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NT

Client: NT

LumCAT: 2-2827-L2

Luminaire: 92.70.411.00 LED HOLDER

Report No: 20250319-B002

Ballast type: AC

Test No: 20250319-C002

Voltage(V): 34.570

LampCAT: LUMILEDS LUXEON COB 1208 Current(A): 0.661

Lamp flux(lm): 3049.2 Power (W): 22.850

Number of Lamps: 1 PF: 0.000

Length(mm): 75 Width(mm): 75

Phm Type: C Height(mm): 52

Photometric Results

Lumens(lm): 2915.91, Efficiency(%): 95.63% , Luminous Efficacy(lm/W): 127.61

Central intensity(cd): 6219.830, Maximum intensity(cd): 6219.830

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.8

[C90/270]Total=37.3

Field angle(10%Imax): [C0/180]Total=66.9

[C90/270]Total=64.8

Maximum s/h(1/2): C0_180=0.64 C90_270=0.59

Maximum s/h(1/4): C0_180=0.67 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.61%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.352%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6216.026	0.000	0	0.00%	0.00%
1.0	6203.078	5.942	5.942	0.19%	0.20%
2.0	6167.233	17.755	23.697	0.58%	0.81%
3.0	6112.587	29.369	53.067	0.96%	1.82%
4.0	6030.071	40.645	93.712	1.33%	3.21%
5.0	5924.291	51.427	145.139	1.69%	4.98%
6.0	5805.271	61.642	206.781	2.02%	7.09%
7.0	5673.815	71.250	278.032	2.34%	9.53%
8.0	5518.438	80.101	358.132	2.63%	12.28%
9.0	5352.307	88.101	446.234	2.89%	15.30%
10.0	5179.153	95.306	541.54	3.13%	18.57%
11.0	4992.247	101.633	643.173	3.33%	22.06%
12.0	4797.733	107.019	750.191	3.51%	25.73%
13.0	4572.129	111.197	861.388	3.65%	29.54%
14.0	4340.599	114.082	975.47	3.74%	33.45%
15.0	4115.800	116.093	1091.563	3.81%	37.43%
16.0	3870.517	117.022	1208.585	3.84%	41.45%
17.0	3597.437	116.296	1324.881	3.81%	45.44%
18.0	3353.325	114.603	1439.484	3.76%	49.37%
19.0	3131.378	112.821	1552.305	3.70%	53.24%
20.0	2892.679	110.257	1662.562	3.62%	57.02%
21.0	2686.680	107.135	1769.697	3.51%	60.69%
22.0	2478.779	103.802	1873.499	3.40%	64.25%
23.0	2296.262	100.193	1973.692	3.29%	67.69%
24.0	2125.230	96.670	2070.362	3.17%	71.00%
25.0	1963.635	92.972	2163.334	3.05%	74.19%
26.0	1808.257	89.036	2252.37	2.92%	77.24%
27.0	1616.735	83.793	2336.163	2.75%	80.12%
28.0	1366.186	75.521	2411.684	2.48%	82.71%
29.0	1267.466	68.904	2480.588	2.26%	85.07%
30.0	1105.066	64.058	2544.646	2.10%	87.27%
31.0	945.526	57.065	2601.711	1.87%	89.22%
32.0	783.068	49.522	2651.233	1.62%	90.92%
33.0	629.073	41.602	2692.835	1.36%	92.35%
34.0	479.475	33.548	2726.383	1.10%	93.50%
35.0	352.327	25.833	2752.216	0.85%	94.39%
36.0	263.198	19.598	2771.814	0.64%	95.06%
37.0	217.938	15.692	2787.506	0.51%	95.60%

