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NT

Client:

LumCAT: 2-2683-L

Luminaire: 92.70.412.00

Report No: 2024228-B028

Ballast type: AC

Test No: 2024228-C028

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): 2244.49, Efficiency(%): 85.90% , Luminous Efficacy(lm/W): 117.40

Central intensity(cd): 8009.301, Maximum intensity(cd): 8009.301

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

Beam Angle(50%Imax): [C0/180]Total=23.8

[C90/270]Total=23.8

Field angle(10%Imax): [C0/180]Total=58.4

[C90/270]Total=58.4

Maximum s/h(1/2): C0\_180=0.40 C90\_270=0.40

Maximum s/h(1/4): C0\_180=0.44 C90\_270=0.44

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.90%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.914%

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	8009.302	0.000	0	0.00%	0.00%
1.0	7971.262	7.646	7.646	0.29%	0.34%
2.0	7866.507	22.732	30.378	0.87%	1.35%
3.0	7677.918	37.177	67.555	1.42%	3.01%
4.0	7416.103	50.525	118.08	1.93%	5.26%
5.0	7074.258	62.337	180.417	2.39%	8.04%
6.0	6691.814	72.344	252.761	2.77%	11.26%
7.0	6278.352	80.506	333.267	3.08%	14.85%
8.0	5806.515	86.489	419.756	3.31%	18.70%
9.0	5337.457	90.316	510.072	3.46%	22.73%
10.0	4847.038	92.166	602.238	3.53%	26.83%
11.0	4414.264	92.539	694.777	3.54%	30.95%
12.0	3976.736	91.726	786.503	3.51%	35.04%
13.0	3583.830	89.725	876.227	3.43%	39.04%
14.0	3201.532	86.852	963.08	3.32%	42.91%
15.0	2884.633	83.554	1046.633	3.20%	46.63%
16.0	2581.267	80.091	1126.724	3.07%	50.20%
17.0	2319.671	76.321	1203.045	2.92%	53.60%
18.0	2070.146	72.379	1275.423	2.77%	56.82%
19.0	1866.999	68.498	1343.921	2.62%	59.88%
20.0	1680.166	64.923	1408.844	2.48%	62.77%
21.0	1506.918	61.198	1470.043	2.34%	65.50%
22.0	1340.187	57.214	1527.257	2.19%	68.04%
23.0	1246.485	54.275	1581.532	2.08%	70.46%
24.0	1175.966	52.963	1634.496	2.03%	72.82%
25.0	1092.044	51.570	1686.065	1.97%	75.12%
26.0	1024.027	49.950	1736.015	1.91%	77.35%
27.0	962.388	48.598	1784.613	1.86%	79.51%
28.0	896.360	47.060	1831.673	1.80%	81.61%
29.0	820.515	44.918	1876.591	1.72%	83.61%
30.0	735.489	42.012	1918.603	1.61%	85.48%
31.0	647.990	38.500	1957.103	1.47%	87.20%
32.0	558.334	34.560	1991.663	1.32%	88.74%
33.0	466.183	30.183	2021.846	1.16%	90.08%
34.0	377.434	25.530	2047.376	0.98%	91.22%
35.0	297.989	20.976	2068.352	0.80%	92.15%
36.0	250.769	17.473	2085.825	0.67%	92.93%
37.0	189.606	14.363	2100.187	0.55%	93.57%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	130.512	10.685	2110.872	0.41%	94.05%
39.0	86.218	7.398	2118.27	0.28%	94.38%
40.0	71.119	5.487	2123.757	0.21%	94.62%
41.0	63.036	4.777	2128.534	0.18%	94.83%
42.0	58.310	4.409	2132.943	0.17%	95.03%
43.0	54.645	4.184	2137.127	0.16%	95.22%
44.0	51.858	4.020	2141.147	0.15%	95.40%
45.0	49.781	3.906	2145.053	0.15%	95.57%
46.0	48.135	3.829	2148.883	0.15%	95.74%
47.0	46.825	3.777	2152.659	0.14%	95.91%
48.0	45.808	3.745	2156.404	0.14%	96.08%
49.0	44.879	3.724	2160.128	0.14%	96.24%
50.0	43.789	3.697	2163.825	0.14%	96.41%
51.0	43.051	3.674	2167.499	0.14%	96.57%
52.0	42.070	3.653	2171.152	0.14%	96.73%
53.0	41.068	3.617	2174.768	0.14%	96.89%
54.0	39.934	3.570	2178.339	0.14%	97.05%
55.0	38.625	3.507	2181.845	0.13%	97.21%
56.0	37.133	3.423	2185.269	0.13%	97.36%
57.0	35.509	3.321	2188.59	0.13%	97.51%
58.0	33.570	3.194	2191.784	0.12%	97.65%
59.0	31.339	3.035	2194.819	0.12%	97.79%
60.0	29.188	2.860	2197.678	0.11%	97.91%
61.0	26.986	2.681	2200.359	0.10%	98.03%
62.0	25.223	2.516	2202.875	0.10%	98.15%
63.0	23.614	2.375	2205.25	0.09%	98.25%
64.0	21.895	2.233	2207.483	0.09%	98.35%
65.0	20.629	2.104	2209.588	0.08%	98.45%
66.0	19.334	1.994	2211.582	0.08%	98.53%
67.0	18.098	1.882	2213.464	0.07%	98.62%
68.0	17.052	1.781	2215.244	0.07%	98.70%
69.0	16.269	1.700	2216.944	0.07%	98.77%
70.0	15.574	1.635	2218.58	0.06%	98.85%
71.0	15.033	1.582	2220.162	0.06%	98.92%
72.0	14.587	1.540	2221.702	0.06%	98.98%
73.0	14.228	1.507	2223.209	0.06%	99.05%
74.0	13.884	1.478	2224.687	0.06%	99.12%
75.0	13.519	1.448	2226.134	0.06%	99.18%

