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NT

Client: NT

LumCAT: 3-2963-LM

Luminaire: 92.70.411.00

Report No: 20250413-B002

Ballast type: AC

Test No: 20250413-C002

LampCAT: LUMILEDS LUXEON 1208

Lamp flux(lm): 3860.0

Number of Lamps: 1

Length(mm): 92

Phm Type: C

Voltage(V): 35.510

Current(A): 0.895

Power (W): 31.780

PF: 0.000

Width(mm): 92

Height(mm): 50

Photometric Results

Lumens(lm): 3756.02, Efficiency(%): 97.31% , Luminous Efficacy(lm/W): 118.19

Central intensity(cd): 6190.859, Maximum intensity(cd): 6202.583

Angle of maximum intensity: C=315.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=42.4

[C90/270]Total=43.6

Field angle(10%Imax): [C0/180]Total=79.2

[C90/270]Total=79.4

Maximum s/h(1/2): C0_180=0.70 C90_270=0.67

Maximum s/h(1/4): C0_180=0.71 C90_270=0.70

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.26%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.842%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6190.992	0.000	0	0.00%	0.00%
1.0	6184.331	5.921	5.921	0.15%	0.16%
2.0	6167.678	17.729	23.65	0.46%	0.63%
3.0	6131.374	29.415	53.065	0.76%	1.41%
4.0	6091.140	40.913	93.978	1.06%	2.50%
5.0	6024.128	52.119	146.097	1.35%	3.89%
6.0	5945.792	62.905	209.002	1.63%	5.56%
7.0	5864.058	73.304	282.306	1.90%	7.52%
8.0	5749.018	83.113	365.419	2.15%	9.73%
9.0	5629.649	92.218	457.636	2.39%	12.18%
10.0	5486.232	100.595	558.231	2.61%	14.86%
11.0	5323.564	108.012	666.243	2.80%	17.74%
12.0	5144.577	114.432	780.675	2.96%	20.78%
13.0	4948.469	119.779	900.454	3.10%	23.97%
14.0	4741.371	124.029	1024.483	3.21%	27.28%
15.0	4533.140	127.325	1151.808	3.30%	30.67%
16.0	4302.595	129.468	1281.276	3.35%	34.11%
17.0	4066.786	130.334	1411.61	3.38%	37.58%
18.0	3851.828	130.561	1542.17	3.38%	41.06%
19.0	3628.743	130.147	1672.317	3.37%	44.52%
20.0	3396.332	128.578	1800.895	3.33%	47.95%
21.0	3180.440	126.287	1927.183	3.27%	51.31%
22.0	2969.279	123.581	2050.764	3.20%	54.60%
23.0	2748.325	119.971	2170.735	3.11%	57.79%
24.0	2547.822	115.793	2286.528	3.00%	60.88%
25.0	2390.882	112.295	2398.823	2.91%	63.87%
26.0	2198.772	108.339	2507.162	2.81%	66.75%
27.0	2035.971	103.604	2610.766	2.68%	69.51%
28.0	1907.942	99.852	2710.618	2.59%	72.17%
29.0	1775.716	96.375	2806.993	2.50%	74.73%
30.0	1667.937	92.978	2899.971	2.41%	77.21%
31.0	1567.818	90.046	2990.017	2.33%	79.61%
32.0	1478.424	87.271	3077.288	2.26%	81.93%
33.0	1398.689	84.761	3162.049	2.20%	84.19%
34.0	1312.619	82.052	3244.101	2.13%	86.37%
35.0	1204.301	78.166	3322.267	2.03%	88.45%
36.0	1131.946	74.387	3396.654	1.93%	90.43%
37.0	996.476	69.417	3466.071	1.80%	92.28%

