



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86 571 85021543 Fax:+86 571 87977635
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT

LumCAT: 62-0094

Luminaire: 92.70.412.00

Report No: 20261006-B007

Ballast type: DC

Test No: 20261006-C007

LampCAT: CITIZEN CLU038

Lamp flux(lm): 2335.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.650

Current(A): 0.526

Power (W): 18.220

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 2241.90, Efficiency(%): 96.01% , Luminous Efficacy(lm/W): 123.05

Central intensity(cd): 15085.470, Maximum intensity(cd): 15337.700

Angle of maximum intensity: C=45.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=18.3

[C90/270]Total=18.2

Field angle(10%Imax): [C0/180]Total=33.8

[C90/270]Total=33.4

Maximum s/h(1/2): C0_180=0.33 C90_270=0.33

Maximum s/h(1/4): C0_180=0.31 C90_270=0.31

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.01%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.548%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15142.392	0.000	0	0.00%	0.00%
1.0	15071.506	14.457	14.457	0.62%	0.64%
2.0	14808.911	42.887	57.344	1.84%	2.56%
3.0	14348.046	69.734	127.078	2.99%	5.67%
4.0	13741.812	94.026	221.104	4.03%	9.86%
5.0	12863.672	114.455	335.559	4.90%	14.97%
6.0	11799.959	129.614	465.173	5.55%	20.75%
7.0	10591.088	138.981	604.154	5.95%	26.95%
8.0	9218.333	141.772	745.926	6.07%	33.27%
9.0	7889.273	138.648	884.574	5.94%	39.46%
10.0	6482.133	130.056	1014.63	5.57%	45.26%
11.0	5334.944	118.077	1132.707	5.06%	50.52%
12.0	4171.673	103.921	1236.628	4.45%	55.16%
13.0	3310.122	88.790	1325.418	3.80%	59.12%
14.0	2560.318	75.141	1400.559	3.22%	62.47%
15.0	2060.328	63.434	1463.993	2.72%	65.30%
16.0	1779.842	56.269	1520.262	2.41%	67.81%
17.0	1509.999	51.232	1571.494	2.19%	70.10%
18.0	1309.444	46.486	1617.98	1.99%	72.17%
19.0	1136.186	42.549	1660.529	1.82%	74.07%
20.0	988.839	38.894	1699.423	1.67%	75.80%
21.0	875.305	35.795	1735.219	1.53%	77.40%
22.0	774.668	33.157	1768.375	1.42%	78.88%
23.0	683.531	30.597	1798.972	1.31%	80.24%
24.0	601.769	28.101	1827.074	1.20%	81.50%
25.0	531.857	25.776	1852.85	1.10%	82.65%
26.0	470.863	23.669	1876.519	1.01%	83.70%
27.0	420.470	21.807	1898.326	0.93%	84.67%
28.0	371.115	20.041	1918.367	0.86%	85.57%
29.0	337.999	18.552	1936.92	0.79%	86.40%
30.0	292.093	17.012	1953.932	0.73%	87.16%
31.0	247.128	15.006	1968.938	0.64%	87.82%
32.0	218.403	13.337	1982.274	0.57%	88.42%
33.0	194.259	12.157	1994.432	0.52%	88.96%
34.0	170.761	11.047	2005.478	0.47%	89.45%
35.0	151.929	10.022	2015.5	0.43%	89.90%
36.0	135.763	9.160	2024.66	0.39%	90.31%
37.0	121.924	8.404	2033.064	0.36%	90.68%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	111.164	7.780	2040.844	0.33%	91.03%
39.0	101.790	7.269	2048.113	0.31%	91.36%
40.0	94.628	6.850	2054.963	0.29%	91.66%
41.0	88.131	6.508	2061.471	0.28%	91.95%
42.0	83.794	6.246	2067.718	0.27%	92.23%
43.0	80.122	6.072	2073.79	0.26%	92.50%
44.0	77.022	5.931	2079.721	0.25%	92.77%
45.0	74.663	5.829	2085.55	0.25%	93.03%
46.0	72.716	5.764	2091.314	0.25%	93.28%
47.0	71.119	5.721	2097.035	0.24%	93.54%
48.0	69.384	5.680	2102.714	0.24%	93.79%
49.0	67.860	5.636	2108.35	0.24%	94.04%
50.0	66.188	5.589	2113.939	0.24%	94.29%
51.0	64.633	5.535	2119.474	0.24%	94.54%
52.0	62.803	5.468	2124.943	0.23%	94.78%
53.0	60.824	5.378	2130.32	0.23%	95.02%
54.0	58.878	5.276	2135.596	0.23%	95.26%
55.0	56.741	5.161	2140.757	0.22%	95.49%
56.0	54.508	5.027	2145.784	0.22%	95.71%
57.0	52.233	4.880	2150.665	0.21%	95.93%
58.0	50.287	4.741	2155.406	0.20%	96.14%
59.0	48.329	4.610	2160.016	0.20%	96.35%
60.0	46.298	4.471	2164.487	0.19%	96.55%
61.0	44.425	4.330	2168.816	0.19%	96.74%
62.0	42.510	4.189	2173.005	0.18%	96.93%
63.0	40.754	4.050	2177.055	0.17%	97.11%
64.0	38.892	3.908	2180.963	0.17%	97.28%
65.0	37.220	3.767	2184.73	0.16%	97.45%
66.0	35.612	3.634	2188.364	0.16%	97.61%
67.0	34.089	3.505	2191.868	0.15%	97.77%
68.0	32.608	3.379	2195.247	0.14%	97.92%
69.0	30.968	3.243	2198.49	0.14%	98.06%
70.0	29.444	3.103	2201.593	0.13%	98.20%
71.0	27.878	2.963	2204.556	0.13%	98.33%
72.0	26.482	2.827	2207.382	0.12%	98.46%
73.0	25.128	2.699	2210.081	0.12%	98.58%
74.0	24.175	2.592	2212.673	0.11%	98.70%
75.0	23.784	2.534	2215.207	0.11%	98.81%

