



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: 2-2684-L

Luminaire: 92.70.412.00

Report No: 2024228-B030

Ballast type: AC

Test No: 2024228-C030

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): 2234.43, Efficiency(%): 85.51% , Luminous Efficacy(lm/W): 116.81

Central intensity(cd): 5234.165, Maximum intensity(cd): 5234.165

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=34.4

[C90/270]Total=34.4

Field angle(10%Imax): [C0/180]Total=65.8

[C90/270]Total=65.8

Maximum s/h(1/2): C0_180=0.57 C90_270=0.57

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(%): 85.51%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.961%

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	5234.165	0.000	0	0.00%	0.00%
1.0	5222.899	5.004	5.004	0.19%	0.22%
2.0	5186.835	14.941	19.945	0.57%	0.89%
3.0	5130.507	24.676	44.62	0.94%	2.00%
4.0	5044.552	34.059	78.679	1.30%	3.52%
5.0	4941.186	42.958	121.638	1.64%	5.44%
6.0	4820.630	51.301	172.938	1.96%	7.74%
7.0	4684.492	58.998	231.937	2.26%	10.38%
8.0	4522.531	65.893	297.83	2.52%	13.33%
9.0	4339.941	71.826	369.655	2.75%	16.54%
10.0	4143.598	76.773	446.428	2.94%	19.98%
11.0	3944.621	80.818	527.246	3.09%	23.60%
12.0	3747.401	84.085	611.331	3.22%	27.36%
13.0	3502.557	86.039	697.369	3.29%	31.21%
14.0	3296.777	87.031	784.4	3.33%	35.11%
15.0	3092.168	87.710	872.111	3.36%	39.03%
16.0	2891.289	87.674	959.785	3.36%	42.95%
17.0	2665.173	86.529	1046.314	3.31%	46.83%
18.0	2466.489	84.610	1130.924	3.24%	50.61%
19.0	2280.022	82.580	1213.504	3.16%	54.31%
20.0	2081.704	79.832	1293.335	3.06%	57.88%
21.0	1893.700	76.336	1369.671	2.92%	61.30%
22.0	1716.816	72.555	1442.226	2.78%	64.55%
23.0	1546.874	68.481	1510.707	2.62%	67.61%
24.0	1375.023	63.883	1574.59	2.44%	70.47%
25.0	1255.951	59.823	1634.413	2.29%	73.15%
26.0	1173.252	57.342	1691.754	2.19%	75.71%
27.0	1085.819	55.269	1747.023	2.12%	78.19%
28.0	998.313	52.766	1799.789	2.02%	80.55%
29.0	908.401	49.885	1849.674	1.91%	82.78%
30.0	798.949	46.098	1895.772	1.76%	84.84%
31.0	701.231	41.748	1937.52	1.60%	86.71%
32.0	604.589	37.410	1974.93	1.43%	88.39%
33.0	510.236	32.843	2007.773	1.26%	89.86%
34.0	405.393	27.710	2035.483	1.06%	91.10%
35.0	326.790	22.739	2058.222	0.87%	92.11%
36.0	267.067	18.909	2077.13	0.72%	92.96%
37.0	207.704	15.484	2092.615	0.59%	93.65%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	146.204	11.813	2104.428	0.45%	94.18%
39.0	104.828	8.568	2112.996	0.33%	94.57%
40.0	79.613	6.433	2119.429	0.25%	94.85%
41.0	69.166	5.298	2124.727	0.20%	95.09%
42.0	62.999	4.802	2129.528	0.18%	95.31%
43.0	58.318	4.494	2134.022	0.17%	95.51%
44.0	54.726	4.267	2138.289	0.16%	95.70%
45.0	51.778	4.093	2142.382	0.16%	95.88%
46.0	49.035	3.943	2146.325	0.15%	96.06%
47.0	46.357	3.794	2150.119	0.15%	96.23%
48.0	44.221	3.662	2153.78	0.14%	96.39%
49.0	42.048	3.543	2157.323	0.14%	96.55%
50.0	40.000	3.421	2160.744	0.13%	96.70%
51.0	37.945	3.298	2164.041	0.13%	96.85%
52.0	36.196	3.181	2167.223	0.12%	96.99%
53.0	34.572	3.078	2170.301	0.12%	97.13%
54.0	32.795	2.969	2173.271	0.11%	97.26%
55.0	31.141	2.854	2176.125	0.11%	97.39%
56.0	29.671	2.748	2178.872	0.11%	97.51%
57.0	28.244	2.648	2181.521	0.10%	97.63%
58.0	26.884	2.549	2184.07	0.10%	97.75%
59.0	25.530	2.450	2186.52	0.09%	97.86%
60.0	24.345	2.356	2188.877	0.09%	97.96%
61.0	23.226	2.270	2191.147	0.09%	98.06%
62.0	22.195	2.189	2193.335	0.08%	98.16%
63.0	21.134	2.107	2195.443	0.08%	98.26%
64.0	20.271	2.032	2197.474	0.08%	98.35%
65.0	19.459	1.966	2199.441	0.08%	98.43%
66.0	18.720	1.905	2201.345	0.07%	98.52%
67.0	17.915	1.842	2203.188	0.07%	98.60%
68.0	17.235	1.781	2204.968	0.07%	98.68%
69.0	16.642	1.728	2206.696	0.07%	98.76%
70.0	16.035	1.678	2208.375	0.06%	98.83%
71.0	15.450	1.627	2210.002	0.06%	98.91%
72.0	14.960	1.581	2211.583	0.06%	98.98%
73.0	14.477	1.539	2213.123	0.06%	99.05%
74.0	14.075	1.501	2214.624	0.06%	99.11%
75.0	13.636	1.464	2216.088	0.06%	99.18%

