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NT

Client: NT

LumCAT: 2-2885-L

Luminaire: 90.70.412.00 LED HOLDER

Report No: 20250321-B007

Ballast type: AC

Test No: 20250321-C007

Voltage(V): 35.720

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): 2237.64, Efficiency(%): 93.59% , Luminous Efficacy(lm/W): 104.61

Central intensity(cd): 5189.541, Maximum intensity(cd): 5223.113

Angle of maximum intensity: C=180.0 γ =2.0

Beam Angle(50%Imax): [C0/180]Total=36.7

[C90/270]Total=37.1

Field angle(10%Imax): [C0/180]Total=65.6

[C90/270]Total=65.8

Maximum s/h(1/2): C0_180=0.67 C90_270=0.56

Maximum s/h(1/4): C0_180=0.66 C90_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.55%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.746%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5206.993	0.000	0	0.00%	0.00%
1.0	5198.133	4.979	4.979	0.21%	0.22%
2.0	5162.162	14.870	19.849	0.62%	0.89%
3.0	5100.413	24.545	44.393	1.03%	1.98%
4.0	5021.410	33.881	78.274	1.42%	3.50%
5.0	4932.349	42.821	121.095	1.79%	5.41%
6.0	4819.841	51.250	172.345	2.14%	7.70%
7.0	4693.677	59.050	231.396	2.47%	10.34%
8.0	4566.580	66.274	297.669	2.77%	13.30%
9.0	4409.041	72.743	370.412	3.04%	16.55%
10.0	4256.699	78.422	448.834	3.28%	20.06%
11.0	4080.975	83.310	532.144	3.48%	23.78%
12.0	3895.992	87.200	619.344	3.65%	27.68%
13.0	3707.812	90.238	709.582	3.77%	31.71%
14.0	3505.576	92.331	801.913	3.86%	35.84%
15.0	3314.931	93.635	895.548	3.92%	40.02%
16.0	3109.631	94.138	989.685	3.94%	44.23%
17.0	2919.919	93.896	1083.582	3.93%	48.43%
18.0	2709.956	92.824	1176.406	3.88%	52.57%
19.0	2506.722	90.760	1267.166	3.80%	56.63%
20.0	2282.238	87.651	1354.817	3.67%	60.55%
21.0	2072.475	83.619	1438.436	3.50%	64.28%
22.0	1886.493	79.557	1517.993	3.33%	67.84%
23.0	1688.720	75.018	1593.011	3.14%	71.19%
24.0	1501.726	69.755	1662.766	2.92%	74.31%
25.0	1314.338	64.031	1726.797	2.68%	77.17%
26.0	1215.199	59.710	1786.507	2.50%	79.84%
27.0	1084.352	56.259	1842.766	2.35%	82.35%
28.0	987.464	52.454	1895.22	2.19%	84.70%
29.0	882.236	48.917	1944.136	2.05%	86.88%
30.0	778.394	44.837	1988.973	1.88%	88.89%
31.0	683.191	40.674	2029.647	1.70%	90.70%
32.0	591.253	36.511	2066.158	1.53%	92.34%
33.0	500.700	32.169	2098.327	1.35%	93.77%
34.0	418.193	27.808	2126.136	1.16%	95.02%
35.0	343.687	23.661	2149.797	0.99%	96.07%
36.0	271.979	19.603	2169.4	0.82%	96.95%
37.0	197.919	15.325	2184.725	0.64%	97.64%

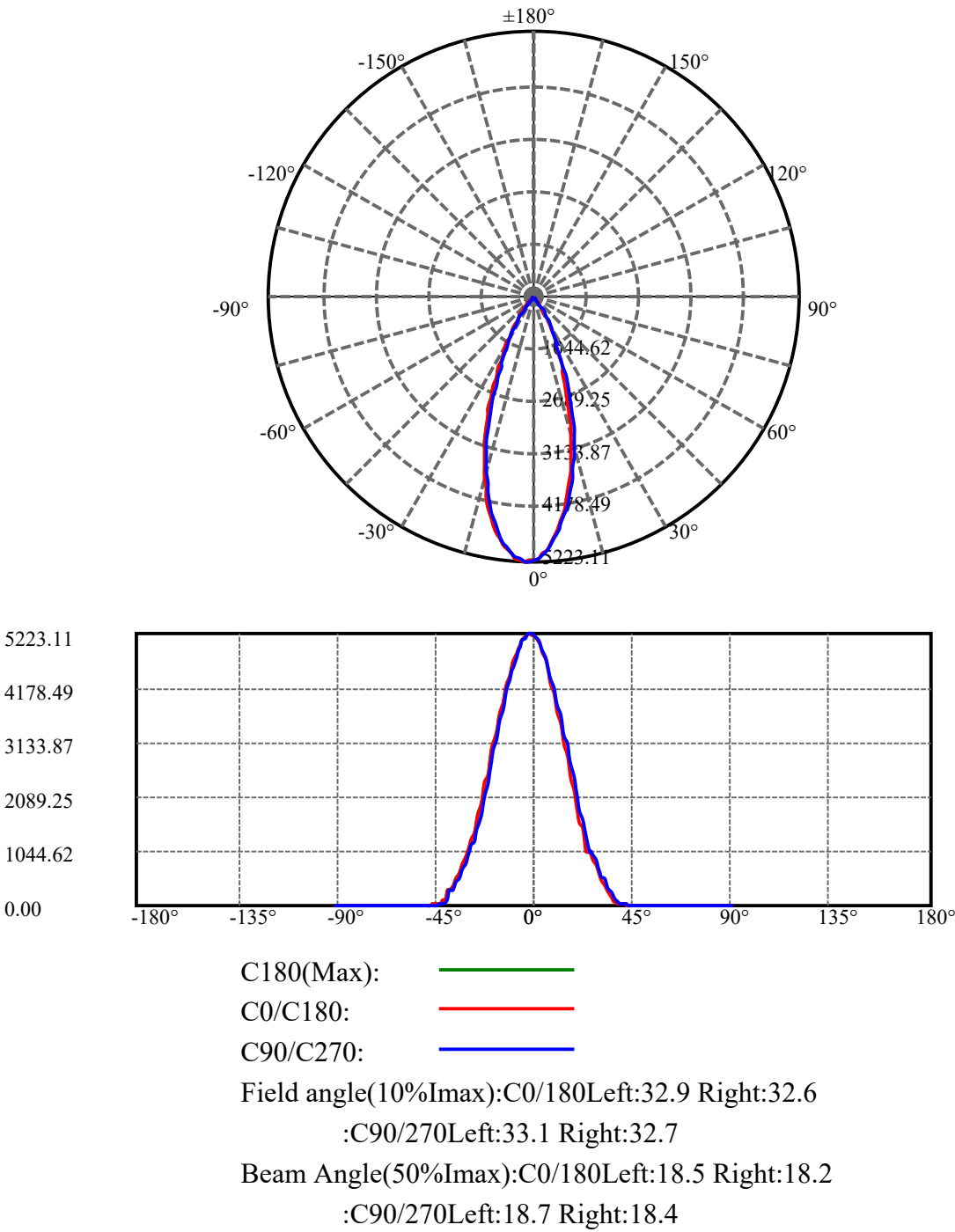
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	161.362	11.992	2196.718	0.50%	98.17%
39.0	97.214	8.826	2205.544	0.37%	98.57%
40.0	53.203	5.246	2210.79	0.22%	98.80%
41.0	32.887	3.066	2213.855	0.13%	98.94%
42.0	22.768	2.022	2215.877	0.08%	99.03%
43.0	18.691	1.536	2217.413	0.06%	99.10%
44.0	16.660	1.334	2218.747	0.06%	99.16%
45.0	15.041	1.218	2219.966	0.05%	99.21%
46.0	13.676	1.123	2221.089	0.05%	99.26%
47.0	12.443	1.039	2222.127	0.04%	99.31%
48.0	11.424	0.965	2223.092	0.04%	99.35%
49.0	10.485	0.900	2223.992	0.04%	99.39%
50.0	9.606	0.838	2224.83	0.04%	99.43%
51.0	8.859	0.781	2225.611	0.03%	99.46%
52.0	8.180	0.731	2226.342	0.03%	99.50%
53.0	7.620	0.687	2227.029	0.03%	99.53%
54.0	7.068	0.647	2227.677	0.03%	99.55%
55.0	6.621	0.611	2228.288	0.03%	99.58%
56.0	6.242	0.581	2228.869	0.02%	99.61%
57.0	5.895	0.555	2229.424	0.02%	99.63%
58.0	5.569	0.530	2229.954	0.02%	99.66%
59.0	5.269	0.507	2230.461	0.02%	99.68%
60.0	4.996	0.485	2230.946	0.02%	99.70%
61.0	4.749	0.465	2231.411	0.02%	99.72%
62.0	4.536	0.447	2231.858	0.02%	99.74%
63.0	4.316	0.431	2232.289	0.02%	99.76%
64.0	4.110	0.413	2232.702	0.02%	99.78%
65.0	3.884	0.396	2233.098	0.02%	99.80%
66.0	3.717	0.379	2233.477	0.02%	99.81%
67.0	3.477	0.362	2233.839	0.02%	99.83%
68.0	3.284	0.342	2234.181	0.01%	99.85%
69.0	3.058	0.324	2234.505	0.01%	99.86%
70.0	2.858	0.304	2234.809	0.01%	99.87%
71.0	2.651	0.285	2235.093	0.01%	99.89%
72.0	2.425	0.264	2235.357	0.01%	99.90%
73.0	2.212	0.242	2235.6	0.01%	99.91%
74.0	1.992	0.221	2235.821	0.01%	99.92%
75.0	1.785	0.200	2236.02	0.01%	99.93%

