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NT

Client:

LumCAT: 2-2678-L

Luminaire: 92.70.412.00

Report No: 2024228-B017

Ballast type: AC

Test No: 2024228-C017

Voltage(V): 35.360

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2613.0

Power (W): 19.129

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2221.60, Efficiency(%): 85.02% , Luminous Efficacy(lm/W): 116.14

Central intensity(cd): 9894.896, Maximum intensity(cd): 9894.896

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=20.0

[C90/270]Total=20.0

Field angle(10%Imax): [C0/180]Total=52.2

[C90/270]Total=52.2

Maximum s/h(1/2): C0_180=0.34 C90_270=0.34

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.02%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.827%

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	9894.897	0.000	0	0.00%	0.00%
1.0	9845.006	9.445	9.445	0.36%	0.43%
2.0	9652.760	27.985	37.43	1.07%	1.68%
3.0	9345.736	45.438	82.868	1.74%	3.73%
4.0	8880.702	61.010	143.878	2.33%	6.48%
5.0	8366.581	74.197	218.075	2.84%	9.82%
6.0	7726.784	84.575	302.65	3.24%	13.62%
7.0	7051.947	91.731	394.381	3.51%	17.75%
8.0	6305.200	95.595	489.976	3.66%	22.06%
9.0	5608.197	96.552	586.527	3.70%	26.40%
10.0	4953.988	95.584	682.111	3.66%	30.70%
11.0	4351.938	92.985	775.097	3.56%	34.89%
12.0	3800.144	89.114	864.211	3.41%	38.90%
13.0	3348.570	84.837	949.048	3.25%	42.72%
14.0	2952.299	80.651	1029.698	3.09%	46.35%
15.0	2636.936	76.732	1106.43	2.94%	49.80%
16.0	2348.201	73.046	1179.476	2.80%	53.09%
17.0	2124.498	69.652	1249.128	2.67%	56.23%
18.0	1916.378	66.625	1315.753	2.55%	59.23%
19.0	1742.639	63.659	1379.413	2.44%	62.09%
20.0	1578.849	60.792	1440.205	2.33%	64.83%
21.0	1431.256	57.800	1498.005	2.21%	67.43%
22.0	1330.377	55.496	1553.501	2.12%	69.93%
23.0	1214.517	53.399	1606.9	2.04%	72.33%
24.0	1144.422	51.575	1658.475	1.97%	74.65%
25.0	1076.390	50.496	1708.971	1.93%	76.93%
26.0	1000.318	49.021	1757.992	1.88%	79.13%
27.0	923.887	47.076	1805.069	1.80%	81.25%
28.0	845.145	44.788	1849.857	1.71%	83.27%
29.0	761.458	42.033	1891.89	1.61%	85.16%
30.0	673.053	38.731	1930.621	1.48%	86.90%
31.0	584.442	34.994	1965.616	1.34%	88.48%
32.0	497.624	31.000	1996.616	1.19%	89.87%
33.0	412.532	26.814	2023.429	1.03%	91.08%
34.0	340.389	22.786	2046.215	0.87%	92.11%
35.0	278.728	19.227	2065.442	0.74%	92.97%
36.0	212.598	15.644	2081.086	0.60%	93.68%
37.0	160.842	12.179	2093.266	0.47%	94.22%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	110.703	9.064	2102.329	0.35%	94.63%
39.0	79.100	6.479	2108.808	0.25%	94.92%
40.0	63.424	4.971	2113.779	0.19%	95.15%
41.0	54.280	4.191	2117.97	0.16%	95.34%
42.0	50.007	3.789	2121.759	0.15%	95.51%
43.0	46.481	3.574	2125.333	0.14%	95.67%
44.0	43.607	3.400	2128.733	0.13%	95.82%
45.0	41.171	3.258	2131.992	0.12%	95.97%
46.0	39.027	3.136	2135.128	0.12%	96.11%
47.0	37.052	3.026	2138.154	0.12%	96.24%
48.0	35.384	2.928	2141.082	0.11%	96.38%
49.0	33.885	2.845	2143.927	0.11%	96.50%
50.0	32.678	2.775	2146.702	0.11%	96.63%
51.0	31.609	2.720	2149.422	0.10%	96.75%
52.0	30.849	2.680	2152.102	0.10%	96.87%
53.0	30.285	2.659	2154.761	0.10%	96.99%
54.0	29.795	2.648	2157.409	0.10%	97.11%
55.0	29.503	2.647	2160.056	0.10%	97.23%
56.0	29.225	2.654	2162.71	0.10%	97.35%
57.0	28.991	2.662	2165.372	0.10%	97.47%
58.0	28.625	2.664	2168.036	0.10%	97.59%
59.0	28.201	2.657	2170.693	0.10%	97.71%
60.0	27.491	2.631	2173.324	0.10%	97.83%
61.0	26.584	2.581	2175.904	0.10%	97.94%
62.0	25.443	2.507	2178.411	0.10%	98.06%
63.0	23.972	2.403	2180.814	0.09%	98.16%
64.0	22.546	2.283	2183.097	0.09%	98.27%
65.0	20.944	2.152	2185.249	0.08%	98.36%
66.0	19.561	2.021	2187.27	0.08%	98.45%
67.0	18.383	1.908	2189.178	0.07%	98.54%
68.0	17.637	1.825	2191.003	0.07%	98.62%
69.0	17.147	1.775	2192.777	0.07%	98.70%
70.0	16.737	1.740	2194.518	0.07%	98.78%
71.0	16.313	1.708	2196.226	0.07%	98.86%
72.0	15.984	1.679	2197.905	0.06%	98.93%
73.0	15.552	1.649	2199.554	0.06%	99.01%
74.0	15.106	1.612	2201.166	0.06%	99.08%
75.0	14.704	1.575	2202.741	0.06%	99.15%

