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NT

Client: NT
LumCAT: 62-0070
Luminaire: 92.70.429.00
Report No: 2024724-B011
Ballast type: AC
Test No: 2024724-C011
LampCAT: CREE CXA1820 LES12
Lamp flux(lm): 3022.2
Number of Lamps: 1
Length(mm): 68
Phm Type: C
Voltage(V): 35.180
Current(A): 0.544
Power (W): 19.137
PF: 0.000
Width(mm): 68
Height(mm): 34

Photometric Results

Lumens(lm): 2849.91, Efficiency(%): 94.30% , Luminous Efficacy(lm/W): 148.92
Central intensity(cd): 13937.720, Maximum intensity(cd): 13937.720
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=23.6
[C90/270]Total=23.6
Field angle(10%Imax): [C0/180]Total=40.2
[C90/270]Total=40.2
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.30%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.072%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13937.719	0.000	0	0.00%	0.00%
1.0	13871.881	13.306	13.306	0.44%	0.47%
2.0	13695.582	39.567	52.874	1.31%	1.86%
3.0	13406.627	64.820	117.693	2.14%	4.13%
4.0	12622.521	87.128	204.821	2.88%	7.19%
5.0	12232.987	106.927	311.748	3.54%	10.94%
6.0	11853.103	126.579	438.327	4.19%	15.38%
7.0	11166.122	142.880	581.207	4.73%	20.39%
8.0	10362.096	154.073	735.28	5.10%	25.80%
9.0	9509.643	161.050	896.33	5.33%	31.45%
10.0	8593.546	163.827	1060.157	5.42%	37.20%
11.0	7693.982	162.746	1222.903	5.39%	42.91%
12.0	6762.012	158.025	1380.928	5.23%	48.46%
13.0	5830.041	149.436	1530.364	4.94%	53.70%
14.0	5000.923	138.635	1668.999	4.59%	58.56%
15.0	4202.457	126.348	1795.347	4.18%	63.00%
16.0	3491.189	112.733	1908.081	3.73%	66.95%
17.0	2807.280	98.084	2006.165	3.25%	70.39%
18.0	2446.416	86.622	2092.787	2.87%	73.43%
19.0	1910.306	75.798	2168.585	2.51%	76.09%
20.0	1406.354	60.704	2229.289	2.01%	78.22%
21.0	1157.524	49.232	2278.521	1.63%	79.95%
22.0	923.836	41.826	2320.347	1.38%	81.42%
23.0	745.013	35.017	2355.364	1.16%	82.65%
24.0	601.019	29.429	2384.793	0.97%	83.68%
25.0	482.423	24.635	2409.428	0.82%	84.54%
26.0	396.783	20.754	2430.181	0.69%	85.27%
27.0	336.314	17.935	2448.117	0.59%	85.90%
28.0	287.777	15.801	2463.918	0.52%	86.46%
29.0	263.805	14.431	2478.348	0.48%	86.96%
30.0	236.504	13.508	2491.857	0.45%	87.44%
31.0	197.740	12.084	2503.941	0.40%	87.86%
32.0	181.478	10.864	2514.805	0.36%	88.24%
33.0	167.052	10.268	2525.073	0.34%	88.60%
34.0	154.851	9.742	2534.815	0.32%	88.94%
35.0	144.755	9.305	2544.12	0.31%	89.27%
36.0	137.235	8.979	2553.098	0.30%	89.59%
37.0	131.032	8.749	2561.848	0.29%	89.89%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	125.984	8.579	2570.426	0.28%	90.19%
39.0	121.932	8.462	2578.888	0.28%	90.49%
40.0	118.215	8.375	2587.264	0.28%	90.78%
41.0	114.741	8.295	2595.559	0.27%	91.08%
42.0	111.178	8.208	2603.767	0.27%	91.36%
43.0	108.186	8.126	2611.893	0.27%	91.65%
44.0	105.626	8.070	2619.963	0.27%	91.93%
45.0	103.300	8.029	2627.992	0.27%	92.21%
46.0	100.820	7.983	2635.975	0.26%	92.49%
47.0	98.493	7.927	2643.902	0.26%	92.77%
48.0	96.306	7.875	2651.777	0.26%	93.05%
49.0	93.929	7.812	2659.589	0.26%	93.32%
50.0	91.515	7.732	2667.321	0.26%	93.59%
51.0	89.313	7.651	2674.971	0.25%	93.86%
52.0	87.242	7.576	2682.548	0.25%	94.13%
53.0	85.019	7.493	2690.041	0.25%	94.39%
54.0	82.253	7.373	2697.414	0.24%	94.65%
55.0	79.254	7.209	2704.623	0.24%	94.90%
56.0	76.533	7.040	2711.663	0.23%	95.15%
57.0	73.621	6.865	2718.528	0.23%	95.39%
58.0	70.681	6.673	2725.201	0.22%	95.62%
59.0	67.901	6.479	2731.68	0.21%	95.85%
60.0	65.238	6.290	2737.97	0.21%	96.07%
61.0	62.700	6.105	2744.075	0.20%	96.29%
62.0	60.073	5.916	2749.991	0.20%	96.49%
63.0	57.242	5.706	2755.697	0.19%	96.69%
64.0	54.799	5.498	2761.194	0.18%	96.89%
65.0	52.502	5.310	2766.505	0.18%	97.07%
66.0	50.461	5.137	2771.642	0.17%	97.25%
67.0	48.127	4.957	2776.599	0.16%	97.43%
68.0	46.145	4.776	2781.375	0.16%	97.60%
69.0	44.177	4.608	2785.983	0.15%	97.76%
70.0	42.187	4.436	2790.418	0.15%	97.91%
71.0	40.337	4.265	2794.683	0.14%	98.06%
72.0	38.647	4.107	2798.79	0.14%	98.21%
73.0	37.103	3.961	2802.751	0.13%	98.35%
74.0	35.662	3.825	2806.577	0.13%	98.48%
75.0	34.133	3.688	2810.265	0.12%	98.61%

