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NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.412.00

Report No: 2024228-B024

Ballast type: AC

Test No: 2024228-C024

Voltage(V): 35.340

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2613.0

Power (W): 19.118

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2157.20, Efficiency(%): 82.56% , Luminous Efficacy(lm/W): 112.84

Central intensity(cd): 3989.976, Maximum intensity(cd): 3989.976

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=43.4

[C90/270]Total=43.4

Field angle(10%Imax): [C0/180]Total=67.6

[C90/270]Total=67.6

Maximum s/h(1/2): C0\_180=0.70 C90\_270=0.70

Maximum s/h(1/4): C0\_180=0.69 C90\_270=0.69

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.669%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/2/28  
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	3989.976	0.000	0	0.00%	0.00%
1.0	3981.417	3.814	3.814	0.15%	0.18%
2.0	3964.958	11.405	15.22	0.44%	0.71%
3.0	3937.452	18.900	34.12	0.72%	1.58%
4.0	3896.487	26.223	60.342	1.00%	2.80%
5.0	3846.157	33.308	93.651	1.27%	4.34%
6.0	3789.390	40.127	133.778	1.54%	6.20%
7.0	3725.820	46.647	180.424	1.79%	8.36%
8.0	3649.887	52.787	233.211	2.02%	10.81%
9.0	3567.005	58.489	291.7	2.24%	13.52%
10.0	3476.880	63.745	355.444	2.44%	16.48%
11.0	3385.512	68.569	424.014	2.62%	19.66%
12.0	3288.511	72.957	496.97	2.79%	23.04%
13.0	3170.515	76.652	573.623	2.93%	26.59%
14.0	3058.371	79.729	653.352	3.05%	30.29%
15.0	2943.375	82.395	735.747	3.15%	34.11%
16.0	2823.403	84.499	820.246	3.23%	38.02%
17.0	2683.315	85.754	906	3.28%	42.00%
18.0	2546.080	86.221	992.222	3.30%	46.00%
19.0	2406.357	86.162	1078.384	3.30%	49.99%
20.0	2258.003	85.371	1163.755	3.27%	53.95%
21.0	2105.771	83.793	1247.548	3.21%	57.83%
22.0	1946.078	81.424	1328.972	3.12%	61.61%
23.0	1805.624	78.721	1407.693	3.01%	65.26%
24.0	1639.896	75.331	1483.024	2.88%	68.75%
25.0	1484.643	71.045	1554.069	2.72%	72.04%
26.0	1352.974	66.982	1621.052	2.56%	75.15%
27.0	1211.708	62.746	1683.797	2.40%	78.05%
28.0	1093.932	58.374	1742.171	2.23%	80.76%
29.0	966.653	53.911	1796.082	2.06%	83.26%
30.0	828.225	48.461	1844.543	1.85%	85.51%
31.0	704.969	42.667	1887.21	1.63%	87.48%
32.0	590.002	37.099	1924.309	1.42%	89.20%
33.0	481.150	31.557	1955.866	1.21%	90.67%
34.0	371.918	25.816	1981.682	0.99%	91.86%
35.0	299.379	20.848	2002.53	0.80%	92.83%
36.0	229.474	16.839	2019.369	0.64%	93.61%
37.0	172.268	13.103	2032.471	0.50%	94.22%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	115.816	9.616	2042.087	0.37%	94.66%
39.0	76.013	6.548	2048.635	0.25%	94.97%
40.0	59.049	4.711	2053.345	0.18%	95.19%
41.0	50.015	3.884	2057.229	0.15%	95.37%
42.0	44.382	3.430	2060.659	0.13%	95.52%
43.0	40.834	3.157	2063.815	0.12%	95.67%
44.0	38.215	2.984	2066.799	0.11%	95.81%
45.0	36.291	2.863	2069.662	0.11%	95.94%
46.0	34.623	2.773	2072.436	0.11%	96.07%
47.0	33.190	2.697	2075.133	0.10%	96.20%
48.0	32.078	2.638	2077.771	0.10%	96.32%
49.0	31.075	2.593	2080.364	0.10%	96.44%
50.0	30.117	2.551	2082.916	0.10%	96.56%
51.0	29.276	2.513	2085.429	0.10%	96.67%
52.0	28.574	2.482	2087.911	0.10%	96.79%
53.0	27.915	2.457	2090.368	0.09%	96.90%
54.0	27.235	2.431	2092.799	0.09%	97.01%
55.0	26.635	2.405	2095.204	0.09%	97.13%
56.0	26.094	2.383	2097.586	0.09%	97.24%
57.0	25.618	2.364	2099.951	0.09%	97.35%
58.0	25.084	2.345	2102.295	0.09%	97.45%
59.0	24.572	2.321	2104.617	0.09%	97.56%
60.0	24.067	2.298	2106.915	0.09%	97.67%
61.0	23.548	2.272	2109.187	0.09%	97.77%
62.0	23.021	2.244	2111.431	0.09%	97.88%
63.0	22.414	2.210	2113.641	0.08%	97.98%
64.0	21.902	2.175	2115.815	0.08%	98.08%
65.0	21.331	2.140	2117.955	0.08%	98.18%
66.0	20.775	2.101	2120.056	0.08%	98.28%
67.0	20.256	2.063	2122.119	0.08%	98.37%
68.0	19.795	2.029	2124.148	0.08%	98.47%
69.0	19.422	2.001	2126.149	0.08%	98.56%
70.0	19.049	1.976	2128.124	0.08%	98.65%
71.0	18.603	1.946	2130.07	0.07%	98.74%
72.0	18.003	1.903	2131.974	0.07%	98.83%
73.0	17.388	1.851	2133.825	0.07%	98.92%
74.0	16.737	1.794	2135.619	0.07%	99.00%
75.0	15.999	1.730	2137.348	0.07%	99.08%