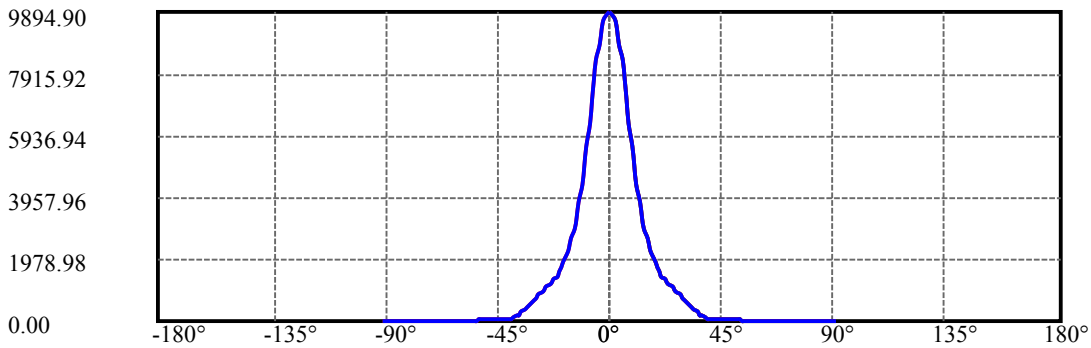
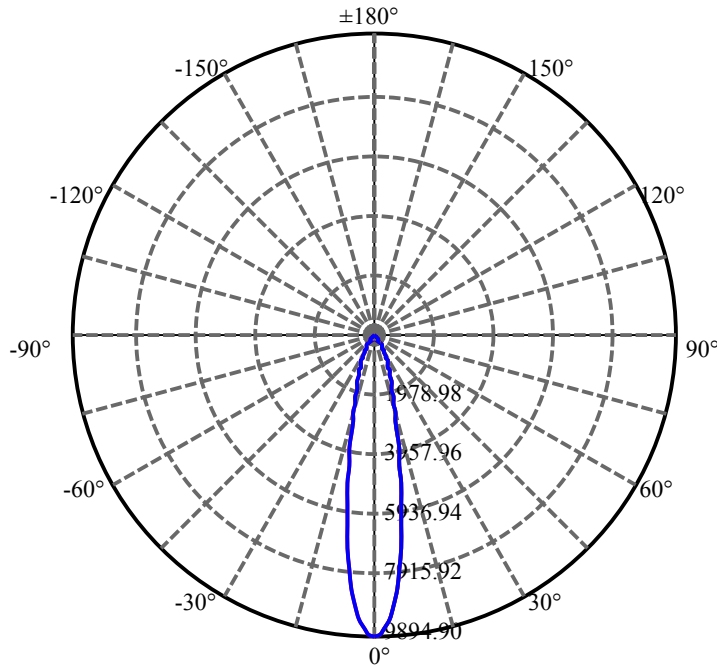
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.250	1.537	2204.278	0.06%	99.22%
77.0	13.797	1.495	2205.774	0.06%	99.29%
78.0	13.321	1.452	2207.225	0.06%	99.35%
79.0	12.831	1.405	2208.63	0.05%	99.42%
80.0	12.370	1.359	2209.989	0.05%	99.48%
81.0	11.902	1.313	2211.302	0.05%	99.54%
82.0	11.500	1.269	2212.571	0.05%	99.59%
83.0	11.127	1.230	2213.801	0.05%	99.65%
84.0	10.805	1.195	2214.995	0.05%	99.70%
85.0	10.497	1.163	2216.158	0.04%	99.76%
86.0	10.227	1.133	2217.291	0.04%	99.81%
87.0	9.963	1.105	2218.396	0.04%	99.86%
88.0	9.781	1.082	2219.477	0.04%	99.90%
89.0	9.656	1.065	2220.543	0.04%	99.95%
90.0	9.583	1.055	2221.598	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1930.62	73.89%	86.90%
0-40	2113.78	80.89%	95.15%
0-60	2173.32	83.17%	97.83%
0-90	2220.54	84.98%	99.95%
0-120	2220.54	84.98%	99.95%
0-180	2221.60	85.02%	100.00%
60-90	47.22	1.81%	2.13%
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%
0-26.41	1777.28	68.02%	80.00%

ZONAL LUMEN SUMMARY

0-10	682.11
10-20	758.09
20-30	490.42
30-40	183.16
40-50	32.92
50-60	26.62
60-70	21.19
70-80	15.47
80-90	10.55
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: —————

