



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

NT

Client: NT

LumCAT:

Luminaire: 92.70.455.00 LED HOLDER

Report No: 20250408-B004

Ballast type: AC

Test No: 20250408-C004

Voltage(V): 35.270

LampCAT: BRIDGELUX V18

Current(A): 0.896

Lamp flux(lm): 4397.1

Power (W): 31.560

Number of Lamps: 1

PF: 0.000

Length(mm): 111

Width(mm): 111

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 3861.03, Efficiency(%): 87.81% , Luminous Efficacy(lm/W): 122.34

Central intensity(cd): 4946.005, Maximum intensity(cd): 4989.170

Angle of maximum intensity: C=270.0 γ =3.0

Beam Angle(50%Imax): [C0/180]Total=56.1

[C90/270]Total=55.8

Field angle(10%Imax): [C0/180]Total=81.8

[C90/270]Total=82.1

Maximum s/h(1/2): C0_180=0.82 C90_270=0.73

Maximum s/h(1/4): C0_180=0.89 C90_270=0.81

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 87.77%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.957%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/4/9
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	4956.263	0.000	0	0.00%	0.00%
1.0	4952.733	4.741	4.741	0.11%	0.12%
2.0	4940.742	14.200	18.941	0.32%	0.49%
3.0	4908.369	23.556	42.497	0.54%	1.10%
4.0	4869.134	32.728	75.226	0.74%	1.95%
5.0	4821.506	41.689	116.914	0.95%	3.03%
6.0	4757.691	50.341	167.255	1.14%	4.33%
7.0	4688.148	58.630	225.886	1.33%	5.85%
8.0	4607.746	66.529	292.415	1.51%	7.57%
9.0	4518.819	73.966	366.38	1.68%	9.49%
10.0	4423.496	80.925	447.305	1.84%	11.59%
11.0	4322.245	87.388	534.693	1.99%	13.85%
12.0	4216.731	93.343	628.036	2.12%	16.27%
13.0	4107.220	98.784	726.821	2.25%	18.82%
14.0	3994.778	103.705	830.525	2.36%	21.51%
15.0	3888.132	108.220	938.746	2.46%	24.31%
16.0	3764.832	112.137	1050.883	2.55%	27.22%
17.0	3645.662	115.401	1166.284	2.62%	30.21%
18.0	3542.946	118.525	1284.809	2.70%	33.28%
19.0	3415.849	121.069	1405.877	2.75%	36.41%
20.0	3313.199	123.160	1529.038	2.80%	39.60%
21.0	3200.824	125.082	1654.12	2.84%	42.84%
22.0	3086.850	126.353	1780.474	2.87%	46.11%
23.0	2993.592	127.584	1908.058	2.90%	49.42%
24.0	2884.215	128.510	2036.568	2.92%	52.75%
25.0	2787.627	128.965	2165.533	2.93%	56.09%
26.0	2697.566	129.479	2295.012	2.94%	59.44%
27.0	2582.327	129.174	2424.185	2.94%	62.79%
28.0	2477.346	128.100	2552.286	2.91%	66.10%
29.0	2366.636	126.732	2679.018	2.88%	69.39%
30.0	2243.136	124.463	2803.481	2.83%	72.61%
31.0	2113.841	121.248	2924.729	2.76%	75.75%
32.0	1980.749	117.305	3042.034	2.67%	78.79%
33.0	1841.196	112.596	3154.63	2.56%	81.70%
34.0	1662.661	106.037	3260.667	2.41%	84.45%
35.0	1531.102	99.186	3359.854	2.26%	87.02%
36.0	1350.575	91.753	3451.607	2.09%	89.40%
37.0	1162.262	81.955	3533.561	1.86%	91.52%