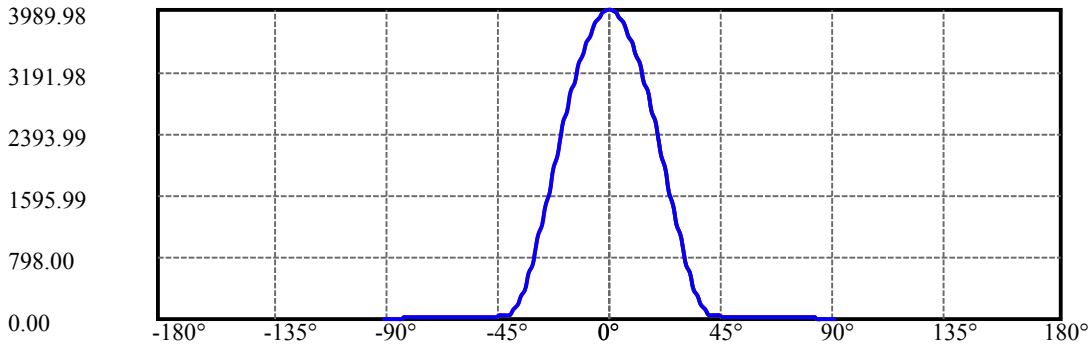
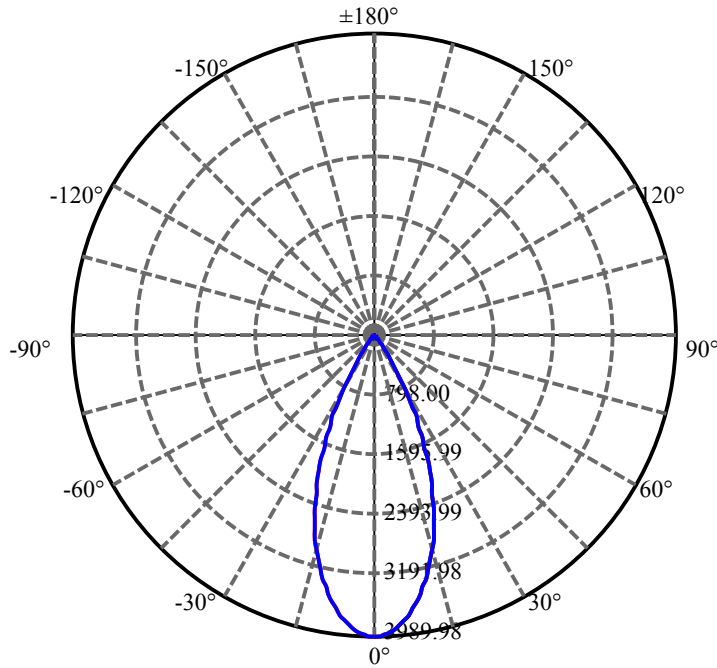
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.399	1.667	2139.015	0.06%	99.16%
77.0	14.828	1.612	2140.627	0.06%	99.23%
78.0	14.345	1.562	2142.188	0.06%	99.30%
79.0	13.921	1.519	2143.707	0.06%	99.37%
80.0	13.467	1.477	2145.184	0.06%	99.44%
81.0	13.131	1.438	2146.622	0.06%	99.51%
82.0	12.729	1.402	2148.024	0.05%	99.57%
83.0	12.195	1.355	2149.379	0.05%	99.64%
84.0	11.456	1.288	2150.668	0.05%	99.70%
85.0	10.666	1.207	2151.875	0.05%	99.75%
86.0	10.037	1.132	2153.007	0.04%	99.81%
87.0	9.685	1.079	2154.086	0.04%	99.86%
88.0	9.488	1.050	2155.136	0.04%	99.90%
89.0	9.393	1.035	2156.171	0.04%	99.95%
90.0	9.320	1.026	2157.197	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1844.54	70.59%	85.51%
0-40	2053.35	78.58%	95.19%
0-60	2106.91	80.63%	97.67%
0-90	2156.17	82.52%	99.95%
0-120	2156.17	82.52%	99.95%
0-180	2157.20	82.56%	100.00%
60-90	49.26	1.89%	2.28%
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%
0-27.72	1725.76	66.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	355.44
10-20	808.31
20-30	680.79
30-40	208.80
40-50	29.57
50-60	24.00
60-70	21.21
70-80	17.06
80-90	10.99
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: —————