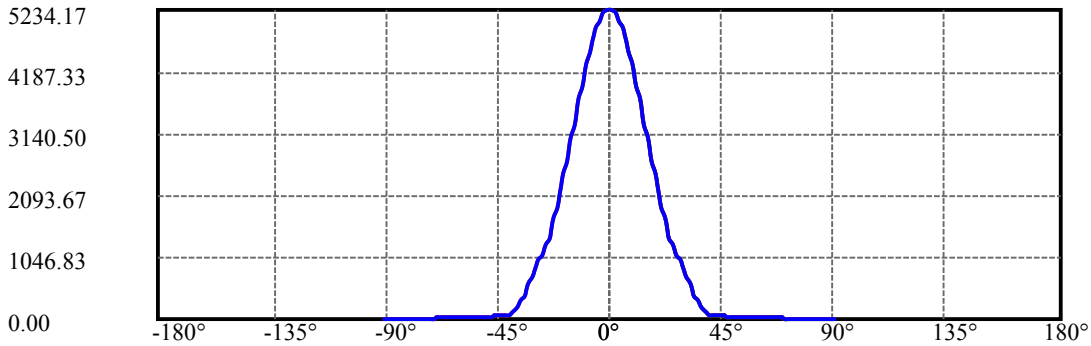
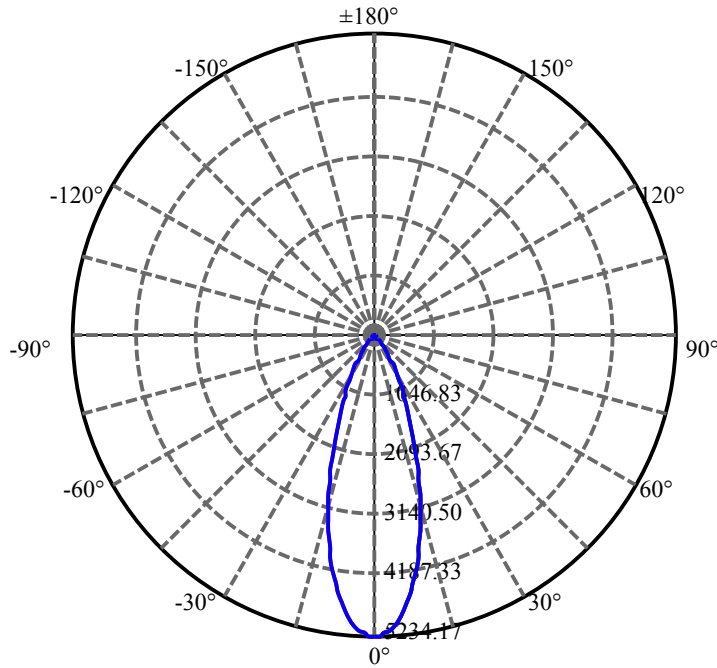
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.255	1.427	2217.515	0.05%	99.24%
77.0	12.919	1.395	2218.911	0.05%	99.31%
78.0	12.597	1.366	2220.277	0.05%	99.37%
79.0	12.275	1.336	2221.613	0.05%	99.43%
80.0	11.917	1.304	2222.917	0.05%	99.48%
81.0	11.639	1.274	2224.191	0.05%	99.54%
82.0	11.324	1.245	2225.436	0.05%	99.60%
83.0	10.980	1.212	2226.649	0.05%	99.65%
84.0	10.702	1.181	2227.83	0.05%	99.70%
85.0	10.395	1.151	2228.981	0.04%	99.76%
86.0	10.176	1.124	2230.106	0.04%	99.81%
87.0	9.985	1.103	2231.209	0.04%	99.86%
88.0	9.824	1.085	2232.294	0.04%	99.90%
89.0	9.707	1.071	2233.365	0.04%	99.95%
90.0	9.649	1.061	2234.426	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1895.77	72.55%	84.84%
0-40	2119.43	81.11%	94.85%
0-60	2188.88	83.77%	97.96%
0-90	2233.36	85.47%	99.95%
0-120	2233.36	85.47%	99.95%
0-180	2234.43	85.51%	100.00%
60-90	44.49	1.70%	1.99%
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%
0-27.77	1787.54	68.41%	80.00%

ZONAL LUMEN SUMMARY

0-10	446.43
10-20	846.91
20-30	602.44
30-40	223.66
40-50	41.32
50-60	28.13
60-70	19.50
70-80	14.54
80-90	10.45
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: —————

