



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-B026

Ballast type: AC

Test No: 2024228-C026

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): 2254.37, Efficiency(%): 86.28% , Luminous Efficacy(lm/W): 117.85

Central intensity(cd): 10086.700, Maximum intensity(cd): 10086.700

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.2

[C90/270]Total=18.2

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

[C90/270]Total=52.2

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

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(%): 86.28%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.917%

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	10086.704	0.000	0	0.00%	0.00%
1.0	9953.346	9.589	9.589	0.37%	0.43%
2.0	9683.191	28.184	37.773	1.08%	1.68%
3.0	9268.998	45.327	83.1	1.73%	3.69%
4.0	8654.000	59.994	143.094	2.30%	6.35%
5.0	7947.487	71.419	214.513	2.73%	9.52%
6.0	7217.858	79.698	294.211	3.05%	13.05%
7.0	6501.543	85.156	379.367	3.26%	16.83%
8.0	5770.596	87.829	467.197	3.36%	20.72%
9.0	5105.123	88.142	555.338	3.37%	24.63%
10.0	4570.666	87.562	642.901	3.35%	28.52%
11.0	4096.341	86.601	729.502	3.31%	32.36%
12.0	3697.144	85.194	814.696	3.26%	36.14%
13.0	3300.142	83.040	897.736	3.18%	39.82%
14.0	2980.317	80.389	978.125	3.08%	43.39%
15.0	2711.040	78.133	1056.259	2.99%	46.85%
16.0	2470.440	75.923	1132.182	2.91%	50.22%
17.0	2230.351	73.204	1205.386	2.80%	53.47%
18.0	2033.569	70.303	1275.689	2.69%	56.59%
19.0	1858.879	67.721	1343.409	2.59%	59.59%
20.0	1695.016	65.046	1408.456	2.49%	62.48%
21.0	1520.532	61.745	1470.201	2.36%	65.22%
22.0	1372.316	58.133	1528.334	2.22%	67.79%
23.0	1258.636	55.204	1583.538	2.11%	70.24%
24.0	1182.689	53.376	1636.914	2.04%	72.61%
25.0	1093.881	51.764	1688.678	1.98%	74.91%
26.0	1013.719	49.750	1738.428	1.90%	77.11%
27.0	945.965	47.944	1786.373	1.83%	79.24%
28.0	878.415	46.189	1832.562	1.77%	81.29%
29.0	806.835	44.091	1876.653	1.69%	83.25%
30.0	725.577	41.375	1918.028	1.58%	85.08%
31.0	641.838	38.053	1956.081	1.46%	86.77%
32.0	559.321	34.412	1990.493	1.32%	88.29%
33.0	475.203	30.477	2020.97	1.17%	89.65%
34.0	384.200	26.008	2046.978	1.00%	90.80%
35.0	316.482	21.761	2068.739	0.83%	91.77%
36.0	263.300	18.460	2087.199	0.71%	92.58%
37.0	202.898	15.205	2102.404	0.58%	93.26%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	144.660	11.601	2114.005	0.44%	93.77%
39.0	104.565	8.507	2122.512	0.33%	94.15%
40.0	78.427	6.382	2128.894	0.24%	94.43%
41.0	68.245	5.223	2134.117	0.20%	94.67%
42.0	62.487	4.750	2138.867	0.18%	94.88%
43.0	58.896	4.496	2143.363	0.17%	95.08%
44.0	55.574	4.320	2147.683	0.17%	95.27%
45.0	52.904	4.169	2151.852	0.16%	95.45%
46.0	50.615	4.048	2155.901	0.15%	95.63%
47.0	48.581	3.945	2159.846	0.15%	95.81%
48.0	47.052	3.866	2163.712	0.15%	95.98%
49.0	45.662	3.807	2167.519	0.15%	96.15%
50.0	44.309	3.751	2171.271	0.14%	96.31%
51.0	43.343	3.708	2174.979	0.14%	96.48%
52.0	42.765	3.695	2178.674	0.14%	96.64%
53.0	42.253	3.698	2182.372	0.14%	96.81%
54.0	41.719	3.701	2186.073	0.14%	96.97%
55.0	41.222	3.702	2189.776	0.14%	97.13%
56.0	40.585	3.697	2193.472	0.14%	97.30%
57.0	39.671	3.670	2197.142	0.14%	97.46%
58.0	37.996	3.592	2200.733	0.14%	97.62%
59.0	35.611	3.441	2204.175	0.13%	97.77%
60.0	33.036	3.243	2207.418	0.12%	97.92%
61.0	30.337	3.024	2210.442	0.12%	98.05%
62.0	27.674	2.795	2213.237	0.11%	98.18%
63.0	24.667	2.546	2215.783	0.10%	98.29%
64.0	22.078	2.294	2218.077	0.09%	98.39%
65.0	19.890	2.077	2220.154	0.08%	98.48%
66.0	18.135	1.897	2222.051	0.07%	98.57%
67.0	16.876	1.760	2223.811	0.07%	98.64%
68.0	16.079	1.669	2225.481	0.06%	98.72%
69.0	15.538	1.613	2227.094	0.06%	98.79%
70.0	15.040	1.570	2228.664	0.06%	98.86%
71.0	14.631	1.534	2230.198	0.06%	98.93%
72.0	14.250	1.502	2231.699	0.06%	98.99%
73.0	13.936	1.474	2233.173	0.06%	99.06%
74.0	13.658	1.451	2234.624	0.06%	99.12%
75.0	13.350	1.427	2236.051	0.05%	99.19%