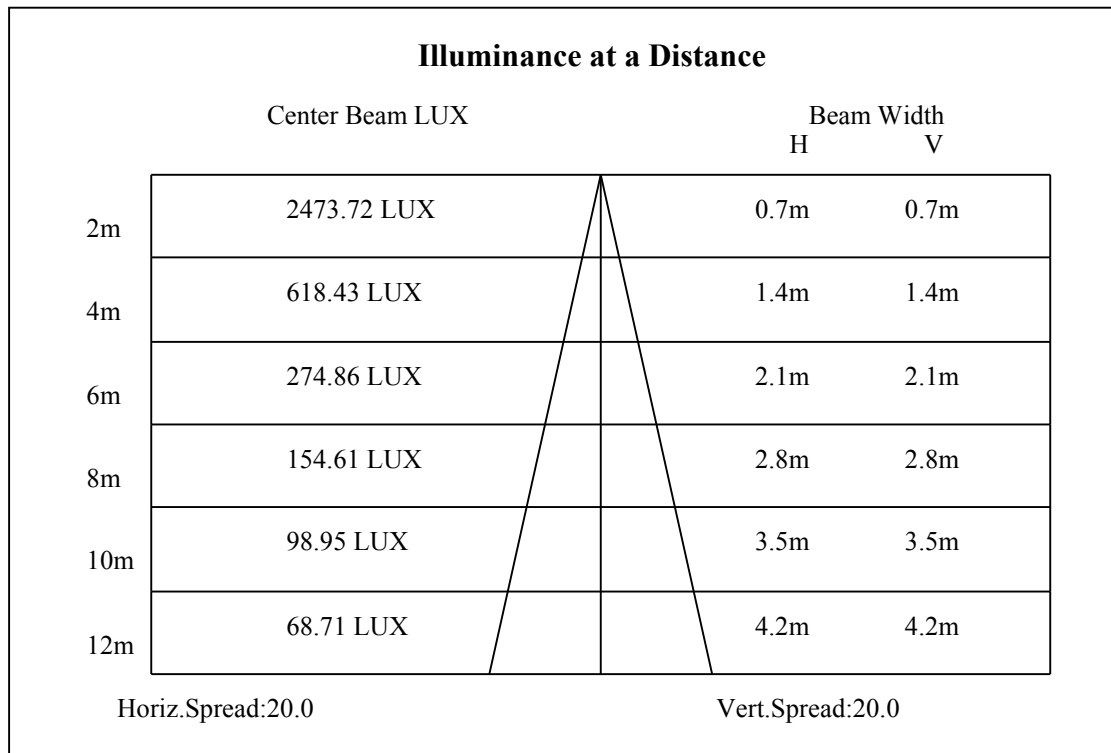
C90/C270: —————

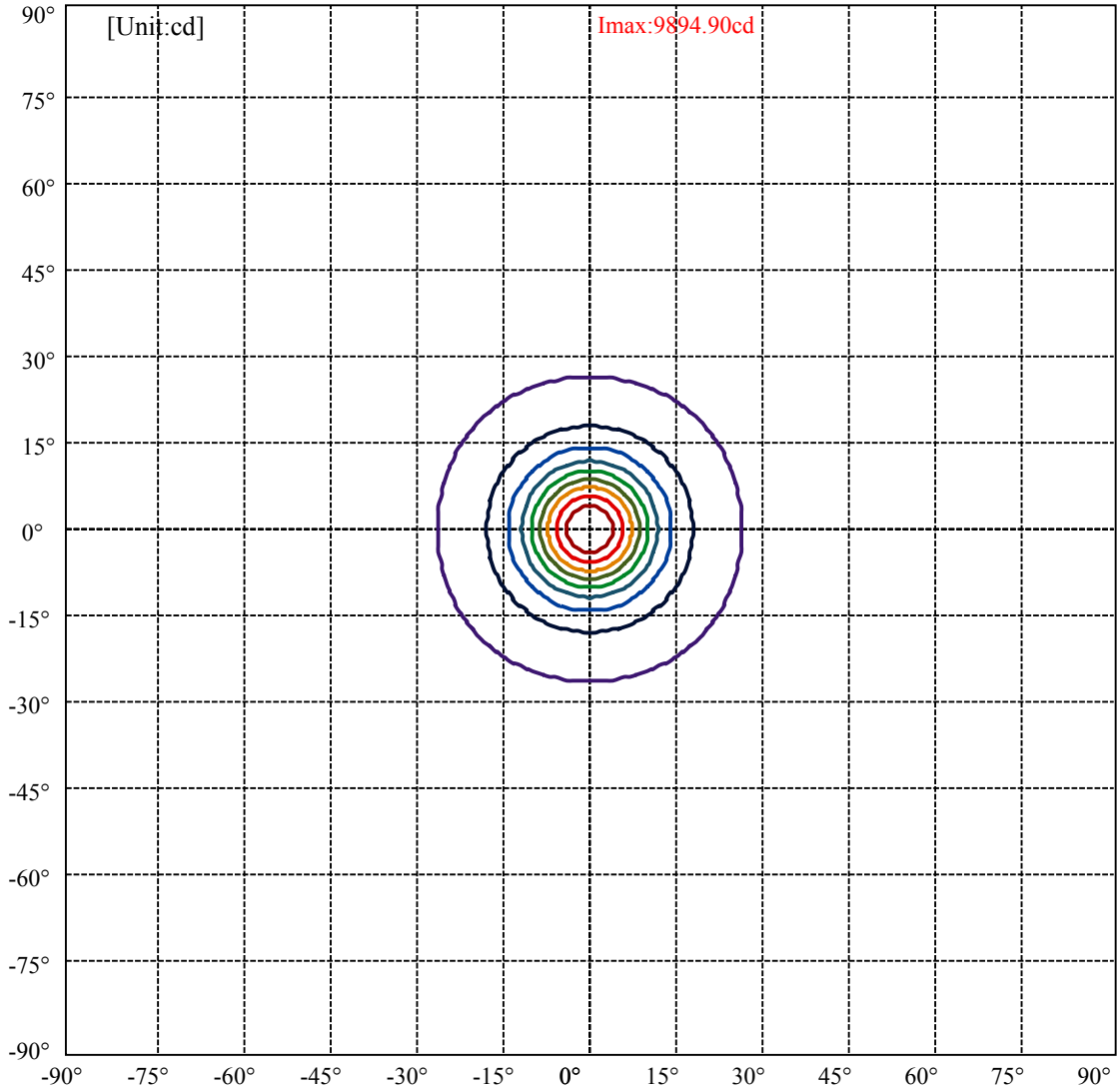
Field angle(10%Imax):C0/180Left:26.1 Right:26.1

:C90/270Left:26.1 Right:26.1

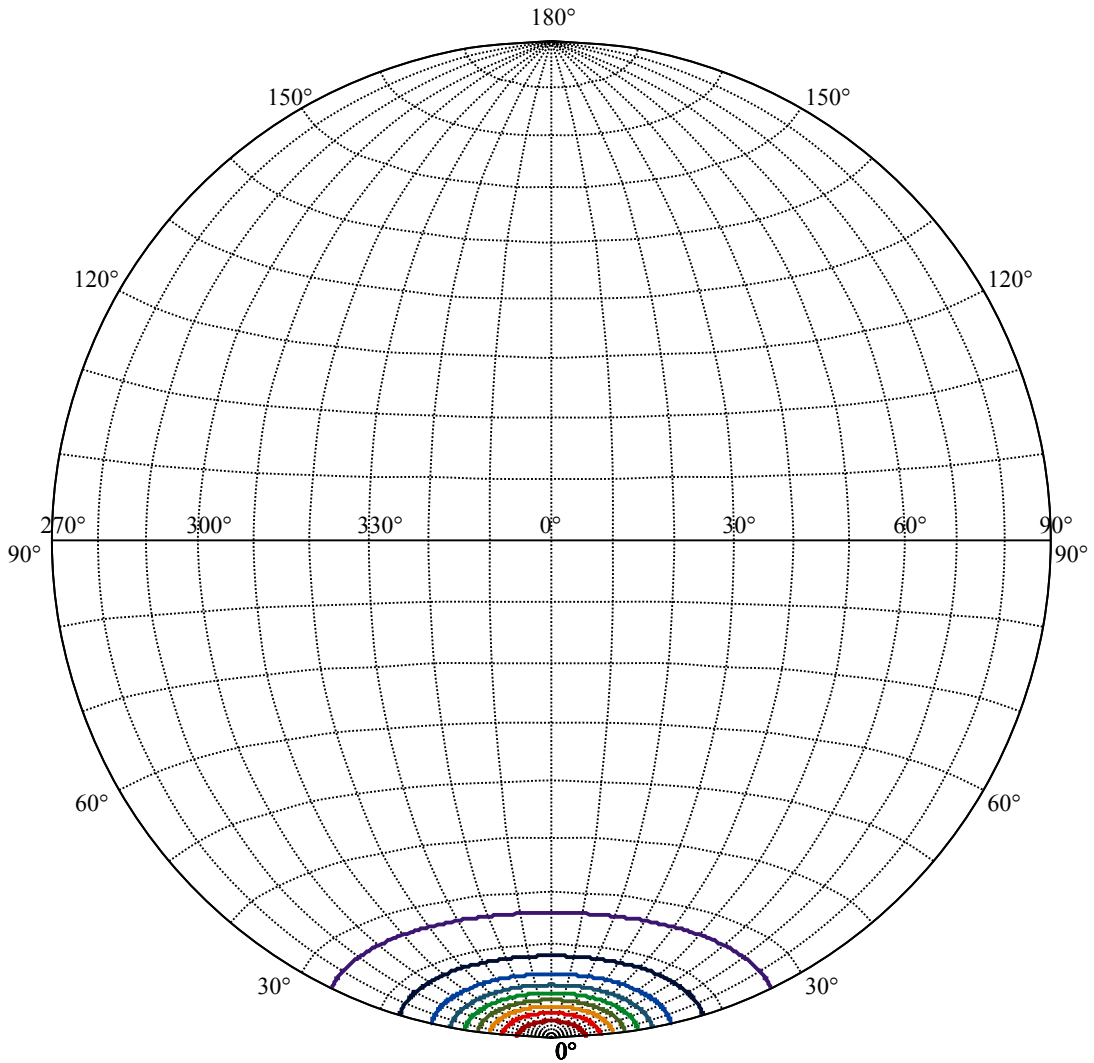
Beam Angle(50%Imax):C0/180Left:10.0 Right:10.0