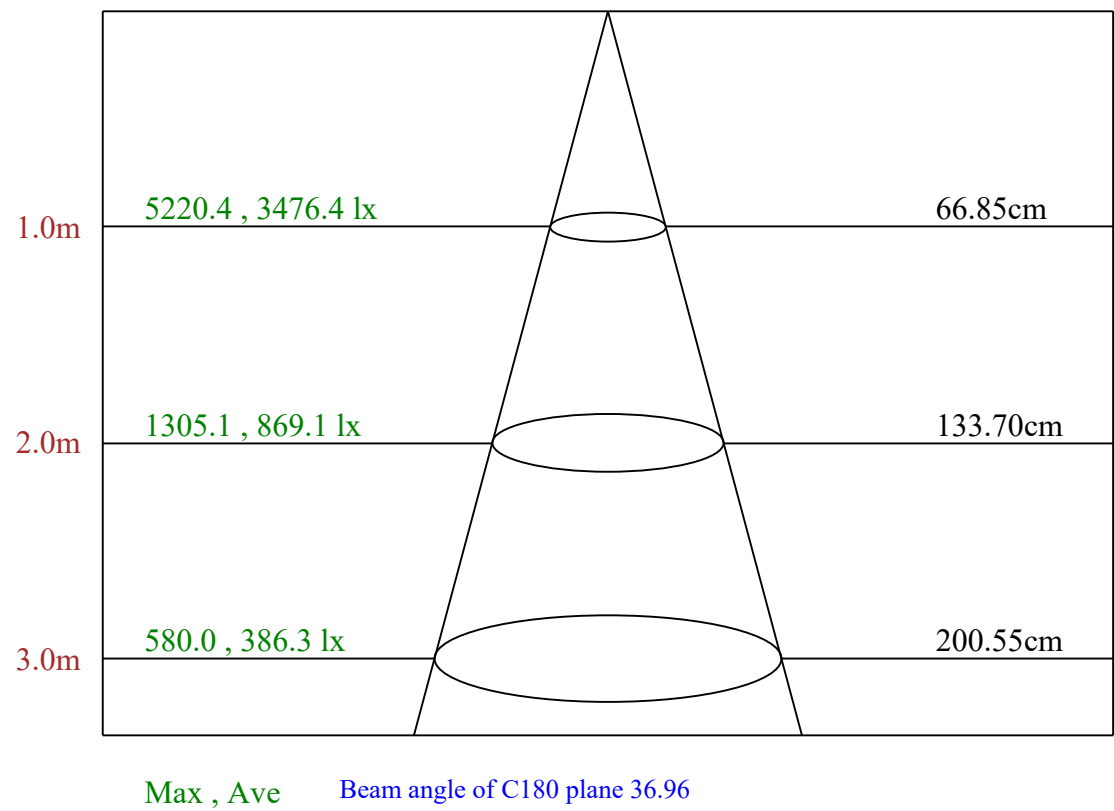
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.612	0.180	2236.201	0.01%	99.94%
77.0	1.505	0.166	2236.367	0.01%	99.94%
78.0	1.392	0.155	2236.522	0.01%	99.95%
79.0	1.299	0.145	2236.666	0.01%	99.96%
80.0	1.206	0.135	2236.802	0.01%	99.96%
81.0	1.112	0.125	2236.927	0.01%	99.97%
82.0	1.019	0.116	2237.042	0.00%	99.97%
83.0	0.919	0.105	2237.148	0.00%	99.98%
84.0	0.839	0.096	2237.244	0.00%	99.98%
85.0	0.726	0.085	2237.329	0.00%	99.99%
86.0	0.673	0.076	2237.406	0.00%	99.99%
87.0	0.586	0.069	2237.474	0.00%	99.99%
88.0	0.526	0.061	2237.535	0.00%	100.00%
89.0	0.466	0.054	2237.59	0.00%	100.00%
90.0	0.406	0.048	2237.638	0.00%	100.00%

