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NT

Client:

LumCAT: 2-2681-L

Luminaire: 92.70.412.00

Report No: 2024228-B025

Ballast type: AC

Test No: 2024228-C025

Voltage(V): 35.330

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2613.0

Power (W): 19.113

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2163.07, Efficiency(%): 82.78% , Luminous Efficacy(lm/W): 113.17

Central intensity(cd): 3982.515, Maximum intensity(cd): 3982.515

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

Beam Angle(50%Imax): [C0/180]Total=43.6

[C90/270]Total=43.6

Field angle(10%Imax): [C0/180]Total=67.4

[C90/270]Total=67.4

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(%): 82.78%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.746%

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	3982.515	0.000	0	0.00%	0.00%
1.0	3976.882	3.808	3.808	0.15%	0.18%
2.0	3961.154	11.393	15.202	0.44%	0.70%
3.0	3936.867	18.889	34.091	0.72%	1.58%
4.0	3899.632	26.231	60.323	1.00%	2.79%
5.0	3850.400	33.340	93.663	1.28%	4.33%
6.0	3796.486	40.186	133.849	1.54%	6.19%
7.0	3734.087	46.742	180.591	1.79%	8.35%
8.0	3658.593	52.908	233.499	2.02%	10.79%
9.0	3574.320	58.619	292.118	2.24%	13.50%
10.0	3486.024	63.894	356.012	2.45%	16.46%
11.0	3394.583	68.751	424.763	2.63%	19.64%
12.0	3292.461	73.099	497.862	2.80%	23.02%
13.0	3177.318	76.780	574.642	2.94%	26.57%
14.0	3058.883	79.823	654.465	3.05%	30.26%
15.0	2943.448	82.403	736.868	3.15%	34.07%
16.0	2810.894	84.317	821.185	3.23%	37.96%
17.0	2686.973	85.617	906.801	3.28%	41.92%
18.0	2540.301	86.186	992.988	3.30%	45.91%
19.0	2403.578	86.013	1079.001	3.29%	49.88%
20.0	2255.735	85.278	1164.28	3.26%	53.83%
21.0	2109.575	83.823	1248.102	3.21%	57.70%
22.0	1955.807	81.696	1329.798	3.13%	61.48%
23.0	1807.526	78.965	1408.763	3.02%	65.13%
24.0	1638.403	75.340	1484.103	2.88%	68.61%
25.0	1487.488	71.076	1555.179	2.72%	71.90%
26.0	1343.055	66.815	1621.994	2.56%	74.99%
27.0	1199.221	62.197	1684.192	2.38%	77.86%
28.0	1087.172	57.887	1742.078	2.22%	80.54%
29.0	943.346	53.124	1795.203	2.03%	82.99%
30.0	816.345	47.511	1842.714	1.82%	85.19%
31.0	688.437	41.876	1884.59	1.60%	87.13%
32.0	572.460	36.123	1920.713	1.38%	88.80%
33.0	465.327	30.574	1951.287	1.17%	90.21%
34.0	373.615	25.389	1976.675	0.97%	91.38%
35.0	303.637	21.033	1997.708	0.80%	92.36%
36.0	254.983	17.787	2015.495	0.68%	93.18%
37.0	193.366	14.623	2030.117	0.56%	93.85%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	146.577	11.347	2041.464	0.43%	94.38%
39.0	104.163	8.558	2050.023	0.33%	94.77%
40.0	82.290	6.503	2056.526	0.25%	95.07%
41.0	66.204	5.288	2061.813	0.20%	95.32%
42.0	55.296	4.414	2066.228	0.17%	95.52%
43.0	48.062	3.829	2070.056	0.15%	95.70%
44.0	43.212	3.445	2073.501	0.13%	95.86%
45.0	39.715	3.187	2076.688	0.12%	96.01%
46.0	36.789	2.992	2079.68	0.11%	96.15%
47.0	34.740	2.845	2082.525	0.11%	96.28%
48.0	33.102	2.743	2085.267	0.10%	96.40%
49.0	31.792	2.665	2087.932	0.10%	96.53%
50.0	30.651	2.603	2090.536	0.10%	96.65%
51.0	29.583	2.548	2093.084	0.10%	96.76%
52.0	28.720	2.502	2095.586	0.10%	96.88%
53.0	27.944	2.465	2098.051	0.09%	96.99%
54.0	27.169	2.429	2100.48	0.09%	97.11%
55.0	26.423	2.392	2102.872	0.09%	97.22%
56.0	25.728	2.357	2105.229	0.09%	97.33%
57.0	25.084	2.323	2107.552	0.09%	97.43%
58.0	24.404	2.289	2109.841	0.09%	97.54%
59.0	23.789	2.253	2112.094	0.09%	97.64%
60.0	23.146	2.217	2114.311	0.08%	97.75%
61.0	22.546	2.180	2116.492	0.08%	97.85%
62.0	21.953	2.144	2118.636	0.08%	97.95%
63.0	21.324	2.105	2120.741	0.08%	98.04%
64.0	20.717	2.063	2122.804	0.08%	98.14%
65.0	20.110	2.020	2124.824	0.08%	98.23%
66.0	19.539	1.978	2126.802	0.08%	98.32%
67.0	19.071	1.941	2128.744	0.07%	98.41%
68.0	18.617	1.909	2130.653	0.07%	98.50%
69.0	18.310	1.884	2132.537	0.07%	98.59%
70.0	17.981	1.864	2134.401	0.07%	98.67%
71.0	17.630	1.841	2136.241	0.07%	98.76%
72.0	17.228	1.812	2138.054	0.07%	98.84%
73.0	16.811	1.780	2139.834	0.07%	98.93%
74.0	16.372	1.744	2141.578	0.07%	99.01%
75.0	15.867	1.703	2143.282	0.07%	99.09%

