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NT

Client:

LumCAT: 2-2680-L

Luminaire: 92.70.412.00

Report No: 2024228-B022

Ballast type: AC

Test No: 2024228-C022

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): 2163.82, Efficiency(%): 82.81% , Luminous Efficacy(lm/W): 113.18

Central intensity(cd): 4896.344, Maximum intensity(cd): 4896.344

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

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=64.6

[C90/270]Total=64.6

Maximum s/h(1/2): C0\_180=0.60 C90\_270=0.60

Maximum s/h(1/4): C0\_180=0.60 C90\_270=0.60

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.166%

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	4896.343	0.000	0	0.00%	0.00%
1.0	4885.224	4.680	4.68	0.18%	0.22%
2.0	4864.302	13.993	18.674	0.54%	0.86%
3.0	4824.873	23.173	41.847	0.89%	1.93%
4.0	4766.716	32.106	73.953	1.23%	3.42%
5.0	4681.932	40.648	114.601	1.56%	5.30%
6.0	4587.491	48.713	163.314	1.86%	7.55%
7.0	4476.225	56.258	219.572	2.15%	10.15%
8.0	4342.062	63.111	282.683	2.42%	13.06%
9.0	4198.755	69.219	351.902	2.65%	16.26%
10.0	4038.184	74.541	426.443	2.85%	19.71%
11.0	3873.004	79.049	505.492	3.03%	23.36%
12.0	3710.458	82.898	588.39	3.17%	27.19%
13.0	3510.165	85.691	674.081	3.28%	31.15%
14.0	3324.137	87.478	761.559	3.35%	35.20%
15.0	3136.206	88.690	850.25	3.39%	39.29%
16.0	2945.130	89.109	939.358	3.41%	43.41%
17.0	2732.620	88.418	1027.776	3.38%	47.50%
18.0	2537.521	86.893	1114.669	3.33%	51.51%
19.0	2346.884	84.979	1199.648	3.25%	55.44%
20.0	2158.588	82.463	1282.111	3.16%	59.25%
21.0	1953.393	78.958	1361.069	3.02%	62.90%
22.0	1734.344	74.107	1435.176	2.84%	66.33%
23.0	1555.967	69.040	1504.215	2.64%	69.52%
24.0	1402.667	64.686	1568.902	2.48%	72.51%
25.0	1261.855	60.585	1629.487	2.32%	75.31%
26.0	1129.199	56.441	1685.928	2.16%	77.91%
27.0	1023.954	52.677	1738.606	2.02%	80.35%
28.0	905.350	48.846	1787.451	1.87%	82.61%
29.0	797.954	44.563	1832.015	1.71%	84.67%
30.0	686.798	40.088	1872.103	1.53%	86.52%
31.0	598.188	35.759	1907.862	1.37%	88.17%
32.0	510.697	31.768	1939.63	1.22%	89.64%
33.0	434.017	27.832	1967.462	1.07%	90.93%
34.0	357.221	23.945	1991.407	0.92%	92.03%
35.0	302.649	20.493	2011.9	0.78%	92.98%
36.0	248.867	17.560	2029.461	0.67%	93.79%
37.0	196.833	14.536	2043.997	0.56%	94.46%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	168.303	12.188	2056.185	0.47%	95.03%
39.0	116.613	9.725	2065.91	0.37%	95.48%
40.0	91.346	7.253	2073.163	0.28%	95.81%
41.0	73.153	5.858	2079.02	0.22%	96.08%
42.0	59.386	4.815	2083.836	0.18%	96.30%
43.0	49.144	4.020	2087.856	0.15%	96.49%
44.0	42.568	3.461	2091.317	0.13%	96.65%
45.0	37.740	3.086	2094.404	0.12%	96.79%
46.0	33.782	2.797	2097.201	0.11%	96.92%
47.0	30.776	2.568	2099.768	0.10%	97.04%
48.0	28.530	2.397	2102.166	0.09%	97.15%
49.0	26.577	2.263	2104.429	0.09%	97.26%
50.0	24.733	2.139	2106.568	0.08%	97.35%
51.0	23.241	2.030	2108.598	0.08%	97.45%
52.0	22.056	1.944	2110.541	0.07%	97.54%
53.0	21.002	1.873	2112.414	0.07%	97.62%
54.0	20.044	1.809	2114.224	0.07%	97.71%
55.0	19.173	1.751	2115.974	0.07%	97.79%
56.0	18.478	1.701	2117.676	0.07%	97.87%
57.0	17.864	1.662	2119.337	0.06%	97.94%
58.0	17.293	1.626	2120.963	0.06%	98.02%
59.0	16.803	1.594	2122.557	0.06%	98.09%
60.0	16.408	1.569	2124.126	0.06%	98.17%
61.0	16.057	1.549	2125.675	0.06%	98.24%
62.0	15.750	1.533	2127.208	0.06%	98.31%
63.0	15.428	1.516	2128.724	0.06%	98.38%
64.0	15.194	1.503	2130.227	0.06%	98.45%
65.0	14.982	1.493	2131.72	0.06%	98.52%
66.0	14.828	1.487	2133.208	0.06%	98.59%
67.0	14.726	1.486	2134.694	0.06%	98.65%
68.0	14.616	1.486	2136.18	0.06%	98.72%
69.0	14.528	1.487	2137.667	0.06%	98.79%
70.0	14.360	1.484	2139.151	0.06%	98.86%
71.0	14.170	1.475	2140.625	0.06%	98.93%
72.0	13.972	1.463	2142.088	0.06%	99.00%
73.0	13.702	1.447	2143.536	0.06%	99.06%
74.0	13.394	1.425	2144.96	0.05%	99.13%
75.0	12.999	1.395	2146.355	0.05%	99.19%