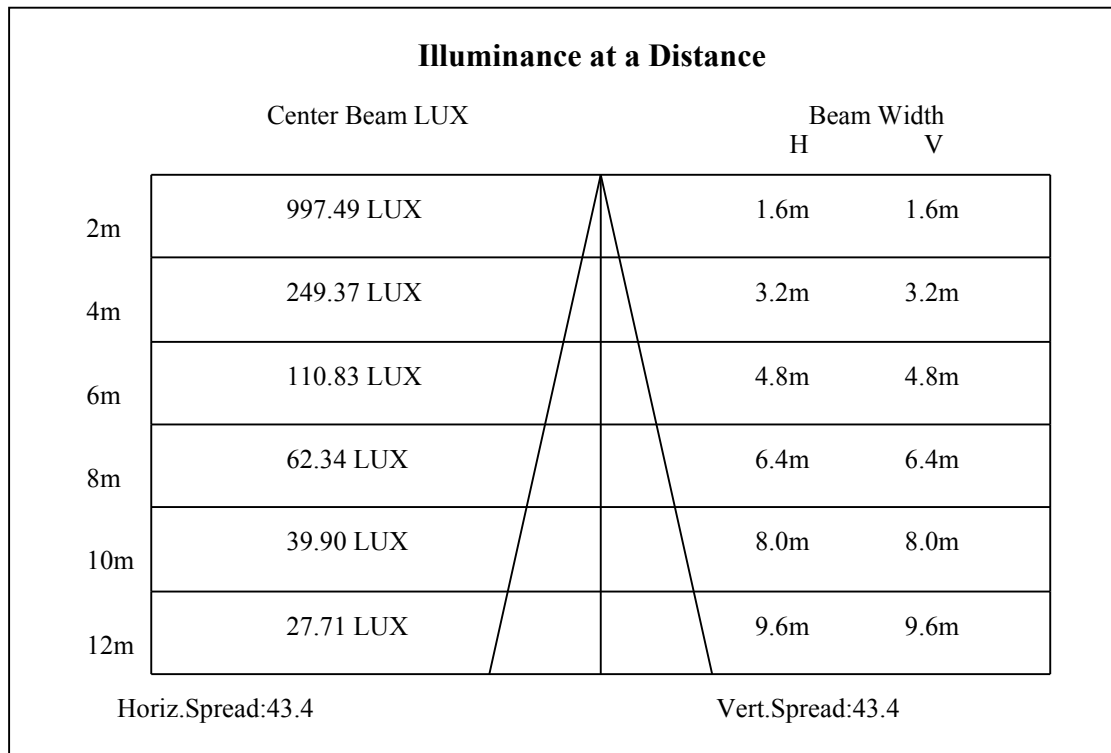
C90/C270: —————

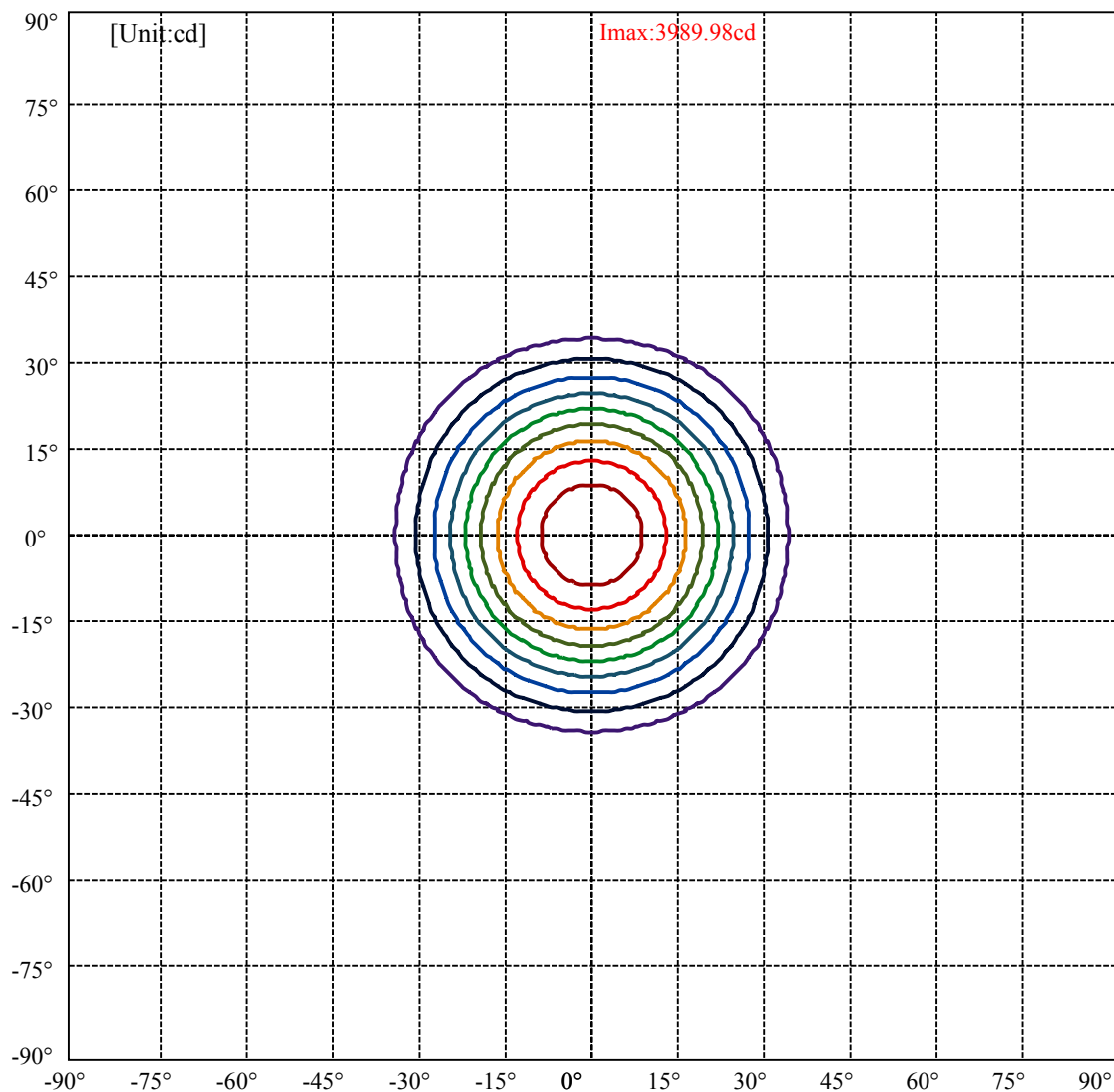
Field angle(10%Imax):C0/180Left:33.8 Right:33.8