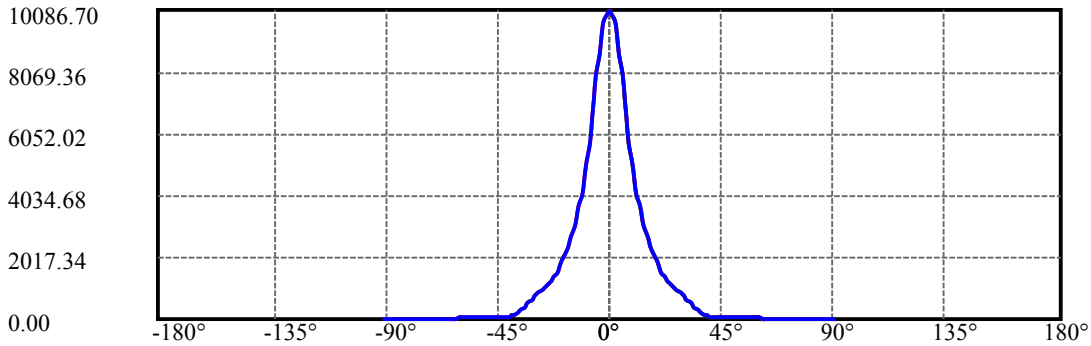
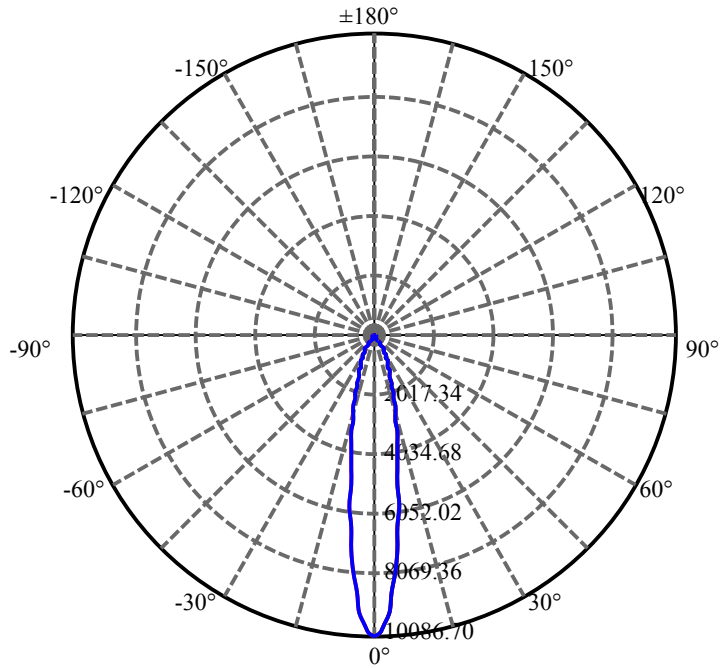
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.102	1.404	2237.455	0.05%	99.25%
77.0	12.824	1.382	2238.837	0.05%	99.31%
78.0	12.582	1.360	2240.197	0.05%	99.37%
79.0	12.275	1.336	2241.533	0.05%	99.43%
80.0	11.917	1.304	2242.837	0.05%	99.49%
81.0	11.631	1.273	2244.111	0.05%	99.54%
82.0	11.302	1.244	2245.354	0.05%	99.60%
83.0	11.002	1.212	2246.567	0.05%	99.65%
84.0	10.732	1.184	2247.751	0.05%	99.71%
85.0	10.483	1.158	2248.909	0.04%	99.76%
86.0	10.249	1.133	2250.042	0.04%	99.81%
87.0	10.029	1.110	2251.152	0.04%	99.86%
88.0	9.861	1.090	2252.241	0.04%	99.91%
89.0	9.671	1.071	2253.312	0.04%	99.95%
90.0	9.612	1.057	2254.369	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1918.03	73.40%	85.08%
0-40	2128.89	81.47%	94.43%
0-60	2207.42	84.48%	97.92%
0-90	2253.31	86.23%	99.95%
0-120	2253.31	86.23%	99.95%
0-180	2254.37	86.28%	100.00%
60-90	45.89	1.76%	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%
0-27.37	1803.50	69.02%	80.00%

ZONAL LUMEN SUMMARY

0-10	642.90
10-20	765.55
20-30	509.57
30-40	210.87
40-50	42.38
50-60	36.15
60-70	21.25
70-80	14.17
80-90	10.47
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