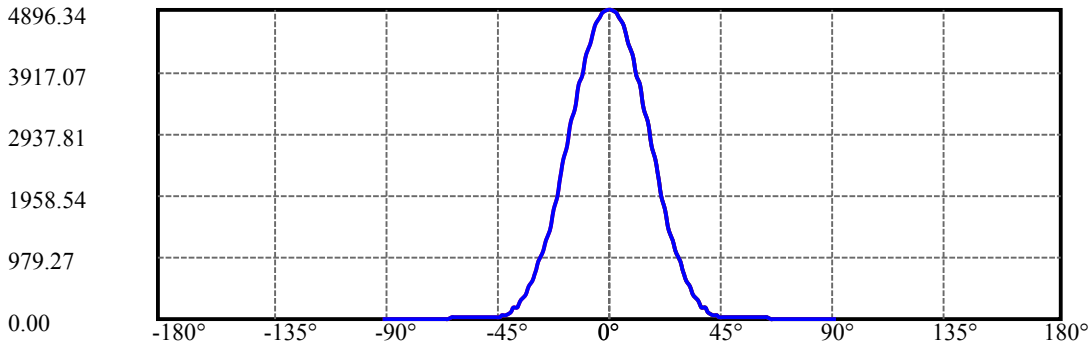
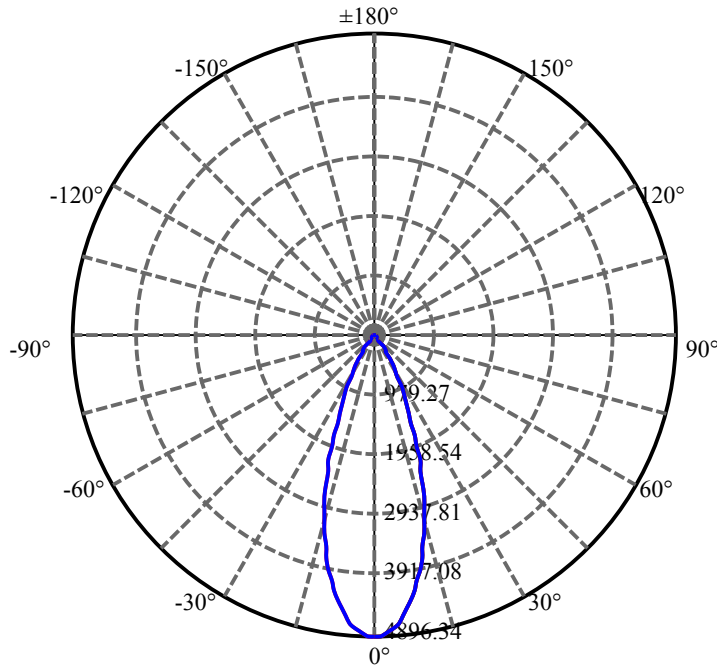
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.612	1.360	2147.714	0.05%	99.26%
77.0	12.275	1.327	2149.041	0.05%	99.32%
78.0	11.953	1.297	2150.338	0.05%	99.38%
79.0	11.595	1.265	2151.603	0.05%	99.44%
80.0	11.185	1.228	2152.831	0.05%	99.49%
81.0	10.922	1.196	2154.027	0.05%	99.55%
82.0	10.658	1.170	2155.197	0.04%	99.60%
83.0	10.439	1.147	2156.344	0.04%	99.65%
84.0	10.219	1.125	2157.469	0.04%	99.71%
85.0	10.029	1.105	2158.575	0.04%	99.76%
86.0	9.781	1.083	2159.657	0.04%	99.81%
87.0	9.583	1.060	2160.717	0.04%	99.86%
88.0	9.459	1.043	2161.76	0.04%	99.90%
89.0	9.386	1.033	2162.793	0.04%	99.95%
90.0	9.327	1.026	2163.819	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1872.10	71.65%	86.52%
0-40	2073.16	79.34%	95.81%
0-60	2124.13	81.29%	98.17%
0-90	2162.79	82.77%	99.95%
0-120	2162.79	82.77%	99.95%
0-180	2163.82	82.81%	100.00%
60-90	38.67	1.48%	1.79%
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%
0-26.86	1731.06	66.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	426.44
10-20	855.67
20-30	589.99
30-40	201.06
40-50	33.41
50-60	17.56
60-70	15.02
70-80	13.68
80-90	9.96
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: —————