:C90/270Left:33.8 Right:33.8

Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7

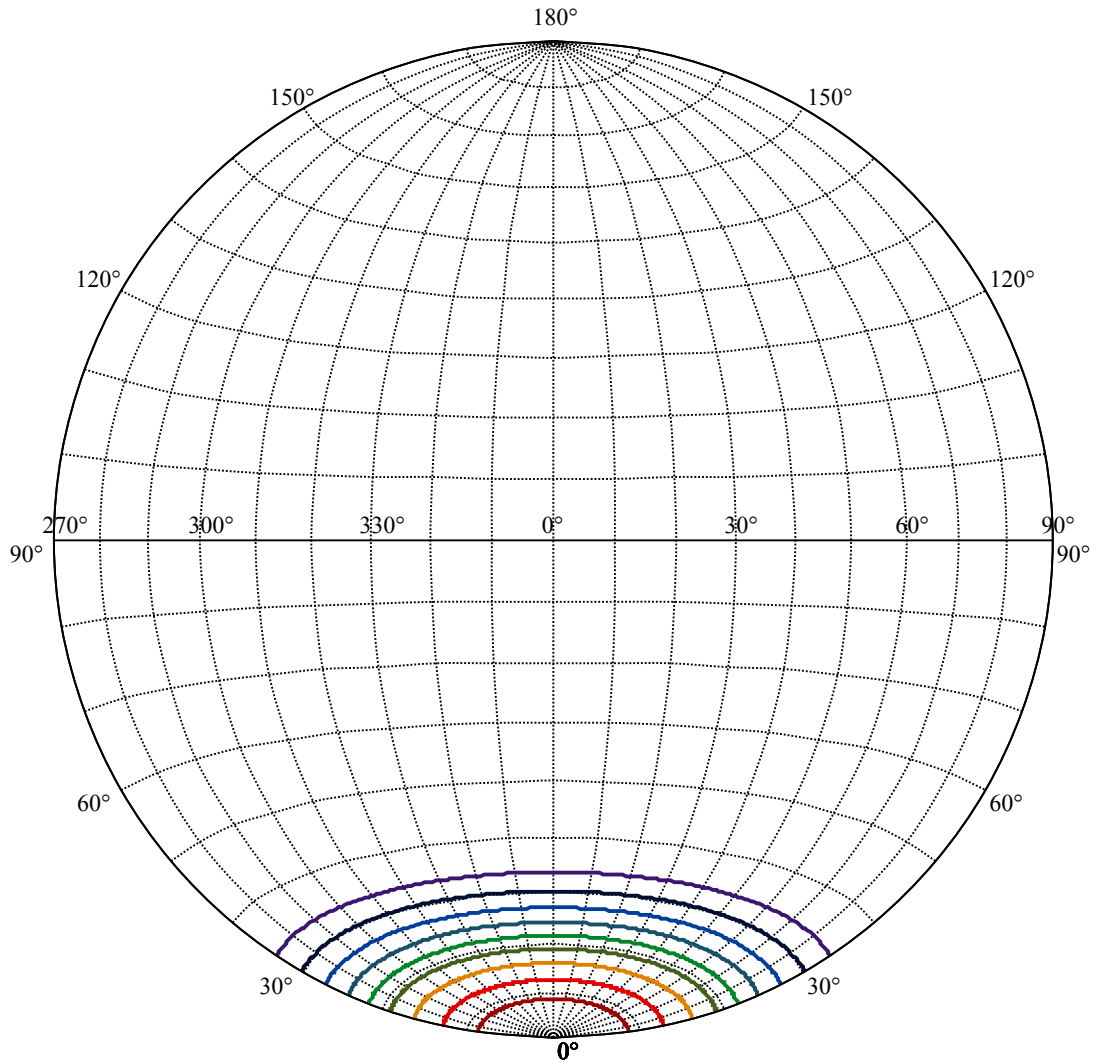
:C90/270Left:21.7 Right:21.7





(10%I <sub>max</sub> ) 398.998	—
(20%I <sub>max</sub> ) 797.995	—
(30%I <sub>max</sub> ) 1196.99	—
(40%I <sub>max</sub> ) 1595.99	—
(50%I <sub>max</sub> ) 1994.99	—
(60%I <sub>max</sub> ) 2393.99	—
(70%I <sub>max</sub> ) 2792.98	—
(80%I <sub>max</sub> ) 3191.98	—
(90%I <sub>max</sub> ) 3590.98	—





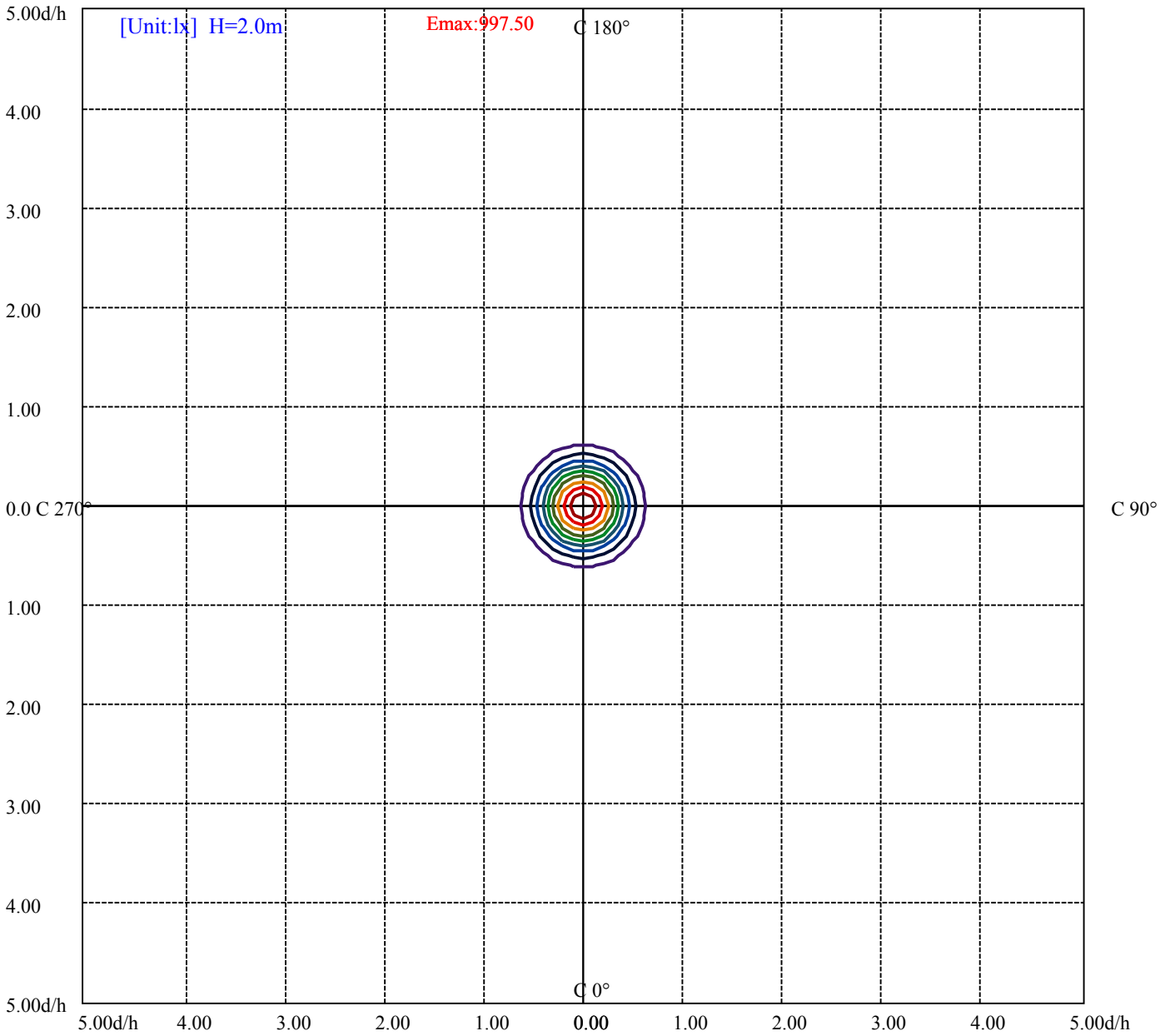
House

[Unit:cd]