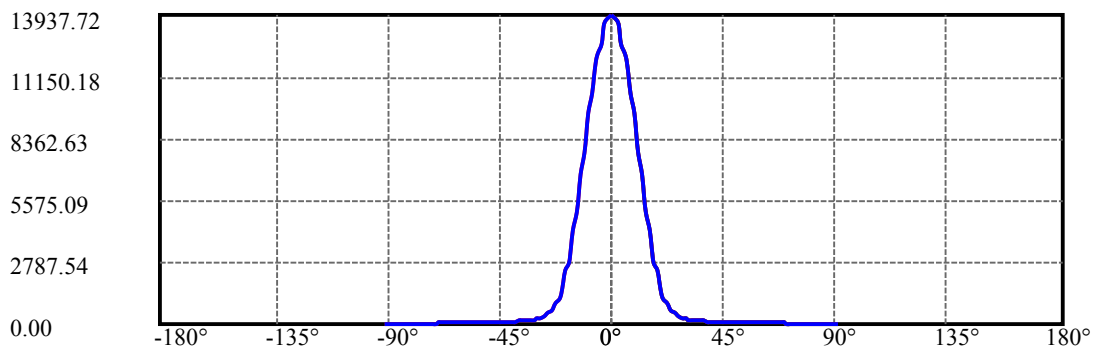
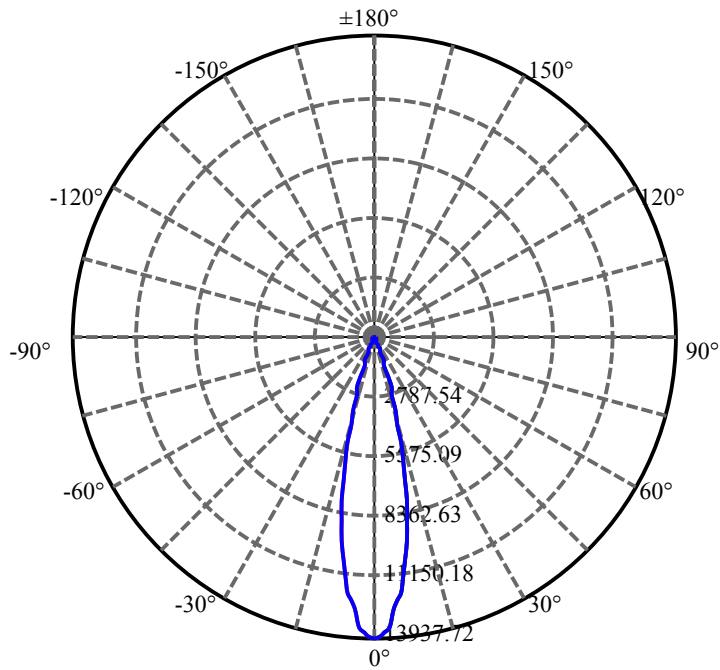
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	32.597	3.542	2813.807	0.12%	98.73%
77.0	31.214	3.402	2817.209	0.11%	98.85%
78.0	29.898	3.271	2820.48	0.11%	98.97%
79.0	28.530	3.139	2823.62	0.10%	99.08%
80.0	27.257	3.008	2826.627	0.10%	99.18%
81.0	26.247	2.893	2829.521	0.10%	99.28%
82.0	25.070	2.783	2832.304	0.09%	99.38%
83.0	23.555	2.643	2834.947	0.09%	99.47%
84.0	21.953	2.479	2837.426	0.08%	99.56%
85.0	20.658	2.326	2839.752	0.08%	99.64%
86.0	19.547	2.198	2841.949	0.07%	99.72%
87.0	18.720	2.094	2844.044	0.07%	99.79%
88.0	18.010	2.012	2846.056	0.07%	99.86%
89.0	17.513	1.947	2848.003	0.06%	99.93%
90.0	17.308	1.909	2849.912	0.06%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2491.86	82.45%	87.44%
0-40	2587.26	85.61%	90.78%
0-60	2737.97	90.60%	96.07%
0-90	2848.00	94.24%	99.93%
0-120	2848.00	94.24%	99.93%
0-180	2849.91	94.30%	100.00%
60-90	110.03	3.64%	3.86%
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%
0-21.03	2279.93	75.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	1060.16
10-20	1169.13
20-30	262.57
30-40	95.41
40-50	80.06
50-60	70.65
60-70	52.45
70-80	36.21
80-90	21.38
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