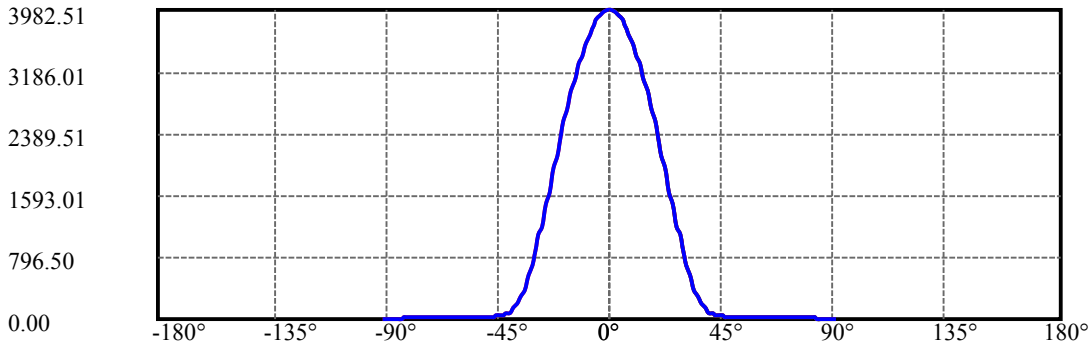
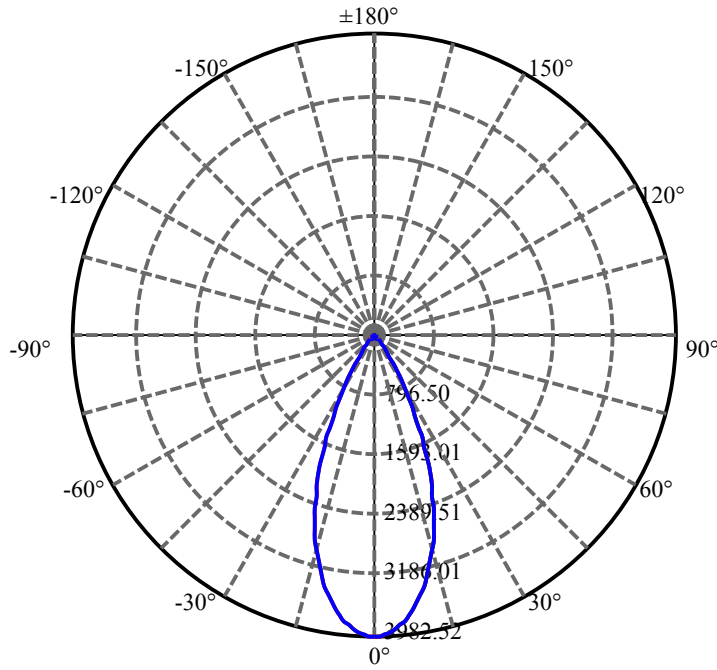
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.406	1.660	2144.942	0.06%	99.16%
77.0	14.894	1.615	2146.557	0.06%	99.24%
78.0	14.426	1.570	2148.127	0.06%	99.31%
79.0	13.958	1.525	2149.652	0.06%	99.38%
80.0	13.504	1.481	2151.132	0.06%	99.45%
81.0	13.065	1.437	2152.569	0.05%	99.51%
82.0	12.538	1.388	2153.957	0.05%	99.58%
83.0	11.895	1.328	2155.286	0.05%	99.64%
84.0	11.266	1.262	2156.547	0.05%	99.70%
85.0	10.615	1.194	2157.742	0.05%	99.75%
86.0	10.066	1.130	2158.872	0.04%	99.81%
87.0	9.707	1.082	2159.954	0.04%	99.86%
88.0	9.495	1.052	2161.006	0.04%	99.90%
89.0	9.378	1.034	2162.04	0.04%	99.95%
90.0	9.327	1.026	2163.066	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1842.71	70.52%	85.19%
0-40	2056.53	78.70%	95.07%
0-60	2114.31	80.92%	97.75%
0-90	2162.04	82.74%	99.95%
0-120	2162.04	82.74%	99.95%
0-180	2163.07	82.78%	100.00%
60-90	47.73	1.83%	2.21%
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%
0-27.80	1730.45	66.22%	80.00%

ZONAL LUMEN SUMMARY

0-10	356.01
10-20	808.27
20-30	678.43
30-40	213.81
40-50	34.01
50-60	23.78
60-70	20.09
70-80	16.73
80-90	10.91
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): —————