:C90/270Left:10.0 Right:10.0





(10%Imax) 989.49	—
(20%Imax) 1978.98	—
(30%Imax) 2968.47	—
(40%Imax) 3957.96	—
(50%Imax) 4947.45	—
(60%Imax) 5936.94	—
(70%Imax) 6926.43	—
(80%Imax) 7915.92	—
(90%Imax) 8905.41	—



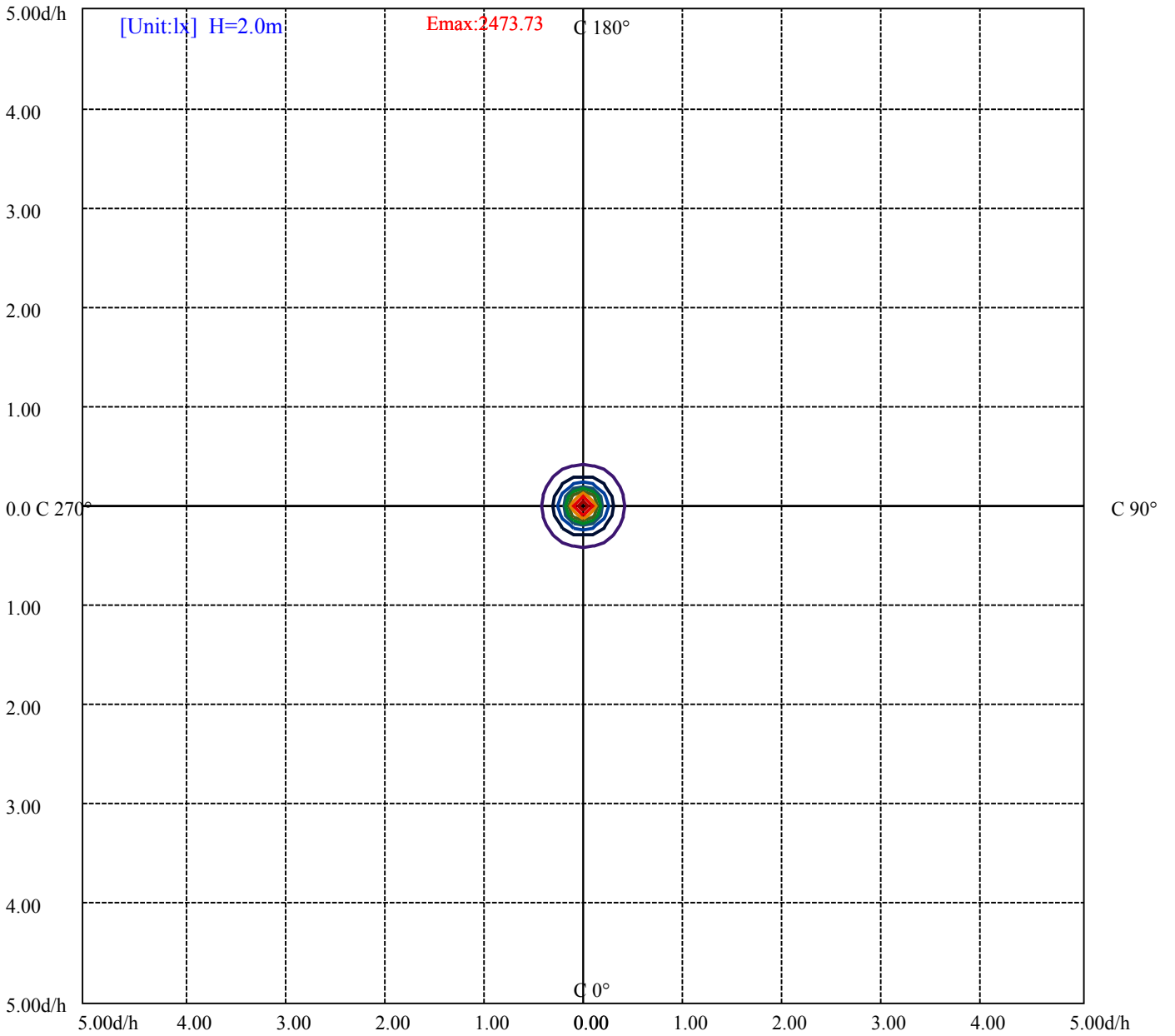
House

[Unit:cd]