C0(Max): —————

C0/C180: —————

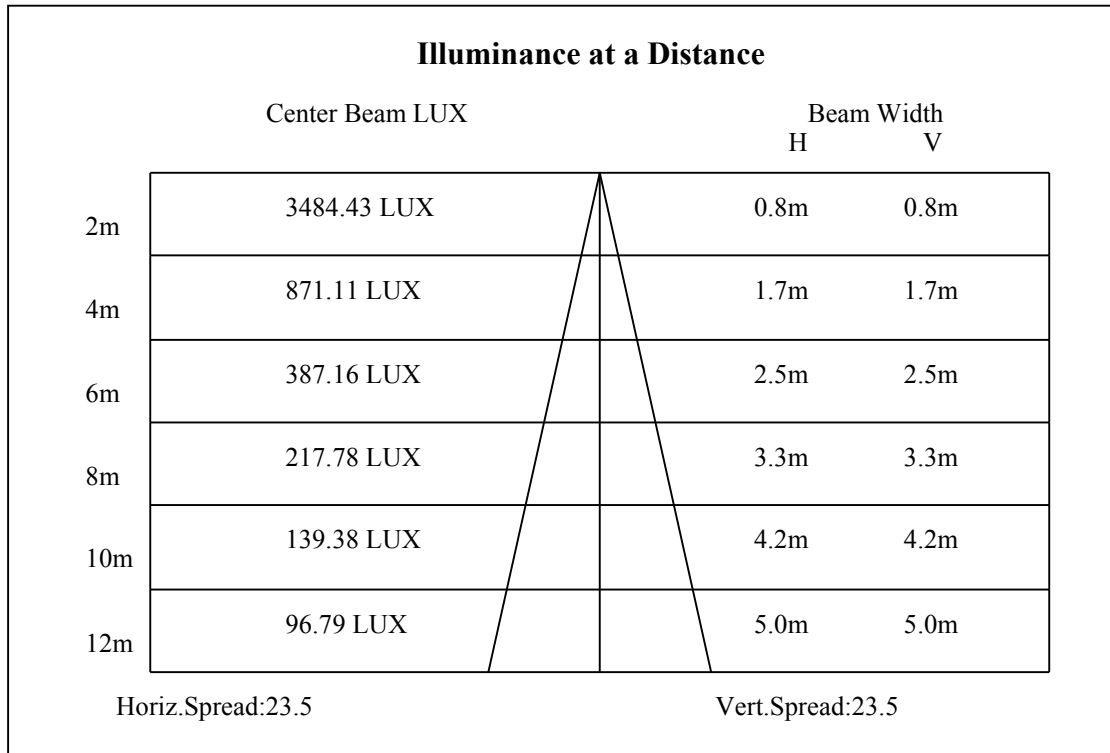
C90/C270: —————

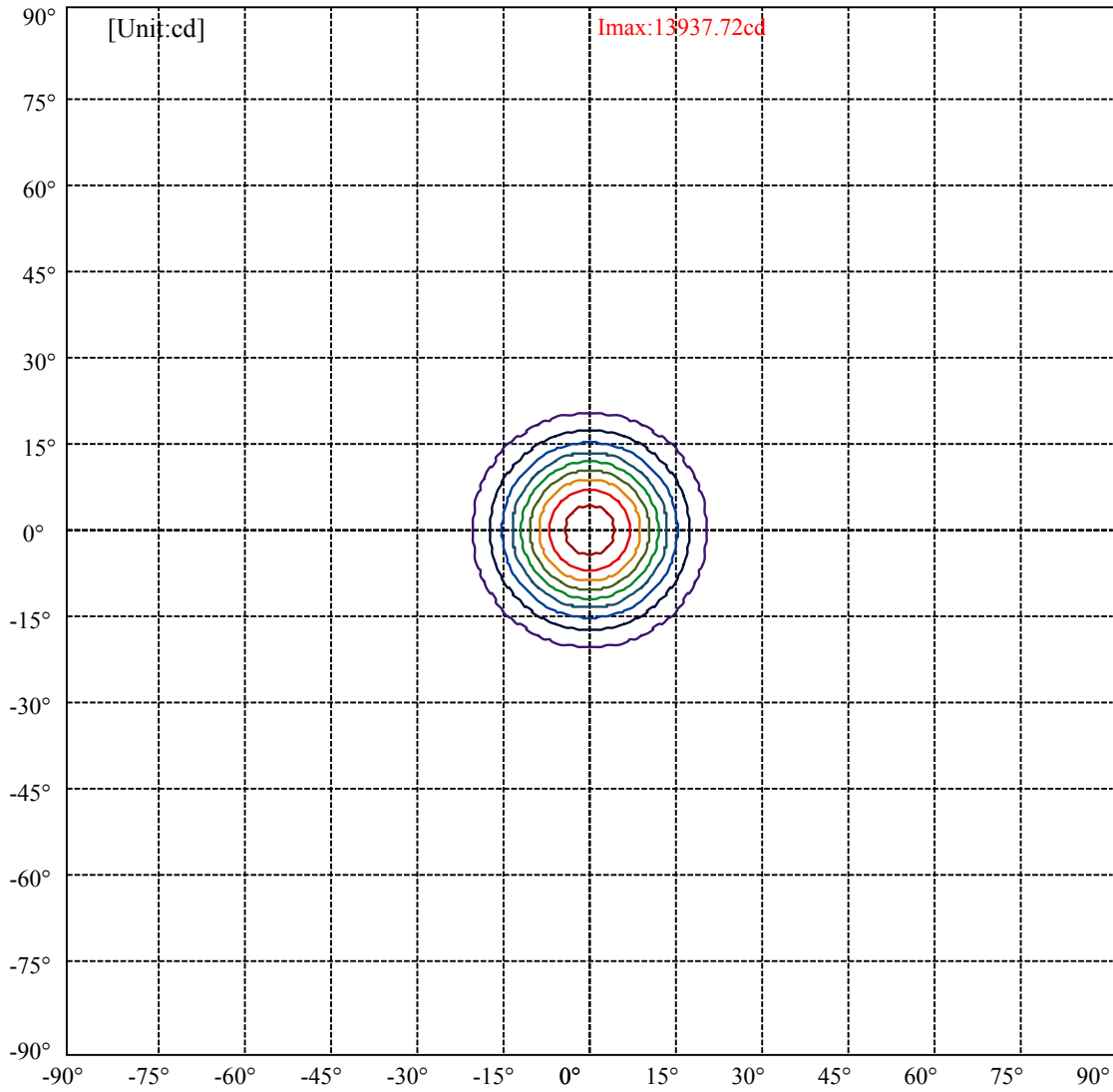
Field angle(10%Imax):C0/180Left:20.1 Right:20.1

:C90/270Left:20.1 Right:20.1

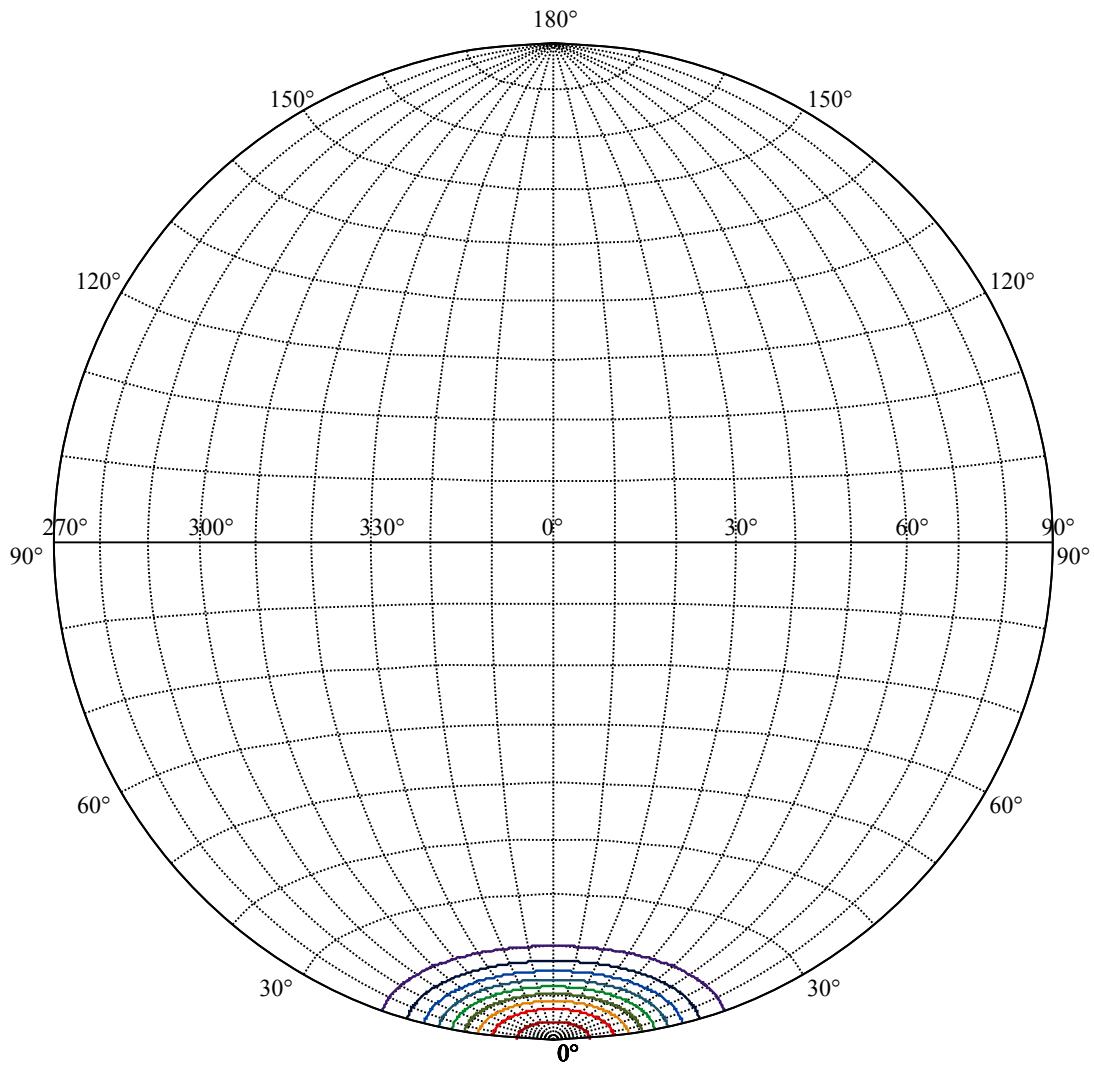
Beam Angle(50%Imax):C0/180Left:11.8 Right:11.8

