



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 2-2682-L

Luminaire: 92.70.412.00

Report No: 2024228-B027

Ballast type: AC

Test No: 2024228-C027

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): 2253.90, Efficiency(%): 86.26% , Luminous Efficacy(lm/W): 117.89

Central intensity(cd): 9415.306, Maximum intensity(cd): 9415.306

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

Beam Angle(50%Imax): [C0/180]Total=19.8

[C90/270]Total=19.8

Field angle(10%Imax): [C0/180]Total=54.2

[C90/270]Total=54.2

Maximum s/h(1/2): C0\_180=0.34 C90\_270=0.34

Maximum s/h(1/4): C0\_180=0.39 C90\_270=0.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.26%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.953%

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	9415.305	0.000	0	0.00%	0.00%
1.0	9344.200	8.976	8.976	0.34%	0.40%
2.0	9132.860	26.520	35.496	1.01%	1.57%
3.0	8776.458	42.833	78.329	1.64%	3.48%
4.0	8289.112	57.124	135.453	2.19%	6.01%
5.0	7667.603	68.645	204.098	2.63%	9.06%
6.0	7067.748	77.438	281.536	2.96%	12.49%
7.0	6446.605	83.883	365.42	3.21%	16.21%
8.0	5803.954	87.675	453.095	3.36%	20.10%
9.0	5204.318	89.216	542.311	3.41%	24.06%
10.0	4666.935	89.331	631.642	3.42%	28.02%
11.0	4221.213	88.811	720.453	3.40%	31.96%
12.0	3788.951	87.563	808.015	3.35%	35.85%
13.0	3373.954	85.006	893.021	3.25%	39.62%
14.0	3045.496	82.168	975.189	3.14%	43.27%
15.0	2733.279	79.334	1054.523	3.04%	46.79%
16.0	2470.586	76.251	1130.774	2.92%	50.17%
17.0	2236.935	73.309	1204.083	2.81%	53.42%
18.0	2024.425	70.261	1274.344	2.69%	56.54%
19.0	1851.784	67.438	1341.782	2.58%	59.53%
20.0	1701.747	65.039	1406.821	2.49%	62.42%
21.0	1565.755	62.743	1469.564	2.40%	65.20%
22.0	1410.209	59.803	1529.367	2.29%	67.85%
23.0	1310.304	57.084	1586.451	2.18%	70.39%
24.0	1215.198	55.217	1641.667	2.11%	72.84%
25.0	1133.010	53.393	1695.06	2.04%	75.21%
26.0	1041.576	51.331	1746.392	1.96%	77.48%
27.0	948.964	48.699	1795.091	1.86%	79.64%
28.0	857.179	45.728	1840.819	1.75%	81.67%
29.0	754.128	42.156	1882.975	1.61%	83.54%
30.0	661.831	38.231	1921.205	1.46%	85.24%
31.0	565.225	34.147	1955.353	1.31%	86.75%
32.0	480.777	29.967	1985.319	1.15%	88.08%
33.0	401.647	25.997	2011.316	0.99%	89.24%
34.0	337.543	22.370	2033.686	0.86%	90.23%
35.0	292.634	19.571	2053.257	0.75%	91.10%
36.0	252.261	17.350	2070.607	0.66%	91.87%
37.0	220.857	15.430	2086.037	0.59%	92.55%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	189.328	13.691	2099.728	0.52%	93.16%
39.0	149.752	11.574	2111.302	0.44%	93.67%
40.0	128.896	9.718	2121.02	0.37%	94.10%
41.0	110.447	8.523	2129.543	0.33%	94.48%
42.0	93.980	7.427	2136.97	0.28%	94.81%
43.0	80.878	6.477	2143.448	0.25%	95.10%
44.0	70.710	5.721	2149.169	0.22%	95.35%
45.0	62.634	5.125	2154.294	0.20%	95.58%
46.0	55.574	4.623	2158.916	0.18%	95.79%
47.0	50.666	4.225	2163.142	0.16%	95.97%
48.0	46.745	3.938	2167.08	0.15%	96.15%
49.0	43.928	3.724	2170.803	0.14%	96.31%
50.0	41.858	3.577	2174.38	0.14%	96.47%
51.0	40.439	3.482	2177.862	0.13%	96.63%
52.0	39.627	3.436	2181.298	0.13%	96.78%
53.0	38.991	3.420	2184.717	0.13%	96.93%
54.0	38.398	3.411	2188.128	0.13%	97.08%
55.0	37.754	3.399	2191.528	0.13%	97.23%
56.0	37.235	3.389	2194.916	0.13%	97.38%
57.0	36.328	3.363	2198.28	0.13%	97.53%
58.0	34.938	3.296	2201.575	0.13%	97.68%
59.0	32.992	3.176	2204.751	0.12%	97.82%
60.0	30.863	3.017	2207.768	0.12%	97.95%
61.0	28.544	2.835	2210.603	0.11%	98.08%
62.0	26.130	2.635	2213.237	0.10%	98.20%
63.0	23.687	2.423	2215.66	0.09%	98.30%
64.0	21.536	2.219	2217.879	0.08%	98.40%
65.0	19.700	2.041	2219.92	0.08%	98.49%
66.0	18.288	1.895	2221.816	0.07%	98.58%
67.0	17.154	1.782	2223.598	0.07%	98.66%
68.0	16.320	1.696	2225.293	0.06%	98.73%
69.0	15.655	1.631	2226.925	0.06%	98.80%
70.0	15.121	1.581	2228.505	0.06%	98.87%
71.0	14.616	1.537	2230.042	0.06%	98.94%
72.0	14.177	1.497	2231.539	0.06%	99.01%
73.0	13.841	1.465	2233.004	0.06%	99.07%
74.0	13.526	1.439	2234.443	0.06%	99.14%
75.0	13.204	1.412	2235.856	0.05%	99.20%