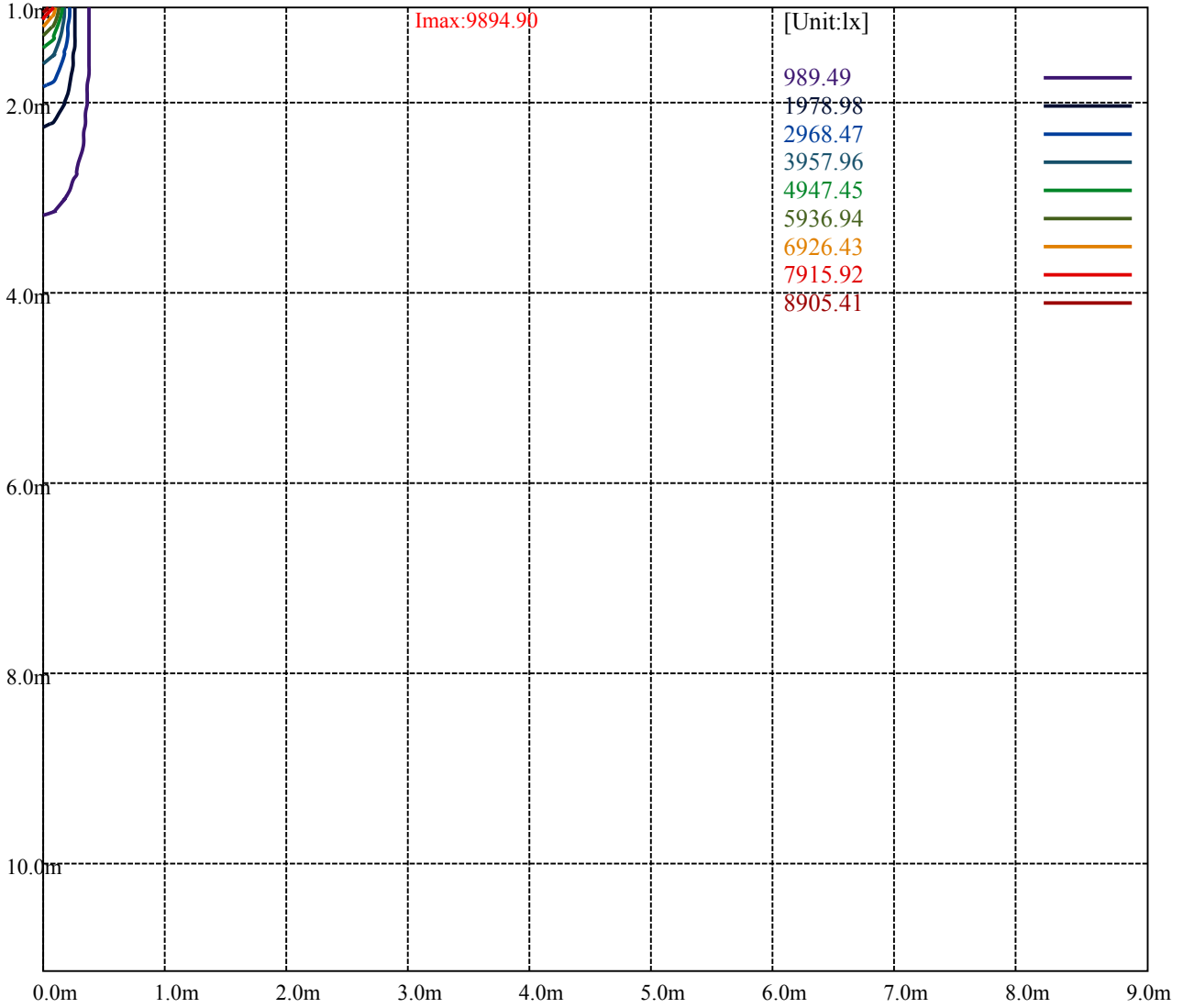
Road

Imax:9894.90

(10%Imax)	989.49	—
(20%Imax)	1978.98	—
(30%Imax)	2968.47	—
(40%Imax)	3957.96	—
(50%Imax)	4947.45	—
(60%Imax)	5936.94	—
(70%Imax)	6926.43	—
(80%Imax)	7915.92	—
(90%Imax)	8905.41	—



- (10%Emax) 247.3723
- (20%Emax) 494.745
- (30%Emax) 742.1175
- (40%Emax) 989.49
- (50%Emax) 1236.86
- (60%Emax) 1484.233
- (70%Emax) 1731.605
- (80%Emax) 1978.978
- (90%Emax) 2226.35



Luminance Table

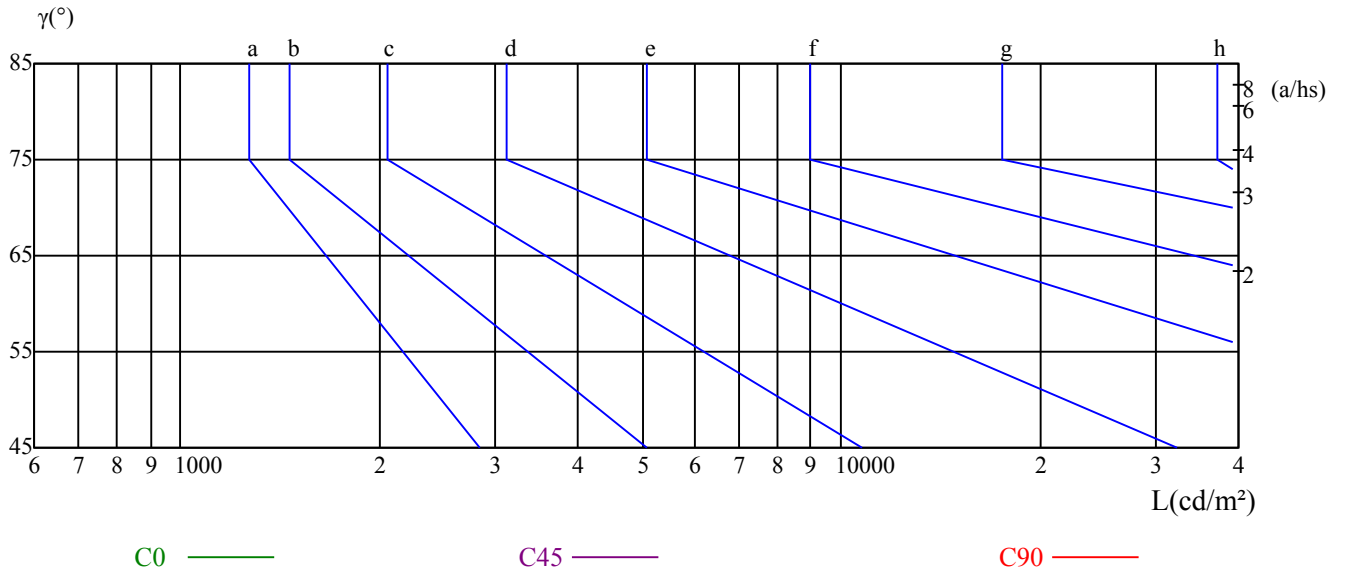
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