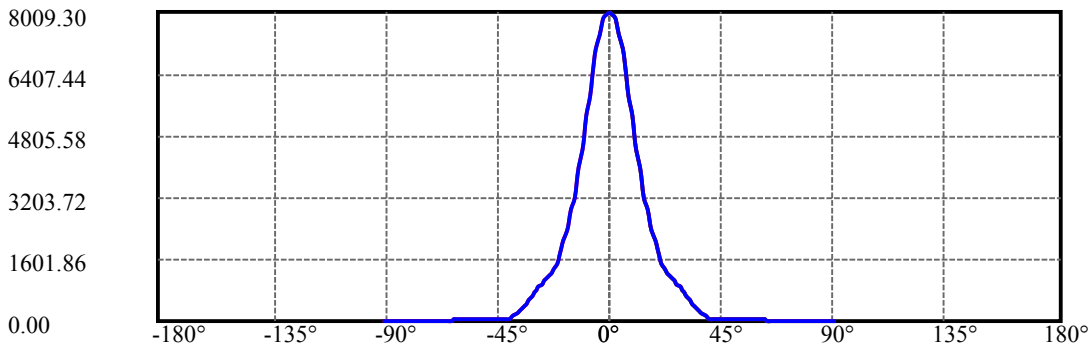
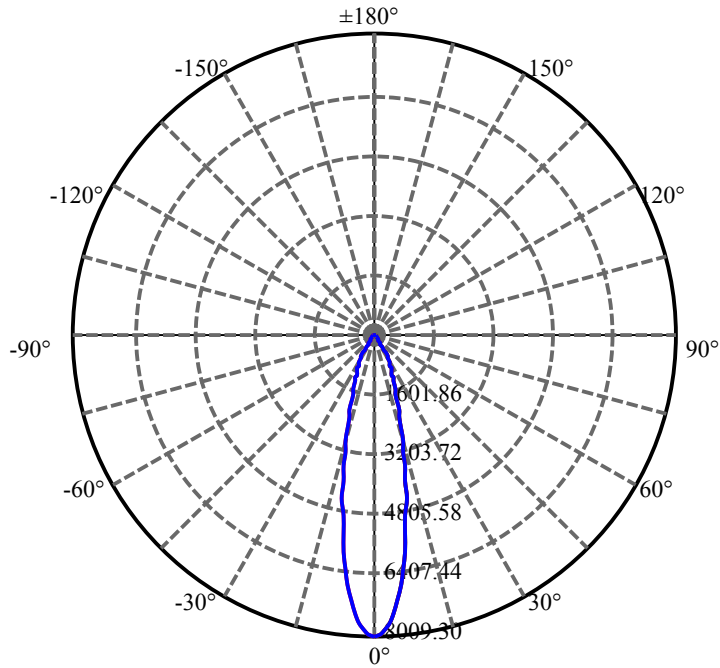
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.153	1.416	2227.55	0.05%	99.25%
77.0	12.860	1.387	2228.937	0.05%	99.31%
78.0	12.553	1.360	2230.298	0.05%	99.37%
79.0	12.187	1.329	2231.627	0.05%	99.43%
80.0	11.858	1.296	2232.923	0.05%	99.48%
81.0	11.573	1.267	2234.19	0.05%	99.54%
82.0	11.280	1.239	2235.43	0.05%	99.60%
83.0	10.995	1.211	2236.64	0.05%	99.65%
84.0	10.761	1.185	2237.826	0.05%	99.70%
85.0	10.527	1.162	2238.988	0.04%	99.75%
86.0	10.315	1.139	2240.127	0.04%	99.81%
87.0	10.110	1.118	2241.245	0.04%	99.86%
88.0	9.898	1.096	2242.341	0.04%	99.90%
89.0	9.781	1.079	2243.419	0.04%	99.95%
90.0	9.707	1.068	2244.488	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1918.60	73.43%	85.48%
0-40	2123.76	81.28%	94.62%
0-60	2197.68	84.11%	97.91%
0-90	2243.42	85.86%	99.95%
0-120	2243.42	85.86%	99.95%
0-180	2244.49	85.90%	100.00%
60-90	45.74	1.75%	2.04%
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%
0-27.23	1795.59	68.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	602.24
10-20	806.61
20-30	509.76
30-40	205.15
40-50	40.07
50-60	33.85
60-70	20.90
70-80	14.34
80-90	10.50
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: —————