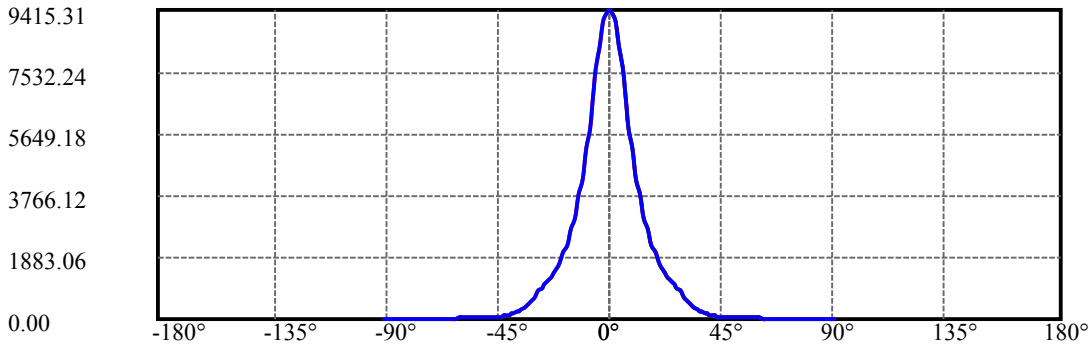
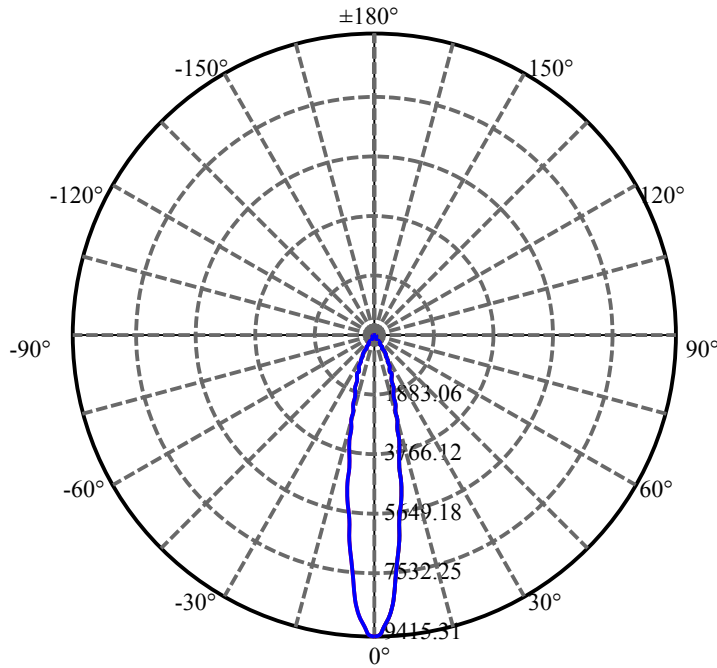
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.933	1.387	2237.243	0.05%	99.26%
77.0	12.641	1.364	2238.607	0.05%	99.32%
78.0	12.348	1.338	2239.944	0.05%	99.38%
79.0	12.026	1.310	2241.254	0.05%	99.44%
80.0	11.719	1.280	2242.534	0.05%	99.50%
81.0	11.405	1.250	2243.785	0.05%	99.55%
82.0	11.112	1.221	2245.006	0.05%	99.61%
83.0	10.812	1.192	2246.197	0.05%	99.66%
84.0	10.549	1.164	2247.361	0.04%	99.71%
85.0	10.307	1.138	2248.499	0.04%	99.76%
86.0	10.110	1.116	2249.615	0.04%	99.81%
87.0	9.912	1.096	2250.711	0.04%	99.86%
88.0	9.707	1.075	2251.786	0.04%	99.91%
89.0	9.612	1.059	2252.845	0.04%	99.95%
90.0	9.554	1.051	2253.896	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1921.21	73.52%	85.24%
0-40	2121.02	81.17%	94.10%
0-60	2207.77	84.49%	97.95%
0-90	2252.84	86.22%	99.95%
0-120	2252.84	86.22%	99.95%
0-180	2253.90	86.26%	100.00%
60-90	45.08	1.73%	2.00%
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%
0-27.18	1803.12	69.01%	80.00%

ZONAL LUMEN SUMMARY

0-10	631.64
10-20	775.18
20-30	514.38
30-40	199.81
40-50	53.36
50-60	33.39
60-70	20.74
70-80	14.03
80-90	10.31
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