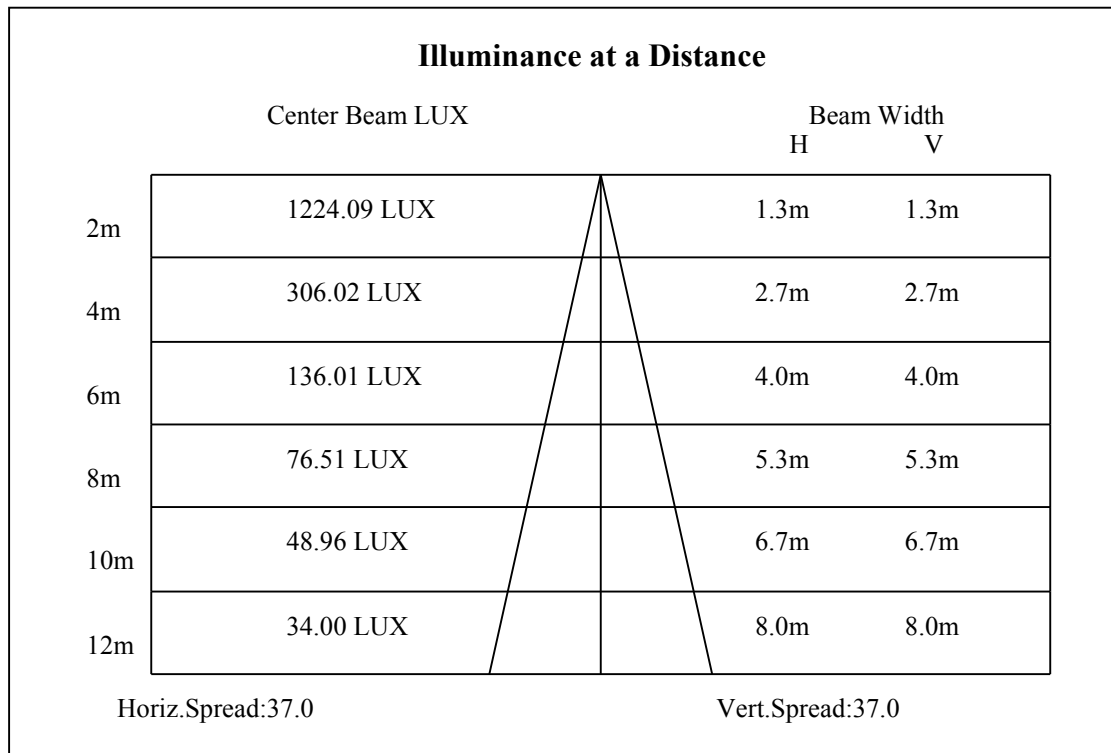
C90/C270: —————

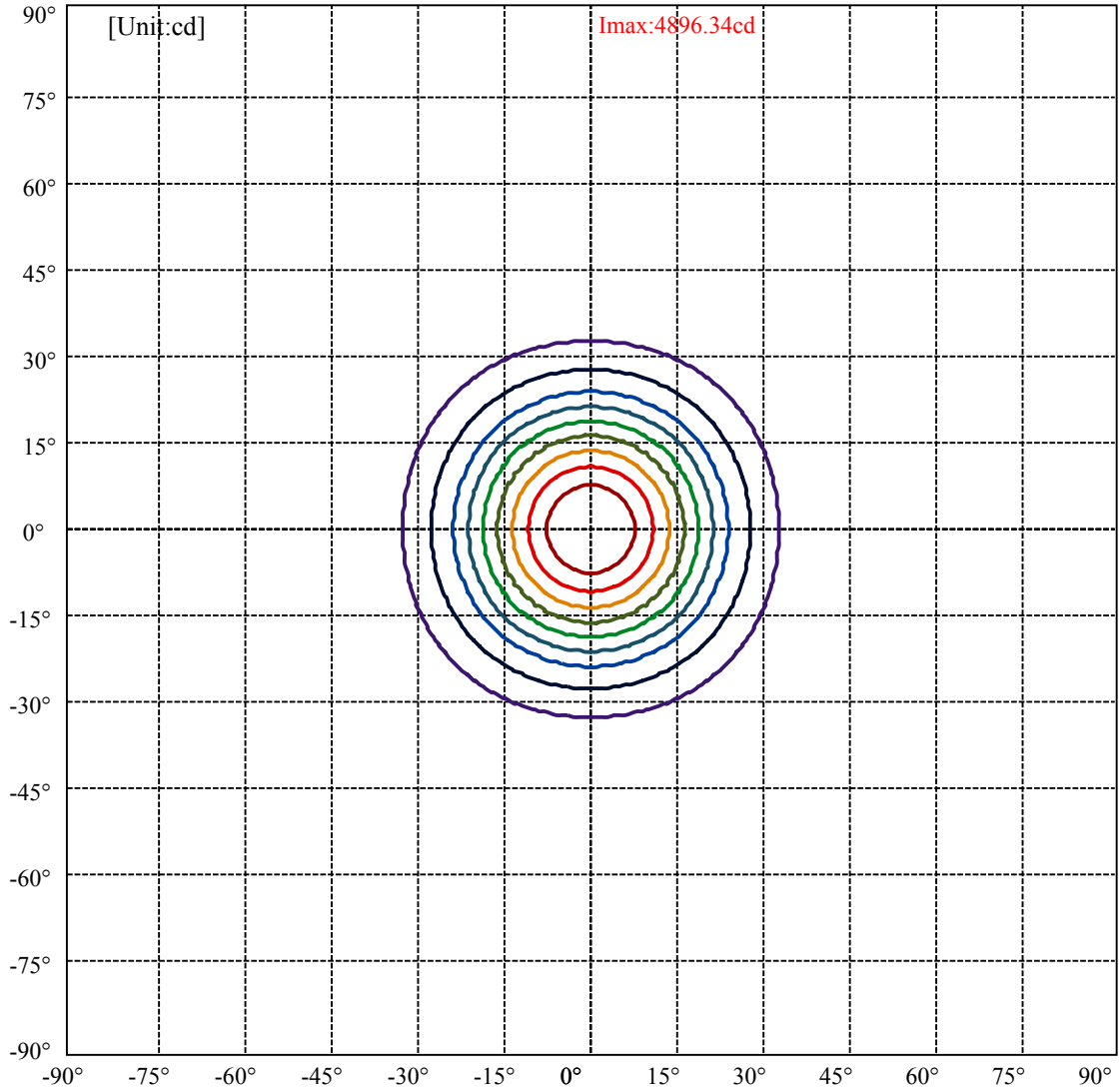
Field angle(10%Imax):C0/180Left:32.3 Right:32.3