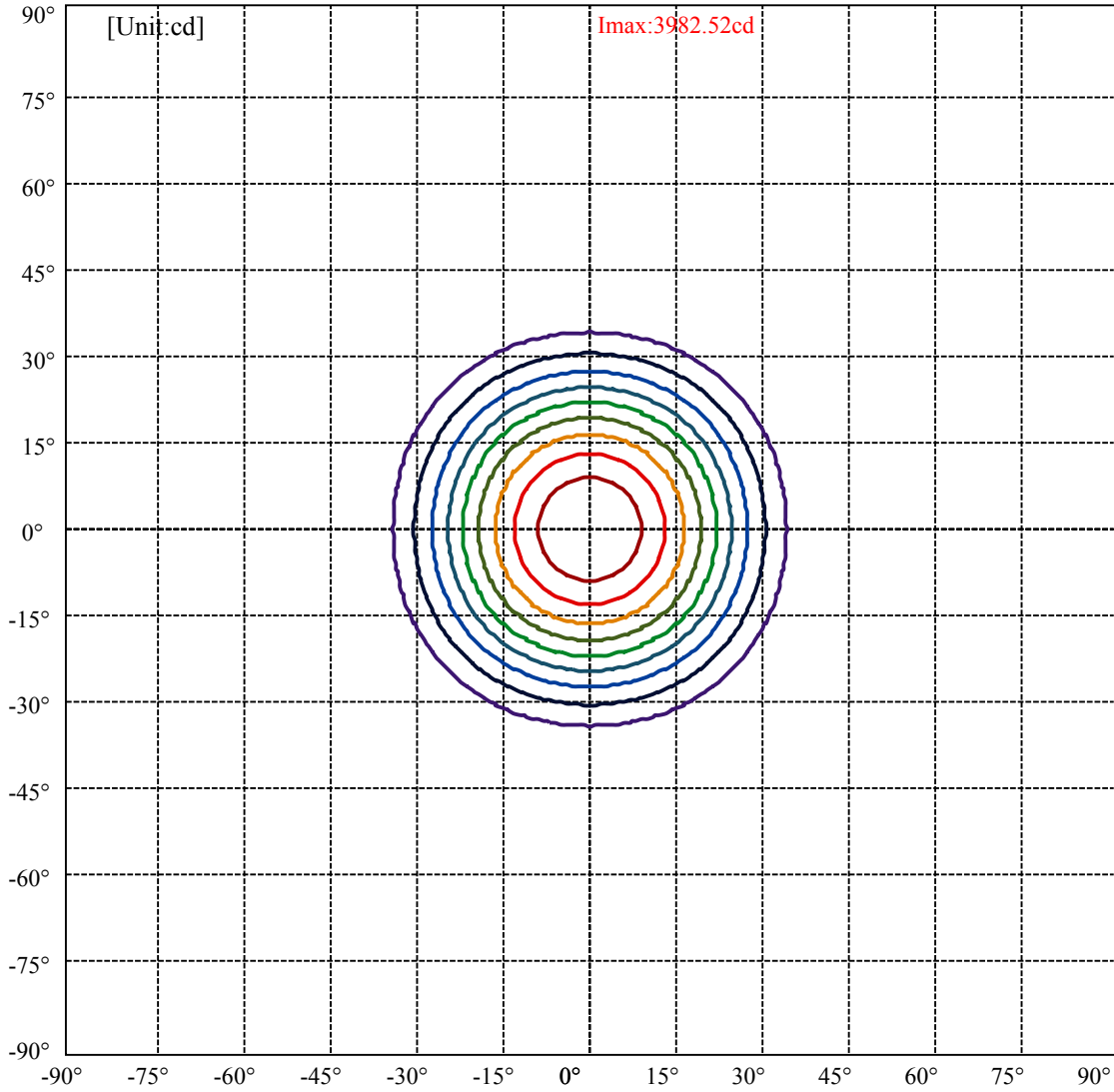
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:33.7 Right:33.7  
:C90/270Left:33.7 Right:33.7

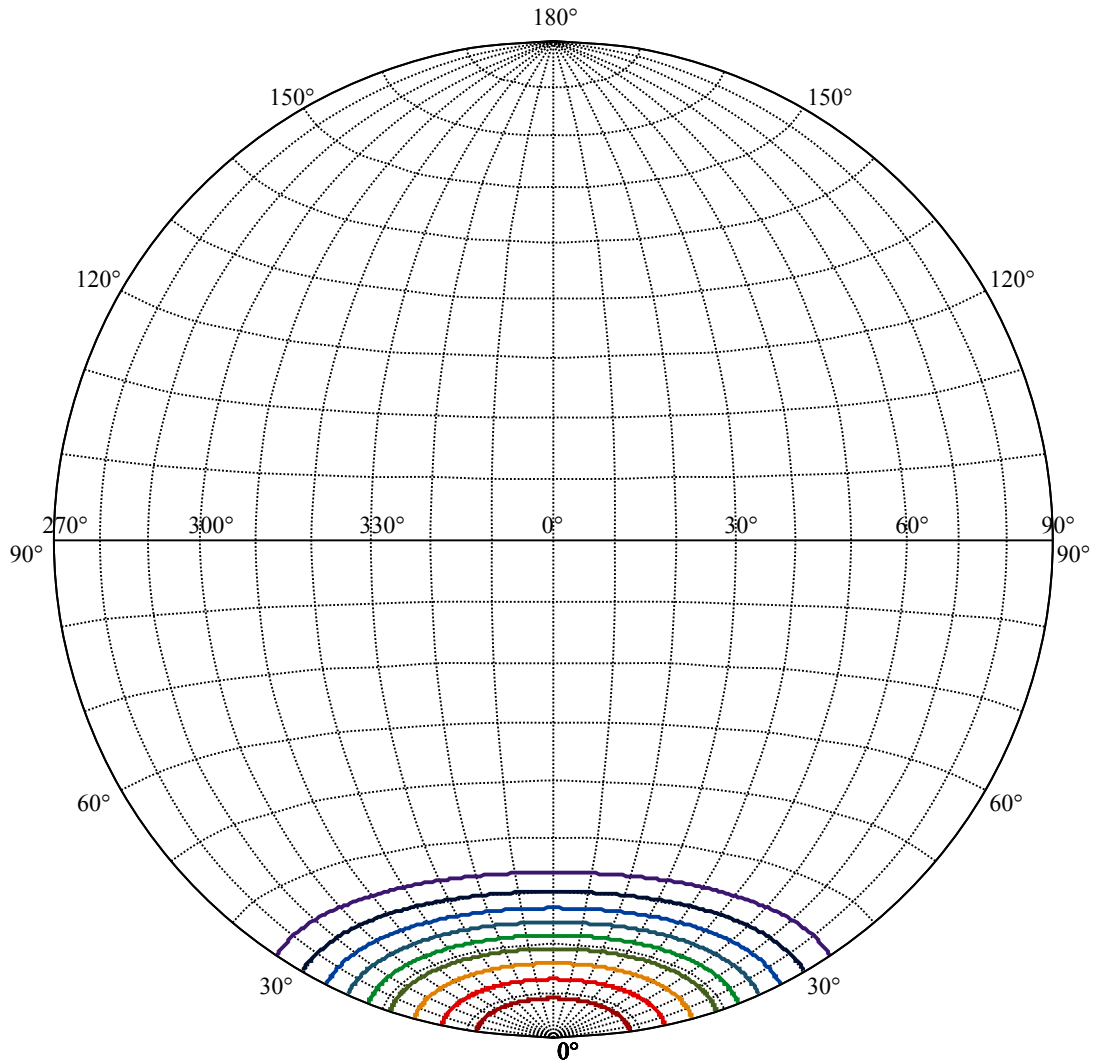
Beam Angle(50%Imax):C0/180Left:21.8 Right:21.8  
:C90/270Left:21.8 Right:21.8