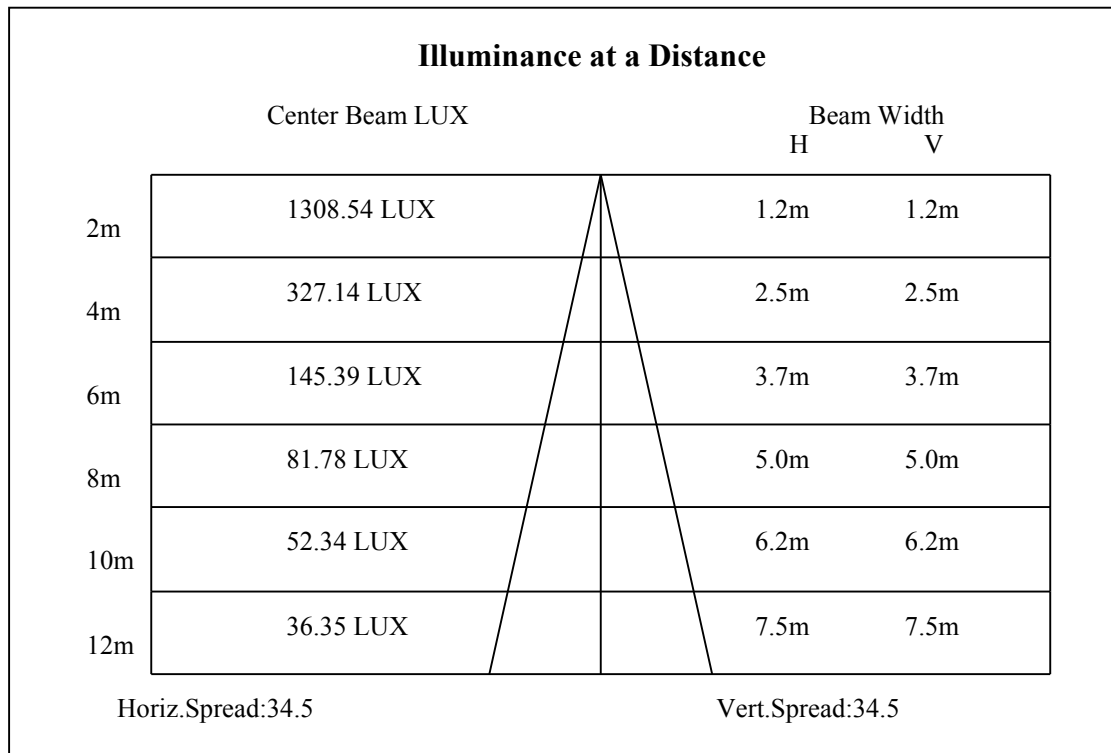
C90/C270: —————

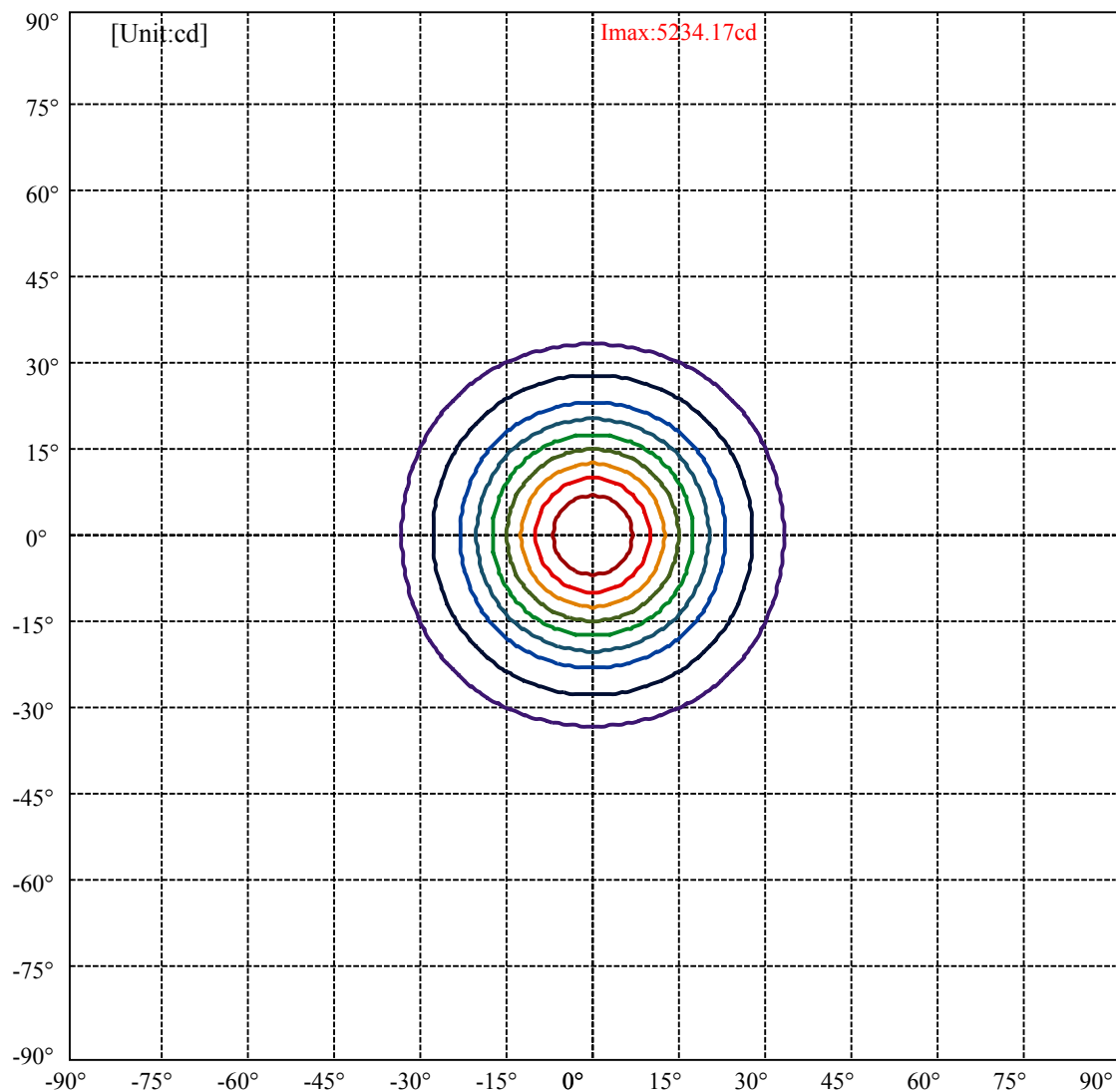
Field angle(10%Imax):C0/180Left:32.9 Right:32.9

:C90/270Left:32.9 Right:32.9

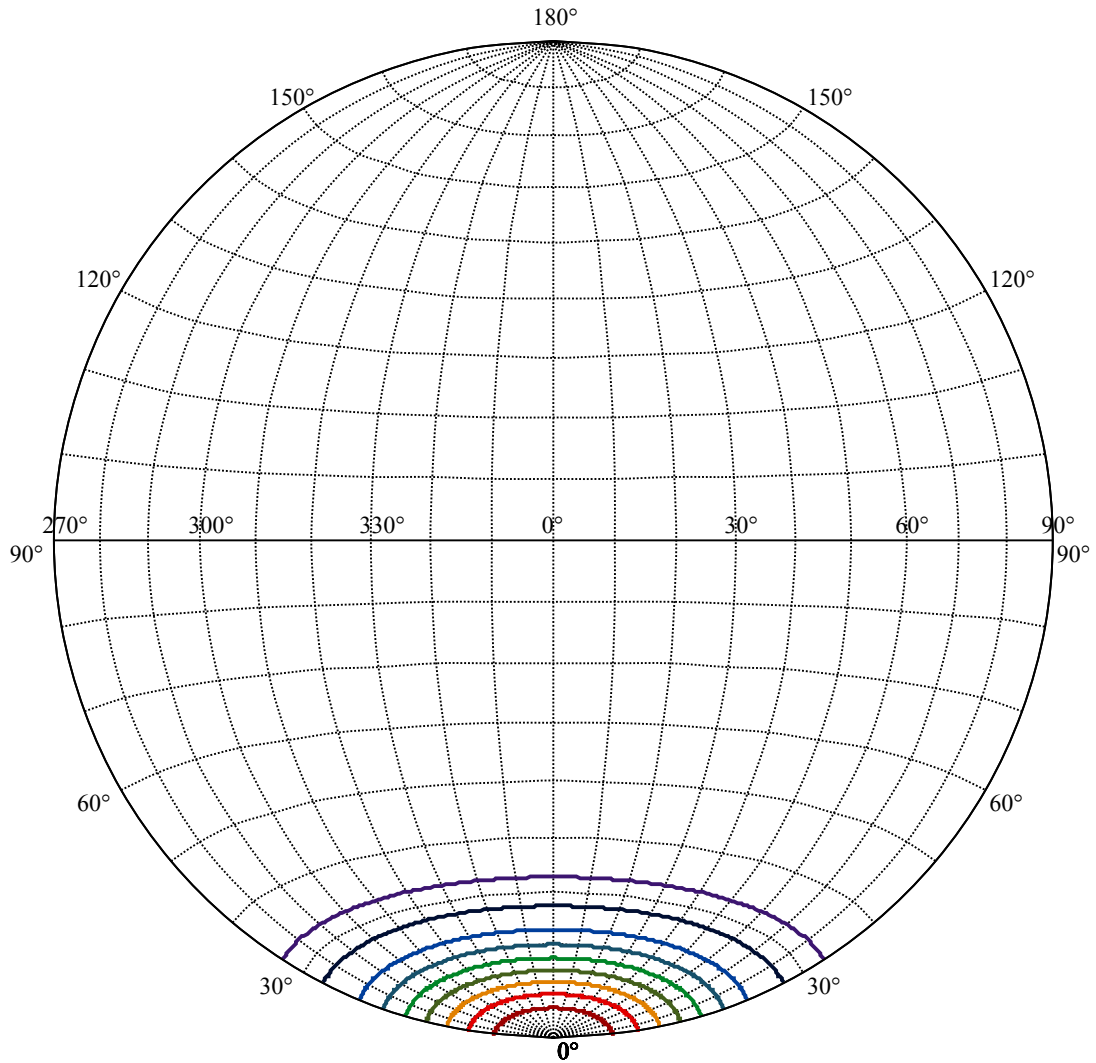
Beam Angle(50%Imax):C0/180Left:17.2 Right:17.2

