



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

NT

Client: NT

LumCAT: 2-2886-L

Luminaire: 90.70.412.00 LED HOLDER

Report No: 20250321-B008

Ballast type: AC

Test No: 20250321-C008

Voltage(V): 35.730

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

Lamp flux(lm): 2390.9 Power (W): 21.400

Number of Lamps: 1 PF: 0.000

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

Phm Type: C Height(mm): 40

Photometric Results

Lumens(lm): 2253.09, Efficiency(%): 94.24% , Luminous Efficacy(lm/W): 105.28

Central intensity(cd): 3492.253, Maximum intensity(cd): 3500.247

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=50.6

[C90/270]Total=50.3

Field angle(10%Imax): [C0/180]Total=72.0

[C90/270]Total=72.2

Maximum s/h(1/2): C0_180=0.85 C90_270=0.77

Maximum s/h(1/4): C0_180=0.84 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.21%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.680%

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	3494.918	0.000	0	0.00%	0.00%
1.0	3489.189	3.342	3.342	0.14%	0.15%
2.0	3474.335	9.995	13.336	0.42%	0.59%
3.0	3454.484	16.571	29.908	0.69%	1.33%
4.0	3430.237	23.045	52.953	0.96%	2.35%
5.0	3400.328	29.385	82.338	1.23%	3.65%
6.0	3357.297	35.513	117.851	1.49%	5.23%
7.0	3308.536	41.375	159.226	1.73%	7.07%
8.0	3264.372	47.041	206.267	1.97%	9.15%
9.0	3204.621	52.428	258.695	2.19%	11.48%
10.0	3153.462	57.538	316.233	2.41%	14.04%
11.0	3103.303	62.518	378.751	2.61%	16.81%
12.0	3042.286	67.180	445.931	2.81%	19.79%
13.0	2985.799	71.538	517.469	2.99%	22.97%
14.0	2925.781	75.668	593.137	3.16%	26.33%
15.0	2856.171	79.377	672.514	3.32%	29.85%
16.0	2768.509	82.417	754.931	3.45%	33.51%
17.0	2693.103	85.052	839.983	3.56%	37.28%
18.0	2595.649	87.200	927.183	3.65%	41.15%
19.0	2488.736	88.458	1015.641	3.70%	45.08%
20.0	2372.631	88.977	1104.618	3.72%	49.03%
21.0	2249.997	88.764	1193.382	3.71%	52.97%
22.0	2124.632	87.910	1281.292	3.68%	56.87%
23.0	1996.470	86.472	1367.763	3.62%	60.71%
24.0	1872.304	84.585	1452.349	3.54%	64.46%
25.0	1752.069	82.410	1534.759	3.45%	68.12%
26.0	1646.088	80.214	1614.973	3.35%	71.68%
27.0	1533.047	77.778	1692.751	3.25%	75.13%
28.0	1395.652	74.148	1766.9	3.10%	78.42%
29.0	1262.080	69.534	1836.433	2.91%	81.51%
30.0	1138.135	64.805	1901.239	2.71%	84.38%
31.0	1033.413	60.431	1961.67	2.53%	87.07%
32.0	893.014	55.190	2016.86	2.31%	89.52%
33.0	747.019	48.316	2065.176	2.02%	91.66%
34.0	611.749	41.120	2106.296	1.72%	93.48%
35.0	471.490	33.641	2139.937	1.41%	94.98%
36.0	358.595	26.430	2166.367	1.11%	96.15%
37.0	267.349	20.415	2186.782	0.85%	97.06%

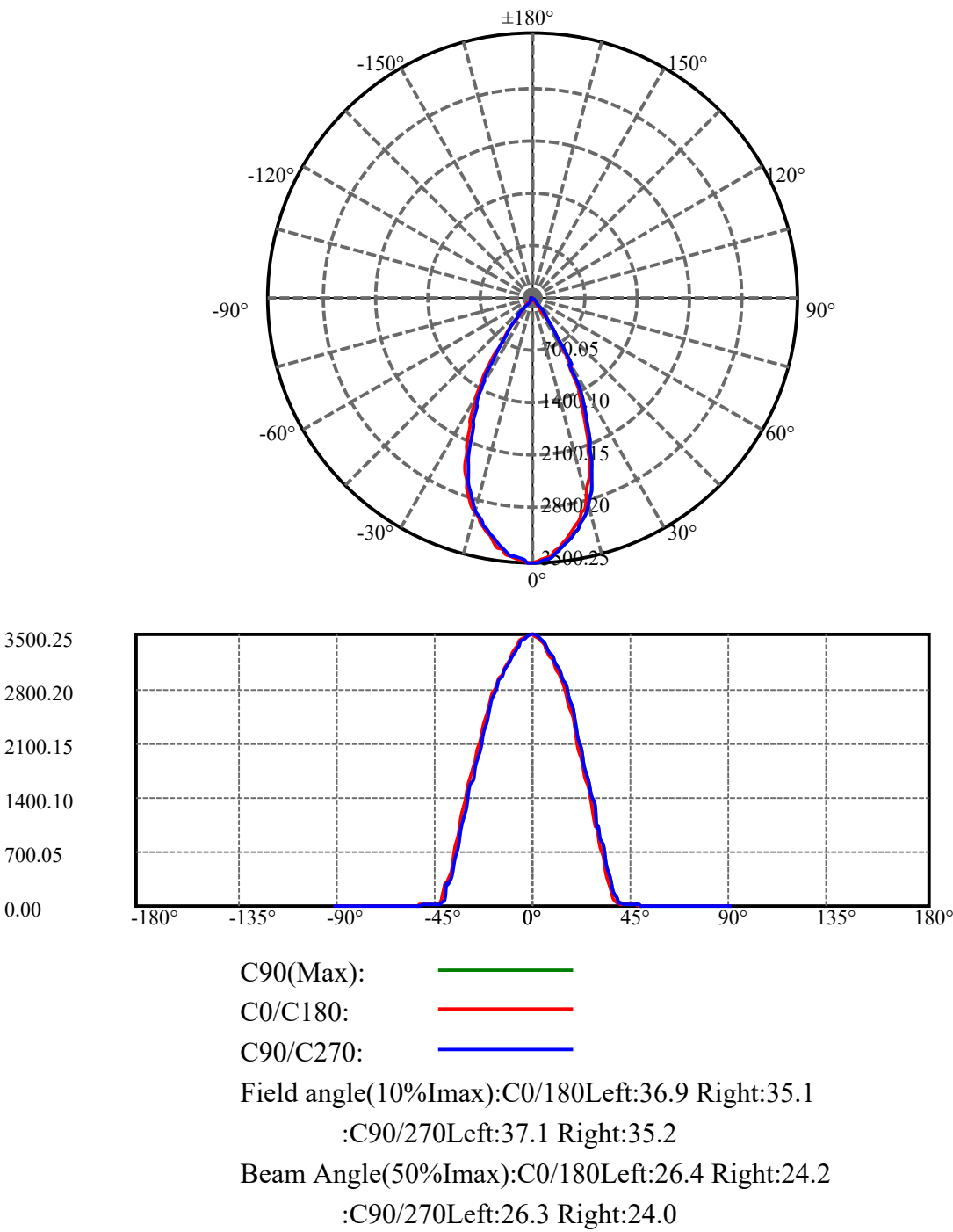
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	181.259	14.974	2201.756	0.63%	97.72%
39.0	136.016	10.829	2212.586	0.45%	98.20%
40.0	80.301	7.544	2220.13	0.32%	98.54%
41.0	42.419	4.370	2224.5	0.18%	98.73%
42.0	29.889	2.627	2227.127	0.11%	98.85%
43.0	25.113	2.037	2229.165	0.09%	98.94%
44.0	21.522	1.760	2230.925	0.07%	99.02%
45.0	18.725	1.547	2232.471	0.06%	99.08%
46.0	16.573	1.380	2233.852	0.06%	99.15%
47.0	14.875	1.251	2235.103	0.05%	99.20%
48.0	13.382	1.142	2236.245	0.05%	99.25%
49.0	12.103	1.047	2237.291	0.04%	99.30%
50.0	11.011	0.964	2238.255	0.04%	99.34%
51.0	10.098	0.893	2239.148	0.04%	99.38%
52.0	9.346	0.834	2239.983	0.03%	99.42%
53.0	8.726	0.786	2240.769	0.03%	99.45%
54.0	8.100	0.742	2241.51	0.03%	99.49%
55.0	7.501	0.696	2242.207	0.03%	99.52%
56.0	7.068	0.658	2242.865	0.03%	99.55%
57.0	6.595	0.625	2243.49	0.03%	99.57%
58.0	6.195	0.591	2244.081	0.02%	99.60%
59.0	5.849	0.563	2244.644	0.02%	99.63%
60.0	5.522	0.537	2245.181	0.02%	99.65%
61.0	5.222	0.513	2245.694	0.02%	99.67%
62.0	4.936	0.489	2246.184	0.02%	99.69%
63.0	4.696	0.468	2246.652	0.02%	99.71%
64.0	4.450	0.449	2247.101	0.02%	99.73%
65.0	4.203	0.428	2247.529	0.02%	99.75%
66.0	4.010	0.410	2247.939	0.02%	99.77%
67.0	3.830	0.394	2248.333	0.02%	99.79%
68.0	3.637	0.378	2248.711	0.02%	99.81%
69.0	3.451	0.362	2249.073	0.02%	99.82%
70.0	3.304	0.347	2249.42	0.01%	99.84%
71.0	3.097	0.331	2249.751	0.01%	99.85%
72.0	2.951	0.314	2250.065	0.01%	99.87%
73.0	2.784	0.300	2250.365	0.01%	99.88%
74.0	2.645	0.285	2250.651	0.01%	99.89%
75.0	2.471	0.270	2250.921	0.01%	99.90%