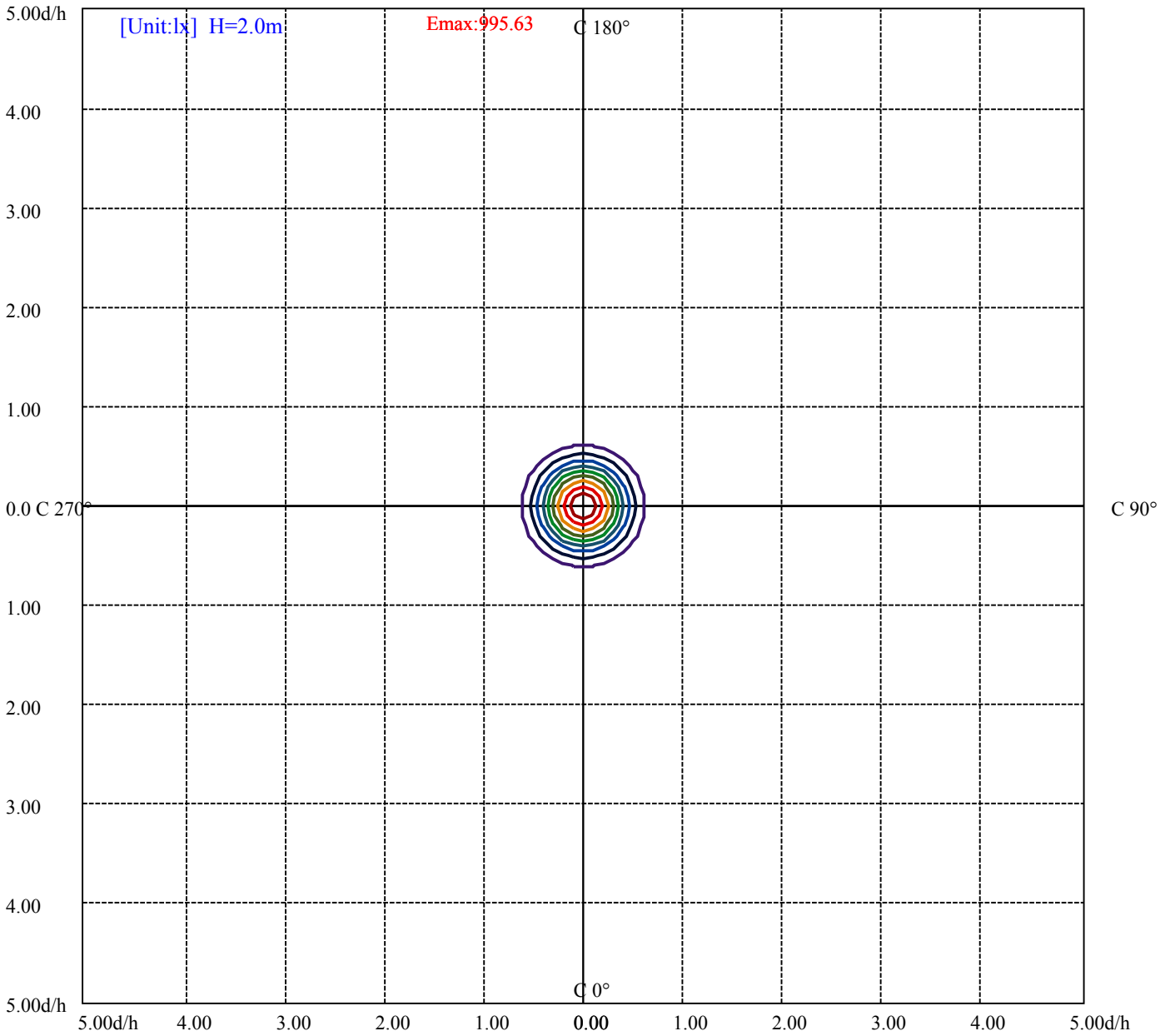
(10%Imax) 398.251	—
(20%Imax) 796.503	—
(30%Imax) 1194.75	—
(40%Imax) 1593.01	—
(50%Imax) 1991.26	—
(60%Imax) 2389.51	—
(70%Imax) 2787.76	—
(80%Imax) 3186.01	—
(90%Imax) 3584.26	—