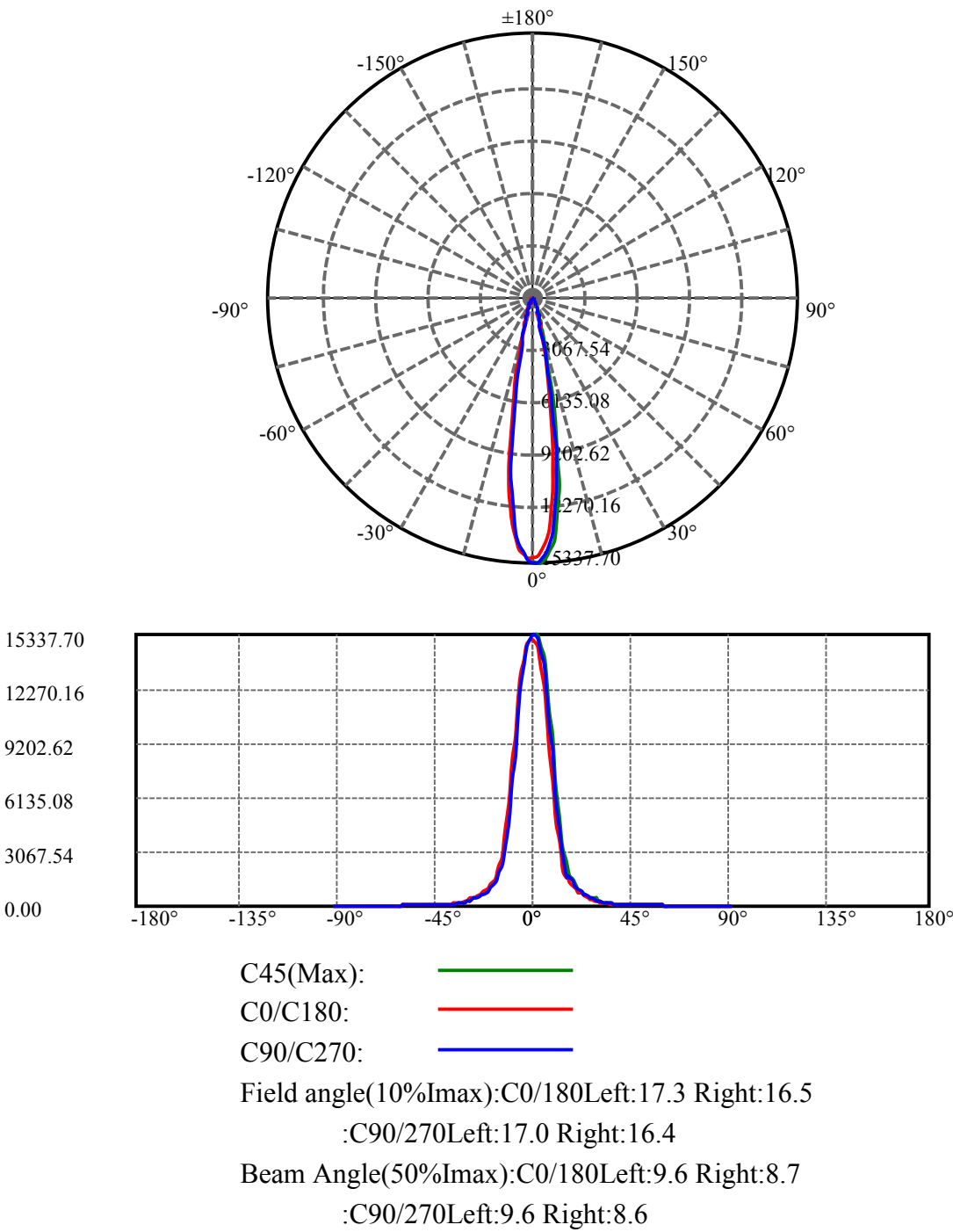
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	23.932	2.533	2217.74	0.11%	98.92%
77.0	23.699	2.539	2220.279	0.11%	99.04%
78.0	23.160	2.508	2222.788	0.11%	99.15%
79.0	22.345	2.445	2225.233	0.10%	99.26%
80.0	20.811	2.327	2227.559	0.10%	99.36%
81.0	18.547	2.128	2229.688	0.09%	99.46%
82.0	16.674	1.910	2231.598	0.08%	99.54%
83.0	14.674	1.704	2233.302	0.07%	99.62%
84.0	13.363	1.527	2234.829	0.07%	99.68%
85.0	12.336	1.403	2236.232	0.06%	99.75%
86.0	11.289	1.291	2237.523	0.06%	99.80%
87.0	10.485	1.192	2238.715	0.05%	99.86%
88.0	9.829	1.113	2239.828	0.05%	99.91%
89.0	9.416	1.055	2240.883	0.05%	99.95%
90.0	9.205	1.021	2241.904	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1953.93	83.68%	87.16%
0-40	2054.96	88.01%	91.66%
0-60	2164.49	92.70%	96.55%
0-90	2240.88	95.97%	99.95%
0-120	2240.88	95.97%	99.95%
0-180	2241.90	96.01%	100.00%
60-90	76.40	3.27%	3.41%
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%
0-22.82	1793.52	76.81%	80.00%