:C90/270Left:11.8 Right:11.8





(10%Imax) 1393.77	—
(20%Imax) 2787.54	—
(30%Imax) 4181.32	—
(40%Imax) 5575.09	—
(50%Imax) 6968.86	—
(60%Imax) 8362.63	—
(70%Imax) 9756.4	—
(80%Imax) 11150.2	—
(90%Imax) 12543.9	—



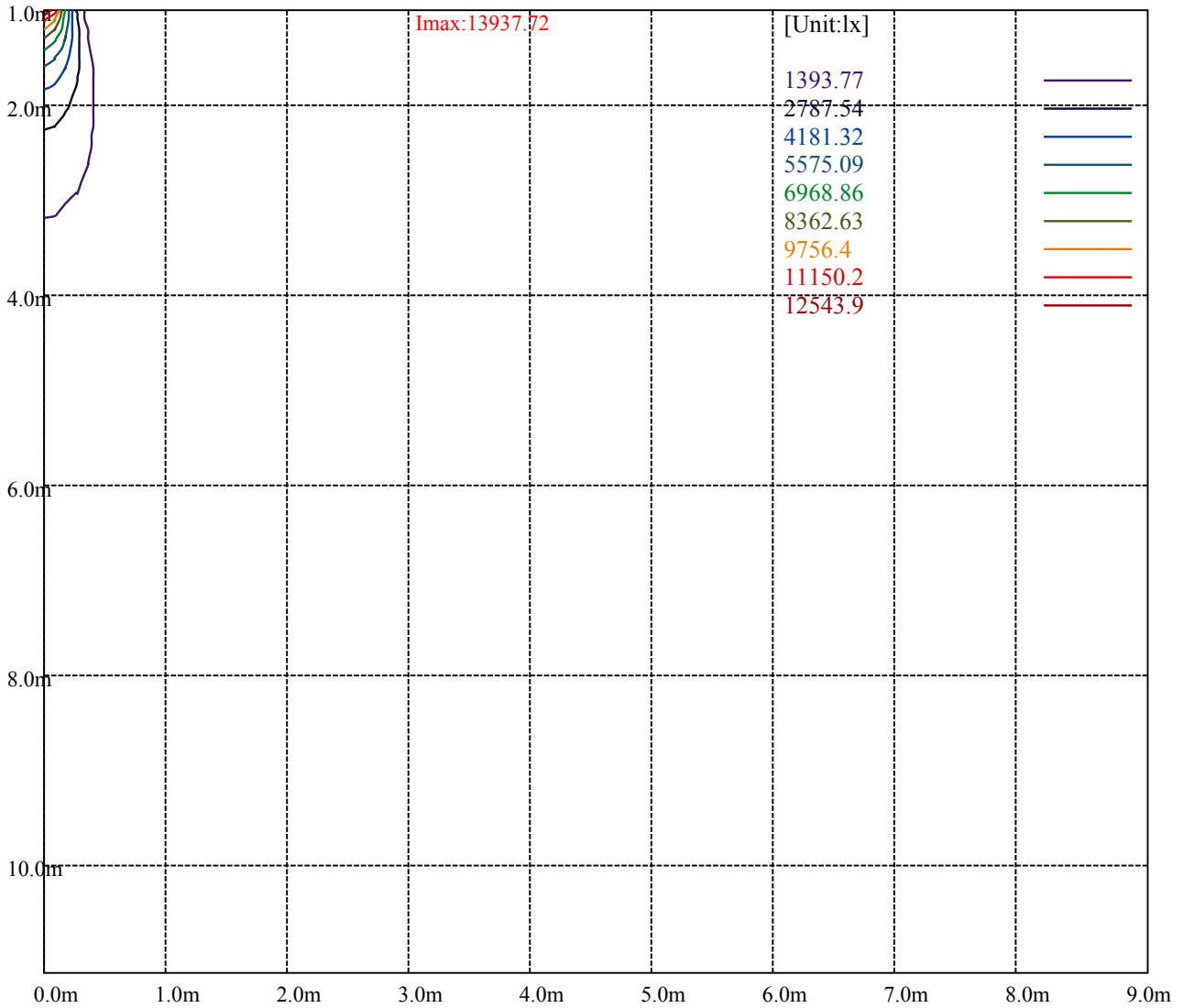
House

[Unit:cd]

Road

Imax:13937.72

(10%Imax)	1393.77	—
(20%Imax)	2787.54	—
(30%Imax)	4181.32	—
(40%Imax)	5575.09	—
(50%Imax)	6968.86	—
(60%Imax)	8362.63	—
(70%Imax)	9756.4	—
(80%Imax)	11150.2	—
(90%Imax)	12543.9	—