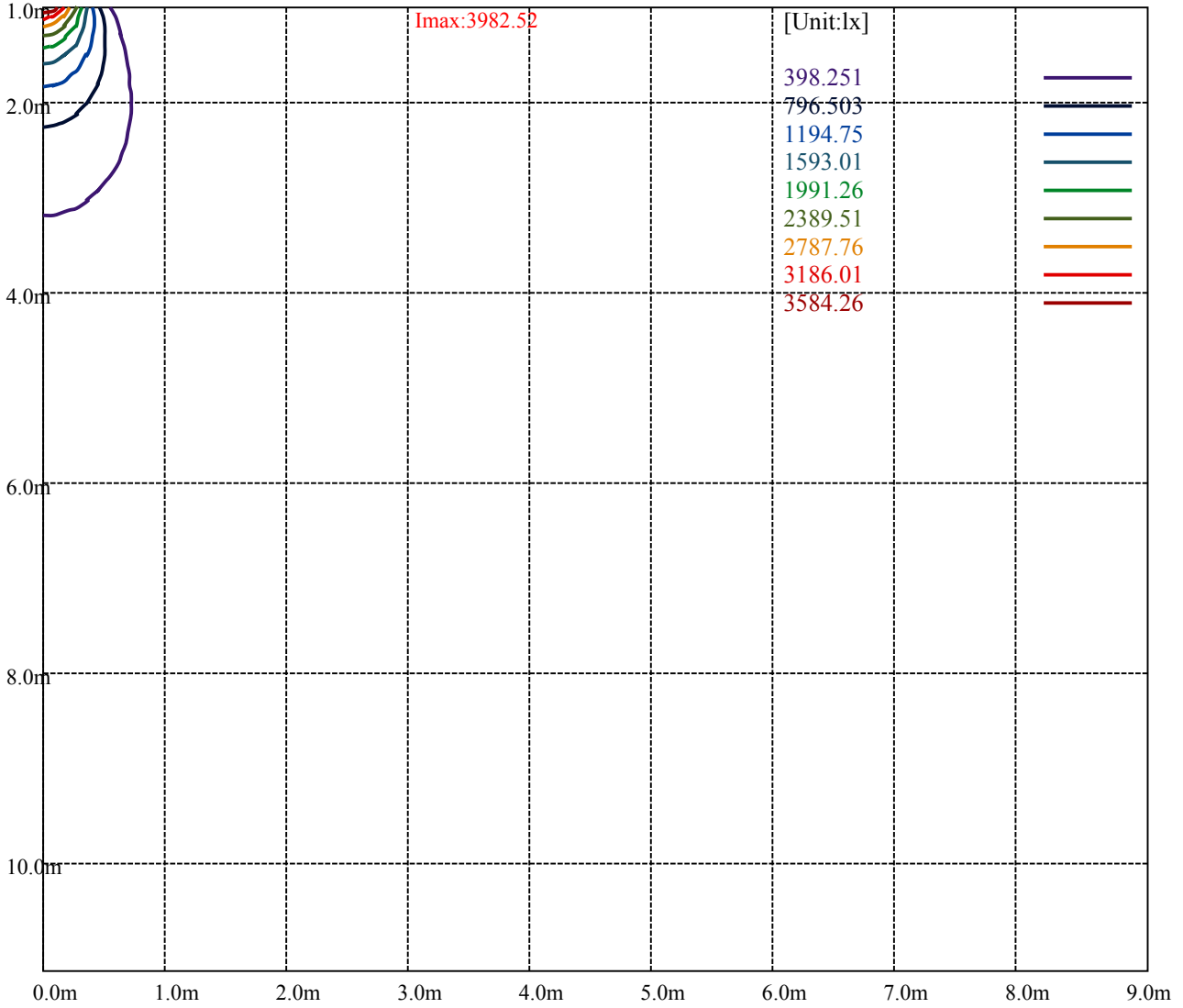


**Imax:3982.52**

(10%Imax) 398.251	—
(20%Imax) 796.503	—
(30%Imax) 1194.75	—
(40%Imax) 1593.01	—
(50%Imax) 1991.26	—
(60%Imax) 2389.51	—
(70%Imax) 2787.76	—
(80%Imax) 3186.01	—
(90%Imax) 3584.26	—



(10%Emax) 99.56275	—
(20%Emax) 199.1257	—
(30%Emax) 298.6875	—
(40%Emax) 398.2525	—
(50%Emax) 497.815	—
(60%Emax) 597.3775	—
(70%Emax) 696.94	—
(80%Emax) 796.5025	—
(90%Emax) 896.065	—



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

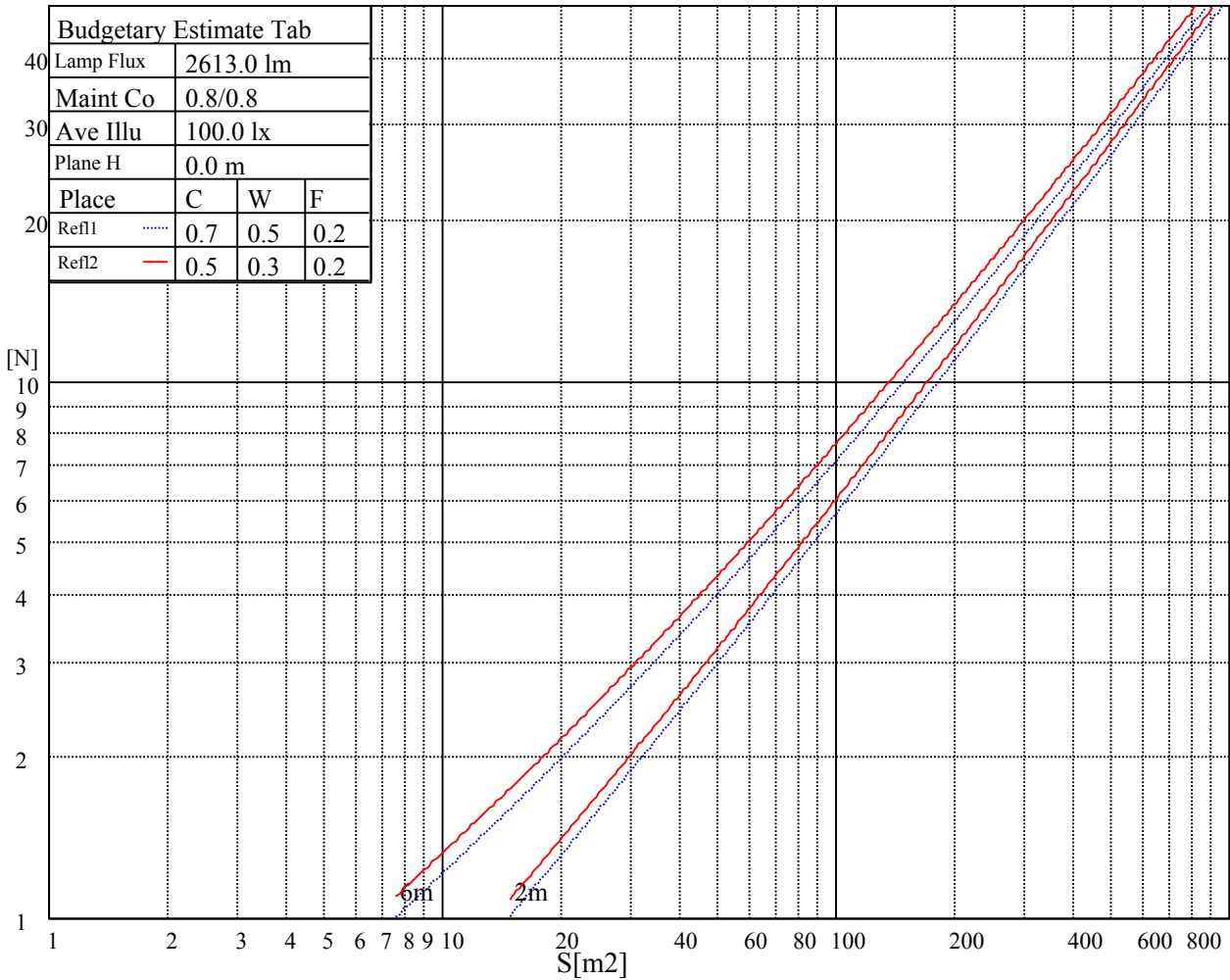
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