ZONAL LUMEN SUMMARY

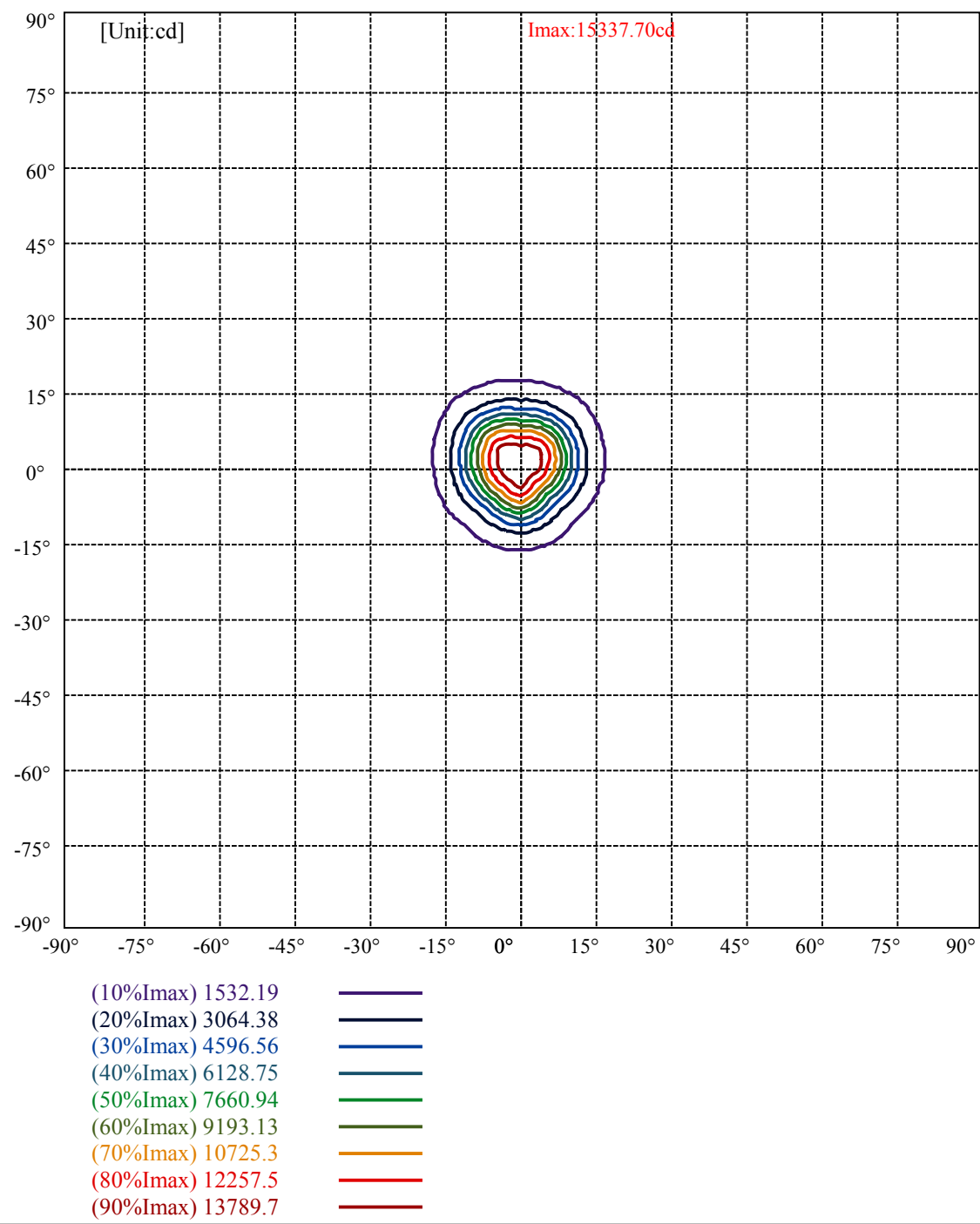
0-10	1014.63
10-20	684.79
20-30	254.51
30-40	101.03
40-50	58.98
50-60	50.55
60-70	37.11
70-80	25.97
80-90	13.32
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

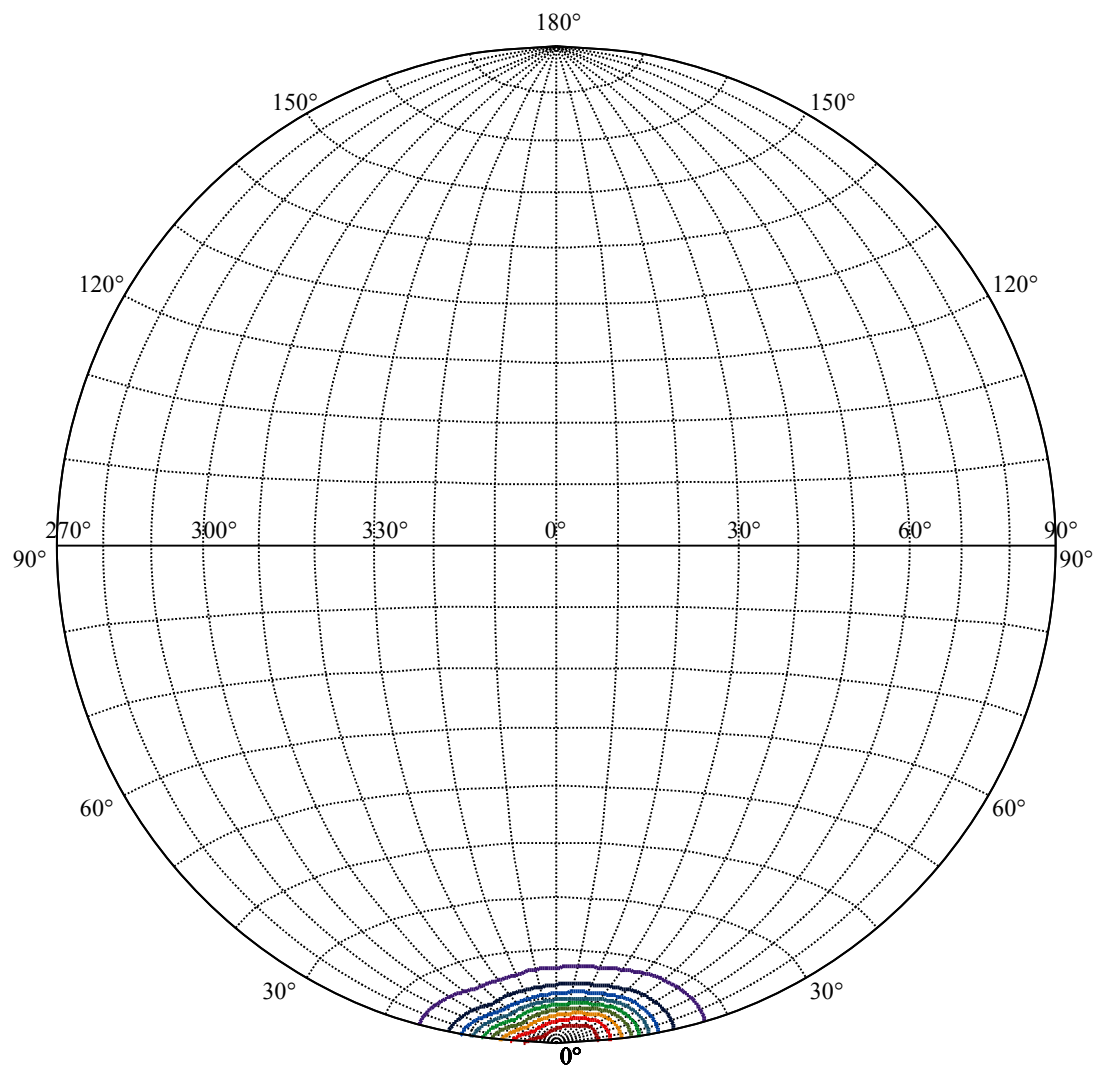


	Center Beam LUX	Beam Width	
		H	V
2m	3771.37 LUX	0.6m	0.6m
4m	942.84 LUX	1.3m	1.3m
6m	419.04 LUX	1.9m	1.9m
8m	235.71 LUX	2.6m	2.6m
10m	150.85 LUX	3.2m	3.2m
12m	104.76 LUX	3.8m	3.9m

