



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: 3-2834-L

Luminaire: 92.70.412.00

Report No: 2024228-B007

Ballast type: AC

Test No: 2024228-C007

Voltage(V): 0.000

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.000

Lamp flux(lm): 2613.0

Power (W): 0.000

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2214.60, Efficiency(%): 84.75% , Luminous Efficacy(lm/W): 0.00

Central intensity(cd): 5129.410, Maximum intensity(cd): 5129.410

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=35.2

[C90/270]Total=35.2

Field angle(10%Imax): [C0/180]Total=65.0

[C90/270]Total=65.0

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.58 C90_270=0.58

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.75%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.934%

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	5129.409	0.000	0	0.00%	0.00%
1.0	5118.656	4.904	4.904	0.19%	0.22%
2.0	5091.589	14.655	19.558	0.56%	0.88%
3.0	5051.062	24.258	43.816	0.93%	1.98%
4.0	4991.443	33.615	77.432	1.29%	3.50%
5.0	4915.802	42.620	120.052	1.63%	5.42%
6.0	4828.750	51.210	171.262	1.96%	7.73%
7.0	4722.532	59.285	230.547	2.27%	10.41%
8.0	4597.879	66.704	297.251	2.55%	13.42%
9.0	4439.575	73.244	370.495	2.80%	16.73%
10.0	4261.082	78.738	449.233	3.01%	20.29%
11.0	4067.372	83.218	532.451	3.18%	24.04%
12.0	3861.885	86.678	619.129	3.32%	27.96%
13.0	3617.993	88.767	707.897	3.40%	31.97%
14.0	3388.950	89.688	797.585	3.43%	36.01%
15.0	3164.882	89.974	887.559	3.44%	40.08%
16.0	2934.304	89.370	976.929	3.42%	44.11%
17.0	2688.728	87.566	1064.495	3.35%	48.07%
18.0	2477.243	85.176	1149.67	3.26%	51.91%
19.0	2273.511	82.653	1232.324	3.16%	55.65%
20.0	2060.636	79.327	1311.651	3.04%	59.23%
21.0	1870.291	75.482	1387.132	2.89%	62.64%
22.0	1693.846	71.623	1458.755	2.74%	65.87%
23.0	1528.593	67.615	1526.371	2.59%	68.92%
24.0	1376.581	63.518	1589.888	2.43%	71.79%
25.0	1244.481	59.597	1649.485	2.28%	74.48%
26.0	1151.906	56.567	1706.052	2.16%	77.04%
27.0	1050.625	53.885	1759.938	2.06%	79.47%
28.0	958.247	50.860	1810.798	1.95%	81.77%
29.0	868.115	47.783	1858.581	1.83%	83.92%
30.0	766.703	44.140	1902.721	1.69%	85.92%
31.0	662.292	39.767	1942.488	1.52%	87.71%
32.0	563.674	35.122	1977.61	1.34%	89.30%
33.0	455.737	30.032	2007.642	1.15%	90.66%
34.0	352.035	24.446	2032.088	0.94%	91.76%
35.0	277.762	19.559	2051.647	0.75%	92.64%
36.0	207.974	15.466	2067.113	0.59%	93.34%
37.0	155.962	11.870	2078.983	0.45%	93.88%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	116.431	9.092	2088.075	0.35%	94.29%
39.0	82.049	6.775	2094.849	0.26%	94.59%
40.0	73.431	5.423	2100.272	0.21%	94.84%
41.0	67.125	5.005	2105.277	0.19%	95.06%
42.0	62.136	4.696	2109.973	0.18%	95.28%
43.0	57.871	4.445	2114.419	0.17%	95.48%
44.0	54.097	4.226	2118.645	0.16%	95.67%
45.0	50.776	4.030	2122.675	0.15%	95.85%
46.0	47.813	3.856	2126.531	0.15%	96.02%
47.0	45.172	3.698	2130.229	0.14%	96.19%
48.0	42.934	3.562	2133.791	0.14%	96.35%
49.0	40.856	3.441	2137.232	0.13%	96.51%
50.0	38.998	3.329	2140.561	0.13%	96.66%
51.0	37.242	3.226	2143.787	0.12%	96.80%
52.0	35.743	3.132	2146.918	0.12%	96.94%
53.0	34.309	3.047	2149.966	0.12%	97.08%
54.0	32.890	2.962	2152.927	0.11%	97.22%
55.0	31.529	2.876	2155.803	0.11%	97.35%
56.0	30.190	2.789	2158.592	0.11%	97.47%
57.0	28.903	2.702	2161.294	0.10%	97.59%
58.0	27.579	2.612	2163.906	0.10%	97.71%
59.0	26.291	2.518	2166.424	0.10%	97.82%
60.0	24.996	2.423	2168.847	0.09%	97.93%
61.0	23.870	2.332	2171.179	0.09%	98.04%
62.0	22.765	2.247	2173.426	0.09%	98.14%
63.0	21.705	2.163	2175.589	0.08%	98.24%
64.0	20.702	2.081	2177.67	0.08%	98.33%
65.0	19.846	2.007	2179.677	0.08%	98.42%
66.0	19.020	1.939	2181.616	0.07%	98.51%
67.0	18.193	1.871	2183.487	0.07%	98.60%
68.0	17.484	1.807	2185.294	0.07%	98.68%
69.0	16.818	1.750	2187.044	0.07%	98.76%
70.0	16.152	1.693	2188.737	0.06%	98.83%
71.0	15.530	1.638	2190.375	0.06%	98.91%
72.0	14.967	1.586	2191.961	0.06%	98.98%
73.0	14.448	1.538	2193.499	0.06%	99.05%
74.0	13.965	1.494	2194.993	0.06%	99.11%
75.0	13.489	1.451	2196.443	0.06%	99.18%

