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NT

Client: NT

LumCAT: 2-2958-LM

Luminaire: 92.70.411.00 LED HOLDER

Report No: 20250318-B004

Ballast type: AC

Test No: 20250318-C004

Voltage(V): 36.220

LampCAT: LUMILEDS LUXEON COB 1208 Current(A): 0.897

Lamp flux(lm): 3955.3 Power (W): 32.410

Number of Lamps: 1 PF: 0.000

Length(mm): 69 Width(mm): 69

Phm Type: C Height(mm): 44

Photometric Results

Lumens(lm): 3731.15, Efficiency(%): 94.33% , Luminous Efficacy(lm/W): 115.12

Central intensity(cd): 5786.388, Maximum intensity(cd): 5810.369

Angle of maximum intensity: C=135.0 γ =4.0

Beam Angle(50%Imax): [C0/180]Total=50.0

[C90/270]Total=49.2

Field angle(10%Imax): [C0/180]Total=72.4

[C90/270]Total=72.8

Maximum s/h(1/2): C0_180=0.82 C90_270=0.76

Maximum s/h(1/4): C0_180=0.80 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.28%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.944%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5780.659	0.000	0	0.00%	0.00%
1.0	5781.459	5.532	5.532	0.14%	0.15%
2.0	5782.125	16.597	22.129	0.42%	0.59%
3.0	5777.329	27.646	49.776	0.70%	1.33%
4.0	5763.873	38.632	88.408	0.98%	2.37%
5.0	5726.037	49.429	137.837	1.25%	3.69%
6.0	5684.937	59.968	197.805	1.52%	5.30%
7.0	5627.251	70.215	268.019	1.78%	7.18%
8.0	5560.772	80.071	348.09	2.02%	9.33%
9.0	5489.430	89.556	437.646	2.26%	11.73%
10.0	5414.690	98.678	536.324	2.49%	14.37%
11.0	5330.892	107.370	643.694	2.71%	17.25%
12.0	5238.101	115.534	759.229	2.92%	20.35%
13.0	5127.657	123.015	882.244	3.11%	23.65%
14.0	5005.023	129.697	1011.941	3.28%	27.12%
15.0	4864.271	135.490	1147.431	3.43%	30.75%
16.0	4714.793	140.360	1287.792	3.55%	34.51%
17.0	4532.941	144.012	1431.804	3.64%	38.37%
18.0	4349.623	146.454	1578.258	3.70%	42.30%
19.0	4156.114	147.982	1726.24	3.74%	46.27%
20.0	3936.359	148.115	1874.355	3.74%	50.24%
21.0	3713.141	146.886	2021.241	3.71%	54.17%
22.0	3483.794	144.625	2165.866	3.66%	58.05%
23.0	3270.834	141.730	2307.597	3.58%	61.85%
24.0	3065.401	138.533	2446.129	3.50%	65.56%
25.0	2868.428	134.922	2581.052	3.41%	69.18%
26.0	2661.929	130.545	2711.596	3.30%	72.67%
27.0	2486.338	125.953	2837.55	3.18%	76.05%
28.0	2298.491	121.142	2958.692	3.06%	79.30%
29.0	2100.452	115.089	3073.78	2.91%	82.38%
30.0	1883.428	107.564	3181.344	2.72%	85.26%
31.0	1663.807	98.714	3280.059	2.50%	87.91%
32.0	1375.994	87.087	3367.145	2.20%	90.24%
33.0	1182.845	75.384	3442.53	1.91%	92.26%
34.0	1014.828	66.508	3509.038	1.68%	94.05%
35.0	820.773	57.007	3566.045	1.44%	95.58%
36.0	621.568	45.924	3611.969	1.16%	96.81%
37.0	455.083	35.114	3647.084	0.89%	97.75%