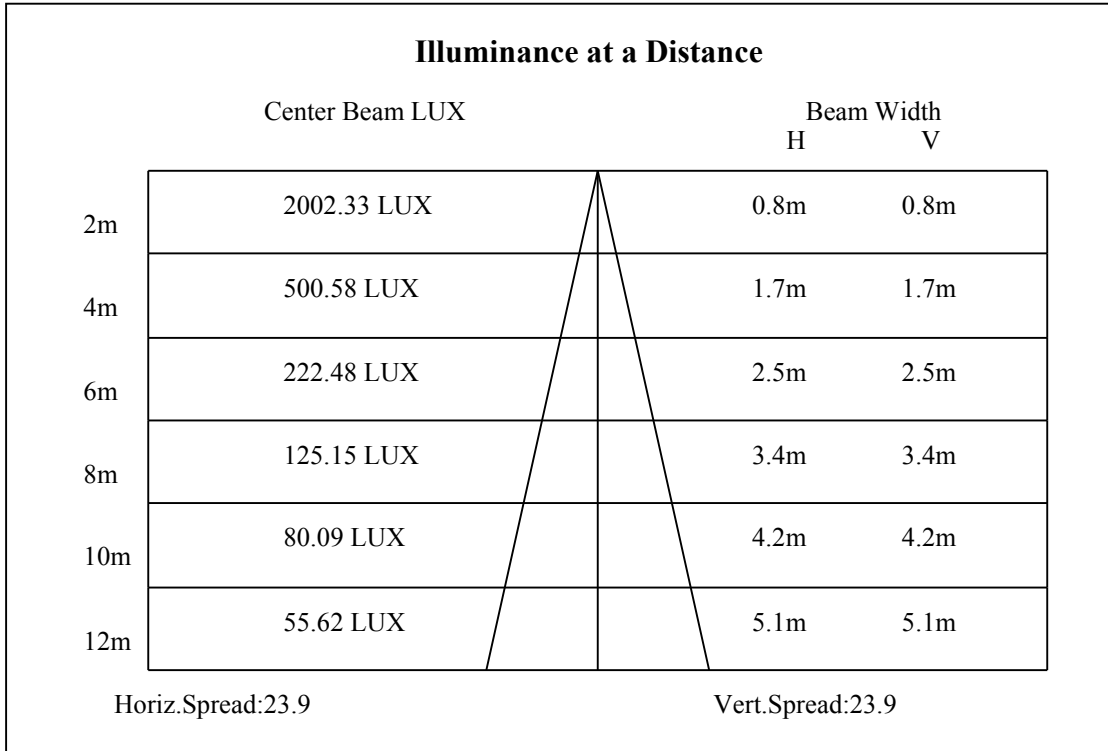
C90/C270: —————

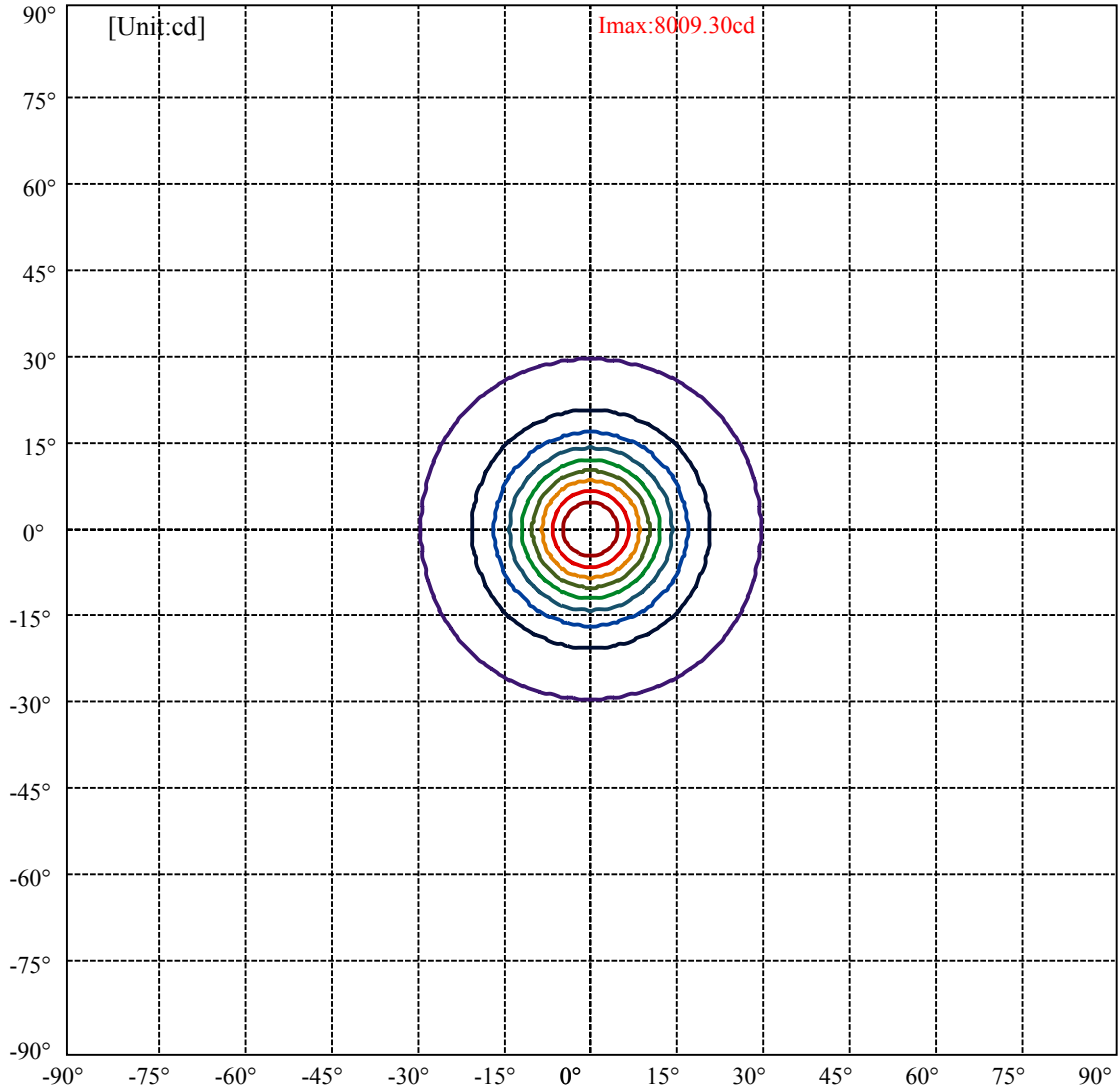
Field angle(10%Imax):C0/180Left:29.2 Right:29.2