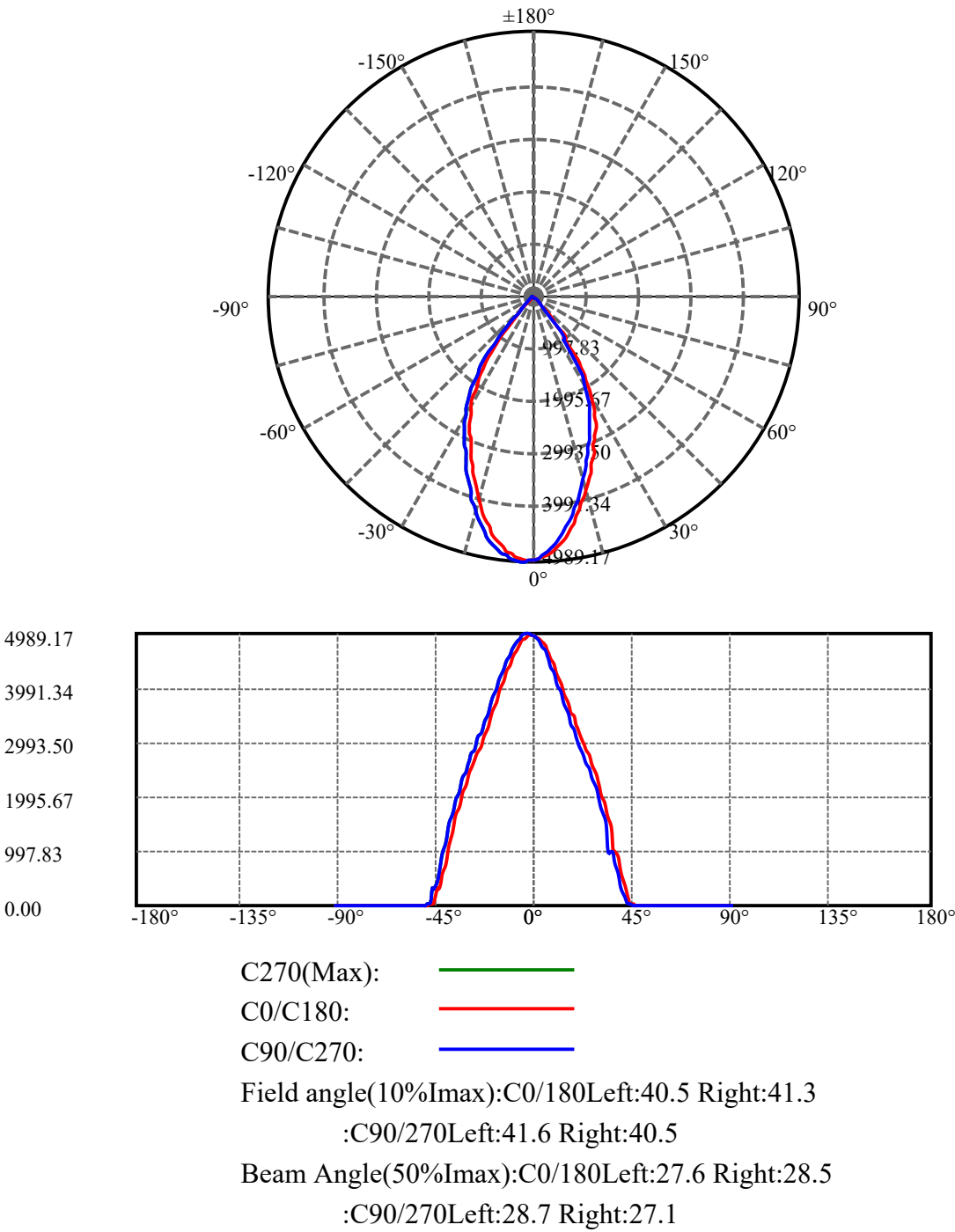
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	981.182	71.545	3605.107	1.63%	93.37%
39.0	833.336	61.934	3667.041	1.41%	94.98%
40.0	672.899	52.532	3719.573	1.19%	96.34%
41.0	506.262	41.989	3761.563	0.95%	97.42%
42.0	386.059	32.420	3793.982	0.74%	98.26%
43.0	264.185	24.087	3818.069	0.55%	98.89%
44.0	161.189	16.055	3834.124	0.37%	99.30%
45.0	76.484	9.134	3843.258	0.21%	99.54%
46.0	55.222	5.151	3848.409	0.12%	99.67%
47.0	19.045	2.954	3851.363	0.07%	99.75%
48.0	10.698	1.202	3852.565	0.03%	99.78%
49.0	8.013	0.768	3853.333	0.02%	99.80%
50.0	6.435	0.602	3853.936	0.01%	99.82%
51.0	5.516	0.506	3854.441	0.01%	99.83%
52.0	4.929	0.448	3854.89	0.01%	99.84%
53.0	4.516	0.411	3855.3	0.01%	99.85%
54.0	4.210	0.385	3855.685	0.01%	99.86%
55.0	3.850	0.360	3856.045	0.01%	99.87%
56.0	3.597	0.337	3856.381	0.01%	99.88%
57.0	3.337	0.317	3856.698	0.01%	99.89%
58.0	3.131	0.299	3856.998	0.01%	99.90%
59.0	2.951	0.284	3857.282	0.01%	99.90%
60.0	2.738	0.269	3857.551	0.01%	99.91%
61.0	2.565	0.253	3857.804	0.01%	99.92%
62.0	2.418	0.240	3858.044	0.01%	99.92%
63.0	2.238	0.226	3858.27	0.01%	99.93%
64.0	2.105	0.213	3858.483	0.00%	99.93%
65.0	1.965	0.201	3858.685	0.00%	99.94%
66.0	1.819	0.189	3858.873	0.00%	99.94%
67.0	1.705	0.177	3859.051	0.00%	99.95%
68.0	1.605	0.168	3859.218	0.00%	99.95%
69.0	1.485	0.158	3859.376	0.00%	99.96%
70.0	1.366	0.146	3859.522	0.00%	99.96%
71.0	1.272	0.136	3859.659	0.00%	99.96%
72.0	1.179	0.127	3859.786	0.00%	99.97%
73.0	1.106	0.119	3859.906	0.00%	99.97%
74.0	0.999	0.111	3860.016	0.00%	99.97%
75.0	0.926	0.102	3860.118	0.00%	99.98%

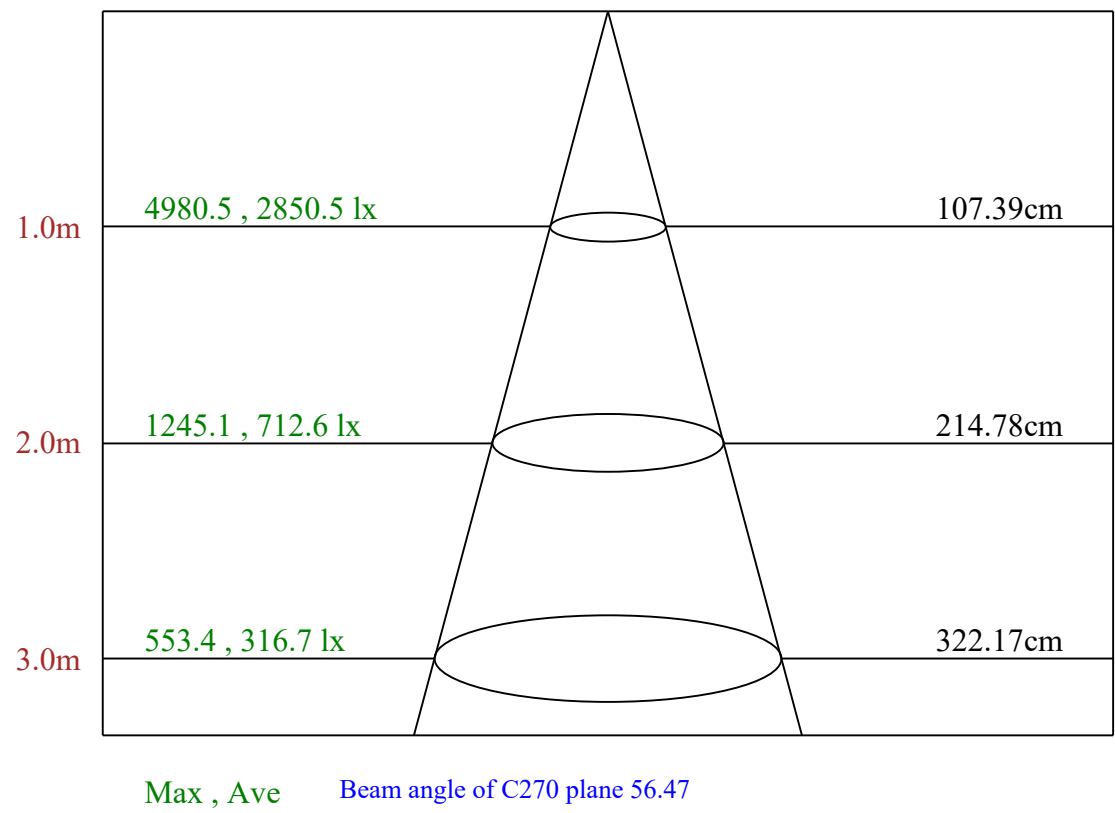
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.866	0.095	3860.213	0.00%	99.98%
77.0	0.806	0.089	3860.302	0.00%	99.98%
78.0	0.746	0.083	3860.385	0.00%	99.98%
79.0	0.673	0.076	3860.462	0.00%	99.99%
80.0	0.619	0.070	3860.531	0.00%	99.99%
81.0	0.580	0.065	3860.596	0.00%	99.99%
82.0	0.540	0.061	3860.657	0.00%	99.99%
83.0	0.500	0.056	3860.713	0.00%	99.99%
84.0	0.453	0.052	3860.765	0.00%	99.99%
85.0	0.433	0.048	3860.814	0.00%	99.99%
86.0	0.393	0.045	3860.859	0.00%	100.00%
87.0	0.380	0.042	3860.901	0.00%	100.00%
88.0	0.386	0.042	3860.943	0.00%	100.00%
89.0	0.393	0.043	3860.986	0.00%	100.00%
90.0	0.453	0.046	3861.032	0.00%	100.00%