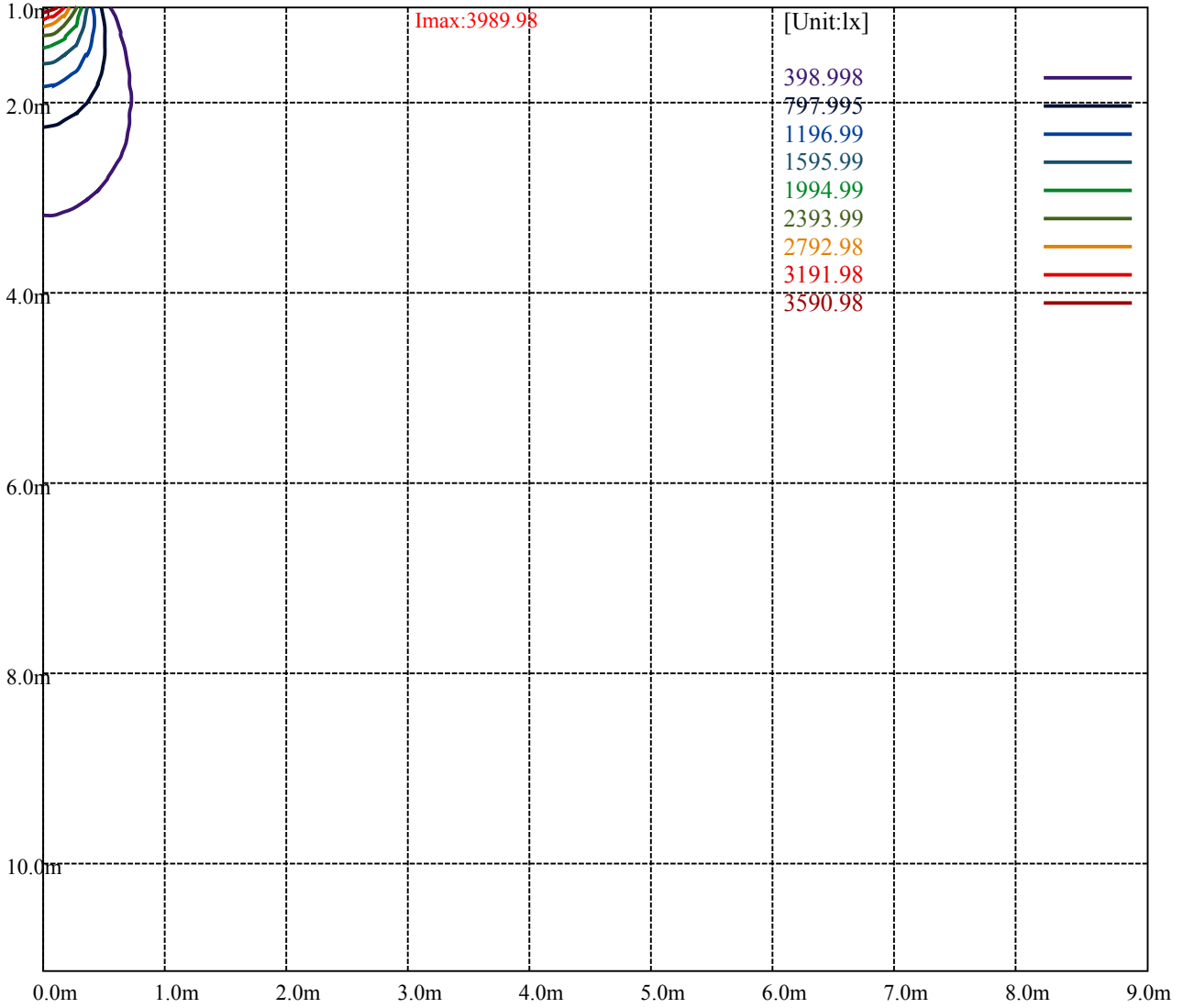
Road

**Imax:3989.98**

(10%Imax)	398.998	—
(20%Imax)	797.995	—
(30%Imax)	1196.99	—
(40%Imax)	1595.99	—
(50%Imax)	1994.99	—
(60%Imax)	2393.99	—
(70%Imax)	2792.98	—
(80%Imax)	3191.98	—
(90%Imax)	3590.98	—



(10%Emax) 99.74925	—
(20%Emax) 199.4987	—
(30%Emax) 299.2475	—
(40%Emax) 398.9975	—
(50%Emax) 498.7475	—
(60%Emax) 598.4975	—
(70%Emax) 698.245	—
(80%Emax) 797.995	—
(90%Emax) 897.745	—



Luminance Table

$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	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

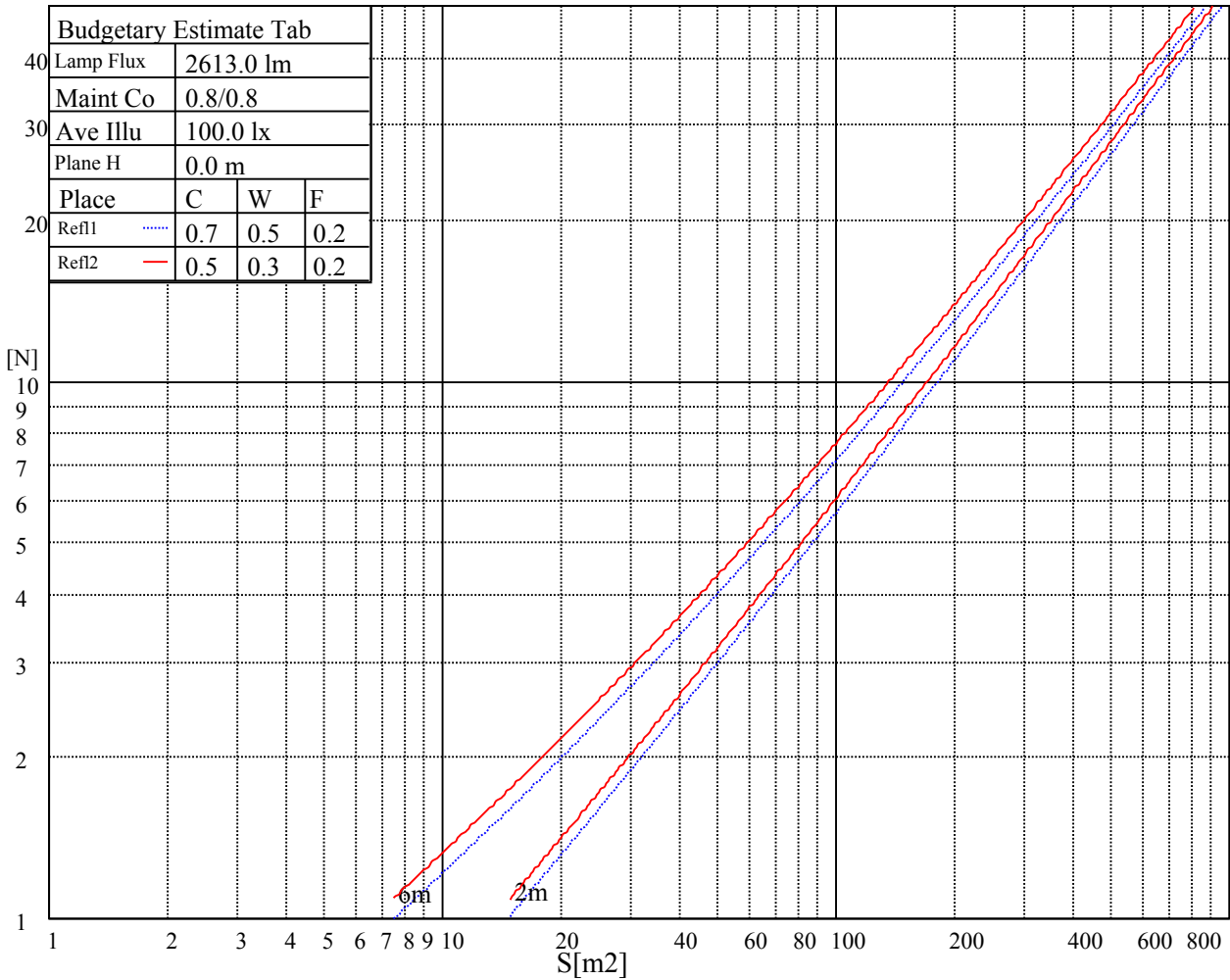
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