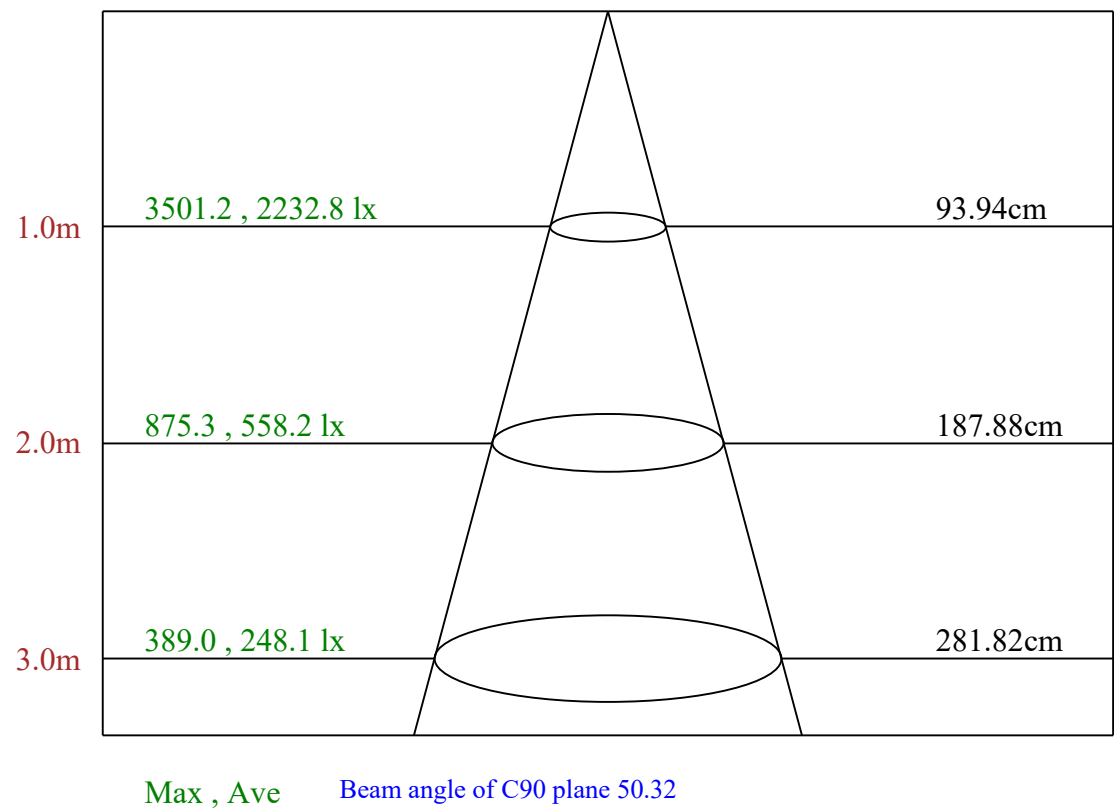
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.291	0.253	2251.174	0.01%	99.91%
77.0	2.165	0.238	2251.411	0.01%	99.93%
78.0	1.992	0.223	2251.634	0.01%	99.94%
79.0	1.832	0.205	2251.839	0.01%	99.94%
80.0	1.692	0.190	2252.029	0.01%	99.95%
81.0	1.525	0.174	2252.203	0.01%	99.96%
82.0	1.379	0.157	2252.361	0.01%	99.97%
83.0	1.226	0.142	2252.502	0.01%	99.97%
84.0	1.072	0.125	2252.628	0.01%	99.98%
85.0	0.926	0.109	2252.737	0.00%	99.98%
86.0	0.806	0.095	2252.831	0.00%	99.99%
87.0	0.686	0.082	2252.913	0.00%	99.99%
88.0	0.580	0.069	2252.982	0.00%	100.00%
89.0	0.480	0.058	2253.04	0.00%	100.00%
90.0	0.413	0.049	2253.089	0.00%	100.00%