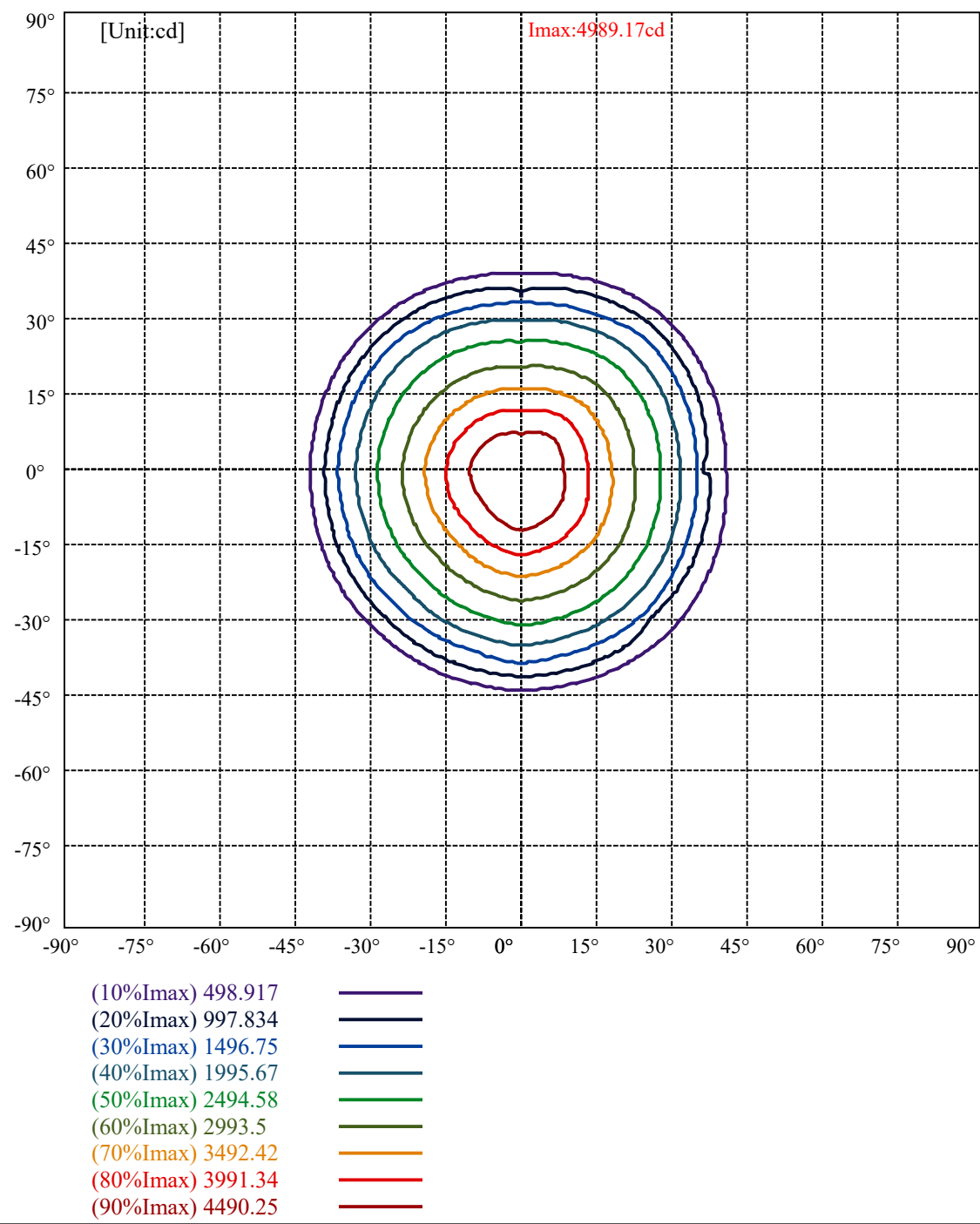
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2803.48	63.76%	72.61%
0-40	3719.57	84.59%	96.34%
0-60	3857.55	87.73%	99.91%
0-90	3860.99	87.81%	100.00%
0-120	3860.99	87.81%	100.00%
0-180	3861.03	87.81%	100.00%
60-90	3.44	0.08%	0.09%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.42	3088.83	70.25%	80.00%