:C90/270Left:29.2 Right:29.2

Beam Angle(50%Imax):C0/180Left:11.9 Right:11.9

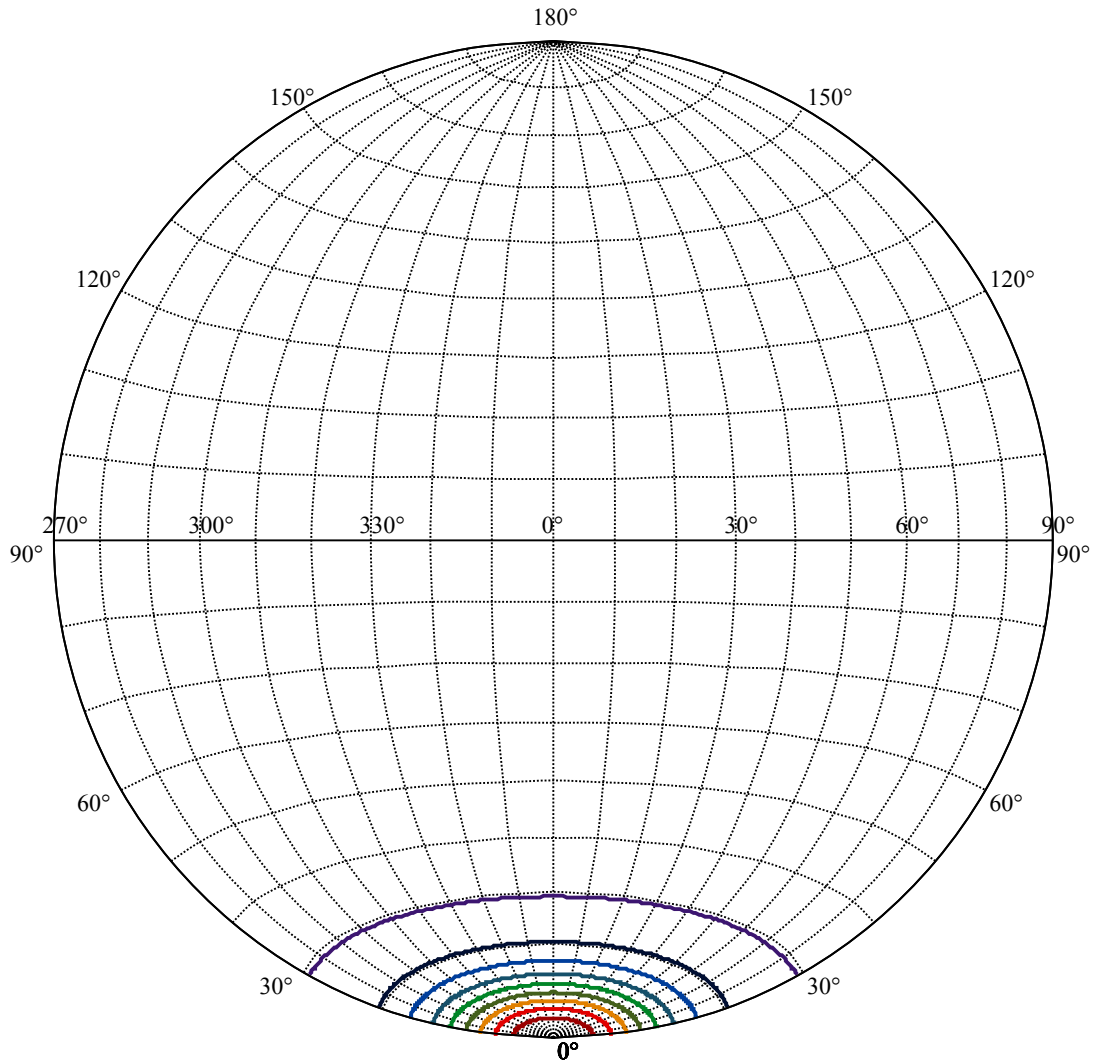
:C90/270Left:11.9 Right:11.9





(10%Imax) 800.93	—
(20%Imax) 1601.86	—
(30%Imax) 2402.79	—
(40%Imax) 3203.72	—
(50%Imax) 4004.65	—
(60%Imax) 4805.58	—
(70%Imax) 5606.51	—
(80%Imax) 6407.44	—
(90%Imax) 7208.37	—





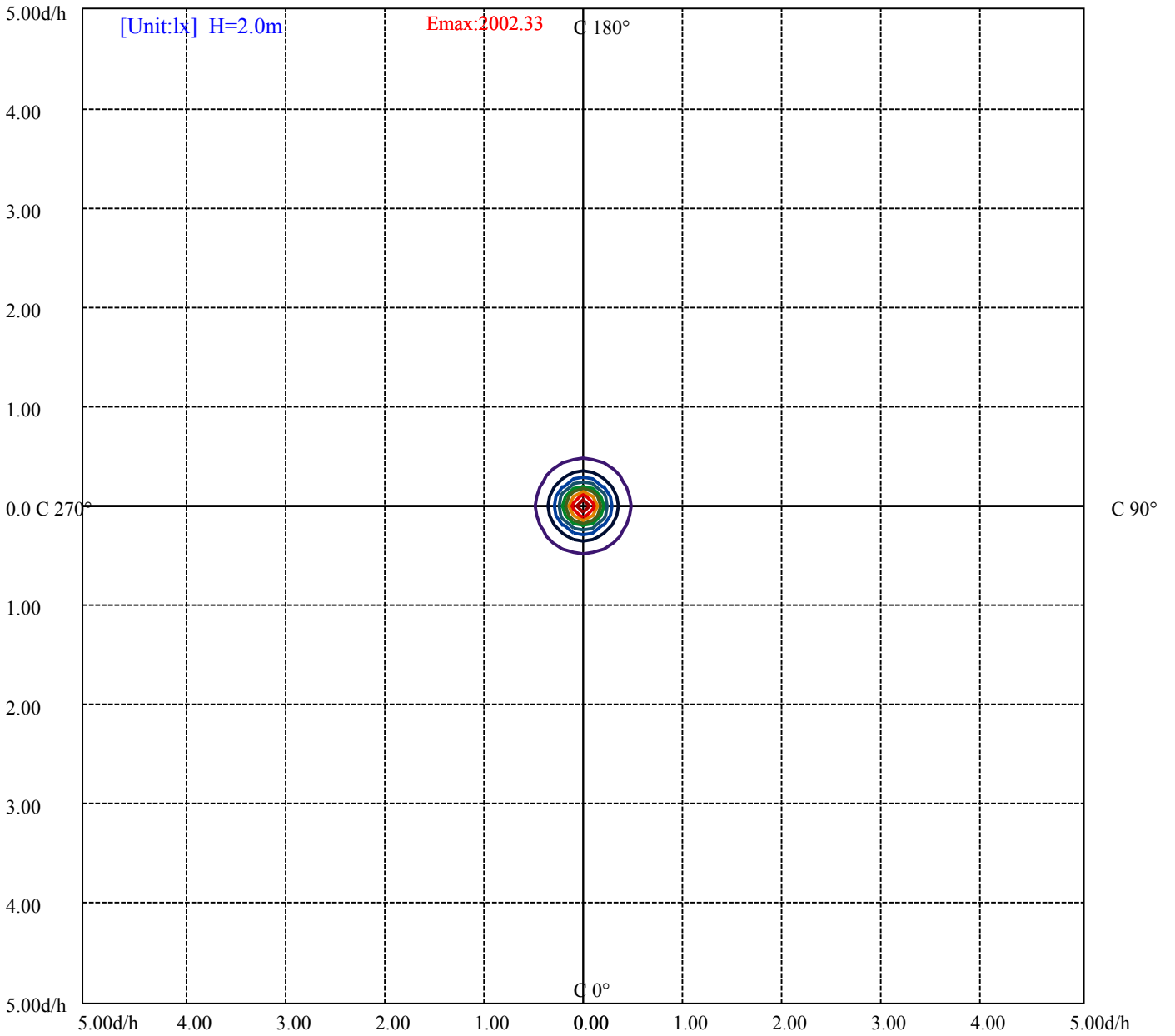
House

[Unit:cd]