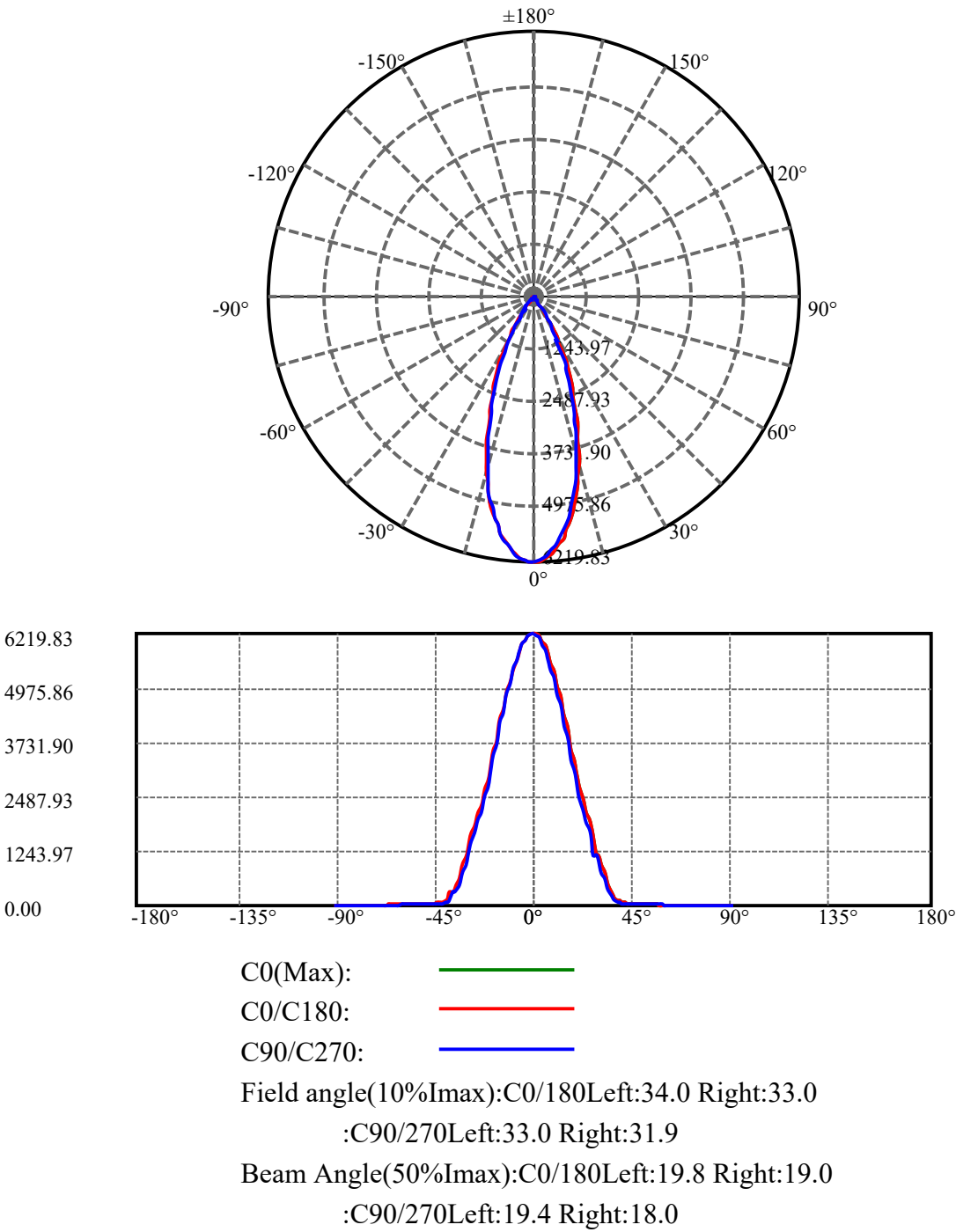
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	153.636	12.403	2799.909	0.41%	96.02%
39.0	96.599	8.541	2808.45	0.28%	96.31%
40.0	76.430	6.035	2814.485	0.20%	96.52%
41.0	63.021	4.966	2819.45	0.16%	96.69%
42.0	54.009	4.252	2823.702	0.14%	96.84%
43.0	47.520	3.761	2827.463	0.12%	96.97%
44.0	42.926	3.414	2830.877	0.11%	97.08%
45.0	39.276	3.159	2834.036	0.10%	97.19%
46.0	36.064	2.946	2836.983	0.10%	97.29%
47.0	33.160	2.753	2839.736	0.09%	97.39%
48.0	31.032	2.595	2842.331	0.09%	97.48%
49.0	29.159	2.472	2844.803	0.08%	97.56%
50.0	27.396	2.358	2847.161	0.08%	97.64%
51.0	25.852	2.253	2849.413	0.07%	97.72%
52.0	24.689	2.169	2851.582	0.07%	97.79%
53.0	23.716	2.106	2853.688	0.07%	97.87%
54.0	22.743	2.048	2855.736	0.07%	97.94%
55.0	21.939	1.995	2857.73	0.07%	98.00%
56.0	21.273	1.953	2859.683	0.06%	98.07%
57.0	20.695	1.919	2861.602	0.06%	98.14%
58.0	20.183	1.890	2863.492	0.06%	98.20%
59.0	19.737	1.866	2865.358	0.06%	98.27%
60.0	19.422	1.850	2867.208	0.06%	98.33%
61.0	19.108	1.839	2869.047	0.06%	98.39%
62.0	18.837	1.828	2870.875	0.06%	98.46%
63.0	18.537	1.818	2872.693	0.06%	98.52%
64.0	18.237	1.804	2874.497	0.06%	98.58%
65.0	17.930	1.790	2876.287	0.06%	98.64%
66.0	17.601	1.773	2878.06	0.06%	98.70%
67.0	17.213	1.751	2879.811	0.06%	98.76%
68.0	16.840	1.725	2881.536	0.06%	98.82%
69.0	16.467	1.699	2883.235	0.06%	98.88%
70.0	16.035	1.669	2884.904	0.05%	98.94%
71.0	15.735	1.642	2886.546	0.05%	98.99%
72.0	15.508	1.625	2888.171	0.05%	99.05%
73.0	15.326	1.612	2889.783	0.05%	99.10%
74.0	15.179	1.604	2891.387	0.05%	99.16%
75.0	15.018	1.596	2892.982	0.05%	99.21%

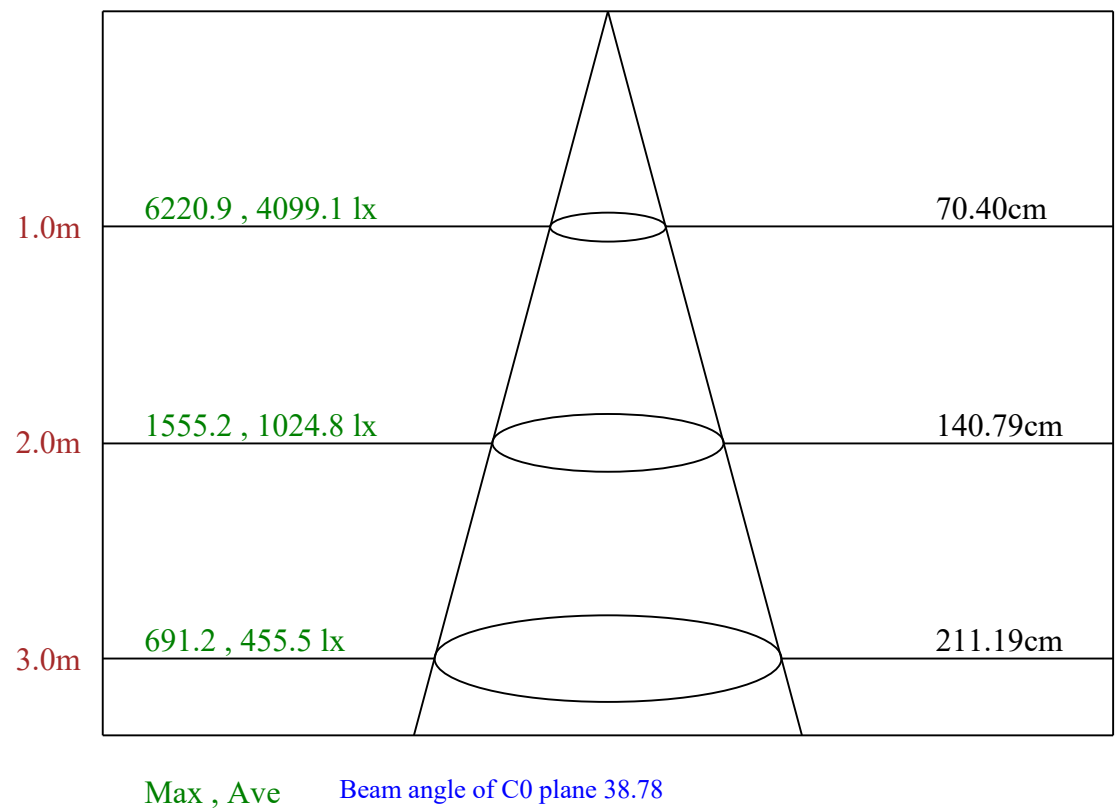
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.872	1.587	2894.569	0.05%	99.27%
77.0	14.755	1.580	2896.149	0.05%	99.32%
78.0	14.638	1.573	2897.722	0.05%	99.38%
79.0	14.514	1.566	2899.288	0.05%	99.43%
80.0	14.404	1.559	2900.847	0.05%	99.48%
81.0	14.301	1.552	2902.4	0.05%	99.54%
82.0	14.192	1.545	2903.945	0.05%	99.59%
83.0	14.097	1.538	2905.482	0.05%	99.64%
84.0	14.009	1.531	2907.014	0.05%	99.70%
85.0	13.855	1.521	2908.534	0.05%	99.75%
86.0	13.650	1.503	2910.038	0.05%	99.80%
87.0	13.475	1.485	2911.522	0.05%	99.85%
88.0	13.394	1.472	2912.994	0.05%	99.90%
89.0	13.263	1.461	2914.455	0.05%	99.95%
90.0	13.197	1.451	2915.906	0.05%	100.00%