:C90/270Left:32.3 Right:32.3

Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5

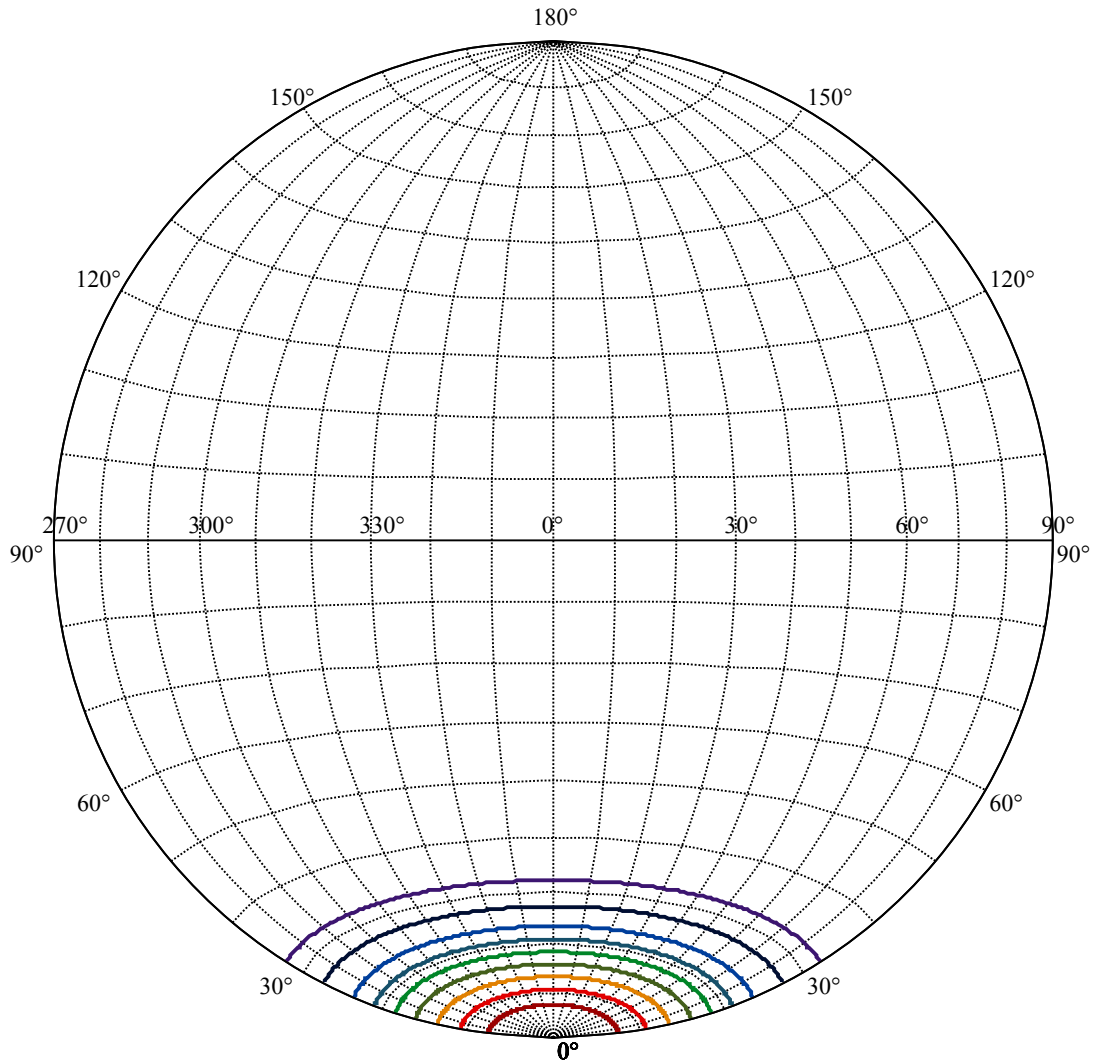
:C90/270Left:18.5 Right:18.5





(10%I <sub>max</sub> ) 489.634	—
(20%I <sub>max</sub> ) 979.269	—
(30%I <sub>max</sub> ) 1468.9	—
(40%I <sub>max</sub> ) 1958.54	—
(50%I <sub>max</sub> ) 2448.17	—
(60%I <sub>max</sub> ) 2937.81	—
(70%I <sub>max</sub> ) 3427.44	—
(80%I <sub>max</sub> ) 3917.07	—
(90%I <sub>max</sub> ) 4406.71	—





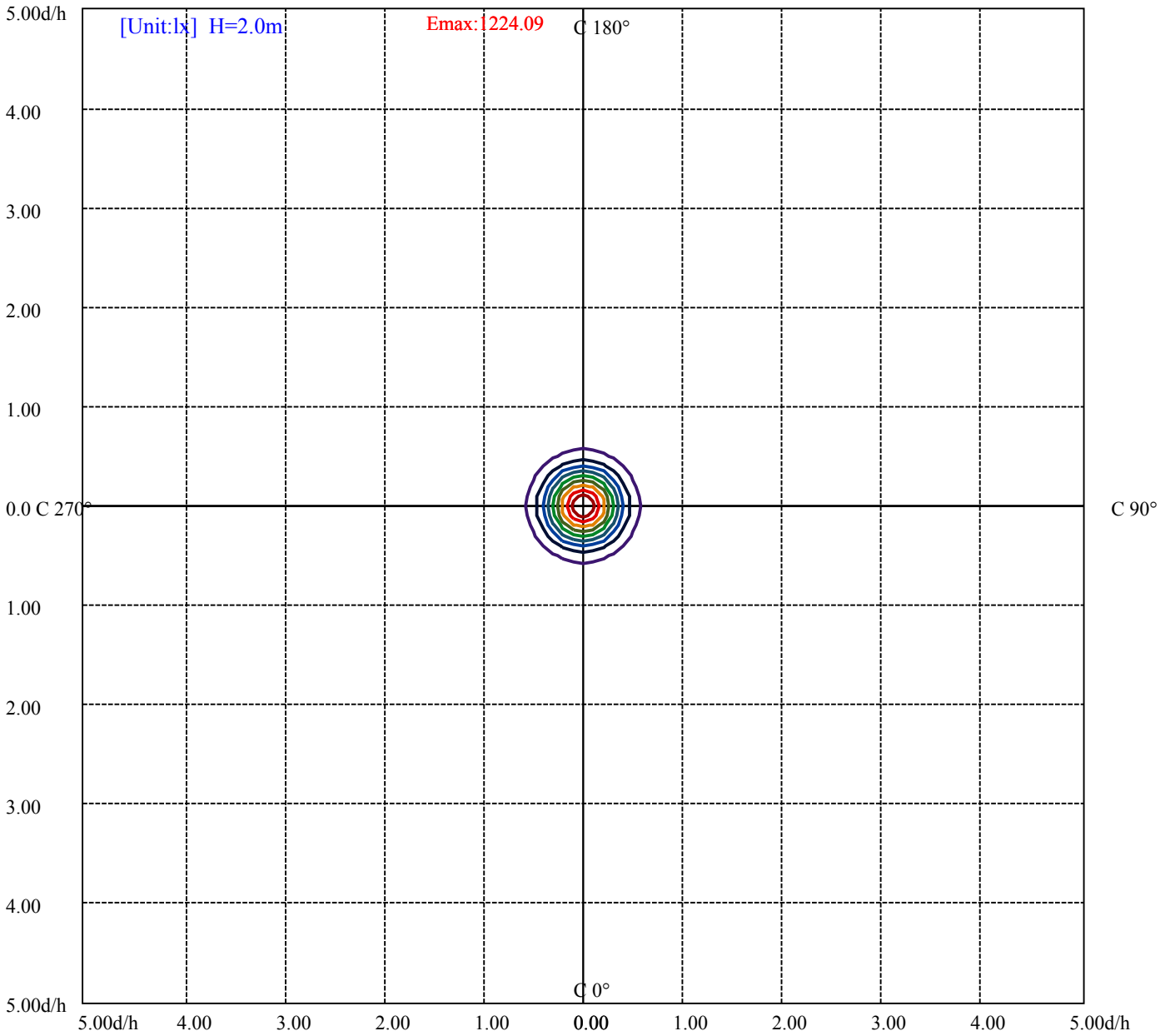
House

[Unit:cd]

