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NT

Client:

LumCAT: 2-2679-L

Luminaire: 92.70.412.00

Report No: 2024228-B020

Ballast type: AC

Test No: 2024228-C020

Voltage(V): 35.350

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2613.0

Power (W): 19.124

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2211.86, Efficiency(%): 84.65% , Luminous Efficacy(lm/W): 115.66

Central intensity(cd): 7202.569, Maximum intensity(cd): 7202.569

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.6

[C90/270]Total=24.6

Field angle(10%Imax): [C0/180]Total=60.8

[C90/270]Total=60.8

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.47 C90_270=0.47

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.65%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.063%

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	7202.569	0.000	0	0.00%	0.00%
1.0	7151.947	6.868	6.868	0.26%	0.31%
2.0	7013.980	20.332	27.201	0.78%	1.23%
3.0	6812.297	33.068	60.269	1.27%	2.72%
4.0	6510.321	44.595	104.864	1.71%	4.74%
5.0	6182.156	54.602	159.466	2.09%	7.21%
6.0	5847.261	63.218	222.684	2.42%	10.07%
7.0	5488.518	70.361	293.045	2.69%	13.25%
8.0	5110.170	75.853	368.898	2.90%	16.68%
9.0	4735.919	79.797	448.695	3.05%	20.29%
10.0	4384.564	82.537	531.232	3.16%	24.02%
11.0	4031.088	84.090	615.321	3.22%	27.82%
12.0	3712.141	84.645	699.966	3.24%	31.65%
13.0	3393.486	84.326	784.292	3.23%	35.46%
14.0	3089.534	82.982	867.274	3.18%	39.21%
15.0	2843.886	81.457	948.731	3.12%	42.89%
16.0	2605.846	79.854	1028.585	3.06%	46.50%
17.0	2382.290	77.679	1106.263	2.97%	50.02%
18.0	2183.094	75.273	1181.536	2.88%	53.42%
19.0	2022.304	73.165	1254.702	2.80%	56.73%
20.0	1864.293	71.136	1325.837	2.72%	59.94%
21.0	1719.450	68.815	1394.652	2.63%	63.05%
22.0	1598.454	66.675	1461.327	2.55%	66.07%
23.0	1442.009	63.797	1525.124	2.44%	68.95%
24.0	1363.223	61.332	1586.457	2.35%	71.73%
25.0	1226.390	58.882	1645.339	2.25%	74.39%
26.0	1149.923	56.093	1701.432	2.15%	76.92%
27.0	1062.761	54.134	1755.566	2.07%	79.37%
28.0	964.626	51.329	1806.895	1.96%	81.69%
29.0	868.481	47.959	1854.854	1.84%	83.86%
30.0	755.416	43.845	1898.699	1.68%	85.84%
31.0	662.526	39.459	1938.158	1.51%	87.63%
32.0	567.507	35.239	1973.397	1.35%	89.22%
33.0	478.356	30.812	2004.209	1.18%	90.61%
34.0	392.715	26.361	2030.57	1.01%	91.80%
35.0	324.171	22.264	2052.834	0.85%	92.81%
36.0	276.746	19.133	2071.967	0.73%	93.68%
37.0	211.691	15.930	2087.897	0.61%	94.40%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	173.592	12.860	2100.757	0.49%	94.98%
39.0	119.313	9.998	2110.755	0.38%	95.43%
40.0	91.449	7.351	2118.106	0.28%	95.76%
41.0	71.419	5.800	2123.905	0.22%	96.02%
42.0	56.979	4.665	2128.57	0.18%	96.23%
43.0	46.672	3.840	2132.41	0.15%	96.41%
44.0	39.532	3.254	2135.663	0.12%	96.56%
45.0	34.916	2.861	2138.525	0.11%	96.68%
46.0	31.039	2.579	2141.104	0.10%	96.80%
47.0	28.274	2.359	2143.463	0.09%	96.91%
48.0	26.313	2.207	2145.67	0.08%	97.01%
49.0	24.653	2.093	2147.763	0.08%	97.10%
50.0	23.270	1.998	2149.761	0.08%	97.19%
51.0	22.246	1.926	2151.686	0.07%	97.28%
52.0	21.551	1.879	2153.566	0.07%	97.36%
53.0	21.068	1.854	2155.42	0.07%	97.45%
54.0	20.761	1.844	2157.263	0.07%	97.53%
55.0	20.746	1.853	2159.116	0.07%	97.62%
56.0	20.900	1.882	2160.998	0.07%	97.70%
57.0	21.178	1.924	2162.922	0.07%	97.79%
58.0	21.566	1.977	2164.898	0.08%	97.88%
59.0	21.880	2.031	2166.93	0.08%	97.97%
60.0	22.041	2.075	2169.005	0.08%	98.06%
61.0	21.924	2.098	2171.103	0.08%	98.16%
62.0	21.427	2.089	2173.191	0.08%	98.25%
63.0	20.461	2.037	2175.229	0.08%	98.34%
64.0	19.371	1.955	2177.183	0.07%	98.43%
65.0	18.083	1.854	2179.037	0.07%	98.52%
66.0	16.942	1.748	2180.784	0.07%	98.60%
67.0	15.845	1.649	2182.433	0.06%	98.67%
68.0	15.157	1.570	2184.003	0.06%	98.74%
69.0	14.689	1.523	2185.526	0.06%	98.81%
70.0	14.228	1.485	2187.011	0.06%	98.88%
71.0	13.914	1.455	2188.466	0.06%	98.94%
72.0	13.643	1.433	2189.899	0.05%	99.01%
73.0	13.460	1.417	2191.316	0.05%	99.07%
74.0	13.197	1.401	2192.717	0.05%	99.13%
75.0	12.875	1.378	2194.095	0.05%	99.20%

