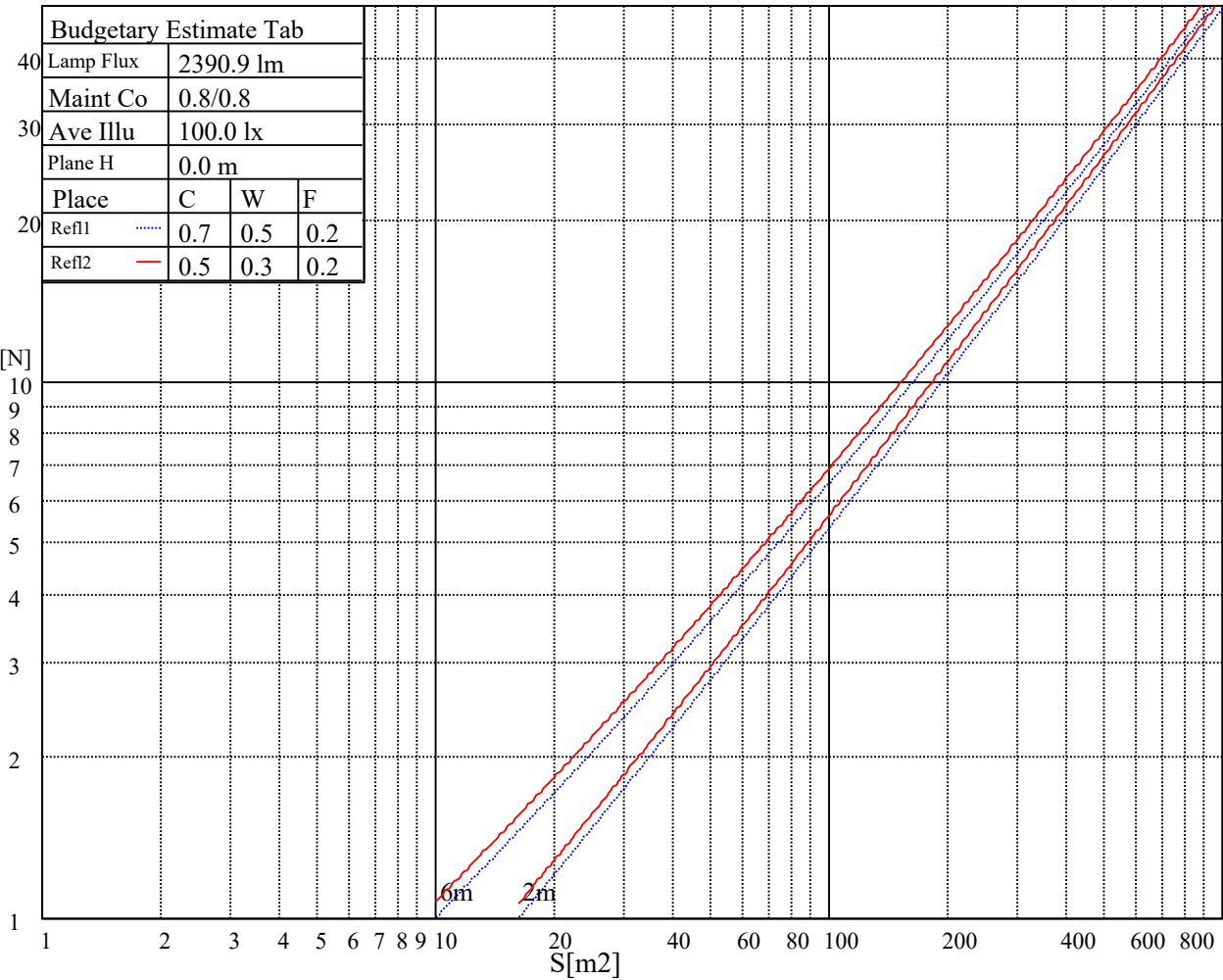
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