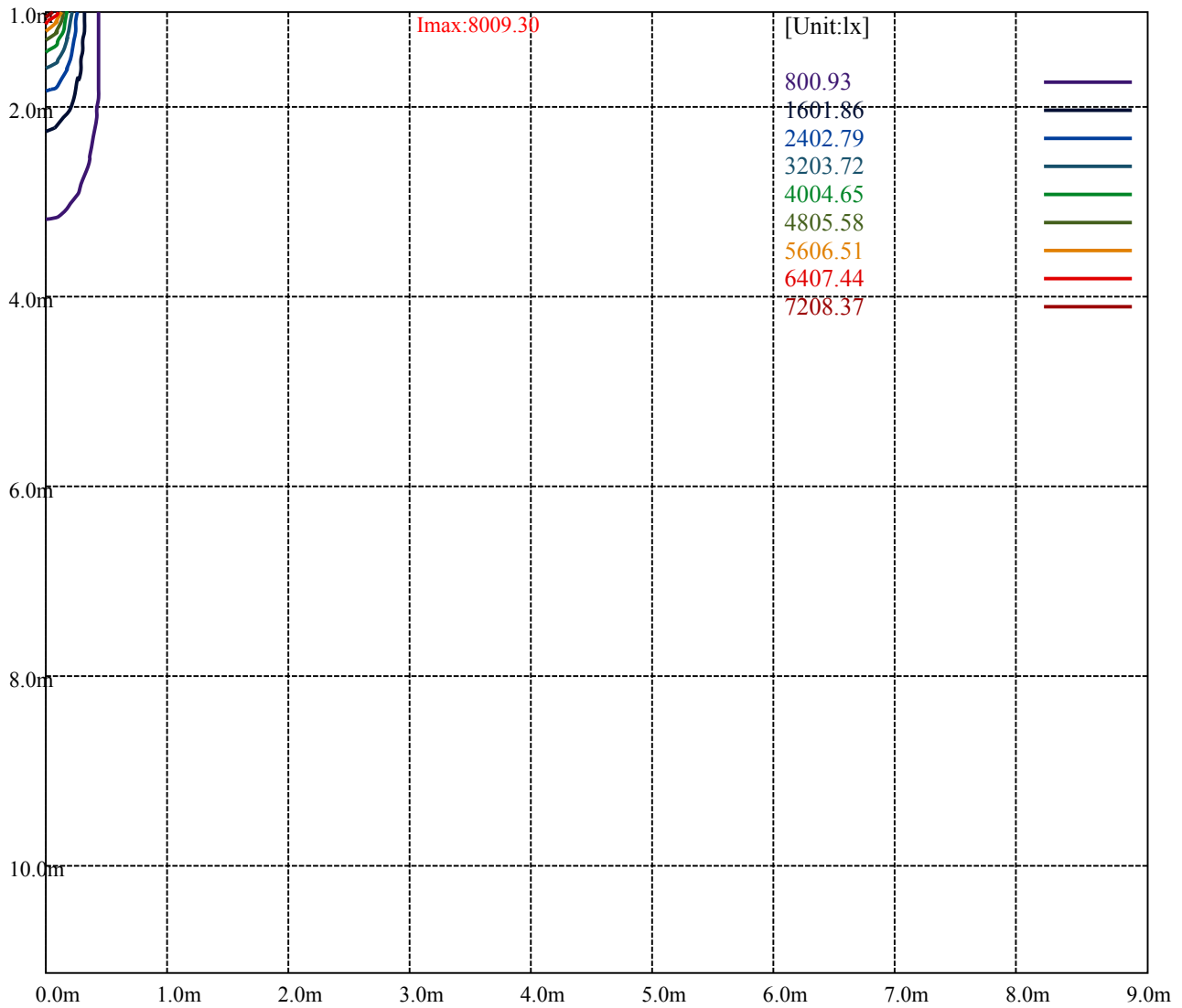
Road

**I<sub>max</sub>:8009.30**

(10%I <sub>max</sub> ) 800.93	—
(20%I <sub>max</sub> ) 1601.86	—
(30%I <sub>max</sub> ) 2402.79	—
(40%I <sub>max</sub> ) 3203.72	—
(50%I <sub>max</sub> ) 4004.65	—
(60%I <sub>max</sub> ) 4805.58	—
(70%I <sub>max</sub> ) 5606.51	—
(80%I <sub>max</sub> ) 6407.44	—
(90%I <sub>max</sub> ) 7208.37	—



- (10%Emax) 200.2325
- (20%Emax) 400.465
- (30%Emax) 600.6975
- (40%Emax) 800.93
- (50%Emax) 1001.162
- (60%Emax) 1201.395
- (70%Emax) 1401.627
- (80%Emax) 1601.86
- (90%Emax) 1802.093



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

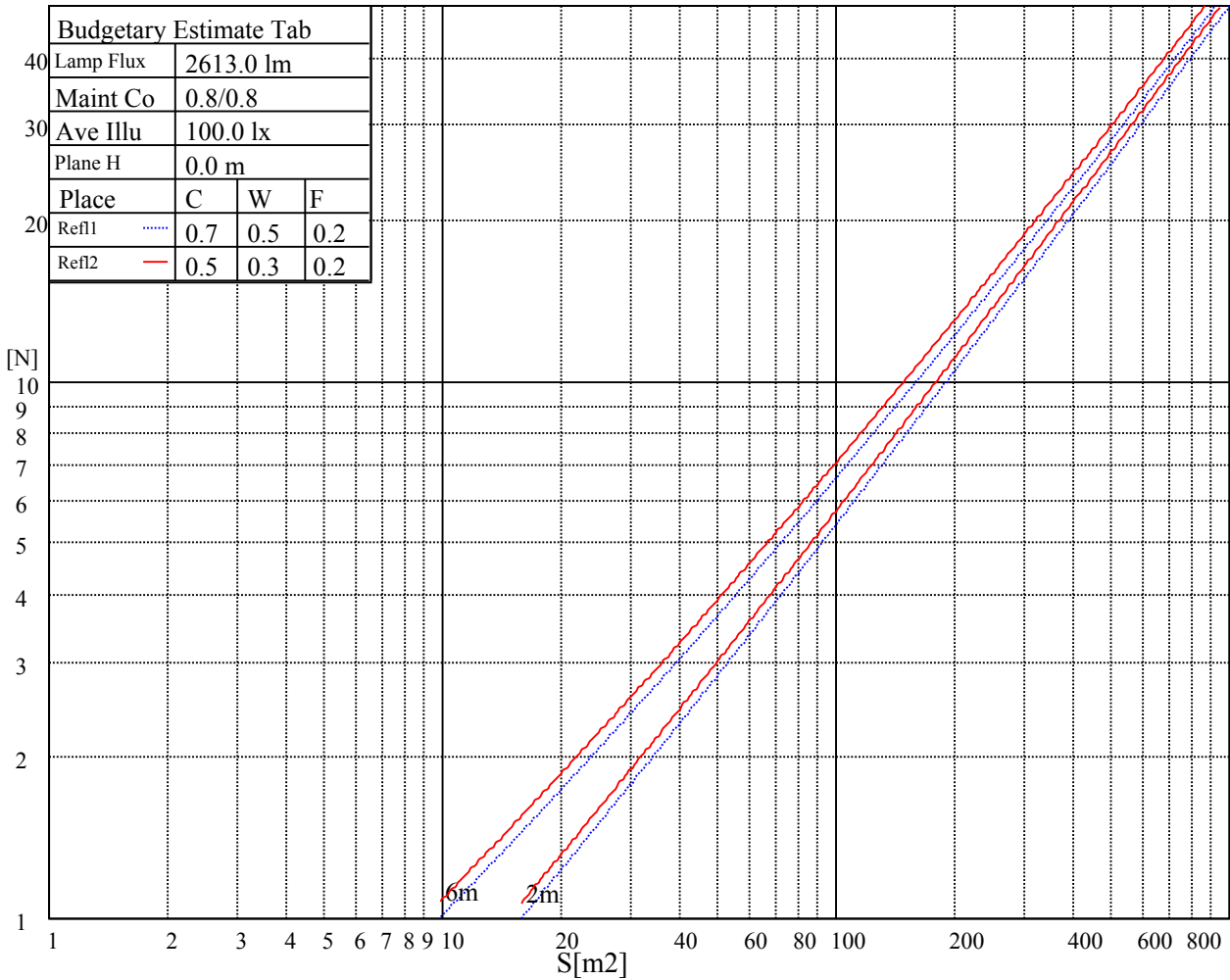
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