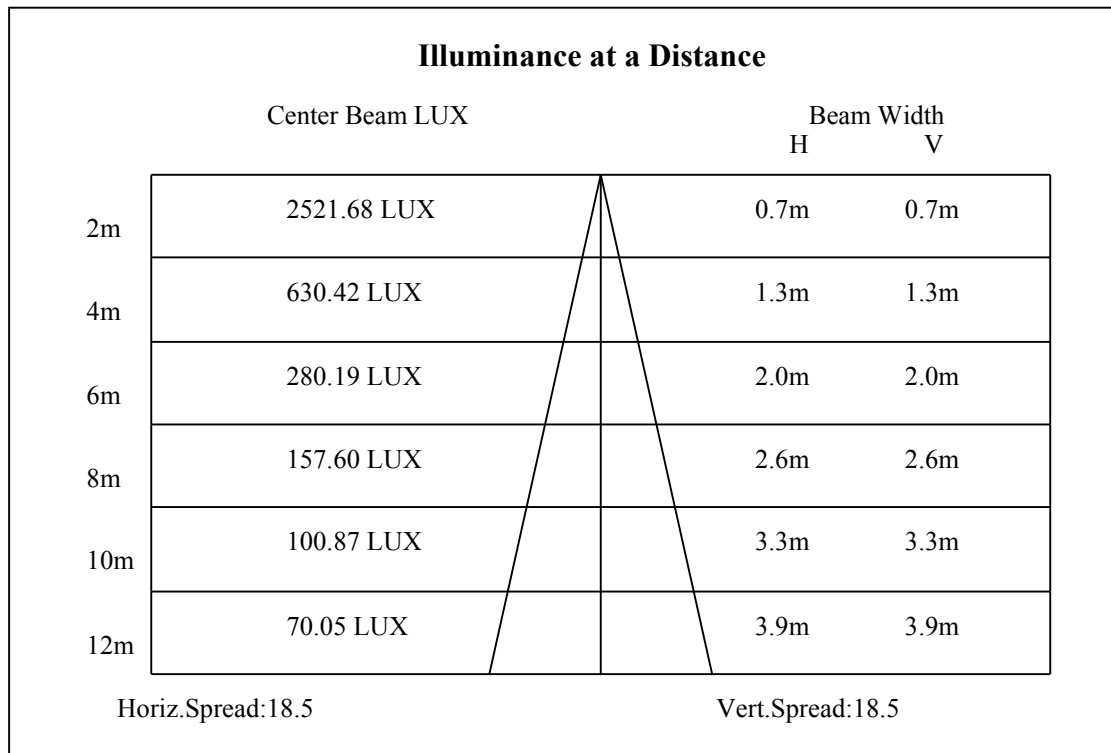
C0(Max): —————

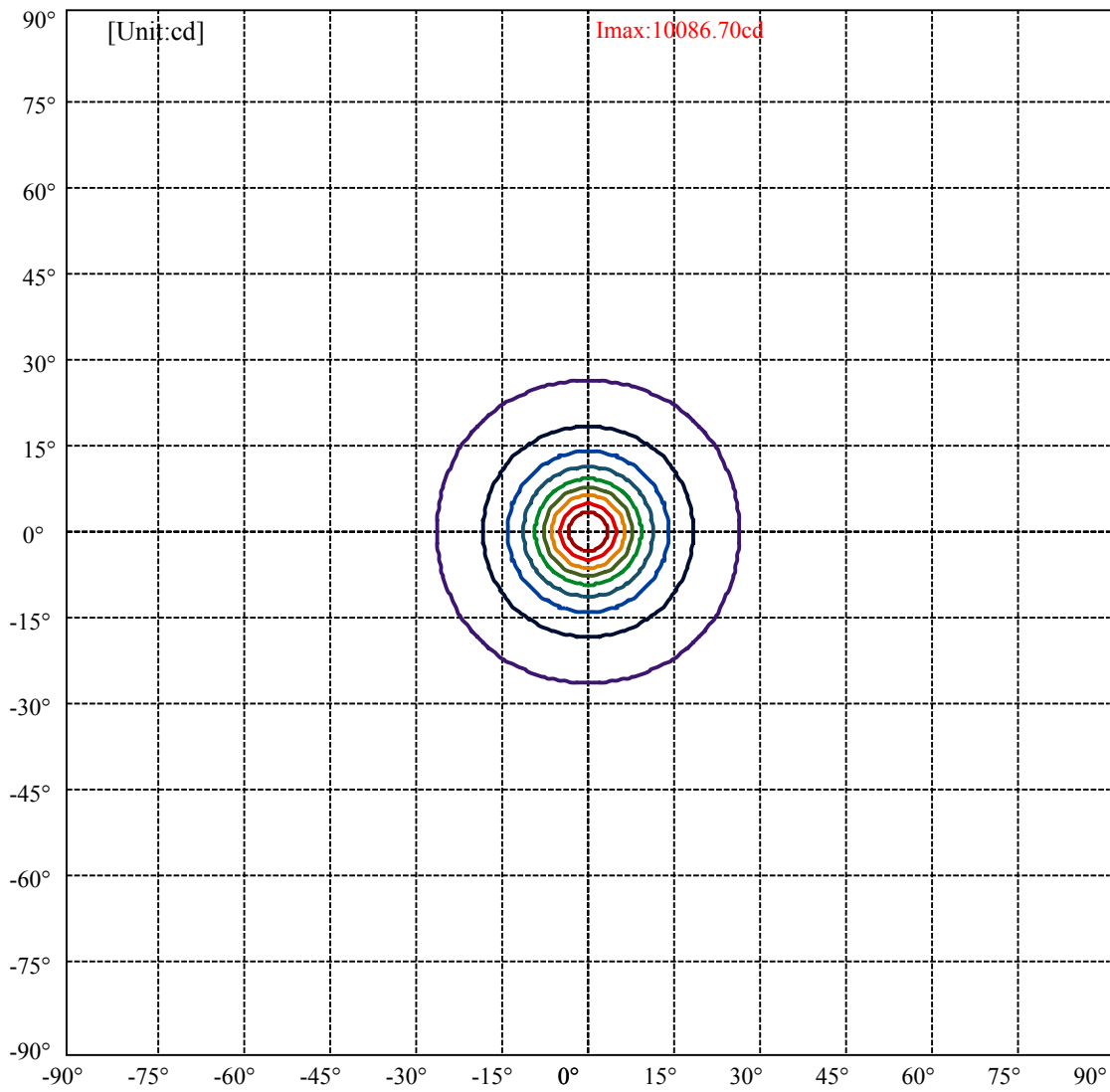
C0/C180: —————

C90/C270: —————

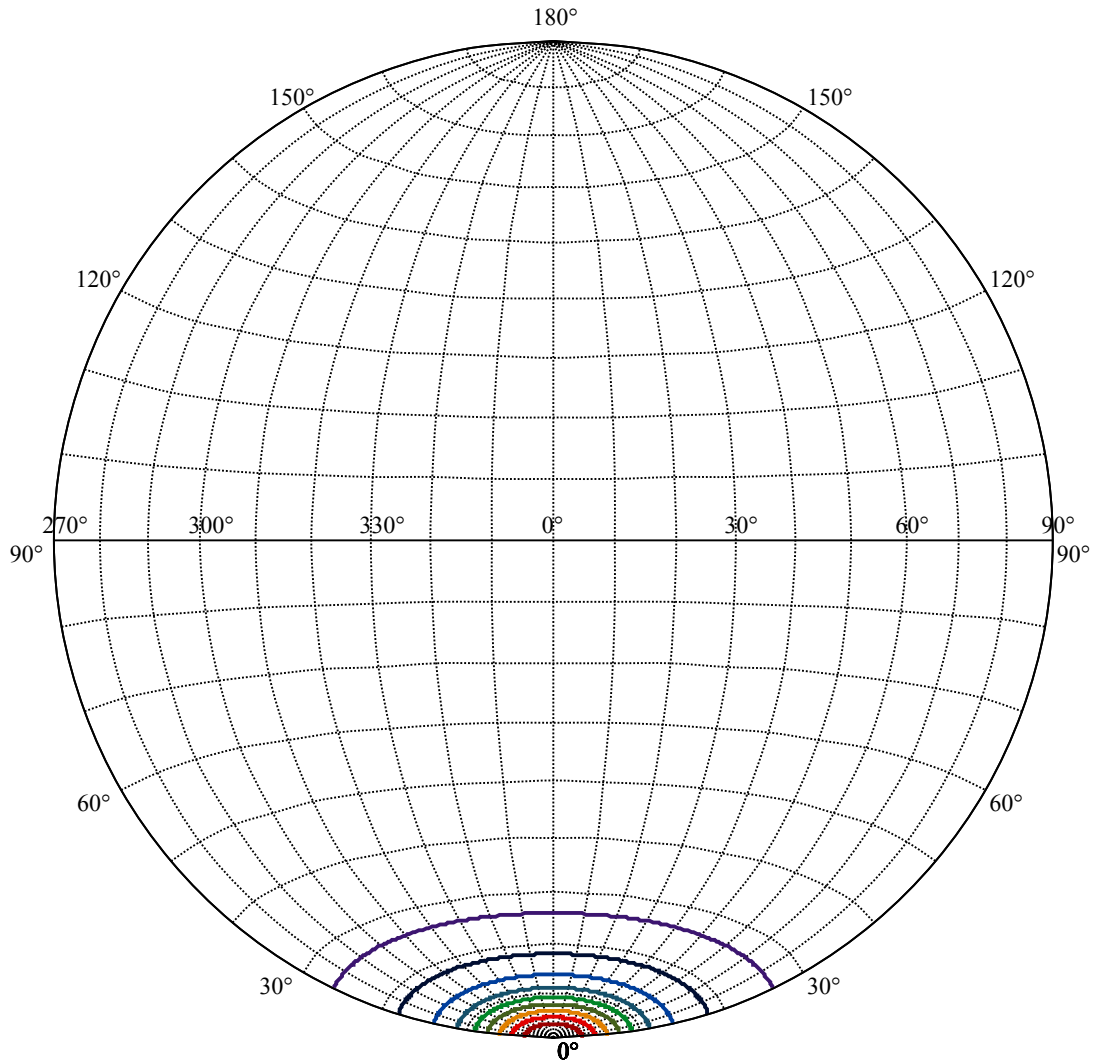
Field angle(10%Imax):C0/180Left:26.1 Right:26.1
:C90/270Left:26.1 Right:26.1