:C90/270Left:17.2 Right:17.2





(10%Imax) 523.417	—
(20%Imax) 1046.83	—
(30%Imax) 1570.25	—
(40%Imax) 2093.67	—
(50%Imax) 2617.08	—
(60%Imax) 3140.5	—
(70%Imax) 3663.92	—
(80%Imax) 4187.33	—
(90%Imax) 4710.75	—



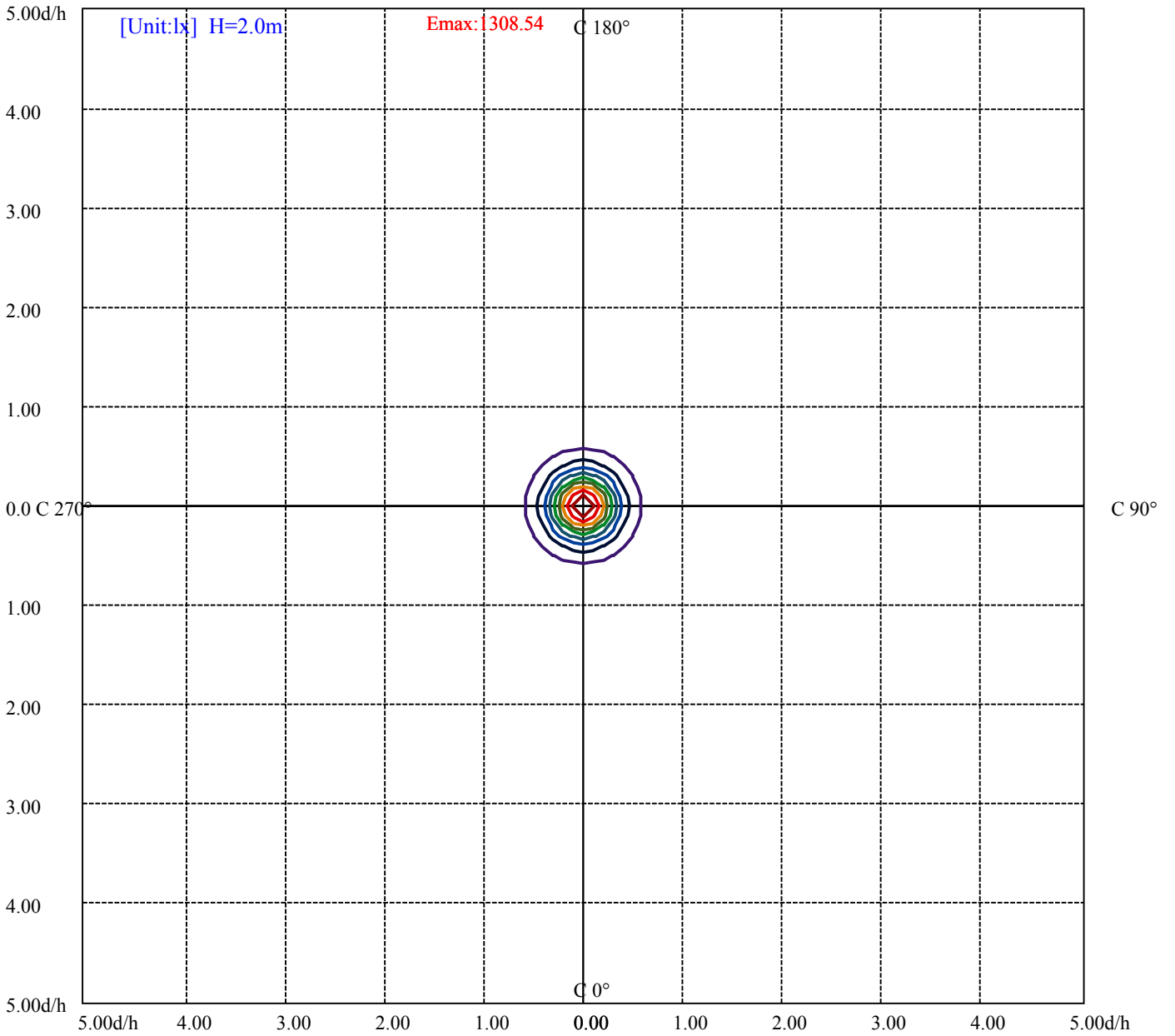
House

[Unit:cd]