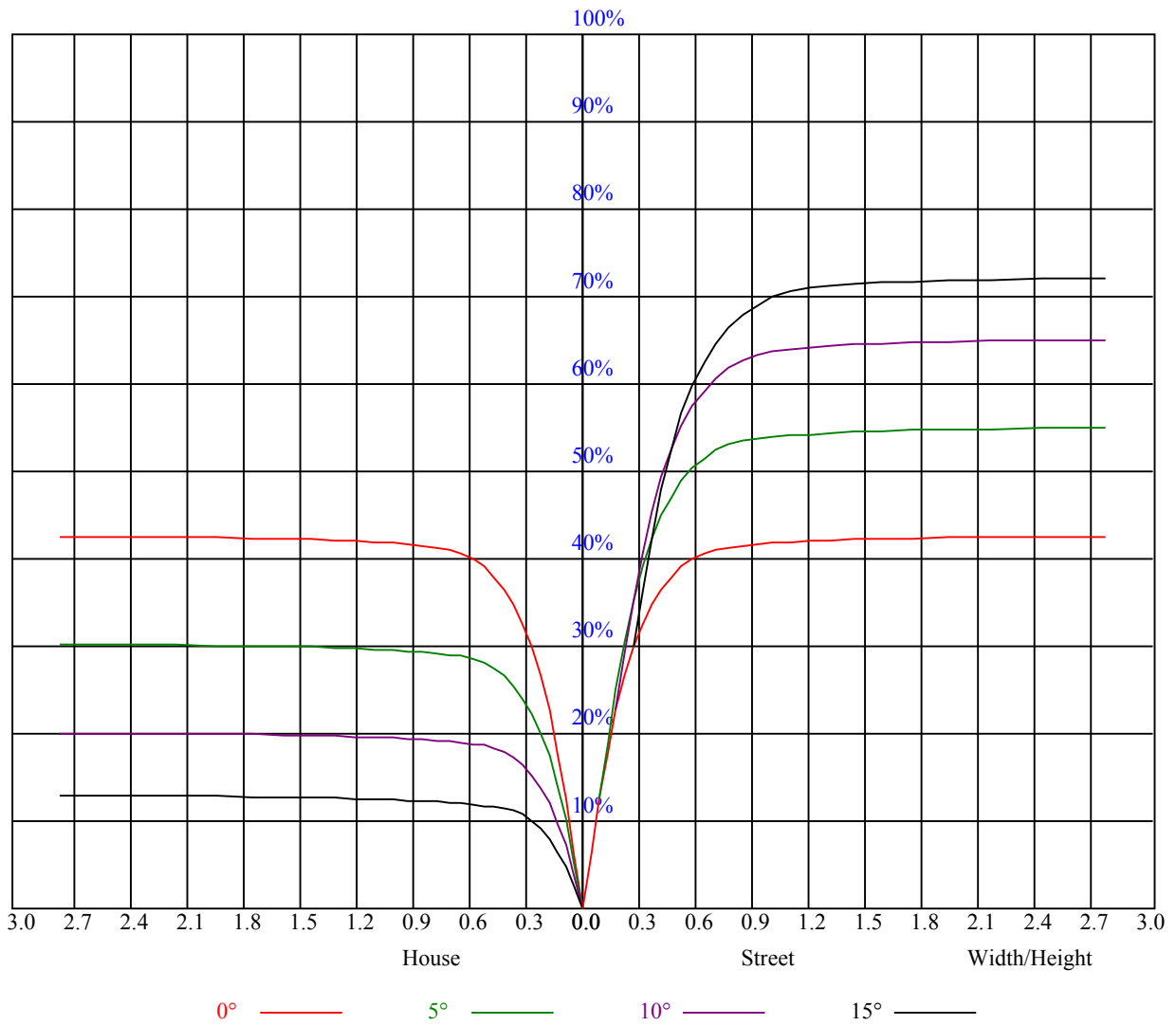


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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