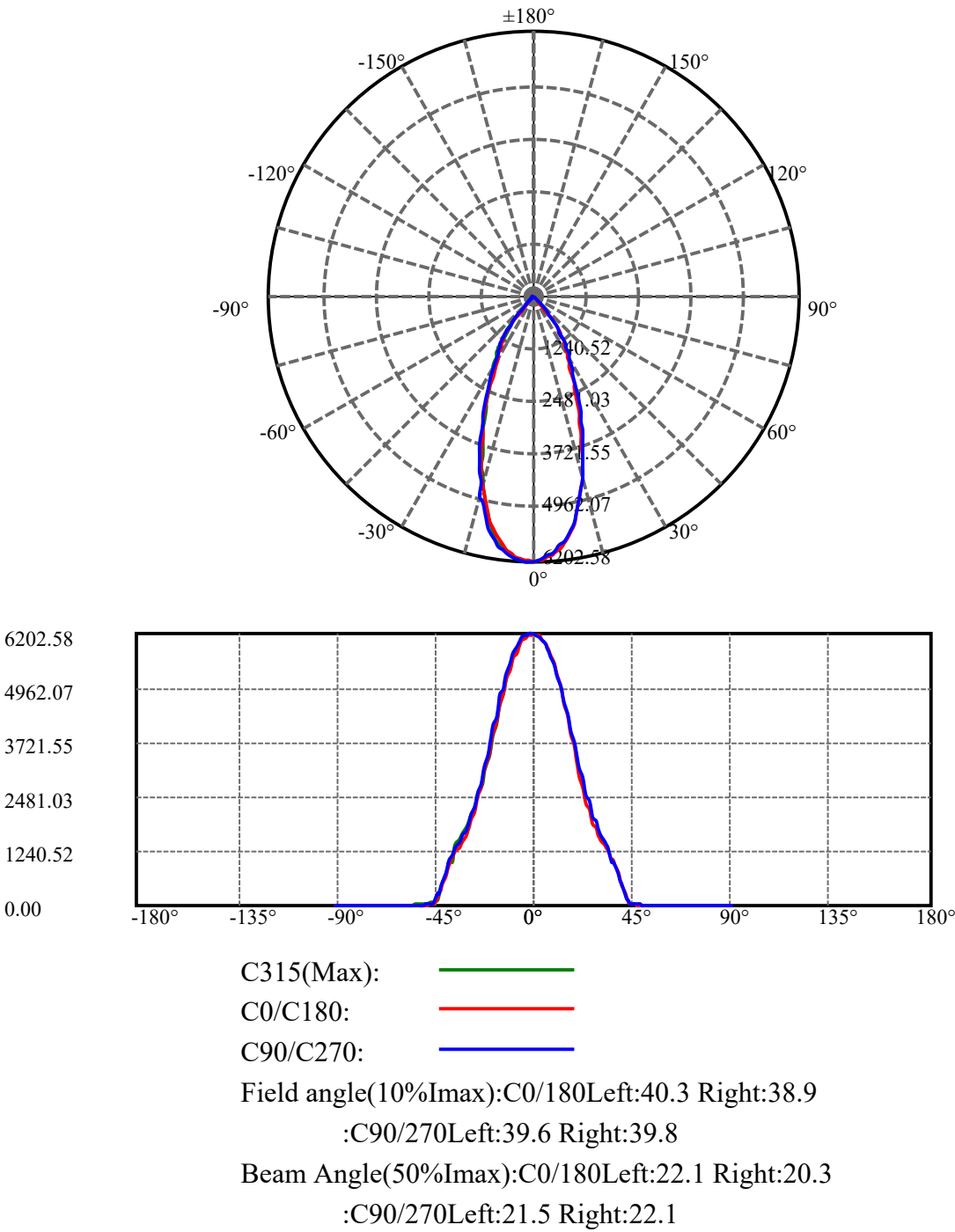
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	861.466	62.016	3528.087	1.61%	93.93%
39.0	720.461	53.996	3582.082	1.40%	95.37%
40.0	572.055	45.078	3627.161	1.17%	96.57%
41.0	418.327	35.267	3662.428	0.91%	97.51%
42.0	281.471	25.425	3687.853	0.66%	98.19%
43.0	208.264	18.141	3705.994	0.47%	98.67%
44.0	126.297	12.627	3718.621	0.33%	99.00%
45.0	51.418	6.830	3725.451	0.18%	99.19%
46.0	39.075	3.539	3728.99	0.09%	99.28%
47.0	31.901	2.823	3731.813	0.07%	99.36%
48.0	26.638	2.366	3734.179	0.06%	99.42%
49.0	22.668	2.025	3736.204	0.05%	99.47%
50.0	19.631	1.764	3737.968	0.05%	99.52%
51.0	17.166	1.557	3739.524	0.04%	99.56%
52.0	15.108	1.385	3740.909	0.04%	99.60%
53.0	13.329	1.237	3742.146	0.03%	99.63%
54.0	11.930	1.113	3743.26	0.03%	99.66%
55.0	10.651	1.008	3744.268	0.03%	99.69%
56.0	9.619	0.916	3745.184	0.02%	99.71%
57.0	8.839	0.844	3746.028	0.02%	99.73%
58.0	7.940	0.776	3746.804	0.02%	99.75%
59.0	7.347	0.715	3747.518	0.02%	99.77%
60.0	6.801	0.668	3748.187	0.02%	99.79%
61.0	6.268	0.624	3748.81	0.02%	99.81%
62.0	5.782	0.581	3749.391	0.02%	99.82%
63.0	5.282	0.538	3749.929	0.01%	99.84%
64.0	4.876	0.498	3750.428	0.01%	99.85%
65.0	4.436	0.461	3750.888	0.01%	99.86%
66.0	4.123	0.427	3751.316	0.01%	99.87%
67.0	3.784	0.398	3751.713	0.01%	99.89%
68.0	3.451	0.366	3752.08	0.01%	99.90%
69.0	3.124	0.335	3752.415	0.01%	99.90%
70.0	2.831	0.306	3752.721	0.01%	99.91%
71.0	2.618	0.282	3753.002	0.01%	99.92%
72.0	2.471	0.265	3753.267	0.01%	99.93%
73.0	2.358	0.253	3753.52	0.01%	99.93%
74.0	2.212	0.240	3753.76	0.01%	99.94%
75.0	2.045	0.225	3753.985	0.01%	99.95%

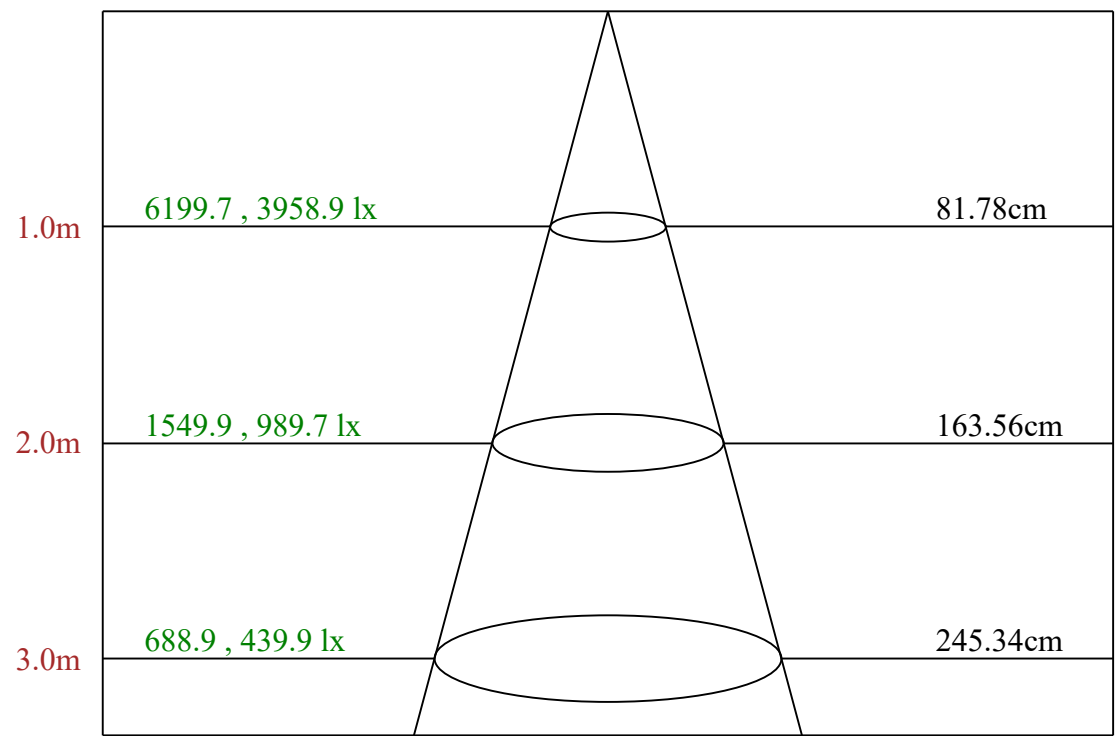
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.918	0.210	3754.195	0.01%	99.95%
77.0	1.785	0.197	3754.393	0.01%	99.96%
78.0	1.692	0.186	3754.579	0.00%	99.96%
79.0	1.565	0.175	3754.754	0.00%	99.97%
80.0	1.459	0.163	3754.917	0.00%	99.97%
81.0	1.359	0.152	3755.069	0.00%	99.97%
82.0	1.286	0.143	3755.213	0.00%	99.98%
83.0	1.192	0.135	3755.347	0.00%	99.98%
84.0	1.119	0.126	3755.473	0.00%	99.99%
85.0	1.039	0.118	3755.591	0.00%	99.99%
86.0	0.939	0.108	3755.699	0.00%	99.99%
87.0	0.819	0.096	3755.795	0.00%	99.99%
88.0	0.726	0.085	3755.88	0.00%	100.00%
89.0	0.653	0.076	3755.956	0.00%	100.00%
90.0	0.540	0.065	3756.021	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2899.97	75.13%	77.21%
0-40	3627.16	93.97%	96.57%
0-60	3748.19	97.10%	99.79%
0-90	3755.96	97.30%	100.00%
0-120	3755.96	97.30%	100.00%
0-180	3756.02	97.31%	100.00%
60-90	7.77	0.20%	0.21%
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%
0-31.17	3004.82	77.84%	80.00%