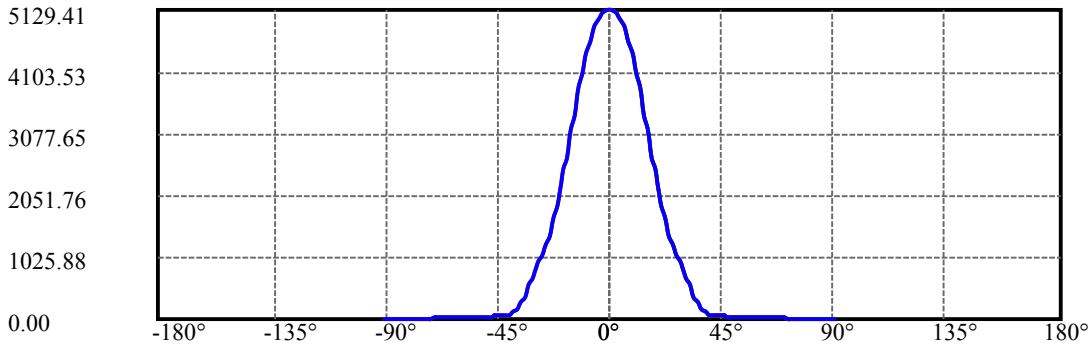
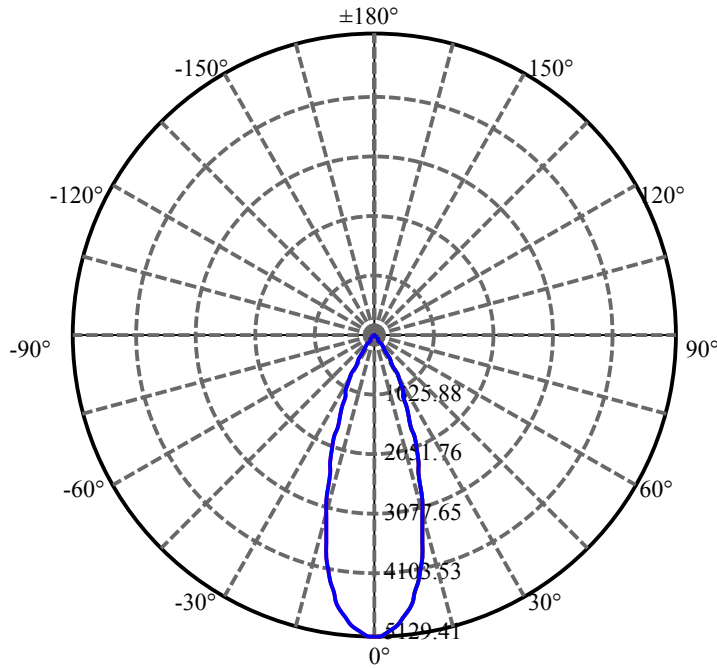
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.072	1.410	2197.853	0.05%	99.24%
77.0	12.692	1.374	2199.227	0.05%	99.31%
78.0	12.363	1.341	2200.568	0.05%	99.37%
79.0	12.048	1.312	2201.88	0.05%	99.43%
80.0	11.726	1.282	2203.162	0.05%	99.48%
81.0	11.427	1.252	2204.414	0.05%	99.54%
82.0	11.149	1.224	2205.638	0.05%	99.60%
83.0	10.885	1.198	2206.836	0.05%	99.65%
84.0	10.651	1.173	2208.009	0.04%	99.70%
85.0	10.380	1.148	2209.157	0.04%	99.75%
86.0	10.176	1.124	2210.28	0.04%	99.81%
87.0	9.971	1.103	2211.383	0.04%	99.85%
88.0	9.839	1.085	2212.468	0.04%	99.90%
89.0	9.685	1.070	2213.538	0.04%	99.95%
90.0	9.612	1.058	2214.596	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1902.72	72.82%	85.92%
0-40	2100.27	80.38%	94.84%
0-60	2168.85	83.00%	97.93%
0-90	2213.54	84.71%	99.95%
0-120	2213.54	84.71%	99.95%
0-180	2214.60	84.75%	100.00%
60-90	44.69	1.71%	2.02%
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	1771.68	67.80%	80.00%

ZONAL LUMEN SUMMARY

0-10	449.23
10-20	862.42
20-30	591.07
30-40	197.55
40-50	40.29
50-60	28.29
60-70	19.89
70-80	14.42
80-90	10.38
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: —————