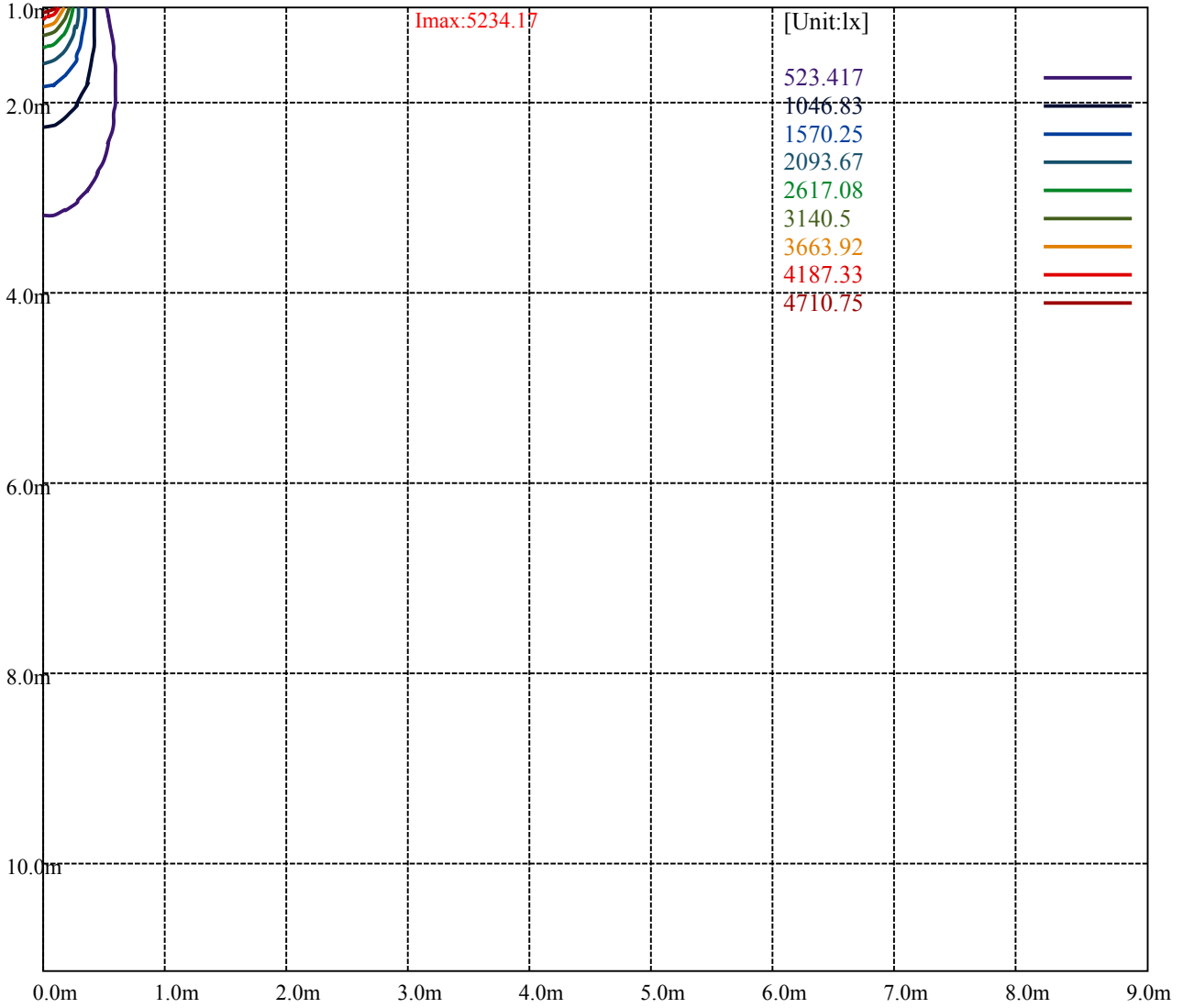
Road

Imax:5234.17

(10%Imax) 523.417	—
(20%Imax) 1046.83	—
(30%Imax) 1570.25	—
(40%Imax) 2093.67	—
(50%Imax) 2617.08	—
(60%Imax) 3140.5	—
(70%Imax) 3663.92	—
(80%Imax) 4187.33	—
(90%Imax) 4710.75	—



(10%Emax) 130.854	—
(20%Emax) 261.7075	—
(30%Emax) 392.5625	—
(40%Emax) 523.4175	—
(50%Emax) 654.27	—
(60%Emax) 785.125	—
(70%Emax) 915.9775	—
(80%Emax) 1046.833	—
(90%Emax) 1177.688	—



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

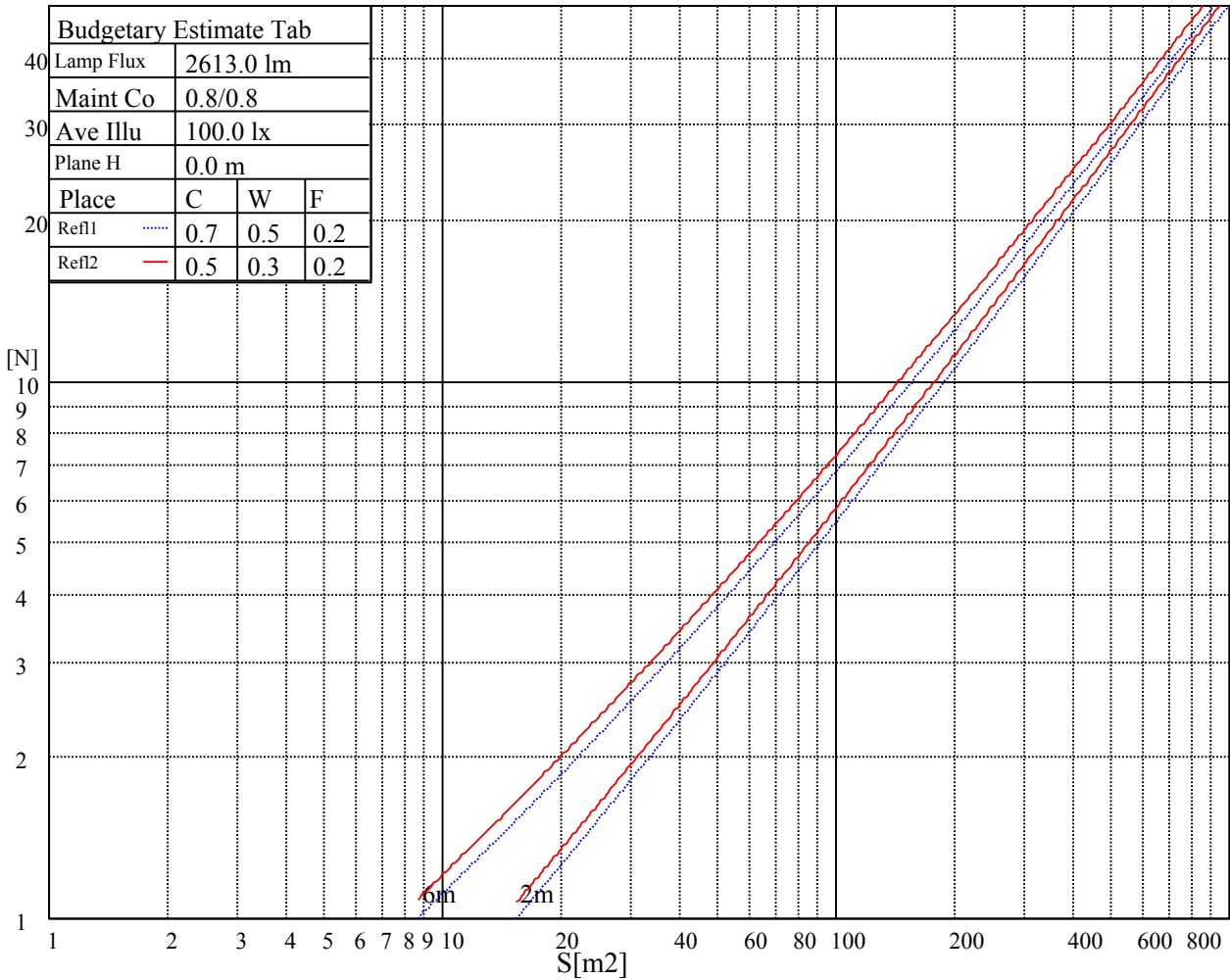
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