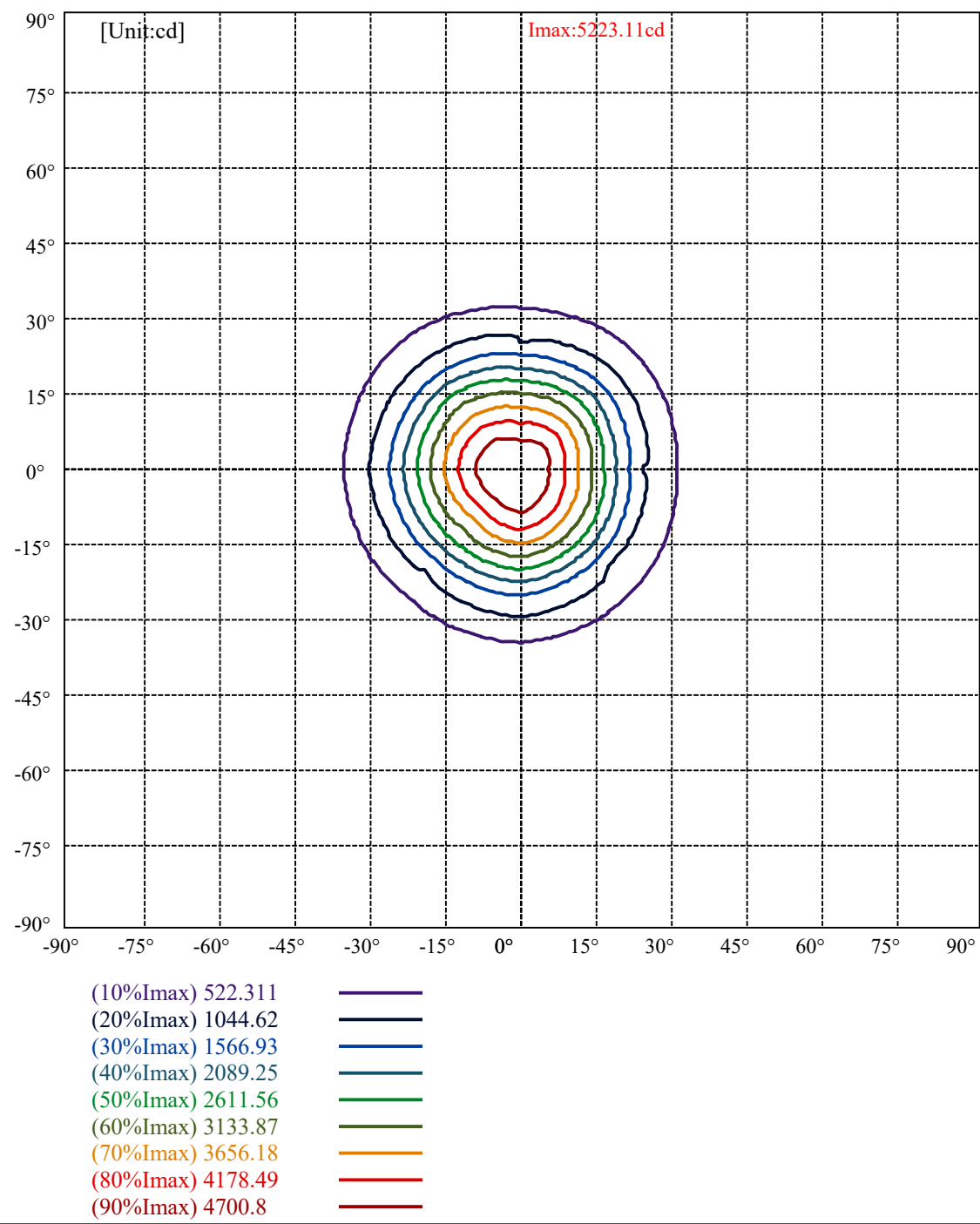
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1988.97	83.19%	88.89%
0-40	2210.79	92.47%	98.80%
0-60	2230.95	93.31%	99.70%
0-90	2237.59	93.59%	100.00%
0-120	2237.59	93.59%	100.00%
0-180	2237.64	93.59%	100.00%
60-90	6.64	0.28%	0.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.06	1790.11	74.87%	80.00%