Beam Angle(50%Imax):C0/180Left:9.1 Right:9.1
:C90/270Left:9.1 Right:9.1





(10%Imax) 1008.67	—
(20%Imax) 2017.34	—
(30%Imax) 3026.01	—
(40%Imax) 4034.68	—
(50%Imax) 5043.35	—
(60%Imax) 6052.02	—
(70%Imax) 7060.69	—
(80%Imax) 8069.36	—
(90%Imax) 9078.03	—



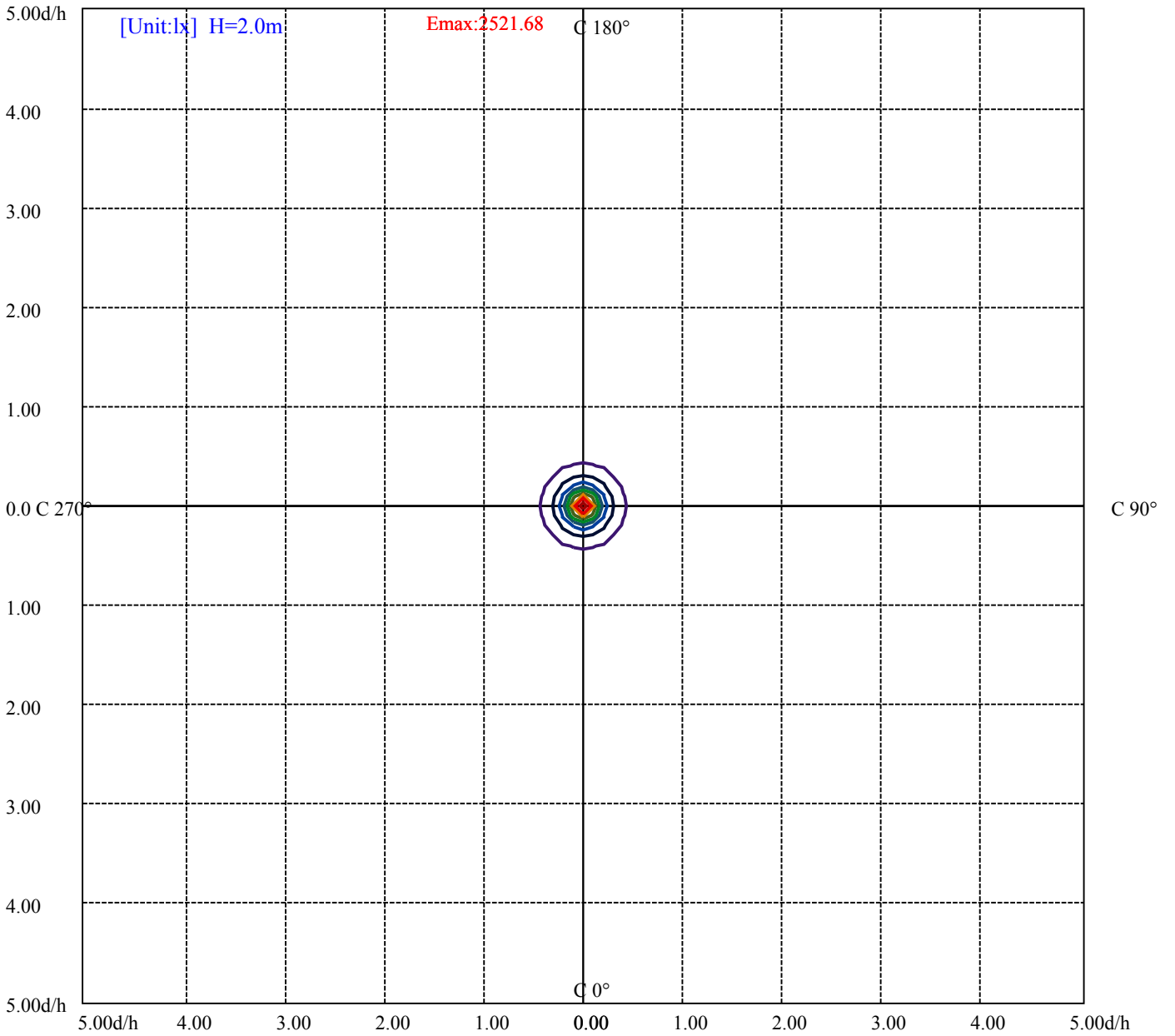
House

[Unit:cd]