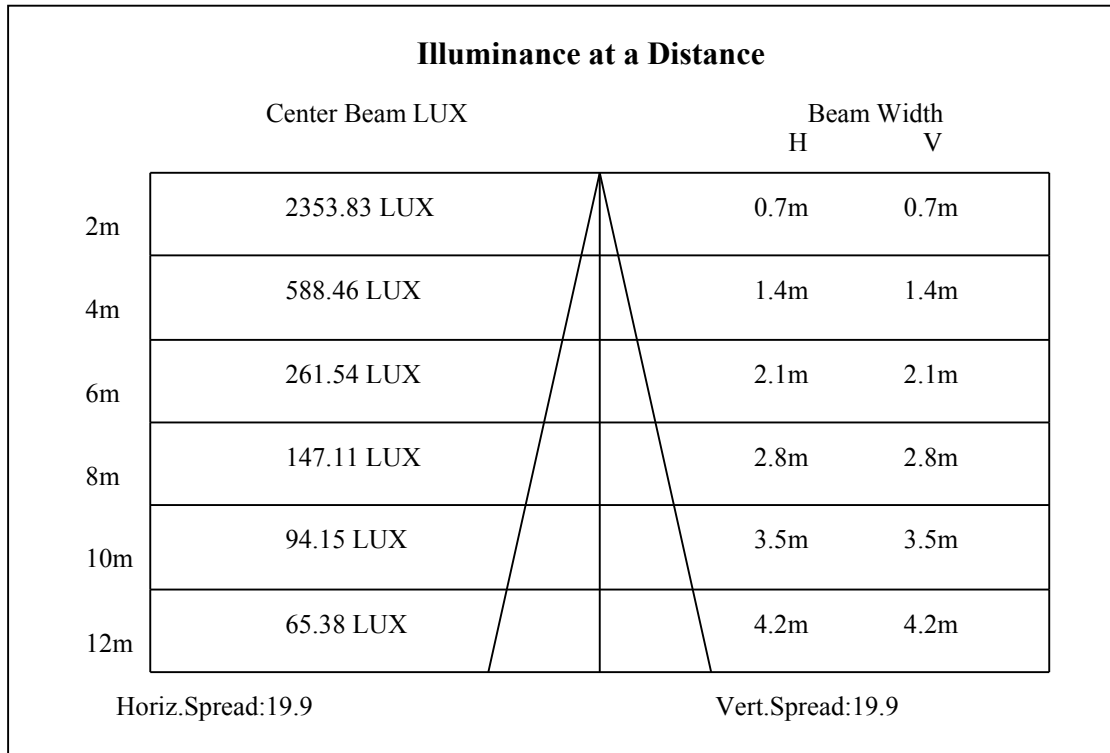
C0(Max): —————

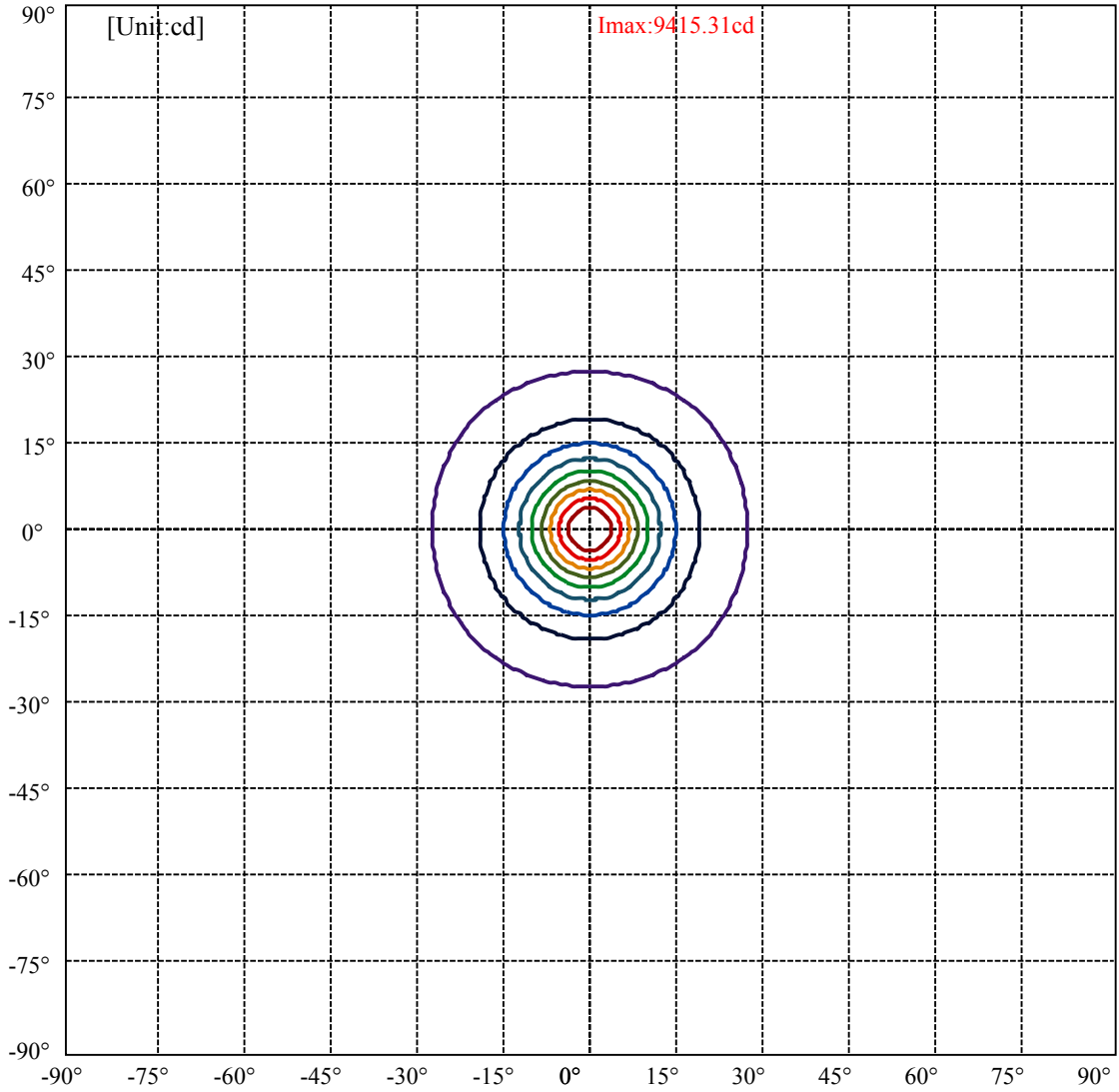
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:27.1 Right:27.1  
:C90/270Left:27.1 Right:27.1

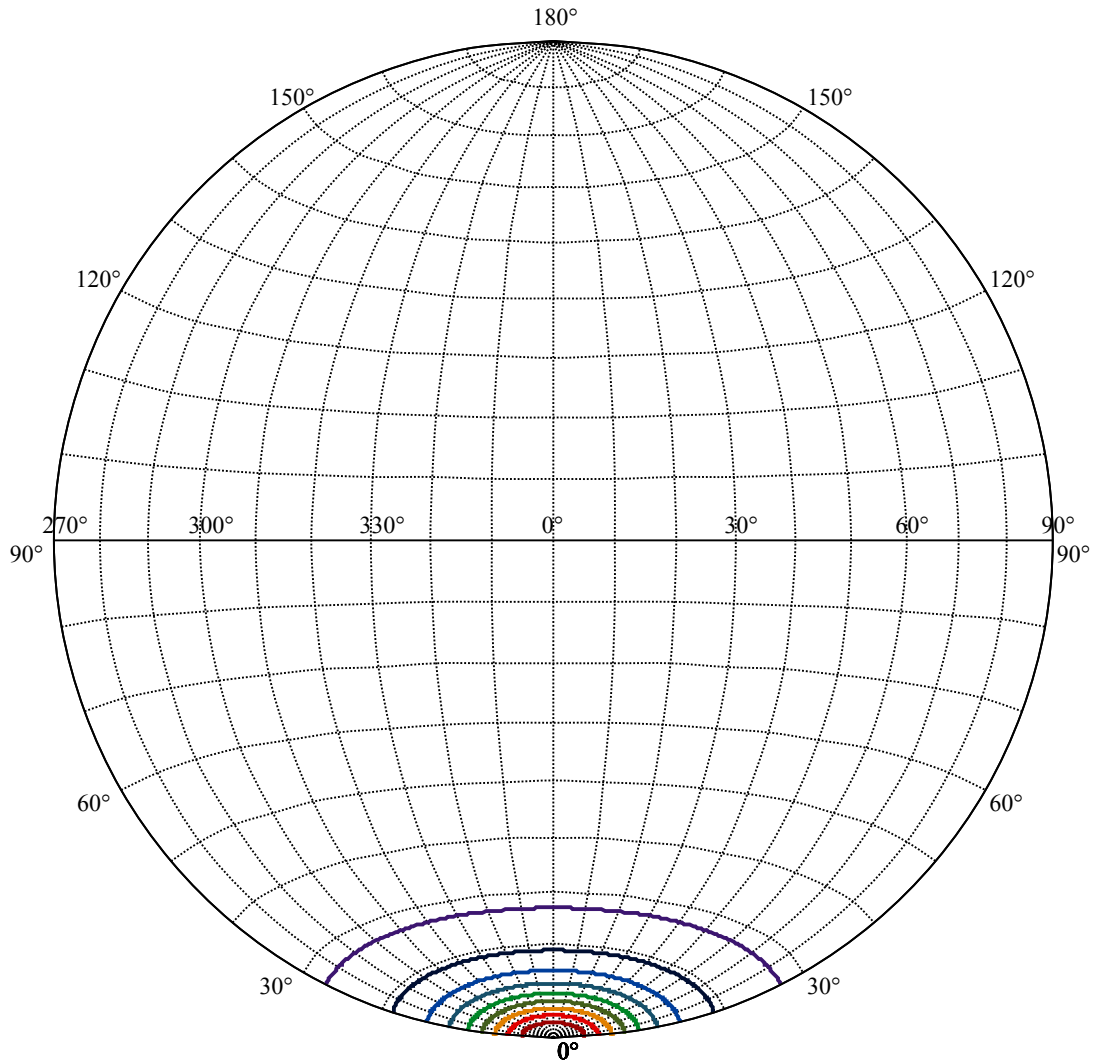
Beam Angle(50%Imax):C0/180Left:9.9 Right:9.9  
:C90/270Left:9.9 Right:9.9