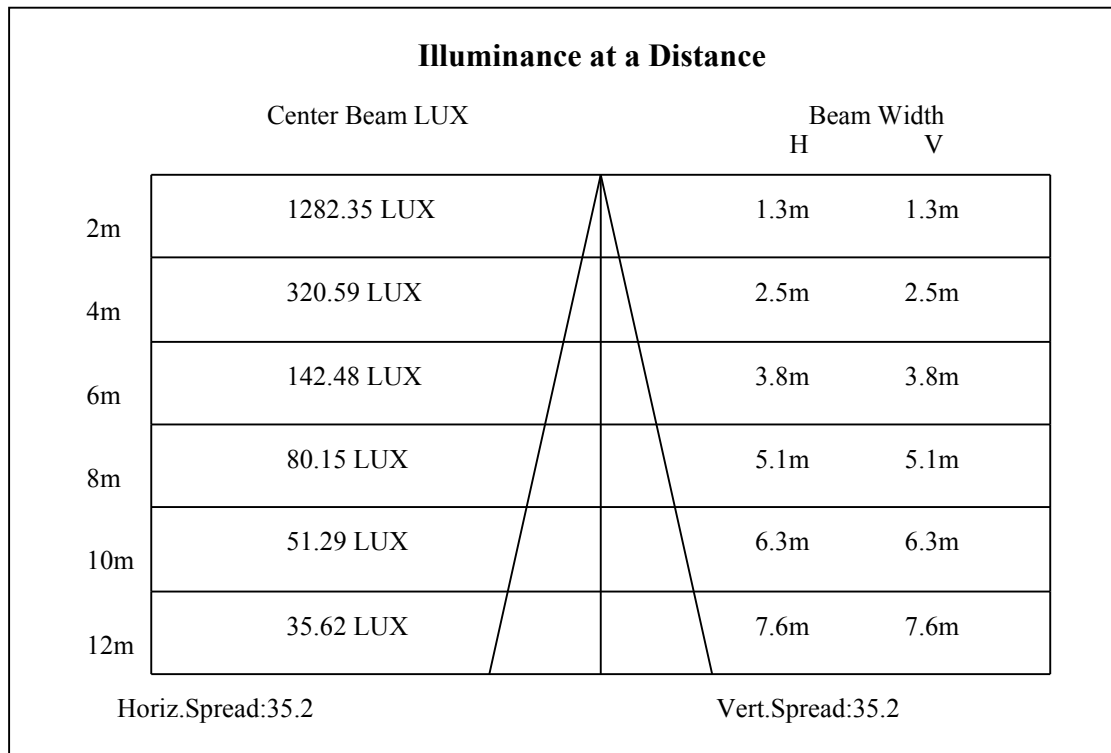
C90/C270: —————

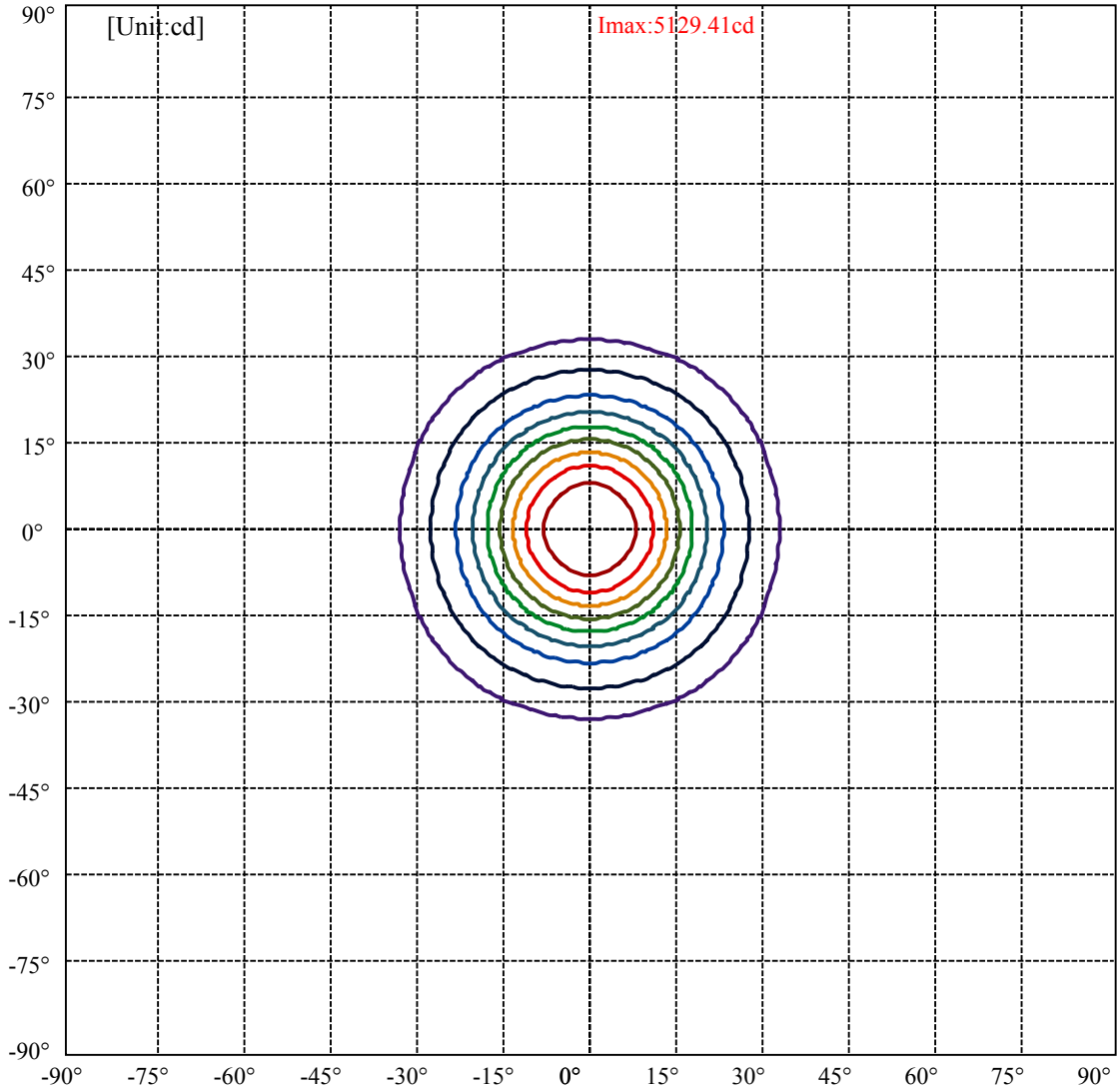
Field angle(10%Imax):C0/180Left:32.5 Right:32.5

:C90/270Left:32.5 Right:32.5

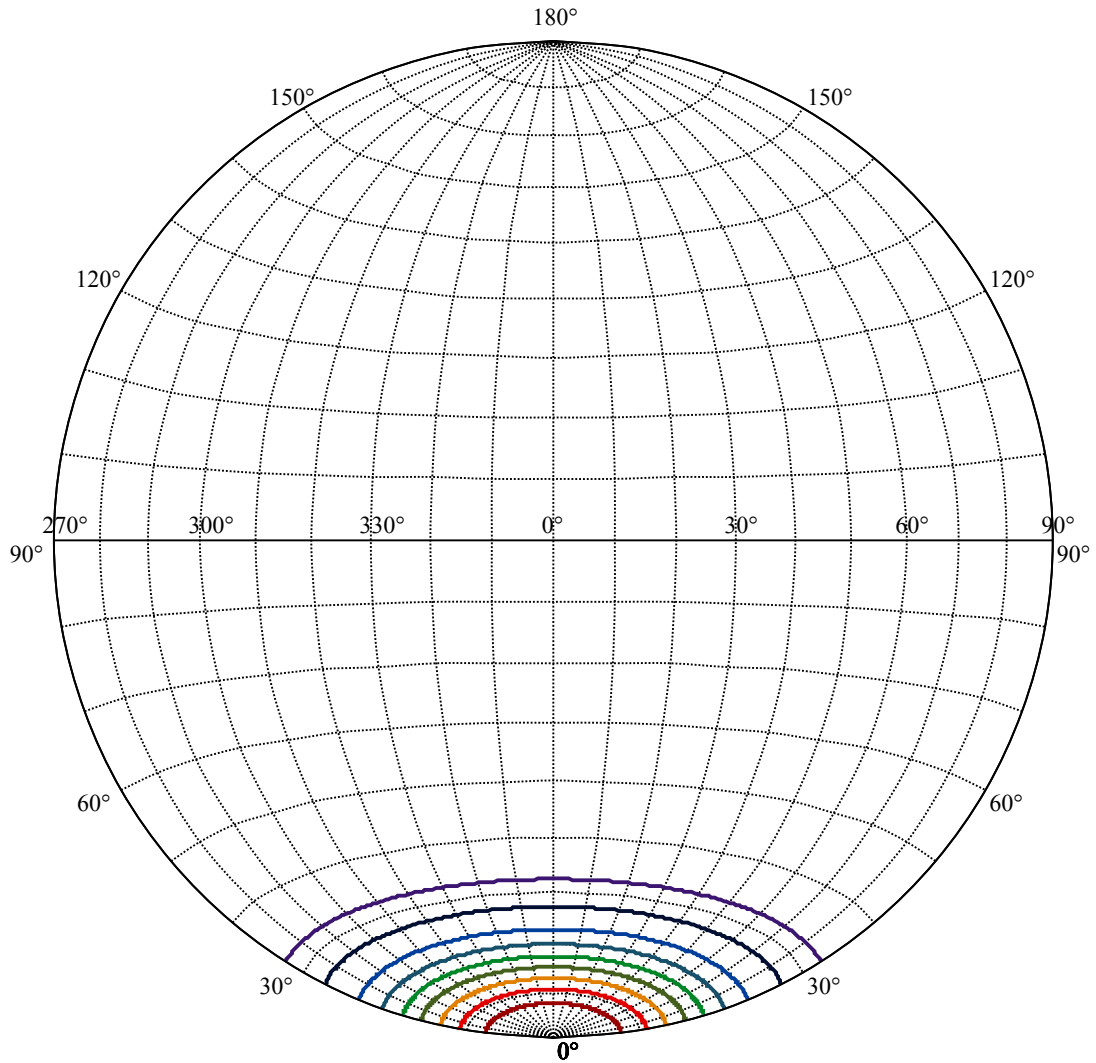
Beam Angle(50%Imax):C0/180Left:17.6 Right:17.6