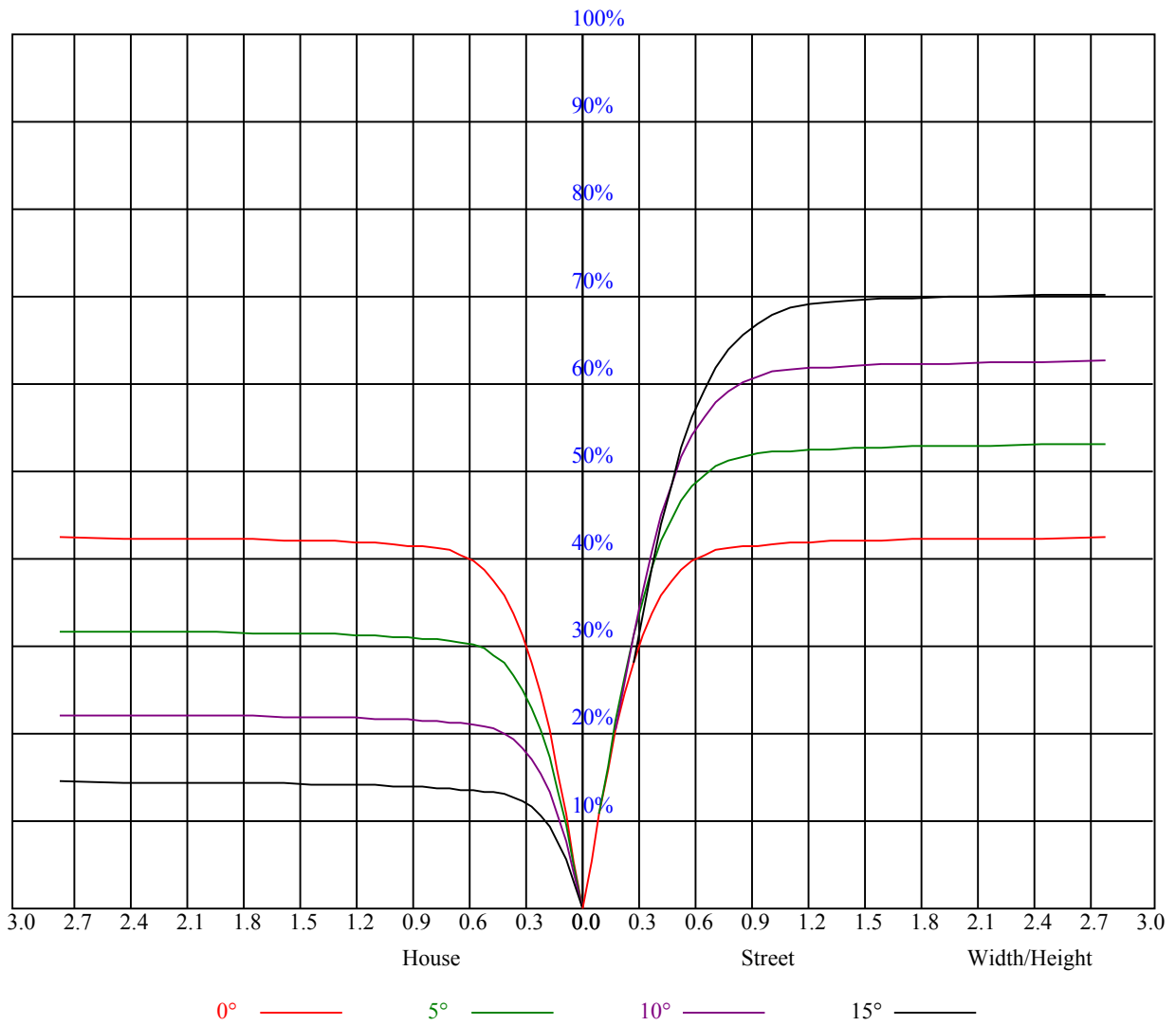


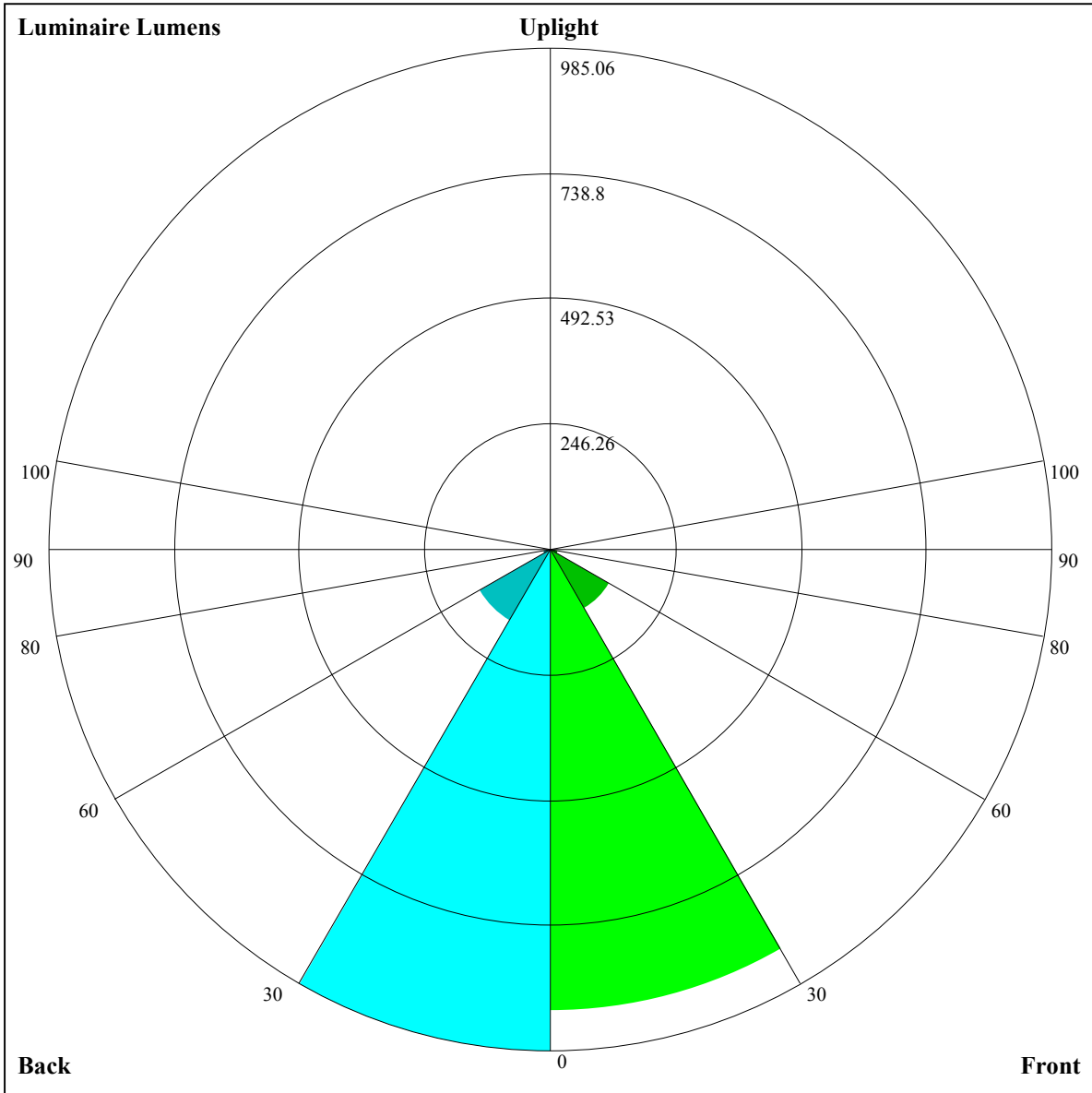
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.95	0.93	0.91	0.93	0.92	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	0.76
3	0.84	0.81	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.72	0.70	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.65	0.72	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.60	0.59
8	0.66	0.62	0.58	0.65	0.61	0.58	0.65	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	0.58	0.55	0.54
10	0.61	0.56	0.53	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=908.06,FM=134.01,FH=16.67,FVH=5.7

BL=985.06,BM=161.18,BH=17.38,BVH=5.81

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	5193.93	5135.41	5061.08	4966.86	4825.24	4692.98	4505.12	4334.82	4148.13
45.0	5246.02	5219.68	5174.62	5090.93	5000.81	4893.71	4745.65	4604.61	4447.18
90.0	5236.07	5195.10	5120.78	5042.36	4941.70	4801.24	4668.40	4515.07	4343.60
135.0	5260.65	5257.13	5226.70	5176.37	5088.00	4993.20	4889.03	4762.62	4586.47
180.0	5193.93	5237.82	5254.21	5245.43	5215.00	5144.19	5069.28	4976.23	4835.77
225.0	5246.02	5247.77	5223.78	5181.64	5114.34	5007.83	4902.49	4779.59	4642.65
270.0	5236.07	5255.38	5242.50	5211.49	5143.02	5067.52	4973.30	4864.45	4701.17
315.0	5260.65	5234.90	5191.00	5128.97	5028.31	4928.82	4811.78	4638.55	4475.27
360.0	5193.93	5135.41	5061.08	4966.86	4825.24	4692.98	4505.12	4334.82	4148.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3901.17	3698.68	3495.61	3290.19	3041.47	2847.76	2656.98	2466.78	2236.79
45.0	4229.48	4042.21	3846.16	3643.08	3388.51	3186.61	2990.56	2794.51	2557.49
90.0	4164.52	3925.75	3725.02	3523.70	3273.81	3081.27	2885.22	2645.86	2455.08
135.0	4425.53	4207.24	4024.65	3826.84	3577.54	3376.81	3175.49	2976.51	2735.40
180.0	4705.85	4560.72	4360.57	4178.57	3935.11	3731.45	3524.28	3324.14	3078.93
225.0	4443.67	4270.45	4038.70	3844.99	3643.67	3392.61	3193.05	2999.92	2765.25
270.0	4551.35	4386.32	4208.41	4017.04	3758.37	3554.13	3303.07	3105.26	2908.63
315.0	4297.95	4057.42	3857.86	3654.79	3401.97	3203.58	3008.70	2817.33	2583.83