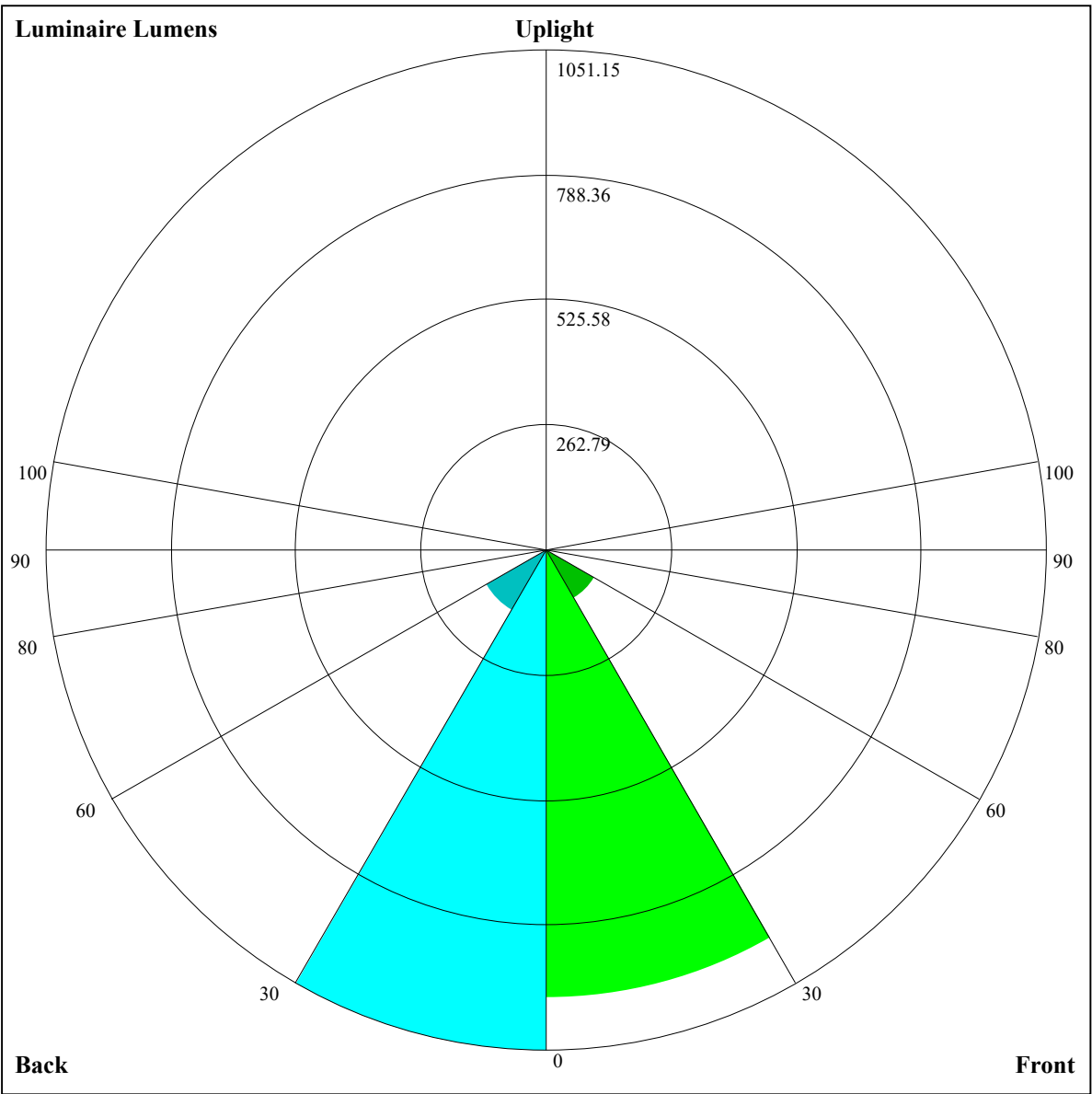


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	13.53	14.42	13.89	14.73	15.05	14.16	15.05	14.52	15.36	15.68
	3H	13.32	14.11	13.71	14.45	14.80	13.95	14.74	14.33	15.07	15.42
	4H	13.21	13.94	13.62	14.30	14.67	13.84	14.57	14.24	14.92	15.29
	6H	13.12	13.79	13.54	14.17	14.57	13.74	14.41	14.16	14.79	15.19
	8H	13.04	13.68	13.47	14.07	14.47	13.66	14.30	14.09	14.69	15.09
	12H	12.97	13.57	13.40	13.97	14.39	13.59	14.19	14.02	14.59	15.01
4H	2H	13.21	13.94	13.61	14.29	14.66	13.83	14.56	14.24	14.92	15.29
	3H	12.96	13.57	13.39	13.97	14.39	13.58	14.19	14.01	14.59	15.01
	4H	12.89	13.41	13.32	13.84	14.29	13.50	14.03	13.94	14.45	14.90
	6H	12.74	13.21	13.22	13.66	14.12	13.36	13.82	13.83	14.27	14.73
	8H	12.68	13.11	13.17	13.57	14.05	13.30	13.72	13.78	14.18	14.66
	12H	12.63	13.02	13.12	13.48	14.00	13.24	13.64	13.73	14.09	14.61
8H	4H	12.68	13.11	13.17	13.57	14.04	13.29	13.72	13.78	14.18	14.66
	6H	12.53	12.88	13.04	13.36	13.87	13.14	13.49	13.65	13.97	14.48
	8H	12.52	12.80	13.05	13.33	13.83	13.12	13.41	13.66	13.94	14.43
	12H	12.46	12.68	13.01	13.20	13.72	13.07	13.28	13.62	13.80	14.33
12H	4H	12.62	13.02	13.12	13.47	13.99	13.24	13.63	13.73	14.09	14.61
	6H	12.51	12.80	13.05	13.32	13.82	13.12	13.41	13.66	13.93	14.43
	8H	12.46	12.67	13.01	13.19	13.72	13.07	13.28	13.62	13.80	14.33
Variation with the observer position at spacings:											
S = 1.0H		6.3/-13.6					6.2/-12.1				
S = 1.5H		9.1/-13.6					9.0/-12.2				
S = 2.0H		11.1/-14.4					11.0/-13.4				
Standard tables:		BK0					BK0				
Uncorrected UGR		-5.0					-5.7				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.06	1.04	1.02	1.04	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.93	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.88	0.86