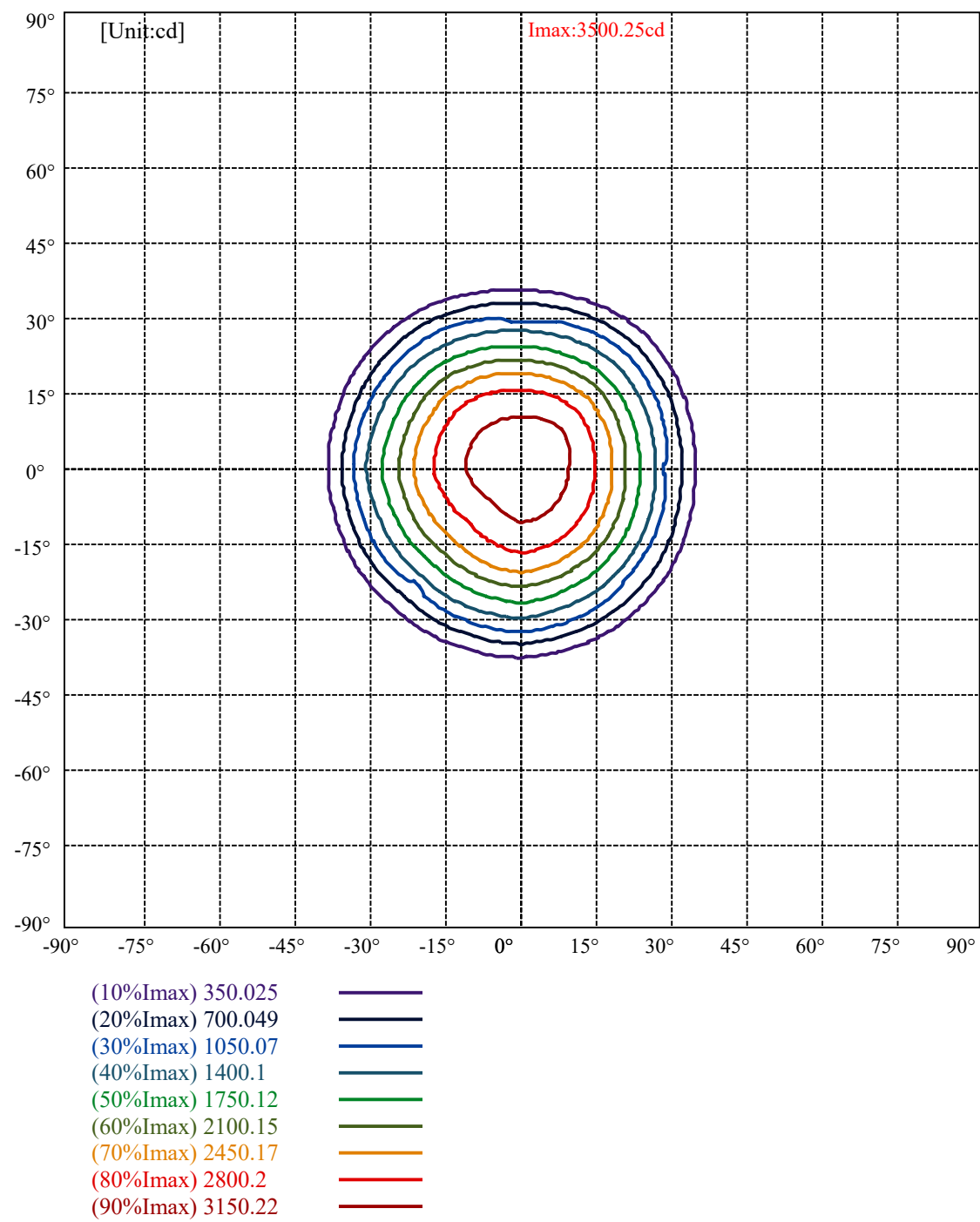
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1901.24	79.52%	84.38%
0-40	2220.13	92.86%	98.54%
0-60	2245.18	93.91%	99.65%
0-90	2253.04	94.23%	100.00%
0-120	2253.04	94.23%	100.00%
0-180	2253.09	94.24%	100.00%
60-90	7.86	0.33%	0.35%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.51	1802.47	75.39%	80.00%