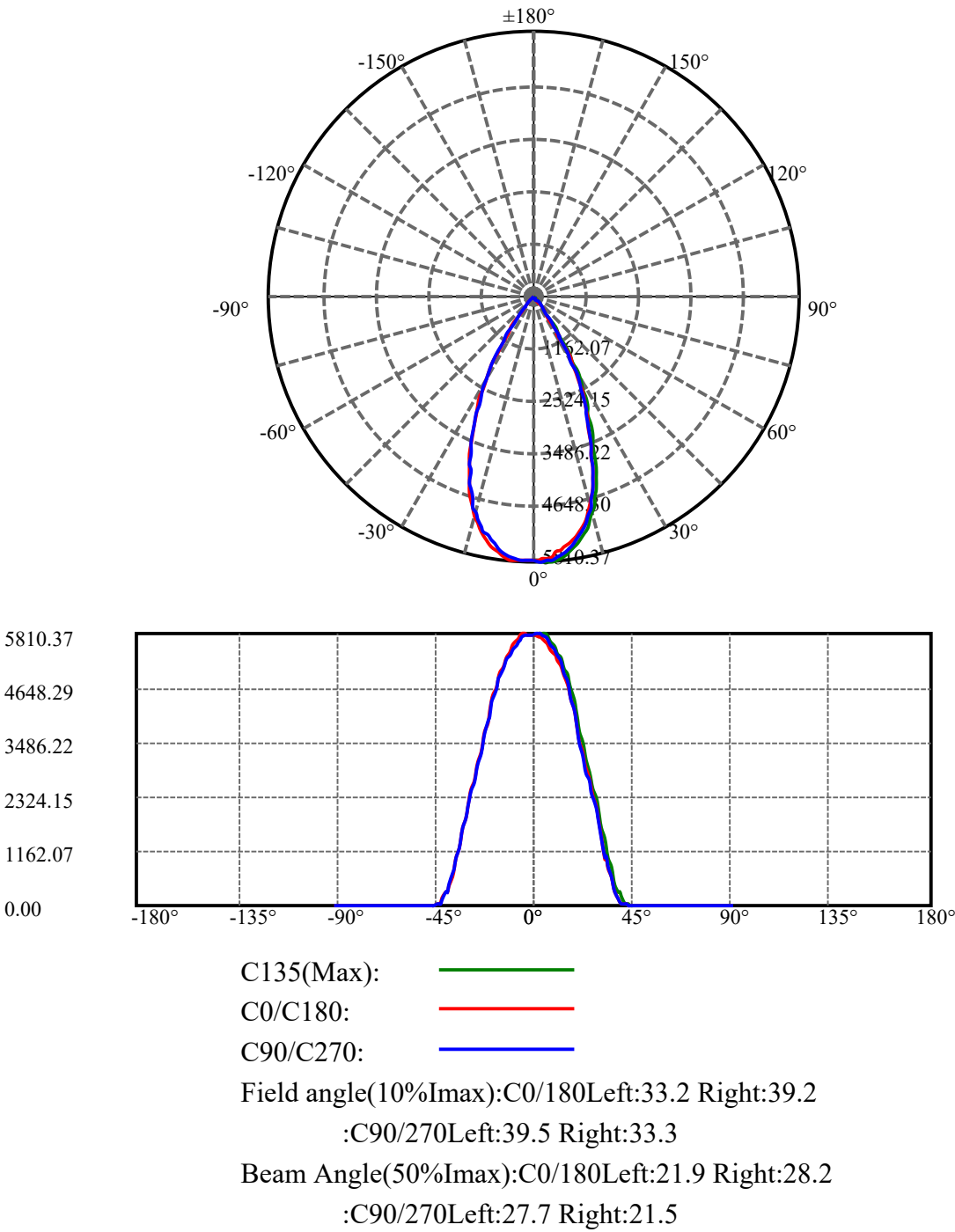
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	298.437	25.152	3672.235	0.64%	98.42%
39.0	214.166	17.497	3689.732	0.44%	98.89%
40.0	160.543	13.069	3702.8	0.33%	99.24%
41.0	70.942	8.243	3711.043	0.21%	99.46%
42.0	34.792	3.842	3714.885	0.10%	99.56%
43.0	23.294	2.152	3717.036	0.05%	99.62%
44.0	15.747	1.474	3718.51	0.04%	99.66%
45.0	11.697	1.055	3719.565	0.03%	99.69%
46.0	9.685	0.836	3720.401	0.02%	99.71%
47.0	8.440	0.721	3721.122	0.02%	99.73%
48.0	7.547	0.646	3721.768	0.02%	99.75%
49.0	6.894	0.593	3722.361	0.01%	99.76%
50.0	6.375	0.553	3722.914	0.01%	99.78%
51.0	5.909	0.520	3723.434	0.01%	99.79%
52.0	5.529	0.491	3723.925	0.01%	99.81%
53.0	5.129	0.464	3724.388	0.01%	99.82%
54.0	4.769	0.436	3724.825	0.01%	99.83%
55.0	4.463	0.412	3725.237	0.01%	99.84%
56.0	4.150	0.389	3725.626	0.01%	99.85%
57.0	3.897	0.368	3725.994	0.01%	99.86%
58.0	3.630	0.348	3726.342	0.01%	99.87%
59.0	3.404	0.329	3726.671	0.01%	99.88%
60.0	3.184	0.311	3726.982	0.01%	99.89%
61.0	2.971	0.294	3727.276	0.01%	99.90%
62.0	2.751	0.276	3727.552	0.01%	99.90%
63.0	2.605	0.260	3727.812	0.01%	99.91%
64.0	2.418	0.246	3728.059	0.01%	99.92%
65.0	2.225	0.230	3728.288	0.01%	99.92%
66.0	2.112	0.216	3728.505	0.01%	99.93%
67.0	1.978	0.206	3728.71	0.01%	99.93%
68.0	1.839	0.193	3728.904	0.00%	99.94%
69.0	1.725	0.182	3729.086	0.00%	99.94%
70.0	1.625	0.172	3729.258	0.00%	99.95%
71.0	1.525	0.163	3729.42	0.00%	99.95%
72.0	1.406	0.152	3729.573	0.00%	99.96%
73.0	1.332	0.143	3729.716	0.00%	99.96%
74.0	1.266	0.137	3729.853	0.00%	99.97%
75.0	1.192	0.130	3729.982	0.00%	99.97%

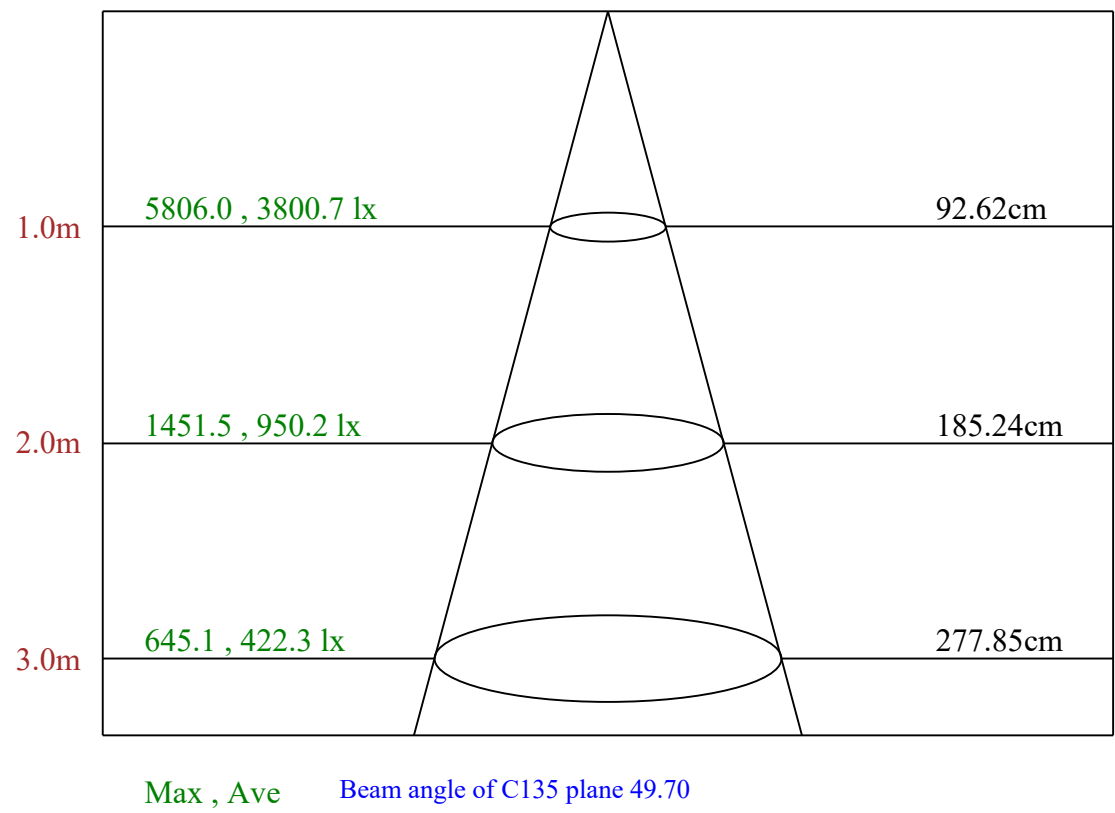
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.106	0.122	3730.104	0.00%	99.97%
77.0	1.039	0.114	3730.219	0.00%	99.98%
78.0	0.986	0.108	3730.327	0.00%	99.98%
79.0	0.913	0.102	3730.429	0.00%	99.98%
80.0	0.846	0.095	3730.524	0.00%	99.98%
81.0	0.786	0.088	3730.612	0.00%	99.99%
82.0	0.726	0.082	3730.694	0.00%	99.99%
83.0	0.666	0.076	3730.77	0.00%	99.99%
84.0	0.633	0.071	3730.841	0.00%	99.99%
85.0	0.586	0.067	3730.907	0.00%	99.99%
86.0	0.513	0.060	3730.967	0.00%	100.00%
87.0	0.473	0.054	3731.021	0.00%	100.00%
88.0	0.420	0.049	3731.07	0.00%	100.00%
89.0	0.326	0.041	3731.111	0.00%	100.00%
90.0	0.293	0.034	3731.145	0.00%	100.00%