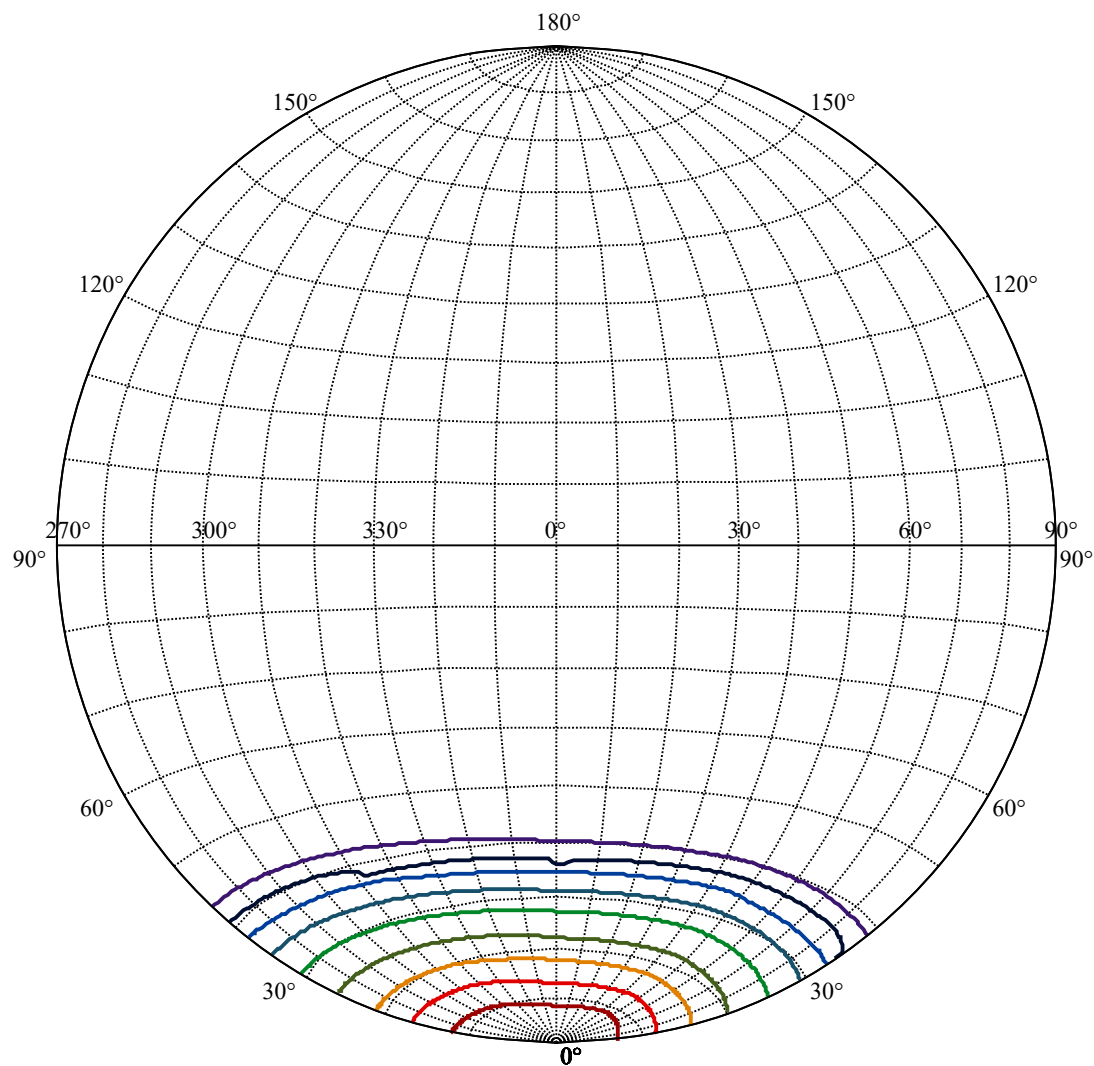
ZONAL LUMEN SUMMARY

0-10	447.31
10-20	1081.73
20-30	1274.44
30-40	916.09
40-50	134.36
50-60	3.61
60-70	1.97
70-80	1.01
80-90	0.45
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