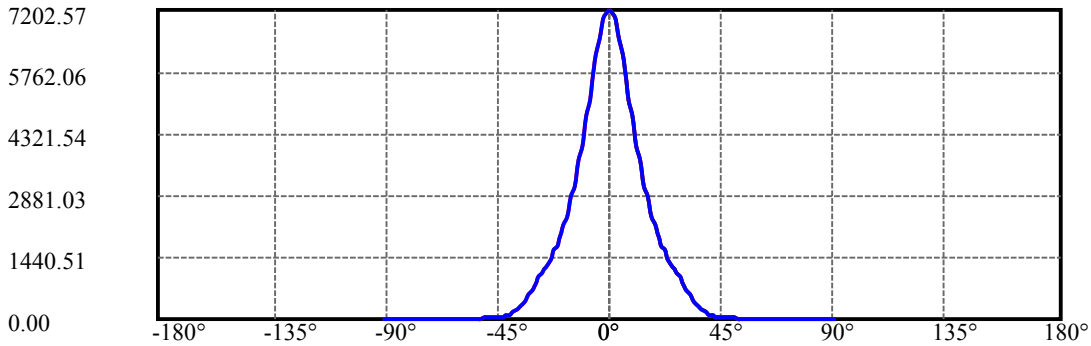
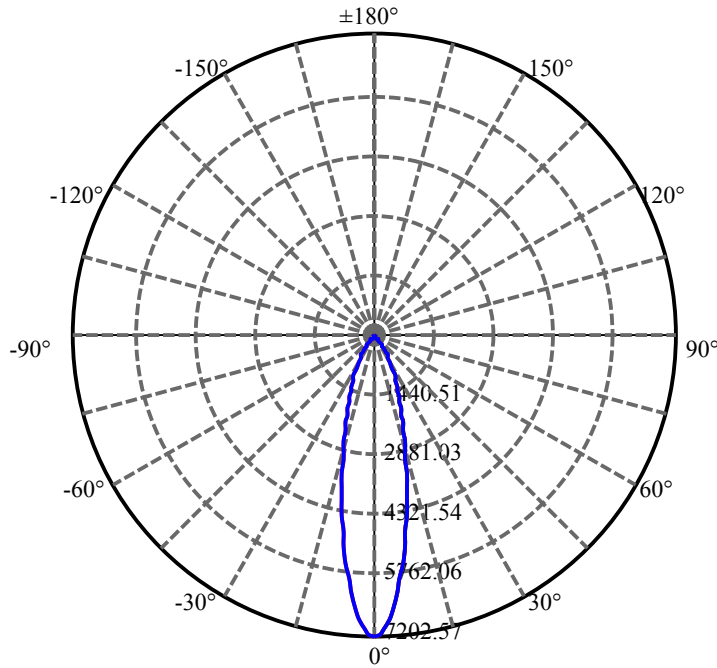
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.568	1.351	2195.446	0.05%	99.26%
77.0	12.275	1.325	2196.77	0.05%	99.32%
78.0	12.004	1.300	2198.07	0.05%	99.38%
79.0	11.705	1.274	2199.344	0.05%	99.43%
80.0	11.434	1.247	2200.591	0.05%	99.49%
81.0	11.222	1.225	2201.816	0.05%	99.55%
82.0	10.958	1.203	2203.019	0.05%	99.60%
83.0	10.724	1.179	2204.198	0.05%	99.65%
84.0	10.527	1.158	2205.355	0.04%	99.71%
85.0	10.256	1.134	2206.49	0.04%	99.76%
86.0	10.037	1.109	2207.599	0.04%	99.81%
87.0	9.839	1.088	2208.687	0.04%	99.86%
88.0	9.678	1.069	2209.756	0.04%	99.90%
89.0	9.568	1.055	2210.811	0.04%	99.95%
90.0	9.525	1.047	2211.858	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1898.70	72.66%	85.84%
0-40	2118.11	81.06%	95.76%
0-60	2169.00	83.01%	98.06%
0-90	2210.81	84.61%	99.95%
0-120	2210.81	84.61%	99.95%
0-180	2211.86	84.65%	100.00%
60-90	41.81	1.60%	1.89%
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%
0-27.27	1769.49	67.72%	80.00%