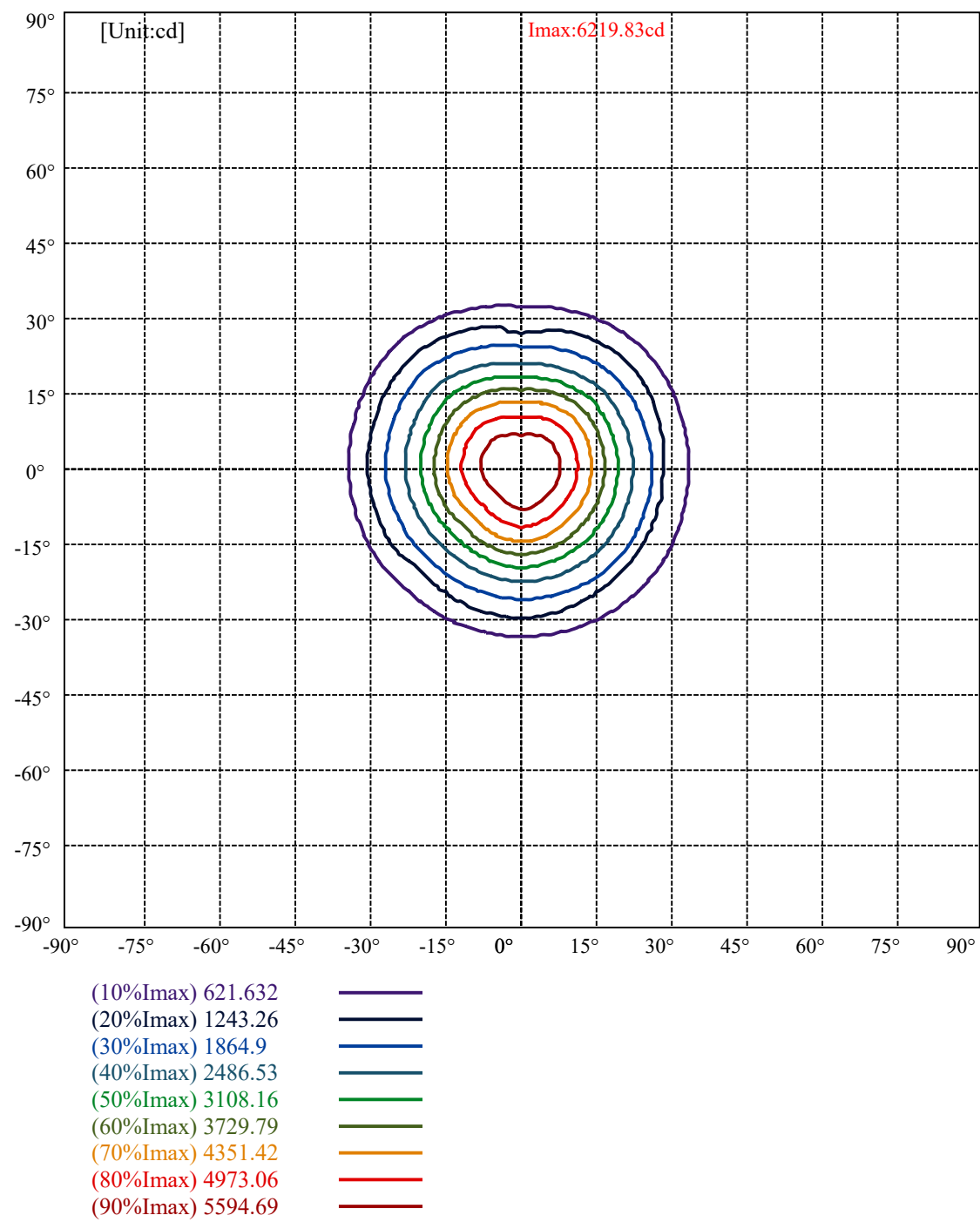
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2544.65	83.45%	87.27%
0-40	2814.48	92.30%	96.52%
0-60	2867.21	94.03%	98.33%
0-90	2914.46	95.58%	99.95%
0-120	2914.46	95.58%	99.95%
0-180	2915.91	95.63%	100.00%
60-90	47.25	1.55%	1.62%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.96	2332.73	76.50%	80.00%