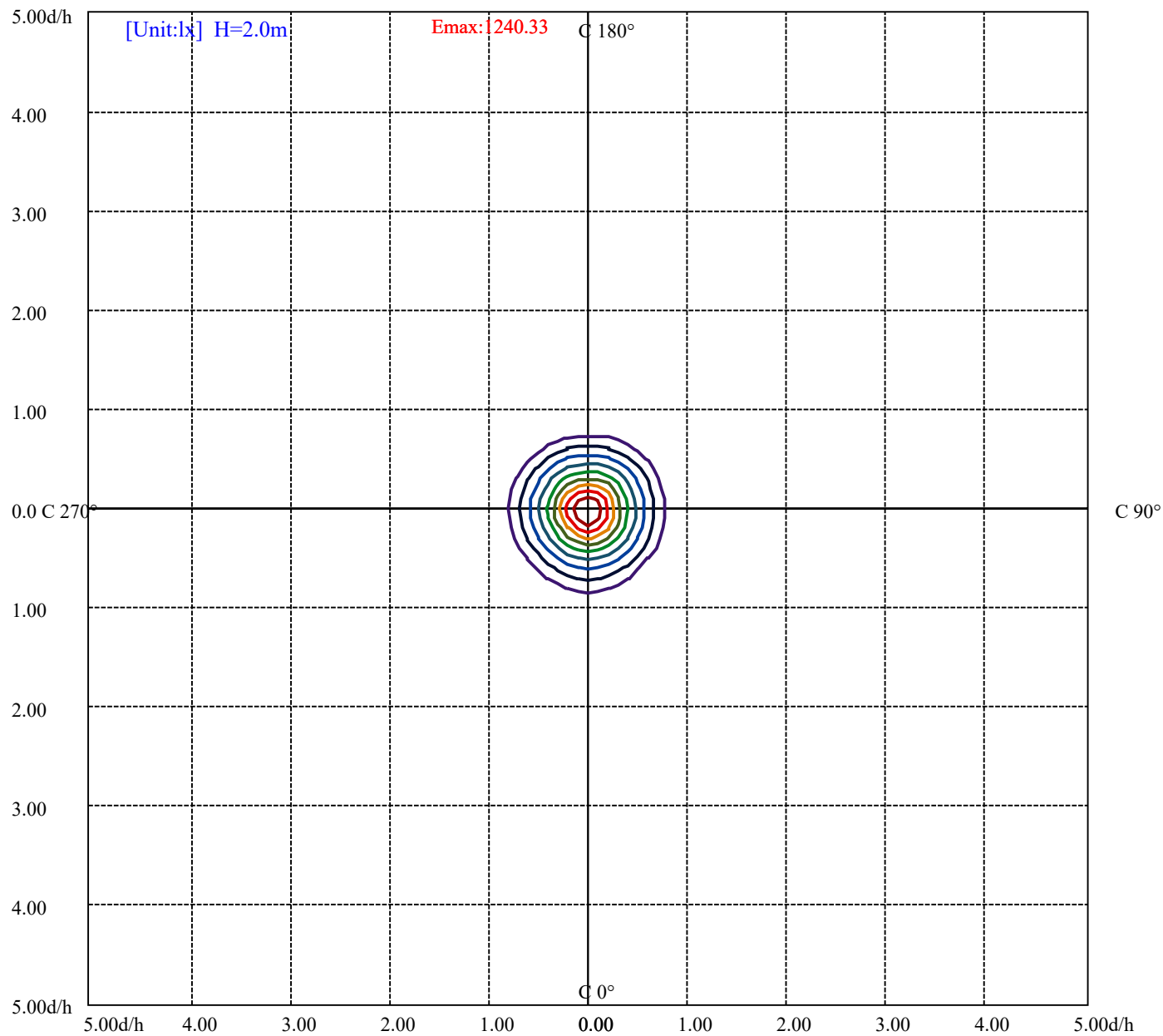


House

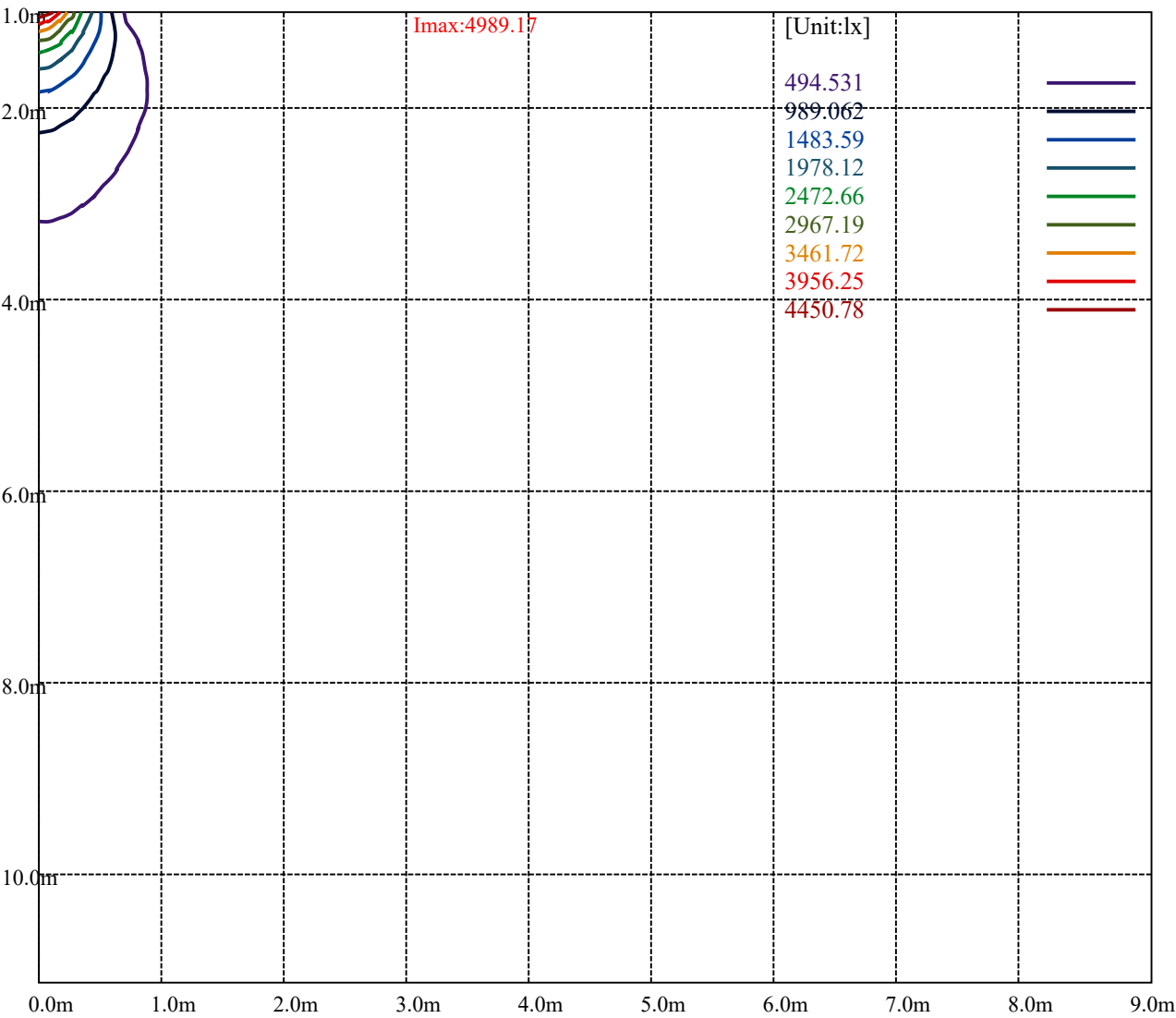
[Unit:cd]

Road

Imax:4989.17	
(10%Imax) 498.794	
(20%Imax) 997.589	
(30%Imax) 1496.38	
(40%Imax) 1995.18	
(50%Imax) 2493.97	
(60%Imax) 2992.77	
(70%Imax) 3491.56	
(80%Imax) 3990.35	
(90%Imax) 4489.15	



(10%Emax)	124.0325	—
(20%Emax)	248.0647	—
(30%Emax)	372.0975	—
(40%Emax)	496.13	—
(50%Emax)	620.1625	—
(60%Emax)	744.195	—
(70%Emax)	868.2275	—
(80%Emax)	992.26	—
(90%Emax)	1116.292	—



Luminance Table

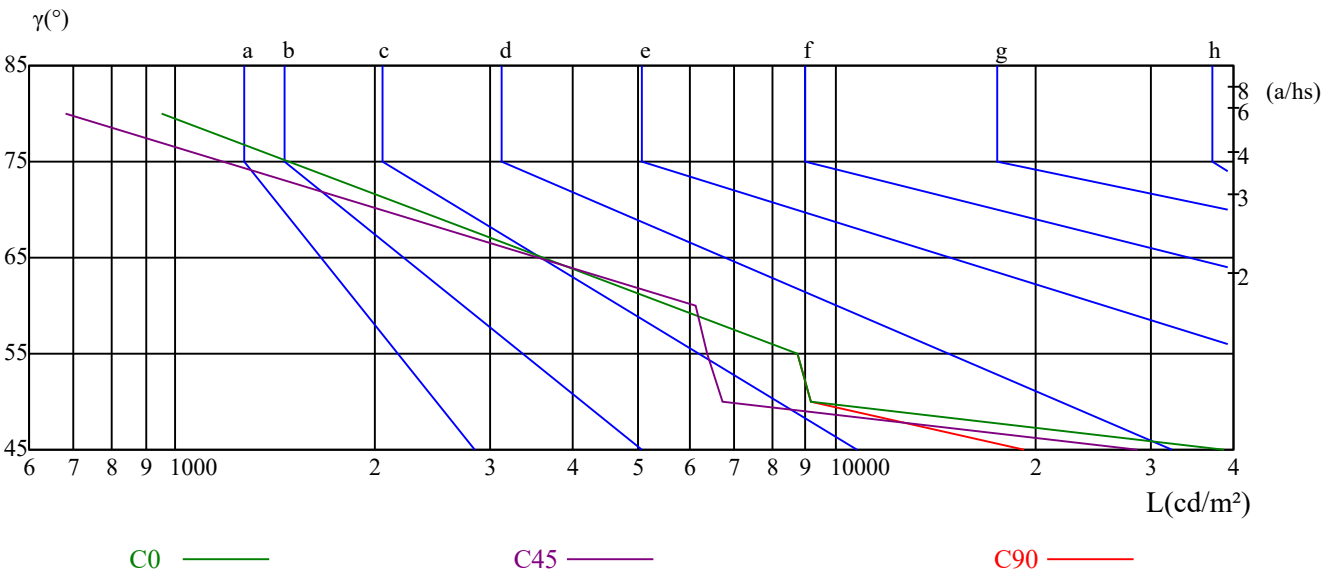
γ	45	50	55	60	65	70	75	80	85
C0	38598	9135	8735	0	0	0	0	953	0
C45	28591	6722	6390	6134	0	0	0	680	0
C90	19299	9135	8735	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