:C90/270Left:17.6 Right:17.6





(10%Imax) 512.941	—
(20%Imax) 1025.88	—
(30%Imax) 1538.82	—
(40%Imax) 2051.76	—
(50%Imax) 2564.7	—
(60%Imax) 3077.65	—
(70%Imax) 3590.59	—
(80%Imax) 4103.53	—
(90%Imax) 4616.47	—



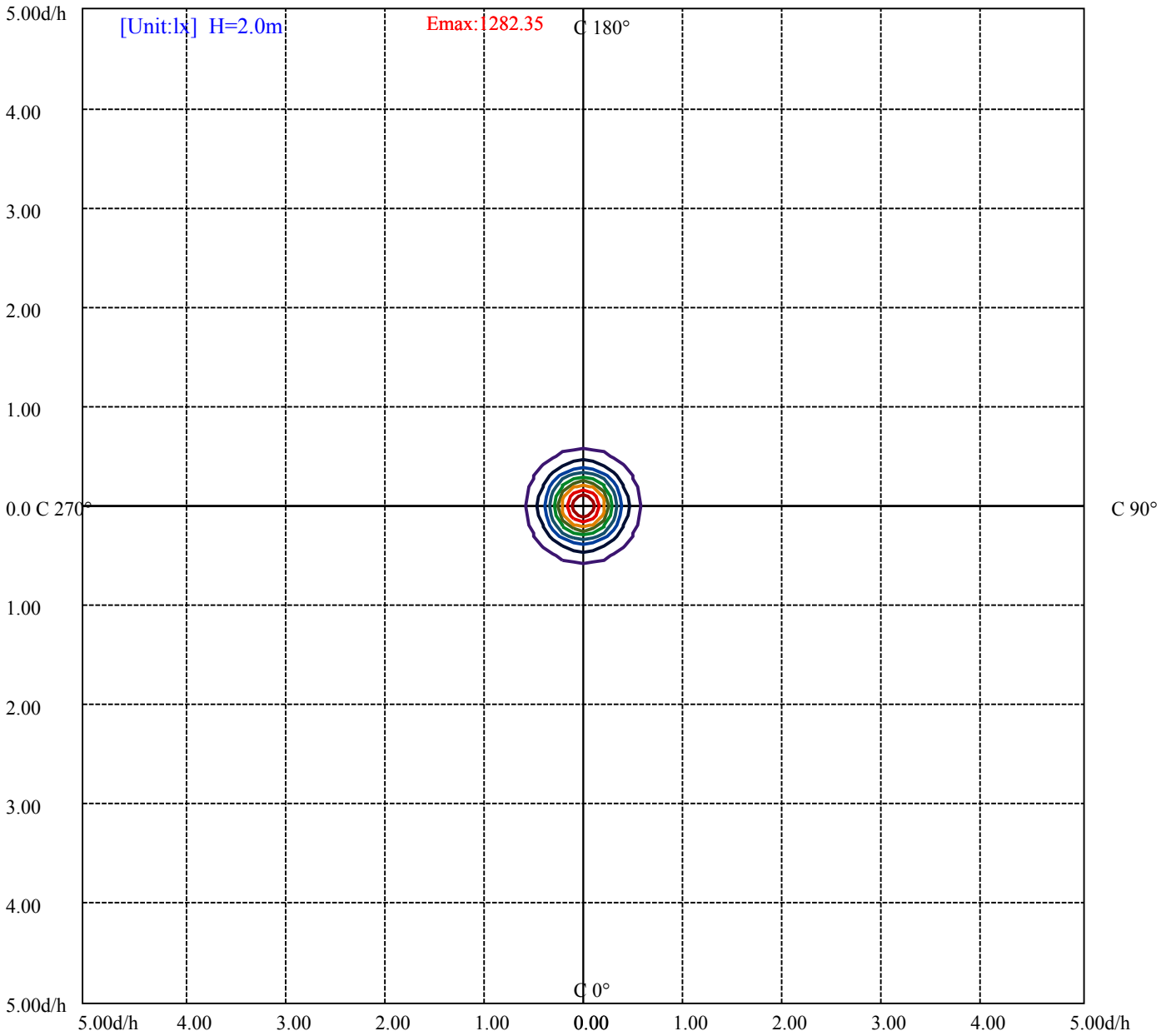
House

[Unit:cd]