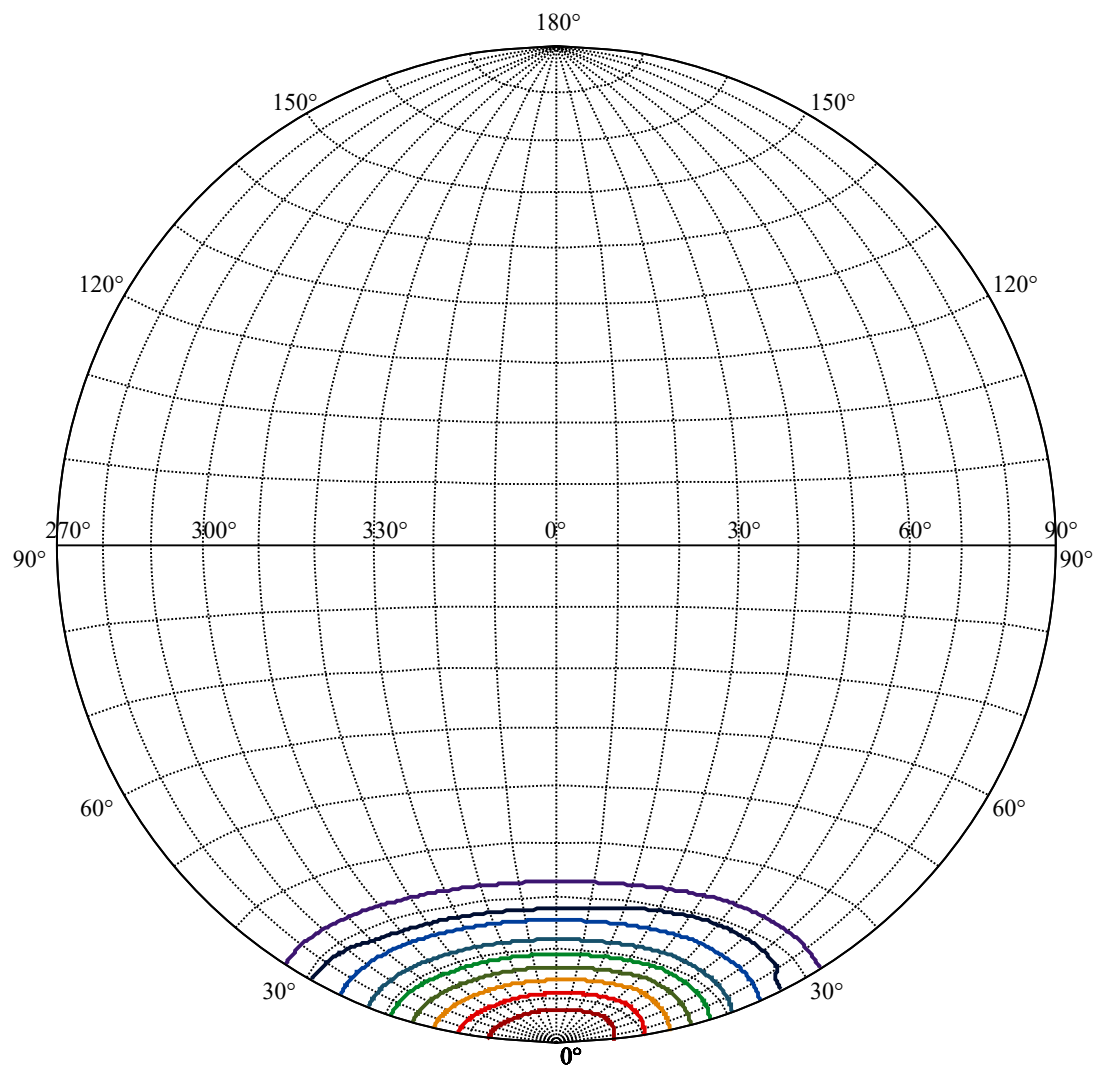
ZONAL LUMEN SUMMARY

0-10	541.54
10-20	1121.02
20-30	882.08
30-40	269.84
40-50	32.68
50-60	20.05
60-70	17.70
70-80	15.94
80-90	13.61
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









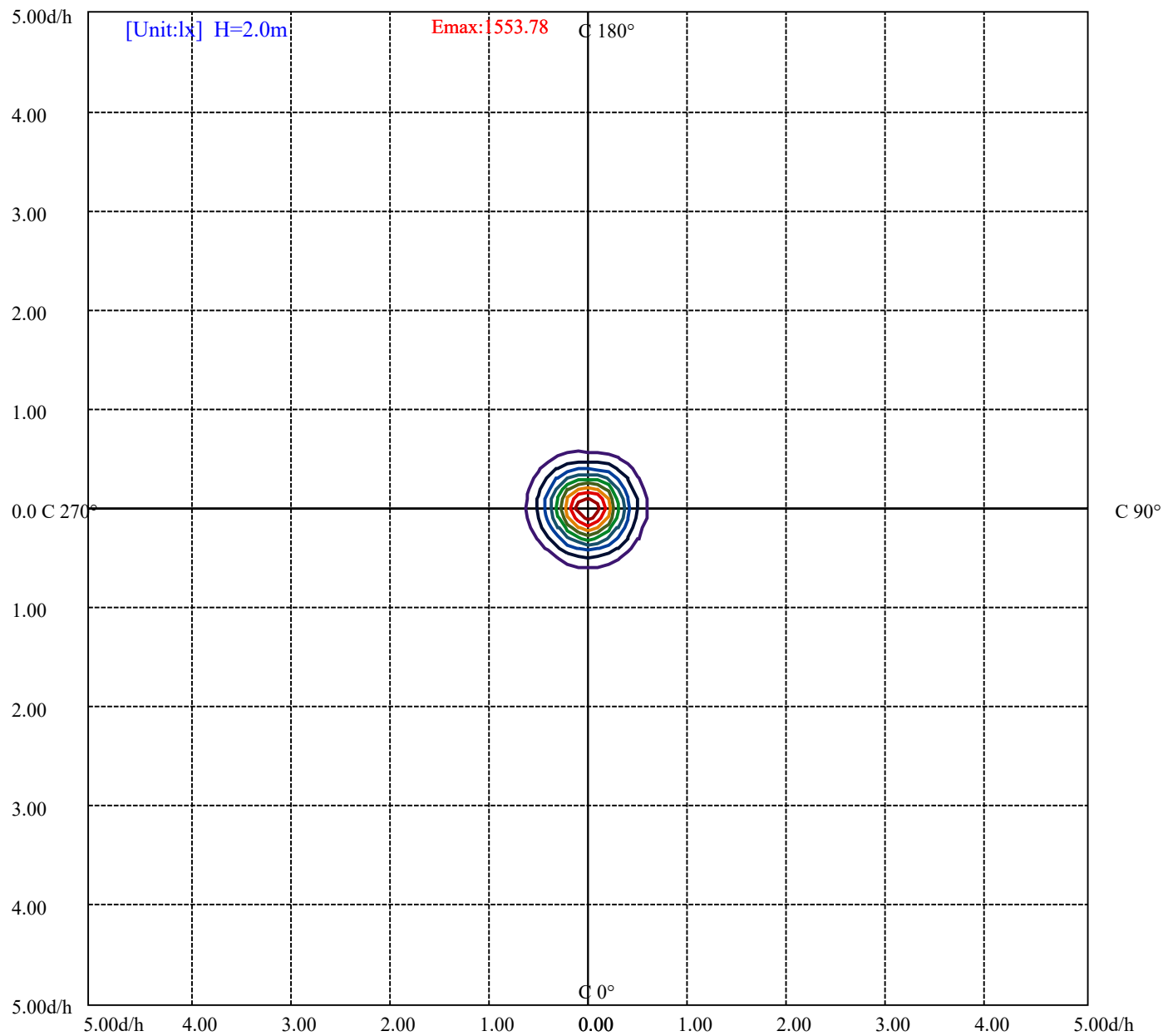
House

[Unit:cd]