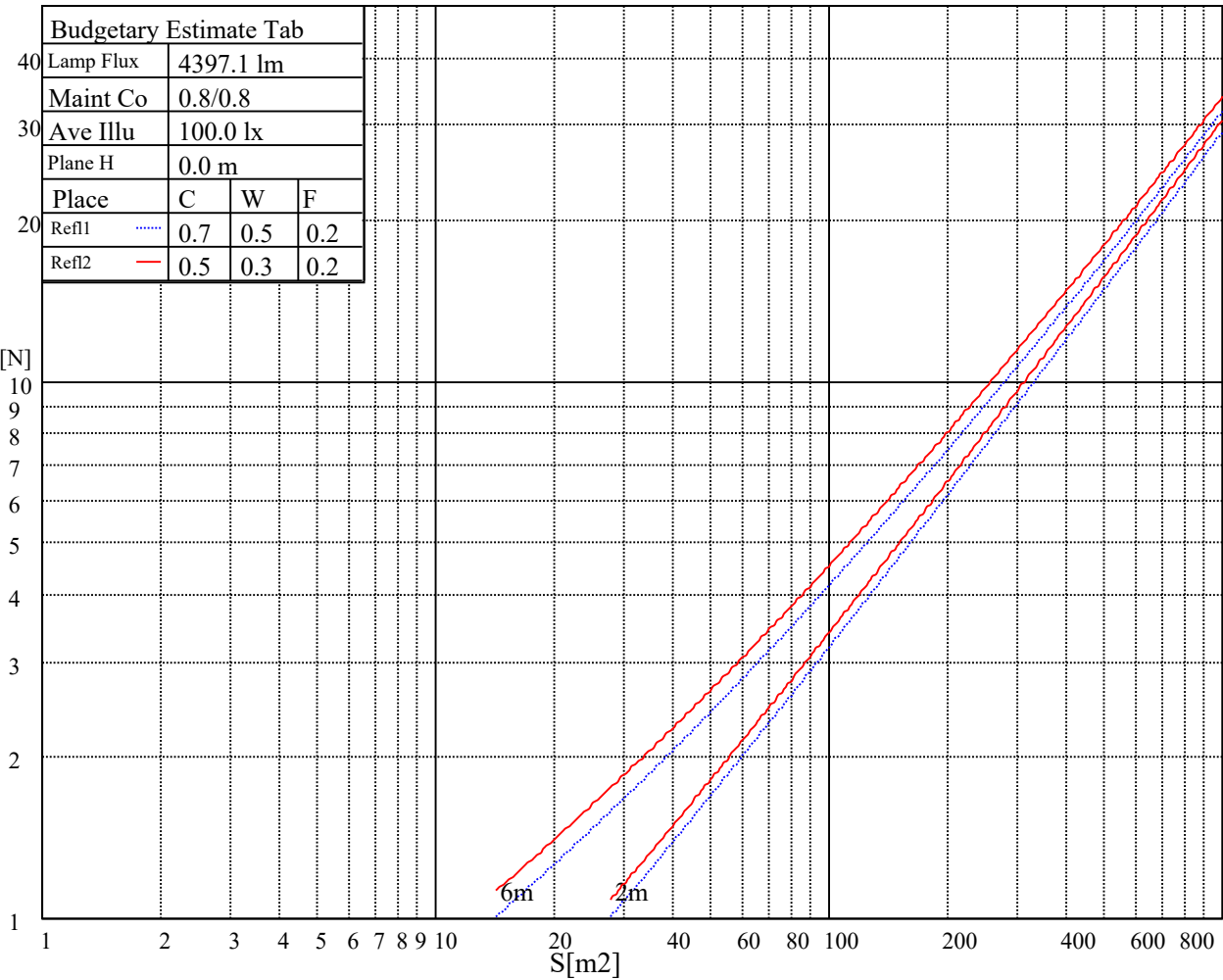
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