Luminance Table

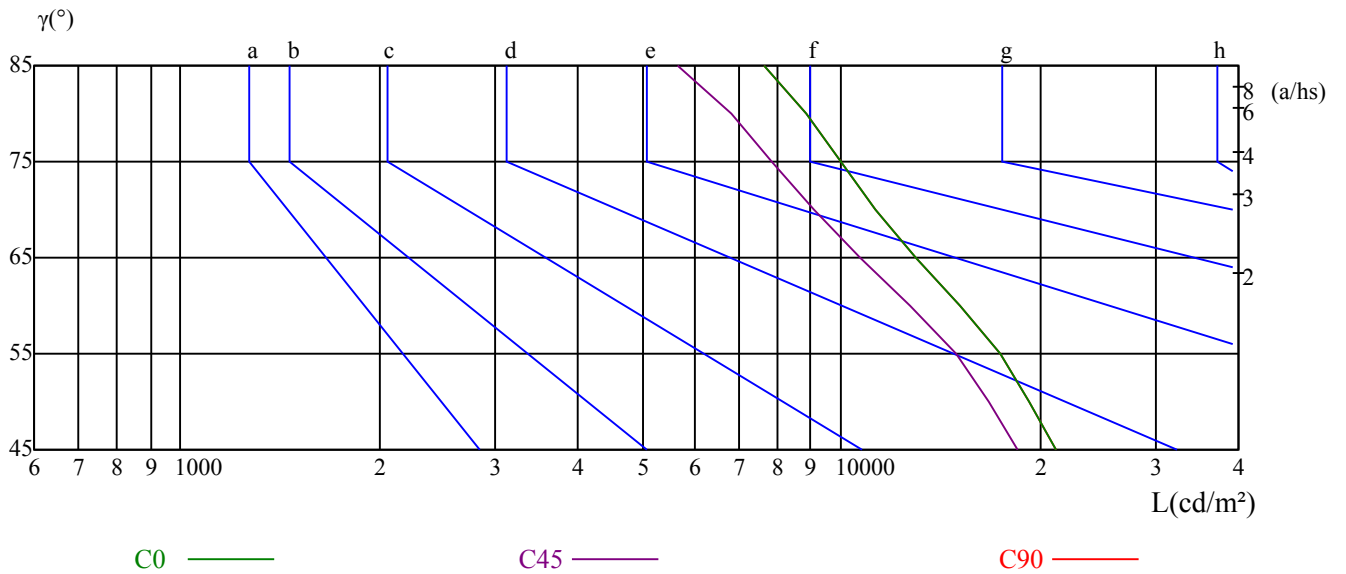
γ	45	50	55	60	65	70	75	80	85
C0	21104	19336	17476	15163	13004	11276	9990	8889	7672
C45	18552	16754	14912	12725	10715	9100	7871	6807	5674
C90	21104	19336	17476	15163	13004	11276	9990	8889	7672

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
26866	26866	26866	28521	28521	28521	51261	51261	51261

Glare Table

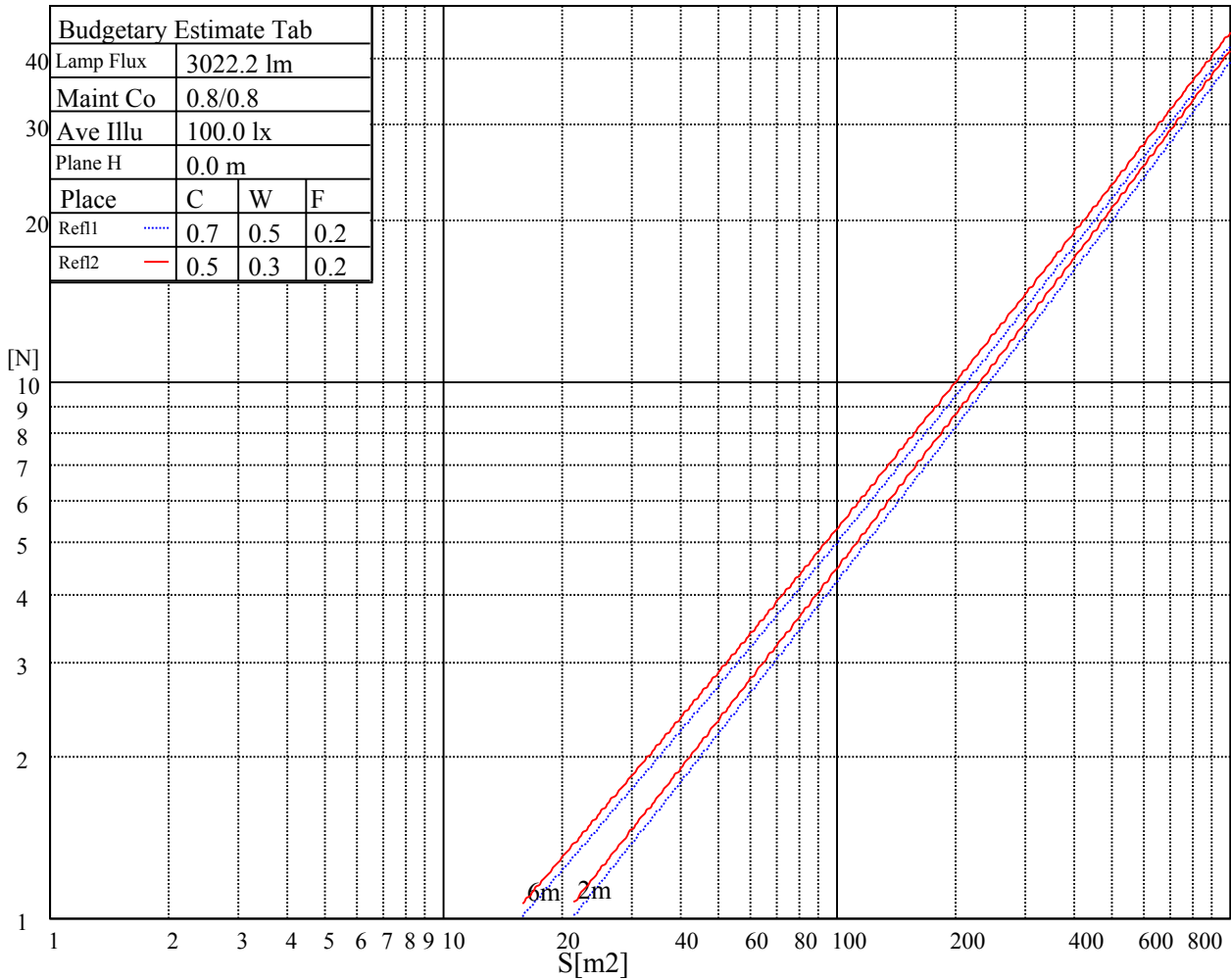
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