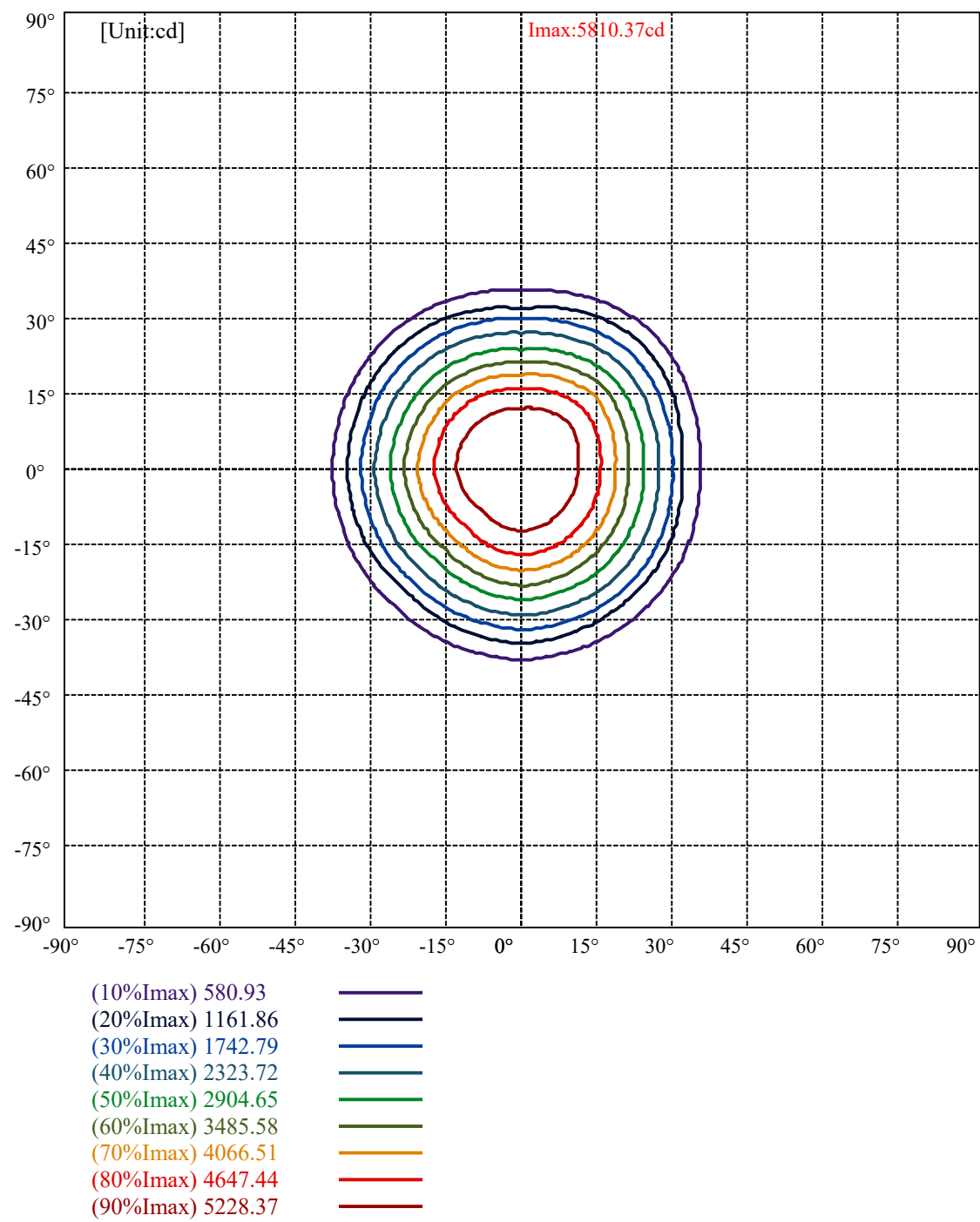
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3181.34	80.43%	85.26%
0-40	3702.80	93.62%	99.24%
0-60	3726.98	94.23%	99.89%
0-90	3731.11	94.33%	100.00%
0-120	3731.11	94.33%	100.00%
0-180	3731.15	94.33%	100.00%
60-90	4.13	0.10%	0.11%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.23	2984.92	75.47%	80.00%