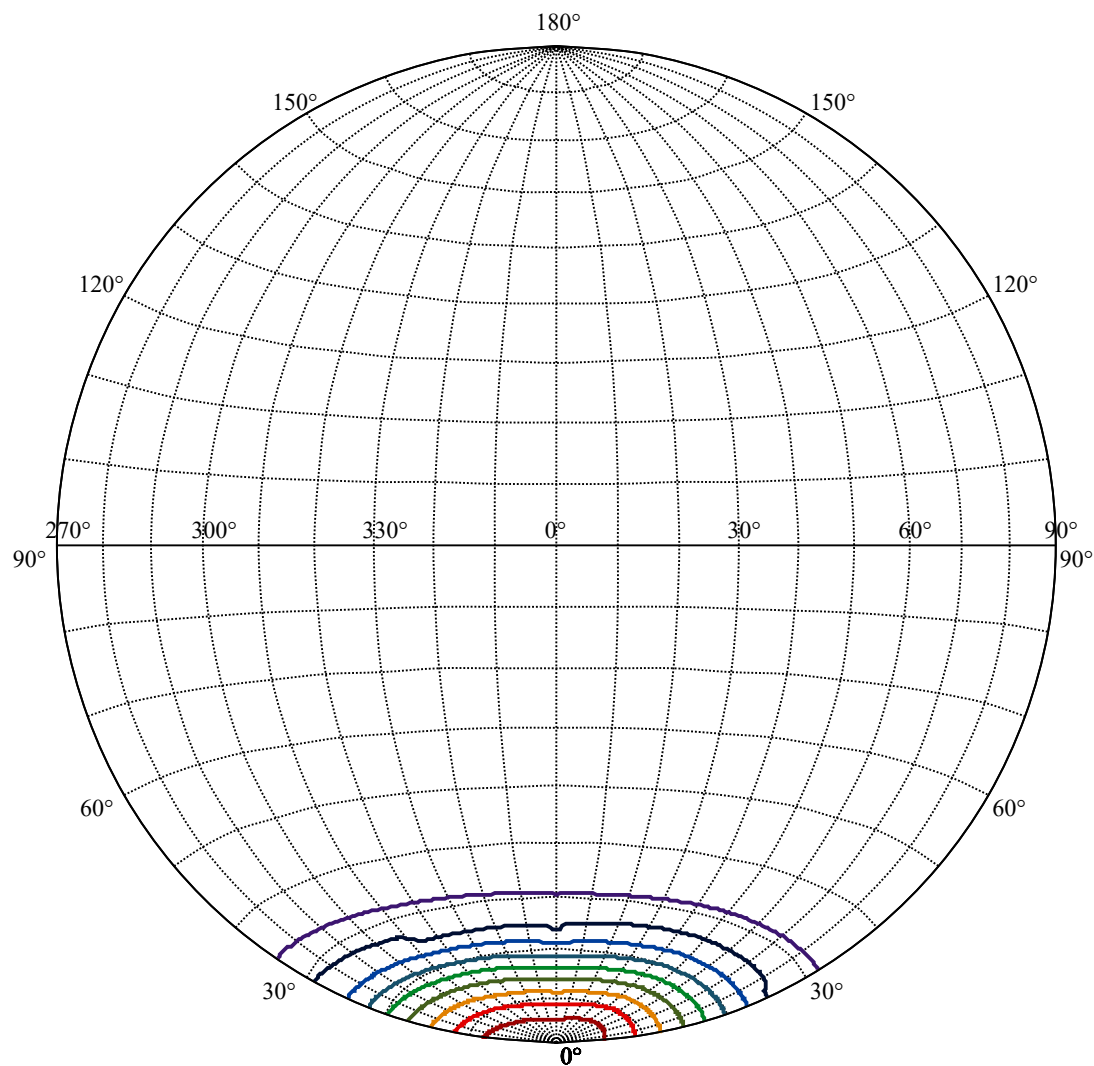
ZONAL LUMEN SUMMARY

0-10	448.83
10-20	905.98
20-30	634.16
30-40	221.82
40-50	14.04
50-60	6.12
60-70	3.86
70-80	1.99
80-90	0.79
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