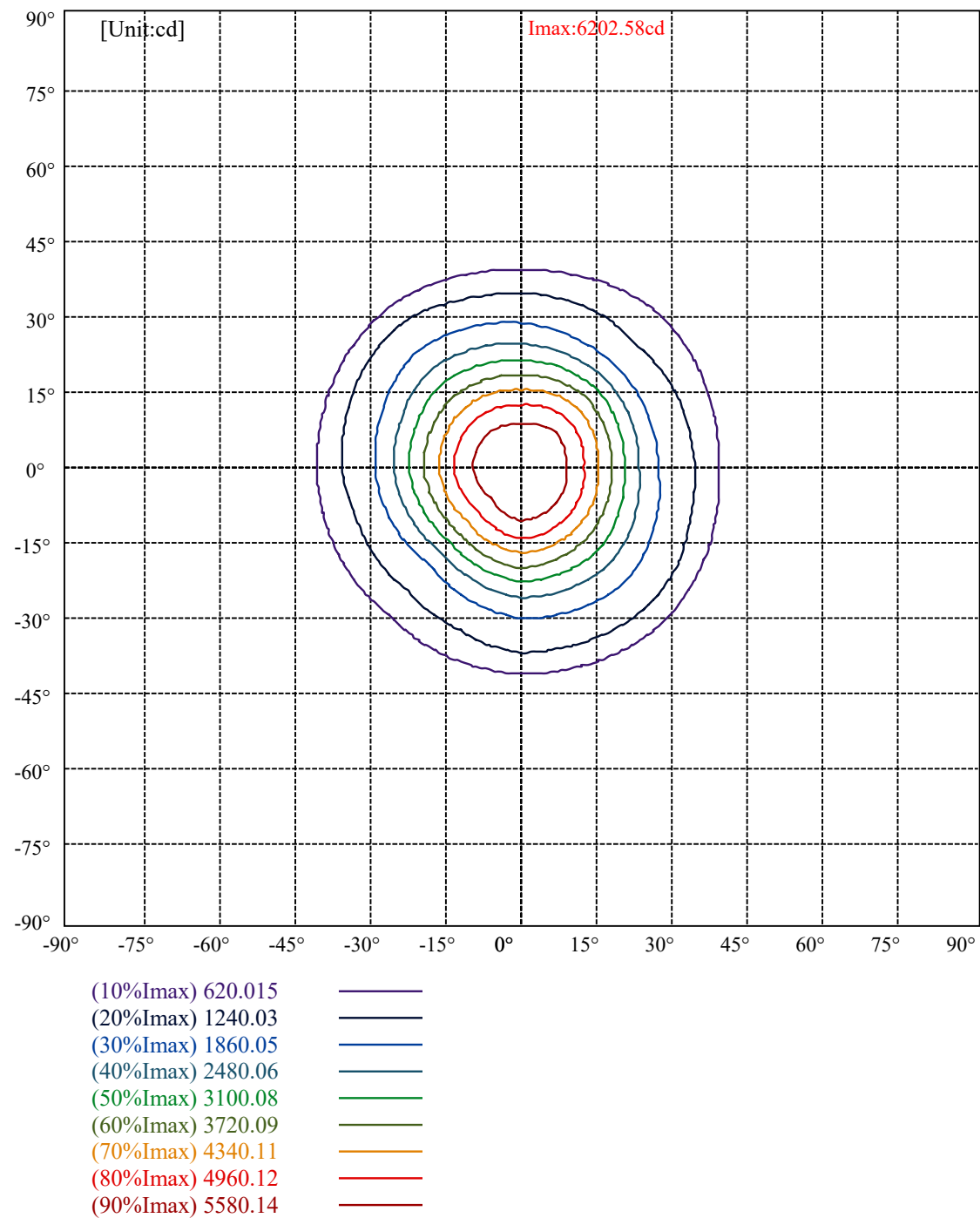
ZONAL LUMEN SUMMARY

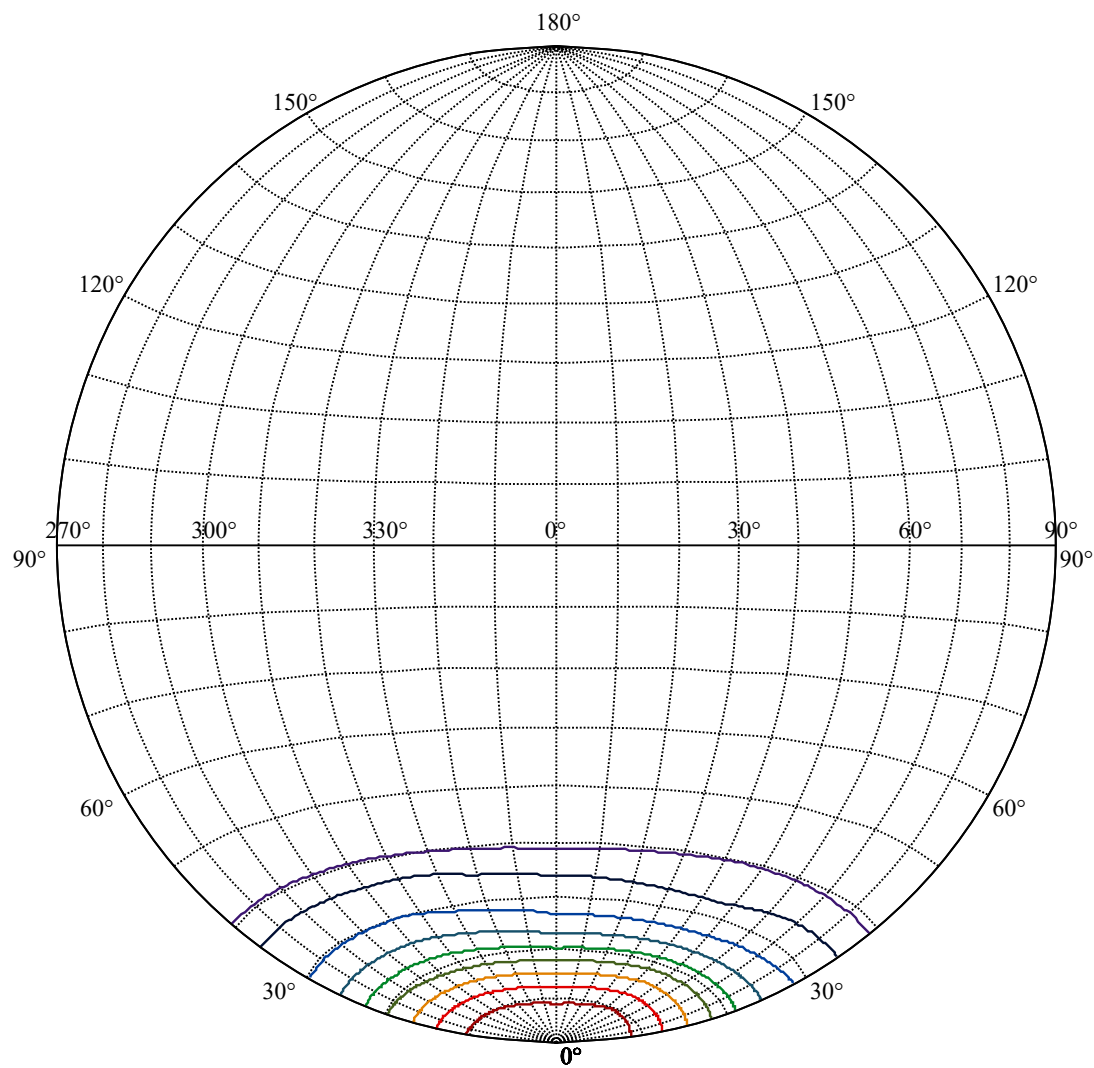
0-10	558.23
10-20	1242.66
20-30	1099.08
30-40	727.19
40-50	110.81
50-60	10.22
60-70	4.53
70-80	2.20
80-90	1.04
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C315 plane 44.48