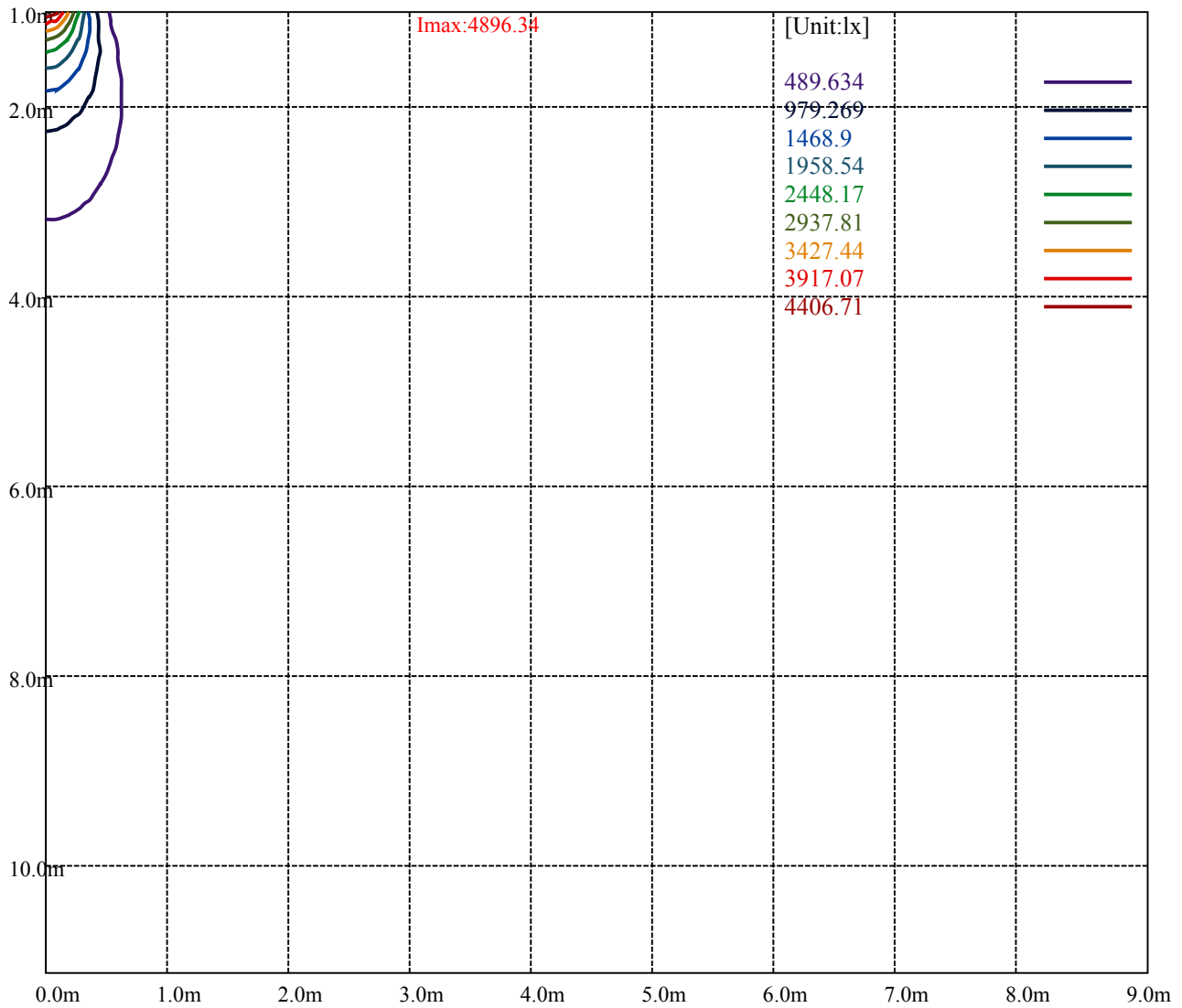
Road

Imax:4896.34

(10%Imax)	489.634	—
(20%Imax)	979.269	—
(30%Imax)	1468.9	—
(40%Imax)	1958.54	—
(50%Imax)	2448.17	—
(60%Imax)	2937.81	—
(70%Imax)	3427.44	—
(80%Imax)	3917.07	—
(90%Imax)	4406.71	—



- (10%Emax) 122.4085
- (20%Emax) 244.817
- (30%Emax) 367.225
- (40%Emax) 489.635
- (50%Emax) 612.0425
- (60%Emax) 734.4525
- (70%Emax) 856.86
- (80%Emax) 979.2675
- (90%Emax) 1101.677



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

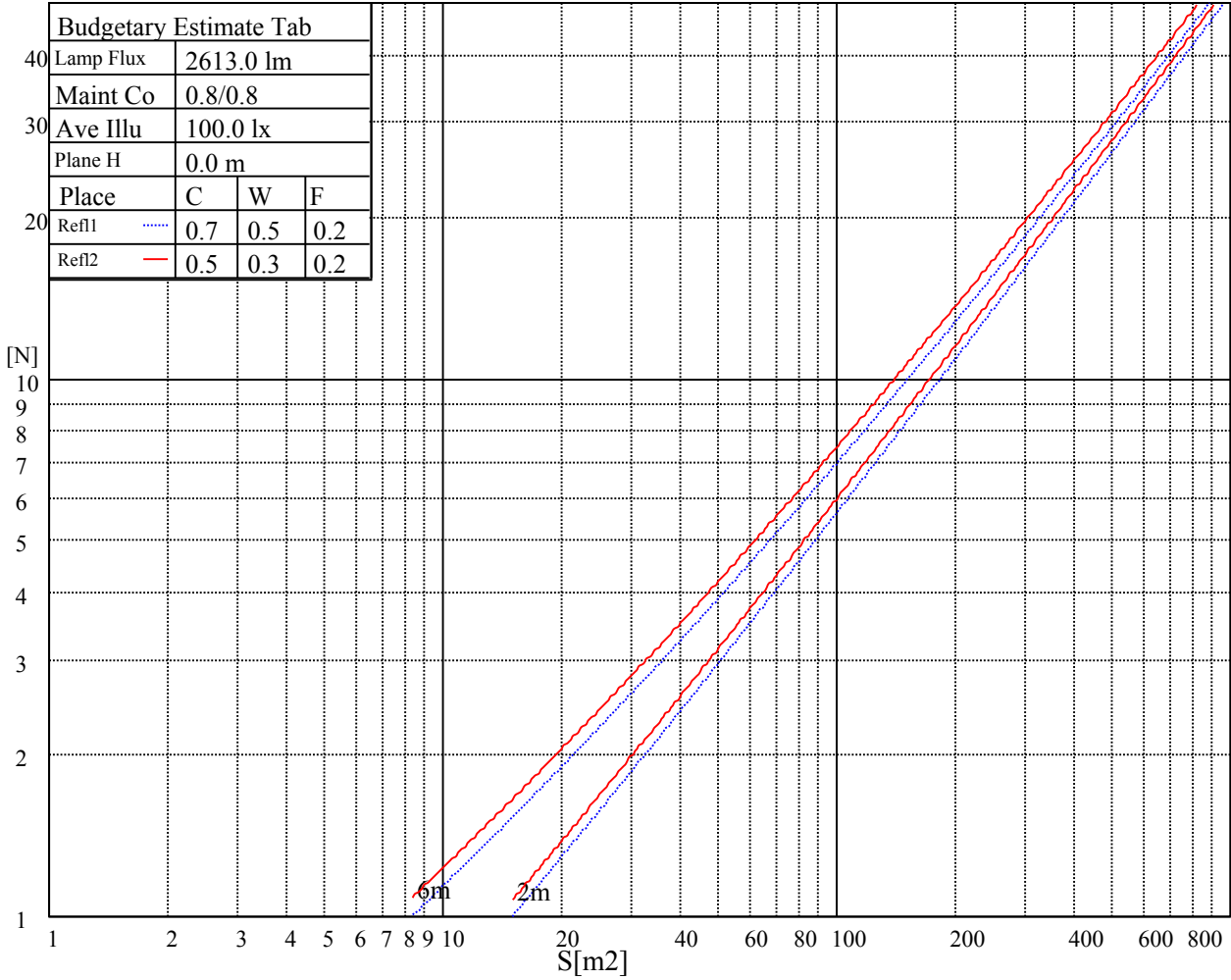
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