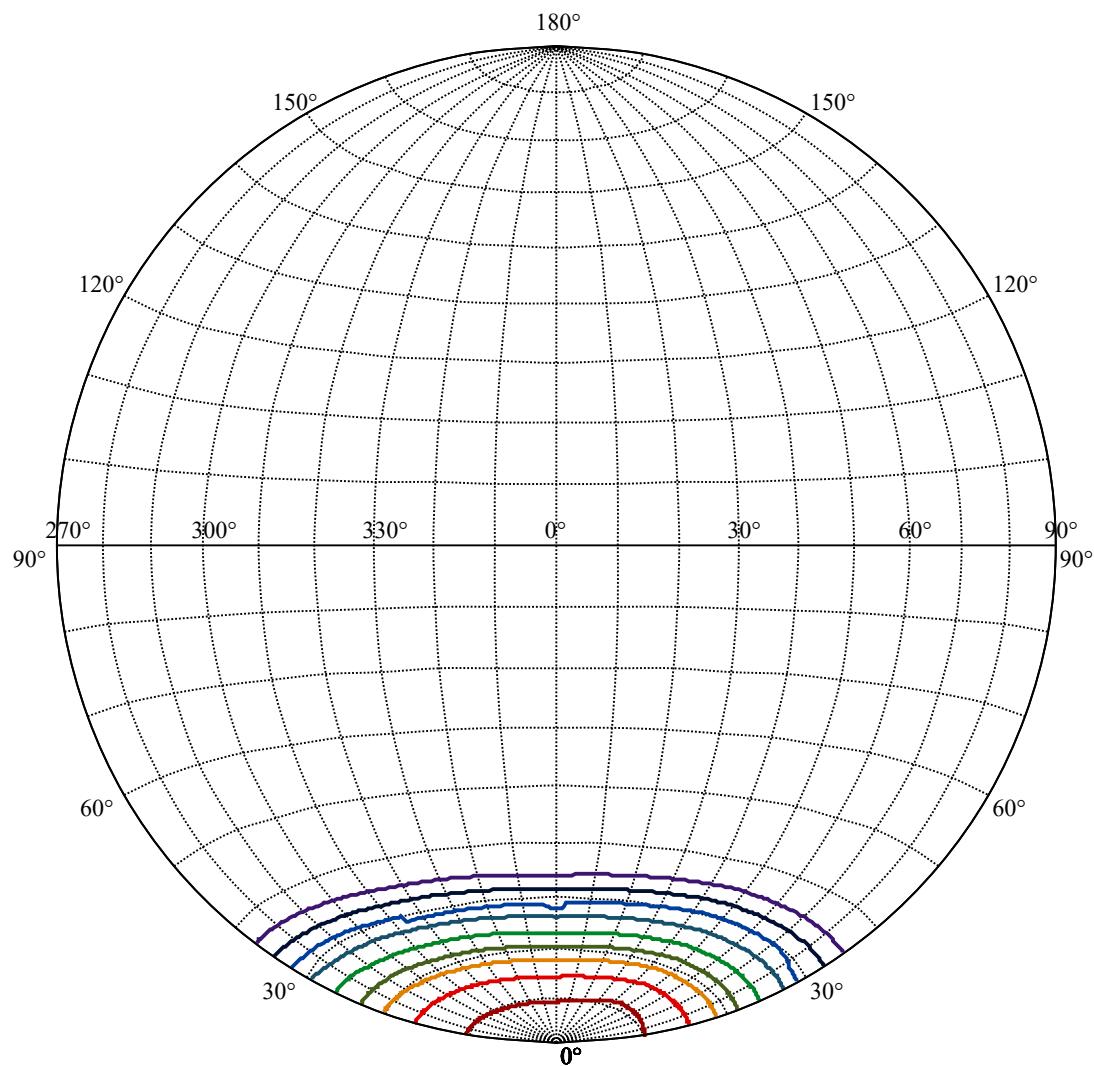
ZONAL LUMEN SUMMARY

0-10	316.23
10-20	788.38
20-30	796.62
30-40	318.89
40-50	18.13
50-60	6.93
60-70	4.24
70-80	2.61
80-90	1.01
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