ZONAL LUMEN SUMMARY

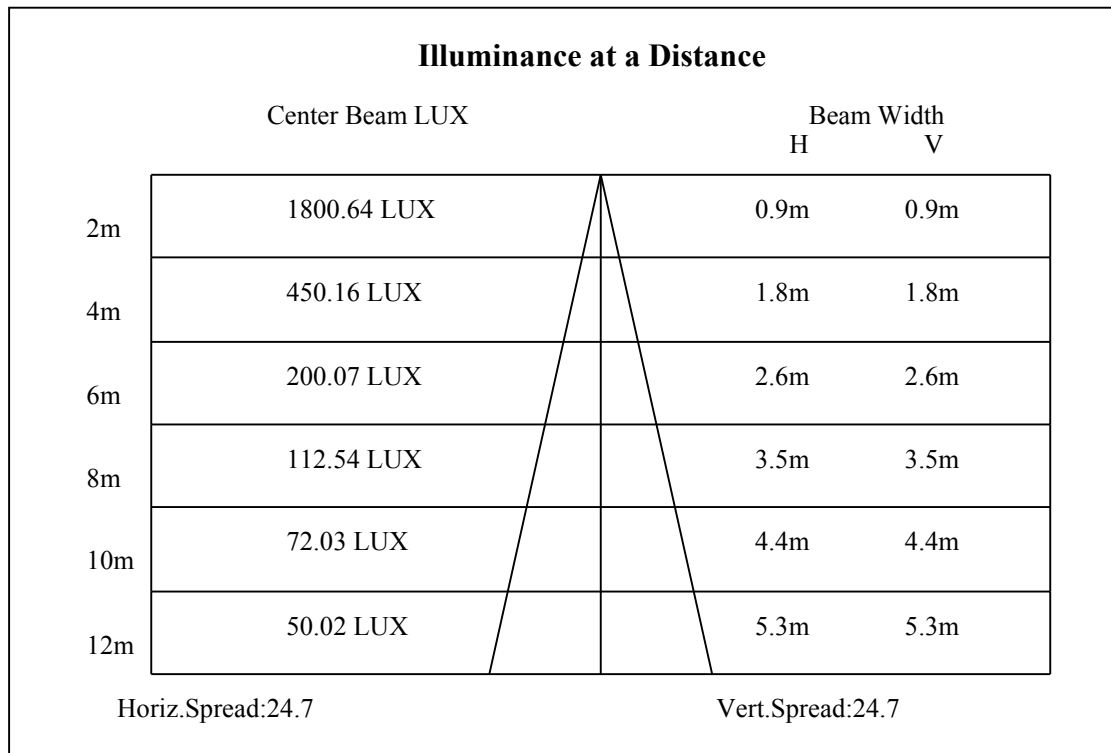
0-10	531.23
10-20	794.61
20-30	572.86
30-40	219.41
40-50	31.65
50-60	19.24
60-70	18.01
70-80	13.58
80-90	10.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