Horiz.Spread:18.2

Vert.Spread:18.2



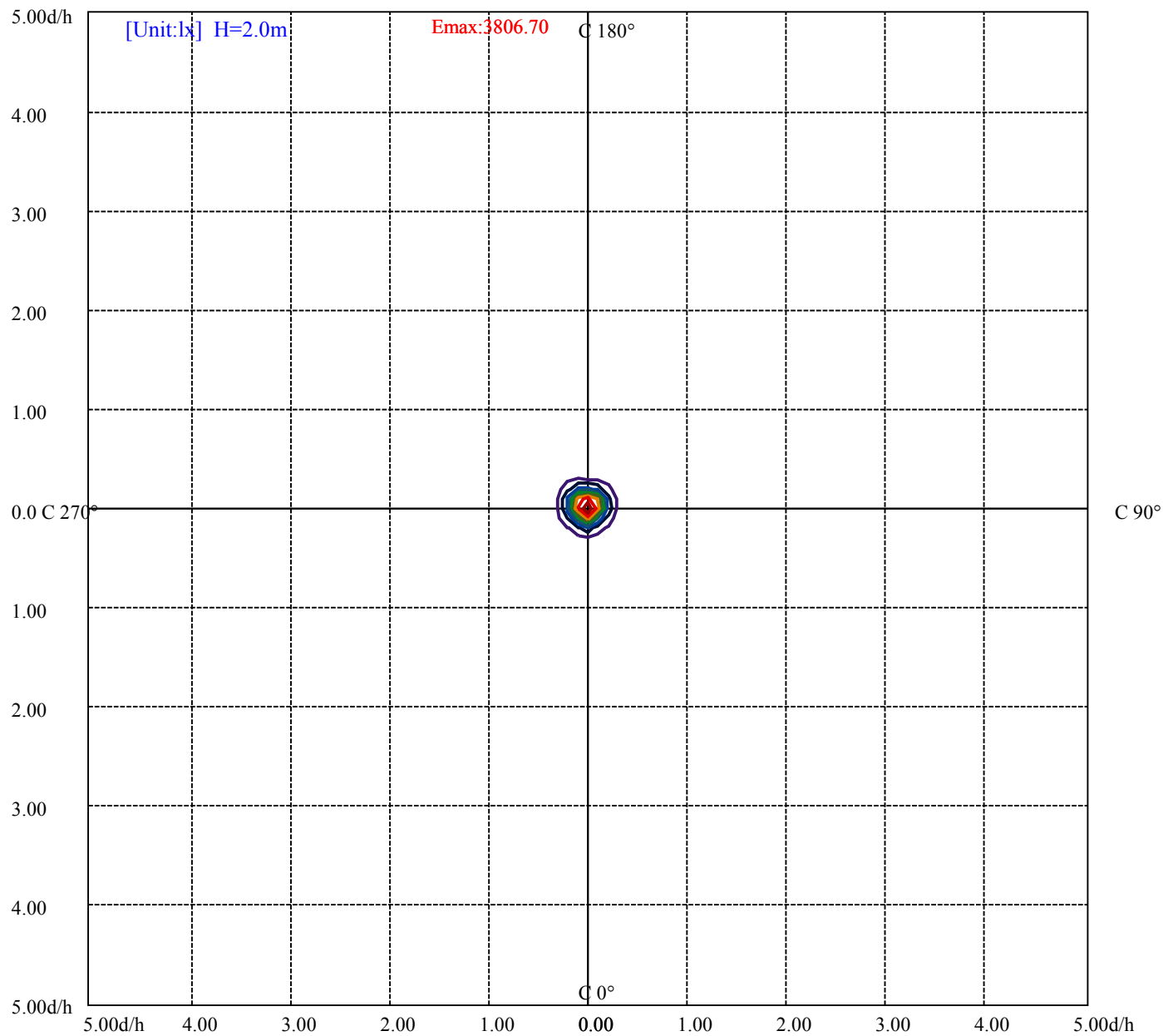


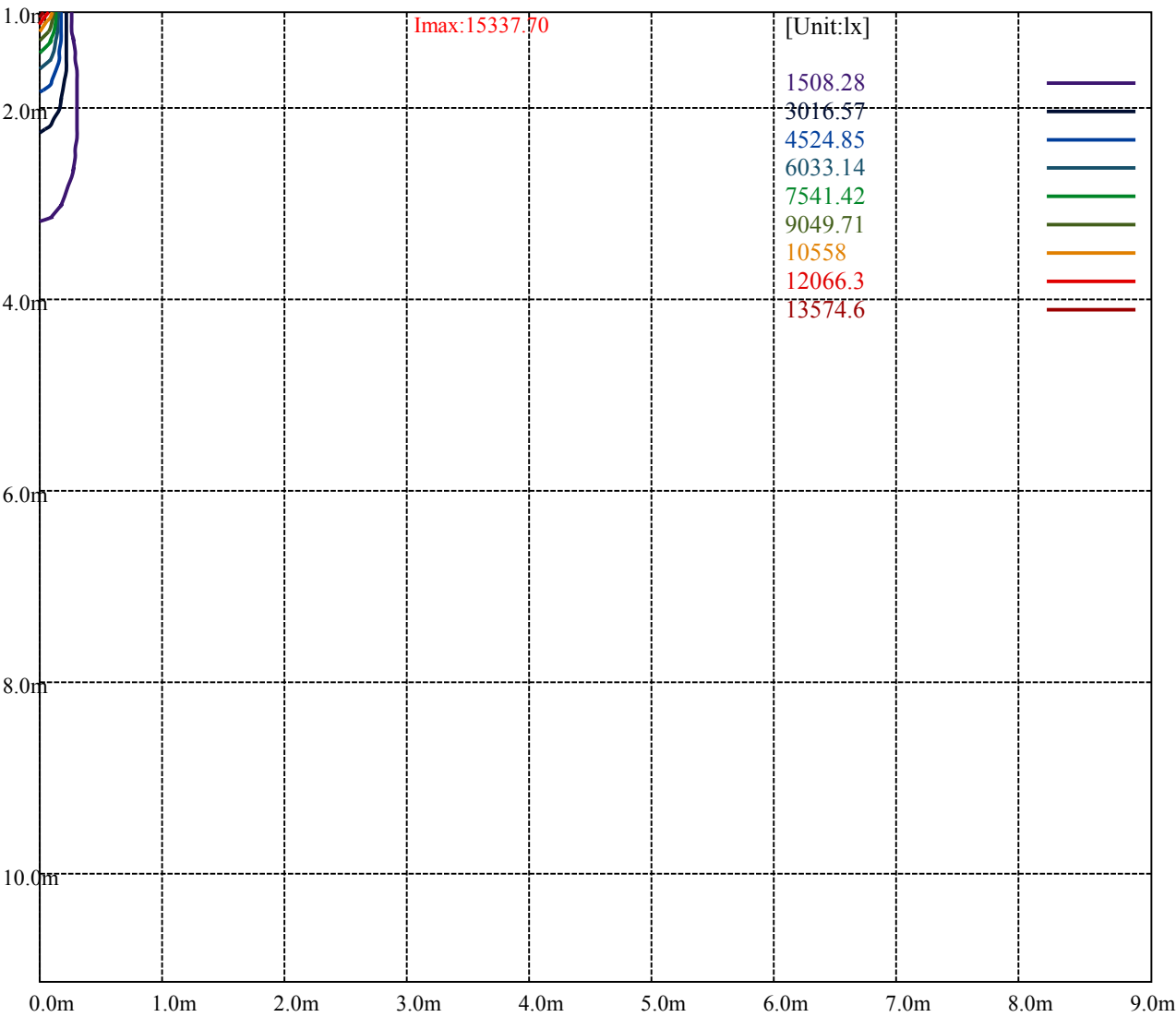
House

[Unit:cd]

Road

Imax:15337.70	
(10%Imax)	1533.68
(20%Imax)	3067.35
(30%Imax)	4601.03
(40%Imax)	6134.71
(50%Imax)	7668.38
(60%Imax)	9202.06