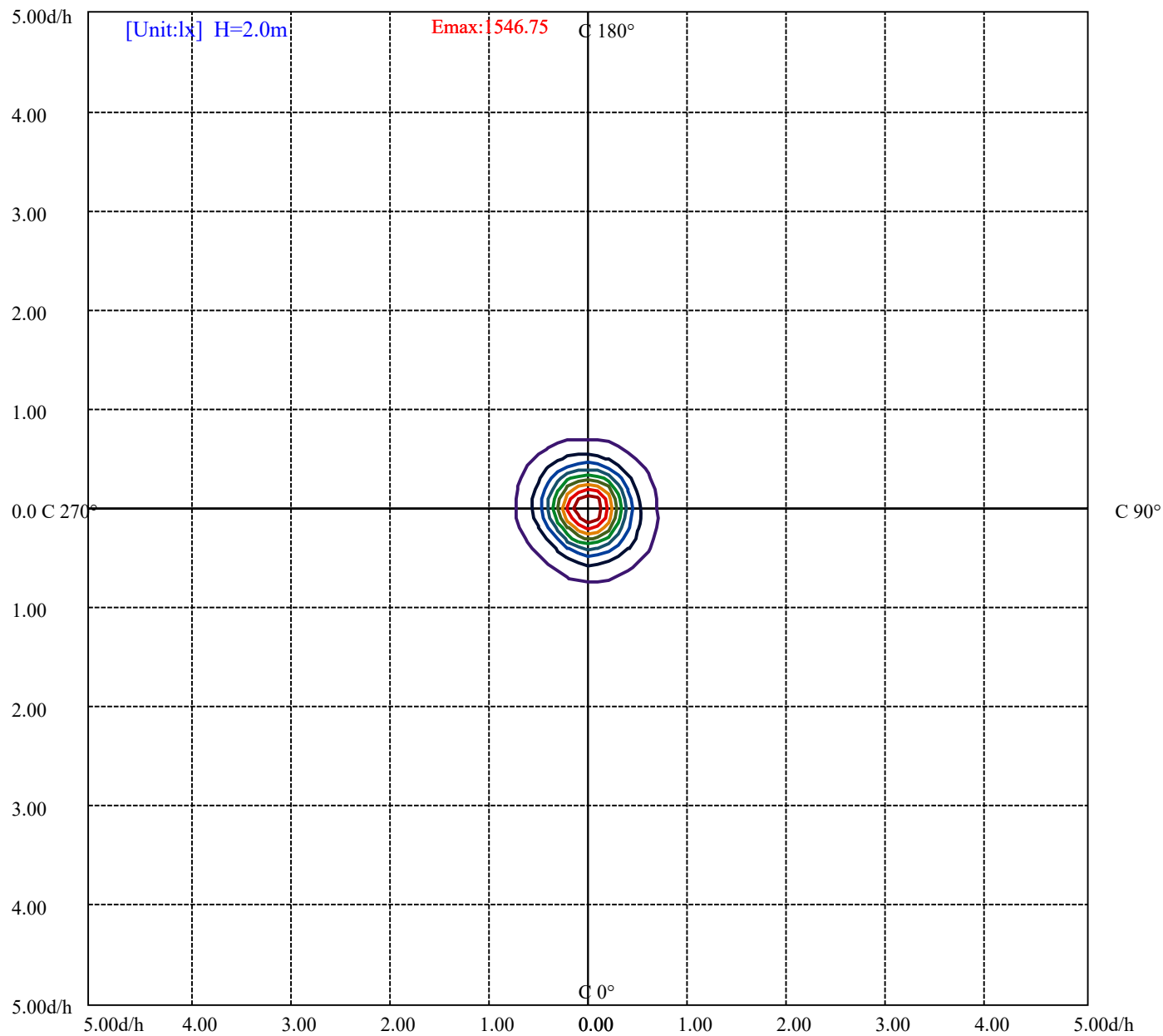


House

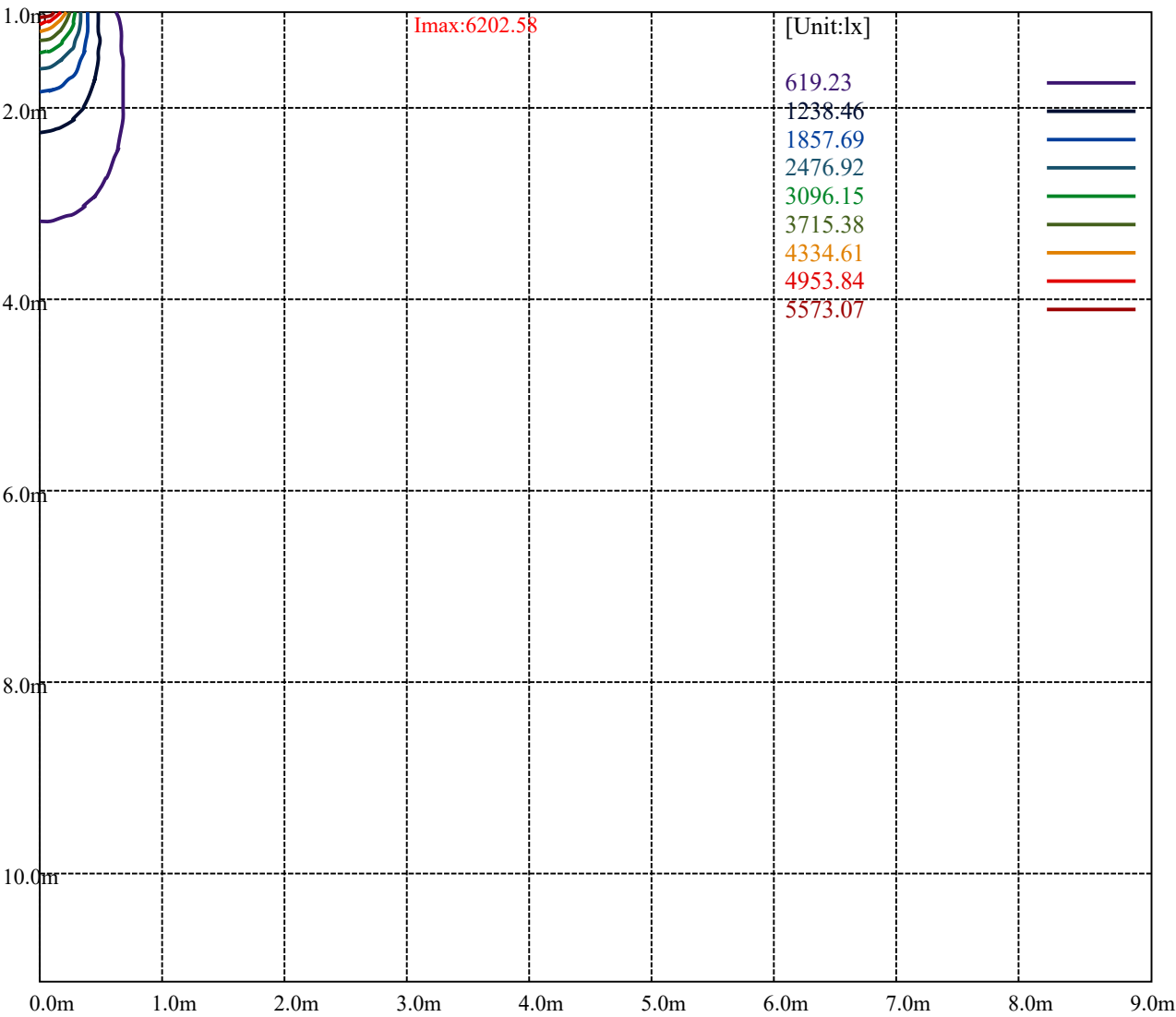
[Unit:cd]

Road

I _{max} :6202.58	
(10%I _{max}) 620.296	—
(20%I _{max}) 1240.59	—
(30%I _{max}) 1860.89	—
(40%I _{max}) 2481.18	—
(50%I _{max}) 3101.48	—
(60%I _{max}) 3721.77	—
(70%I _{max}) 4342.07	—
(80%I _{max}) 4962.36	—
(90%I _{max}) 5582.66	—



(10%Emax)	154.6743	—
(20%Emax)	309.3475	—
(30%Emax)	464.0225	—