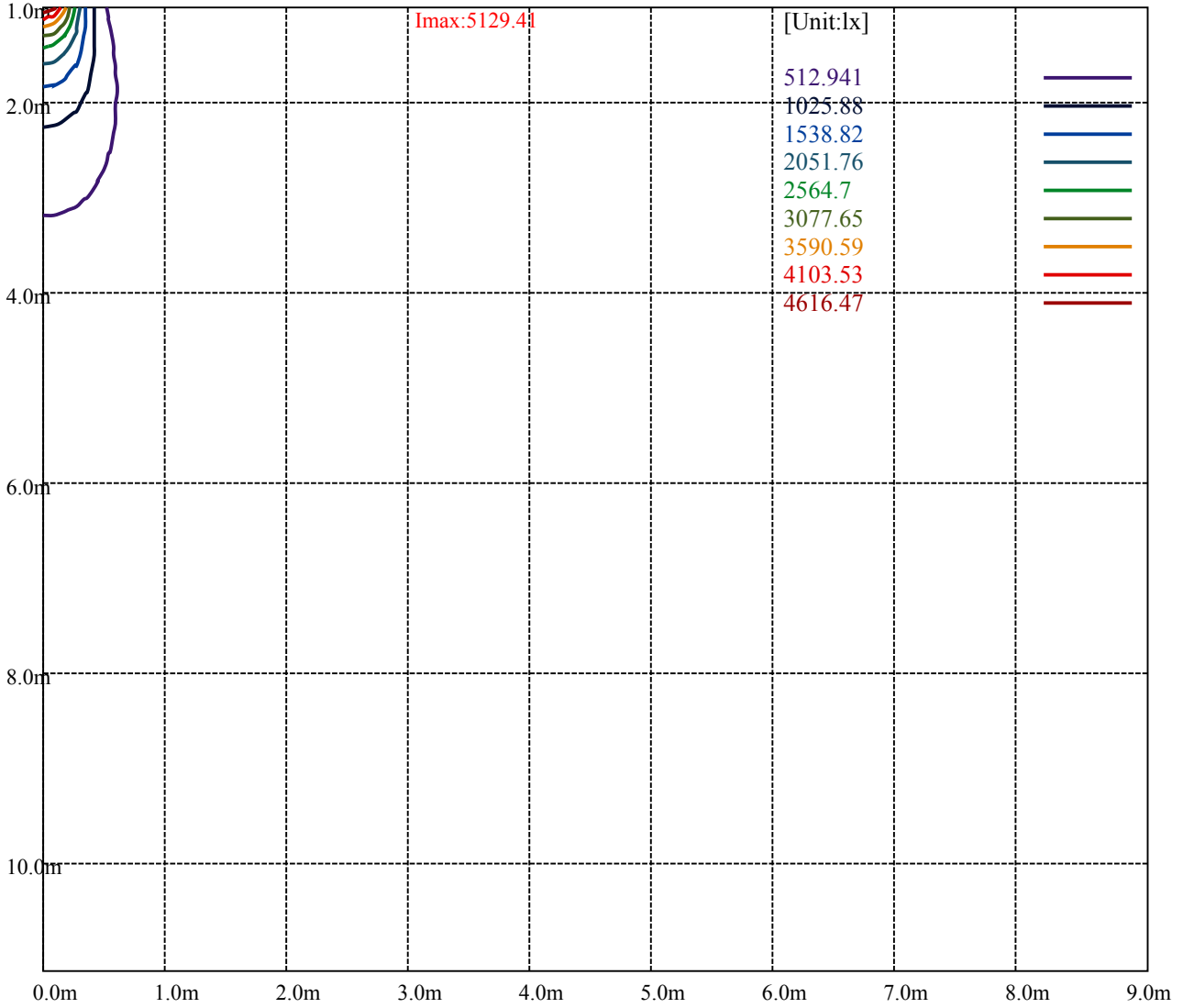
Road

Imax:5129.41

(10%Imax) 512.941	—
(20%Imax) 1025.88	—
(30%Imax) 1538.82	—
(40%Imax) 2051.76	—
(50%Imax) 2564.7	—
(60%Imax) 3077.65	—
(70%Imax) 3590.59	—
(80%Imax) 4103.53	—
(90%Imax) 4616.47	—



(10%Emax) 128.2352	—
(20%Emax) 256.47	—
(30%Emax) 384.705	—
(40%Emax) 512.94	—
(50%Emax) 641.175	—
(60%Emax) 769.4125	—
(70%Emax) 897.6475	—
(80%Emax) 1025.882	—
(90%Emax) 1154.118	—



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

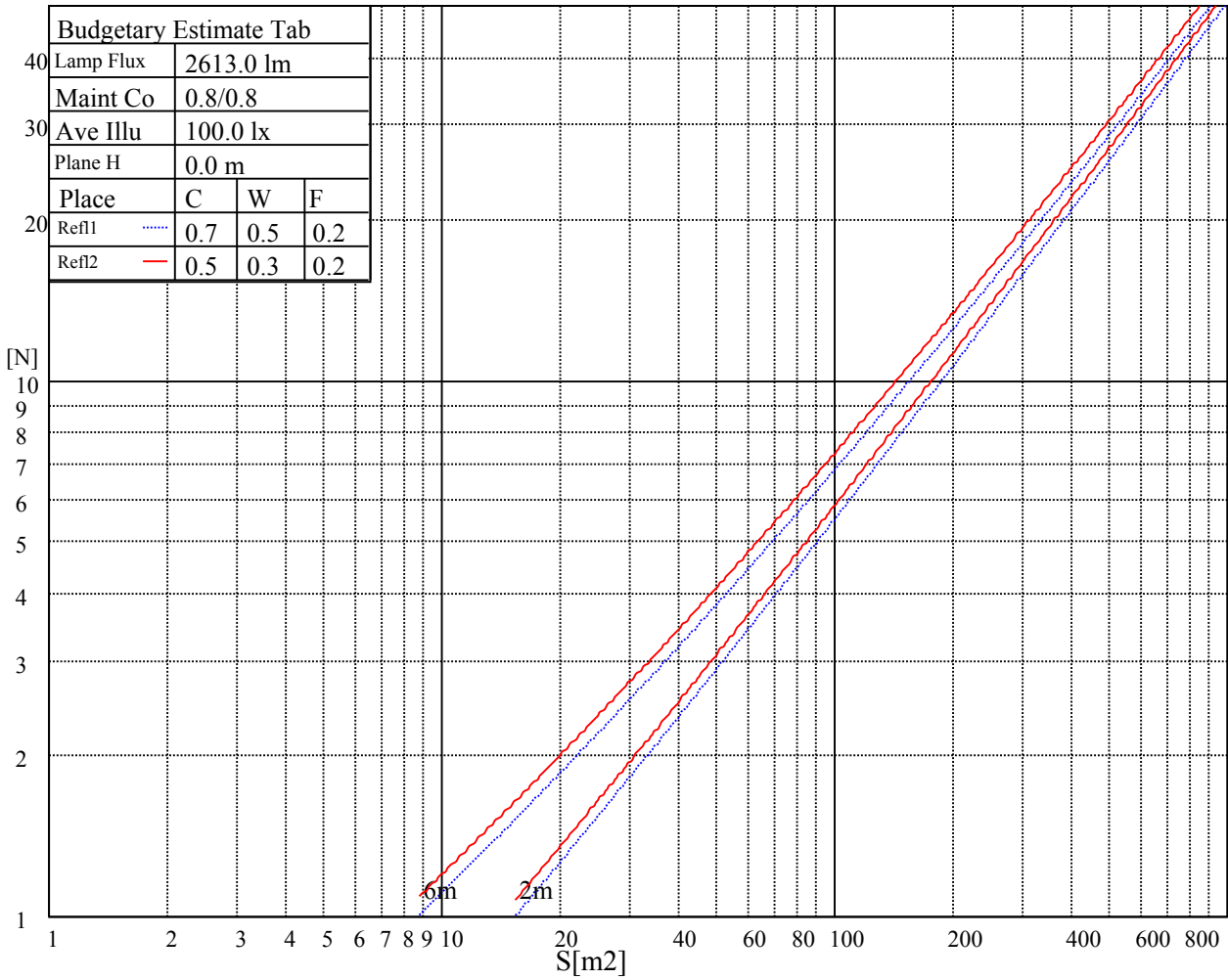
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