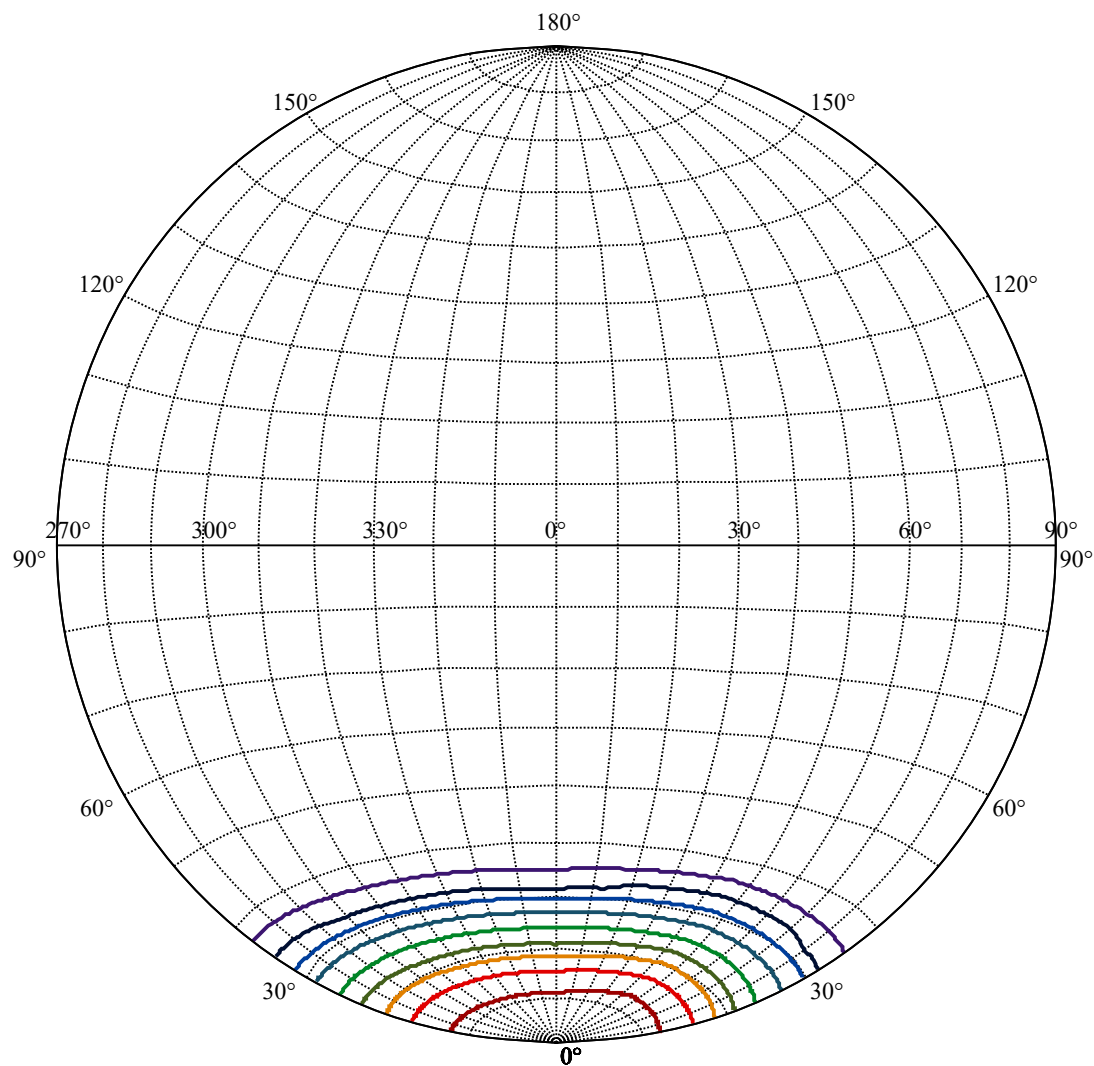
ZONAL LUMEN SUMMARY

0-10	536.32
10-20	1338.03
20-30	1306.99
30-40	521.46
40-50	20.11
50-60	4.07
60-70	2.28
70-80	1.27
80-90	0.59
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