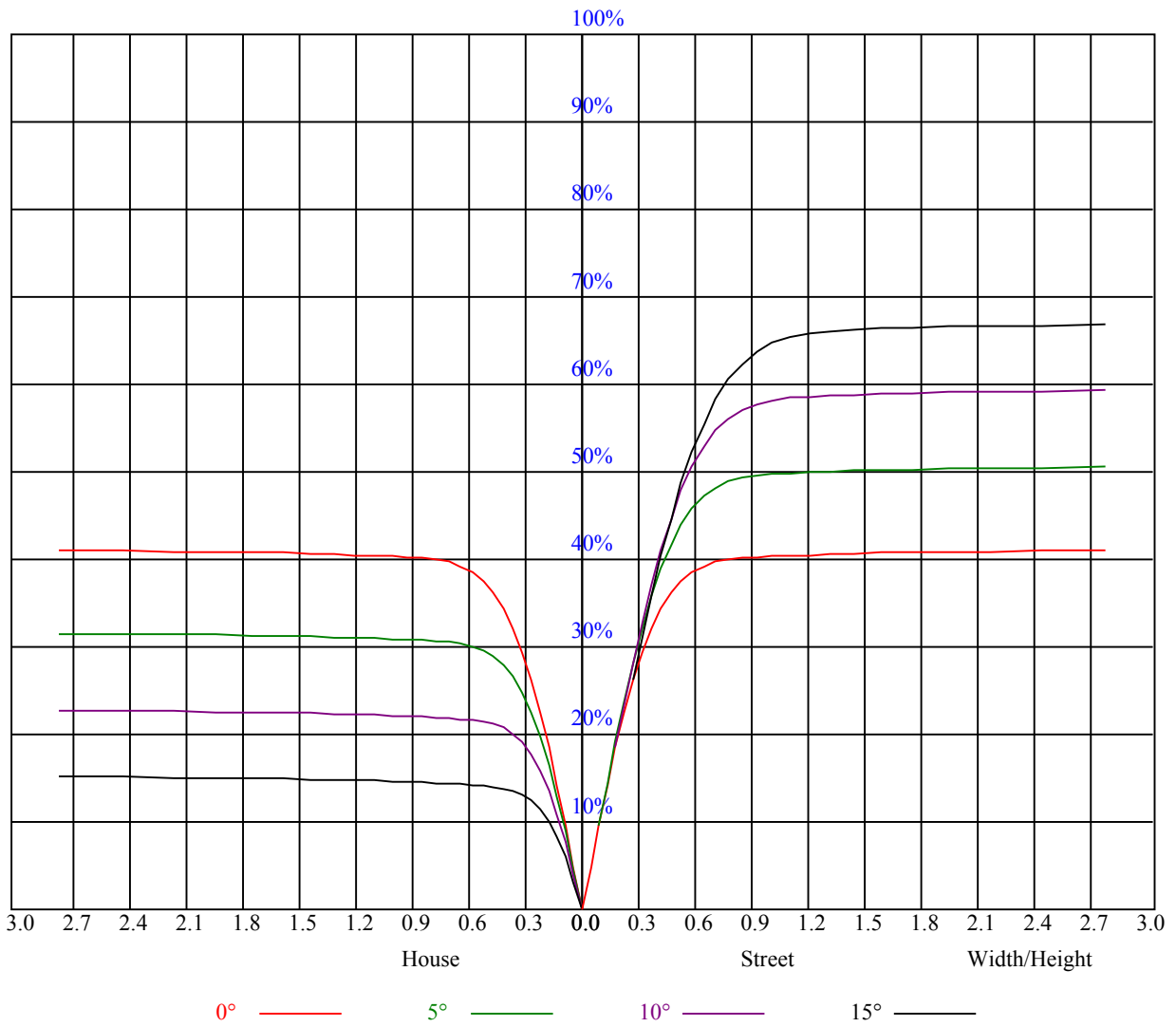


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
	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	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	
8H	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				