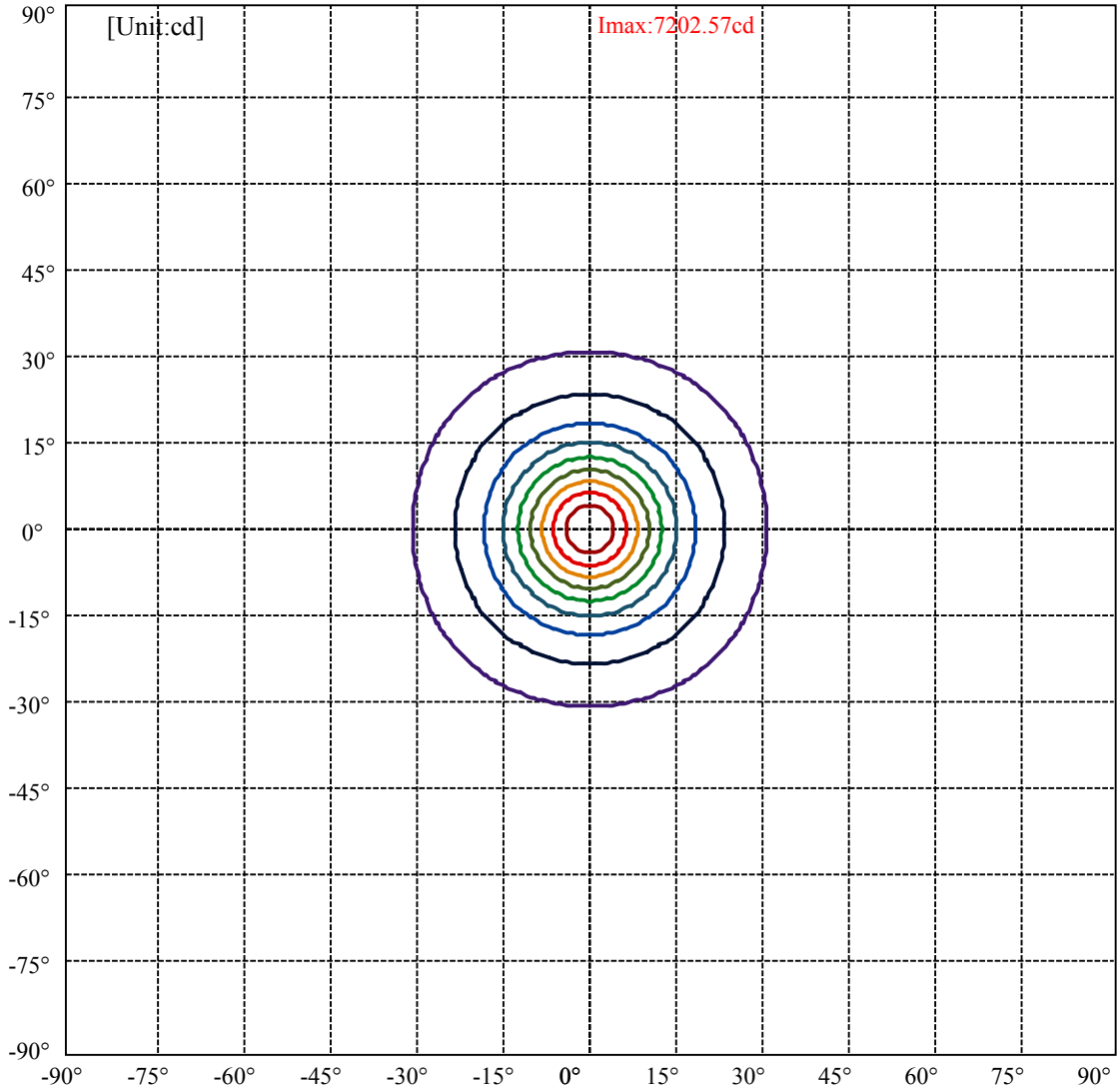


C0(Max): ———
C0/C180: ———
C90/C270: ———