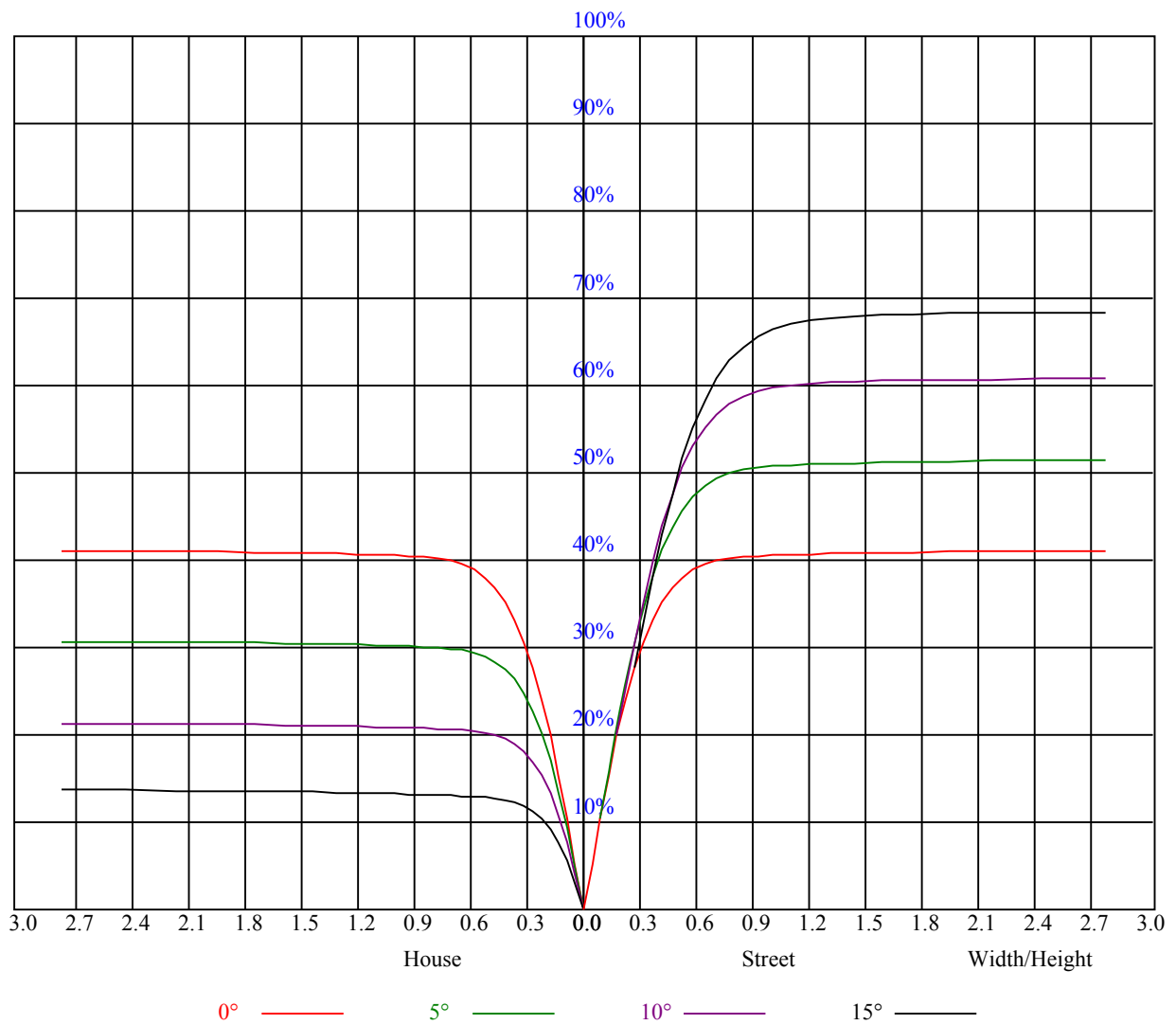


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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
	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
8H	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
12H	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				