(10%Imax) 941.531	—
(20%Imax) 1883.06	—
(30%Imax) 2824.59	—
(40%Imax) 3766.12	—
(50%Imax) 4707.65	—
(60%Imax) 5649.18	—
(70%Imax) 6590.71	—
(80%Imax) 7532.24	—
(90%Imax) 8473.78	—





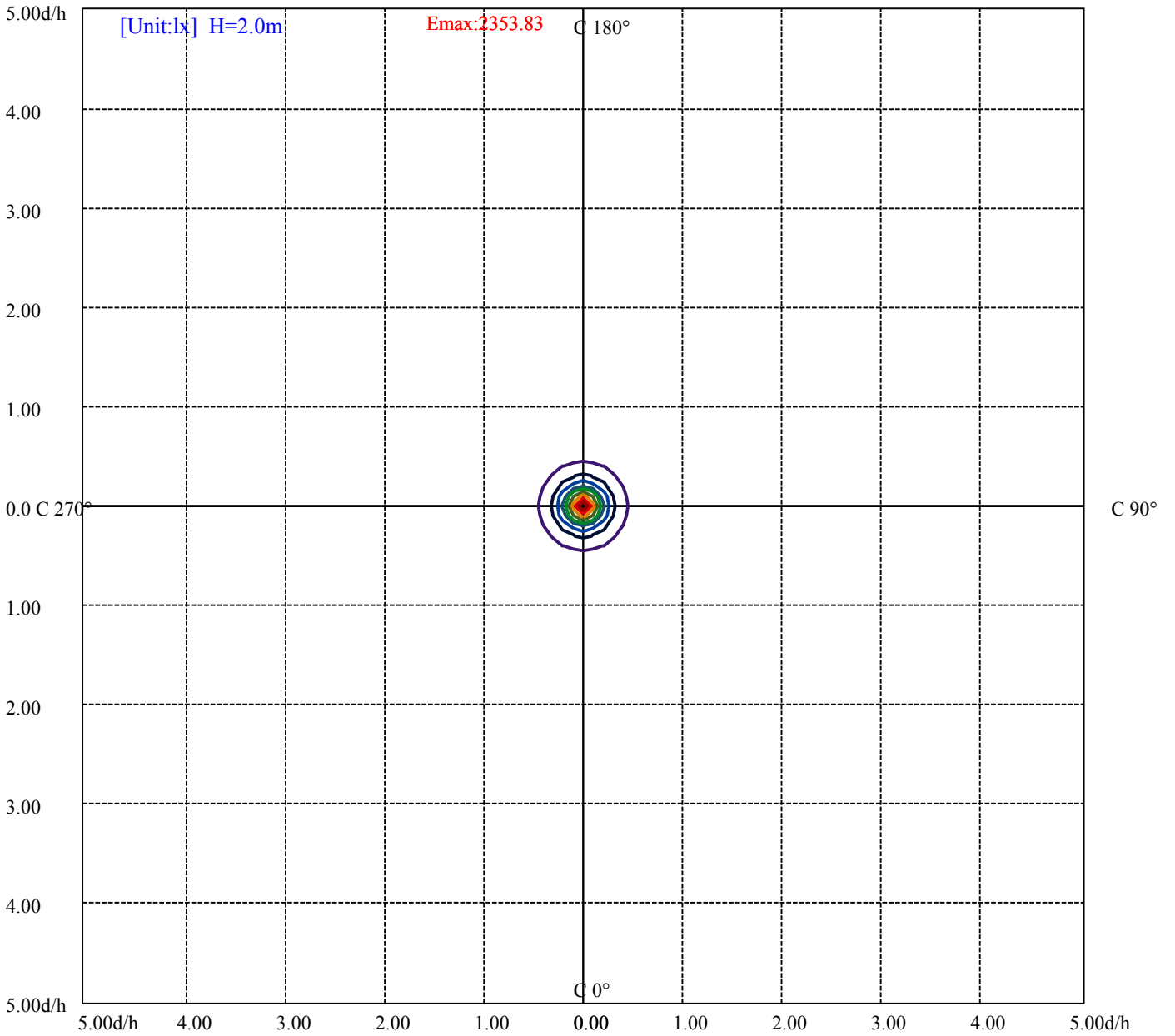
House

[Unit:cd]