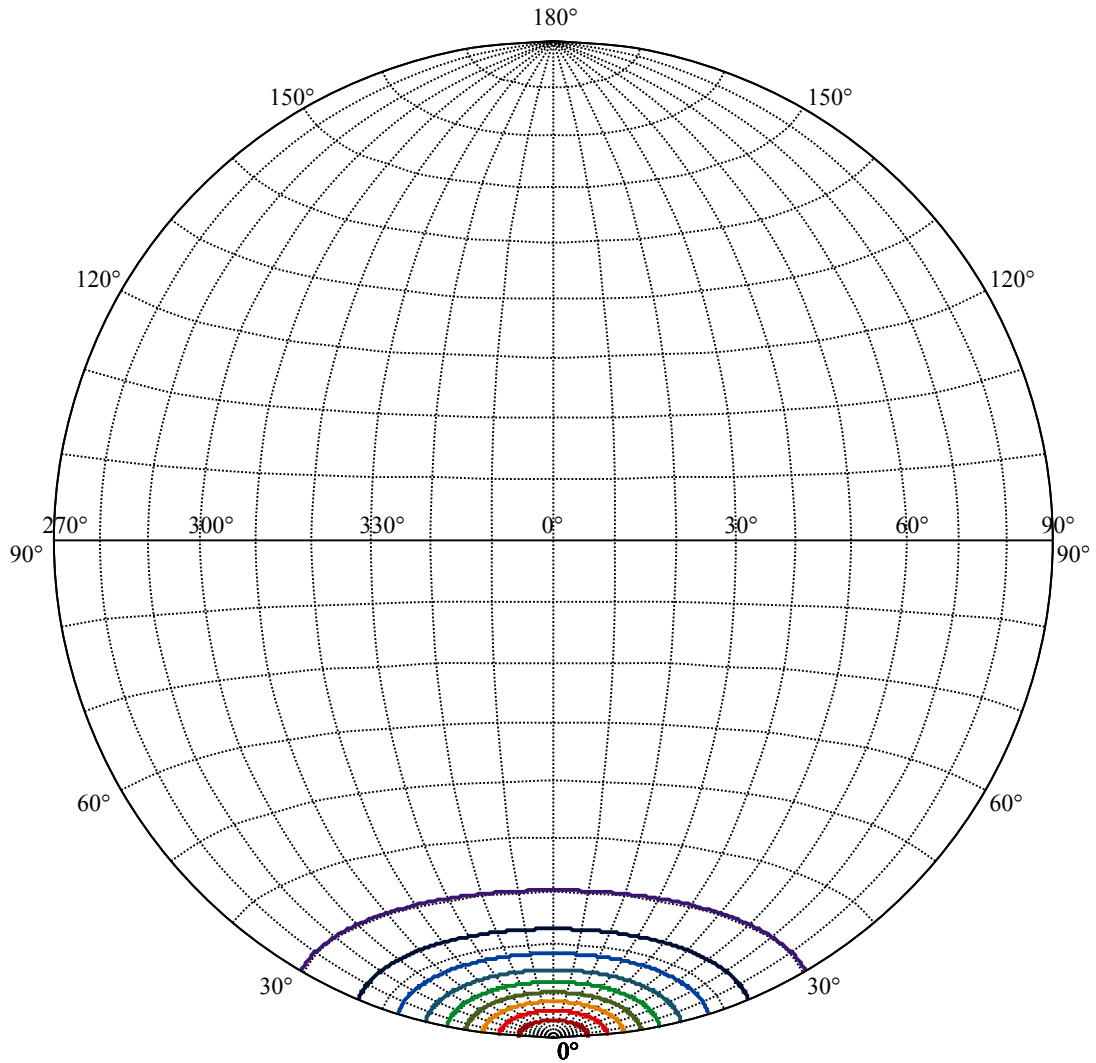
Field angle(10%Imax):C0/180Left:30.4 Right:30.4
:C90/270Left:30.4 Right:30.4