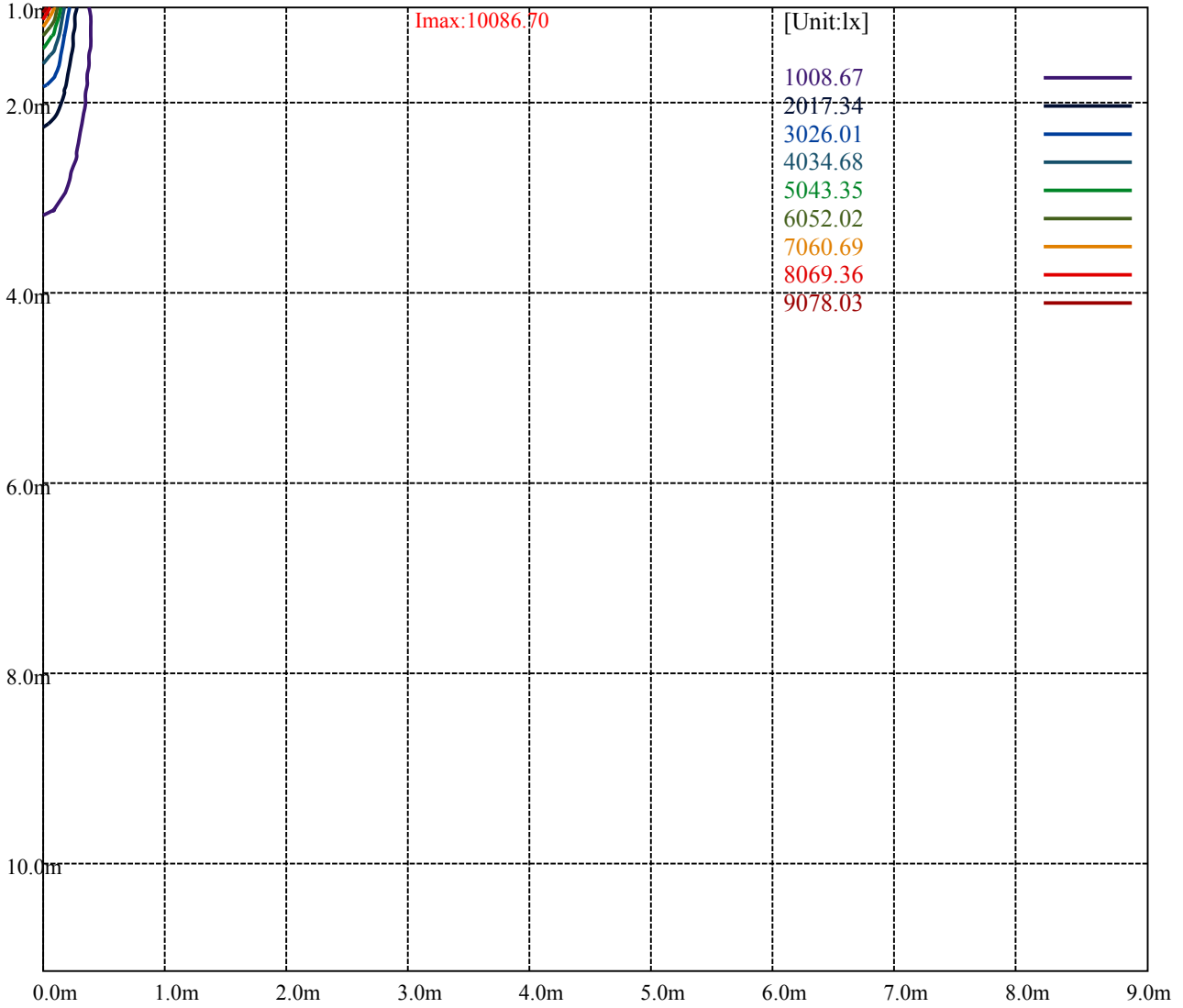
Road

Imax:10086.70

(10%Imax) 1008.67	—
(20%Imax) 2017.34	—
(30%Imax) 3026.01	—
(40%Imax) 4034.68	—
(50%Imax) 5043.35	—
(60%Imax) 6052.02	—
(70%Imax) 7060.69	—
(80%Imax) 8069.36	—
(90%Imax) 9078.03	—



- (10%Emax) 252.1675
- (20%Emax) 504.335
- (30%Emax) 756.5025
- (40%Emax) 1008.667
- (50%Emax) 1260.835
- (60%Emax) 1513.002
- (70%Emax) 1765.17
- (80%Emax) 2017.338
- (90%Emax) 2269.505



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

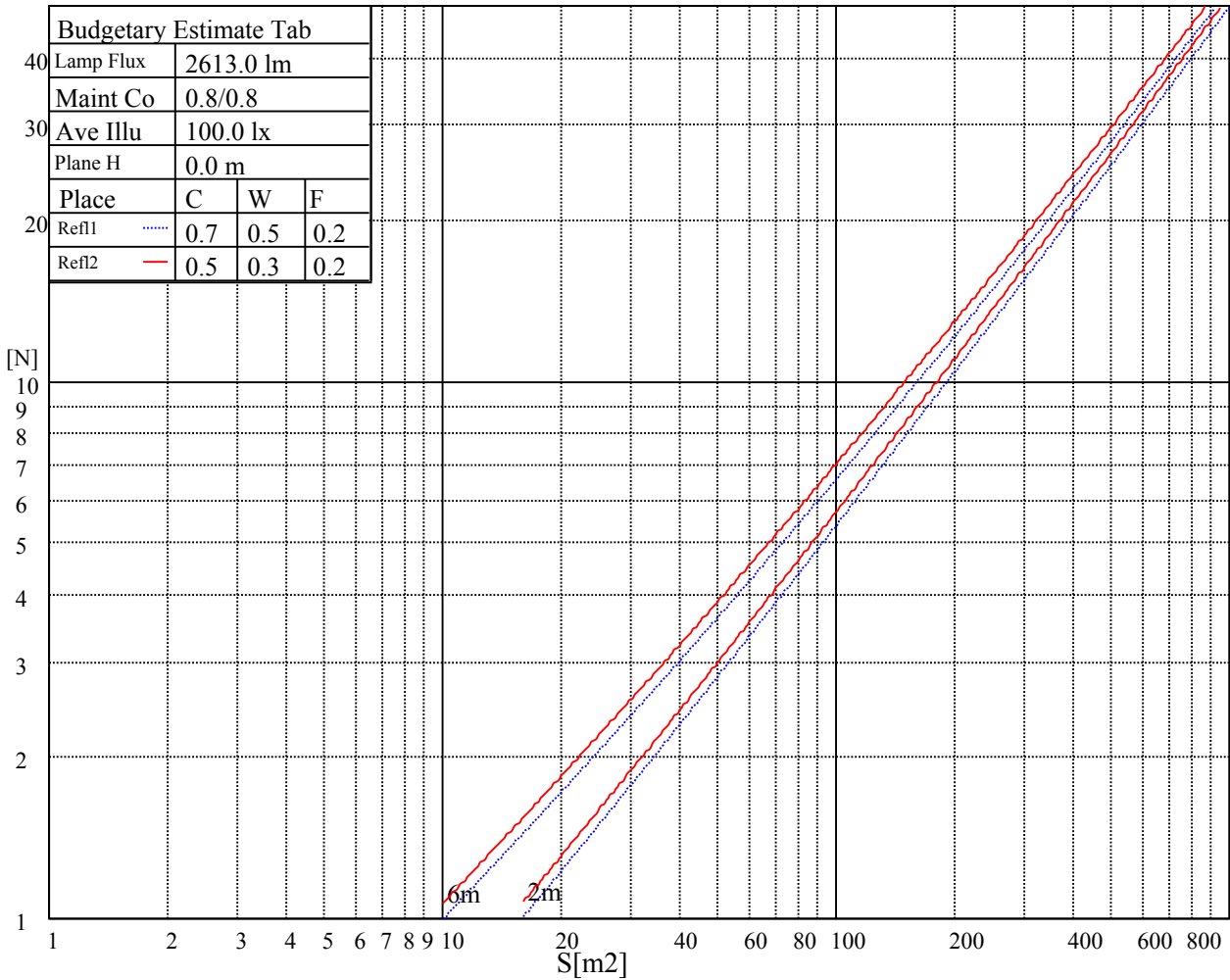
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