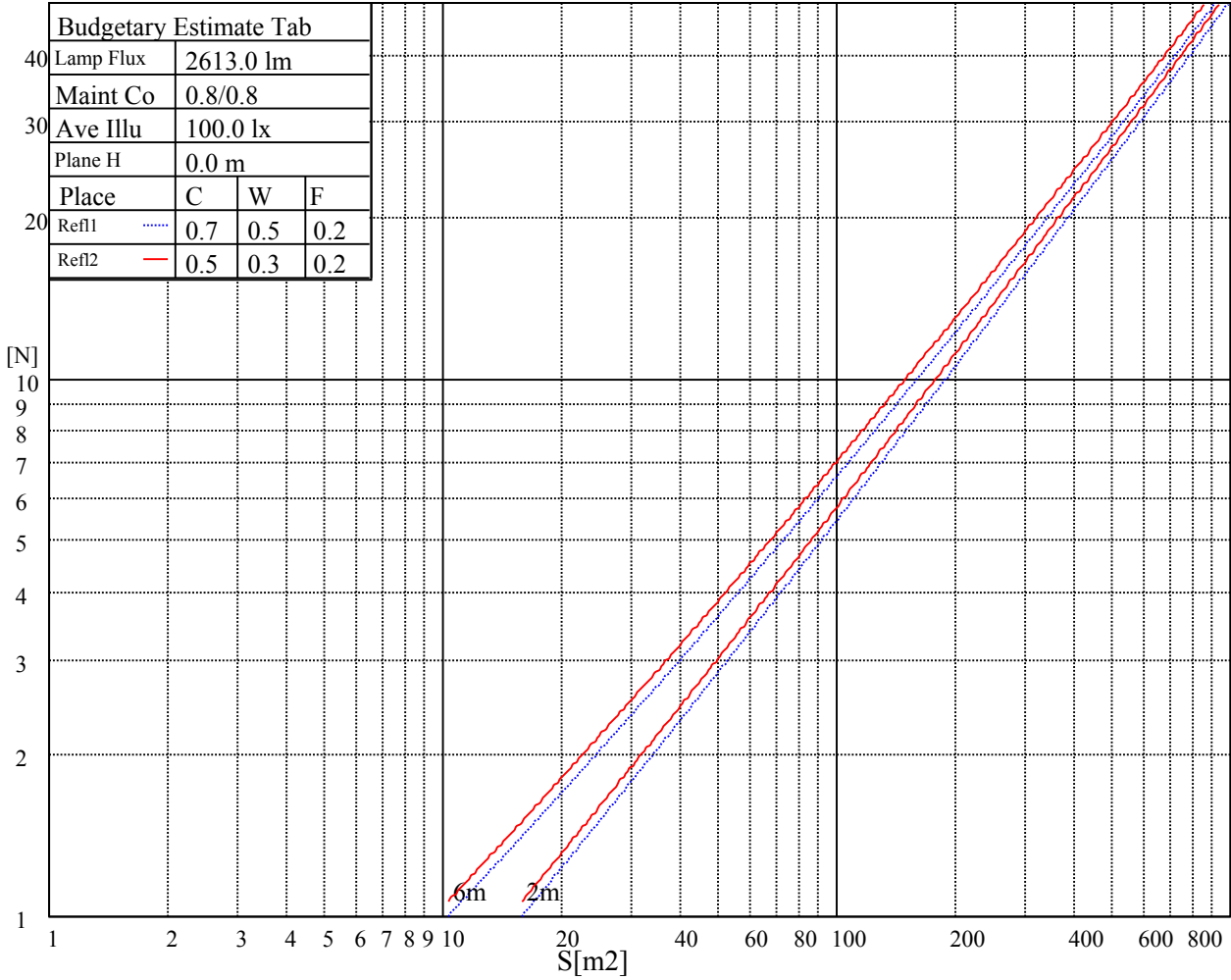
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