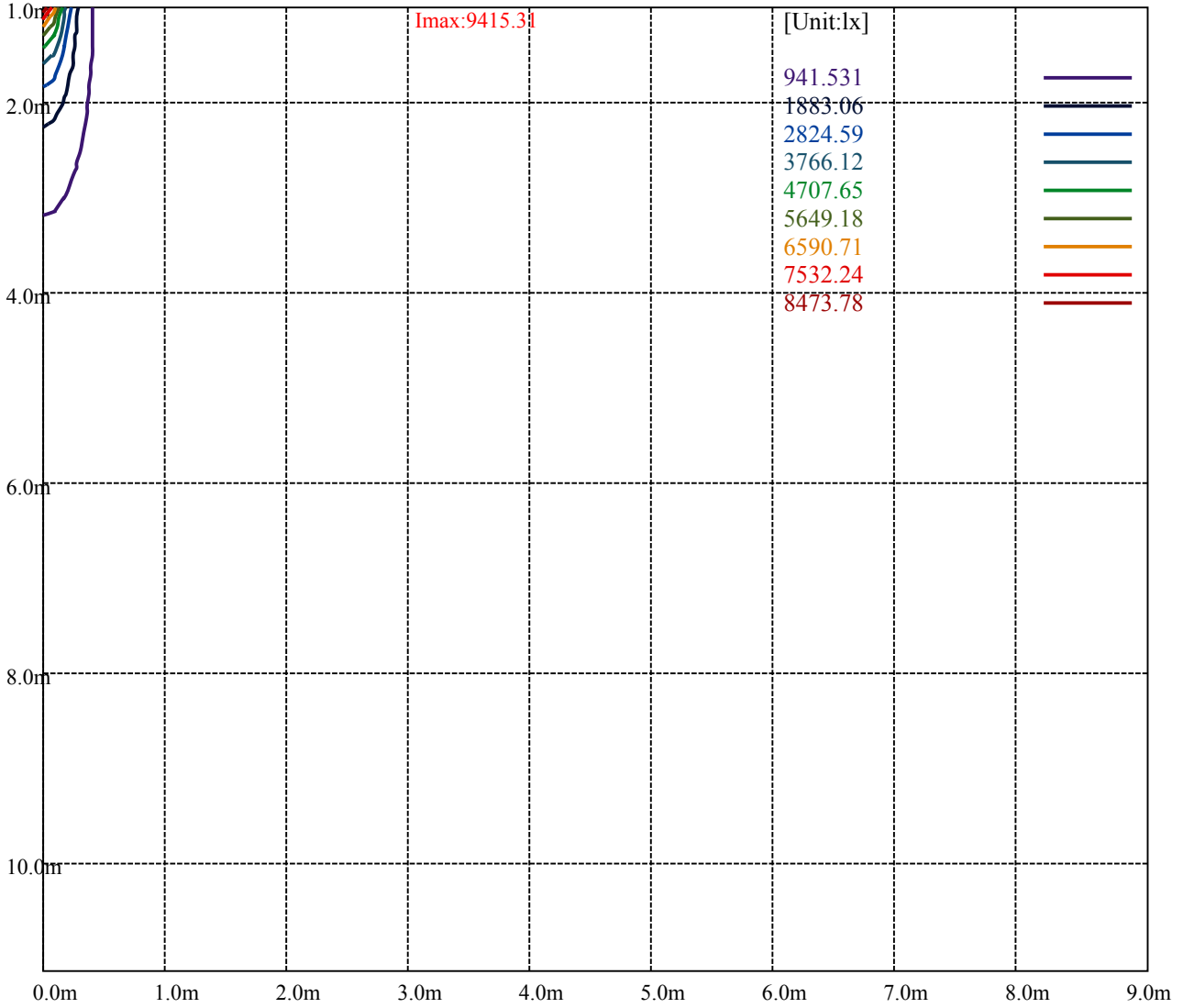
Road

Imax:9415.31

(10%Imax)	941.531	—
(20%Imax)	1883.06	—
(30%Imax)	2824.59	—
(40%Imax)	3766.12	—
(50%Imax)	4707.65	—
(60%Imax)	5649.18	—
(70%Imax)	6590.71	—
(80%Imax)	7532.24	—
(90%Imax)	8473.78	—



- (10%Emax) 235.3822
- (20%Emax) 470.765
- (30%Emax) 706.1475
- (40%Emax) 941.53
- (50%Emax) 1176.912
- (60%Emax) 1412.295
- (70%Emax) 1647.677
- (80%Emax) 1883.06
- (90%Emax) 2118.442



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

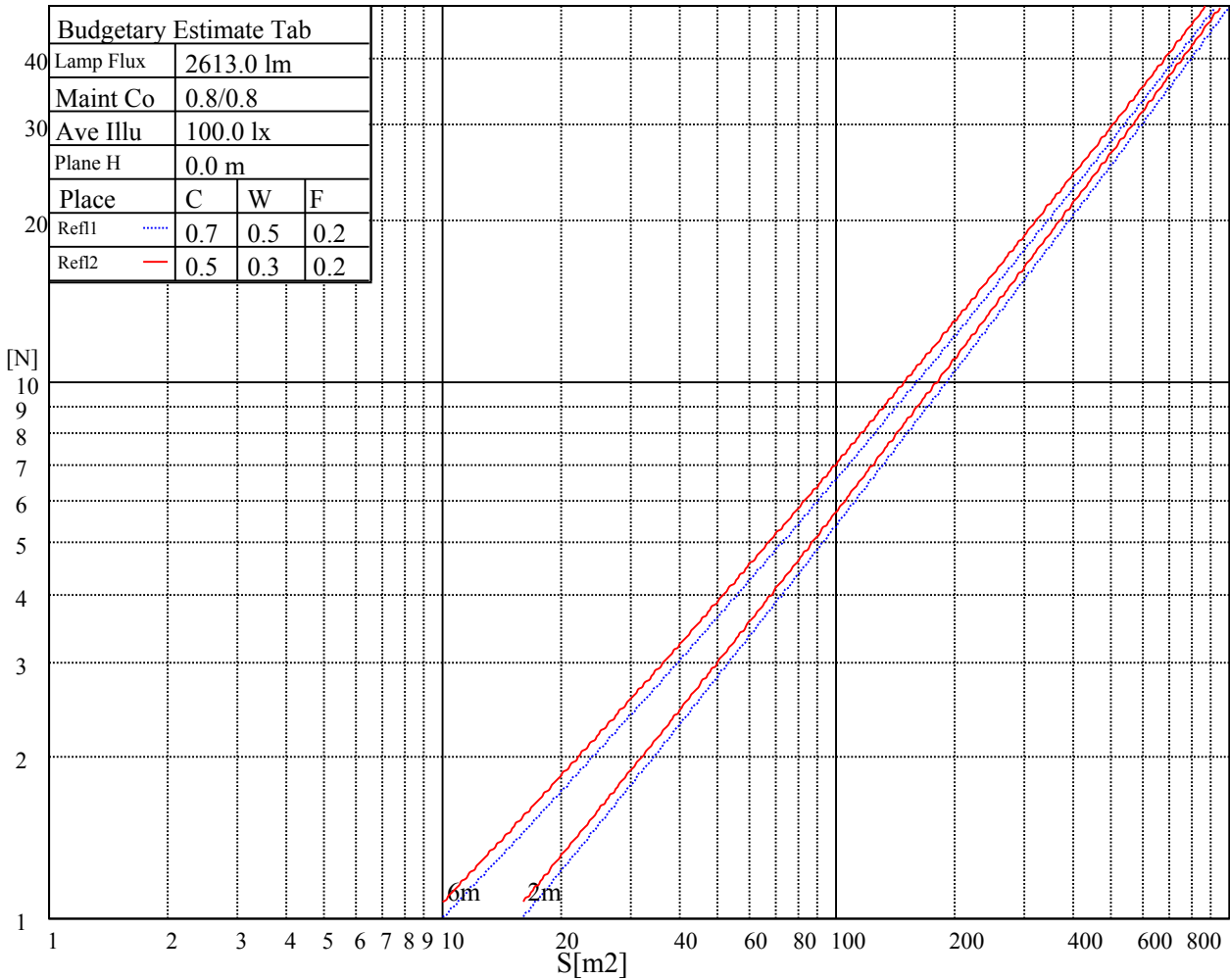
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