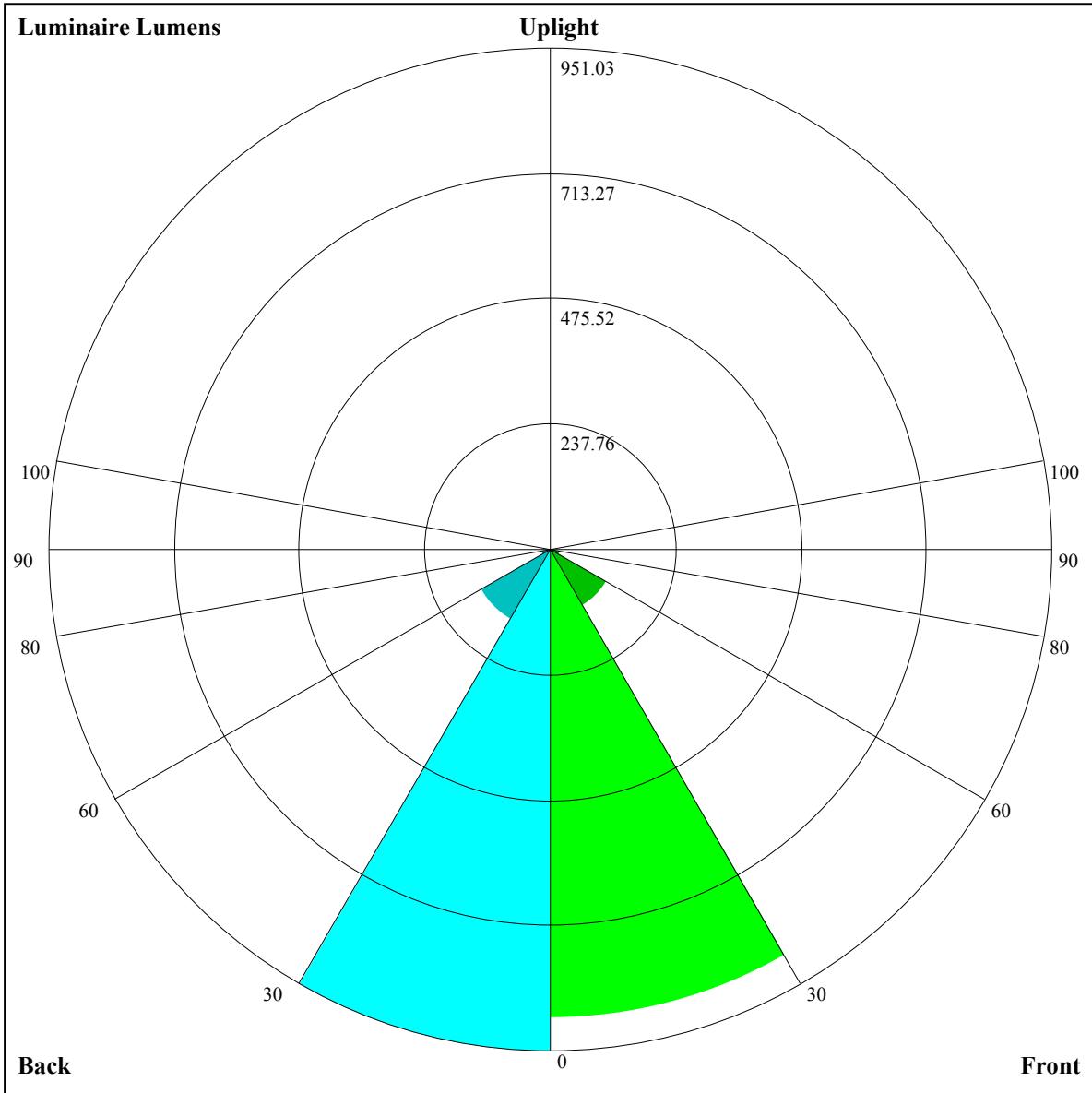
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.99	0.99	0.99	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	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.80	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.77	0.76	0.75	0.73
3	0.81	0.77	0.74	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.71	0.74	0.72	0.70	0.69
4	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.72	0.70	0.67	0.71	0.69	0.67	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	0.65	0.61	0.68	0.64	0.61	0.67	0.64	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	0.61	0.57	0.55	0.60	0.57	0.54	0.53
9	0.60	0.56	0.53	0.59	0.55	0.53	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=887.38,FM=123.24,FH=18.32,FVH=5.85

BL=951.03,BM=152,BH=18.78,BVH=6.1

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	3965.54	3942.13	3900.00	3854.35	3799.92	3722.67	3654.20	3578.71	3496.19
45.0	3985.44	3977.25	3959.11	3931.01	3878.34	3828.60	3770.08	3707.46	3614.41
90.0	3988.37	3970.81	3945.06	3906.44	3859.62	3789.39	3726.77	3656.54	3579.88
135.0	3990.71	3992.46	3986.03	3966.71	3925.75	3880.10	3827.43	3768.32	3684.05
180.0	3965.54	3979.00	3983.69	3981.34	3971.98	3943.30	3910.53	3866.64	3815.73
225.0	3985.44	3983.10	3971.98	3955.59	3924.58	3888.29	3840.89	3770.66	3703.95
270.0	3988.37	3991.29	3985.44	3970.81	3945.06	3915.21	3864.30	3812.21	3736.13
315.0	3990.71	3979.00	3957.94	3928.67	3891.80	3835.62	3777.69	3712.14	3638.40
360.0	3965.54	3942.13	3900.00	3854.35	3799.92	3722.67	3654.20	3578.71	3496.19
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3382.07	3285.51	3186.02	3080.10	2937.30	2821.43	2700.87	2542.86	2412.94
45.0	3536.57	3452.30	3336.43	3235.77	3105.26	2993.48	2876.44	2723.11	2598.46
90.0	3473.37	3380.90	3284.93	3153.84	3044.98	2902.77	2782.22	2657.57	2531.74
135.0	3606.80	3526.04	3438.26	3317.70	3215.28	3107.02	2967.73	2846.01	2727.79
180.0	3737.89	3670.00	3597.44	3514.92	3400.80	3303.65	3204.75	3073.07	2960.71
225.0	3630.21	3529.55	3442.35	3351.06	3252.15	3121.06	3013.38	2898.68	2782.80
270.0	3665.91	3591.00	3511.99	3421.87	3303.07	3199.48	3094.14	2983.54	2840.16
315.0	3561.74	3452.89	3359.25	3264.44	3159.69	3022.16	2908.04	2762.32	2641.18
360.0	3382.07	3285.51	3186.02	3080.10	2937.30	2821.43	2700.87	2542.86	2412.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2240.30	2098.68	1959.39	1781.48	1639.86	1500.58	1162.96	1162.96	1062.48
45.0	2466.78	2333.94	2162.46	2023.77	1881.56	1742.27	1573.14	1438.54	1301.60
90.0	2364.95	2225.67	2082.87	1940.66	1768.61	1631.67	1495.89	1150.03	1150.03
135.0	2572.71	2442.20	2274.83	2137.89	1999.77	1858.73	1691.36	1558.51	1419.81
180.0	2814.41	2688.00	2566.27	2438.69	2259.61	2113.31	1972.27	1830.06	1663.27
225.0	2628.30	2501.31	2366.71	2189.97	2051.27	1883.31	1748.13	1607.67	1473.66
270.0	2716.67	2586.17	2421.72	2293.56	2146.66	1964.07	1834.15	1662.68	1525.15
315.0	2518.28	2352.66	2211.62	2070.58	1899.11	1766.27	1629.32	1489.46	1148.45
360.0	2240.30	2098.68	1959.39	1781.48	1639.86	1500.58	1162.96	1162.96	1062.48
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	929.40	802.99	656.51	548.06	451.56	369.86	283.66	224.32	162.58
45.0	1124.28	989.67	862.09	713.45	602.84	505.11	396.84	320.76	302.62
90.0	1047.03	917.98	766.47	655.39	530.21	439.45	358.22	270.14	211.68
135.0	1283.46	1143.00	976.80	850.98	731.59	594.06	497.50	389.23	313.74
180.0	1532.18	1399.92	1234.88	1099.70	964.51	800.06	681.26	573.58	454.19
225.0	1138.44	1138.44	1039.07	907.16	748.74	629.59	522.78	408.37	332.29
270.0	1390.55	1253.61	1088.58	960.41	834.00	708.18	567.73	466.48	381.04
315.0	1148.45	1051.77	922.37	795.61	644.04	533.37	414.63	336.04	270.96
360.0	929.40	802.99	656.51	548.06	451.56	369.86	283.66	224.32	162.58
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	125.47	98.03	74.50	62.27	53.55	47.29	41.96	38.92	36.46
45.0	302.62	137.12	106.16	84.04	68.94	56.24	49.28	44.30	39.91
90.0	164.92	128.40	100.54	77.37	64.32	54.89	46.88	42.55	39.44
135.0	296.18	218.93	134.78	104.99	84.27	66.89	57.06	49.74	44.71
180.0	371.09	297.35	297.35	161.93	123.01	95.04	71.81	59.75	51.50
225.0	267.68	198.86	153.80	118.51	87.32	70.58	59.22	49.80	44.77
270.0	307.89	307.89	180.78	132.32	103.23	77.72	63.97	54.54	47.93
315.0	204.01	160.35	124.71	91.88	73.68	60.98	52.20	44.89	40.97
360.0	125.47	98.03	74.50	62.27	53.55	47.29	41.96	38.92	36.46