(70%Imax)	10735.7
(80%Imax)	12269.4
(90%Imax)	13803.1





Luminance Table

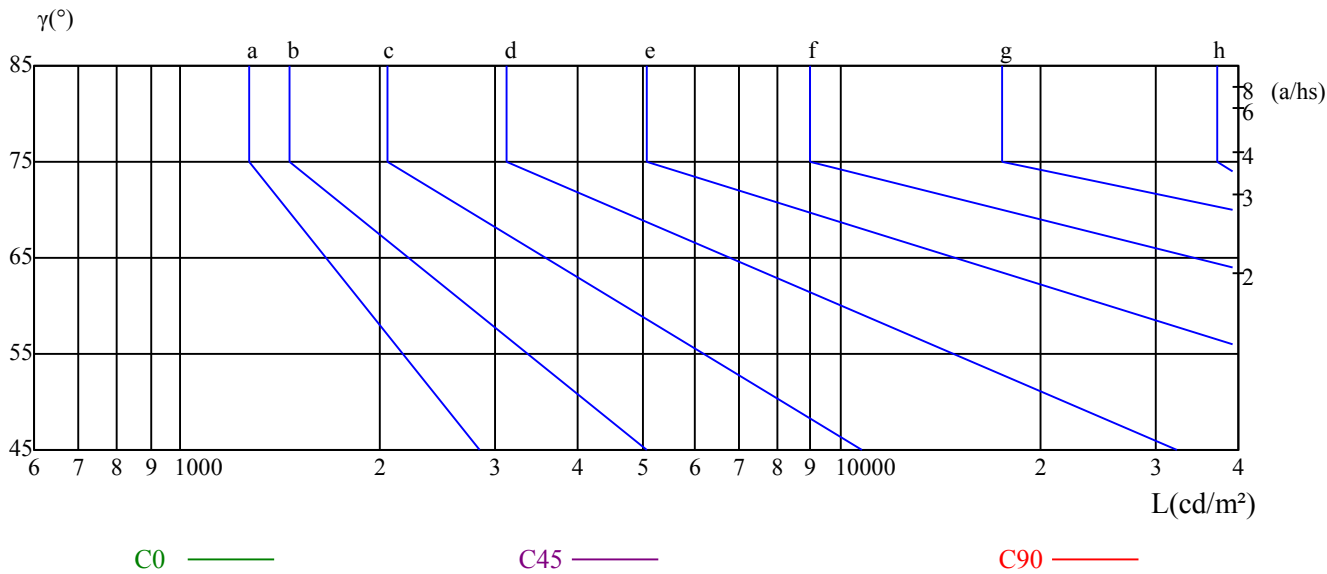
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

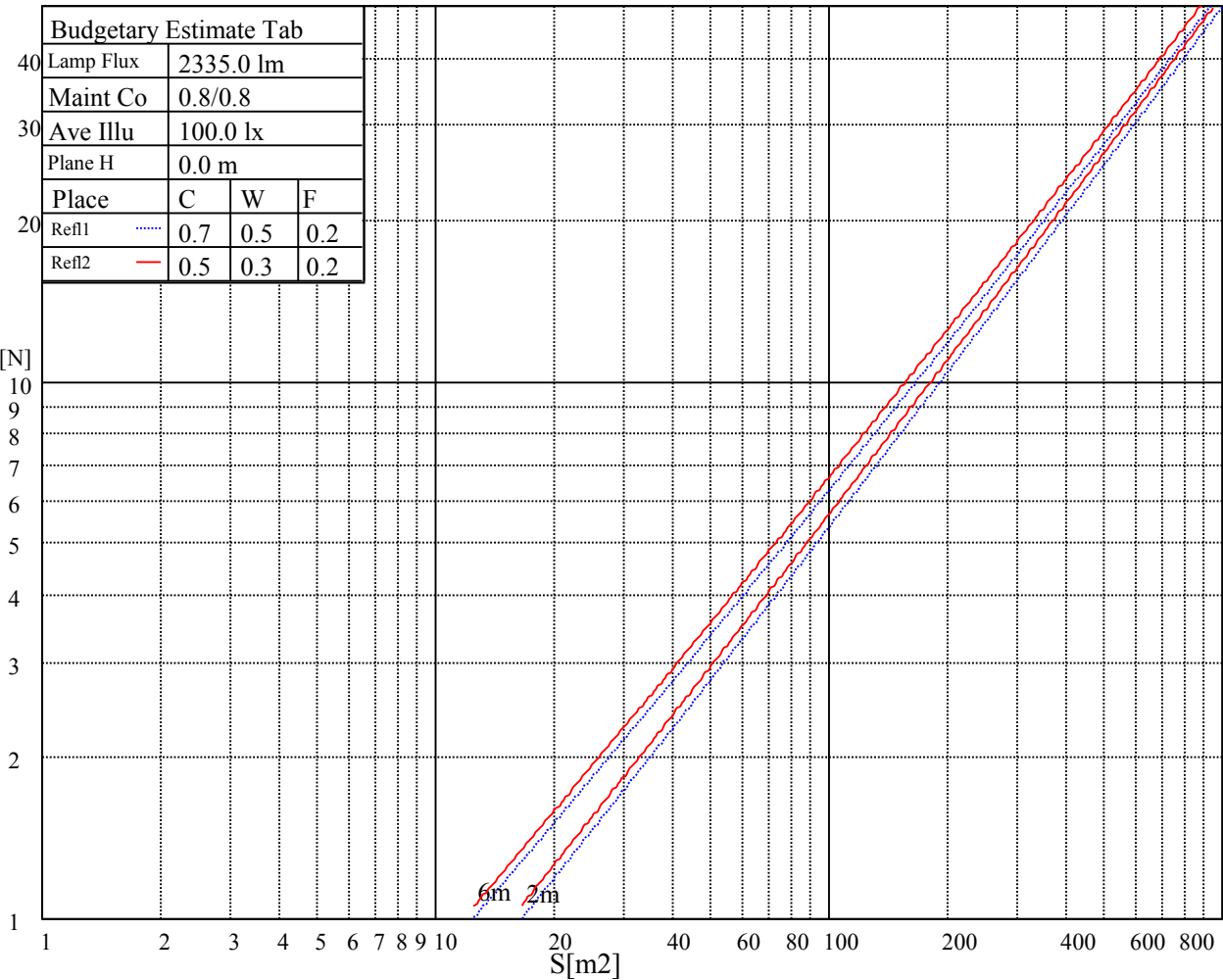
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