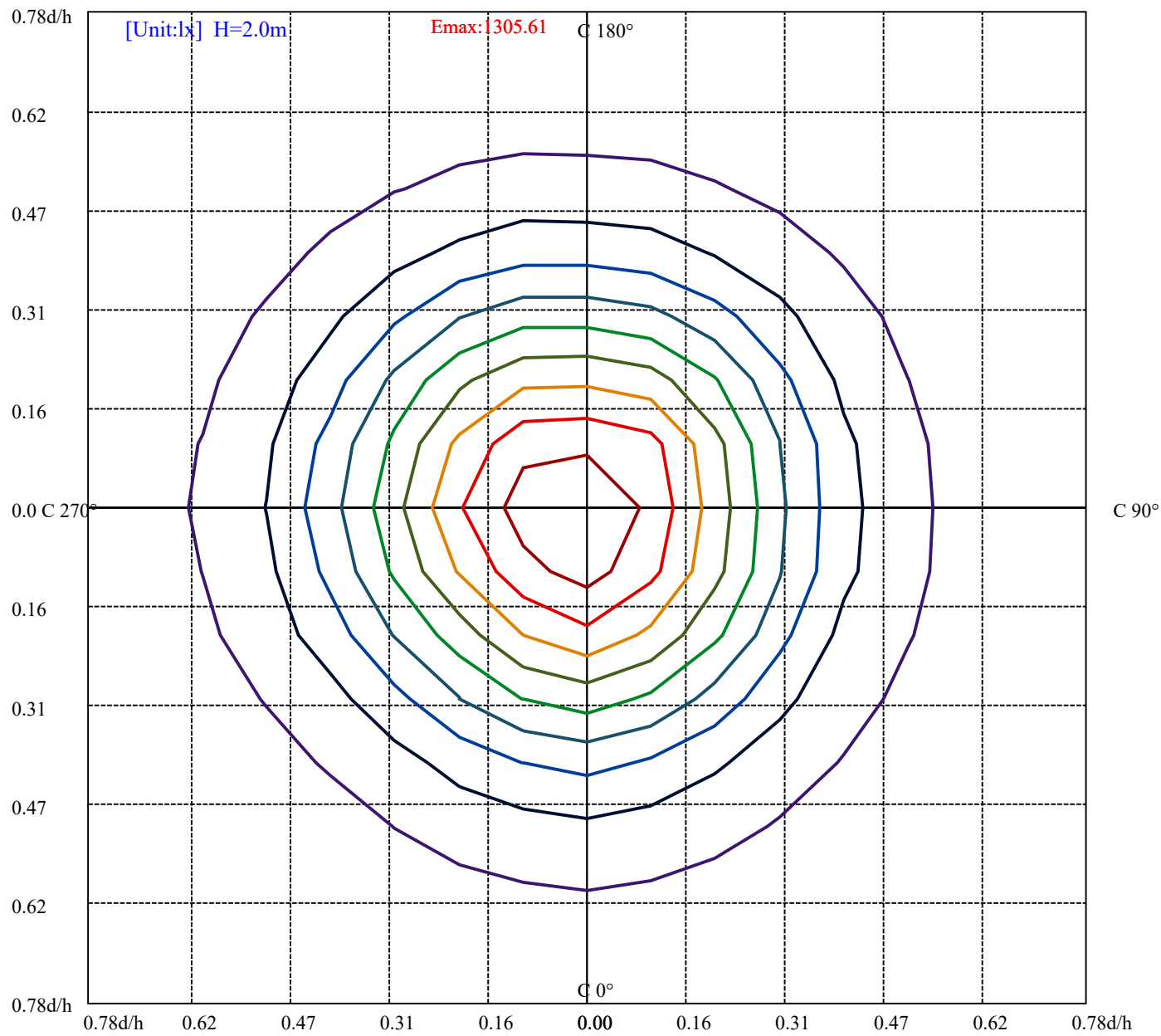


House

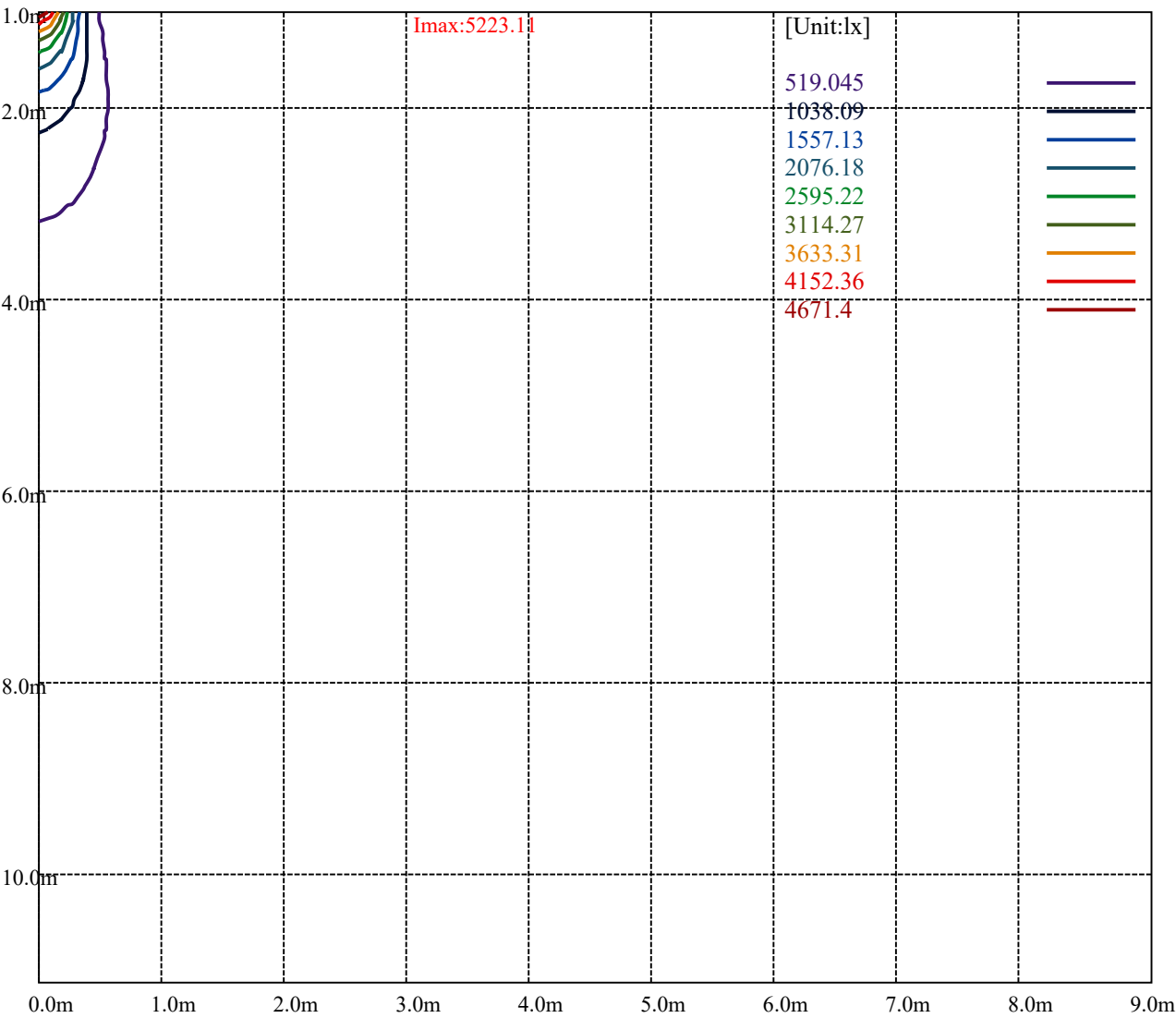
[Unit:cd]

Road

	Imax:5223.11	
(10%Imax)	522.242	—
(20%Imax)	1044.48	—
(30%Imax)	1566.73	—
(40%Imax)	2088.97	—
(50%Imax)	2611.21	—
(60%Imax)	3133.45	—
(70%Imax)	3655.69	—
(80%Imax)	4177.94	—
(90%Imax)	4700.18	—



(10%E _{max}) 130.5603	
(20%E _{max}) 261.12	
(30%E _{max}) 391.68	
(40%E _{max}) 522.2425	
(50%E _{max}) 652.8025	
(60%E _{max}) 783.3625	
(70%E _{max}) 913.9225	
(80%E _{max}) 1044.483	
(90%E _{max}) 1175.042	



Luminance Table

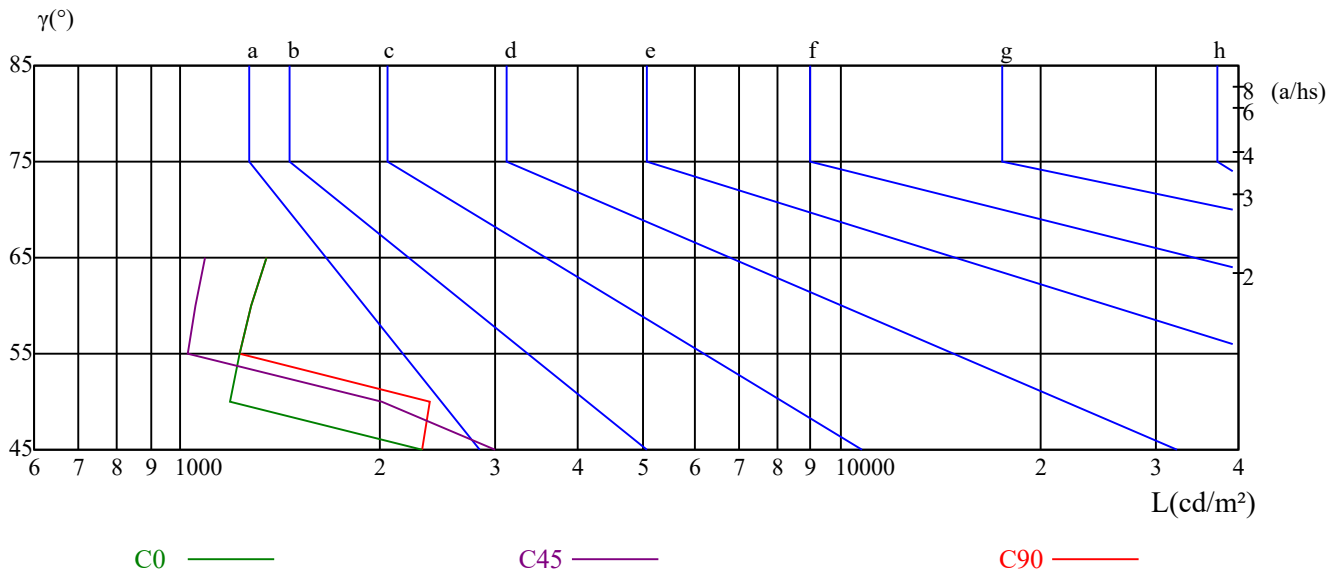
γ	45	50	55	60	65	70	75	80	85
C0	2323	1189	1228	1279	1345	0	0	0	0
C45	3001	2018	1026	1051	1086	0	0	0	0
C90	2323	2378	1228	1279	1345	0	0	0	0