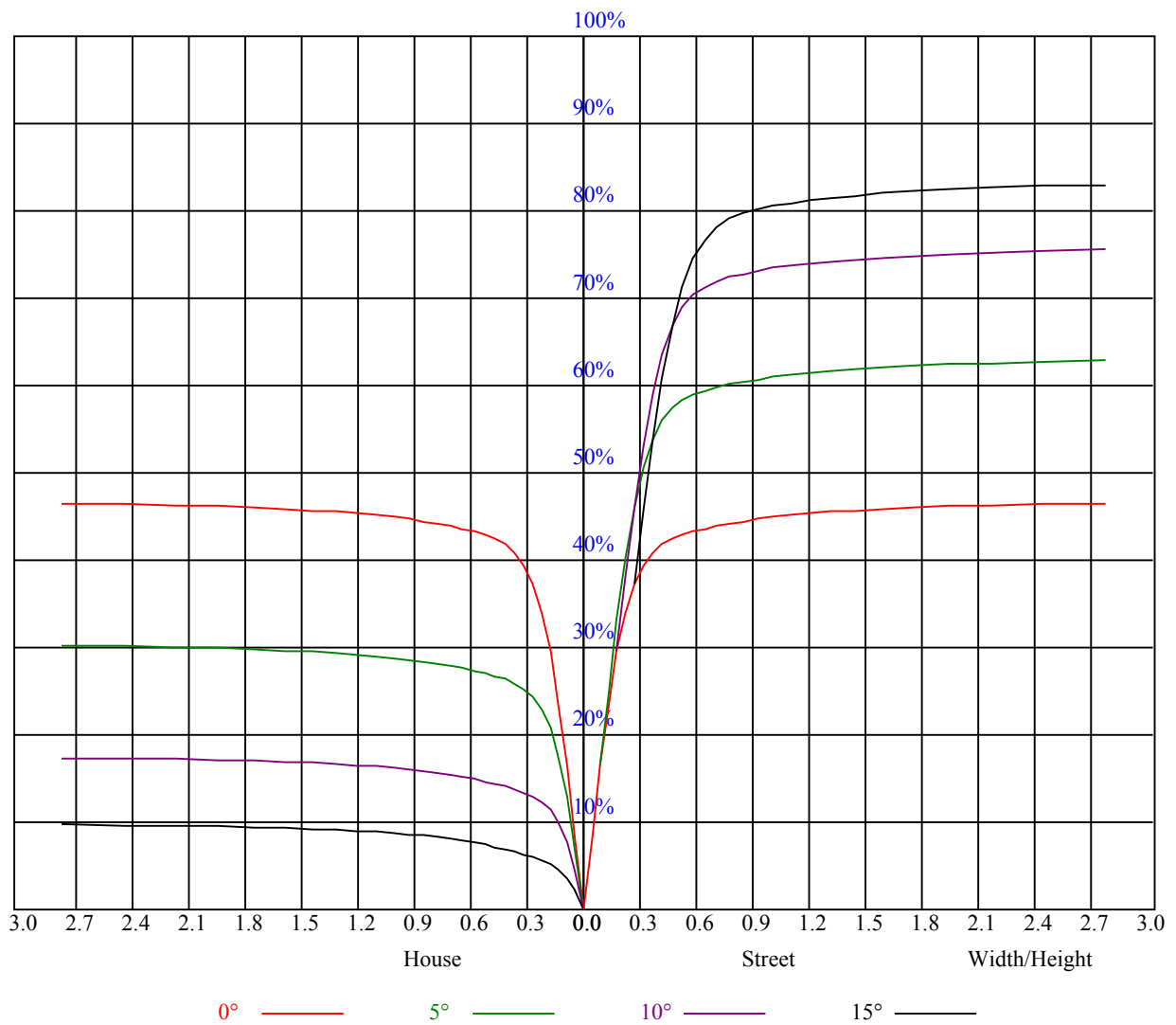


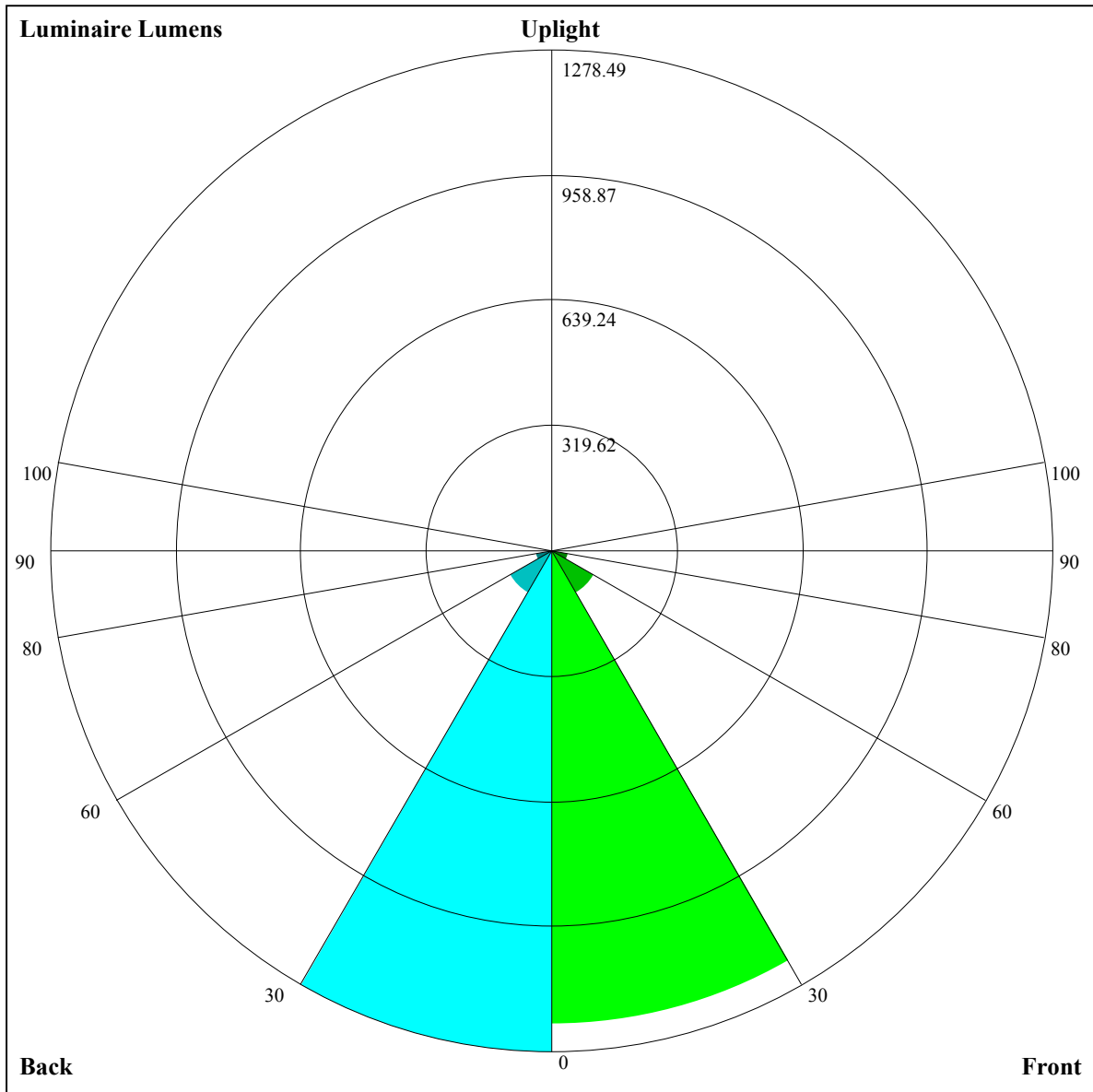
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.00	17.02	16.36	17.33	17.65	15.98	17.00	16.34	17.31	17.63
	3H	17.34	18.26	17.73	18.59	18.94	17.34	18.25	17.72	18.59	18.93
	4H	17.91	18.76	18.31	19.12	19.48	17.93	18.78	18.33	19.14	19.50
	6H	18.48	19.25	18.89	19.63	20.03	18.51	19.28	18.92	19.66	20.06
	8H	18.72	19.46	19.14	19.85	20.26	18.75	19.50	19.17	19.88	20.29
	12H	18.93	19.63	19.35	20.03	20.44	18.96	19.66	19.38	20.06	20.47
4H	2H	16.51	17.36	16.91	17.71	18.08	16.50	17.35	16.90	17.70	18.07
	3H	18.00	18.71	18.42	19.11	19.52	18.00	18.71	18.42	19.11	19.52
	4H	18.74	19.36	19.18	19.79	20.23	18.77	19.39	19.20	19.81	20.26
	6H	19.40	19.95	19.87	20.40	20.86	19.44	19.99	19.91	20.44	20.89
	8H	19.74	20.25	20.22	20.71	21.18	19.77	20.28	20.26	20.74	21.22
	12H	20.04	20.51	20.53	20.96	21.48	20.07	20.54	20.56	20.99	21.51
8H	4H	18.95	19.46	19.44	19.92	20.39	18.98	19.49	19.46	19.94	20.42
	6H	19.78	20.20	20.28	20.68	21.19	19.81	20.23	20.31	20.71	21.22
	8H	20.27	20.63	20.81	21.15	21.65	20.31	20.66	20.84	21.18	21.68
	12H	20.69	20.97	21.23	21.49	22.01	20.72	21.00	21.26	21.51	22.04
12H	4H	18.98	19.45	19.46	19.90	20.42	19.00	19.47	19.49	19.92	20.44
	6H	19.90	20.25	20.43	20.78	21.27	19.93	20.28	20.46	20.80	21.30
	8H	20.41	20.69	20.95	21.20	21.72	20.44	20.72	20.98	21.23	21.75
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.7					0.2/-0.7					
S = 1.5H	0.5/-0.7					0.5/-0.7					
S = 2.0H	0.8/-0.9					0.8/-0.9					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.5					4.5					