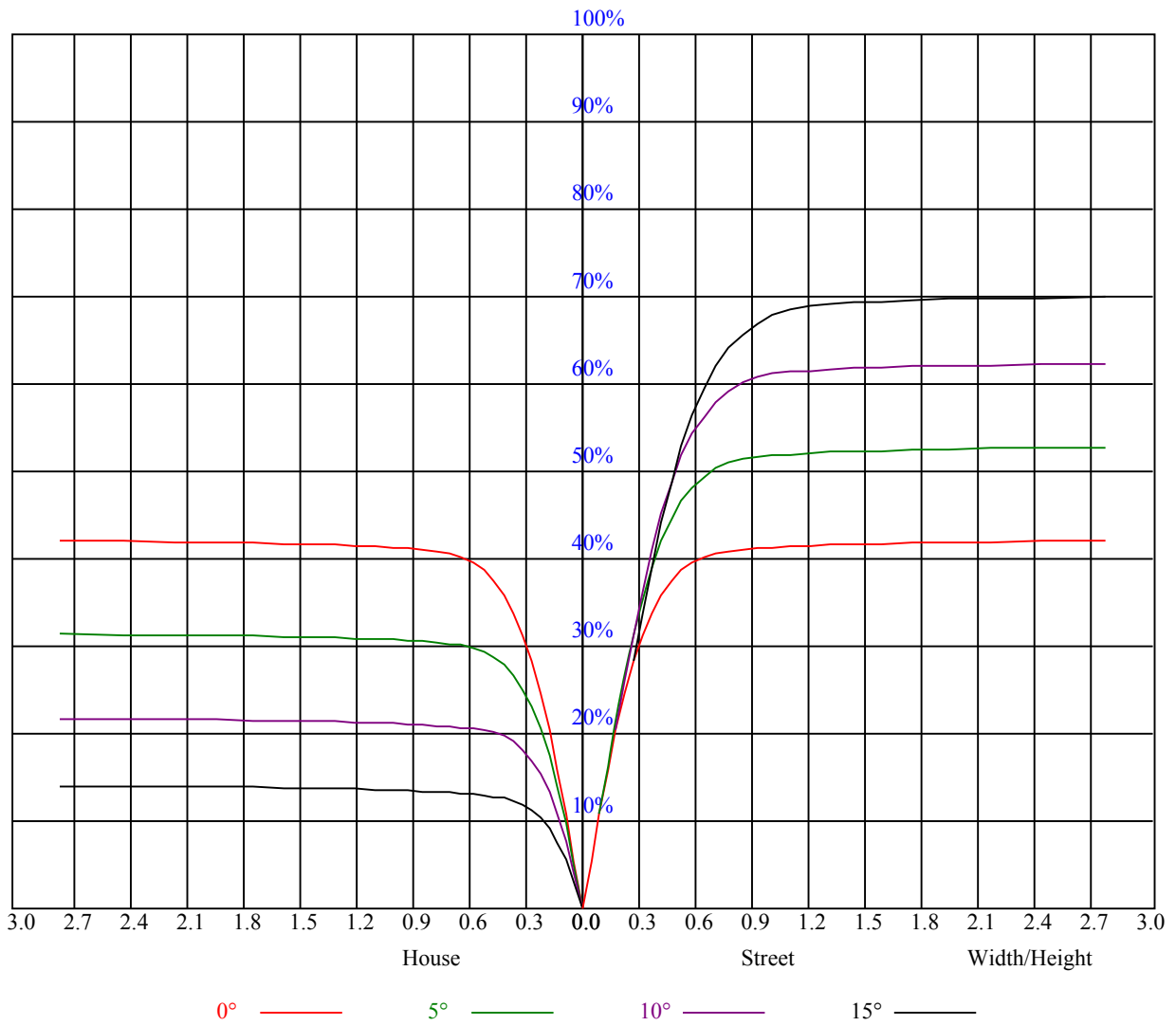


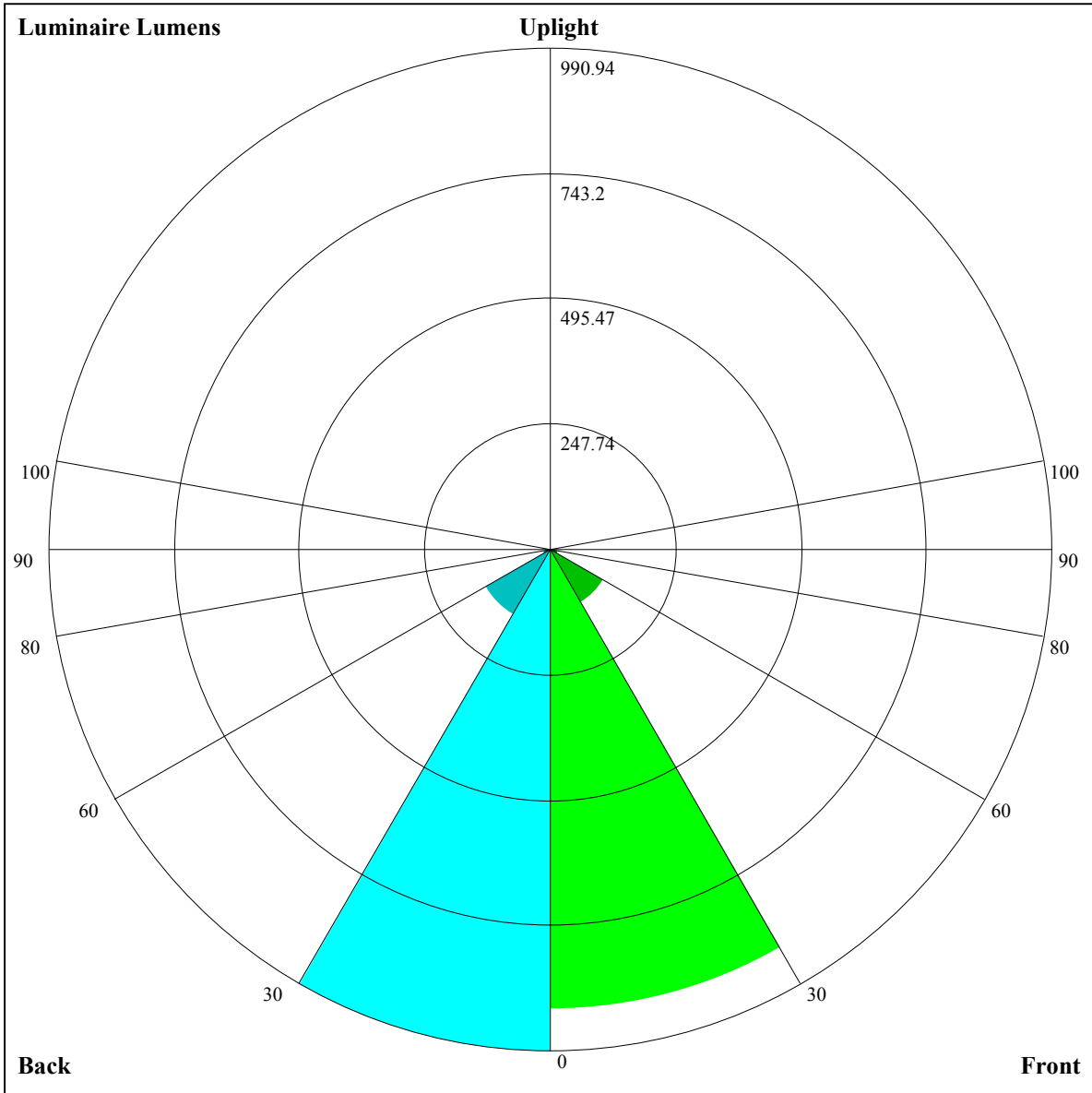
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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
	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	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
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	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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.94	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.86	0.86	0.85	0.84	0.83	0.82	0.81	0.80
2	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.82	0.80	0.79	0.80	0.78	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.80	0.78	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.72
4	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.71	0.69	0.68
5	0.75	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	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
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.61	0.57	0.55	0.54
10	0.60	0.56	0.54	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.58	0.55	0.53	0.52





Luminaire Lumens:

FL=909.14,FM=120.2,FH=16.83,FVH=5.66

BL=990.94,BM=149.21,BH=17.5,BVH=5.78

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	5089.76	5045.28	4986.18	4918.29	4818.22	4719.31	4602.27	4429.63	4264.01
45.0	5135.99	5117.27	5088.59	5034.16	4975.06	4896.64	4784.86	4674.84	4549.60
90.0	5141.26	5116.68	5073.37	5021.87	4953.40	4869.72	4749.74	4625.09	4477.61
135.0	5150.62	5151.21	5140.67	5108.49	5055.23	4989.10	4916.53	4812.36	4694.73
180.0	5089.76	5127.80	5143.60	5135.99	5109.66	5060.50	5006.66	4943.45	4840.45
225.0	5135.99	5128.97	5100.29	5061.67	5011.34	4932.92	4863.28	4786.61	4691.81
270.0	5141.26	5147.70	5123.12	5093.27	5036.50	4979.74	4914.19	4842.21	4732.19
315.0	5150.62	5114.34	5076.89	5034.75	4972.13	4878.49	4792.47	4666.06	4532.63
360.0	5089.76	5045.28	4986.18	4918.29	4818.22	4719.31	4602.27	4429.63	4264.01
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4021.14	3813.97	3597.44	3373.88	3100.58	2886.39	2676.29	2464.44	2221.57
45.0	4357.64	4185.59	3991.88	3787.63	3513.75	3290.78	3069.56	2854.79	2587.92
90.0	4309.07	4082.00	3877.76	3663.57	3387.34	3169.05	2953.69	2680.97	2470.29
135.0	4557.79	4364.08	4186.17	3990.71	3723.85	3499.70	3272.64	2994.07	2772.27
180.0	4747.99	4638.55	4463.57	4295.61	4052.16	3848.50	3634.31	3414.85	3142.13