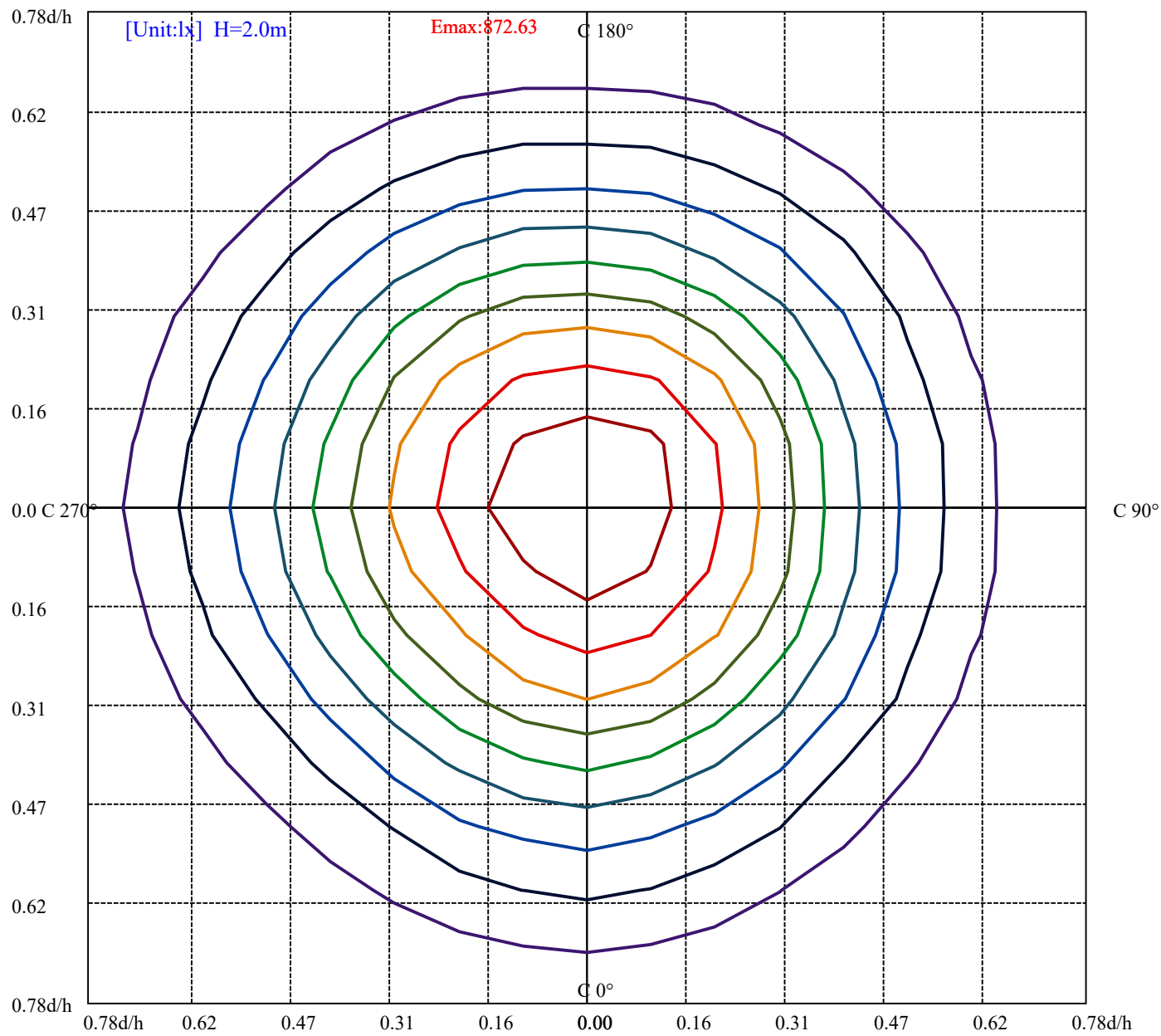


House

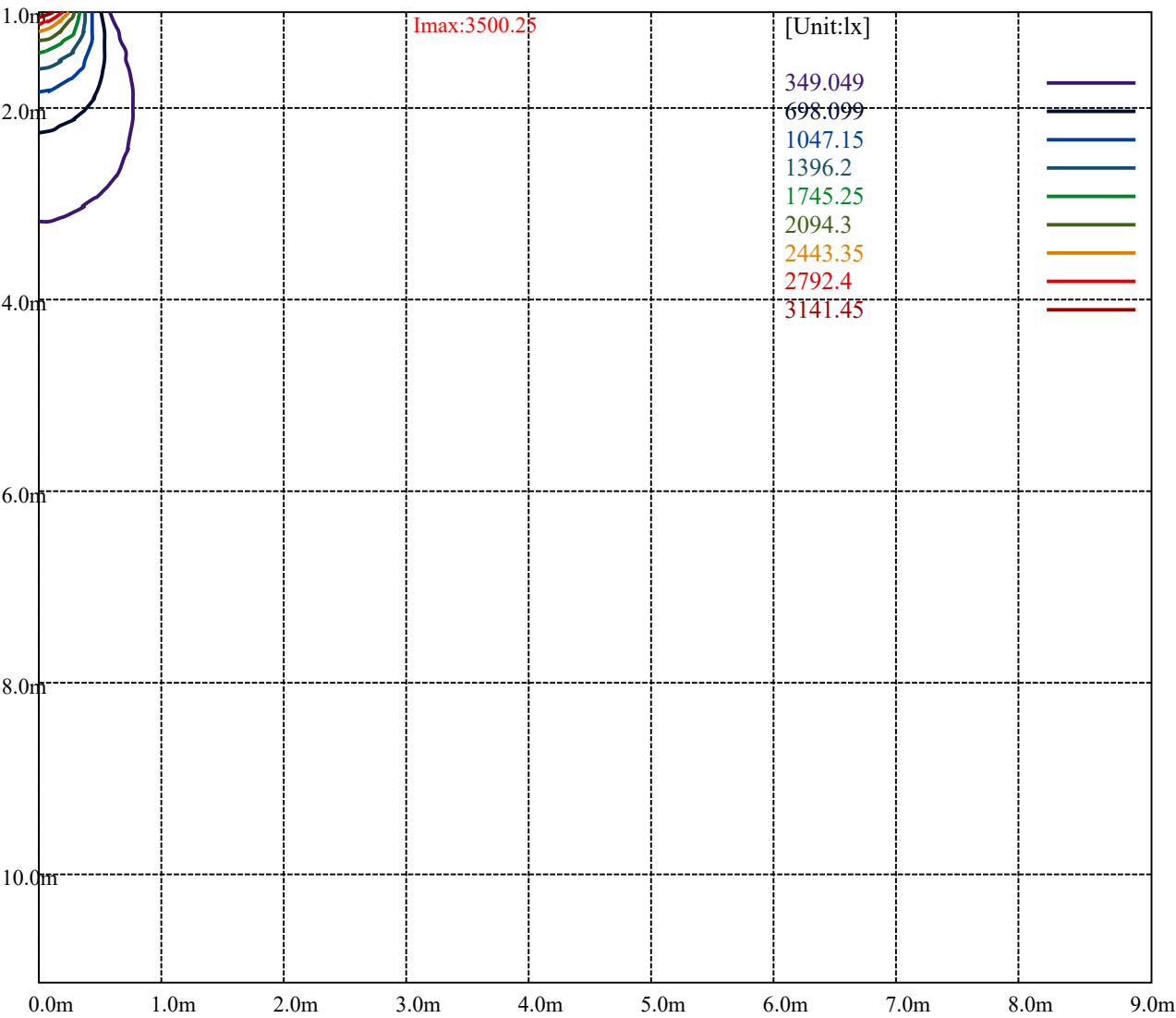
[Unit:cd]

Road

	Imax:3500.25	
(10%Imax)	350.115	—
(20%Imax)	700.231	—
(30%Imax)	1050.35	—
(40%Imax)	1400.46	—
(50%Imax)	1750.58	—
(60%Imax)	2100.69	—
(70%Imax)	2450.81	—
(80%Imax)	2800.92	—
(90%Imax)	3151.04	—



(10%Emax)	87.2625	
(20%Emax)	174.5247	
(30%Emax)	261.7875	
(40%Emax)	349.05	
(50%Emax)	436.3125	
(60%Emax)	523.575	
(70%Emax)	610.8375	
(80%Emax)	698.1	
(90%Emax)	785.3625	



Luminance Table

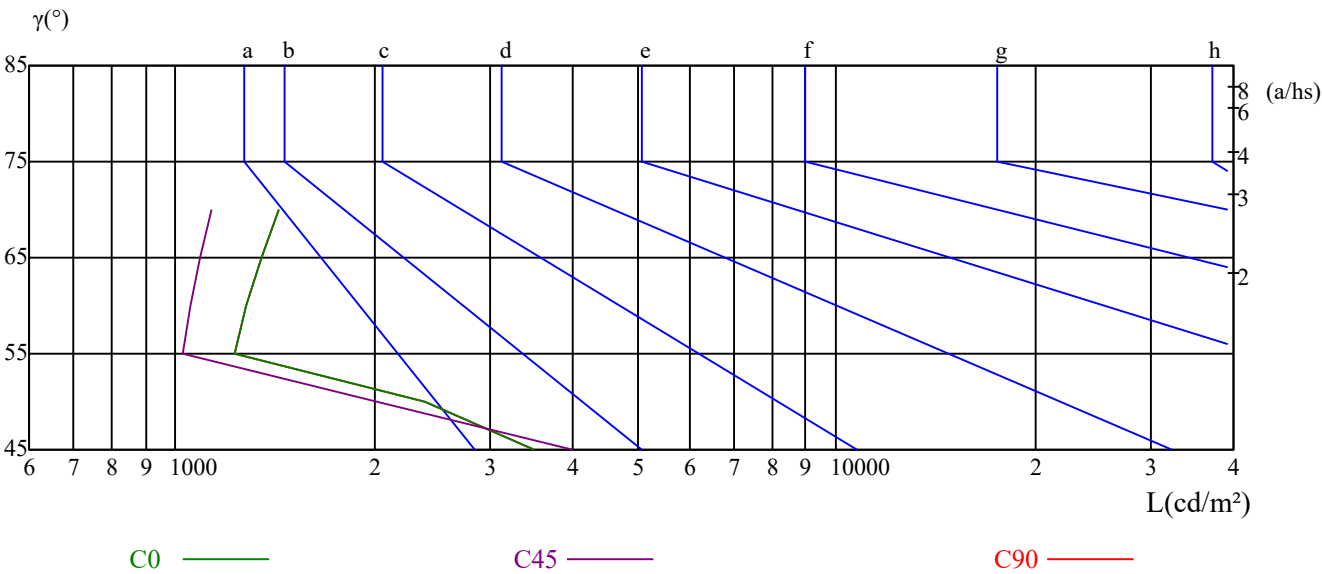
γ	45	50	55	60	65	70	75	80	85
C0	3484	2378	1228	1279	1345	1430	0	0	0
C45	4002	2018	1026	1051	1086	1132	0	0	0
C90	3484	2378	1228	1279	1345	1430	0	0	0