(40%Emax)	618.6975	—
(50%Emax)	773.3725	—
(60%Emax)	928.045	—
(70%Emax)	1082.72	—
(80%Emax)	1237.395	—
(90%Emax)	1392.068	—



Luminance Table

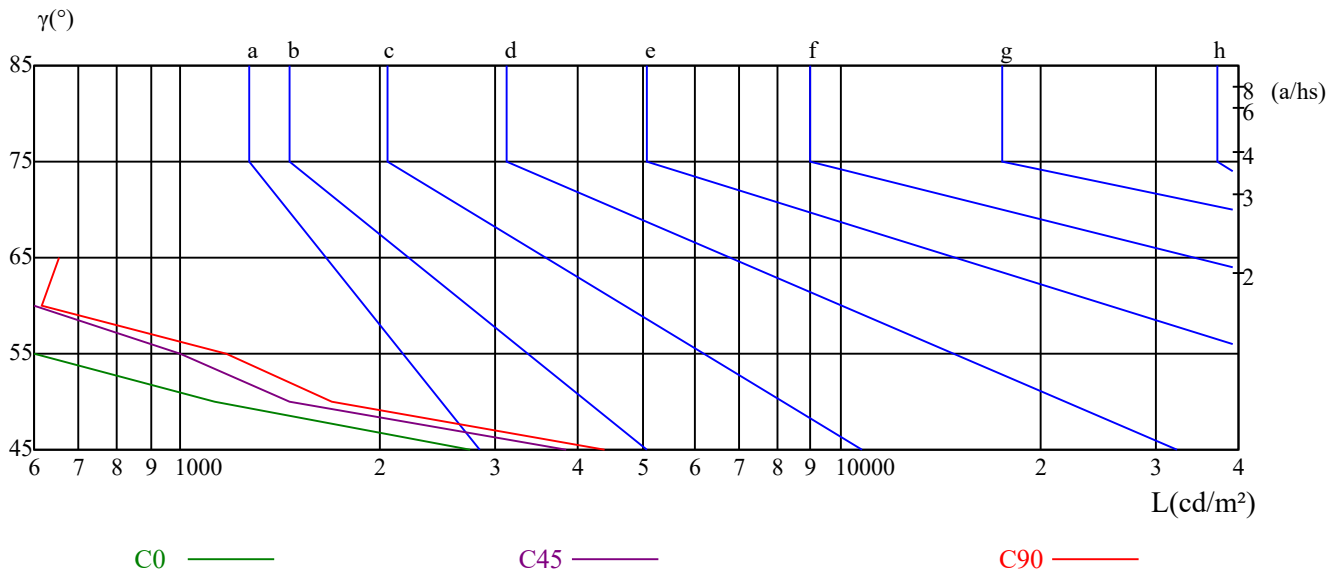
γ	45	50	55	60	65	70	75	80	85
C0	2736	1129	588	618	656	0	0	0	0
C45	3830	1460	998	516	538	567	0	0	0
C90	4377	1694	1175	618	656	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1397	1397	1397	0	0	0	0	0	0