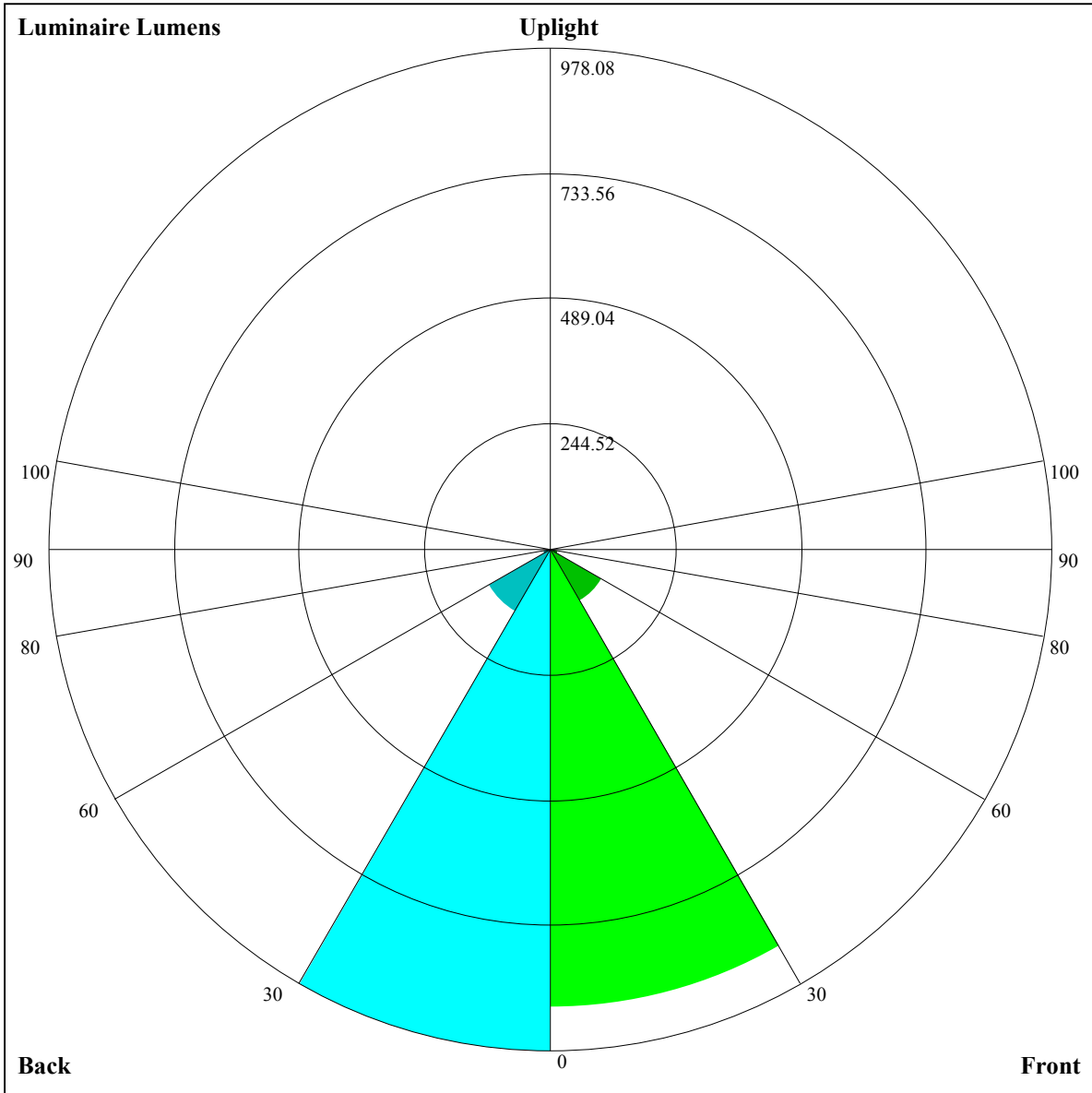
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOFC=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	0.89	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.80	0.78
2	0.87	0.84	0.81	0.85	0.83	0.80	0.83	0.80	0.79	0.80	0.78	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.78	0.75	0.79	0.76	0.74	0.77	0.74	0.73	0.75	0.73	0.71	0.70
4	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
5	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
6	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.66	0.64	0.62	0.61
7	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.55
9	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.51







Luminaire Lumens:

FL=891.93,FM=114.57,FH=14.5,FVH=5.46

BL=978.08,BM=141.58,BH=14.61,BVH=5.54

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	4864.45	4811.78	4764.38	4696.49	4598.76	4465.91	4345.35	4218.95	4031.67
45.0	4906.00	4879.66	4843.38	4784.27	4721.07	4600.51	4495.17	4370.52	4209.00
90.0	4896.64	4856.84	4824.65	4738.04	4641.48	4546.09	4406.80	4279.22	4128.82
135.0	4918.29	4911.85	4886.69	4865.03	4795.98	4715.22	4632.11	4508.05	4396.27
180.0	4864.45	4897.81	4913.61	4907.76	4890.20	4855.09	4798.90	4699.42	4618.65
225.0	4906.00	4915.36	4901.32	4884.35	4841.04	4757.94	4676.01	4584.71	4475.86
270.0	4896.64	4911.85	4910.68	4893.12	4859.18	4822.31	4755.60	4665.47	4545.50
315.0	4918.29	4896.64	4869.72	4829.92	4786.03	4692.39	4589.98	4483.47	4330.72
360.0	4864.45	4811.78	4764.38	4696.49	4598.76	4465.91	4345.35	4218.95	4031.67
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3871.32	3660.06	3489.17	3313.02	3087.71	2902.19	2713.16	2524.72	2291.80
45.0	4058.01	3901.75	3733.79	3562.32	3343.45	3163.20	2974.17	2738.91	2553.98
90.0	3932.19	3769.49	3601.53	3431.82	3203.58	3018.65	2831.96	2647.62	2421.72
135.0	4224.80	4076.74	3921.07	3763.06	3554.13	3370.95	3183.68	2997.00	2762.32
180.0	4518.00	4375.20	4237.09	4091.95	3900.58	3739.06	3567.00	3385.00	3156.18
225.0	4360.57	4182.66	4039.28	3883.03	3682.29	3513.75	3287.85	3103.51	2922.09
270.0	4431.97	4306.14	4127.07	3966.71	3805.19	3595.68	3424.80	3245.13	3018.06
315.0	4193.20	4033.43	3835.04	3671.76	3504.39	3289.61	3107.02	2919.16	2734.81
360.0	3871.32	3660.06	3489.17	3313.02	3087.71	2902.19	2713.16	2524.72	2291.80
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2109.79	1931.30	1753.98	1548.56	1162.67	1162.67	1132.94	993.13	887.03
45.0	2369.05	2145.49	1966.41	1747.54	1584.26	1432.69	1293.41	1135.40	1017.76
90.0	2242.64	2057.12	1830.64	1659.17	1463.71	1159.16	1159.16	1071.37	930.04
135.0	2580.90	2401.24	2213.38	1979.29	1802.55	1598.89	1451.42	1310.96	1145.34
180.0	2969.49	2776.95	2596.70	2375.49	2180.02	1938.91	1766.85	1605.92	1422.16
225.0	2690.92	2502.48	2318.13	2131.45	1907.89	1738.76	1581.34	1333.20	1164.95
270.0	2832.55	2642.35	2458.00	2236.20	2043.08	1850.54	1686.68	1495.31	1346.66
315.0	2504.82	2318.13	2131.45	1949.44	1730.57	1566.12	1149.56	1149.56	1119.65
360.0	2109.79	1931.30	1753.98	1548.56	1162.67	1162.67	1132.94	993.13	887.03
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	784.85	668.15	582.53	481.46	406.85	340.25	281.14	216.12	172.64
45.0	908.33	806.50	688.87	601.08	518.57	422.59	356.46	296.77	296.77
90.0	825.99	731.94	643.81	538.17	459.81	388.88	326.79	258.85	210.15
135.0	1025.37	915.94	791.87	698.82	610.45	526.76	431.95	364.65	303.79
180.0	1283.46	1155.29	1036.49	901.89	800.06	704.08	613.96	512.13	436.05
225.0	1134.58	1018.47	909.97	785.72	689.28	576.91	495.45	422.06	340.84
270.0	1223.18	1074.53	958.07	832.25	733.93	642.05	556.61	457.70	388.06
315.0	1005.88	871.99	772.03	654.98	566.56	484.04	409.77	329.48	272.89
360.0	784.85	668.15	582.53	481.46	406.85	340.25	281.14	216.12	172.64
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	137.35	109.09	82.52	67.36	56.18	46.35	40.85	36.69	32.66
45.0	182.82	145.72	108.97	86.79	70.40	56.01	47.87	42.02	37.75
90.0	168.43	126.29	100.01	76.20	62.62	52.67	45.65	39.33	35.64
135.0	303.79	182.59	143.67	112.48	84.04	68.00	56.53	46.47	40.97
180.0	366.99	304.38	304.38	184.46	136.88	107.51	84.74	65.14	54.37
225.0	283.72	231.75	176.21	139.81	110.96	88.43	71.75	57.00	48.81
270.0	325.44	296.18	296.18	159.12	124.59	97.44	72.92	59.58	50.27
315.0	222.39	178.67	134.48	106.69	85.09	68.82	54.78	46.94	40.09
360.0	137.35	109.09	82.52	67.36	56.18	46.35	40.85	36.69	32.66