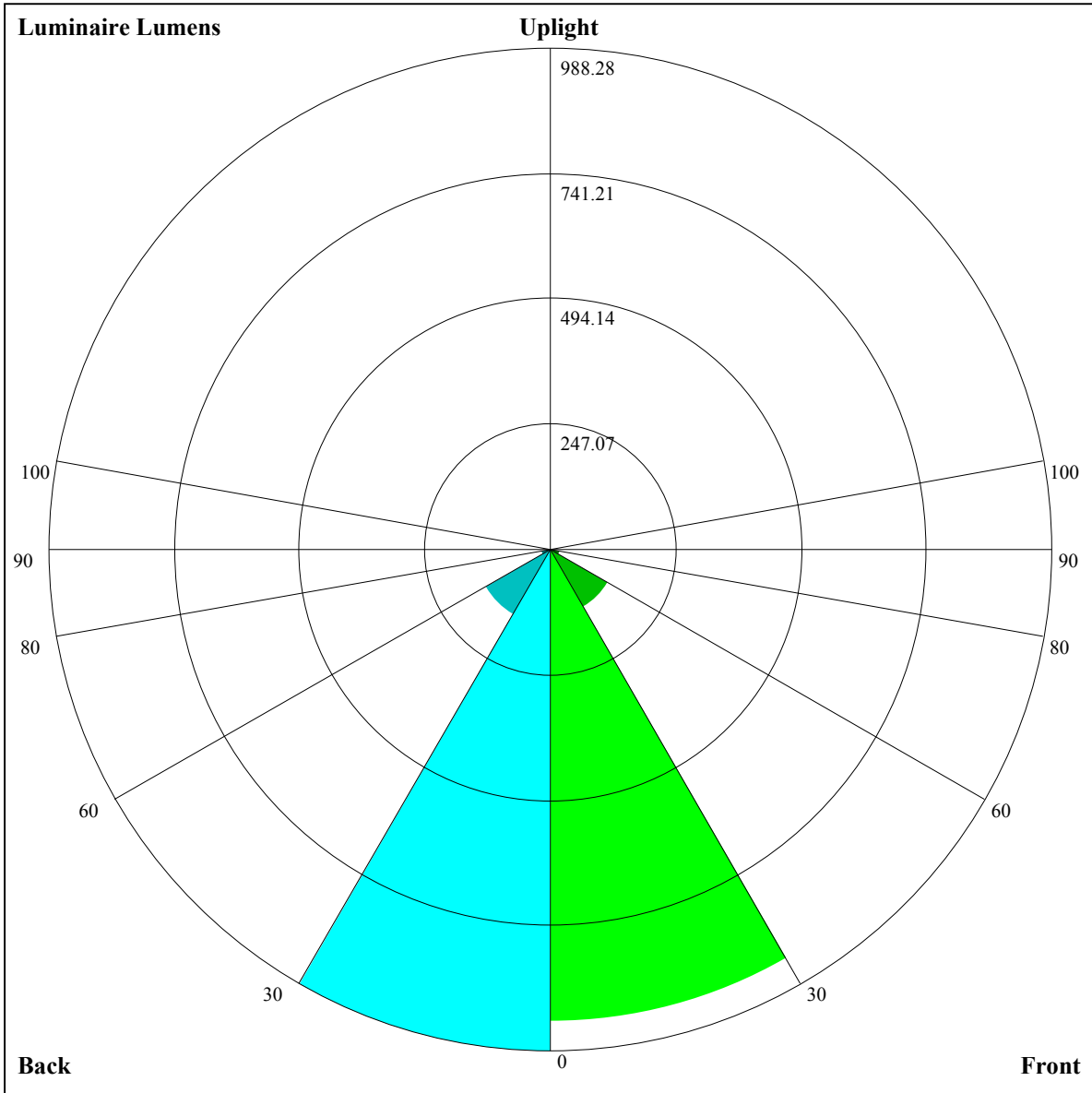
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.55







Luminaire Lumens:

FL=929.48,FM=131.18,FH=17.54,FVH=5.77

BL=988.28,BM=149.34,BH=17.85,BVH=5.82

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	7924.01	7776.53	7561.75	7207.69	6872.36	6489.62	5963.50	5519.90	5080.40
45.0	8036.37	7999.50	7901.77	7747.27	7446.46	7146.24	6797.45	6296.49	5862.84
90.0	8031.69	7931.61	7771.85	7536.00	7238.71	6803.30	6403.59	5974.04	5528.09
135.0	8045.15	8021.74	7940.39	7787.06	7485.67	7173.75	6819.10	6431.68	5896.20
180.0	7924.01	8018.81	8014.13	7946.24	7808.72	7541.27	7267.38	6937.32	6547.56
225.0	8036.37	7986.62	7888.89	7709.23	7453.48	7068.41	6698.54	6284.20	5724.14
270.0	8031.69	8051.00	7988.96	7872.51	7682.89	7346.39	7026.27	6656.99	6129.71
315.0	8045.15	7984.28	7864.31	7617.35	7340.54	7025.10	6558.68	6126.19	5683.18
360.0	7924.01	7776.53	7561.75	7207.69	6872.36	6489.62	5963.50	5519.90	5080.40

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4550.77	4147.55	3770.08	3413.68	3009.29	2722.53	2458.59	2215.14	1953.54
45.0	5412.22	4860.94	4433.14	3933.94	3562.91	3222.89	2911.55	2563.93	2314.62
90.0	5077.47	4532.63	4115.95	3641.33	3294.88	2976.51	2617.77	2364.95	2136.71
135.0	5453.77	5013.68	4478.79	4072.64	3693.41	3260.35	2945.50	2589.68	2340.37
180.0	6008.56	5564.96	5128.39	4581.20	4172.13	3699.85	3356.91	3044.40	2750.62
225.0	5277.62	4725.75	4307.31	3914.04	3552.96	3139.79	2835.47	2562.17	2315.21
270.0	5683.76	5238.99	4810.61	4375.79	3873.08	3493.27	3147.98	2773.44	2508.33
315.0	5235.48	4691.81	4269.86	3881.27	3511.99	3097.07	2803.29	2536.42	2237.96
360.0	4550.77	4147.55	3770.08	3413.68	3009.29	2722.53	2458.59	2215.14	1953.54

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1770.95	1571.39	1437.37	1150.44	1150.44	1110.70	1042.46	971.88	916.75
45.0	2095.16	1897.94	1679.07	1529.84	1405.18	1271.17	1180.46	1100.28	1019.52
90.0	1887.99	1709.50	1555.59	1425.67	1165.36	1165.36	1106.19	1040.30	969.83
135.0	2116.82	1915.50	1694.87	1546.22	1420.98	1313.89	1195.09	1116.08	1048.78
180.0	2422.30	2181.78	1975.19	1794.36	1585.43	1449.08	1341.98	1222.01	1142.42
225.0	2039.57	1844.10	1673.80	1527.50	1378.26	1166.41	1166.41	1092.79	1029.76
270.0	2204.60	1986.31	1803.72	1602.40	1457.27	1336.71	1237.81	1129.54	1062.83
315.0	2023.77	1829.47	1621.72	1478.92	1158.57	1158.57	1137.33	1063.47	1002.31
360.0	1770.95	1571.39	1437.37	1150.44	1150.44	1110.70	1042.46	971.88	916.75