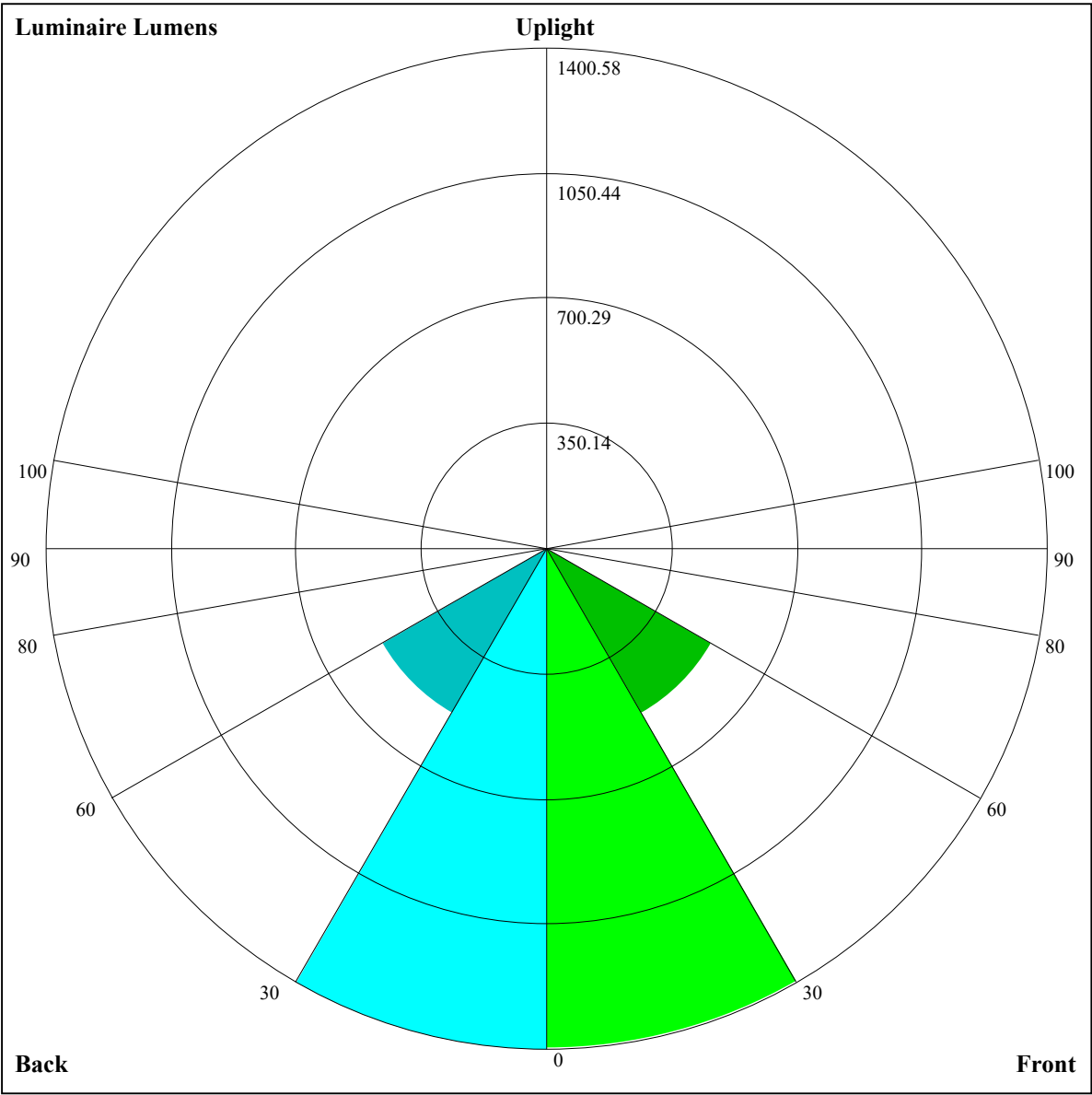


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	28.47	29.39	28.83	29.70	30.02	27.77	28.69	28.13	29.00	29.32
	3H	28.25	29.07	28.64	29.41	29.75	27.55	28.37	27.94	28.71	29.05
	4H	28.14	28.90	28.54	29.25	29.62	27.44	28.20	27.84	28.55	28.92
	6H	28.05	28.74	28.47	29.11	29.51	27.35	28.04	27.77	28.41	28.81
	8H	27.97	28.63	28.39	29.01	29.42	27.27	27.93	27.69	28.31	28.72
	12H	27.90	28.52	28.32	28.91	29.33	27.20	27.82	27.62	28.21	28.63
4H	2H	28.14	28.90	28.54	29.25	29.62	27.44	28.20	27.84	28.55	28.92
	3H	27.88	28.51	28.31	28.91	29.33	27.18	27.81	27.61	28.21	28.63
	4H	27.80	28.34	28.24	28.77	29.22	27.10	27.64	27.54	28.07	28.52
	6H	27.65	28.13	28.12	28.58	29.03	26.95	27.43	27.43	27.88	28.34
	8H	27.59	28.03	28.07	28.49	28.96	26.89	27.33	27.37	27.79	28.26
	12H	27.53	27.94	28.02	28.39	28.91	26.83	27.24	27.32	27.69	28.21
8H	4H	27.59	28.03	28.07	28.49	28.96	26.89	27.33	27.37	27.79	28.26
	6H	27.42	27.78	27.93	28.26	28.77	26.72	27.08	27.23	27.56	28.08
	8H	27.40	27.70	27.94	28.22	28.72	26.70	27.00	27.24	27.53	28.02
	12H	27.34	27.57	27.89	28.09	28.61	26.64	26.87	27.19	27.39	27.91
12H	4H	27.53	27.94	28.02	28.39	28.91	26.83	27.24	27.32	27.69	28.21
	6H	27.40	27.70	27.94	28.22	28.72	26.70	27.00	27.24	27.52	28.02
	8H	27.34	27.57	27.89	28.09	28.61	26.64	26.87	27.19	27.39	27.91
Variation with the observer position at spacings:											
S = 1.0H		5.5/-26.7					5.7/-27.2				
S = 1.5H		8.3/-27.3					8.5/-27.7				
S = 2.0H		10.3/-27.7					10.5/-28.0				
Standard tables:		BK0					BK0				
Uncorrected UGR		8.6					9.3				

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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.04	1.04	1.04	1.02	1.02	1.02	0.98	0.98	0.98	0.93	0.93	0.93	0.90	0.90	0.90	0.88
1	0.97	0.95	0.93	0.96	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.78	0.77
3	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.78	0.76	0.79	0.77	0.74	0.77	0.75	0.73	0.72
4	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.67
5	0.75	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
6	0.70	0.65	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
7	0.66	0.61	0.57	0.66	0.61	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.56	0.55
8	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52
9	0.59	0.54	0.51	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.49
10	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.50	0.47	0.54	0.50	0.47	0.53	0.50	0.47	0.46



Luminaire Lumens:
FL=1399.91,FM=532.58,FH=1.52,FVH=0.26
BL=1400.58,BM=532.31,BH=1.5,BVH=0.25
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	4946.00	4932.68	4906.04	4869.80	4821.31	4761.09	4688.08	4606.55	4515.42
45.0	4962.52	4944.41	4932.68	4889.52	4860.74	4804.79	4736.04	4658.24	4569.78
90.0	4946.00	4916.16	4871.40	4813.31	4746.17	4669.96	4580.97	4481.85	4379.00
135.0	4970.52	4949.74	4934.81	4871.93	4816.51	4778.14	4708.33	4628.40	4533.01
180.0	4946.00	4952.93	4950.27	4931.08	4898.58	4861.27	4810.12	4746.70	4677.42
225.0	4962.52	4973.18	4965.72	4947.60	4911.90	4866.60	4809.05	4743.50	4667.83
270.0	4946.00	4969.99	4986.51	4989.17	4978.51	4954.00	4900.18	4871.40	4820.77
315.0	4970.52	4982.77	4978.51	4954.53	4919.36	4876.19	4828.77	4768.55	4698.74
360.0	4946.00	4932.68	4906.04	4869.80	4821.31	4761.09	4688.08	4606.55	4515.42
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4421.63	4318.78	4210.07	4102.96	3991.58	3878.07	3764.57	3655.32	3542.35
45.0	4473.86	4371.54	4261.76	4150.39	4036.34	3918.04	3800.80	3685.70	3568.46
90.0	4270.29	4156.78	4039.54	3924.44	3806.66	3685.70	3558.87	3461.88	3319.59
135.0	4436.02	4333.70	4223.39	4106.69	3992.65	3874.88	3752.31	3626.01	3500.78
180.0	4595.36	4503.16	4406.71	4307.59	4195.15	4084.84	3971.86	3852.49	3728.86
225.0	4580.44	4489.84	4395.52	4289.47	4181.29	4072.58	4008.63	3839.17	3716.60
270.0	4753.09	4678.49	4593.22	4503.16	4407.78	4304.93	4197.28	4086.97	3972.40
315.0	4619.87	4535.67	4447.74	4349.16	4246.31	4139.19	4050.73	3911.11	3816.26
360.0	4421.63	4318.78	4210.07	4102.96	3991.58	3878.07	3764.57	3655.32	3542.35
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3475.73	3320.13	3255.11	3148.53	3007.31	2948.16	2851.17	2750.99	2647.61
45.0	3450.15	3335.05	3221.54	3112.83	3010.51	2927.38	2810.14	2711.56	2630.02
90.0	3226.87	3113.89	3005.72	2902.33	2803.21	2705.16	2607.11	2506.39	2400.34
135.0	3382.48	3266.30	3155.46	3046.75	2945.50	2886.35	2747.26	2651.34	2594.85
180.0	3607.36	3487.99	3367.02	3250.85	3136.81	3029.70	2927.38	2822.93	2762.18
225.0	3645.73	3476.27	3403.26	3281.76	3162.92	3051.01	2945.50	2841.05	2733.94
270.0	3851.43	3737.39	3624.41	3505.58	3385.67	3267.37	3154.93	3088.32	2981.74
315.0	3703.81	3589.77	3473.07	3357.96	3242.86	3133.61	3030.23	2928.45	2829.86
360.0	3475.73	3320.13	3255.11	3148.53	3007.31	2948.16	2851.17	2750.99	2647.61
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2537.83	2421.66	2297.49	2164.27	2026.25	1886.09	1749.14	1612.72	1438.46
45.0	2524.51	2413.13	2294.29	2166.93	2032.11	1894.09	1757.13	1622.31	1463.50
90.0	2285.77	2162.14	2031.57	1893.55	1759.26	1626.57	1459.77	997.11	997.11
135.0	2451.50	2384.35	2264.45	2135.49	1999.60	1860.51	1720.36	1570.62	1386.77
180.0	2662.00	2515.45	2447.24	2327.87	2199.97	2067.81	1930.86	1791.77	1658.54
225.0	2628.42	2519.71	2405.67	2284.70	2155.74	2021.98	1886.09	1750.74	1622.84
270.0	2841.05	2779.77	2678.52	2570.87	2459.49	2341.72	2215.96	2083.80	1945.24
315.0	2727.54	2622.56	2513.85	2401.41	2278.31	2147.21	2010.26	1872.24	1736.35
360.0	2537.83	2421.66	2297.49	2164.27	2026.25	1886.09	1749.14	1612.72	1438.46
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	984.80	984.80	904.38	718.40	543.98	383.16	238.26	118.78	39.86
45.0	1281.25	1089.41	895.96	703.05	522.40	362.00	332.16	332.16	55.79
90.0	959.38	766.63	584.54	416.04	263.68	140.53	51.32	23.18	15.72
135.0	1191.19	991.89	797.38	615.13	444.60	291.66	291.66	49.56	26.33
180.0	1507.20	1325.48	1130.44	938.06	751.02	579.96	416.35	322.03	322.03
225.0	1478.96	1050.88	1050.88	974.51	788.00	606.97	437.78	288.09	160.62
270.0	1807.22	1672.40	1527.98	1343.60	1151.76	957.78	769.67	591.68	425.41
315.0	1594.60	1416.61	957.89	957.89	917.76	728.05	551.29	388.00	243.75
360.0	984.80	984.80	904.38	718.40	543.98	383.16	238.26	118.78	39.86