360.0	3901.17	3698.68	3495.61	3290.19	3041.47	2847.76	2656.98	2466.78	2236.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2058.88	1885.65	1682.58	1535.69	1405.77	1166.35	1166.35	1083.19	983.18
45.0	2373.15	2191.14	1966.41	1797.87	1604.75	1467.80	1344.91	1214.40	1124.28
90.0	2221.57	2038.98	1864.59	1700.14	1514.04	1384.12	1155.35	1155.35	1074.30
135.0	2549.30	2363.20	2174.17	1948.86	1780.31	1621.13	1445.56	1325.01	1221.42
180.0	2882.29	2689.17	2499.55	2277.75	2091.07	1903.80	1698.97	1550.32	1420.40
225.0	2578.56	2389.53	2201.09	2018.50	1802.55	1643.37	1499.40	1160.79	1160.79
270.0	2671.03	2474.39	2239.13	2061.81	1886.82	1720.03	1523.98	1392.89	1278.78
315.0	2397.14	2208.11	2026.11	1808.99	1649.22	1468.39	1165.65	1165.65	1122.87
360.0	2058.88	1885.65	1682.58	1535.69	1405.77	1166.35	1166.35	1083.19	983.18
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	896.33	807.55	715.20	596.87	503.41	412.70	328.90	238.01	176.56
45.0	1043.51	961.58	870.29	752.66	658.44	567.14	475.85	369.92	311.40
90.0	990.73	899.08	803.75	687.41	594.06	503.88	396.96	317.54	231.52
135.0	1109.65	1029.47	942.86	828.15	732.17	637.37	545.49	434.30	351.78
180.0	1278.78	1185.14	1102.62	996.70	904.82	808.84	708.18	587.04	489.89
225.0	1139.49	1039.07	955.20	863.73	742.71	644.92	550.35	437.87	354.18
270.0	1185.14	1100.87	1000.79	908.91	812.35	692.38	596.40	482.87	399.77
315.0	1042.93	963.75	876.49	757.16	661.89	569.48	479.77	375.60	299.23
360.0	896.33	807.55	715.20	596.87	503.41	412.70	328.90	238.01	176.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	128.63	97.44	75.20	67.89	61.86	57.82	54.25	50.80	48.28
45.0	311.40	145.55	103.88	78.83	71.81	67.13	61.62	56.42	53.55
90.0	172.17	123.60	86.50	75.73	70.46	65.49	60.98	55.42	52.49
135.0	295.01	295.01	133.55	97.09	78.77	70.29	65.14	60.75	56.06
180.0	399.77	316.08	295.60	210.27	114.59	85.15	70.05	65.25	59.93
225.0	279.56	212.50	143.20	102.94	80.47	70.46	64.26	59.99	56.53
270.0	320.18	301.45	220.57	122.14	88.90	71.81	66.72	62.03	58.41
315.0	229.82	170.01	111.13	83.75	70.05	65.19	60.98	55.89	52.55
360.0	128.63	97.44	75.20	67.89	61.86	57.82	54.25	50.80	48.28