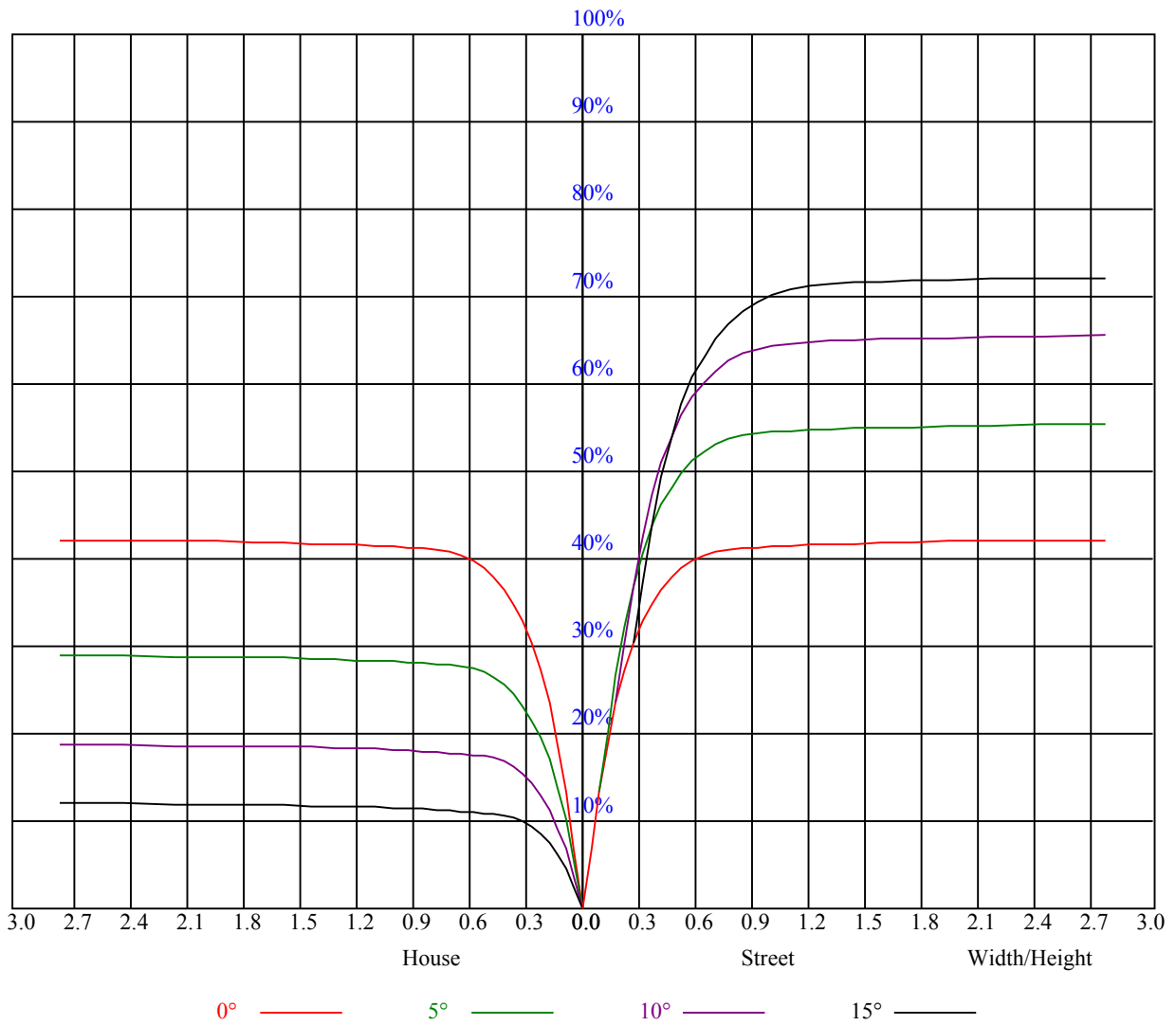


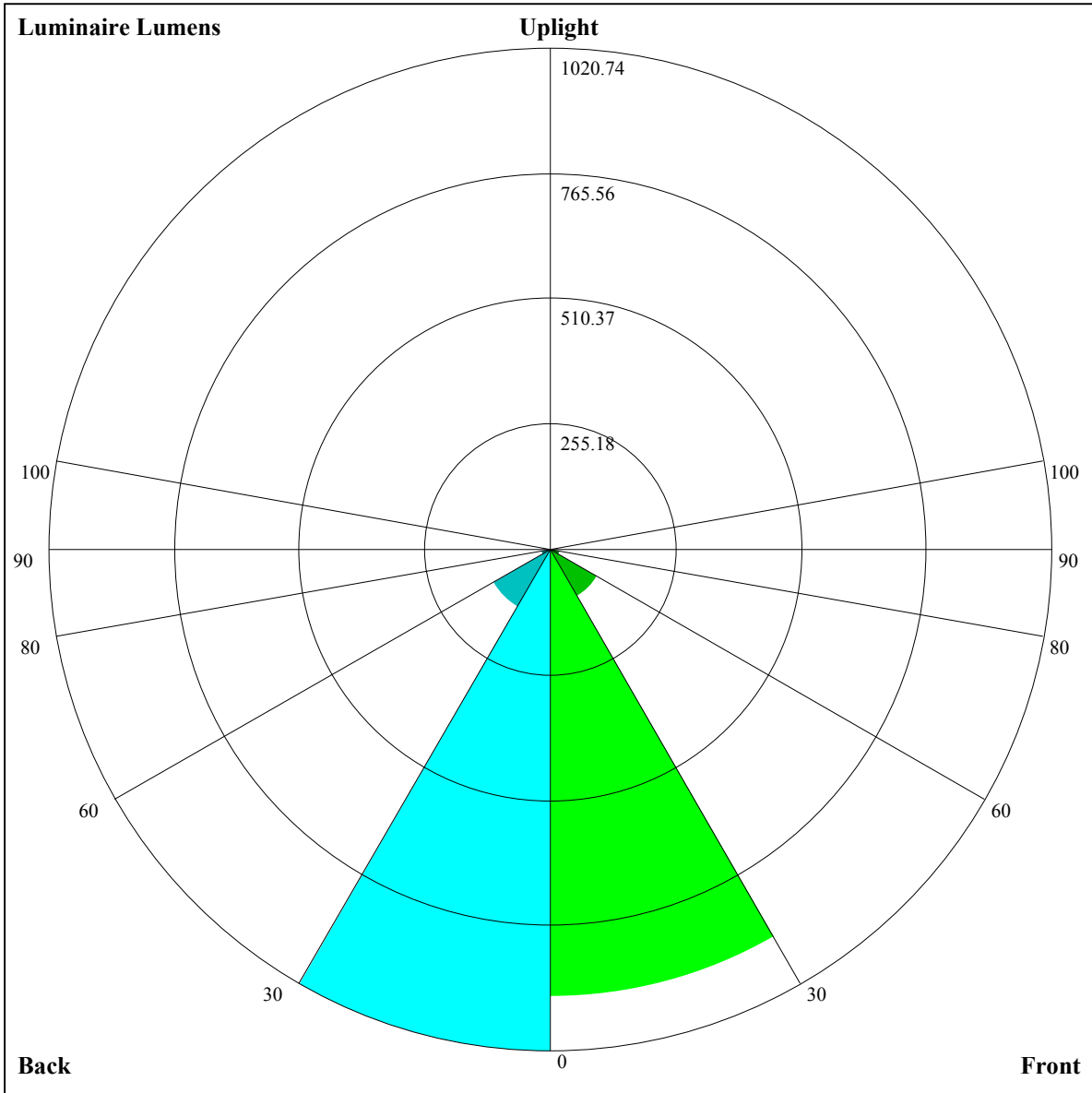
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.84	0.88	0.86	0.83	0.86	0.83	0.82	0.83	0.81	0.80	0.81	0.79	0.78	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	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
8	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.62	0.59	0.57	0.56





Luminaire Lumens:

FL=912.49,FM=111.73,FH=18.27,FVH=5.75

BL=1020.74,BM=134.01,BH=18.28,BVH=5.88

UL=0,UH=0

BUG Rating:B3-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	9727.08	9422.77	9000.23	8478.80	7701.03	7037.97	6353.85	5521.66	4880.84
45.0	9985.75	9825.40	9567.32	9070.46	8550.20	7940.98	7119.32	6439.87	5603.59
90.0	9841.79	9605.36	9137.18	8640.91	8040.46	7400.81	6553.41	5879.23	5219.10
135.0	10024.96	9959.42	9785.02	9495.92	8960.44	8407.40	7782.38	7118.15	6259.63
180.0	9727.08	9962.34	10020.87	9969.95	9810.19	9471.34	9069.29	8558.97	7780.04
225.0	9985.75	10024.38	9926.06	9728.84	9423.94	9002.57	8340.10	7701.62	7016.32
270.0	9841.79	10006.82	10003.89	9886.85	9590.14	9228.47	8763.80	8206.67	7396.72
315.0	10024.96	9953.57	9781.51	9494.16	8969.22	8443.10	7832.12	6989.40	6285.38
360.0	9727.08	9422.77	9000.23	8478.80	7701.03	7037.97	6353.85	5521.66	4880.84
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4165.10	3681.12	3266.78	2913.89	2551.64	2310.53	2098.68	1914.91	1720.03
45.0	4964.52	4379.30	3867.81	3328.82	2965.39	2657.57	2397.14	2120.91	1933.06
90.0	4601.68	3931.60	3480.98	3093.56	2771.10	2434.59	2205.19	1959.39	1793.19
135.0	5591.88	4956.33	4234.75	3742.57	3226.40	2881.71	2587.34	2279.51	2073.51
180.0	7101.76	6407.69	5557.94	4907.17	4314.34	3689.90	3278.49	2925.60	2625.38
225.0	6136.73	5456.11	4817.63	4106.00	3625.53	3221.72	2799.19	2515.94	2275.41
270.0	6700.30	6023.78	5368.91	4584.71	4029.33	3555.89	3157.35	2746.52	2466.20
315.0	5603.59	4795.98	4220.70	3724.43	3304.82	2866.49	2572.12	2322.82	2109.21
360.0	4165.10	3681.12	3266.78	2913.89	2551.64	2310.53	2098.68	1914.91	1720.03
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1582.51	1460.19	1265.31	1157.17	1157.17	1089.75	1010.63	942.04	846.53
45.0	1771.53	1627.57	1467.80	1357.20	1240.15	1163.49	1095.60	1016.01	945.20
90.0	1646.30	1480.68	1365.39	1161.26	1161.26	1093.43	1031.93	965.80	869.23
135.0	1896.19	1739.35	1563.19	1439.71	1332.62	1241.32	1146.51	1082.14	1018.35
180.0	2312.87	2096.92	1903.80	1739.35	1563.78	1439.71	1306.28	1217.91	1143.59
225.0	2066.49	1841.76	1687.85	1550.90	1430.93	1156.70	1156.70	1139.49	1063.41
270.0	2176.51	1976.36	1801.38	1620.55	1497.06	1381.19	1274.09	1177.53	1105.55
315.0	1878.63	1718.28	1576.07	1423.91	1260.05	1150.55	1133.64	1070.20	1010.68
360.0	1582.51	1460.19	1265.31	1157.17	1157.17	1089.75	1010.63	942.04	846.53
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	764.01	680.79	573.99	488.84	407.20	329.60	241.35	180.25	130.91
45.0	866.78	763.19	679.50	595.23	515.06	419.08	341.83	307.89	307.89
90.0	788.12	706.31	625.66	524.65	442.49	367.11	279.74	214.89	148.30
135.0	929.40	850.98	769.63	666.04	581.77	497.50	396.84	321.35	303.21
180.0	1064.58	1003.72	934.66	842.78	760.27	675.99	590.55	484.04	402.69
225.0	1003.08	917.98	841.96	759.45	652.64	566.03	486.44	409.19	316.08
270.0	1046.44	983.82	891.94	815.28	731.59	625.66	544.90	463.56	368.17
315.0	928.69	854.37	774.31	692.15	584.52	500.02	418.61	341.95	252.58
360.0	764.01	680.79	573.99	488.84	407.20	329.60	241.35	180.25	130.91
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.64	70.81	58.70	54.13	49.22	46.47	44.13	41.49	39.44
45.0	136.18	96.27	71.22	59.99	54.13	49.92	46.35	44.01	41.84
90.0	105.28	75.73	61.68	55.60	51.21	47.75	45.06	42.08	39.91
135.0	303.21	123.01	87.55	67.89	58.82	53.20	49.28	46.17	42.60
180.0	325.44	306.72	223.91	128.11	91.65	66.01	57.70	53.20	48.34
225.0	247.96	188.15	135.25	86.67	66.48	57.82	53.49	48.57	46.06
270.0	297.94	297.94	156.66	112.01	79.24	60.75	55.65	51.38	47.93
315.0	191.13	128.11	90.65	68.41	56.65	52.32	48.40	44.95	42.72
360.0	93.64	70.81	58.70	54.13	49.22	46.47	44.13	41.49	39.44