3	0.95	0.91	0.88	0.94	0.90	0.88	0.91	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.84	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.86	0.82	0.79	0.86	0.82	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.76	0.73	0.72
7	0.79	0.75	0.72	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.71	0.67	0.65	0.64
10	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62



Luminaire Lumens:

FL=940.62,FM=116.36,FH=2.61,FVH=0.39

BL=1051.15,BM=148.04,BH=2.71,BVH=0.39

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	7823.66	7568.94	7229.48	6838.87	6409.88	5965.98	5522.60	5086.16	4674.23
45.0	7975.54	7867.36	7648.34	7325.40	6950.24	6620.91	6190.86	5740.56	5301.98
90.0	7908.40	7751.19	7497.53	7161.80	6781.31	6365.12	5930.27	5484.77	5051.52
135.0	7963.82	7976.07	7897.20	7730.41	7475.15	7152.74	6773.85	6346.47	5897.23
180.0	7823.66	7962.22	8006.45	7954.76	7798.62	7661.13	7252.93	6909.21	6677.40
225.0	7975.54	8003.25	7920.65	7727.21	7460.23	7153.81	6799.96	6397.62	5970.24
270.0	7908.40	7968.61	7940.90	7813.54	7684.58	7403.74	6913.47	6675.80	6252.14
315.0	7963.82	7852.44	7626.49	7315.28	6951.84	6535.65	6093.87	5644.10	5204.46
360.0	7823.66	7568.94	7229.48	6838.87	6409.88	5965.98	5522.60	5086.16	4674.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4283.08	3912.18	3557.80	3227.94	2926.31	2650.80	2452.57	2186.65	2031.04
45.0	4876.19	4471.72	4090.17	3729.93	3383.54	3061.67	2771.77	2510.12	2275.11
90.0	4636.39	4245.24	3870.08	3517.30	3187.43	2883.15	2712.62	2363.57	2142.42
135.0	5622.25	4998.23	4578.30	4340.10	3955.88	3590.31	3248.72	2936.97	2657.20
180.0	6260.14	5815.16	5360.60	4916.70	4501.03	4102.42	3733.12	3378.21	3046.22
225.0	5526.33	5076.57	4649.18	4251.10	3868.48	3498.65	3151.73	2830.39	2536.76
270.0	5808.24	5357.40	4915.63	4498.37	4105.09	3734.72	3386.21	3061.14	2767.51
315.0	4780.81	4383.80	4081.64	3654.26	3385.14	3075.53	2787.76	2527.17	2293.76
360.0	4283.08	3912.18	3557.80	3227.94	2926.31	2650.80	2452.57	2186.65	2031.04