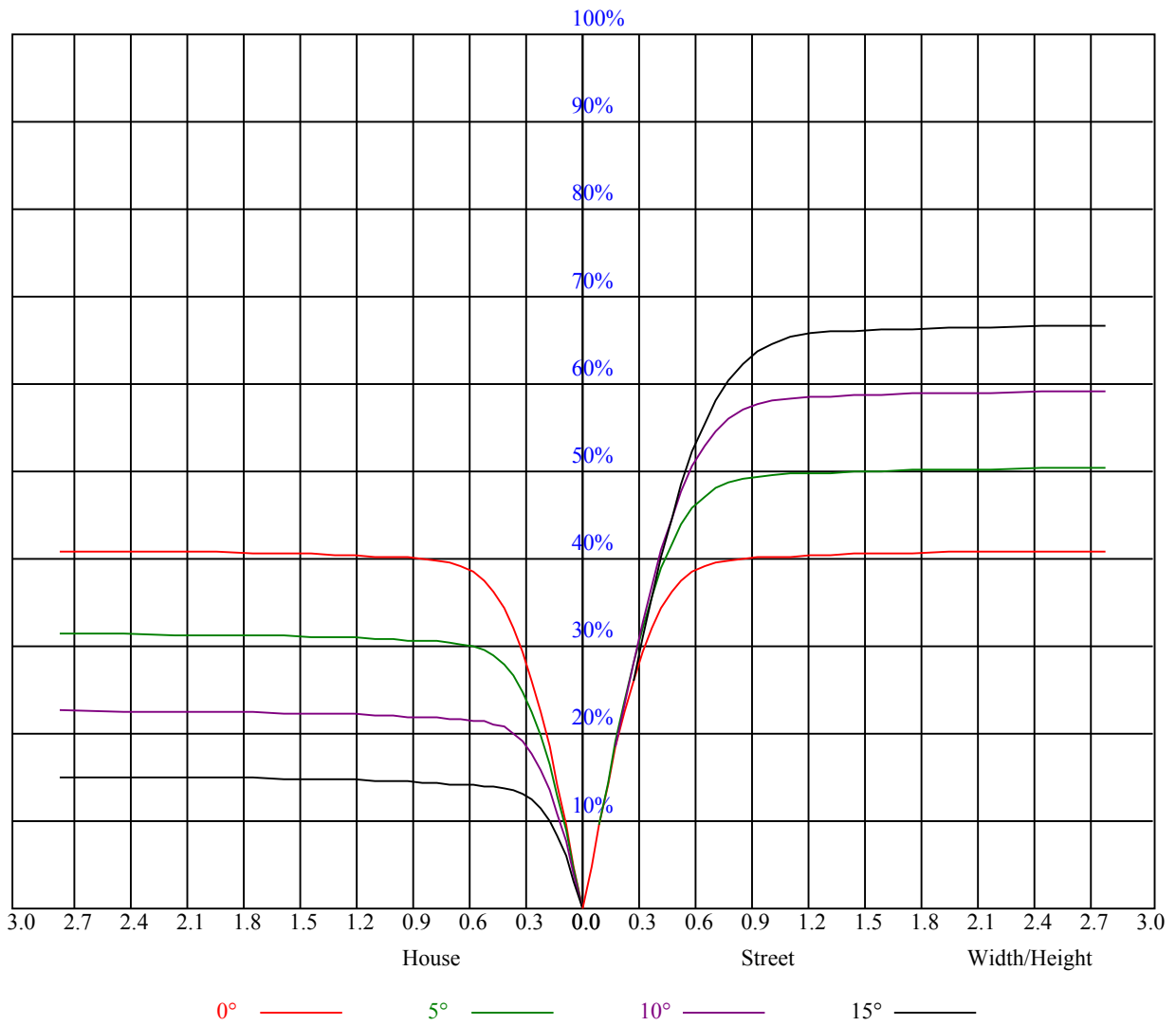


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

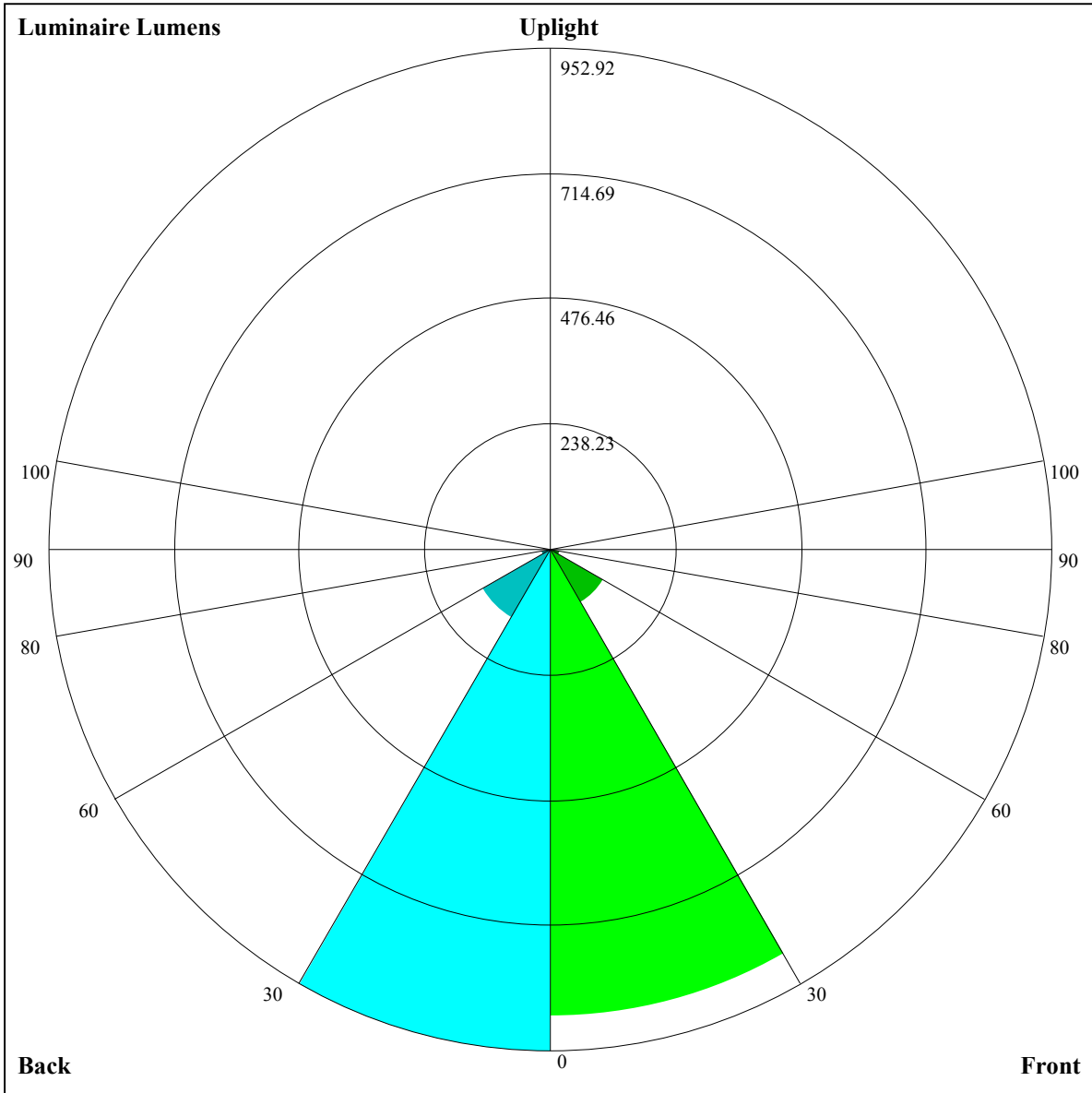
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.79	0.78	0.76	0.77	0.76	0.74	0.73
3	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.65
5	0.73	0.68	0.65	0.72	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56
8	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.55	0.53	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.55	0.52	0.50	0.49







Luminaire Lumens:

FL=885.95,FM=116.74,FH=19.01,FVH=5.9

BL=952.92,BM=149.79,BH=19.63,BVH=6.14

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	3970.22	3933.36	3895.90	3847.91	3790.56	3712.14	3641.91	3566.42	3482.73
45.0	3994.80	3978.42	3956.18	3922.24	3867.81	3813.97	3753.11	3686.98	3595.68
90.0	3992.46	3970.22	3943.30	3905.85	3844.40	3789.98	3726.77	3638.99	3561.74
135.0	4002.41	4001.83	3991.88	3963.20	3929.84	3887.12	3822.75	3764.23	3679.37
180.0	3970.22	3987.78	3994.80	3989.54	3974.32	3950.91	3908.78	3863.13	3809.87
225.0	3994.80	3993.05	3979.59	3959.11	3928.67	3877.76	3828.02	3769.49	3703.36
270.0	3992.46	4000.07	3993.63	3980.17	3946.23	3909.36	3864.88	3814.56	3736.13
315.0	4002.41	3986.61	3964.37	3931.60	3890.05	3828.02	3768.91	3702.78	3630.21
360.0	3970.22	3933.36	3895.90	3847.91	3790.56	3712.14	3641.91	3566.42	3482.73
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3372.12	3277.32	3152.08	3046.74	2937.89	2793.92	2669.27	2538.76	2370.80
45.0	3518.43	3433.57	3344.62	3249.81	3120.48	3012.80	2867.08	2744.76	2617.18
90.0	3479.81	3366.86	3270.88	3170.22	3039.13	2927.35	2806.80	2680.97	2518.87
135.0	3603.29	3523.70	3435.91	3342.28	3217.63	3113.46	3004.02	2888.73	2739.50
180.0	3732.04	3662.40	3586.90	3507.31	3396.12	3302.48	3204.17	3101.75	2970.08
225.0	3631.96	3533.06	3449.37	3358.08	3238.69	3138.03	3031.52	2892.83	2775.78
270.0	3666.49	3573.44	3489.76	3400.80	3282.00	3181.34	3076.00	2968.90	2826.70
315.0	3531.89	3444.69	3354.57	3232.84	3132.18	2997.58	2888.14	2770.51	2647.62
360.0	3372.12	3277.32	3152.08	3046.74	2937.89	2793.92	2669.27	2538.76	2370.80