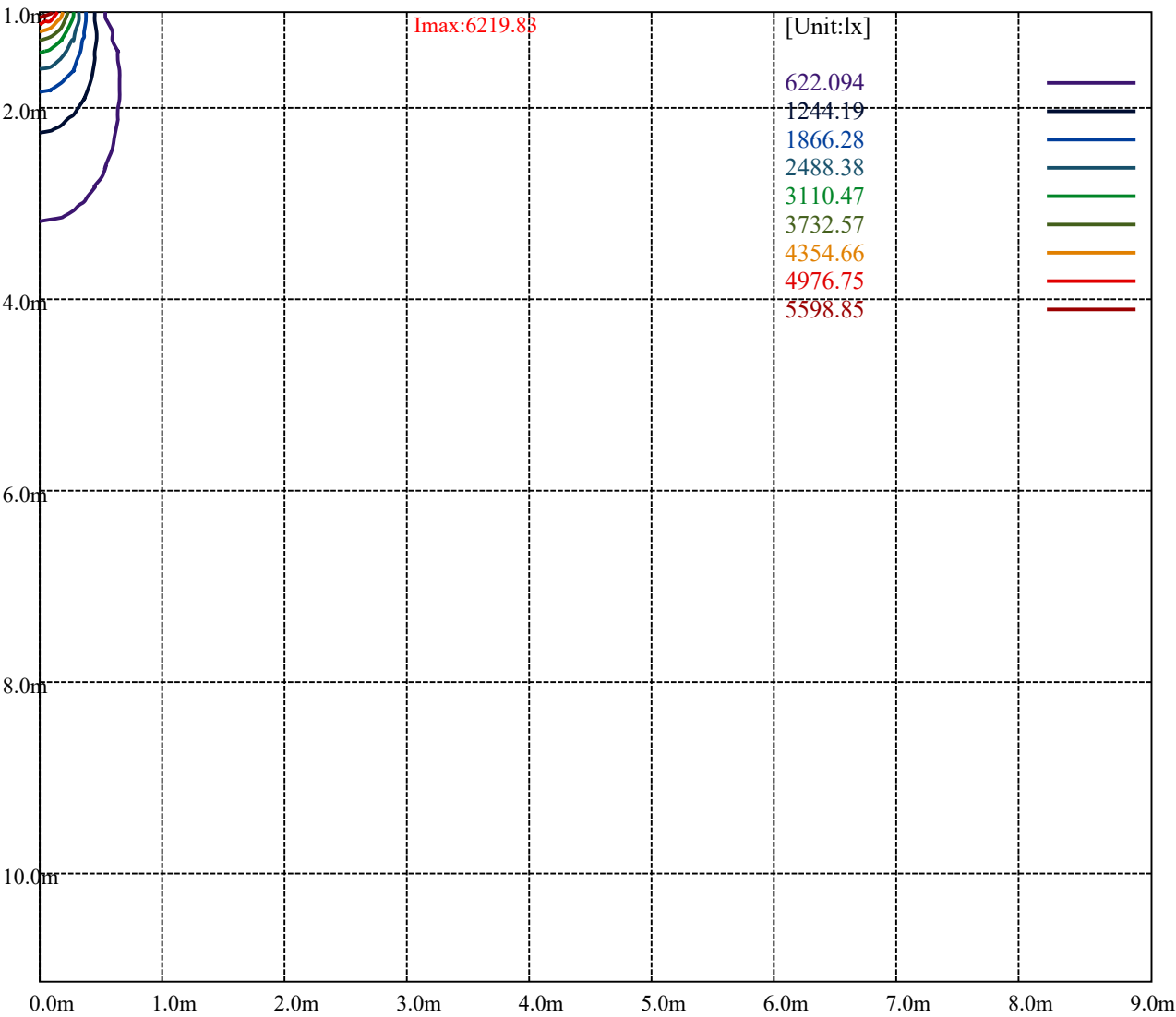
Road

Imax:6219.83

(10%Imax)	622.094	—
(20%Imax)	1244.19	—
(30%Imax)	1866.28	—
(40%Imax)	2488.38	—
(50%Imax)	3110.47	—
(60%Imax)	3732.57	—
(70%Imax)	4354.66	—
(80%Imax)	4976.75	—
(90%Imax)	5598.85	—



(10%Emax)	155.3772	
(20%Emax)	310.755	
(30%Emax)	466.1325	
(40%Emax)	621.51	
(50%Emax)	776.8875	
(60%Emax)	932.2625	
(70%Emax)	1087.64	
(80%Emax)	1243.017	
(90%Emax)	1398.395	



Luminance Table

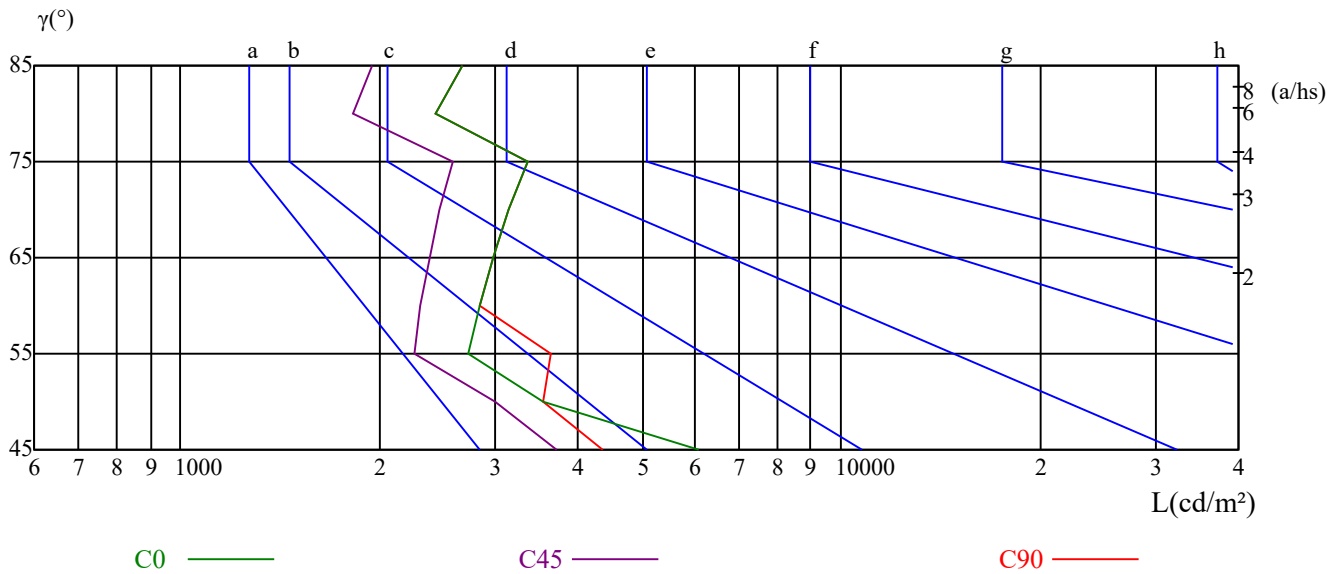
γ	45	50	55	60	65	70	75	80	85
C0	6082	3545	2734	2836	2970	3141	3361	2430	2675
C45	3715	2986	2267	2313	2380	2470	2588	1826	1956
C90	4345	3545	3646	2836	2970	3141	3361	2430	2675

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7385	7385	7385	12059	12059	11054	23875	23875	23875