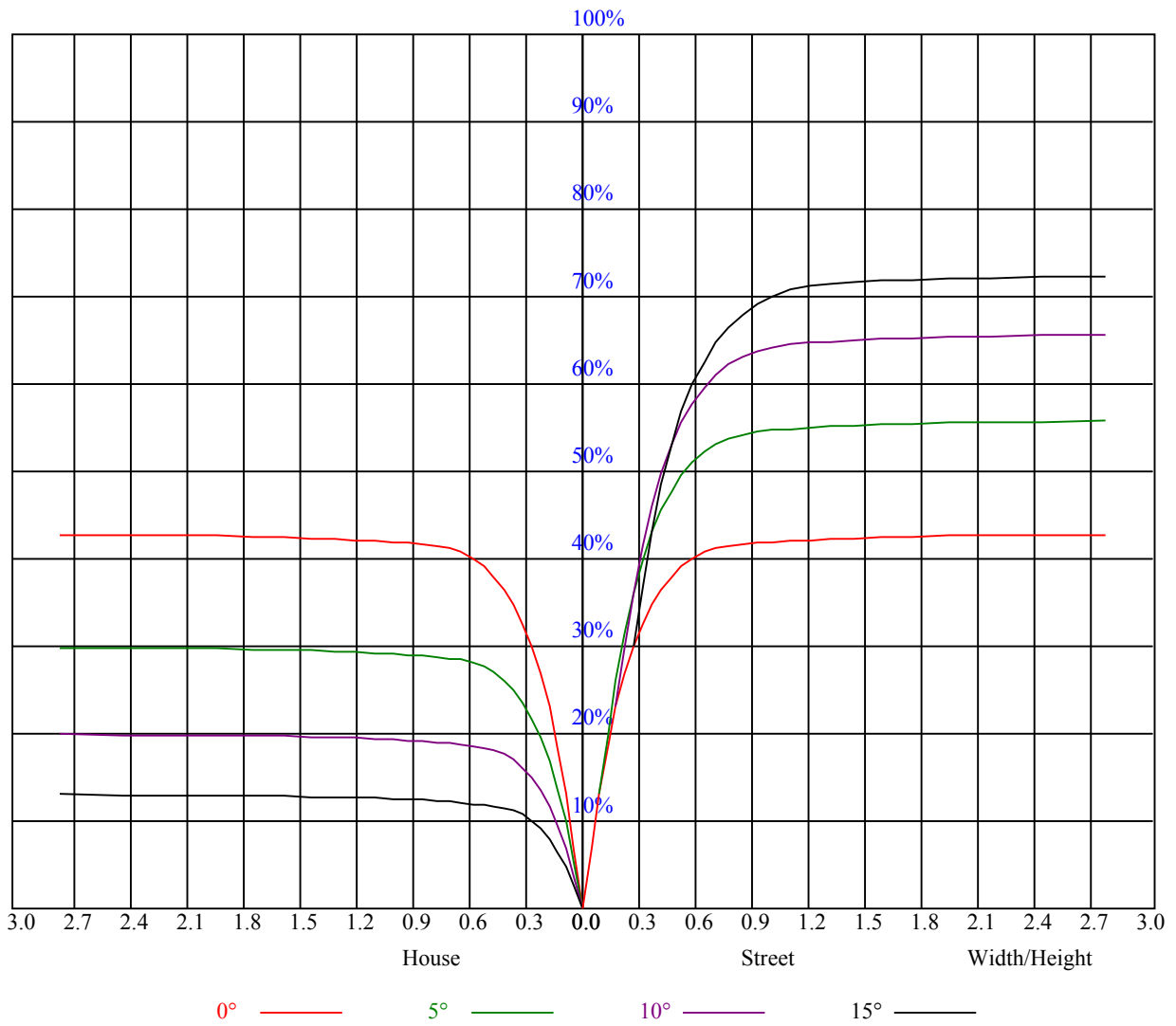


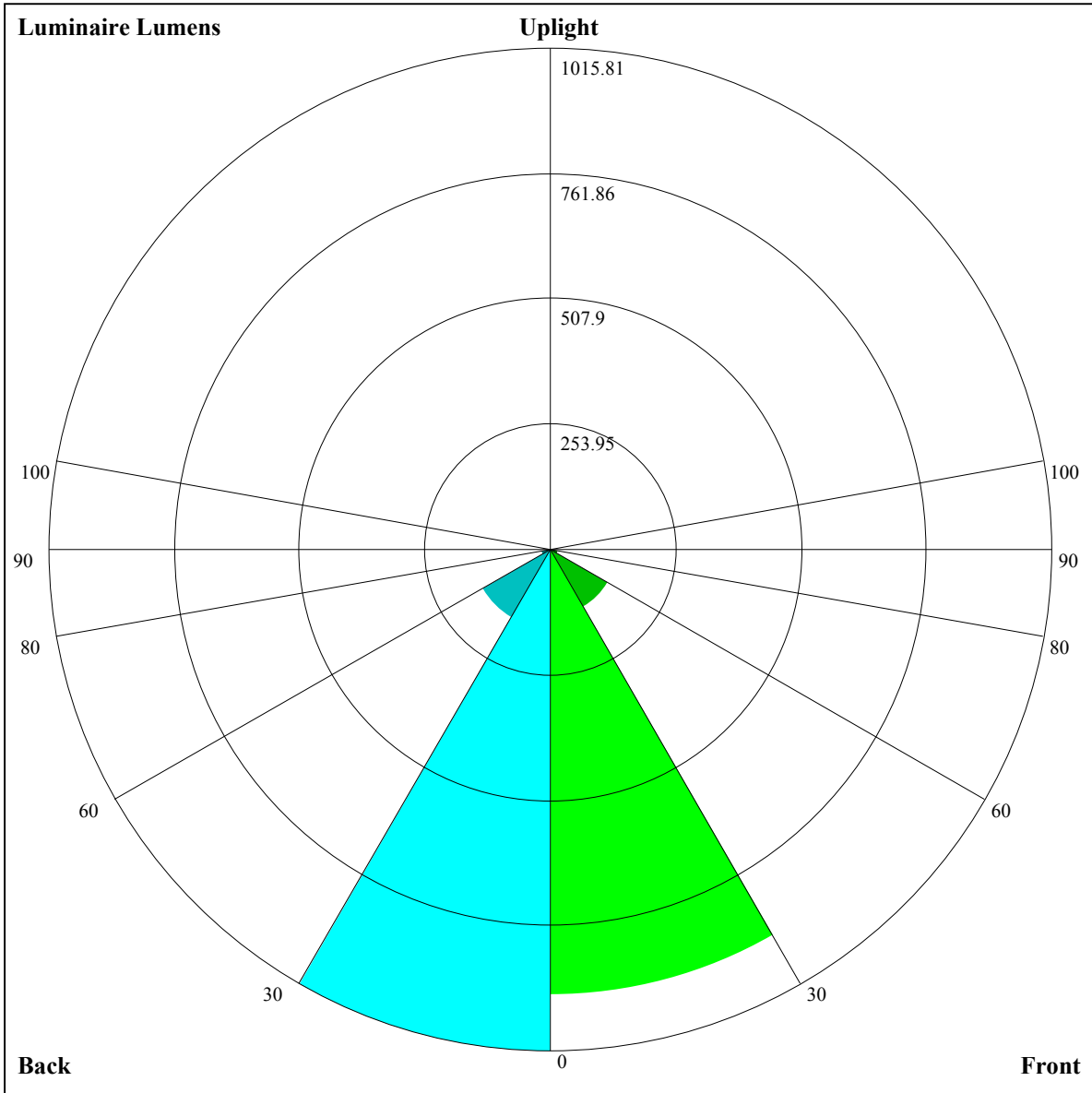
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOF=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	0.87	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	0.81	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	0.74	0.72	0.71
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	0.71	0.69	0.67
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	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	0.65	0.62	0.68	0.64	0.62	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	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	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	0.57	0.56





Luminaire Lumens:

FL=902.97,FM=133.13,FH=17.18,FVH=5.7

BL=1015.81,BM=158.4,BH=18.33,BVH=5.85

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	9782.68	9171.12	8575.36	7880.70	7124.00	6203.44	5544.48	4969.79	4467.08
45.0	10189.41	9900.31	9485.39	8956.93	8161.02	7421.88	6667.53	5958.82	5187.49
90.0	10110.41	9723.57	9276.46	8703.52	7868.99	7143.90	6405.93	5569.64	4995.54
135.0	10264.32	10228.62	10026.13	9663.88	9011.94	8358.24	7483.33	6754.73	6042.51
180.0	9782.68	10103.38	10239.16	10164.25	9902.65	9487.73	8797.16	8139.37	7221.15
225.0	10189.41	10218.09	10013.84	9670.32	9182.24	8423.79	7705.72	6933.22	6169.50
270.0	10110.41	10233.30	10167.76	9933.67	9409.31	8858.61	8214.28	7489.77	6549.31
315.0	10264.32	10048.37	9681.44	9178.73	8571.85	7682.31	6924.44	6197.01	5532.19
360.0	9782.68	9171.12	8575.36	7880.70	7124.00	6203.44	5544.48	4969.79	4467.08
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3942.72	3579.29	3180.76	2903.94	2656.98	2380.75	2177.68	1996.85	1794.94
45.0	4666.64	4220.12	3828.60	3473.37	3082.44	2812.65	2515.94	2305.26	2110.38
90.0	4386.91	3980.17	3614.41	3283.76	2924.43	2669.27	2435.18	2228.01	1999.77
135.0	5247.77	4723.99	4273.37	3885.37	3439.43	3127.50	2847.18	2596.12	2325.16
180.0	6455.68	5739.95	5113.17	4585.88	4033.43	3662.40	3325.89	3030.35	2706.14
225.0	5480.69	4764.96	4289.17	3881.27	3511.99	3115.21	2843.08	2542.86	2326.91
270.0	5848.21	5227.87	4568.32	4116.53	3614.99	3277.90	2984.71	2721.94	2433.42