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1856.78	1704.37	1561.56	1442.19	1327.61	1230.63	1050.88	1039.79	1015.81
45.0	2067.28	1875.43	1710.24	1558.89	1426.20	1307.90	1204.51	1114.99	1067.56
90.0	2023.05	1840.26	1683.06	1541.84	1420.34	1313.23	1213.04	1039.10	1039.10
135.0	2406.20	2181.85	1984.15	1805.09	1651.62	1514.13	1392.63	1287.65	1194.92
180.0	2746.19	2477.08	2232.48	2013.99	1824.28	1656.41	1514.13	1389.43	1326.55
225.0	2372.63	2049.69	1921.26	1713.97	1543.97	1399.02	1270.59	1043.63	1043.63
270.0	2503.72	2264.45	2053.42	1863.18	1695.31	1549.83	1424.07	1314.29	1233.82
315.0	2088.59	1906.34	1745.41	1603.12	1475.76	1362.79	1263.13	1158.15	1061.38
360.0	1856.78	1704.37	1561.56	1442.19	1327.61	1230.63	1050.88	1039.79	1015.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	937.48	850.72	792.96	654.29	554.75	495.86	364.18	309.08	221.42
45.0	996.15	893.83	844.27	757.41	665.22	574.09	481.90	390.78	309.77
90.0	989.97	904.33	819.97	720.11	622.59	563.44	428.13	334.29	279.51
135.0	1117.12	1047.84	979.63	932.20	803.24	706.25	647.63	547.98	452.06
180.0	1190.66	1114.99	1071.82	1008.94	934.33	845.87	756.34	662.02	563.97
225.0	999.45	932.63	869.91	799.24	721.39	655.95	552.46	462.93	397.76
270.0	1132.57	1079.82	1015.87	931.67	864.52	772.33	675.88	576.76	479.24
315.0	1034.63	991.41	907.21	812.35	714.35	614.75	514.09	415.66	323.04
360.0	937.48	850.72	792.96	654.29	554.75	495.86	364.18	309.08	221.42

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	146.60	86.28	43.27	27.44	24.30	21.64	18.97	16.36	14.18
45.0	275.14	202.34	107.33	52.54	31.39	27.92	23.87	21.10	18.01
90.0	197.65	126.78	69.60	33.20	23.39	20.14	16.79	13.96	12.10
135.0	357.20	284.73	284.73	104.71	53.08	26.06	20.25	17.21	14.34
180.0	470.18	379.58	290.59	290.59	122.73	69.06	34.64	24.30	22.33
225.0	314.25	235.91	164.51	107.27	61.23	35.38	28.83	25.21	21.96
270.0	385.45	295.92	295.92	139.25	102.32	41.46	26.06	23.50	18.86
315.0	237.03	159.92	96.19	48.44	26.75	21.96	19.18	16.73	14.60
360.0	146.60	86.28	43.27	27.44	24.30	21.64	18.97	16.36	14.18

Intensity data(cd)