Glare Table

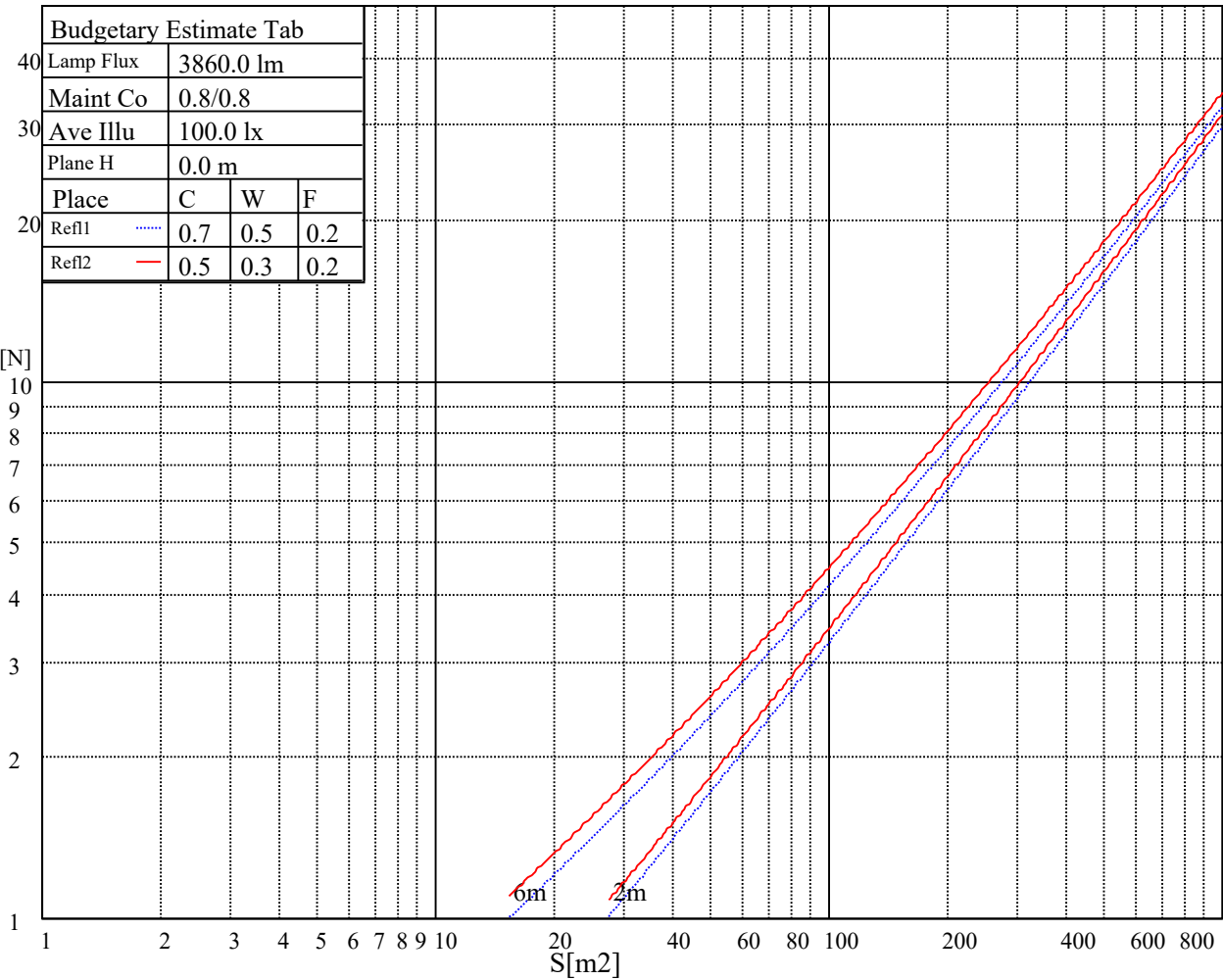
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