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 RHOF=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	1.00	0.96	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.82
4	0.91	0.87	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
7	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.75	0.72	0.78	0.74	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.70
9	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
10	0.75	0.71	0.68	0.74	0.70	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66





Luminaire Lumens:

FL=1208.38,FM=122.17,FH=43.71,FVH=11.44

BL=1278.49,BM=124.56,BH=44.71,BVH=11.81

UL=0,UH=0

BUG Rating:B3-U0-G1

Intensity data(cd)										Appendix Page: 18 Total:20
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	
0.0	13926.01	13785.56	13551.47	13112.55	11679.98	11679.98	11357.52	10615.45	9827.16	
45.0	13961.13	13978.68	13855.79	13680.22	13270.56	12849.20	12340.05	11754.83	10900.40	
90.0	13961.13	13879.20	13686.07	13399.31	13018.92	11658.33	11658.33	11143.91	10202.29	
135.0	13902.61	13972.83	13926.01	13709.48	13434.43	13059.88	12451.25	11883.58	11070.12	
180.0	13926.01	13961.13	13861.64	13650.96	13334.94	12837.50	12328.35	11737.27	11058.41	
225.0	13961.13	13791.41	13522.21	13188.63	11633.16	11633.16	11451.74	10548.15	9735.28	
270.0	13961.13	13926.01	13768.00	13510.50	13083.29	12620.96	12088.41	11257.39	10531.71	
315.0	13902.61	13680.22	13393.46	13001.36	11524.89	11524.89	11149.18	10388.39	9571.41	
360.0	13926.01	13785.56	13551.47	13112.55	11679.98	11679.98	11357.52	10615.45	9827.16	
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	
0.0	8772.00	7912.89	7043.24	6201.10	5179.30	4409.14	3683.46	3018.06	2342.13	
45.0	10116.20	9302.74	8249.33	7383.20	6312.24	5492.92	4679.46	3924.52	3052.53	
90.0	9389.99	8543.76	7475.72	6592.03	5755.75	4763.20	4024.07	3329.99	2720.18	
135.0	10332.73	9566.09	8735.07	7898.20	6856.50	6013.77	5217.87	4462.93	3544.12	
180.0	10127.90	9320.29	8471.72	7406.61	6546.33	5703.60	4714.57	3994.75	3122.76	
225.0	8900.16	7806.37	6965.41	6125.61	5116.68	4341.84	3620.26	2961.88	2290.63	
270.0	9718.25	8647.28	7792.86	6704.34	5867.47	5024.74	4281.51	3444.63	3105.20	
315.0	8719.91	7648.95	6818.51	5785.01	5006.07	4258.16	3398.46	2792.75	2280.68	
360.0	8772.00	7912.89	7043.24	6201.10	5179.30	4409.14	3683.46	3018.06	2342.13	
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	
0.0	1906.72	1123.69	1123.69	962.17	740.60	604.83	498.85	419.20	337.97	
45.0	3052.53	2442.79	1679.07	1295.75	1047.61	842.78	677.75	520.32	424.93	
90.0	2119.16	1476.00	1159.27	1159.27	901.60	736.56	599.56	469.29	389.82	
135.0	3064.24	3064.24	1860.49	1519.30	1241.91	962.75	781.33	609.28	500.43	
180.0	2970.60	2970.60	1665.61	1278.19	1031.22	834.59	683.02	536.12	444.24	
225.0	1862.83	1159.68	1159.68	932.67	746.16	604.65	468.12	392.33	336.74	
270.0	3105.20	1887.99	1445.56	1174.61	953.98	774.90	601.67	496.33	399.18	
315.0	1490.04	1157.46	1157.46	938.23	727.61	599.04	497.85	416.50	340.95	
360.0	1906.72	1123.69	1123.69	962.17	740.60	604.83	498.85	419.20	337.97	
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	
0.0	291.79	258.20	231.05	204.30	187.15	174.34	163.51	152.39	143.44	
45.0	357.05	296.77	296.77	253.29	205.41	188.74	170.77	158.60	146.48	
90.0	329.54	274.12	241.64	215.36	189.09	172.76	160.12	149.17	139.99	
135.0	414.98	345.34	295.60	295.60	222.09	202.96	181.65	166.26	153.27	
180.0	374.02	320.18	297.94	297.94	212.38	190.78	177.15	164.51	152.16	
225.0	283.19	250.71	224.55	197.57	179.25	164.74	153.86	142.79	135.60	
270.0	343.59	297.35	297.35	223.03	202.25	186.22	169.07	157.13	147.13	
315.0	296.36	259.55	225.55	204.95	184.29	171.30	160.29	147.94	139.99	
360.0	291.79	258.20	231.05	204.30	187.15	174.34	163.51	152.39	143.44	
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	
0.0	134.19	128.63	124.24	119.80	116.11	113.24	109.32	106.69	104.35	
45.0	137.47	129.51	125.00	121.38	118.27	114.59	111.78	109.38	106.51	
90.0	134.54	128.81	122.31	118.27	115.29	112.71	110.20	107.92	105.40	
135.0	143.97	136.53	131.73	127.40	122.84	119.27	114.35	110.90	108.38	
180.0	142.33	134.78	127.93	123.37	119.56	116.52	112.66	110.72	108.97	
225.0	130.56	126.64	123.19	119.50	115.17	111.31	108.33	104.87	101.89	
270.0	140.57	134.43	129.63	125.53	121.32	116.11	111.95	107.74	103.99	
315.0	134.25	128.93	123.83	120.21	117.16	114.18	110.84	107.27	105.52	
360.0	134.19	128.63	124.24	119.80	116.11	113.24	109.32	106.69	104.35	