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	34.59	32.66	31.49	30.43	29.20	28.44	27.68	26.80	26.10
45.0	37.40	35.00	33.47	32.25	31.13	30.02	29.14	28.38	27.68
90.0	36.58	34.76	33.07	31.89	30.78	29.90	28.85	28.15	27.45
135.0	40.97	37.57	35.52	33.47	32.19	31.02	29.85	28.97	28.27
180.0	45.65	40.79	37.98	35.29	33.59	32.30	30.84	29.85	29.03
225.0	41.20	38.45	35.82	34.12	32.77	31.66	30.37	29.55	28.73
270.0	43.31	39.33	36.99	35.11	33.53	32.01	30.90	30.02	28.97
315.0	38.04	35.76	33.59	32.25	31.13	29.85	29.03	28.03	27.33
360.0	34.59	32.66	31.49	30.43	29.20	28.44	27.68	26.80	26.10
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.46	24.70	24.11	23.53	23.00	22.30	21.77	21.24	20.72
45.0	26.86	26.22	25.57	24.93	24.23	23.70	22.94	22.36	21.83
90.0	26.74	25.93	25.28	24.64	23.88	23.35	22.77	22.06	21.54
135.0	27.33	26.69	25.93	25.28	24.46	23.88	23.29	22.65	21.95
180.0	28.27	27.39	26.69	25.98	25.40	24.58	23.99	23.41	22.65
225.0	27.86	27.15	26.34	25.69	25.05	24.40	23.64	23.06	22.47
270.0	28.21	27.33	26.69	26.04	25.22	24.64	24.05	23.47	22.88
315.0	26.63	25.98	25.22	24.58	23.99	23.47	22.71	22.12	21.59
360.0	25.46	24.70	24.11	23.53	23.00	22.30	21.77	21.24	20.72
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.01	19.43	18.73	18.20	17.73	17.26	16.85	16.33	15.86
45.0	21.13	20.54	20.01	19.37	18.84	18.43	18.14	18.02	17.91
90.0	20.95	20.25	19.72	19.25	19.37	19.72	20.13	19.90	19.20
135.0	21.42	20.83	20.19	19.61	18.96	18.43	17.97	17.38	16.97
180.0	22.12	21.59	20.83	20.31	19.78	19.08	18.55	18.08	17.50
225.0	21.89	21.19	20.66	20.07	19.55	18.84	18.38	17.97	17.73
270.0	22.18	21.54	20.95	20.37	19.72	19.25	19.02	19.14	19.31
315.0	20.89	20.37	19.78	19.14	18.61	17.91	17.44	17.03	16.56
360.0	20.01	19.43	18.73	18.20	17.73	17.26	16.85	16.33	15.86
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.57	15.39	15.10	14.75	14.40	14.05	13.69	13.17	12.70
45.0	17.73	17.32	16.80	16.33	15.86	15.16	14.57	13.93	13.46
90.0	18.43	17.97	17.56	16.68	15.98	15.10	14.40	13.75	13.11
135.0	16.50	16.04	15.57	15.27	15.04	14.69	14.28	13.99	13.58
180.0	17.09	16.62	16.21	15.68	15.27	15.04	14.81	14.40	14.05
225.0	17.62	17.21	16.74	16.27	15.68	15.16	14.63	14.22	13.75
270.0	18.84	18.26	17.62	16.85	16.21	15.45	14.86	14.40	14.05
315.0	16.04	15.68	15.39	15.10	14.81	14.51	14.16	13.81	13.34
360.0	15.57	15.39	15.10	14.75	14.40	14.05	13.69	13.17	12.70
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.11	11.24	10.42	10.01	9.66	9.54	9.36	9.36	9.31
45.0	12.99	12.41	11.47	10.65	10.18	9.66	9.54	9.36	9.31
90.0	12.70	11.94	11.12	10.36	9.77	9.60	9.42	9.31	9.25
135.0	13.05	12.70	12.17	11.47	10.65	9.89	9.66	9.48	9.36
180.0	13.58	13.28	12.76	12.47	11.94	11.24	10.42	9.83	9.66
225.0	13.34	12.93	12.52	11.94	11.24	10.36	9.71	9.54	9.42
270.0	13.69	13.23	12.76	12.11	11.24	10.42	9.95	9.60	9.42
315.0	13.05	12.58	11.94	11.12	10.24	9.83	9.60	9.48	9.31
360.0	12.11	11.24	10.42	10.01	9.66	9.54	9.36	9.36	9.31

Intensity data(cd)

C/γ(°)	90.0
0.0	9.36
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	9.36