225.0	4530.29	4374.62	4149.89	3954.42	3750.77	3487.41	3274.39	3060.20	2791.00
270.0	4615.73	4475.86	4314.34	4077.91	3876.00	3666.49	3393.19	3173.73	2906.87
315.0	4376.96	4153.99	3957.94	3751.35	3539.50	3263.27	3044.98	2831.38	2617.77
360.0	4021.14	3813.97	3597.44	3373.88	3100.58	2886.39	2676.29	2464.44	2221.57
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2035.47	1866.93	1672.05	1529.84	1310.96	1157.05	1130.25	1032.10	927.82
45.0	2387.78	2196.41	1967.00	1795.53	1609.43	1470.14	1340.81	1190.41	1083.31
90.0	2276.00	2036.64	1855.22	1692.53	1514.04	1286.38	1140.95	1140.95	1021.16
135.0	2569.20	2373.73	2130.86	1954.12	1787.34	1634.59	1466.05	1336.71	1219.08
180.0	2926.18	2709.65	2496.04	2253.17	2077.61	1903.21	1733.49	1552.66	1428.01
225.0	2578.56	2371.39	2175.93	1945.93	1778.56	1626.98	1492.38	1166.94	1166.94
270.0	2688.58	2473.80	2216.89	2033.13	1866.34	1708.92	1560.85	1388.21	1271.17
315.0	2356.17	2159.54	1971.10	1758.07	1606.50	1441.47	1147.86	1147.86	1097.77
360.0	2035.47	1866.93	1672.05	1529.84	1310.96	1157.05	1130.25	1032.10	927.82
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	846.65	757.40	662.01	532.26	425.58	323.63	213.67	147.30	108.21
45.0	988.50	908.91	827.57	705.25	604.60	503.35	401.52	305.55	305.55
90.0	943.09	865.02	775.89	652.94	550.93	450.56	328.78	243.22	167.90
135.0	1087.41	997.28	903.65	817.62	725.15	623.91	494.57	391.57	317.84
180.0	1281.12	1175.78	1076.29	960.41	884.33	804.16	705.84	576.51	470.58
225.0	1115.09	997.52	919.56	845.12	729.37	628.88	526.47	400.65	304.96
270.0	1158.80	1056.97	946.95	877.31	763.78	663.12	565.97	440.15	343.59
315.0	984.35	907.10	833.01	742.71	614.60	511.78	409.07	311.34	203.48
360.0	846.65	757.40	662.01	532.26	425.58	323.63	213.67	147.30	108.21
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.05	84.45	76.02	70.29	64.02	59.81	56.01	51.91	48.87
45.0	131.97	97.56	87.84	78.19	72.45	67.01	61.45	57.53	54.13
90.0	108.38	92.82	84.21	75.85	69.93	65.02	60.69	55.95	52.55
135.0	317.84	121.38	93.46	83.98	76.90	69.99	64.90	60.86	56.30
180.0	362.90	313.15	313.15	110.96	86.73	77.02	70.87	65.95	60.28
225.0	216.12	142.50	90.94	78.48	71.75	66.36	60.40	56.65	53.37
270.0	296.77	296.77	102.30	82.58	75.26	67.83	62.97	58.87	55.25
315.0	136.77	99.08	83.51	76.08	70.40	63.97	59.81	55.25	52.03
360.0	93.05	84.45	76.02	70.29	64.02	59.81	56.01	51.91	48.87