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	850.86	778.82	679.33	595.35	507.62	420.13	318.60	245.97	182.71
45.0	961.00	902.48	813.52	732.76	650.24	567.14	460.63	377.53	300.86
90.0	913.42	847.70	771.74	672.01	589.03	483.69	402.58	325.62	240.53
135.0	991.43	922.37	858.00	761.44	678.33	592.89	485.80	402.11	324.27
180.0	1075.12	1000.79	945.78	886.09	795.96	715.20	628.59	518.57	429.03
225.0	971.71	899.37	830.26	729.07	643.75	556.49	471.05	368.17	294.37
270.0	1004.30	950.46	872.04	795.38	712.28	608.11	523.25	439.56	342.42
315.0	931.27	868.88	793.45	711.81	606.70	523.02	438.98	341.95	269.73
360.0	850.86	778.82	679.33	595.35	507.62	420.13	318.60	245.97	182.71

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	132.67	92.11	76.08	67.77	62.68	58.76	53.96	51.85	49.80
45.0	300.86	151.28	106.92	80.82	67.77	63.15	59.11	55.19	52.14
90.0	182.18	131.32	87.20	71.63	65.66	61.10	57.29	52.55	50.68
135.0	306.72	220.81	119.33	86.09	69.99	63.50	59.58	56.18	52.67
180.0	344.17	306.72	306.72	130.56	94.16	67.89	61.16	57.53	53.96
225.0	228.24	170.42	111.19	81.00	66.66	61.45	56.53	53.14	50.33
270.0	306.72	306.72	138.35	98.03	75.67	66.83	61.21	57.47	54.19
315.0	204.59	137.47	98.32	73.86	66.36	61.62	57.64	53.26	51.09
360.0	132.67	92.11	76.08	67.77	62.68	58.76	53.96	51.85	49.80

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	47.87	46.35	45.53	44.48	43.37	42.55	41.67	40.61	39.44
45.0	50.39	48.69	47.34	46.41	45.53	44.07	43.72	42.90	41.79
90.0	48.69	46.70	45.82	44.89	43.54	42.55	41.73	40.61	39.91
135.0	50.50	48.98	47.64	46.47	45.59	44.18	43.66	42.60	41.55
180.0	50.39	49.04	47.58	46.12	45.41	44.71	43.42	42.78	42.02
225.0	48.75	47.46	45.82	45.06	44.18	43.25	42.49	41.49	40.44
270.0	52.32	50.10	48.52	47.58	46.94	45.59	44.48	43.48	42.66
315.0	49.33	47.75	46.35	45.47	44.48	43.42	43.25	42.08	40.73
360.0	47.87	46.35	45.53	44.48	43.37	42.55	41.67	40.61	39.44
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.10	36.58	34.76	32.71	30.90	28.27	26.10	24.76	23.23
45.0	40.50	39.44	37.98	36.17	34.41	31.84	29.79	27.56	25.46
90.0	38.68	36.99	35.52	33.77	31.84	29.50	27.33	25.40	24.17
135.0	40.32	39.27	37.69	36.28	33.94	32.01	29.90	26.86	25.34
180.0	41.20	39.91	38.74	37.45	36.23	33.88	32.01	29.85	27.27
225.0	39.39	37.86	36.64	34.94	32.66	30.67	28.03	25.81	24.52
270.0	41.67	40.26	38.80	37.40	35.29	33.12	31.43	29.03	26.69
315.0	39.62	38.68	36.93	35.35	33.30	31.43	28.91	26.63	25.11
360.0	38.10	36.58	34.76	32.71	30.90	28.27	26.10	24.76	23.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.54	20.37	19.14	17.97	16.97	16.15	15.33	14.92	14.46
45.0	23.94	22.41	21.36	19.78	18.49	17.44	16.68	15.80	15.27
90.0	22.30	20.95	19.61	18.26	17.26	16.27	15.63	15.10	14.63
135.0	24.05	21.95	20.83	19.25	17.97	17.03	16.21	15.45	14.98
180.0	25.52	23.76	21.95	20.83	19.72	18.02	17.21	16.39	15.63
225.0	23.00	21.01	19.96	18.73	17.62	16.62	15.86	15.27	14.69
270.0	25.05	23.17	21.71	20.54	18.96	17.85	16.97	16.21	15.51
315.0	23.53	21.54	20.48	19.31	17.79	17.03	16.27	15.45	15.10
360.0	21.54	20.37	19.14	17.97	16.97	16.15	15.33	14.92	14.46
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.99	13.69	13.40	12.99	12.64	12.35	12.06	11.70	11.41
45.0	14.81	14.40	13.99	13.69	13.17	12.99	12.64	12.29	11.88
90.0	14.28	13.93	13.64	13.34	12.93	12.64	12.35	11.94	11.65
135.0	14.57	14.28	13.93	13.58	13.23	12.93	12.64	12.29	11.88
180.0	15.10	14.63	14.28	13.87	13.52	13.23	12.87	12.52	12.29
225.0	14.34	14.05	13.64	13.28	12.99	12.64	12.41	12.06	11.70
270.0	15.10	14.69	14.34	13.87	13.58	13.23	12.93	12.52	12.23
315.0	14.51	14.16	13.87	13.52	13.17	12.87	12.52	12.17	11.82
360.0	13.99	13.69	13.40	12.99	12.64	12.35	12.06	11.70	11.41
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.18	10.83	10.65	10.42	10.24	10.01	9.83	9.66	9.89
45.0	11.59	11.35	11.00	10.77	10.53	10.36	10.18	9.89	9.71
90.0	11.35	11.12	10.83	10.65	10.42	10.18	10.01	9.95	9.66
135.0	11.65	11.35	11.00	10.77	10.53	10.36	10.18	9.95	9.77
180.0	11.94	11.59	11.24	11.00	10.71	10.53	10.30	10.01	9.83
225.0	11.41	11.12	11.00	10.71	10.53	10.24	10.01	9.89	9.66
270.0	11.94	11.59	11.24	11.00	10.71	10.53	10.24	9.95	10.07
315.0	11.53	11.29	11.00	10.77	10.53	10.30	10.12	9.89	9.66
360.0	11.18	10.83	10.65	10.42	10.24	10.01	9.83	9.66	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.71
45.0	9.77
90.0	9.77
135.0	9.71
180.0	9.71
225.0	9.66
270.0	9.60
315.0	9.71
360.0	9.71