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	102.30	99.84	97.67	95.51	93.64	90.77	88.66	86.26	83.45
45.0	104.23	102.30	99.90	97.85	95.45	92.70	90.83	88.31	85.97
90.0	102.77	100.42	97.26	95.27	93.23	91.35	90.18	89.66	88.43
135.0	106.28	103.53	101.65	99.78	97.15	94.86	92.70	90.48	88.25
180.0	106.63	103.47	101.13	98.79	95.68	93.34	90.83	88.72	86.44
225.0	99.78	97.73	95.45	93.40	91.41	89.48	87.02	84.92	82.63
270.0	101.83	98.96	97.09	94.98	92.29	89.36	86.91	84.62	82.52
315.0	102.59	100.31	97.79	94.86	92.58	90.24	87.37	84.97	82.46
360.0	102.30	99.84	97.67	95.51	93.64	90.77	88.66	86.26	83.45
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	81.11	77.89	75.26	72.68	70.17	66.89	64.61	62.27	59.58
45.0	83.10	80.82	78.36	75.67	71.98	69.64	67.53	64.55	61.98
90.0	84.80	78.65	75.26	71.92	68.30	65.78	62.85	60.45	58.23
135.0	85.27	82.98	79.88	77.54	74.79	71.16	68.59	65.95	63.67
180.0	83.51	81.23	78.83	76.20	73.21	70.75	68.18	65.49	63.09
225.0	79.94	77.54	74.91	71.51	69.06	66.36	63.15	60.75	58.17
270.0	80.29	78.19	75.85	72.22	69.23	66.83	63.67	61.33	58.46
315.0	80.00	76.72	73.91	71.22	68.71	65.78	63.32	60.80	57.41
360.0	81.11	77.89	75.26	72.68	70.17	66.89	64.61	62.27	59.58
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	56.59	54.54	52.26	50.56	47.75	45.59	43.07	41.02	39.39
45.0	58.70	56.18	53.78	51.50	49.22	47.46	45.00	43.07	40.56
90.0	55.89	53.20	51.21	49.33	47.70	45.41	43.66	41.90	40.38
135.0	60.63	58.17	55.89	53.67	50.86	48.92	47.17	44.89	43.07
180.0	59.81	57.41	54.43	52.03	49.63	47.93	46.29	44.30	41.84
225.0	55.13	52.73	50.39	48.52	46.64	44.59	42.72	40.79	38.86
270.0	56.12	53.78	51.73	49.33	47.46	45.53	43.72	41.49	39.97
315.0	55.07	52.38	50.33	48.75	45.76	43.72	41.79	40.03	38.62
360.0	56.59	54.54	52.26	50.56	47.75	45.59	43.07	41.02	39.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	37.45	36.05	34.65	33.24	31.60	30.37	29.20	27.97	26.69
45.0	39.03	37.69	36.23	34.53	33.12	31.54	30.20	28.97	27.45
90.0	38.51	37.10	35.41	33.94	32.54	30.90	29.55	28.21	26.92
135.0	41.14	39.39	37.92	36.23	34.88	33.53	32.30	30.72	29.55
180.0	40.26	38.74	37.40	35.58	34.18	32.83	31.49	29.90	28.73
225.0	37.45	35.76	34.35	32.95	31.25	29.90	28.68	27.45	25.93
270.0	38.51	36.69	35.29	33.94	32.19	30.90	29.55	28.03	26.80
315.0	36.81	35.41	34.06	32.66	31.02	29.73	28.21	26.98	25.98
360.0	37.45	36.05	34.65	33.24	31.60	30.37	29.20	27.97	26.69
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	25.98	24.52	22.59	21.36	20.25	19.31	18.49	17.97	17.26
45.0	26.45	25.40	23.64	22.30	20.89	19.61	18.73	17.79	17.26
90.0	26.10	24.76	22.94	21.30	20.25	19.14	18.26	17.62	17.21
135.0	28.38	27.27	26.63	24.23	22.71	21.54	20.78	19.66	18.96
180.0	27.21	26.22	25.28	23.35	21.59	20.31	19.37	18.38	17.73
225.0	24.99	23.70	22.12	20.89	19.84	18.84	18.02	17.50	17.15
270.0	25.81	24.99	23.17	21.54	20.19	19.08	18.20	17.62	17.21
315.0	25.05	23.70	22.06	20.66	19.55	18.55	17.91	17.56	17.32
360.0	25.98	24.52	22.59	21.36	20.25	19.31	18.49	17.97	17.26

Intensity data(cd)

<i>C/γ(°)</i>	90.0
0.0	17.21
45.0	16.97
90.0	17.03
135.0	18.55
180.0	17.26
225.0	17.09
270.0	17.03
315.0	17.32
360.0	17.21