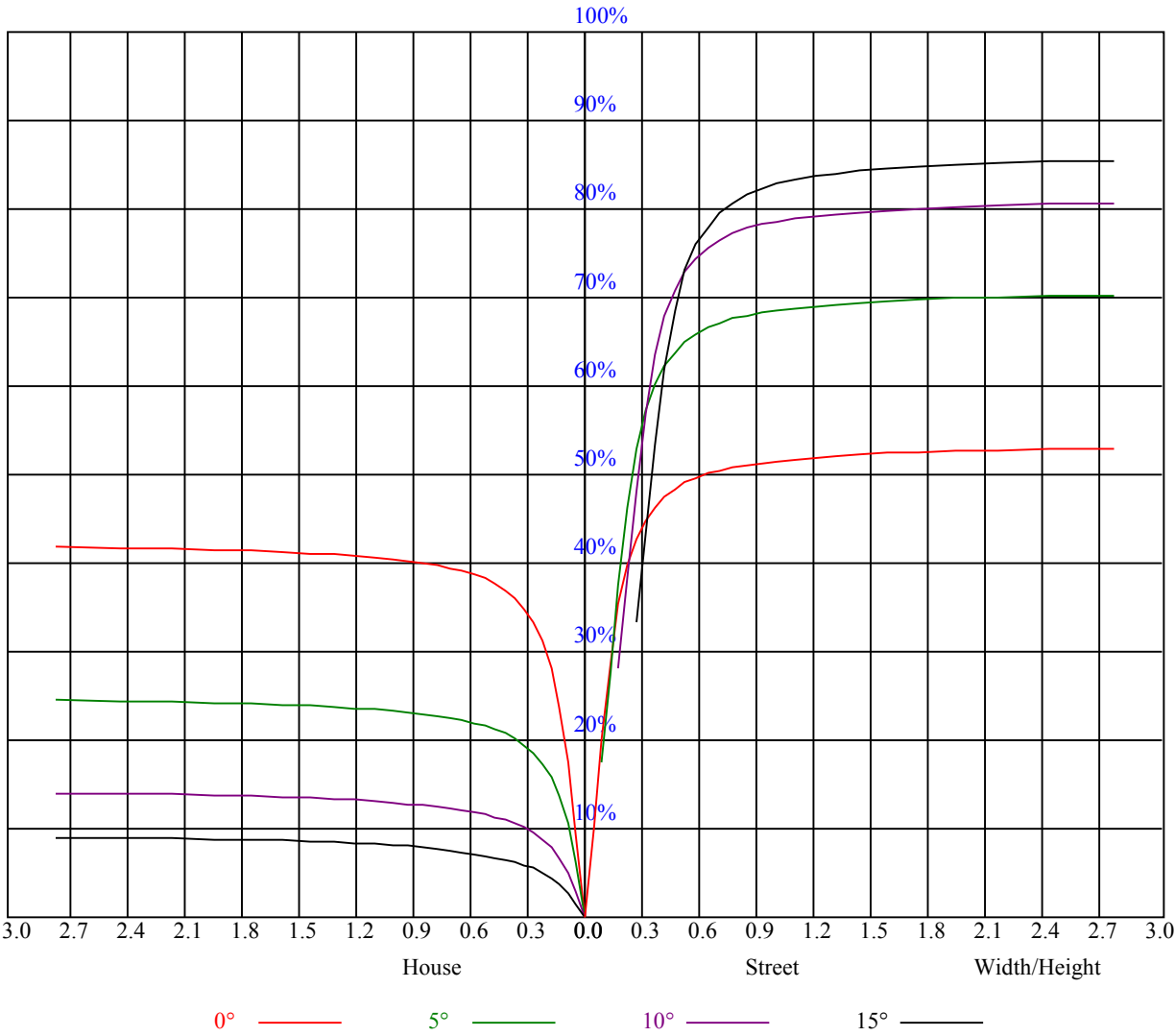


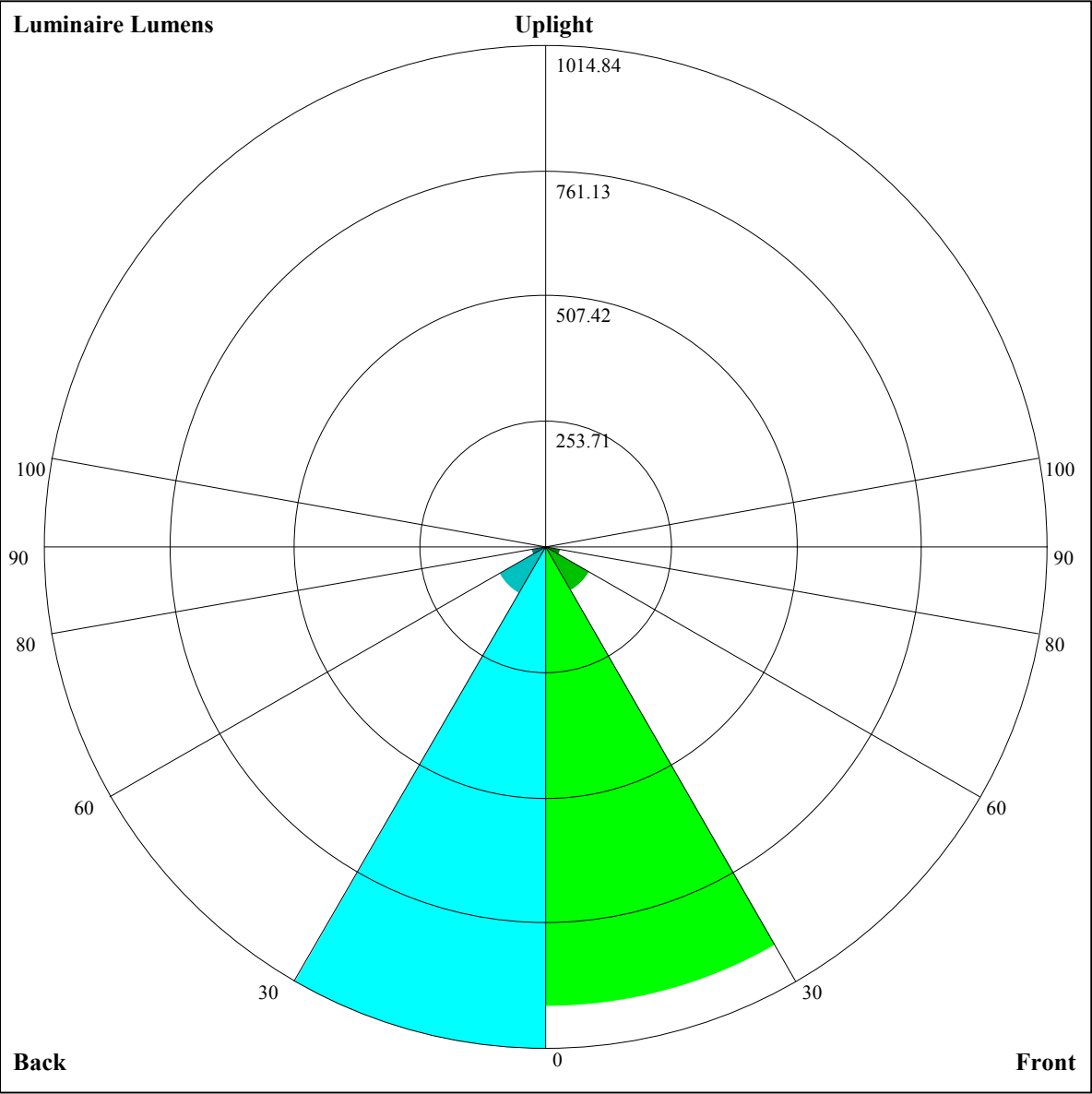
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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	
	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	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	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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.14	1.14	1.14	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.91
2	1.02	0.99	0.96	1.00	0.97	0.95	0.97	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.88
3	0.97	0.93	0.90	0.96	0.93	0.90	0.94	0.91	0.88	0.91	0.89	0.87	0.89	0.87	0.86	0.84
4	0.93	0.89	0.86	0.92	0.88	0.86	0.90	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
5	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.82	0.86	0.83	0.81	0.85	0.82	0.80	0.79
6	0.87	0.83	0.80	0.86	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.77
7	0.84	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.78	0.76	0.81	0.78	0.76	0.75
8	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.76	0.73	0.79	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
10	0.78	0.74	0.71	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.70





Luminaire Lumens:

FL=930.16,FM=102.93,FH=31.26,FVH=7.24

BL=1014.84,BM=108.71,BH=32.21,BVH=7.5

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	15085.47	14948.36	14676.66	14100.26	13442.61	12338.90	11241.12	10013.84	8712.08
45.0	15224.28	15337.70	15299.61	15060.08	14686.82	14117.19	13346.12	12100.22	10915.26
90.0	15313.15	15313.15	15127.79	14796.00	14306.78	13605.12	12460.79	11351.16	10078.17
135.0	14946.66	15247.98	15326.70	15225.97	14982.21	14575.09	13981.77	12976.24	11980.03
180.0	15085.47	15042.31	14855.25	14530.23	13892.05	13187.84	12286.43	11176.80	9628.73
225.0	15224.28	14995.75	14475.22	13870.89	13098.97	11842.91	10624.94	9297.79	7610.91
270.0	15313.15	15157.42	14764.69	14261.92	13600.89	12518.34	11408.71	10125.57	8449.70
315.0	14946.66	14529.39	13945.37	12939.00	11924.17	10723.97	9049.79	7687.09	6371.78
360.0	15085.47	14948.36	14676.66	14100.26	13442.61	12338.90	11241.12	10013.84	8712.08
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7049.75	5788.61	4665.44	3725.09	2986.18	2009.44	1642.52	1642.52	1360.33
45.0	9610.11	7908.00	6579.15	5059.02	4028.95	3207.09	2590.92	2049.22	1730.13
90.0	8721.39	7020.13	5753.91	4381.90	3500.80	2829.60	1671.30	1671.30	1609.43