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	2594	0	2594	0	0	0

Glare Table

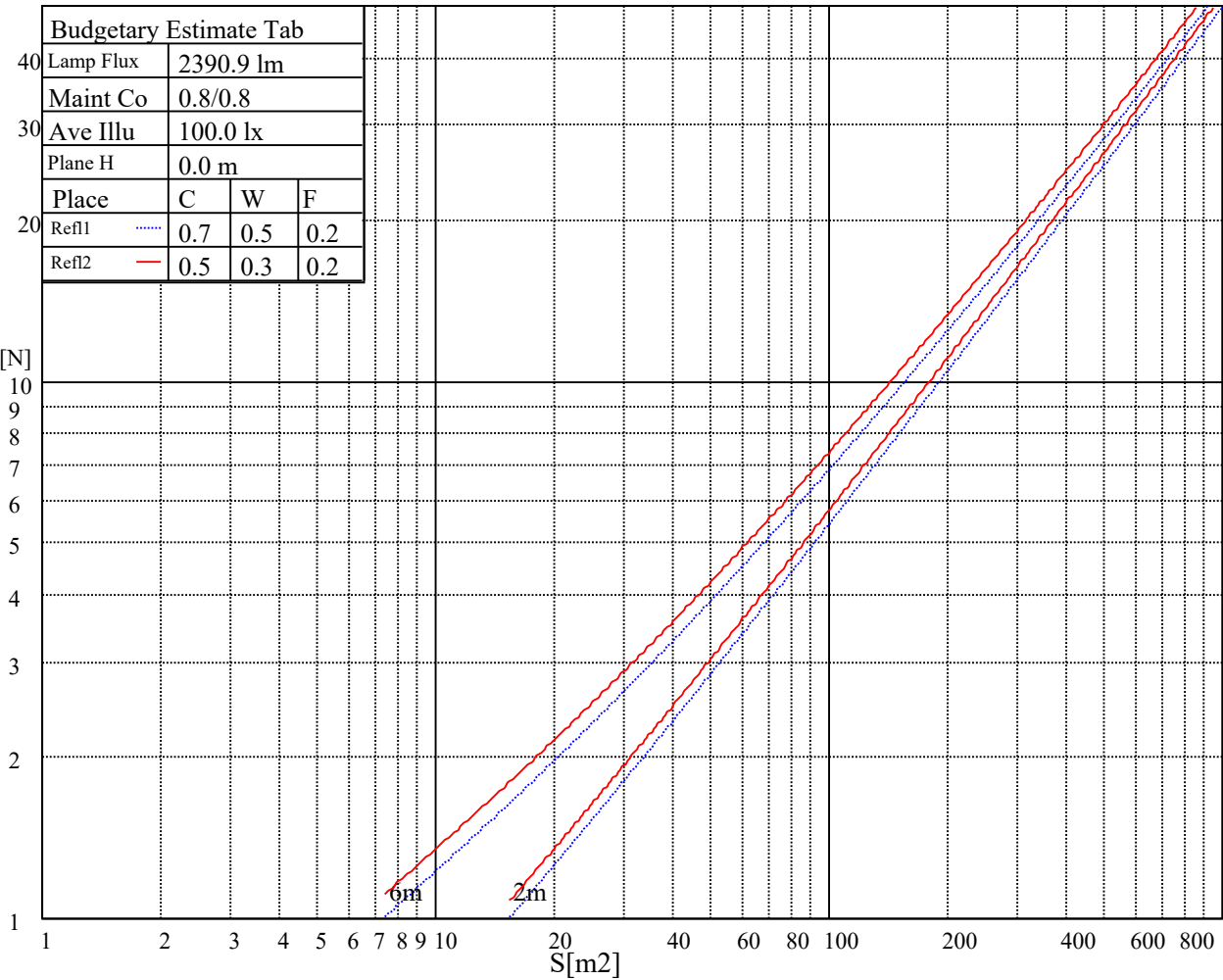
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