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	37.51	35.46	34.12	33.01	31.95	31.31	30.67	30.20	30.02
45.0	39.33	37.51	35.93	34.12	32.89	31.89	31.25	30.67	30.14
90.0	37.98	36.17	34.35	33.18	31.89	31.13	30.49	30.02	29.85
135.0	40.26	37.57	35.76	34.18	32.77	31.31	30.43	29.79	29.32
180.0	45.59	43.31	40.67	38.74	36.93	35.35	33.65	32.60	31.54
225.0	43.37	41.20	39.09	36.93	35.35	33.94	32.71	31.49	30.78
270.0	44.71	42.43	40.26	38.27	35.99	34.41	32.77	31.72	30.90
315.0	40.61	38.57	36.23	34.65	33.30	32.07	30.90	30.31	29.73
360.0	37.51	35.46	34.12	33.01	31.95	31.31	30.67	30.20	30.02
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.73	29.55	29.26	28.79	28.38	27.15	26.22	24.76	23.29
45.0	29.96	29.67	29.50	29.20	28.68	28.09	27.27	26.22	24.52
90.0	29.44	29.32	28.97	28.73	28.03	27.51	26.10	25.05	23.53
135.0	28.79	28.73	28.50	28.32	28.03	27.74	27.04	26.10	25.05
180.0	30.84	30.20	29.67	29.55	29.14	29.09	28.73	28.32	27.86
225.0	30.26	29.73	29.50	29.32	29.09	28.91	28.38	27.62	26.57
270.0	30.02	29.61	29.32	29.03	28.85	28.62	28.38	27.74	26.92
315.0	29.32	29.20	29.09	28.97	28.79	28.50	27.80	26.86	25.81
360.0	29.73	29.55	29.26	28.79	28.38	27.15	26.22	24.76	23.29
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.13	19.72	18.32	17.50	16.68	16.39	16.56	16.33	16.27
45.0	23.17	21.59	20.25	19.37	19.55	20.19	20.89	21.13	20.54
90.0	21.77	20.01	18.79	17.44	16.91	16.44	16.21	16.15	16.09
135.0	23.41	22.00	20.37	18.55	17.26	16.44	15.80	15.22	14.81
180.0	26.63	25.63	24.17	22.77	20.54	19.20	17.79	17.09	16.21
225.0	25.46	24.05	22.24	20.31	19.08	17.67	16.80	16.21	15.86
270.0	25.75	24.70	22.65	21.30	19.20	17.97	16.97	16.27	15.63
315.0	24.46	22.65	20.78	19.25	17.85	16.80	16.15	15.51	15.10
360.0	21.13	19.72	18.32	17.50	16.68	16.39	16.56	16.33	16.27
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.33	16.09	15.80	15.39	14.63	13.81	12.99	12.06	11.53
45.0	20.07	19.37	18.43	17.67	16.62	15.92	14.86	14.10	13.17
90.0	15.92	15.45	14.92	14.57	14.22	13.58	13.05	12.52	12.00
135.0	14.51	14.16	13.81	13.52	13.17	12.87	12.64	12.29	12.00
180.0	15.74	15.39	14.98	14.75	14.46	14.34	14.05	13.64	13.11
225.0	15.33	14.81	14.46	14.05	13.75	13.46	13.11	12.82	12.52
270.0	15.22	14.81	14.46	14.05	13.75	13.40	13.17	12.82	12.52
315.0	14.75	14.34	13.99	13.64	13.40	12.99	12.70	12.41	12.11
360.0	16.33	16.09	15.80	15.39	14.63	13.81	12.99	12.06	11.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.24	10.89	10.65	10.36	10.07	9.83	9.66	9.60	9.60
45.0	11.88	11.35	10.89	10.53	10.24	9.95	9.77	9.54	9.54
90.0	11.65	11.18	10.77	10.42	10.01	9.77	9.71	9.60	9.54
135.0	11.70	11.29	10.94	10.71	10.42	10.07	9.83	9.71	9.54
180.0	12.70	12.17	11.76	11.41	11.12	10.83	10.48	10.12	9.95
225.0	12.17	11.88	11.53	11.06	10.77	10.53	10.12	9.95	9.77
270.0	12.17	11.88	11.47	11.18	10.83	10.59	10.18	9.95	9.77
315.0	11.70	11.35	11.00	10.77	10.53	10.24	9.95	9.77	9.54
360.0	11.24	10.89	10.65	10.36	10.07	9.83	9.66	9.60	9.60

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.54
90.0	9.54
135.0	9.48
180.0	9.77
225.0	9.66
270.0	9.60
315.0	9.48
360.0	9.60