Glare Table

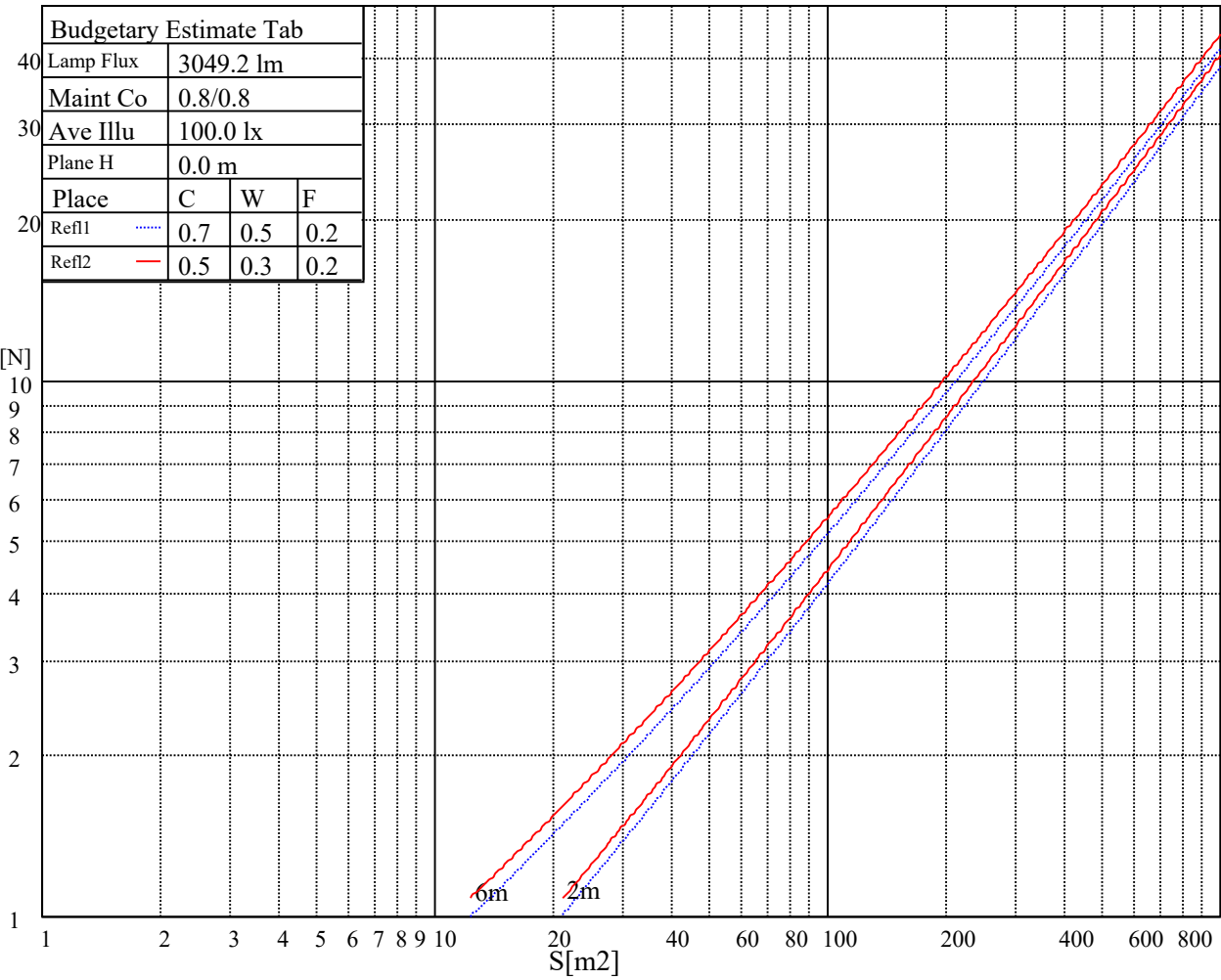
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