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

Glare Table

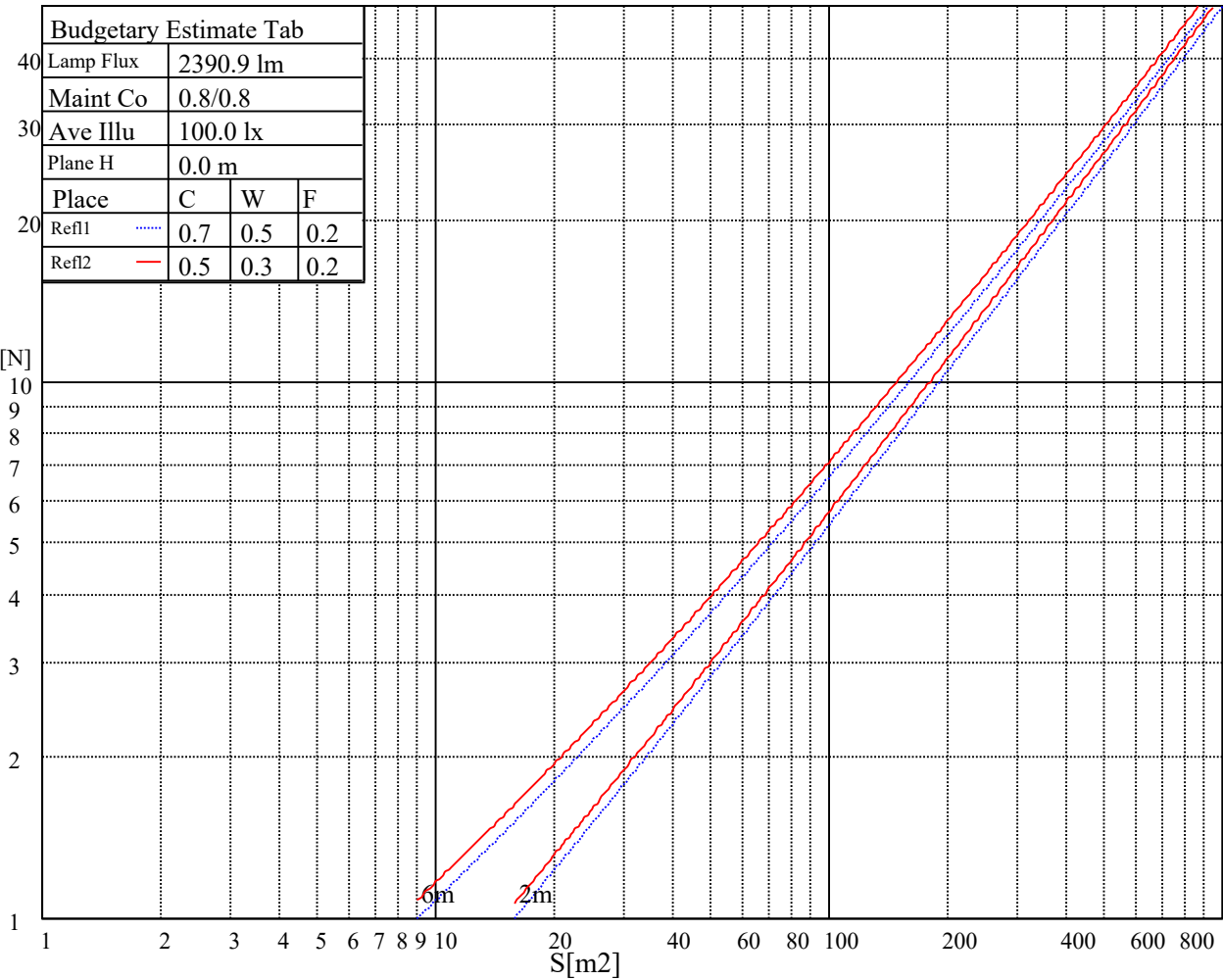
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