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	30.08	27.92	25.63	24.11	22.77	21.30	20.37	19.55	18.79
45.0	34.29	30.96	28.73	26.80	25.22	23.53	22.36	21.13	20.25
90.0	32.71	30.26	27.80	26.10	24.64	23.35	22.00	21.07	20.07
135.0	36.69	32.83	30.31	28.09	26.22	24.29	22.88	21.83	20.83
180.0	46.70	39.91	35.99	32.89	30.31	27.68	25.87	24.35	22.88
225.0	42.84	37.34	34.06	31.37	28.62	26.74	24.76	23.35	22.24
270.0	42.49	38.10	33.94	31.25	29.03	26.74	25.16	23.76	22.53
315.0	36.11	32.95	29.73	27.62	25.81	24.23	22.53	21.42	20.42
360.0	30.08	27.92	25.63	24.11	22.77	21.30	20.37	19.55	18.79
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.20	17.44	16.97	16.56	16.15	15.80	15.51	15.27	15.04
45.0	19.55	18.67	18.08	17.62	17.09	16.68	16.33	16.04	15.74
90.0	19.31	18.67	17.97	17.44	16.97	16.56	16.27	15.98	15.74
135.0	19.78	19.02	18.32	17.62	17.09	16.50	16.15	15.92	15.57
180.0	21.48	20.48	19.55	18.67	17.97	17.26	16.80	16.33	15.98
225.0	21.24	20.13	19.37	18.67	18.08	17.56	17.03	16.56	16.21
270.0	21.24	20.31	19.55	18.84	18.08	17.56	17.09	16.62	16.27
315.0	19.55	18.67	18.02	17.50	16.91	16.50	16.09	15.74	15.45
360.0	18.20	17.44	16.97	16.56	16.15	15.80	15.51	15.27	15.04
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.75	14.51	14.28	13.99	13.64	13.40	13.17	12.93	12.64
45.0	15.45	15.22	14.98	14.69	14.57	14.51	14.63	14.81	15.10
90.0	15.45	15.39	15.63	16.15	17.09	17.91	18.49	18.32	17.79
135.0	15.22	15.04	14.75	14.51	14.28	13.93	13.75	13.40	13.11
180.0	15.57	15.33	15.04	14.81	14.51	14.34	14.10	13.87	13.52
225.0	15.86	15.57	15.22	14.98	14.75	14.46	14.22	13.99	13.75
270.0	15.92	15.57	15.33	15.10	14.81	14.57	14.28	14.22	14.40
315.0	15.22	14.92	14.63	14.40	14.16	13.81	13.58	13.34	13.05
360.0	14.75	14.51	14.28	13.99	13.64	13.40	13.17	12.93	12.64
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.47	12.23	11.94	11.76	11.47	11.24	11.06	10.89	10.59
45.0	15.10	14.86	14.51	14.05	13.52	13.11	12.47	11.88	11.47
90.0	17.21	16.80	16.50	15.74	14.86	14.16	13.64	12.64	11.12
135.0	12.93	12.64	12.41	12.17	11.94	11.70	11.47	11.29	11.06
180.0	13.34	12.99	12.76	12.52	12.29	12.06	11.88	11.65	11.41
225.0	13.75	13.58	13.28	12.87	12.47	12.11	11.88	11.65	11.41
270.0	14.22	13.87	13.40	12.76	12.47	12.23	11.88	11.65	11.47
315.0	12.76	12.64	12.35	12.11	11.88	11.59	11.35	11.12	10.94
360.0	12.47	12.23	11.94	11.76	11.47	11.24	11.06	10.89	10.59
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.36	10.18	10.07	9.89	9.66	9.48	9.36	9.31	9.31
45.0	11.18	10.71	10.30	10.07	9.89	9.60	9.42	9.31	9.31
90.0	10.65	10.36	10.18	10.01	9.71	9.54	9.42	9.31	9.31
135.0	10.77	10.59	10.42	10.24	10.01	9.71	9.54	9.42	9.31
180.0	11.24	10.94	10.71	10.48	10.36	10.12	9.95	9.71	9.60
225.0	11.18	10.89	10.71	10.42	10.18	9.95	9.66	9.54	9.48
270.0	11.24	11.00	10.71	10.42	10.24	10.07	9.77	9.60	9.42
315.0	10.77	10.59	10.42	10.24	10.18	9.77	9.54	9.48	9.36
360.0	10.36	10.18	10.07	9.89	9.66	9.48	9.36	9.31	9.31

Intensity data(cd)

<i>C/γ(°)</i>	<b>90.0</b>
<b>0.0</b>	<b>9.31</b>
<b>45.0</b>	<b>9.31</b>
<b>90.0</b>	<b>9.25</b>
<b>135.0</b>	<b>9.25</b>
<b>180.0</b>	<b>9.42</b>
<b>225.0</b>	<b>9.42</b>
<b>270.0</b>	<b>9.36</b>
<b>315.0</b>	<b>9.31</b>
<b>360.0</b>	<b>9.31</b>