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	46.06	43.42	41.43	39.68	37.81	35.76	34.18	32.66	31.19
45.0	50.97	47.93	45.71	43.54	41.49	39.15	37.28	35.64	34.06
90.0	49.86	47.40	44.71	42.60	40.15	38.33	36.58	34.47	32.83
135.0	53.20	50.45	47.34	45.12	42.90	40.32	38.45	36.75	35.11
180.0	56.47	53.61	50.50	48.11	45.94	44.07	41.55	39.74	37.92
225.0	52.79	50.27	47.17	44.95	42.96	40.97	38.68	36.93	35.29
270.0	54.78	51.44	48.92	46.64	44.01	42.02	39.62	37.86	36.17
315.0	50.10	47.75	45.06	43.13	41.14	39.39	37.22	35.52	34.00
360.0	46.06	43.42	41.43	39.68	37.81	35.76	34.18	32.66	31.19
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.55	28.15	26.80	25.34	24.35	23.00	22.06	21.19	20.31
45.0	32.13	30.67	28.91	27.56	26.39	24.87	23.76	22.71	21.77
90.0	31.37	29.50	28.09	26.74	25.57	24.46	23.12	22.18	21.24
135.0	33.18	31.66	30.20	28.73	27.10	25.93	24.46	23.35	22.30
180.0	36.23	34.24	32.71	31.25	29.61	28.27	26.98	25.52	24.35
225.0	33.71	31.78	30.37	29.09	27.68	26.16	25.11	23.70	22.71
270.0	34.06	32.54	31.02	29.61	27.97	26.63	25.46	24.35	23.00
315.0	32.13	30.61	29.26	27.62	26.39	24.93	23.82	22.82	21.89
360.0	29.55	28.15	26.80	25.34	24.35	23.00	22.06	21.19	20.31
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.37	18.67	17.91	17.26	16.56	16.04	15.45	14.92	14.46
45.0	20.66	19.90	19.20	18.49	17.62	16.97	16.44	15.68	15.22
90.0	20.19	19.49	18.73	17.85	17.21	16.56	15.98	15.45	14.92
135.0	21.24	20.37	19.66	18.96	18.08	17.38	16.85	16.27	15.57
180.0	23.00	22.12	21.19	20.31	19.43	18.67	17.91	17.26	16.62
225.0	21.77	20.66	19.84	19.14	18.20	17.56	16.97	16.39	15.86
270.0	22.12	21.13	20.01	19.31	18.61	17.73	17.09	16.44	15.80
315.0	20.72	19.84	19.14	18.43	17.62	16.97	16.44	15.86	15.16
360.0	19.37	18.67	17.91	17.26	16.56	16.04	15.45	14.92	14.46
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.05	13.58	13.23	12.99	12.58	12.29	12.00	11.70	11.41
45.0	14.69	14.22	13.87	13.34	13.05	12.76	12.47	12.17	11.82
90.0	14.46	13.99	13.64	13.28	12.93	12.64	12.35	12.00	11.59
135.0	15.10	14.63	14.10	13.75	13.34	12.93	12.64	12.29	12.00
180.0	16.09	15.51	15.04	14.51	14.10	13.64	13.28	12.93	12.52
225.0	15.22	14.75	14.40	13.87	13.46	13.11	12.70	12.41	12.00
270.0	15.27	14.86	14.46	13.87	13.52	13.23	12.87	12.52	12.17
315.0	14.81	14.28	13.87	13.46	13.05	12.76	12.47	12.17	11.82
360.0	14.05	13.58	13.23	12.99	12.58	12.29	12.00	11.70	11.41
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.18	10.71	10.48	10.24	10.07	9.89	9.71	9.66	9.60
45.0	11.53	11.24	10.83	10.53	10.24	10.07	9.83	9.71	9.60
90.0	11.41	11.12	10.65	10.42	10.18	9.95	9.77	9.66	9.60
135.0	11.65	11.35	11.06	10.71	10.36	10.18	10.07	9.83	9.66
180.0	12.23	11.88	11.47	11.24	10.94	10.65	10.36	10.12	9.95
225.0	11.76	11.47	11.18	10.94	10.48	10.30	10.07	9.89	9.89
270.0	11.82	11.53	11.24	11.00	10.53	10.24	10.12	9.89	9.77
315.0	11.53	11.29	10.94	10.53	10.36	10.12	9.95	9.83	9.60
360.0	11.18	10.71	10.48	10.24	10.07	9.89	9.71	9.66	9.60

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.60
90.0	9.60
135.0	9.66
180.0	9.95
225.0	9.60
270.0	9.60
315.0	9.60
360.0	9.60