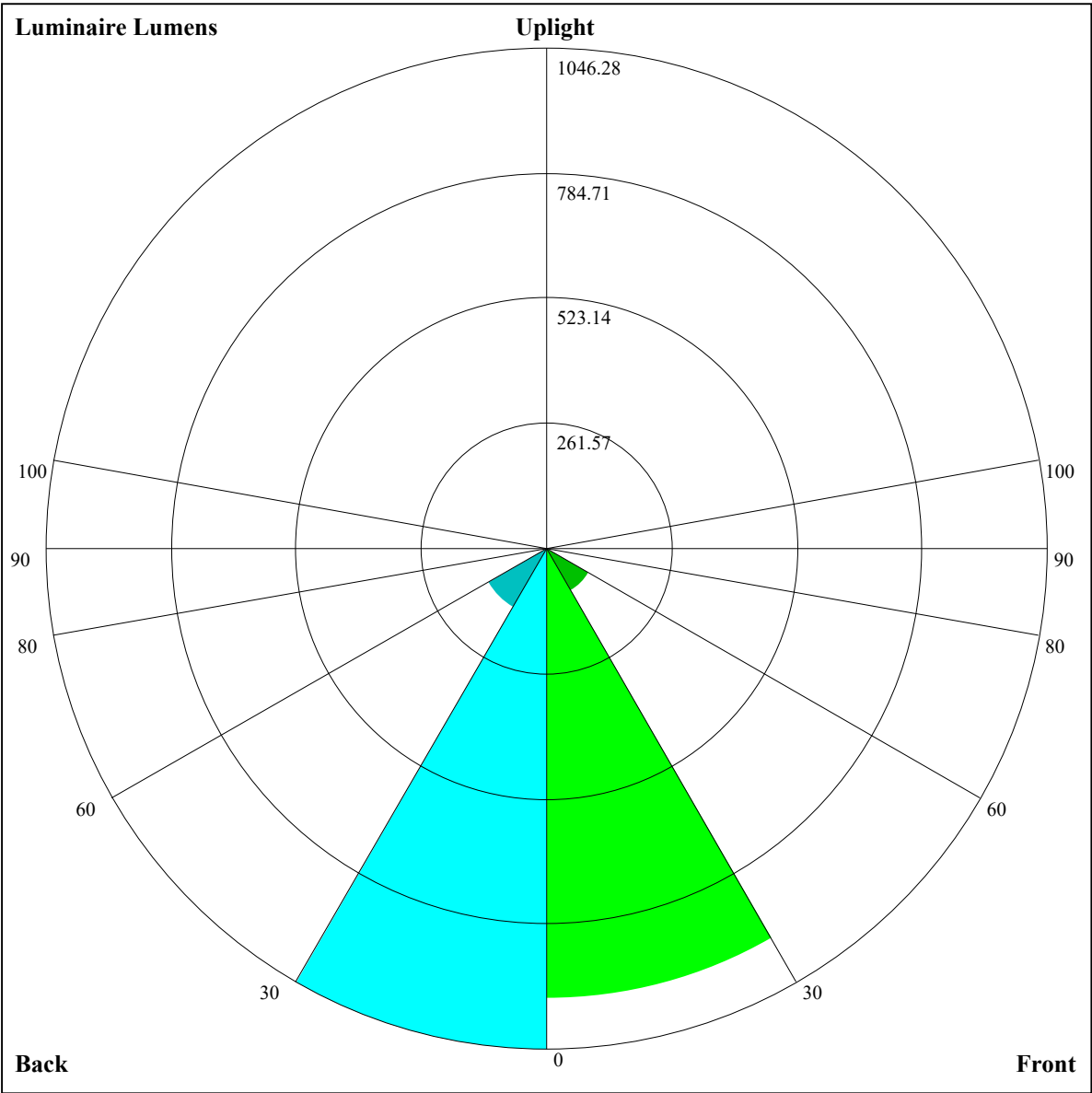


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	12.48	13.37	12.84	13.68	13.99	13.58	14.48	13.95	14.79	15.10
	3H	12.27	13.06	12.66	13.40	13.75	13.38	14.17	13.77	14.51	14.85
	4H	12.17	12.90	12.57	13.25	13.62	13.27	14.00	13.67	14.36	14.73
	6H	12.08	12.74	12.50	13.12	13.52	13.18	13.85	13.60	14.23	14.63
	8H	12.00	12.64	12.42	13.02	13.43	13.10	13.74	13.53	14.13	14.53
	12H	11.93	12.53	12.36	12.92	13.34	13.03	13.63	13.46	14.03	14.45
4H	2H	12.15	12.88	12.56	13.24	13.61	13.26	13.99	13.66	14.34	14.71
	3H	11.92	12.53	12.34	12.93	13.34	13.02	13.63	13.44	14.03	14.44
	4H	11.84	12.37	12.28	12.79	13.24	12.94	13.47	13.38	13.89	14.34
	6H	11.70	12.16	12.18	12.62	13.07	12.80	13.26	13.27	13.72	14.17
	8H	11.64	12.07	12.13	12.53	13.01	12.74	13.17	13.23	13.63	14.10
	12H	11.59	11.98	12.08	12.44	12.96	12.68	13.08	13.18	13.53	14.05
8H	4H	11.63	12.06	12.12	12.52	13.00	12.73	13.16	13.22	13.62	14.09
	6H	11.48	11.83	11.99	12.31	12.83	12.58	12.92	13.09	13.41	13.92
	8H	11.47	11.76	12.01	12.28	12.78	12.56	12.85	13.10	13.37	13.87
	12H	11.42	11.63	11.97	12.15	12.68	12.51	12.72	13.06	13.24	13.77
12H	4H	11.58	11.97	12.07	12.43	12.95	12.67	13.07	13.17	13.52	14.04
	6H	11.47	11.75	12.00	12.28	12.78	12.56	12.85	13.09	13.37	13.87
	8H	11.42	11.63	11.96	12.15	12.68	12.51	12.72	13.05	13.24	13.76
Variation with the observer position at spacings:											
S = 1.0H		6.3/-12.9					6.1/-12.4				
S = 1.5H		9.1/-13.2					8.9/-12.7				
S = 2.0H		11.1/-13.2					10.9/-12.6				
Standard tables:		BK0					BK0				
Uncorrected UGR		-5.6					-6.7				

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.94	0.93	0.92	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	0.88	0.86	0.85
3	0.94	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.75	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.74	0.71	0.70
7	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	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	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
9	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
10	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59



Luminaire Lumens:

FL=939.82,FM=103.08,FH=2.58,FVH=0.36

BL=1046.28,BM=142.36,BH=3.19,BVH=0.45

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	5189.54	5157.03	5055.78	4990.24	4873.00	4739.24	4608.15	4438.15	4266.02
45.0	5220.45	5194.34	5150.11	5075.50	4969.99	4897.51	4793.60	4587.36	4502.63
90.0	5198.07	5172.49	5104.81	5002.49	4896.45	4768.55	4627.86	4491.97	4348.62
135.0	5219.92	5220.45	5198.60	5145.84	5068.04	4984.37	4898.58	4804.79	4690.75
180.0	5189.54	5206.59	5223.11	5191.14	5161.83	5091.49	5000.89	4916.16	4818.11
225.0	5220.45	5218.32	5202.86	5145.84	5087.22	5012.08	4918.83	4799.99	4671.56
270.0	5198.07	5222.05	5219.38	5177.82	5130.39	5089.35	4957.20	4898.04	4782.40
315.0	5219.92	5193.80	5142.64	5074.43	4984.37	4876.19	4753.63	4612.94	4452.54
360.0	5189.54	5157.03	5055.78	4990.24	4873.00	4739.24	4608.15	4438.15	4266.02

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4094.43	3895.66	3699.55	3497.05	3296.15	3093.11	2875.69	2655.60	2436.05
45.0	4340.63	4148.25	3960.14	3757.64	3569.52	3353.17	3145.34	2942.30	2722.75
90.0	4185.56	4000.11	3820.52	3678.24	3444.29	3255.65	3098.97	2853.31	2687.57
135.0	4548.99	4399.25	4235.65	4092.30	3913.24	3694.22	3548.21	3364.36	3178.38
180.0	4700.87	4576.71	4426.96	4266.02	4076.84	3883.40	3683.03	3502.91	3313.20
225.0	4527.15	4353.42	4164.77	3987.85	3774.16	3576.45	3379.81	3170.91	3050.48
270.0	4590.03	4497.84	4335.83	4154.65	3972.93	3778.42	3577.52	3381.94	3185.84
315.0	4284.68	4182.36	4004.37	3734.19	3615.35	3410.19	3210.88	3005.72	2785.10
360.0	4094.43	3895.66	3699.55	3497.05	3296.15	3093.11	2875.69	2655.60	2436.05

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2205.83	1985.21	1775.25	1587.14	1483.75	1267.93	1034.95	1034.95	973.66
45.0	2502.66	2289.50	2084.33	1887.16	1688.92	1506.14	1365.45	1177.87	1070.76
90.0	2471.75	2254.33	2031.04	1830.67	1643.09	1480.02	1329.75	1034.52	1034.52
135.0	2984.40	2778.70	2566.07	2340.66	2111.51	1893.55	1684.12	1505.60	1344.67
180.0	3114.43	2993.99	2708.89	2496.26	2364.10	2147.75	1938.32	1744.34	1565.82
225.0	2850.64	2640.68	2425.39	2208.50	1996.40	1798.70	1606.85	1441.12	1294.04
270.0	2980.14	2771.24	2552.75	2331.60	2114.71	1906.34	1705.97	1528.52	1432.60
315.0	2569.80	2340.12	2114.17	1897.82	1689.45	1509.33	1348.40	1047.79	1005.53
360.0	2205.83	1985.21	1775.25	1587.14	1483.75	1267.93	1034.95	1034.95	973.66