135.0	10810.31	9524.62	8185.62	6563.92	5373.03	4105.97	3299.35	2673.02	2094.08
180.0	8333.74	7027.74	5806.39	4480.93	3611.67	2783.05	2292.14	1915.49	1571.00
225.0	6314.23	4868.58	3909.61	3150.39	2564.68	1647.18	1647.18	1477.81	1291.61
270.0	7109.00	5819.08	4645.97	3457.63	2761.89	2246.43	1858.78	1517.68	1322.16
315.0	5165.66	3900.30	3133.46	2554.52	1653.78	1653.78	1480.44	1291.69	1101.25
360.0	7049.75	5788.61	4665.44	3725.09	2986.18	2009.44	1642.52	1642.52	1360.33
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1189.70	1048.44	905.90	808.99	723.16	626.51	555.83	492.27	423.37
45.0	1484.67	1290.84	1098.71	973.44	867.64	774.54	672.13	601.88	521.47
90.0	1398.00	1187.16	1048.10	928.92	824.90	711.91	632.26	561.50	498.44
135.0	1759.75	1508.37	1265.45	1110.56	980.22	870.18	753.38	670.43	595.10
180.0	1361.10	1194.36	1058.08	915.89	820.25	732.22	653.51	564.63	501.15
225.0	1140.61	986.31	882.80	790.28	686.52	615.16	550.92	480.25	430.14
270.0	1165.58	1004.76	897.27	801.63	694.98	619.65	535.86	475.76	435.13
315.0	976.15	869.25	754.40	672.72	599.67	518.08	460.27	408.13	362.09
360.0	1189.70	1048.44	905.90	808.99	723.16	626.51	555.83	492.27	423.37
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	374.79	332.38	295.14	255.70	228.53	204.24	182.06	158.28	140.93
45.0	463.91	437.67	437.67	309.78	274.06	233.94	207.11	181.81	161.07
90.0	429.21	381.56	331.28	296.75	267.12	233.78	211.18	189.93	165.98
135.0	528.24	452.91	438.52	438.52	298.69	264.16	234.11	201.44	177.66
180.0	443.60	430.06	370.05	294.72	256.37	228.10	204.07	176.64	158.78
225.0	376.14	336.61	300.13	268.56	234.20	210.67	188.83	168.86	149.22
270.0	435.13	318.25	281.34	249.18	221.50	195.77	167.25	148.80	133.22
315.0	312.74	279.48	249.86	223.53	196.53	176.56	159.46	140.33	128.57
360.0	374.79	332.38	295.14	255.70	228.53	204.24	182.06	158.28	140.93
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	124.42	112.99	103.35	93.19	87.69	83.29	79.56	76.18	74.06
45.0	139.91	124.51	111.81	101.48	93.70	85.99	81.17	77.53	74.23
90.0	149.98	136.69	125.86	114.60	106.65	99.88	94.71	89.38	85.66
135.0	158.19	138.22	123.24	111.98	100.72	91.07	85.82	81.34	77.11
180.0	143.21	124.59	113.42	105.46	97.25	89.55	84.56	81.09	78.04
225.0	136.95	125.10	115.28	104.70	99.20	92.93	88.62	84.81	81.09
270.0	116.97	105.55	95.90	88.28	82.95	77.19	73.98	71.44	69.66
315.0	116.46	107.75	100.47	94.63	88.87	85.15	81.93	79.22	76.35
360.0	124.42	112.99	103.35	93.19	87.69	83.29	79.56	76.18	74.06