315.0	4812.36	4328.97	3902.92	3447.03	3137.45	2796.85	2558.66	2342.13	2146.08
360.0	3942.72	3579.29	3180.76	2903.94	2656.98	2380.75	2177.68	1996.85	1794.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1648.05	1516.96	1396.99	1163.37	1163.37	1081.26	1016.07	960.00	888.61
45.0	1897.36	1745.20	1602.99	1444.98	1332.03	1229.62	1137.74	1041.76	979.73
90.0	1834.15	1686.09	1545.05	1304.53	1166.70	1142.59	1060.37	994.77	925.18
135.0	2134.96	1960.56	1765.68	1621.72	1488.29	1340.22	1229.62	1107.89	1031.22
180.0	2472.63	2259.03	2024.35	1864.59	1676.14	1535.69	1415.13	1275.85	1176.95
225.0	2131.45	1909.65	1752.81	1610.01	1452.59	1163.19	1163.19	1140.60	1041.17
270.0	2223.91	2029.03	1852.88	1666.78	1534.52	1411.62	1296.92	1167.58	1083.90
315.0	1926.03	1764.51	1619.38	1488.29	1164.89	1164.89	1142.48	1062.59	983.00
360.0	1648.05	1516.96	1396.99	1163.37	1163.37	1081.26	1016.07	960.00	888.61
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	823.29	731.94	652.76	571.24	466.48	383.26	304.55	218.35	160.59
45.0	920.62	858.00	764.36	685.36	605.77	504.52	423.76	327.78	309.64
90.0	864.32	792.39	714.74	618.17	536.77	456.53	379.99	289.04	225.25
135.0	968.61	911.25	828.15	752.66	671.90	591.14	491.06	409.72	334.22
180.0	1087.41	1013.67	953.98	883.16	817.03	743.29	666.63	565.97	484.04
225.0	974.63	918.34	861.16	774.84	696.83	616.24	515.47	436.69	340.72
270.0	1000.21	945.78	893.70	811.18	733.93	653.17	573.58	474.68	397.43
315.0	928.64	855.95	785.84	708.01	606.00	526.41	446.59	351.37	279.97
360.0	823.29	731.94	652.76	571.24	466.48	383.26	304.55	218.35	160.59
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	117.40	90.18	74.73	69.76	65.19	61.33	56.06	53.61	50.86
45.0	309.64	134.95	90.53	74.85	68.71	63.91	60.92	56.59	54.02
90.0	168.90	121.67	83.80	71.75	65.72	61.62	58.46	54.89	52.90
135.0	299.11	299.11	129.92	88.54	74.21	69.29	64.14	60.98	58.17
180.0	400.94	303.79	303.79	220.16	112.07	83.04	67.30	63.09	59.46
225.0	271.31	207.64	140.04	98.43	74.85	64.84	61.10	57.47	54.48
270.0	324.27	306.72	228.53	130.21	94.40	73.91	69.06	65.43	60.63
315.0	214.84	159.12	105.93	82.81	72.28	68.00	62.85	59.11	54.07
360.0	117.40	90.18	74.73	69.76	65.19	61.33	56.06	53.61	50.86