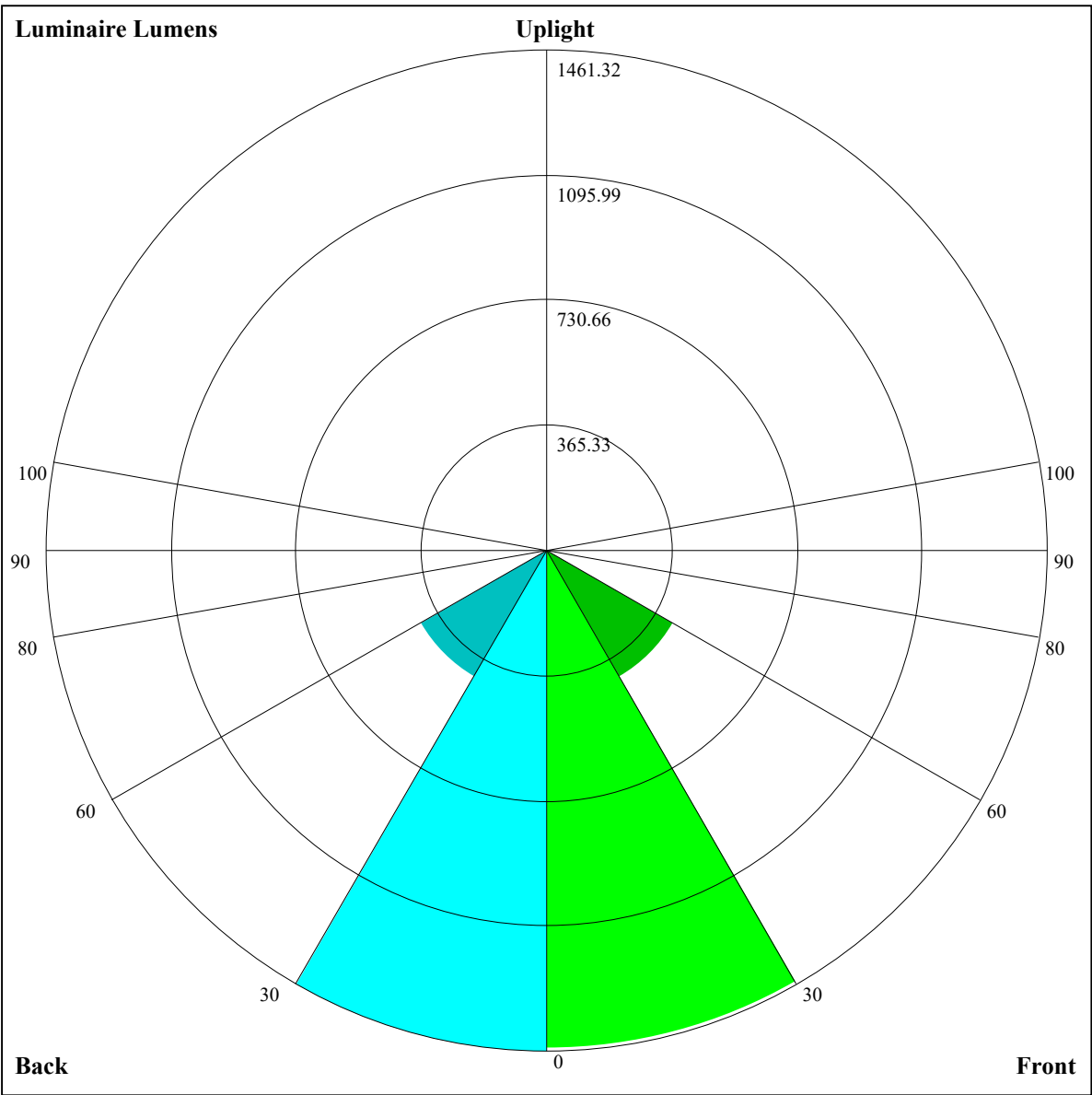


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.89	18.81	18.25	19.12	19.44	18.00	18.92	18.36	19.23	19.55
	3H	17.67	18.49	18.06	18.83	19.17	17.79	18.60	18.17	18.94	19.29
	4H	17.56	18.32	17.96	18.67	19.04	17.68	18.43	18.08	18.79	19.15
	6H	17.47	18.16	17.89	18.53	18.93	17.58	18.27	18.00	18.65	19.05
	8H	17.39	18.05	17.81	18.43	18.84	17.50	18.16	17.93	18.55	18.96
	12H	17.32	17.94	17.74	18.33	18.75	17.43	18.05	17.86	18.45	18.87
4H	2H	17.56	18.32	17.96	18.67	19.04	17.68	18.43	18.08	18.78	19.15
	3H	17.30	17.93	17.73	18.33	18.75	17.42	18.05	17.85	18.44	18.86
	4H	17.22	17.76	17.66	18.19	18.64	17.34	17.88	17.77	18.30	18.75
	6H	17.07	17.55	17.55	18.00	18.46	17.19	17.66	17.66	18.12	18.57
	8H	17.01	17.45	17.50	17.91	18.39	17.12	17.56	17.61	18.02	18.50
	12H	16.96	17.36	17.45	17.81	18.34	17.07	17.47	17.56	17.93	18.45
8H	4H	17.01	17.45	17.50	17.91	18.38	17.12	17.56	17.61	18.02	18.50
	6H	16.85	17.21	17.35	17.69	18.20	16.96	17.32	17.47	17.80	18.31
	8H	16.83	17.13	17.36	17.65	18.15	16.94	17.24	17.48	17.76	18.26
	12H	16.77	16.99	17.31	17.51	18.04	16.88	17.11	17.43	17.63	18.15
12H	4H	16.95	17.36	17.44	17.81	18.33	17.07	17.47	17.56	17.93	18.45
	6H	16.83	17.12	17.36	17.65	18.15	16.94	17.24	17.48	17.76	18.26
	8H	16.77	16.99	17.31	17.51	18.04	16.88	17.11	17.43	17.63	18.15
Variation with the observer position at spacings:											
S = 1.0H		5.3/-19.5					5.0/-20.1				
S = 1.5H		8.1/-20.2					7.9/-20.4				
S = 2.0H		10.1/-20.5					9.8/-20.6				
Standard tables:		BK0					BK0				
Uncorrected UGR		-1.2					-1.3				

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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.94	0.92
2	1.01	0.98	0.95	1.00	0.96	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.88	0.86
3	0.95	0.91	0.87	0.94	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.81
4	0.90	0.85	0.81	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.76
5	0.85	0.79	0.75	0.84	0.79	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.72
6	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
7	0.76	0.70	0.67	0.75	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.64
8	0.72	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.61
9	0.68	0.63	0.59	0.68	0.63	0.59	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	0.56	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55



Luminaire Lumens:

FL=1451.2,FM=424.47,FH=3.31,FVH=0.55

BL=1461.32,BM=426.6,BH=3.29,BVH=0.54

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	6190.86	6175.41	6151.96	6109.33	6066.69	5976.63	5909.49	5808.77	5692.60
45.0	6186.60	6197.79	6186.06	6157.29	6118.38	6059.23	5985.69	5899.90	5800.24
90.0	6188.73	6164.21	6125.85	6071.49	6030.46	5958.51	5840.21	5771.47	5657.96
135.0	6197.79	6188.73	6172.74	6129.58	6080.55	6021.93	5952.65	5860.46	5753.88
180.0	6190.86	6179.14	6170.61	6141.30	6086.41	6032.05	5956.38	5870.59	5756.55
225.0	6186.60	6170.61	6139.70	6092.27	6058.70	5951.59	5857.26	5792.25	5613.73
270.0	6188.73	6196.19	6197.79	6179.14	6152.49	6110.92	6050.17	5981.43	5889.77
315.0	6197.79	6202.58	6196.72	6170.61	6135.44	6082.15	6014.47	5927.61	5827.42
360.0	6190.86	6175.41	6151.96	6109.33	6066.69	5976.63	5909.49	5808.77	5692.60

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5553.51	5395.77	5221.51	5024.34	4820.24	4602.28	4363.55	4124.27	3883.40
45.0	5680.87	5548.71	5387.25	5209.26	5009.42	4797.86	4570.84	4381.66	4091.77
90.0	5516.21	5365.40	5197.53	5017.95	4815.44	4611.34	4398.72	4183.96	3965.47
135.0	5632.38	5490.10	5339.28	5177.28	4992.90	4795.19	4592.16	4385.39	4172.77
180.0	5647.83	5512.48	5356.34	5184.74	4996.10	4798.92	4585.76	4374.74	4153.05
225.0	5524.73	5365.93	5186.34	4992.37	4782.94	4565.51	4341.70	4099.23	3859.95
270.0	5777.86	5648.37	5501.29	5333.96	5150.11	4949.74	4823.97	4511.69	4278.28
315.0	5703.79	5563.10	5398.97	5216.72	5020.61	4810.12	4588.43	4359.81	4129.60
360.0	5553.51	5395.77	5221.51	5024.34	4820.24	4602.28	4363.55	4124.27	3883.40

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3642.00	3396.86	3159.19	2934.31	2715.82	2511.72	2318.27	2211.16	1984.15
45.0	3890.86	3636.14	3384.61	3131.48	2883.68	2643.34	2414.73	2205.83	2008.13
90.0	3752.31	3537.55	3320.66	3112.83	2909.26	2709.42	2518.65	2372.63	2206.37
135.0	3954.28	3735.26	3605.23	3310.53	3188.50	2992.39	2733.94	2627.89	2460.56
180.0	3928.70	3793.87	3478.40	3341.98	3123.49	2909.79	2701.43	2496.26	2308.68
225.0	3610.56	3362.76	3116.03	2872.49	2629.49	2405.14	2196.24	2083.80	1839.20
270.0	4139.73	3905.78	3668.64	3434.70	3209.82	2992.39	2787.23	2588.99	2402.47
315.0	3896.19	3661.72	3437.90	3305.21	3094.18	2822.40	2712.09	2540.49	2380.62
360.0	3642.00	3396.86	3159.19	2934.31	2715.82	2511.72	2318.27	2211.16	1984.15