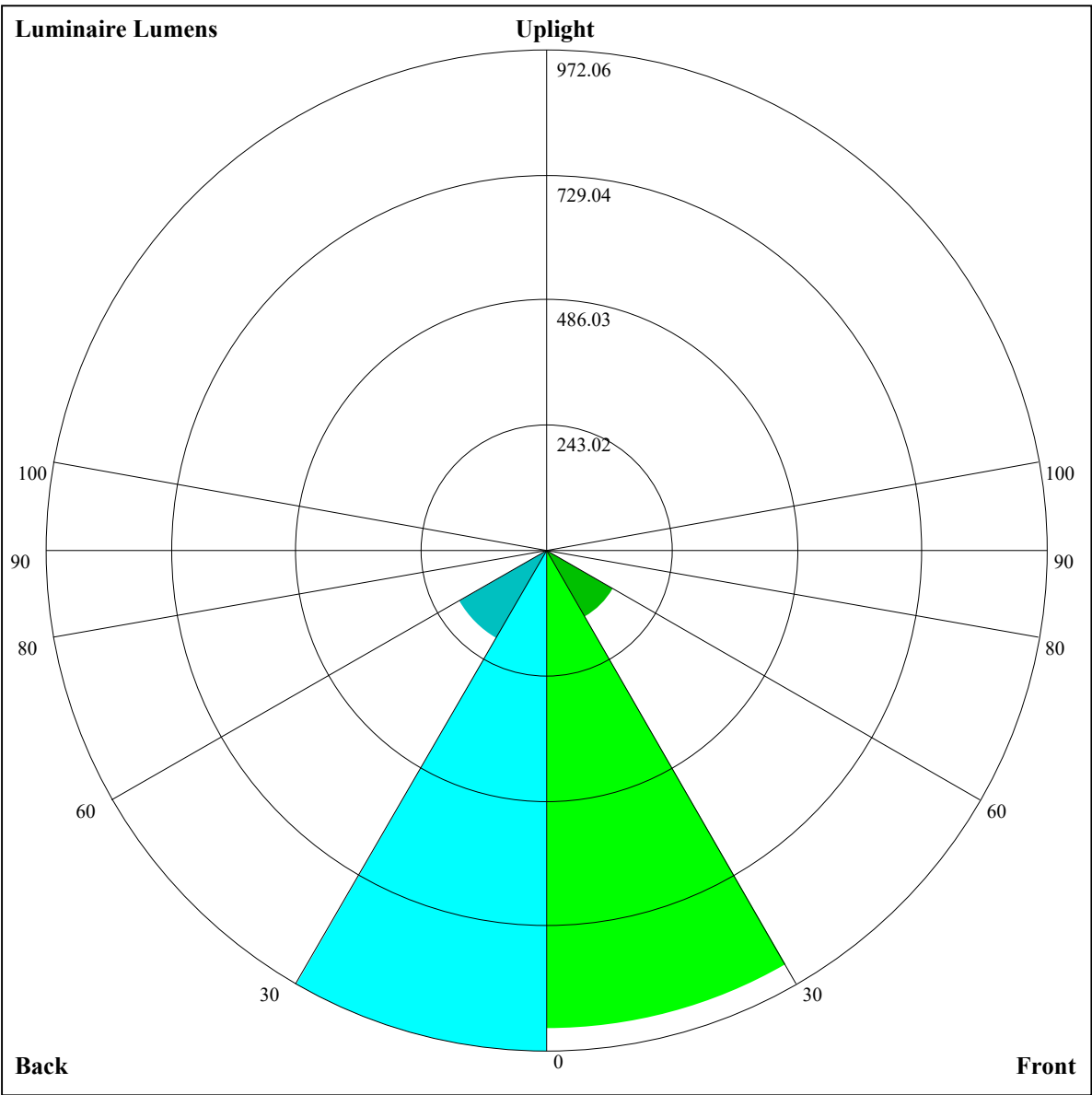


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.16	16.05	15.52	16.37	16.68	16.25	17.15	16.61	17.46	17.77
	3H	14.95	15.75	15.34	16.08	16.43	16.04	16.84	16.43	17.17	17.52
	4H	14.85	15.58	15.25	15.94	16.31	15.93	16.67	16.34	17.02	17.39
	6H	14.76	15.43	15.18	15.80	16.20	15.84	16.51	16.26	16.89	17.29
	8H	14.68	15.32	15.10	15.70	16.11	15.77	16.40	16.19	16.79	17.20
	12H	14.61	15.21	15.03	15.61	16.02	15.69	16.29	16.12	16.69	17.11
4H	2H	14.83	15.57	15.24	15.92	16.29	15.92	16.66	16.32	17.01	17.38
	3H	14.59	15.21	15.02	15.60	16.02	15.68	16.29	16.10	16.69	17.11
	4H	14.52	15.05	14.96	15.47	15.92	15.60	16.13	16.04	16.55	17.00
	6H	14.38	14.84	14.85	15.30	15.75	15.46	15.92	15.93	16.38	16.83
	8H	14.32	14.75	14.80	15.21	15.68	15.40	15.83	15.88	16.29	16.76
	12H	14.26	14.66	14.75	15.11	15.63	15.34	15.74	15.83	16.19	16.71
8H	4H	14.31	14.74	14.80	15.20	15.68	15.39	15.82	15.88	16.28	16.75
	6H	14.16	14.51	14.67	14.99	15.50	15.24	15.58	15.74	16.07	16.58
	8H	14.14	14.43	14.68	14.96	15.46	15.22	15.51	15.76	16.03	16.53
	12H	14.09	14.31	14.64	14.82	15.35	15.17	15.38	15.71	15.90	16.43
12H	4H	14.25	14.65	14.75	15.10	15.63	15.33	15.73	15.82	16.18	16.71
	6H	14.14	14.43	14.68	14.95	15.45	15.22	15.51	15.75	16.03	16.53
	8H	14.09	14.30	14.63	14.82	15.35	15.16	15.38	15.71	15.90	16.42
Variation with the observer position at spacings:											
S = 1.0H		6.6/-14.1					6.5/-13.2				
S = 1.5H		9.4/-14.1					9.3/-13.3				
S = 2.0H		11.4/-14.1					11.3/-13.3				
Standard tables:		BK0					BK0				
Uncorrected UGR		-2.9					-4.0				

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	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.89
2	0.99	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.86	0.84
3	0.93	0.89	0.85	0.92	0.88	0.85	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
4	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.73	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
7	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.63
8	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.62	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.65	0.61	0.58	0.57
10	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



Luminaire Lumens:

FL=928.17,FM=149.67,FH=3.24,FVH=0.48

BL=972.06,BM=196.38,BH=3.57,BVH=0.58

UL=0,UH=0

BUG Rating:B2-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	3492.25	3484.26	3462.41	3437.90	3409.12	3363.82	3311.60	3265.24	3218.34
45.0	3491.72	3498.65	3493.32	3474.13	3453.35	3441.10	3408.06	3339.84	3322.79
90.0	3500.25	3497.58	3485.86	3464.01	3431.50	3393.67	3349.97	3305.74	3263.64
135.0	3495.45	3492.25	3481.06	3467.74	3446.96	3420.31	3380.88	3338.78	3290.28
180.0	3492.25	3496.52	3473.60	3463.48	3452.29	3429.37	3406.46	3355.30	3322.79
225.0	3491.72	3464.01	3458.15	3432.57	3413.92	3371.29	3325.46	3264.71	3192.23
270.0	3500.25	3493.32	3468.27	3446.96	3427.77	3416.05	3352.63	3323.86	3283.36
315.0	3495.45	3486.92	3472.00	3449.09	3406.99	3367.02	3323.32	3274.83	3221.54
360.0	3492.25	3484.26	3462.41	3437.90	3409.12	3363.82	3311.60	3265.24	3218.34

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3165.59	3100.04	3049.95	2985.47	2908.20	2863.96	2727.54	2612.44	2545.82
45.0	3265.77	3218.34	3168.25	3094.71	3038.76	2960.95	2879.95	2789.36	2691.84
90.0	3211.42	3155.99	3109.10	3051.55	2987.06	2915.12	2849.04	2733.40	2648.67
135.0	3236.99	3189.03	3147.47	3109.63	3055.28	2992.93	2949.23	2885.28	2809.61
180.0	3262.57	3192.76	3147.47	3090.98	3034.49	2983.33	2931.64	2876.22	2814.40
225.0	3114.96	3055.81	2992.93	2932.71	2878.35	2821.33	2781.36	2674.25	2628.96
270.0	3208.75	3175.18	3121.36	3066.47	3015.31	2967.35	2904.46	2834.12	2760.58
315.0	3170.91	3140.54	3089.91	3006.78	2968.95	2901.27	2826.13	2743.00	2644.94
360.0	3165.59	3100.04	3049.95	2985.47	2908.20	2863.96	2727.54	2612.44	2545.82

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2430.72	2298.56	2161.60	2028.91	1898.35	1776.85	1657.48	1540.77	1435.79
45.0	2576.73	2452.57	2327.87	2194.64	2051.29	1911.67	1782.71	1662.81	1571.15
90.0	2534.10	2415.80	2278.84	2142.42	2013.99	1879.70	1752.34	1632.97	1524.79
135.0	2717.95	2616.17	2505.32	2382.22	2261.25	2131.76	1998.53	1869.04	1744.87
180.0	2741.40	2662.53	2568.74	2469.62	2358.78	2238.87	2121.10	2001.20	1877.03
225.0	2545.29	2453.63	2350.25	2238.87	2124.30	2006.00	1886.09	1773.65	1660.14
270.0	2677.98	2586.32	2486.67	2372.63	2250.06	2116.84	1990.54	1861.58	1790.17
315.0	2541.03	2424.32	2301.75	2170.66	2039.04	1910.07	1789.64	1674.53	1564.75
360.0	2430.72	2298.56	2161.60	2028.91	1898.35	1776.85	1657.48	1540.77	1435.79