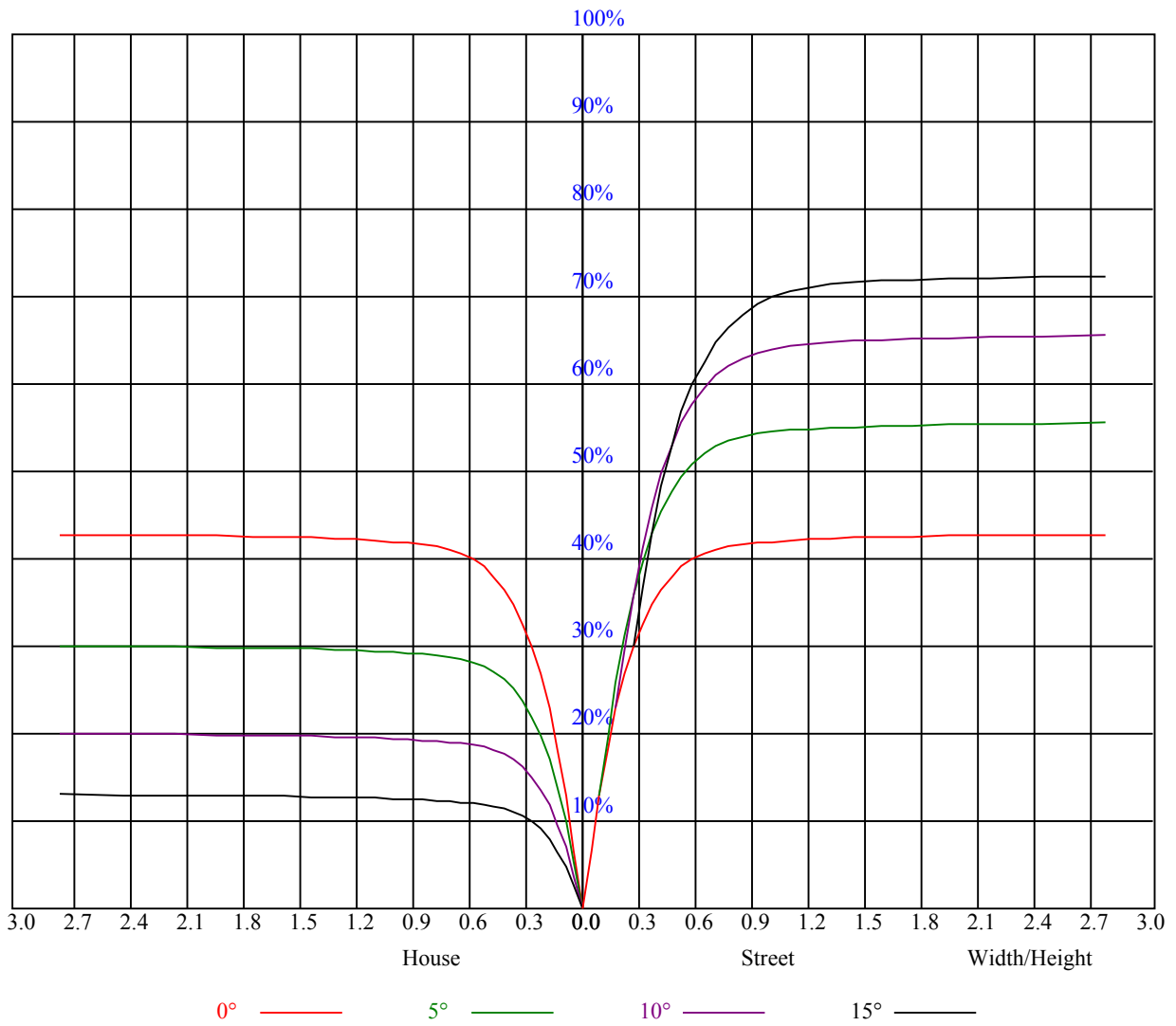


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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