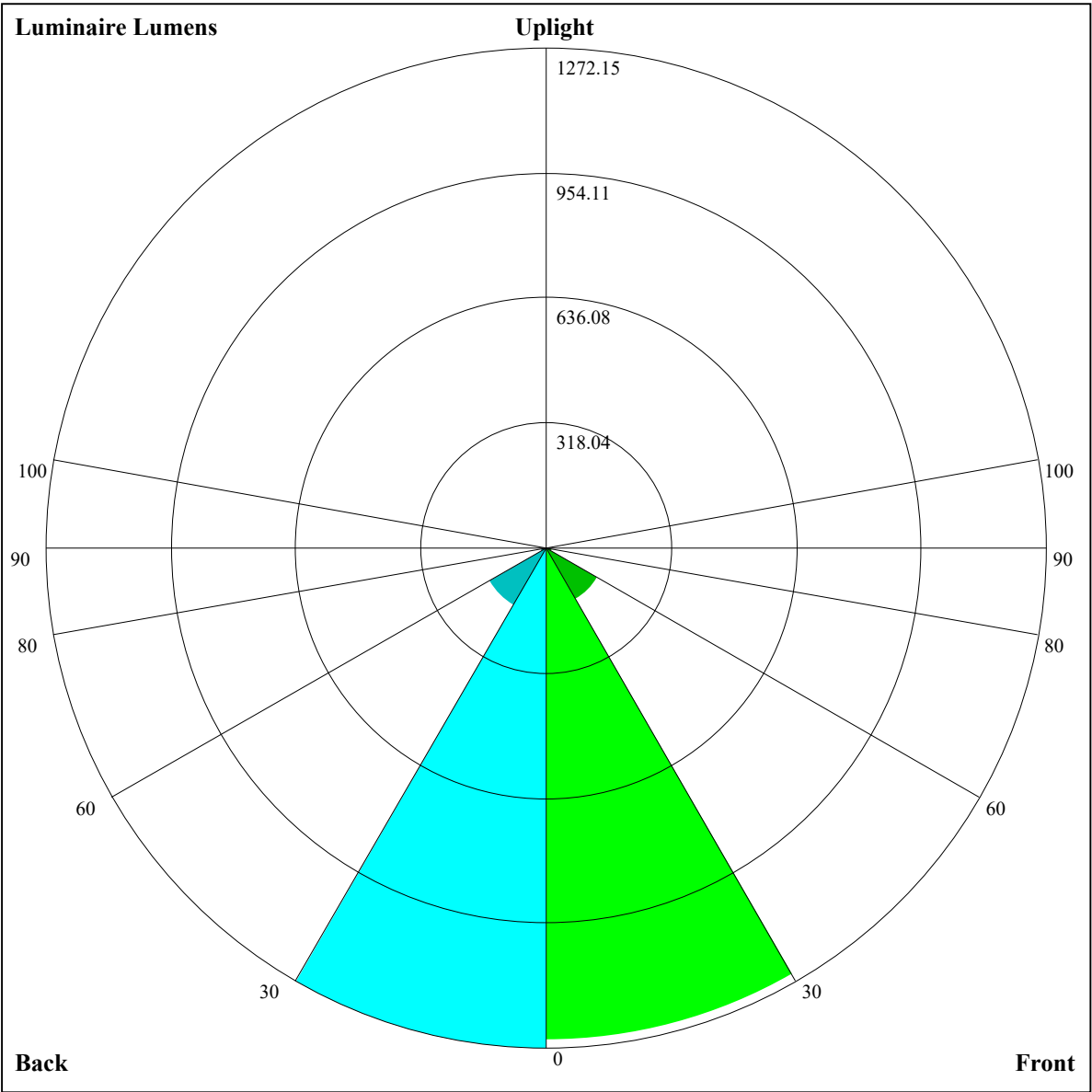


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.12	15.05	14.48	15.36	15.68	13.13	14.06	13.49	14.37	14.69
	3H	14.17	15.00	14.56	15.34	15.69	13.28	14.11	13.66	14.44	14.79
	4H	14.29	15.05	14.69	15.41	15.78	13.45	14.22	13.85	14.57	14.94
	6H	14.52	15.22	14.94	15.60	16.00	13.76	14.46	14.18	14.84	15.24
	8H	14.65	15.32	15.08	15.71	16.12	13.94	14.61	14.36	14.99	15.40
	12H	14.82	15.46	15.25	15.85	16.27	14.15	14.79	14.58	15.18	15.60
4H	2H	13.88	14.65	14.28	15.01	15.37	12.92	13.69	13.32	14.05	14.41
	3H	14.02	14.67	14.45	15.06	15.48	13.19	13.83	13.61	14.23	14.65
	4H	14.28	14.84	14.72	15.27	15.72	13.53	14.09	13.97	14.52	14.97
	6H	14.64	15.13	15.12	15.59	16.04	13.99	14.49	14.47	14.94	15.39
	8H	14.91	15.36	15.39	15.82	16.30	14.31	14.77	14.80	15.23	15.71
	12H	15.23	15.65	15.72	16.10	16.62	14.69	15.11	15.18	15.57	16.09
8H	4H	14.27	14.72	14.75	15.18	15.66	13.56	14.02	14.05	14.48	14.95
	6H	14.78	15.15	15.28	15.63	16.14	14.19	14.57	14.70	15.05	15.56
	8H	15.21	15.52	15.75	16.05	16.54	14.70	15.01	15.23	15.53	16.03
	12H	15.69	15.93	16.24	16.45	16.97	15.24	15.48	15.79	16.00	16.52
12H	4H	14.26	14.68	14.75	15.13	15.66	13.57	13.99	14.06	14.44	14.96
	6H	14.86	15.17	15.40	15.70	16.19	14.30	14.61	14.83	15.13	15.63
	8H	15.32	15.56	15.86	16.07	16.60	14.83	15.07	15.37	15.58	16.11
Variation with the observer position at spacings:											
S = 1.0H		5.3/-4.3					5.7/-5.0				
S = 1.5H		7.2/-3.3					7.7/-3.8				
S = 2.0H		8.5/-2.5					9.1/-3.1				
Standard tables:		BK3					BK3				
Uncorrected UGR		-3.4					-2.7				

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.04	1.02	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.85
3	0.95	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.81
4	0.90	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.70
7	0.77	0.72	0.69	0.77	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.67
8	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.64
9	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.61
10	0.68	0.63	0.60	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58



Luminaire Lumens:

FL=1251.54,FM=149.68,FH=16.33,FVH=7.51

BL=1272.15,BM=169.15,BH=17.26,BVH=7.55

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	6219.83	6201.10	6164.23	6110.39	6042.51	5930.14	5821.29	5694.30	5519.32
45.0	6212.22	6218.07	6194.08	6151.36	6087.57	5982.23	5875.13	5755.16	5588.96
90.0	6216.32	6184.13	6135.56	6066.50	5950.04	5836.51	5677.91	5536.29	5381.79
135.0	6215.73	6216.32	6197.01	6153.70	6074.11	5991.01	5862.84	5744.63	5621.73
180.0	6219.83	6215.73	6188.81	6140.24	6054.80	5968.77	5868.11	5718.88	5595.39
225.0	6212.22	6185.30	6119.76	6044.85	5953.55	5814.27	5686.69	5548.58	5397.59
270.0	6216.32	6215.73	6192.91	6148.43	6067.09	5979.89	5873.96	5748.14	5583.11
315.0	6215.73	6188.23	6145.51	6085.23	6010.90	5891.52	5776.23	5644.55	5459.62
360.0	6219.83	6201.10	6164.23	6110.39	6042.51	5930.14	5821.29	5694.30	5519.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5370.08	5162.33	4978.57	4785.44	4523.26	4307.90	4079.66	3839.72	3543.01
45.0	5440.31	5281.71	5107.32	4872.06	4670.15	4458.30	4237.09	3945.06	3701.02
90.0	5215.58	4992.61	4800.66	4597.00	4382.81	4105.41	3872.49	3629.62	3327.06
135.0	5443.82	5293.42	5131.31	4956.33	4720.48	4518.58	4306.73	4087.86	3797.58
180.0	5418.07	5264.74	5102.05	4921.80	4679.52	4471.76	4272.20	4052.16	3763.64
225.0	5197.44	5032.41	4851.57	4663.72	4414.41	4206.07	3930.43	3699.85	3466.35
270.0	5430.95	5272.35	5056.99	4868.55	4670.74	4407.97	4201.39	3915.21	3674.10
315.0	5302.20	5133.65	4909.51	4716.97	4515.65	4248.79	4026.41	3794.66	3506.73
360.0	5370.08	5162.33	4978.57	4785.44	4523.26	4307.90	4079.66	3839.72	3543.01

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3319.45	3105.26	2902.77	2706.14	2477.90	2308.19	2110.38	1969.93	1826.55
45.0	3400.22	3170.22	2947.84	2682.73	2486.68	2305.85	2136.71	1941.25	1799.63
90.0	3098.82	2879.37	2614.84	2420.55	2195.24	2030.20	1873.95	1737.01	1559.10
135.0	3566.42	3342.28	3083.02	2886.97	2700.29	2481.41	2318.72	2127.94	1987.48
180.0	3540.08	3315.36	3047.33	2849.52	2664.00	2450.98	2291.80	2143.74	1972.85
225.0	3179.59	2965.98	2759.39	2564.51	2341.54	2173.00	2018.50	1872.78	1697.21
270.0	3440.60	3206.51	2925.01	2712.58	2513.60	2329.25	2116.23	1957.64	1812.50
315.0	3281.42	3066.05	2861.22	2670.44	2450.98	2291.21	2135.54	1958.81	1810.74
360.0	3319.45	3105.26	2902.77	2706.14	2477.90	2308.19	2110.38	1969.93	1826.55