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	19.08	12.74	8.21	6.77	5.65	5.06	4.58	4.26	3.94
45.0	23.02	15.40	10.07	7.94	6.61	5.86	5.33	4.90	4.58
90.0	10.18	8.15	6.82	5.97	5.38	4.96	4.53	4.16	3.89
135.0	17.05	11.30	8.31	6.45	5.65	5.06	4.58	4.21	3.89
180.0	50.36	24.78	16.63	10.82	8.21	6.50	5.65	4.96	4.48
225.0	65.39	25.63	17.64	11.83	9.17	7.30	6.34	5.60	5.06
270.0	302.31	302.31	65.92	23.34	15.40	10.02	7.67	6.45	5.76
315.0	124.49	41.46	18.76	12.47	8.05	6.71	5.44	4.90	4.53
360.0	19.08	12.74	8.21	6.77	5.65	5.06	4.58	4.26	3.94
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.68	3.46	3.30	2.98	2.93	2.72	2.50	2.40	2.24
45.0	4.26	3.94	3.73	3.46	3.25	3.09	2.82	2.66	2.56
90.0	3.68	3.41	3.14	2.98	2.82	2.66	2.50	2.29	2.13
135.0	3.62	3.36	3.09	2.93	2.77	2.56	2.34	2.24	2.13
180.0	4.16	3.78	3.46	3.20	2.98	2.82	2.61	2.40	2.40
225.0	4.80	4.21	4.05	3.73	3.36	3.20	3.04	2.77	2.61
270.0	5.28	4.85	4.42	4.05	3.84	3.62	3.30	3.20	2.93
315.0	4.21	3.78	3.57	3.36	3.09	2.93	2.77	2.56	2.34
360.0	3.68	3.46	3.30	2.98	2.93	2.72	2.50	2.40	2.24
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.08	1.97	1.87	1.71	1.60	1.49	1.39	1.33	1.17
45.0	2.34	2.18	2.03	1.92	1.81	1.65	1.49	1.39	1.33
90.0	1.97	1.87	1.76	1.60	1.49	1.39	1.28	1.23	1.12
135.0	1.97	1.92	1.76	1.65	1.55	1.49	1.33	1.17	1.17
180.0	2.18	1.97	1.92	1.71	1.60	1.55	1.49	1.33	1.23
225.0	2.40	2.24	2.13	1.97	1.81	1.71	1.60	1.44	1.33
270.0	2.77	2.61	2.34	2.24	2.13	1.97	1.87	1.71	1.55
315.0	2.18	2.08	1.92	1.76	1.65	1.60	1.44	1.33	1.28
360.0	2.08	1.97	1.87	1.71	1.60	1.49	1.39	1.33	1.17
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.12	1.01	0.96	0.91	0.80	0.80	0.75	0.69	0.64
45.0	1.23	1.12	1.01	0.96	0.91	0.80	0.75	0.69	0.64
90.0	1.01	0.96	0.85	0.75	0.75	0.69	0.64	0.59	0.59
135.0	1.07	1.01	0.91	0.85	0.80	0.75	0.64	0.59	0.59
180.0	1.12	1.12	1.01	0.91	0.85	0.80	0.75	0.69	0.59
225.0	1.23	1.17	1.07	0.96	0.91	0.80	0.80	0.69	0.59
270.0	1.49	1.39	1.23	1.12	1.07	1.01	0.91	0.80	0.75
315.0	1.17	1.07	0.96	0.96	0.85	0.80	0.75	0.64	0.59
360.0	1.12	1.01	0.96	0.91	0.80	0.80	0.75	0.69	0.64
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.53	0.59	0.53	0.48	0.48	0.43	0.43	0.43	0.53
45.0	0.59	0.53	0.53	0.48	0.43	0.48	0.43	0.43	0.48
90.0	0.53	0.48	0.48	0.43	0.43	0.37	0.43	0.43	0.37
135.0	0.53	0.48	0.48	0.43	0.43	0.37	0.43	0.53	0.48
180.0	0.59	0.53	0.43	0.43	0.43	0.32	0.32	0.32	0.32
225.0	0.59	0.59	0.48	0.48	0.37	0.37	0.32	0.32	0.32
270.0	0.75	0.64	0.59	0.53	0.48	0.43	0.37	0.32	0.32
315.0	0.53	0.48	0.48	0.37	0.43	0.37	0.32	0.32	0.32
360.0	0.53	0.59	0.53	0.48	0.48	0.43	0.43	0.43	0.53

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.85
45.0	0.48
90.0	0.43
135.0	0.43
180.0	0.59
225.0	0.27
270.0	0.32
315.0	0.27
360.0	0.85