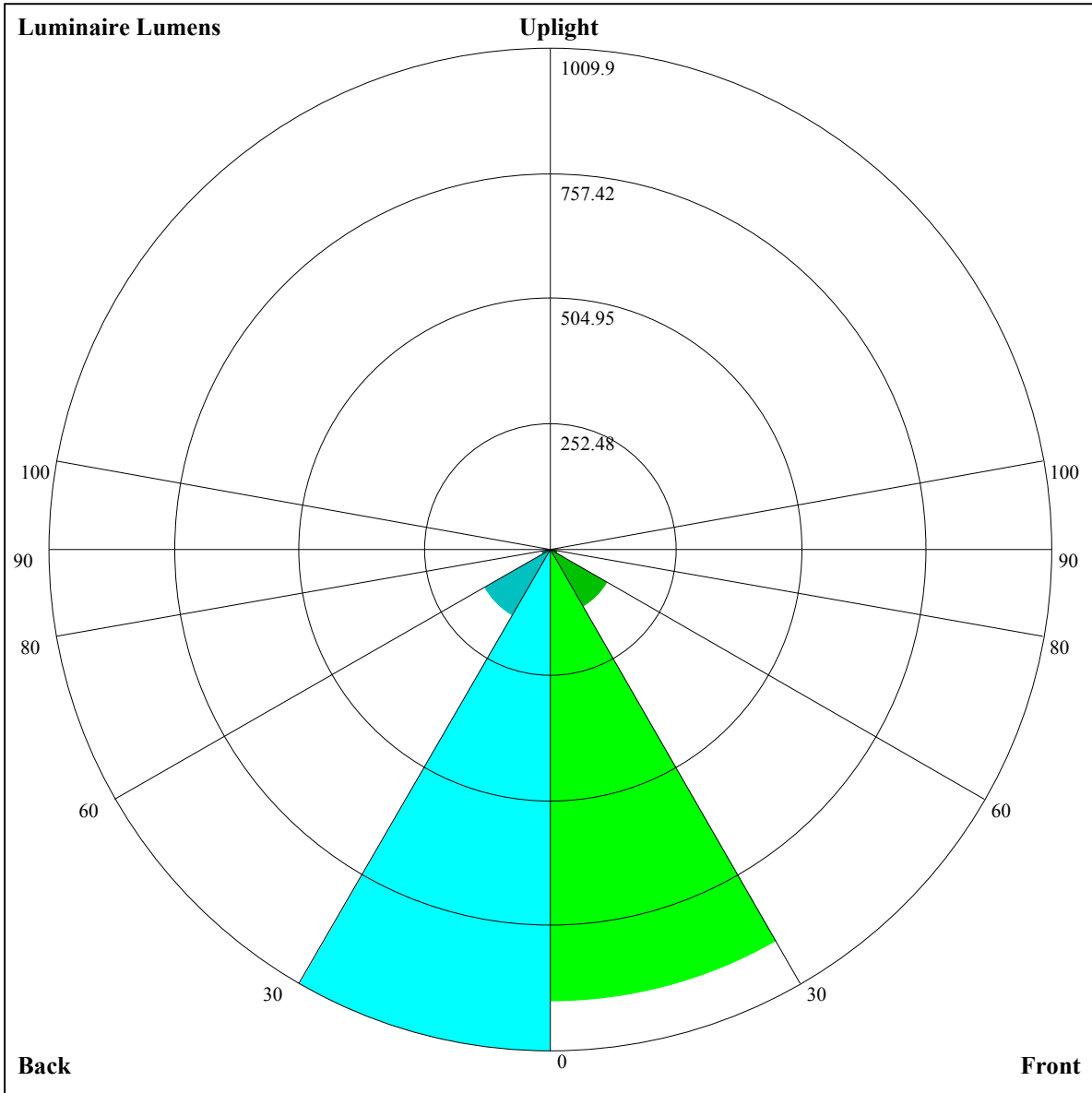
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOFC=20 CU															
0	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.82	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.76	0.73	0.72	0.70
5	0.78	0.74	0.71	0.77	0.73	0.70	0.76	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	0.66	0.72	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.56







Luminaire Lumens:

FL=910.55,FM=135.06,FH=16.97,FVH=5.63

BL=1009.9,BM=155.76,BH=17.88,BVH=5.74

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	9206.23	8865.05	8426.13	7732.05	7092.40	6305.86	5711.85	5158.82	4646.75
45.0	9484.80	9334.40	9059.93	8655.54	7988.38	7354.00	6705.57	6083.47	5370.08
90.0	9429.20	9132.49	8746.25	8218.37	7612.08	6826.71	6216.32	5640.46	5108.49
135.0	9540.98	9498.85	9319.18	9000.23	8376.38	7769.51	7164.97	6558.09	5811.93
180.0	9206.23	9467.83	9526.94	9465.49	9270.61	8842.22	8359.41	7776.53	7142.73
225.0	9484.80	9505.28	9384.14	9145.37	8779.02	8172.14	7577.55	6763.50	6125.02
270.0	9429.20	9522.84	9489.48	9269.44	8948.15	8534.39	7891.23	7291.96	6514.78
315.0	9540.98	9426.86	9110.84	8725.18	8245.88	7536.00	6915.08	6300.01	5711.85
360.0	9206.23	8865.05	8426.13	7732.05	7092.40	6305.86	5711.85	5158.82	4646.75
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4094.88	3699.85	3351.06	3037.96	2694.43	2448.05	2229.18	1995.68	1838.25
45.0	4852.16	4291.51	3890.05	3521.36	3104.68	2813.82	2551.05	2264.88	2072.93
90.0	4627.43	4104.24	3719.75	3272.05	2964.81	2686.83	2379.58	2171.24	1989.82
135.0	5262.40	4776.66	4339.50	3939.21	3469.86	3127.50	2759.98	2508.33	2286.53
180.0	6333.95	5727.66	5176.37	4549.60	4120.04	3736.13	3289.02	2970.66	2688.00
225.0	5525.75	4849.23	4375.20	3954.42	3570.52	3155.59	2856.54	2588.51	2352.08
270.0	5916.68	5362.48	4841.04	4361.16	3816.90	3444.69	3122.23	2834.89	2504.24
315.0	5021.29	4523.85	4076.74	3675.86	3250.40	2951.35	2678.63	2430.50	2163.64
360.0	4094.88	3699.85	3351.06	3037.96	2694.43	2448.05	2229.18	1995.68	1838.25
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1701.89	1554.42	1449.66	1353.10	1150.44	1150.44	1064.70	955.44	863.50
45.0	1905.55	1761.59	1604.16	1490.63	1387.63	1293.41	1181.63	1091.50	1001.38
90.0	1799.63	1666.78	1542.13	1430.93	1158.80	1158.80	1112.57	1022.04	909.79
135.0	2050.69	1888.58	1746.37	1587.19	1473.07	1368.31	1271.17	1153.54	1059.90
180.0	2383.09	2167.73	1989.24	1803.72	1664.44	1537.44	1436.79	1319.16	1223.18
225.0	2096.92	1919.60	1768.02	1605.92	1489.46	1388.21	1165.48	1165.48	1104.14
270.0	2276.58	2070.58	1862.24	1720.03	1554.42	1436.20	1339.64	1227.86	1146.51
315.0	1981.05	1784.99	1652.15	1534.52	1403.43	1149.62	1149.62	1129.07	1024.20
360.0	1701.89	1554.42	1449.66	1353.10	1150.44	1150.44	1064.70	955.44	863.50
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	769.22	675.35	560.29	475.32	401.64	339.84	279.80	240.53	207.52
45.0	887.84	794.79	679.50	589.38	503.35	425.52	347.68	298.52	298.52
90.0	818.91	708.47	619.11	530.92	431.08	365.47	313.74	262.41	228.24
135.0	968.02	877.90	764.36	671.90	581.77	477.60	409.13	341.24	297.94
180.0	1142.42	1048.78	942.27	849.81	725.15	630.35	538.47	437.81	370.51
225.0	1000.15	914.94	827.86	736.80	619.29	527.35	444.13	374.49	304.43
270.0	1066.34	984.99	876.14	793.04	705.25	612.79	504.52	426.69	361.14
315.0	938.82	852.20	763.48	647.49	554.27	467.30	375.71	318.66	272.77
360.0	769.22	675.35	560.29	475.32	401.64	339.84	279.80	240.53	207.52
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	172.64	149.17	128.57	107.86	94.28	83.16	71.46	63.97	57.88
45.0	250.36	186.51	162.05	140.86	122.19	103.41	90.53	78.77	66.60
90.0	199.15	173.17	150.17	125.47	108.56	93.87	81.35	68.53	61.04
135.0	297.94	251.47	187.51	160.76	137.47	118.74	98.20	84.21	72.92
180.0	317.84	296.18	296.18	198.51	171.94	148.94	123.66	106.04	90.89
225.0	259.43	221.57	182.18	155.08	132.49	109.32	94.75	80.29	70.70
270.0	295.60	295.60	242.46	173.46	147.59	125.53	103.99	90.59	79.53
315.0	225.14	193.18	165.50	136.01	116.64	100.60	87.90	74.62	66.13
360.0	172.64	149.17	128.57	107.86	94.28	83.16	71.46	63.97	57.88