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2227.42	2082.29	1942.42	1807.82	1645.71	1515.21	1147.98	1147.98	1081.96
45.0	2451.57	2314.62	2167.73	1989.82	1853.47	1725.30	1593.63	1428.01	1292.24
90.0	2383.09	2239.13	2091.65	1917.84	1786.75	1623.47	1494.72	1152.78	1152.78
135.0	2616.01	2486.09	2314.04	2168.32	1993.33	1858.15	1730.57	1568.46	1435.62
180.0	2853.03	2727.21	2567.44	2439.86	2259.03	2102.77	1965.24	1799.04	1672.05
225.0	2651.71	2486.68	2349.15	2202.85	2024.35	1887.99	1759.83	1634.59	1476.58
270.0	2702.63	2570.37	2434.59	2266.05	2123.25	1978.70	1801.97	1682.00	1550.90
315.0	2483.17	2344.47	2196.99	2053.61	1882.73	1753.39	1625.23	1464.29	1161.67
360.0	2227.42	2082.29	1942.42	1807.82	1645.71	1515.21	1147.98	1147.98	1081.96
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	952.40	799.65	681.26	569.95	439.39	346.16	262.41	175.33	121.67
45.0	1154.71	1024.20	865.02	750.90	637.95	505.69	407.96	299.69	299.69
90.0	1051.88	926.06	808.43	663.00	557.13	456.48	365.41	264.99	195.70
135.0	1298.67	1162.32	1001.96	875.56	757.34	646.15	513.30	417.32	330.13
180.0	1545.05	1413.38	1284.63	1119.01	990.84	861.51	739.20	596.99	492.23
225.0	1138.73	1138.73	1071.84	908.80	789.94	669.73	534.72	434.82	344.70
270.0	1390.55	1257.12	1117.25	958.66	831.66	708.18	599.91	471.16	374.02
315.0	1161.67	1030.00	902.83	779.93	635.50	526.12	426.28	315.03	236.90
360.0	952.40	799.65	681.26	569.95	439.39	346.16	262.41	175.33	121.67
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	85.50	64.14	52.38	46.99	42.60	39.62	37.10	35.41	33.65
45.0	206.76	95.39	69.76	57.00	50.80	44.71	41.38	38.92	37.10
90.0	137.00	93.69	64.08	55.36	48.16	43.77	40.73	38.10	36.34
135.0	308.47	214.66	109.03	71.40	57.35	50.86	44.65	41.02	38.51
180.0	371.09	303.79	303.79	144.26	92.64	67.36	53.55	47.81	43.19
225.0	243.69	176.09	110.26	77.02	59.75	52.26	46.99	42.02	39.33
270.0	312.57	312.57	141.68	96.85	69.29	55.25	49.28	44.65	40.73
315.0	170.71	117.81	75.55	59.22	51.79	46.29	41.38	38.74	36.87
360.0	85.50	64.14	52.38	46.99	42.60	39.62	37.10	35.41	33.65