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	72.45	71.35	70.17	69.40	68.30	66.87	65.26	63.56	61.11
45.0	72.28	70.25	68.90	67.71	66.27	64.92	63.73	62.38	60.69
90.0	82.61	79.05	76.68	73.89	71.61	69.32	67.12	64.33	62.04
135.0	73.72	71.77	70.34	68.64	67.37	65.93	64.75	63.65	62.04
180.0	75.16	72.88	71.27	69.15	67.80	65.85	64.58	62.97	61.28
225.0	78.55	76.60	74.40	72.03	70.00	68.22	66.27	63.65	61.53
270.0	68.05	66.87	66.02	65.17	64.33	63.56	62.63	61.28	60.01
315.0	74.48	72.96	71.18	69.07	67.20	64.83	62.72	60.60	57.89
360.0	72.45	71.35	70.17	69.40	68.30	66.87	65.26	63.56	61.11
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	58.91	56.20	53.92	51.80	49.77	47.74	45.45	43.59	41.90
45.0	59.08	57.39	55.61	53.24	51.38	48.92	47.06	45.28	43.08
90.0	59.67	57.39	54.59	52.31	50.19	48.16	45.87	44.27	42.07
135.0	60.69	59.33	57.72	55.52	53.66	51.80	50.02	47.74	45.96
180.0	59.25	57.47	55.61	53.58	51.29	49.43	47.48	45.45	43.76
225.0	59.33	56.54	53.49	50.61	48.84	47.06	44.86	43.08	41.22
270.0	58.49	56.37	54.42	52.14	50.28	48.41	46.72	44.86	42.66
315.0	55.61	53.24	50.70	48.67	46.89	45.11	42.91	41.14	39.44
360.0	58.91	56.20	53.92	51.80	49.77	47.74	45.45	43.59	41.90
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	39.70	38.09	36.56	35.04	33.26	31.82	30.05	28.61	27.17
45.0	41.39	39.70	38.00	36.14	34.79	33.26	31.91	30.13	28.69
90.0	40.54	38.77	36.82	35.46	34.03	32.59	30.89	29.54	28.19
135.0	44.18	41.98	40.20	38.17	36.65	35.13	33.69	31.91	30.47
180.0	42.07	39.78	38.17	36.73	35.04	33.52	32.08	30.72	28.78
225.0	39.53	37.75	35.72	34.28	32.92	31.57	29.79	28.44	26.75
270.0	40.80	39.10	37.50	35.55	34.11	32.59	30.81	29.29	27.51
315.0	37.83	35.97	34.79	33.52	31.91	30.39	28.52	26.92	25.48
360.0	39.70	38.09	36.56	35.04	33.26	31.82	30.05	28.61	27.17
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	25.48	24.12	22.94	21.67	20.48	19.72	18.96	18.28	17.44
45.0	27.34	25.65	24.29	23.02	21.50	20.40	19.13	18.11	17.27
90.0	26.83	25.22	24.04	24.88	30.47	35.21	40.71	43.42	40.54
135.0	29.12	27.68	25.98	24.71	23.36	22.01	20.57	19.55	18.37
180.0	27.34	25.98	24.71	23.02	21.67	20.65	19.72	18.96	18.20
225.0	25.48	24.12	23.28	24.71	26.41	27.00	25.31	22.68	20.31
270.0	26.07	24.63	22.94	21.58	20.48	19.38	18.03	17.18	16.59
315.0	24.21	23.61	25.22	26.66	27.08	25.22	22.85	20.57	17.77
360.0	25.48	24.12	22.94	21.67	20.48	19.72	18.96	18.28	17.44
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	16.76	15.24	14.05	13.12	12.27	11.17	10.41	9.65	9.31
45.0	16.50	15.49	14.30	13.29	12.27	11.34	10.33	9.56	8.63
90.0	31.23	24.71	17.35	14.64	13.54	11.60	10.75	9.99	9.40
135.0	17.44	16.67	15.66	14.39	13.29	12.36	11.26	10.41	9.65
180.0	17.86	16.67	14.81	13.97	12.87	11.76	11.00	10.24	9.73
225.0	17.10	15.57	14.47	13.12	11.93	11.34	10.66	10.16	10.16
270.0	15.32	14.22	13.12	12.10	11.09	10.07	9.14	8.29	8.13
315.0	16.17	14.81	13.63	12.27	11.43	10.66	10.33	10.33	10.33
360.0	16.76	15.24	14.05	13.12	12.27	11.17	10.41	9.65	9.31

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	9.23
45.0	8.29
90.0	9.23
135.0	8.80
180.0	9.56
225.0	10.16
270.0	8.04
315.0	10.33
360.0	9.23