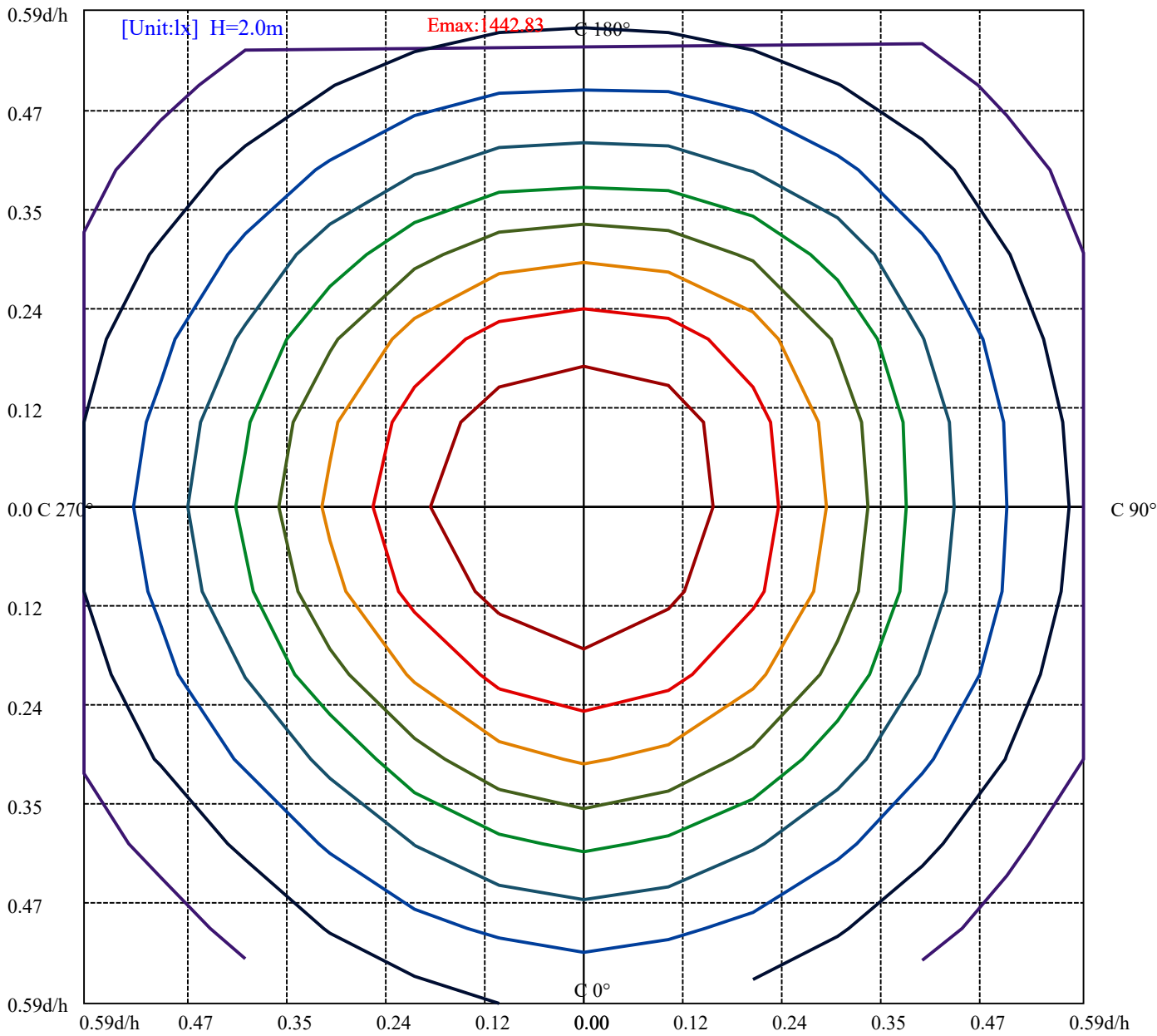


House

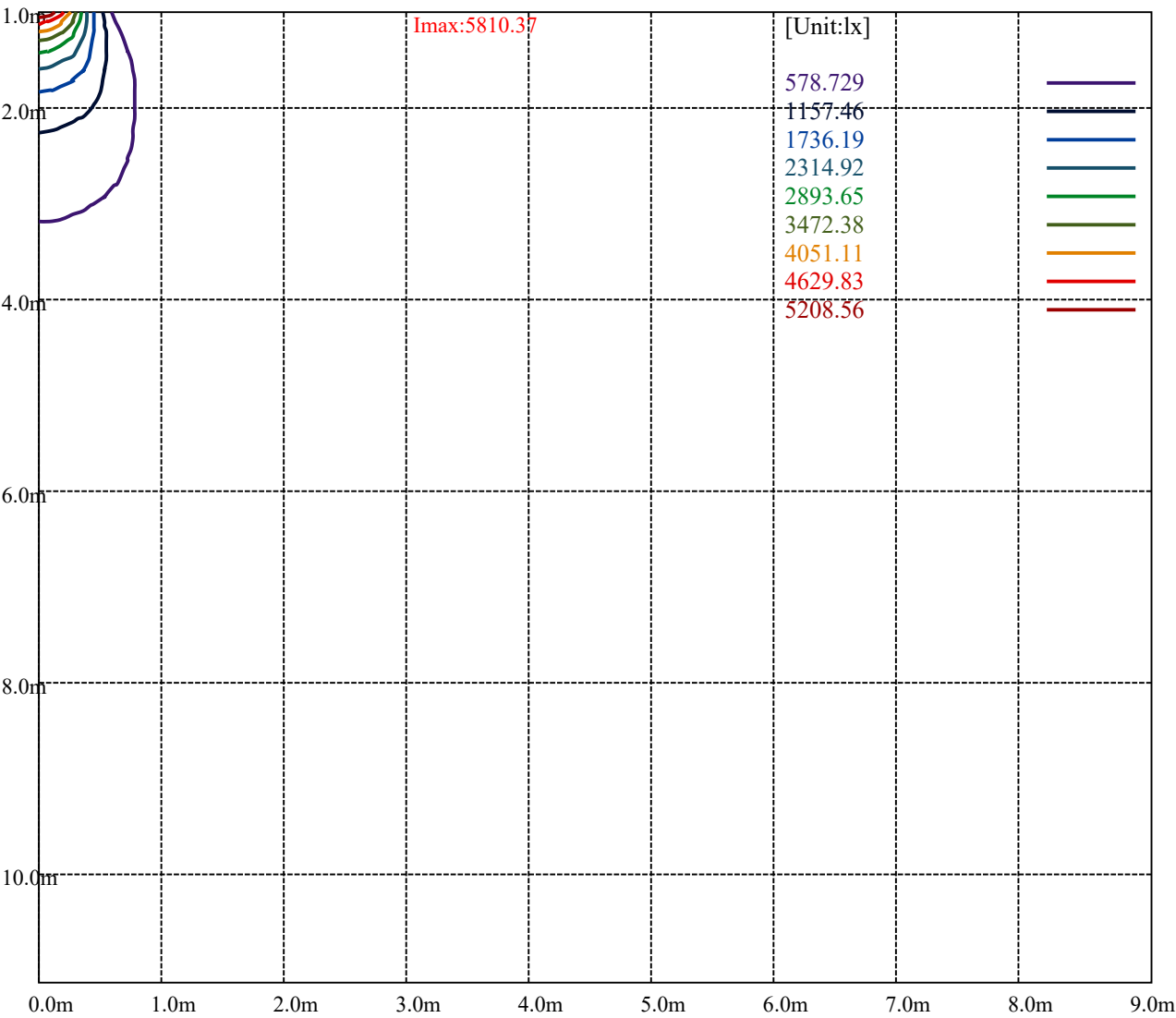
[Unit:cd]

Road

	Imax:5810.37	
(10%Imax)	580.861	—
(20%Imax)	1161.72	—
(30%Imax)	1742.58	—
(40%Imax)	2323.44	—
(50%Imax)	2904.3	—
(60%Imax)	3485.17	—
(70%Imax)	4066.03	—
(80%Imax)	4646.89	—
(90%Imax)	5227.75	—



(10%Emax)	144.2827	
(20%Emax)	288.565	
(30%Emax)	432.8475	
(40%Emax)	577.13	
(50%Emax)	721.415	
(60%Emax)	865.6975	
(70%Emax)	1009.98	
(80%Emax)	1154.262	
(90%Emax)	1298.545	



Luminance Limiting Curve(no luminous side)

Luminance Table

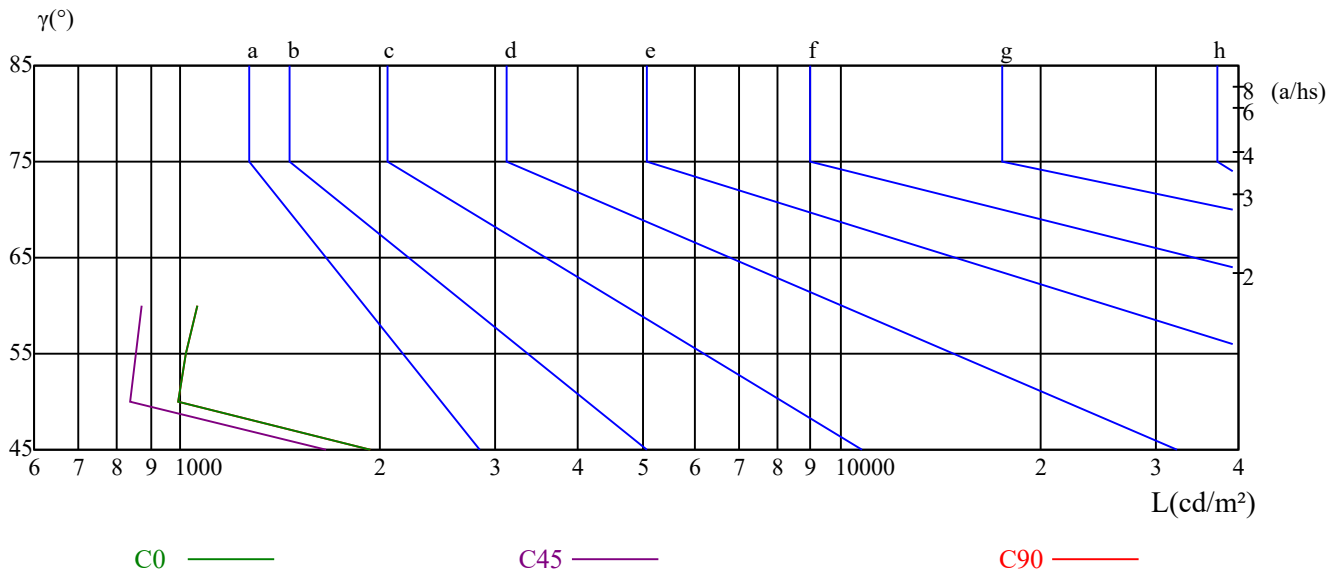
γ	45	50	55	60	65	70	75	80	85
C0	1933	989	1021	1064	0	0	0	0	0
C45	1665	839	853	874	0	0	0	0	0
C90	1933	989	1021	1064	0	0	0	0	0