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	32.48	31.43	30.31	29.50	28.79	28.03	27.27	26.74	26.22
45.0	35.52	33.88	32.77	31.78	30.67	29.90	28.97	28.32	27.68
90.0	34.94	33.71	32.42	31.43	30.61	29.79	28.91	28.32	27.74
135.0	36.64	34.65	33.36	32.19	31.19	30.02	29.32	28.62	27.86
180.0	39.97	37.16	35.46	33.94	32.77	31.43	30.49	29.67	28.91
225.0	37.40	35.82	34.12	32.95	31.66	30.84	30.02	29.14	28.44
270.0	38.51	36.75	34.88	33.59	32.54	31.31	30.49	29.73	29.03
315.0	34.88	33.59	32.19	31.25	30.37	29.61	28.73	28.03	27.45
360.0	32.48	31.43	30.31	29.50	28.79	28.03	27.27	26.74	26.22
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.69	25.05	24.64	24.23	23.64	23.17	22.71	22.12	21.59
45.0	26.98	26.45	25.93	25.46	24.87	24.40	23.88	23.41	22.77
90.0	26.92	26.34	25.81	25.22	24.76	24.23	23.76	23.23	22.77
135.0	27.27	26.74	26.10	25.63	25.05	24.52	24.05	23.53	22.94
180.0	27.97	27.39	26.69	26.22	25.75	25.16	24.70	24.29	23.82
225.0	27.92	27.21	26.69	26.28	25.75	25.28	24.70	24.17	23.70
270.0	28.21	27.68	27.15	26.63	26.04	25.57	24.99	24.52	23.99
315.0	26.92	26.22	25.75	25.28	24.81	24.23	23.76	23.12	22.59
360.0	25.69	25.05	24.64	24.23	23.64	23.17	22.71	22.12	21.59
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.89	20.37	19.78	19.20	18.55	17.97	17.50	16.97	16.39
45.0	22.24	21.77	21.07	20.54	20.01	19.49	19.20	19.02	18.84
90.0	22.06	21.59	21.01	20.66	20.66	21.07	21.36	21.07	20.13
135.0	22.47	22.00	21.48	20.78	20.19	19.55	18.90	18.32	17.79
180.0	23.17	22.71	22.18	21.65	21.01	20.37	19.78	19.08	18.49
225.0	23.06	22.53	22.00	21.36	20.78	20.07	19.55	19.31	19.08
270.0	23.35	22.82	22.24	21.77	21.13	20.83	20.66	20.72	20.72
315.0	22.06	21.42	20.89	20.25	19.72	19.02	18.43	17.91	17.38
360.0	20.89	20.37	19.78	19.20	18.55	17.97	17.50	16.97	16.39
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.57	15.10	14.69	14.28	13.99	13.69	13.40	13.23	12.52
45.0	18.38	17.73	16.97	16.09	15.57	14.98	14.40	13.75	13.40
90.0	19.37	18.49	17.85	16.97	16.15	15.33	14.63	13.93	13.17
135.0	17.09	16.50	15.86	15.22	14.75	14.40	14.10	13.75	13.34
180.0	17.85	17.26	16.74	15.98	15.39	14.86	14.51	14.16	13.87
225.0	18.79	18.32	17.62	16.85	15.98	15.39	14.86	14.34	13.93
270.0	20.31	19.61	18.67	17.73	16.85	15.74	15.04	14.57	14.22
315.0	16.68	16.09	15.51	14.86	14.51	14.22	13.81	13.64	13.28
360.0	15.57	15.10	14.69	14.28	13.99	13.69	13.40	13.23	12.52
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.06	11.35	10.65	9.89	9.60	9.48	9.31	9.31	9.31
45.0	12.87	12.47	11.82	10.94	10.24	9.66	9.54	9.36	9.31
90.0	12.82	12.35	11.59	10.77	10.01	9.60	9.48	9.36	9.31
135.0	13.11	12.87	12.52	11.70	10.71	9.83	9.66	9.54	9.36
180.0	13.58	13.28	13.05	12.70	12.06	11.29	10.36	9.71	9.60
225.0	13.64	13.23	12.70	12.11	11.06	10.12	9.71	9.60	9.42
270.0	13.87	13.52	13.05	12.41	11.41	10.48	9.83	9.60	9.48
315.0	13.11	12.76	12.17	11.12	10.24	9.83	9.60	9.42	9.36
360.0	12.06	11.35	10.65	9.89	9.60	9.48	9.31	9.31	9.31

Intensity data(cd)

C/γ(°)	90.0
0.0	9.31
45.0	9.31
90.0	9.31
135.0	9.31
180.0	9.42
225.0	9.31
270.0	9.31
315.0	9.31
360.0	9.31