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1625.23	1162.02	1162.02	1080.74	919.56	764.89	617.35	444.30	322.17
45.0	1653.90	1488.87	1284.63	1127.79	972.12	786.02	644.39	511.55	354.70
90.0	1161.67	1161.67	1084.71	896.39	750.32	610.92	482.05	335.45	234.21
135.0	1848.20	1688.43	1518.72	1312.13	1148.27	987.33	793.04	646.15	509.20
180.0	1830.06	1670.88	1498.82	1282.29	1114.91	952.22	794.21	612.20	479.36
225.0	1536.27	1154.06	1154.06	991.61	833.36	646.67	510.55	387.83	253.87
270.0	1671.46	1475.41	1308.62	1104.38	944.61	791.87	611.62	481.70	362.90
315.0	1607.09	1128.14	1128.14	1045.21	881.06	724.63	579.37	416.62	302.21
360.0	1625.23	1162.02	1162.02	1080.74	919.56	764.89	617.35	444.30	322.17

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	223.50	161.35	124.13	98.32	77.95	64.73	54.95	49.22	43.31
45.0	297.94	297.94	97.15	75.90	57.41	46.23	38.39	34.76	32.01
90.0	153.33	100.01	80.12	63.61	50.10	43.95	39.80	35.35	32.42
135.0	383.97	301.45	301.45	146.48	115.58	94.34	79.47	67.42	60.63
180.0	358.80	306.13	306.13	142.33	113.12	93.05	78.89	67.24	60.63
225.0	167.84	112.42	87.90	66.48	54.13	46.29	41.32	37.16	34.59
270.0	309.06	309.06	105.63	83.57	66.83	51.56	44.71	40.03	36.46
315.0	211.15	155.14	126.58	96.09	76.31	64.02	54.54	48.98	43.37
360.0	223.50	161.35	124.13	98.32	77.95	64.73	54.95	49.22	43.31

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	39.33	35.93	32.30	29.90	27.92	25.75	24.29	23.06	22.06
45.0	29.79	27.51	25.93	24.58	23.29	22.06	21.19	20.31	19.72
90.0	30.08	28.38	26.69	25.46	24.52	23.70	22.77	22.12	21.54
135.0	55.01	49.04	44.95	41.43	38.33	34.94	32.60	30.61	28.97
180.0	55.19	50.56	45.53	42.08	39.09	36.52	33.59	31.72	30.02
225.0	32.54	30.37	28.91	27.62	26.22	25.34	24.40	23.76	23.23
270.0	32.71	30.49	28.27	26.86	25.69	24.46	23.58	22.82	22.24
315.0	39.56	36.23	32.71	30.31	28.21	26.39	24.40	23.12	21.95
360.0	39.33	35.93	32.30	29.90	27.92	25.75	24.29	23.06	22.06
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.13	20.19	19.49	18.96	18.38	18.02	17.79	17.56	17.32
45.0	19.08	18.67	18.32	17.97	17.62	17.32	17.15	17.09	17.03
90.0	21.01	20.54	20.07	19.72	19.43	19.20	18.96	18.79	18.55
135.0	27.27	25.98	24.76	23.88	23.00	22.12	21.59	21.07	20.60
180.0	28.21	26.98	25.93	24.76	23.94	23.12	22.59	22.00	21.54
225.0	22.71	22.18	21.77	21.42	21.13	20.83	20.48	20.19	19.96
270.0	21.54	21.07	20.72	20.37	20.01	19.72	19.49	19.14	18.84
315.0	21.01	19.90	19.14	18.49	17.97	17.56	17.32	17.03	16.85
360.0	21.13	20.19	19.49	18.96	18.38	18.02	17.79	17.56	17.32
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.09	16.97	16.80	16.68	16.44	16.21	15.92	15.74	15.57
45.0	17.03	16.97	16.91	16.80	16.62	16.39	16.09	15.80	15.51
90.0	18.38	17.97	17.73	17.38	16.85	16.44	16.09	15.74	15.51
135.0	20.07	19.61	19.14	18.67	18.08	17.67	17.21	16.56	16.15
180.0	20.95	20.48	19.96	19.43	18.84	18.38	17.85	17.21	16.74
225.0	19.49	19.14	18.61	18.14	17.73	17.09	16.62	16.15	15.74
270.0	18.67	18.32	18.02	17.56	17.21	16.80	16.44	15.86	15.57
315.0	16.62	16.44	16.27	16.15	15.92	15.74	15.51	15.22	15.10
360.0	17.09	16.97	16.80	16.68	16.44	16.21	15.92	15.74	15.57
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.39	15.27	15.16	15.04	14.92	14.81	14.75	14.63	14.51
45.0	15.39	15.22	15.10	14.92	14.81	14.69	14.57	14.46	14.34
90.0	15.39	15.22	15.04	14.86	14.75	14.63	14.51	14.40	14.34
135.0	15.74	15.51	15.33	15.10	14.92	14.81	14.69	14.51	14.40
180.0	16.33	15.98	15.80	15.63	15.45	15.27	15.16	14.98	14.81
225.0	15.51	15.39	15.22	15.10	14.86	14.81	14.63	14.51	14.46
270.0	15.39	15.22	15.10	14.92	14.81	14.69	14.57	14.46	14.34
315.0	14.92	14.81	14.69	14.57	14.46	14.34	14.22	14.16	14.05
360.0	15.39	15.27	15.16	15.04	14.92	14.81	14.75	14.63	14.51
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.40	14.28	14.22	14.10	13.99	13.69	13.58	13.52	13.28
45.0	14.28	14.16	14.05	13.99	13.87	13.75	13.52	13.46	13.34
90.0	14.22	14.10	13.99	13.93	13.81	13.58	13.40	13.34	13.23
135.0	14.28	14.16	14.05	13.99	13.81	13.69	13.40	13.34	13.23
180.0	14.69	14.57	14.46	14.34	14.16	13.81	13.64	13.52	13.40
225.0	14.34	14.22	14.10	14.05	13.75	13.58	13.46	13.40	13.28
270.0	14.22	14.16	14.10	13.99	13.87	13.69	13.52	13.40	13.28
315.0	13.99	13.87	13.81	13.69	13.58	13.40	13.28	13.17	13.05
360.0	14.40	14.28	14.22	14.10	13.99	13.69	13.58	13.52	13.28

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	13.23
45.0	13.28
90.0	13.23
135.0	13.11
180.0	13.23
225.0	13.28
270.0	13.17
315.0	13.05
360.0	13.23