Appendix Page: 18 Total:19

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	12.36	11.14	10.34	9.81	9.33	8.90	8.53	8.26	7.99
45.0	15.72	13.43	11.62	10.23	9.33	8.63	8.05	7.57	7.30
90.0	10.34	8.79	7.89	7.35	6.93	6.50	6.18	5.92	5.70
135.0	13.00	10.60	9.33	8.58	7.30	6.98	6.55	6.29	5.97
180.0	18.07	16.31	14.02	11.94	10.34	8.95	7.89	7.35	7.03
225.0	19.18	16.36	13.86	11.83	10.13	8.90	7.94	7.30	6.77
270.0	17.16	14.87	12.74	10.87	9.38	8.15	7.57	7.09	6.77
315.0	12.63	10.92	9.65	8.69	8.21	7.78	7.41	7.09	6.77
360.0	12.36	11.14	10.34	9.81	9.33	8.90	8.53	8.26	7.99
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.67	7.41	7.19	6.93	6.71	6.29	5.92	5.44	5.01
45.0	7.09	6.98	6.82	6.55	6.39	6.23	5.92	5.49	5.33
90.0	5.60	5.33	5.22	5.06	4.96	4.85	4.64	4.42	4.16
135.0	5.70	5.54	5.38	5.12	5.01	4.85	4.69	4.53	4.48
180.0	6.61	6.34	6.13	5.97	5.86	5.76	5.76	5.76	5.60
225.0	6.45	6.18	6.13	5.92	5.92	5.86	5.65	5.54	5.17
270.0	6.55	6.45	6.29	6.13	6.02	5.92	5.76	5.49	5.17
315.0	6.45	6.29	6.08	5.81	5.54	5.38	5.17	4.90	4.69
360.0	7.67	7.41	7.19	6.93	6.71	6.29	5.92	5.44	5.01
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.42	3.84	3.36	2.93	2.45	2.08	1.92	1.76	1.60
45.0	4.74	4.16	3.94	3.36	3.04	2.82	2.61	2.45	2.40
90.0	3.89	3.57	3.09	2.61	2.29	1.97	1.65	1.44	1.39
135.0	4.37	4.26	4.05	3.89	3.68	3.36	3.14	2.82	2.56
180.0	5.54	5.28	5.12	4.48	4.21	3.73	2.93	2.61	2.13
225.0	4.96	4.53	4.10	3.57	3.20	2.72	2.29	2.08	1.81
270.0	4.90	4.64	4.21	3.78	3.41	2.98	2.56	2.13	1.81
315.0	4.53	4.26	3.94	3.57	3.25	3.04	2.56	2.29	2.18
360.0	4.42	3.84	3.36	2.93	2.45	2.08	1.92	1.76	1.60
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.55	1.44	1.33	1.17	1.12	1.07	1.01	1.01	0.96
45.0	2.40	2.34	2.18	2.13	2.03	1.97	1.81	1.71	1.60
90.0	1.28	1.17	1.07	1.01	0.96	0.91	0.85	0.80	0.75
135.0	2.34	2.13	1.92	1.76	1.71	1.60	1.44	1.39	1.33
180.0	1.81	1.49	1.39	1.23	1.17	1.12	1.07	0.96	0.91
225.0	1.71	1.65	1.55	1.49	1.39	1.33	1.23	1.17	1.07
270.0	1.55	1.44	1.33	1.23	1.12	1.07	1.01	0.96	0.85
315.0	1.97	1.87	1.71	1.60	1.49	1.39	1.33	1.33	1.28
360.0	1.55	1.44	1.33	1.17	1.12	1.07	1.01	1.01	0.96
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.85	0.80	0.75	0.69	0.64	0.59	0.53	0.48	0.43
45.0	1.33	1.12	0.91	0.80	0.64	0.59	0.59	0.53	0.48
90.0	0.75	0.64	0.69	0.64	0.64	0.59	0.59	0.53	0.48
135.0	1.23	1.17	1.07	1.01	0.91	0.85	0.80	0.69	0.64
180.0	0.85	0.80	0.75	0.69	0.69	0.64	0.59	0.59	0.53
225.0	1.01	0.96	0.85	0.80	0.69	0.59	0.53	0.48	0.43
270.0	0.80	0.80	0.69	0.69	0.64	0.59	0.53	0.53	0.48
315.0	1.23	1.12	0.96	0.85	0.85	0.85	0.80	0.75	0.69
360.0	0.85	0.80	0.75	0.69	0.64	0.59	0.53	0.48	0.43

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.43
45.0	0.48
90.0	0.48
135.0	0.64
180.0	0.48
225.0	0.37
270.0	0.43
315.0	0.48
360.0	0.43