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	871.61	773.82	675.88	580.59	491.87	405.27	324.54	246.15	172.87
45.0	954.58	829.35	751.02	659.89	563.97	477.64	393.97	312.44	296.99
90.0	970.30	861.54	756.61	654.61	560.40	506.84	421.10	338.87	258.62
135.0	1201.32	1076.62	968.97	859.19	792.05	650.83	594.88	504.82	419.55
180.0	1405.95	1265.80	1140.57	1031.85	925.27	813.37	708.92	609.26	516.01
225.0	1032.76	1032.76	921.81	805.32	701.35	642.25	511.80	460.80	378.63
270.0	1232.76	1156.55	1044.64	936.47	824.02	717.44	620.46	528.26	439.80
315.0	1005.53	903.27	798.39	699.22	606.60	516.38	429.94	344.95	267.04
360.0	871.61	773.82	675.88	580.59	491.87	405.27	324.54	246.15	172.87

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	110.10	58.99	26.80	20.57	18.17	16.41	14.55	13.16	12.10
45.0	266.08	120.12	82.33	45.19	27.50	24.99	20.73	18.07	16.73
90.0	186.73	122.46	68.53	32.67	22.54	20.30	18.07	16.09	14.49
135.0	335.89	287.93	287.93	120.06	66.99	33.20	22.81	20.46	18.07
180.0	428.61	346.01	298.58	298.58	140.05	83.99	43.43	25.15	22.33
225.0	298.96	227.34	161.10	105.14	60.75	32.67	25.69	22.97	20.41
270.0	356.67	293.25	293.25	121.82	68.96	33.04	20.52	19.18	16.20
315.0	192.80	127.26	72.37	33.68	20.68	18.49	16.36	14.44	12.95
360.0	110.10	58.99	26.80	20.57	18.17	16.41	14.55	13.16	12.10

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	11.08	10.13	9.27	8.58	7.78	7.14	6.61	6.18	5.70
45.0	14.97	13.54	12.47	11.35	10.39	9.43	8.63	7.94	7.35
90.0	13.32	12.26	11.24	10.28	9.38	8.58	7.94	7.25	6.87
135.0	16.31	14.28	12.95	11.99	10.71	9.86	9.22	8.58	7.94
180.0	20.20	17.96	16.15	14.76	13.59	12.42	11.30	10.34	9.43
225.0	18.33	16.63	15.29	14.12	13.11	12.10	11.24	10.28	9.86
270.0	14.28	13.43	12.20	11.19	10.23	9.33	8.53	7.89	7.19
315.0	11.83	11.19	9.97	9.11	8.69	7.99	7.41	6.98	6.61
360.0	11.08	10.13	9.27	8.58	7.78	7.14	6.61	6.18	5.70
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.28	4.96	4.69	4.37	4.10	3.89	3.78	3.52	3.36
45.0	6.77	6.23	5.76	5.33	5.01	4.64	4.37	4.10	3.94
90.0	6.34	5.81	5.49	5.17	4.85	4.53	4.32	4.10	3.89
135.0	7.51	7.14	6.82	6.55	6.23	6.02	5.81	5.60	5.38
180.0	8.63	7.99	7.41	6.93	6.66	6.08	5.70	5.49	5.17
225.0	9.06	8.63	8.21	7.83	7.30	7.03	6.50	6.13	5.86
270.0	6.71	6.29	5.97	5.65	5.33	5.12	4.85	4.64	4.37
315.0	6.23	5.92	5.60	5.33	5.06	4.85	4.64	4.42	4.32
360.0	5.28	4.96	4.69	4.37	4.10	3.89	3.78	3.52	3.36
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.25	3.09	2.88	2.82	2.56	2.45	2.24	2.08	1.92
45.0	3.73	3.46	3.30	3.20	2.98	2.77	2.61	2.45	2.24
90.0	3.68	3.52	3.36	3.20	2.93	2.77	2.56	2.40	2.18
135.0	5.22	4.96	4.69	4.53	4.32	4.05	3.94	3.57	3.36
180.0	4.90	4.64	4.37	4.16	3.94	3.78	3.46	3.30	3.09
225.0	5.49	5.33	5.01	4.69	4.32	3.94	3.68	3.41	3.09
270.0	4.21	4.05	3.84	3.68	3.52	3.36	3.14	2.93	2.77
315.0	4.05	3.84	3.62	3.46	3.25	3.14	2.82	2.72	2.56
360.0	3.25	3.09	2.88	2.82	2.56	2.45	2.24	2.08	1.92
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.71	1.55	1.49	1.33	1.28	1.17	1.12	1.01	0.91
45.0	2.08	1.76	1.60	1.49	1.39	1.28	1.17	1.12	1.07
90.0	1.92	1.76	1.60	1.55	1.33	1.33	1.17	1.07	1.01
135.0	3.25	3.04	2.66	2.34	2.13	2.03	1.81	1.71	1.55
180.0	2.88	2.61	2.40	2.18	1.92	1.71	1.60	1.55	1.39
225.0	2.77	2.50	2.18	1.81	1.60	1.49	1.44	1.33	1.28
270.0	2.50	2.24	1.97	1.76	1.55	1.44	1.39	1.33	1.23
315.0	2.29	2.24	2.03	1.81	1.71	1.60	1.44	1.28	1.23
360.0	1.71	1.55	1.49	1.33	1.28	1.17	1.12	1.01	0.91
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.91	0.80	0.69	0.64	0.53	0.48	0.43	0.43	0.37
45.0	1.01	0.91	0.85	0.80	0.64	0.59	0.43	0.43	0.32
90.0	0.85	0.85	0.69	0.64	0.53	0.59	0.53	0.43	0.37
135.0	1.49	1.33	1.23	1.12	1.01	0.91	0.85	0.75	0.64
180.0	1.28	1.17	1.01	0.91	0.85	0.75	0.59	0.59	0.59
225.0	1.17	1.12	1.12	1.01	0.85	0.80	0.69	0.59	0.48
270.0	1.12	1.07	0.91	0.85	0.75	0.64	0.59	0.53	0.48
315.0	1.07	0.91	0.85	0.75	0.64	0.64	0.59	0.48	0.48
360.0	0.91	0.80	0.69	0.64	0.53	0.48	0.43	0.43	0.37

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.32
45.0	0.37
90.0	0.37
135.0	0.64
180.0	0.48
225.0	0.37
270.0	0.37
315.0	0.32
360.0	0.32