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

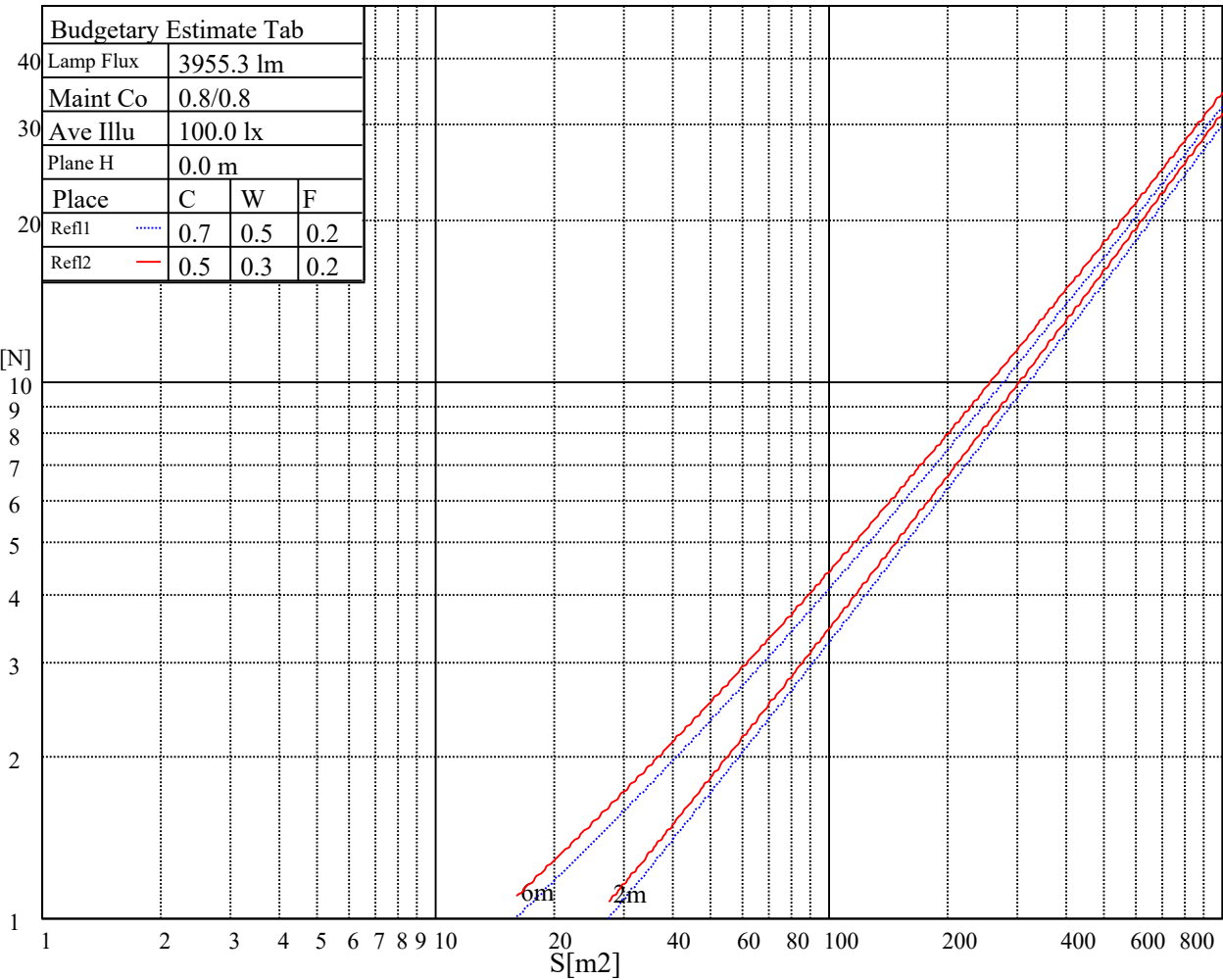
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