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	46.17	43.37	41.38	39.62	37.92	36.05	34.65	33.18	31.95
45.0	50.91	47.52	45.00	42.78	40.79	38.62	37.10	35.58	33.94
90.0	49.45	46.82	43.77	41.73	39.74	37.81	36.28	34.65	33.24
135.0	52.90	49.28	46.70	44.30	41.67	39.74	38.16	36.75	35.05
180.0	56.71	53.31	49.69	47.05	44.65	42.60	40.32	38.57	37.16
225.0	49.63	47.05	44.77	42.19	40.44	38.86	36.93	35.64	34.24
270.0	51.27	48.52	46.12	43.89	41.49	39.80	37.81	36.46	35.00
315.0	49.16	46.64	43.95	41.90	40.15	38.51	36.69	35.11	33.88
360.0	46.17	43.37	41.38	39.62	37.92	36.05	34.65	33.18	31.95
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.31	28.97	27.80	26.22	25.05	23.70	22.71	21.71	20.78
45.0	32.60	31.43	29.67	28.50	27.27	25.75	24.58	23.41	22.41
90.0	32.01	30.78	29.14	27.92	26.63	25.46	24.05	22.94	22.00
135.0	33.83	32.48	31.25	30.02	28.50	27.21	25.52	24.46	23.23
180.0	35.70	34.00	32.71	31.43	29.96	28.68	27.27	26.04	24.93
225.0	33.07	31.43	30.31	29.14	27.97	26.57	25.40	24.05	22.94
270.0	33.42	32.13	30.90	29.73	28.21	27.15	25.93	24.87	23.41
315.0	32.19	31.02	29.73	28.27	27.04	25.81	24.52	23.47	22.41
360.0	30.31	28.97	27.80	26.22	25.05	23.70	22.71	21.71	20.78
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.84	19.02	18.32	17.67	16.80	16.33	15.68	15.04	14.57
45.0	21.19	20.42	19.61	18.79	17.97	17.26	16.68	15.92	15.27
90.0	21.01	19.96	19.20	18.26	17.62	16.91	16.15	15.63	15.04
135.0	22.12	21.07	20.19	19.25	18.43	17.79	17.09	16.27	15.80
180.0	23.53	22.47	21.59	20.60	19.61	18.84	18.08	17.50	16.68
225.0	22.00	20.78	19.96	19.25	18.26	17.62	16.97	16.33	15.68
270.0	22.47	21.54	20.37	19.61	18.84	17.91	17.32	16.50	15.86
315.0	21.48	20.37	19.55	18.73	18.02	17.21	16.56	16.04	15.33
360.0	19.84	19.02	18.32	17.67	16.80	16.33	15.68	15.04	14.57
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.10	13.58	13.23	12.82	12.41	12.11	11.76	11.41	11.12
45.0	14.69	14.22	13.81	13.40	12.93	12.58	12.29	12.00	11.65
90.0	14.40	13.99	13.52	13.17	12.76	12.41	12.11	11.88	11.53
135.0	15.22	14.63	14.10	13.64	13.17	12.82	12.52	12.17	11.94
180.0	16.09	15.51	14.98	14.34	13.87	13.28	12.99	12.64	12.23
225.0	15.10	14.57	14.10	13.52	13.17	12.82	12.41	12.11	11.70
270.0	15.39	14.81	14.22	13.75	13.34	12.99	12.58	12.23	11.94
315.0	14.75	14.28	13.75	13.28	12.93	12.52	12.23	11.94	11.70
360.0	14.10	13.58	13.23	12.82	12.41	12.11	11.76	11.41	11.12
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	10.48	10.30	10.01	9.83	9.60	9.60	9.66
45.0	11.29	11.06	10.83	10.65	10.24	10.07	9.77	9.71	9.60
90.0	11.24	10.94	10.71	10.48	10.24	10.07	9.83	9.77	9.60
135.0	11.59	11.29	11.00	10.71	10.42	10.24	10.12	9.89	9.77
180.0	12.00	11.65	11.35	11.06	10.83	10.53	10.36	10.18	9.89
225.0	11.47	11.24	10.94	10.65	10.48	10.24	10.07	9.89	9.66
270.0	11.59	11.29	10.94	10.77	10.48	10.30	10.12	9.89	9.71
315.0	11.35	11.06	10.83	10.59	10.36	10.12	9.89	9.77	9.60
360.0	10.89	10.65	10.48	10.30	10.01	9.83	9.60	9.60	9.66

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.60
90.0	9.66
135.0	9.60
180.0	9.71
225.0	9.54
270.0	9.54
315.0	9.66
360.0	9.60