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1314.82	1040.06	1040.06	887.49	768.39	624.99	488.99	361.41	248.01
45.0	1459.77	1323.88	1224.23	1091.54	947.12	802.17	658.29	520.80	395.04
90.0	1419.81	1298.30	1016.03	1016.03	864.20	773.98	629.94	492.45	365.20
135.0	1625.50	1514.13	1399.02	1267.40	1178.93	967.37	875.71	722.24	523.47
180.0	1805.63	1645.76	1580.21	1471.50	1345.73	1205.05	1057.97	904.49	750.48
225.0	1549.30	1441.12	1322.82	1031.64	1031.64	942.06	732.26	645.71	509.93
270.0	1634.56	1571.15	1467.23	1292.44	1204.51	1052.10	902.89	755.81	612.46
315.0	1454.98	1330.81	1047.04	1047.04	926.77	776.38	630.10	491.07	367.33
360.0	1314.82	1040.06	1040.06	887.49	768.39	624.99	488.99	361.41	248.01

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.59	92.09	47.80	32.77	27.92	23.71	20.20	17.69	15.77
45.0	282.60	282.60	119.05	68.69	40.98	36.34	29.68	27.23	23.61
90.0	257.23	168.66	100.24	53.45	33.63	28.67	24.62	20.84	17.75
135.0	444.07	325.76	283.66	194.93	79.56	41.99	29.42	25.26	21.74
180.0	603.94	466.98	343.35	299.65	278.87	96.51	45.83	32.08	28.35
225.0	384.59	277.91	188.81	117.77	68.10	41.99	34.59	29.79	25.58
270.0	480.84	358.80	271.94	271.94	80.89	43.22	32.29	29.10	23.02
315.0	256.91	166.00	95.23	48.92	32.45	26.91	22.49	18.92	16.36
360.0	158.59	92.09	47.80	32.77	27.92	23.71	20.20	17.69	15.77

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	14.23	12.90	11.72	10.82	9.97	9.17	8.47	7.94	7.51
45.0	21.00	18.70	16.73	15.08	13.27	11.94	10.82	10.02	9.33
90.0	15.83	14.12	12.79	11.51	10.50	9.70	8.95	8.31	7.83
135.0	18.39	15.72	14.07	13.00	11.72	11.08	10.39	9.70	9.11
180.0	23.66	20.25	17.75	15.61	14.02	12.52	11.46	10.50	9.65
225.0	22.33	19.61	17.43	15.67	13.96	12.26	11.03	10.02	9.43
270.0	19.72	18.07	15.99	14.28	12.84	11.56	10.55	9.75	8.95
315.0	14.65	13.22	12.52	11.08	10.55	9.86	9.11	8.53	7.99
360.0	14.23	12.90	11.72	10.82	9.97	9.17	8.47	7.94	7.51

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.82	6.55	6.13	5.70	5.49	5.17	4.85	4.58	4.32
45.0	8.63	7.89	7.41	6.93	6.39	6.02	5.70	5.28	4.90
90.0	7.30	6.77	6.45	6.08	5.70	5.38	5.06	4.85	4.53
135.0	8.63	8.21	7.78	7.30	6.98	6.71	6.45	6.13	5.86
180.0	8.90	8.21	7.62	7.03	6.50	6.13	5.70	5.38	5.12
225.0	8.79	7.78	7.46	6.93	6.45	6.02	5.70	5.38	5.12
270.0	8.31	7.67	7.19	6.66	6.23	5.86	5.54	5.28	4.96
315.0	7.41	6.93	6.50	6.13	5.81	5.49	5.17	4.90	4.69
360.0	6.82	6.55	6.13	5.70	5.49	5.17	4.85	4.58	4.32

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.10	3.89	3.68	3.52	3.36	3.14	2.93	2.82	2.66
45.0	4.64	4.42	4.21	3.94	3.73	3.57	3.41	3.20	2.93
90.0	4.26	4.00	3.84	3.62	3.36	3.20	3.04	2.82	2.66
135.0	5.54	5.22	4.90	4.69	4.48	4.16	4.05	3.84	3.57
180.0	4.85	4.64	4.32	4.16	4.00	3.89	3.73	3.57	3.41
225.0	4.90	4.64	4.37	4.21	4.00	3.78	3.57	3.46	3.25
270.0	4.74	4.53	4.26	4.05	4.00	3.73	3.52	3.41	3.20
315.0	4.53	4.26	4.05	3.89	3.73	3.62	3.36	3.30	3.09
360.0	4.10	3.89	3.68	3.52	3.36	3.14	2.93	2.82	2.66

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.45	2.24	2.18	1.97	1.87	1.71	1.55	1.39	1.28
45.0	2.88	2.66	2.50	2.29	2.13	1.97	1.76	1.60	1.44
90.0	2.56	2.40	2.29	2.24	1.97	1.92	1.76	1.60	1.49
135.0	3.36	3.20	3.04	2.82	2.66	2.50	2.29	2.13	1.97
180.0	3.25	3.09	2.88	2.72	2.56	2.45	2.24	2.08	1.97
225.0	3.09	2.93	2.82	2.66	2.40	2.29	2.13	2.03	1.81
270.0	3.04	2.93	2.77	2.56	2.40	2.29	2.13	1.97	1.81
315.0	2.98	2.82	2.66	2.50	2.34	2.18	2.08	1.87	1.76
360.0	2.45	2.24	2.18	1.97	1.87	1.71	1.55	1.39	1.28

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	1.17	1.01	0.85	0.80	0.59	0.48	0.43	0.32	0.32
45.0	1.28	1.07	1.01	0.80	0.69	0.64	0.48	0.37	0.32
90.0	1.23	1.17	1.01	0.85	0.75	0.69	0.59	0.48	0.43
135.0	1.81	1.71	1.49	1.33	1.12	0.96	0.80	0.80	0.64
180.0	1.81	1.60	1.49	1.28	1.17	1.01	0.85	0.80	0.64
225.0	1.65	1.49	1.33	1.23	1.01	0.85	0.75	0.64	0.48
270.0	1.60	1.49	1.28	1.17	1.07	0.91	0.80	0.64	0.59
315.0	1.65	1.49	1.33	1.12	1.01	0.91	0.80	0.59	0.43
360.0	1.17	1.01	0.85	0.80	0.59	0.48	0.43	0.32	0.32

Intensity data(cd)

C/ γ (°)	90.0
0.0	0.32
45.0	0.27
90.0	0.37
135.0	0.59
180.0	0.53
225.0	0.48
270.0	0.43
315.0	0.32
360.0	0.32