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1841.86	1764.06	1606.32	1547.70	1462.97	1385.17	1318.55	1261.00	1058.29
45.0	1831.20	1676.66	1552.50	1448.58	1352.66	1280.72	1211.44	1153.89	1103.80
90.0	2021.98	1912.21	1786.97	1672.93	1573.81	1480.56	1400.09	1326.55	1004.84
135.0	2301.75	2152.54	2016.12	1889.29	1774.72	1670.80	1572.75	1486.42	1402.75
180.0	2130.69	1966.03	1822.14	1688.92	1578.08	1483.22	1395.29	1321.22	1259.40
225.0	1695.31	1616.98	1509.87	1423.00	1343.07	1260.47	1199.72	1019.54	1019.54
270.0	2233.01	2079.54	1939.38	1813.09	1699.58	1602.06	1514.66	1433.13	1361.72
315.0	2231.95	2095.52	1972.42	1859.98	1757.66	1664.41	1577.01	1499.21	1424.07
360.0	1841.86	1764.06	1606.32	1547.70	1462.97	1385.17	1318.55	1261.00	1058.29

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1058.29	913.12	764.82	605.27	450.30	306.15	200.69	96.14	33.52
45.0	1022.79	967.91	848.54	719.04	579.96	441.93	311.91	265.54	159.66
90.0	1004.84	908.91	747.39	578.52	482.81	276.04	153.53	96.67	46.42
135.0	1273.26	1119.25	951.92	777.66	605.53	507.48	297.52	297.52	160.03
180.0	1182.13	1108.59	908.75	819.76	659.36	503.22	356.67	302.31	161.63
225.0	917.65	787.36	648.06	503.54	376.07	258.03	152.25	99.33	40.07
270.0	1290.31	1168.28	1023.86	896.50	732.36	535.72	412.62	275.67	275.67
315.0	1306.30	998.39	998.39	863.40	690.05	518.03	366.58	232.93	133.38
360.0	1058.29	913.12	764.82	605.27	450.30	306.15	200.69	96.14	33.52

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	25.74	20.30	17.00	14.44	12.74	11.51	10.55	9.65	8.90
45.0	43.86	29.20	22.65	18.86	16.04	13.96	12.31	11.08	9.54
90.0	40.71	32.13	26.54	22.01	19.13	16.68	14.81	13.22	11.78
135.0	73.38	59.95	49.24	40.82	34.48	29.74	25.79	22.38	19.56
180.0	38.85	28.35	21.85	18.17	15.19	13.32	11.94	10.87	10.07
225.0	35.17	28.08	23.87	20.30	17.59	15.03	12.74	10.76	9.27
270.0	67.78	42.69	33.84	27.39	22.49	18.92	16.31	14.23	12.42
315.0	85.85	71.89	60.22	51.11	43.70	37.89	32.88	28.67	25.10
360.0	25.74	20.30	17.00	14.44	12.74	11.51	10.55	9.65	8.90
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.10	7.46	6.93	6.39	6.02	5.65	5.28	4.90	4.53
45.0	8.79	8.10	7.41	7.03	6.55	6.18	5.81	5.44	5.12
90.0	10.55	9.49	8.63	7.83	7.19	6.66	6.13	5.76	5.22
135.0	17.11	15.03	13.27	11.78	10.60	9.91	8.63	8.21	7.41
180.0	9.22	8.79	7.89	7.51	6.98	6.34	6.18	5.81	5.44
225.0	8.31	7.67	7.14	6.71	6.34	6.02	5.70	5.33	4.90
270.0	11.46	9.49	8.79	7.78	6.61	6.23	5.65	5.17	4.80
315.0	21.90	19.18	16.89	15.67	13.22	11.78	11.03	9.54	8.85
360.0	8.10	7.46	6.93	6.39	6.02	5.65	5.28	4.90	4.53
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.10	3.84	3.52	3.46	3.14	2.93	2.66	2.40	2.24
45.0	4.74	4.42	4.05	3.73	3.52	3.30	2.98	2.66	2.45
90.0	4.74	4.48	4.05	3.73	3.36	3.04	2.72	2.45	2.34
135.0	6.66	6.08	5.54	5.06	4.58	4.05	3.68	3.36	3.09
180.0	5.06	4.69	4.32	3.94	3.68	3.41	3.04	2.77	2.50
225.0	4.58	4.32	3.89	3.78	3.52	3.20	2.98	2.77	2.56
270.0	4.42	4.05	3.78	3.57	3.36	3.09	2.82	2.61	2.45
315.0	7.94	7.14	6.34	5.70	5.12	4.58	4.10	3.62	3.30
360.0	4.10	3.84	3.52	3.46	3.14	2.93	2.66	2.40	2.24
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.18	2.13	1.97	1.81	1.71	1.55	1.49	1.39	1.28
45.0	2.29	2.18	2.03	1.92	1.81	1.76	1.71	1.55	1.44
90.0	2.18	2.08	1.97	1.81	1.71	1.60	1.49	1.39	1.33
135.0	2.88	2.77	2.61	2.40	2.18	2.13	1.97	1.87	1.81
180.0	2.40	2.24	2.13	1.92	1.87	1.65	1.60	1.44	1.28
225.0	2.45	2.34	2.18	2.03	1.97	1.81	1.65	1.60	1.49
270.0	2.29	2.18	2.08	1.97	1.81	1.71	1.65	1.60	1.44
315.0	3.09	2.93	2.72	2.50	2.29	2.08	1.97	1.71	1.60
360.0	2.18	2.13	1.97	1.81	1.71	1.55	1.49	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	1.28	1.17	1.07	1.01	1.01	0.96	0.91	0.80	0.59
45.0	1.39	1.28	1.23	1.23	1.12	1.01	0.85	0.80	0.69
90.0	1.23	1.17	1.07	1.01	1.01	0.91	0.85	0.75	0.69
135.0	1.60	1.55	1.49	1.39	1.28	1.17	1.01	0.91	0.85
180.0	1.23	1.17	1.01	0.96	0.85	0.80	0.69	0.64	0.59
225.0	1.39	1.33	1.23	1.12	0.96	0.85	0.64	0.53	0.53
270.0	1.33	1.23	1.17	1.01	0.96	0.85	0.75	0.69	0.64
315.0	1.44	1.39	1.28	1.23	1.12	0.96	0.85	0.69	0.64
360.0	1.28	1.17	1.07	1.01	1.01	0.96	0.91	0.80	0.59

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.59
45.0	0.59
90.0	0.59
135.0	0.53
180.0	0.48
225.0	0.37
270.0	0.53
315.0	0.64
360.0	0.59