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	52.44	47.34	44.95	42.84	41.08	40.38	39.50	38.62	38.33
45.0	59.81	53.31	48.87	46.06	43.83	41.43	40.79	40.26	39.33
90.0	54.19	49.51	46.17	43.72	42.02	40.67	40.26	39.44	38.80
135.0	63.50	54.95	49.98	45.41	42.60	40.97	39.44	38.98	38.51
180.0	78.24	65.90	58.82	52.03	47.34	44.13	41.73	40.26	39.33
225.0	62.38	55.83	49.57	45.71	43.07	41.20	39.03	38.33	38.27
270.0	70.81	62.91	57.88	52.55	48.63	45.53	43.42	42.14	41.14
315.0	59.69	54.84	49.10	45.65	42.84	40.56	39.33	38.98	38.22
360.0	52.44	47.34	44.95	42.84	41.08	40.38	39.50	38.62	38.33
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.86	36.46	35.29	33.77	31.31	28.38	26.57	24.05	21.71
45.0	38.80	38.51	37.75	36.28	35.23	32.89	29.79	27.74	25.22
90.0	38.62	37.86	36.75	35.70	33.77	30.72	28.44	25.81	23.17
135.0	37.69	37.69	37.40	36.64	35.11	33.83	31.60	28.97	26.63
180.0	38.92	37.86	37.51	37.57	37.16	35.87	34.76	33.30	30.43
225.0	37.63	36.87	37.04	36.34	35.11	34.06	31.78	29.38	27.27
270.0	40.20	39.39	39.27	38.74	37.34	36.05	34.24	31.78	29.26
315.0	37.45	37.40	36.87	35.58	34.47	32.13	29.73	27.33	25.34
360.0	37.86	36.46	35.29	33.77	31.31	28.38	26.57	24.05	21.71
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.78	18.49	17.50	16.56	15.92	15.39	14.86	14.46	14.10
45.0	22.30	20.60	19.14	17.79	16.91	16.21	15.63	15.04	14.57
90.0	21.01	19.20	17.91	16.97	16.21	15.51	14.92	14.51	14.05
135.0	24.23	21.77	19.78	18.38	17.09	16.33	15.68	15.16	14.57
180.0	28.15	26.16	22.88	20.78	18.90	17.73	16.85	16.15	15.45
225.0	25.16	22.00	20.13	18.67	17.50	16.50	15.86	15.33	14.75
270.0	26.57	23.94	21.54	19.78	18.14	17.09	16.21	15.57	15.04
315.0	22.30	20.13	18.73	17.38	16.56	15.80	15.22	14.75	14.40
360.0	19.78	18.49	17.50	16.56	15.92	15.39	14.86	14.46	14.10
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.75	13.46	13.23	12.87	12.58	12.23	11.94	11.53	11.24
45.0	14.22	13.87	13.46	13.23	12.87	12.52	12.17	11.88	11.53
90.0	13.64	13.34	13.11	12.82	12.58	12.29	11.94	11.59	11.24
135.0	14.16	13.81	13.52	13.23	12.93	12.76	12.47	12.11	11.82
180.0	14.92	14.51	14.10	13.75	13.40	13.11	12.82	12.58	12.29
225.0	14.28	13.93	13.58	13.23	13.05	12.70	12.47	12.17	11.88
270.0	14.51	14.16	13.81	13.40	13.17	12.93	12.64	12.29	12.06
315.0	13.93	13.64	13.40	13.11	12.87	12.58	12.35	12.06	11.70
360.0	13.75	13.46	13.23	12.87	12.58	12.23	11.94	11.53	11.24
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.89	10.65	10.36	10.18	9.95	9.83	9.60	9.54	9.60
45.0	11.24	10.89	10.65	10.42	10.18	10.01	9.83	9.60	9.54
90.0	11.00	10.71	10.48	10.24	10.07	9.83	9.66	9.48	9.48
135.0	11.47	11.24	10.89	10.59	10.36	10.12	10.01	9.71	9.60
180.0	11.94	11.70	11.29	11.00	10.71	10.53	10.24	10.01	9.83
225.0	11.59	11.24	10.94	10.65	10.42	10.24	10.01	9.83	9.66
270.0	11.70	11.41	11.12	10.77	10.48	10.24	10.07	9.83	9.66
315.0	11.41	11.06	10.77	10.53	10.30	10.07	9.89	9.66	9.54
360.0	10.89	10.65	10.36	10.18	9.95	9.83	9.60	9.54	9.60

Intensity data(cd)

<i>C/γ(°)</i>	<b>90.0</b>
<b>0.0</b>	<b>9.60</b>
<b>45.0</b>	<b>9.54</b>
<b>90.0</b>	<b>9.54</b>
<b>135.0</b>	<b>9.48</b>
<b>180.0</b>	<b>9.71</b>
<b>225.0</b>	<b>9.54</b>
<b>270.0</b>	<b>9.48</b>
<b>315.0</b>	<b>9.54</b>
<b>360.0</b>	<b>9.60</b>