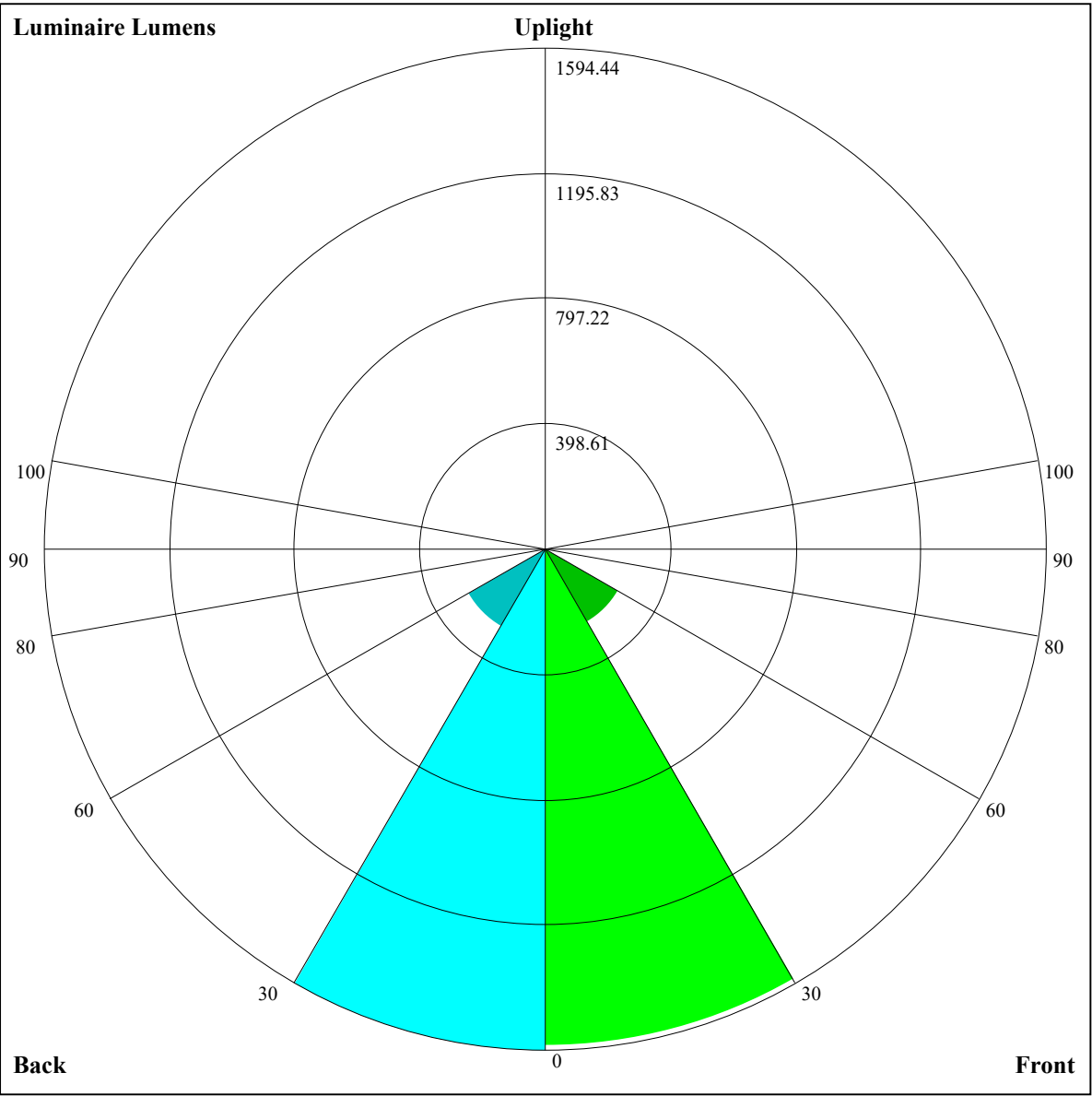


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.41	18.30	17.78	18.61	18.92	17.49	18.37	17.85	18.68	19.00
	3H	17.19	17.97	17.58	18.31	18.66	17.26	18.05	17.65	18.39	18.73
	4H	17.08	17.80	17.48	18.16	18.53	17.15	17.87	17.55	18.23	18.60
	6H	16.98	17.64	17.40	18.02	18.42	17.05	17.71	17.47	18.09	18.49
	8H	16.90	17.53	17.32	17.92	18.33	16.97	17.60	17.40	17.99	18.40
	12H	16.83	17.42	17.25	17.82	18.24	16.90	17.49	17.33	17.89	18.31
4H	2H	17.08	17.80	17.48	18.16	18.52	17.15	17.87	17.55	18.23	18.60
	3H	16.81	17.42	17.24	17.81	18.23	16.88	17.49	17.31	17.89	18.31
	4H	16.72	17.24	17.16	17.67	18.12	16.80	17.32	17.24	17.74	18.19
	6H	16.57	17.03	17.05	17.49	17.94	16.64	17.10	17.12	17.56	18.01
	8H	16.51	16.93	17.00	17.39	17.87	16.58	17.00	17.07	17.46	17.94
	12H	16.45	16.84	16.94	17.30	17.82	16.52	16.91	17.02	17.37	17.89
8H	4H	16.51	16.93	16.99	17.39	17.87	16.58	17.00	17.07	17.46	17.94
	6H	16.34	16.69	16.85	17.17	17.68	16.41	16.76	16.92	17.24	17.75
	8H	16.32	16.61	16.86	17.13	17.63	16.39	16.68	16.93	17.20	17.70
	12H	16.26	16.47	16.81	16.99	17.52	16.34	16.55	16.88	17.07	17.59
12H	4H	16.45	16.84	16.94	17.29	17.82	16.52	16.91	17.02	17.37	17.89
	6H	16.32	16.61	16.86	17.13	17.63	16.39	16.68	16.93	17.20	17.70
	8H	16.26	16.47	16.81	16.99	17.52	16.34	16.55	16.88	17.07	17.59
Variation with the observer position at spacings:											
S = 1.0H		6.3/-21.5					6.3/-21.3				
S = 1.5H		9.1/-21.7					9.1/-21.7				
S = 2.0H		11.1/-21.8					11.1/-21.8				
Standard tables:		BK0					BK0				
Uncorrected UGR		-1.8					-1.8				

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	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.80
4	0.88	0.83	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.81	0.79	0.77	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.74	0.70	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.66	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
10	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55



Luminaire Lumens:

FL=1579.1,FM=267.97,FH=1.72,FVH=0.3

BL=1594.44,BM=286.98,BH=1.8,BVH=0.32

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	5786.39	5786.39	5753.88	5731.50	5695.26	5619.59	5577.49	5509.81	5458.65
45.0	5772.53	5781.59	5800.78	5794.38	5777.86	5758.14	5727.77	5684.07	5622.79
90.0	5791.18	5809.30	5806.64	5795.98	5791.18	5738.96	5696.33	5632.91	5570.56
135.0	5772.53	5785.32	5800.78	5807.70	5810.37	5795.98	5760.81	5708.05	5638.77
180.0	5786.39	5775.20	5779.46	5791.72	5798.64	5794.38	5758.14	5715.51	5654.23
225.0	5772.53	5768.80	5779.99	5779.46	5757.08	5693.13	5661.69	5594.01	5517.27
270.0	5791.18	5773.07	5766.67	5770.40	5757.08	5733.10	5678.74	5633.98	5558.84
315.0	5772.53	5772.00	5768.80	5747.49	5723.51	5675.01	5618.52	5539.66	5465.05
360.0	5786.39	5786.39	5753.88	5731.50	5695.26	5619.59	5577.49	5509.81	5458.65
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5394.17	5323.30	5236.97	5141.05	5023.81	4895.91	4742.44	4572.44	4386.99
45.0	5559.91	5498.62	5424.55	5344.08	5243.90	5125.59	4986.51	4831.96	4662.50
90.0	5492.76	5410.16	5324.36	5223.11	5102.14	4959.33	4794.66	4618.80	4419.50
135.0	5561.50	5477.31	5388.84	5294.52	5185.28	5061.11	4931.62	4781.34	4615.07
180.0	5579.62	5505.55	5419.22	5319.03	5207.13	5094.68	4969.99	4829.30	4671.56
225.0	5440.00	5353.14	5254.02	5148.51	5031.80	4908.70	4761.62	4592.69	4412.04
270.0	5485.83	5412.83	5331.82	5255.09	5156.50	5043.53	4910.83	4828.77	4609.21
315.0	5401.63	5336.62	5267.34	5179.41	5070.70	4951.33	4816.51	4663.03	4486.64
360.0	5394.17	5323.30	5236.97	5141.05	5023.81	4895.91	4742.44	4572.44	4386.99
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4181.29	3957.48	3724.60	3493.85	3268.97	3053.68	2929.51	2722.75	2524.51
45.0	4469.59	4344.89	4125.87	3890.33	3646.79	3406.99	3168.78	2950.29	2743.00
90.0	4193.02	3960.14	3712.34	3468.81	3229.53	3008.91	2801.62	2676.92	2407.80
135.0	4418.43	4199.94	3968.13	3733.12	3493.32	3306.80	3087.25	2842.12	2688.64
180.0	4503.70	4361.41	4161.04	3898.86	3723.00	3494.92	3278.56	3069.66	2869.83
225.0	4226.59	4017.16	3801.34	3576.45	3394.73	3138.41	2934.84	2778.17	2554.35
270.0	4433.89	4324.11	4046.47	3918.04	3699.02	3475.73	3258.31	3046.75	2839.98
315.0	4370.47	4083.77	3951.08	3725.66	3414.98	3281.23	3064.33	2860.77	2667.32
360.0	4181.29	3957.48	3724.60	3493.85	3268.97	3053.68	2929.51	2722.75	2524.51
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2340.12	2137.09	1919.67	1692.65	1474.69	1011.28	1011.28	804.09	610.06
45.0	2539.43	2356.11	2167.46	1954.84	1738.48	1523.72	1314.82	1102.20	893.30
90.0	2299.09	2095.52	1879.70	1657.48	1441.12	1029.14	1029.14	824.08	627.92
135.0	2492.53	2311.35	2111.51	1890.36	1669.20	1446.98	1230.63	1022.79	819.23
180.0	2676.38	2484.01	2307.62	2097.12	1872.24	1649.49	1435.79	1219.44	997.75
225.0	2415.80	2239.94	2032.64	1813.62	1589.80	1266.86	1044.86	961.88	761.67
270.0	2646.01	2459.49	2285.77	2083.80	1871.70	1648.95	1428.86	1216.77	1009.47
315.0	2481.34	2304.42	2099.25	1877.57	1653.22	1431.53	967.37	967.37	846.78
360.0	2340.12	2137.09	1919.67	1692.65	1474.69	1011.28	1011.28	804.09	610.06
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	436.13	277.21	147.56	70.08	39.75	26.43	20.62	13.22	11.67
45.0	695.06	511.21	339.08	339.08	279.40	54.14	35.33	23.71	15.83
90.0	448.60	282.38	153.53	82.07	42.74	28.03	19.98	12.63	10.02
135.0	626.32	450.46	289.52	289.52	168.50	49.99	28.14	21.80	13.11
180.0	798.98	613.53	441.40	285.79	285.79	167.28	57.98	37.73	24.67
225.0	577.93	408.31	259.84	184.12	94.70	47.80	36.72	23.61	15.45
270.0	810.17	697.19	451.53	292.19	292.19	151.18	51.80	35.22	22.86
315.0	579.37	400.37	305.03	170.47	81.27	42.69	27.76	18.44	12.36
360.0	436.13	277.21	147.56	70.08	39.75	26.43	20.62	13.22	11.67