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	48.63	46.70	45.24	43.95	42.96	42.49	41.73	41.32	41.26
45.0	52.09	50.10	48.28	46.88	45.47	44.13	43.54	43.31	42.60
90.0	51.09	48.87	46.41	45.35	44.59	43.48	42.72	42.02	41.84
135.0	55.36	52.26	50.56	48.92	47.23	45.30	44.13	43.54	42.84
180.0	56.83	53.55	51.62	49.80	47.93	45.82	44.65	43.66	42.49
225.0	51.56	49.51	47.58	46.12	44.42	43.37	42.02	41.43	41.32
270.0	55.71	53.90	51.32	48.98	47.52	46.23	45.06	44.30	43.77
315.0	51.97	50.04	47.64	46.41	45.18	43.66	42.90	42.55	41.90
360.0	48.63	46.70	45.24	43.95	42.96	42.49	41.73	41.32	41.26
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.85	39.91	38.33	36.23	33.36	30.14	28.15	24.40	21.65
45.0	42.08	41.84	41.08	40.44	38.27	35.23	32.13	30.02	26.57
90.0	41.90	41.26	40.15	38.62	36.34	32.60	29.96	27.68	24.87
135.0	42.14	41.79	41.38	40.56	39.09	37.10	34.29	31.13	28.97
180.0	42.02	41.32	40.97	40.85	40.32	39.39	37.81	35.99	33.42
225.0	40.56	39.91	39.85	39.33	38.62	36.81	34.18	31.54	28.91
270.0	42.84	42.49	42.31	41.90	40.67	38.98	36.17	33.12	30.61
315.0	41.38	41.26	40.61	39.44	37.28	34.65	31.60	28.79	26.39
360.0	40.85	39.91	38.33	36.23	33.36	30.14	28.15	24.40	21.65
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.61	17.67	16.80	16.27	15.57	15.16	14.75	14.40	14.05
45.0	23.58	21.07	18.61	17.38	16.62	15.92	15.45	14.98	14.51
90.0	21.30	19.20	17.62	16.56	15.86	15.39	14.92	14.46	14.16
135.0	25.93	22.82	20.54	18.20	16.97	16.33	15.80	15.22	14.81
180.0	29.90	28.03	25.16	22.00	19.37	17.62	16.62	15.86	15.39
225.0	26.04	23.29	20.60	18.08	16.74	15.86	15.33	14.92	14.51
270.0	27.92	24.64	21.59	19.55	17.56	16.68	16.15	15.63	15.10
315.0	23.06	19.90	18.20	17.03	16.33	15.68	15.27	14.86	14.51
360.0	19.61	17.67	16.80	16.27	15.57	15.16	14.75	14.40	14.05
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.69	13.46	13.23	12.87	12.58	12.29	11.94	11.65	11.24
45.0	14.22	13.93	13.64	13.28	13.05	12.76	12.52	12.11	11.76
90.0	13.87	13.52	13.23	13.05	12.76	12.52	12.23	11.88	11.53
135.0	14.34	14.05	13.81	13.46	13.23	12.99	12.76	12.41	12.11
180.0	14.86	14.57	14.22	13.87	13.64	13.34	13.17	12.93	12.58
225.0	14.16	13.81	13.58	13.34	13.05	12.82	12.64	12.35	12.00
270.0	14.75	14.40	13.99	13.69	13.46	13.17	12.93	12.70	12.29
315.0	14.10	13.75	13.58	13.23	13.05	12.70	12.47	12.17	11.82
360.0	13.69	13.46	13.23	12.87	12.58	12.29	11.94	11.65	11.24
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.94	10.71	10.42	10.24	10.07	9.83	9.66	9.60	9.60
45.0	11.41	11.12	10.77	10.53	10.30	10.12	9.89	9.71	9.54
90.0	11.29	10.94	10.65	10.36	10.24	10.01	9.83	9.66	9.54
135.0	11.82	11.47	11.12	10.83	10.53	10.30	10.12	9.89	9.71
180.0	12.29	11.94	11.65	11.29	11.00	10.71	10.42	10.24	9.95
225.0	11.76	11.41	11.12	10.89	10.65	10.36	10.12	9.95	9.71
270.0	12.00	11.65	11.35	11.06	10.71	10.48	10.24	10.07	9.77
315.0	11.53	11.18	10.94	10.65	10.36	10.18	9.95	9.77	9.54
360.0	10.94	10.71	10.42	10.24	10.07	9.83	9.66	9.60	9.60

Intensity data(cd)

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