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	9.75	8.53	7.73	7.09	6.55	6.08	5.65	5.28	4.90
45.0	12.74	10.66	9.27	8.37	7.62	7.03	6.50	6.23	5.65
90.0	8.85	7.83	7.19	6.61	6.13	5.76	5.38	5.01	4.69
135.0	10.50	8.90	7.89	7.14	6.55	6.13	5.76	5.38	5.01
180.0	15.29	11.88	9.91	8.53	7.67	7.03	6.45	5.97	5.54
225.0	12.36	10.23	8.90	8.05	7.30	6.71	6.23	5.81	5.38
270.0	14.12	11.03	9.22	7.89	7.14	6.50	5.97	5.60	5.17
315.0	9.97	8.42	7.41	6.71	6.18	5.76	5.33	4.96	4.69
360.0	9.75	8.53	7.73	7.09	6.55	6.08	5.65	5.28	4.90

C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.53	4.21	3.89	3.73	3.41	3.20	3.04	2.77	2.50
45.0	5.22	5.06	4.53	4.37	4.10	3.78	3.52	3.30	3.09
90.0	4.37	4.05	3.84	3.57	3.36	3.09	2.88	2.72	2.56
135.0	4.74	4.42	4.16	3.84	3.62	3.46	3.20	2.98	2.82
180.0	5.17	4.90	4.48	4.16	3.94	3.68	3.46	3.25	2.98
225.0	5.01	4.64	4.32	4.00	3.73	3.52	3.30	3.09	2.82
270.0	4.80	4.42	4.16	4.00	3.68	3.41	3.20	2.98	2.77
315.0	4.32	4.00	3.84	3.52	3.20	3.09	2.88	2.66	2.45
360.0	4.53	4.21	3.89	3.73	3.41	3.20	3.04	2.77	2.50

C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.45	2.24	2.08	1.97	1.81	1.71	1.60	1.55	1.44
45.0	2.93	2.66	2.45	2.29	2.18	1.97	1.92	1.76	1.65
90.0	2.45	2.29	2.08	1.97	1.81	1.76	1.65	1.55	1.39
135.0	2.56	2.45	2.24	2.13	2.03	1.87	1.76	1.65	1.55
180.0	2.88	2.66	2.45	2.40	2.24	2.08	1.92	1.81	1.71
225.0	2.72	2.50	2.34	2.18	2.08	1.92	1.76	1.65	1.60
270.0	2.56	2.40	2.18	2.08	1.97	1.81	1.71	1.60	1.55
315.0	2.29	2.13	1.97	1.87	1.71	1.60	1.49	1.44	1.33
360.0	2.45	2.24	2.08	1.97	1.81	1.71	1.60	1.55	1.44

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.28	1.28	1.17	1.12	1.07	0.96	0.96	0.85	0.80
45.0	1.49	1.44	1.39	1.28	1.23	1.12	1.07	1.01	0.91
90.0	1.33	1.28	1.17	1.12	1.01	0.96	0.91	0.85	0.80
135.0	1.44	1.39	1.33	1.23	1.12	1.07	1.01	0.91	0.85
180.0	1.60	1.49	1.44	1.33	1.28	1.23	1.12	1.07	0.96
225.0	1.49	1.33	1.23	1.23	1.17	1.07	0.96	0.91	0.85
270.0	1.39	1.28	1.28	1.23	1.01	1.01	1.01	0.91	0.85
315.0	1.23	1.17	1.12	1.01	0.96	0.91	0.85	0.80	0.75
360.0	1.28	1.28	1.17	1.12	1.07	0.96	0.96	0.85	0.80

C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.75	0.69	0.64	0.59	0.59	0.53	0.48	0.43	0.37
45.0	0.85	0.80	0.75	0.69	0.64	0.53	0.53	0.48	0.32
90.0	0.75	0.69	0.64	0.59	0.53	0.53	0.43	0.37	0.32
135.0	0.75	0.75	0.69	0.64	0.64	0.59	0.53	0.48	0.32
180.0	0.91	0.85	0.80	0.75	0.69	0.59	0.59	0.53	0.43
225.0	0.75	0.75	0.64	0.64	0.53	0.48	0.43	0.37	0.27
270.0	0.85	0.69	0.64	0.64	0.59	0.43	0.43	0.37	0.32
315.0	0.69	0.59	0.53	0.53	0.48	0.43	0.37	0.32	0.27
360.0	0.75	0.69	0.64	0.59	0.59	0.53	0.48	0.43	0.37

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.37
45.0	0.32
90.0	0.32
135.0	0.37
180.0	0.32
225.0	0.21
270.0	0.21
315.0	0.21
360.0	0.37