Beam Angle(50%Imax):C0/180Left:12.3 Right:12.3
:C90/270Left:12.3 Right:12.3





(10%Imax) 720.257	—
(20%Imax) 1440.51	—
(30%Imax) 2160.77	—
(40%Imax) 2881.03	—
(50%Imax) 3601.28	—
(60%Imax) 4321.54	—
(70%Imax) 5041.8	—
(80%Imax) 5762.06	—
(90%Imax) 6482.31	—



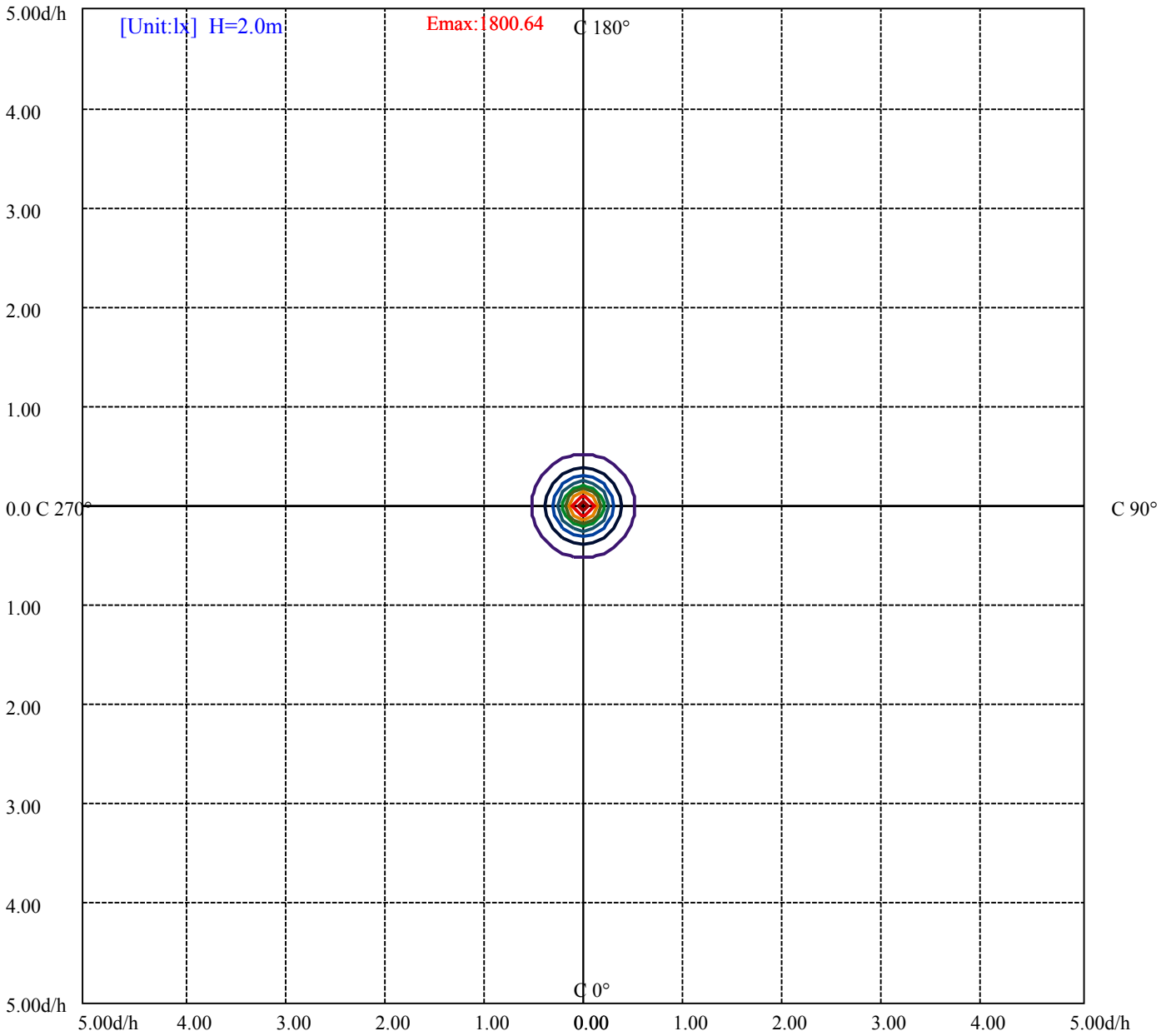
House

[Unit:cd]

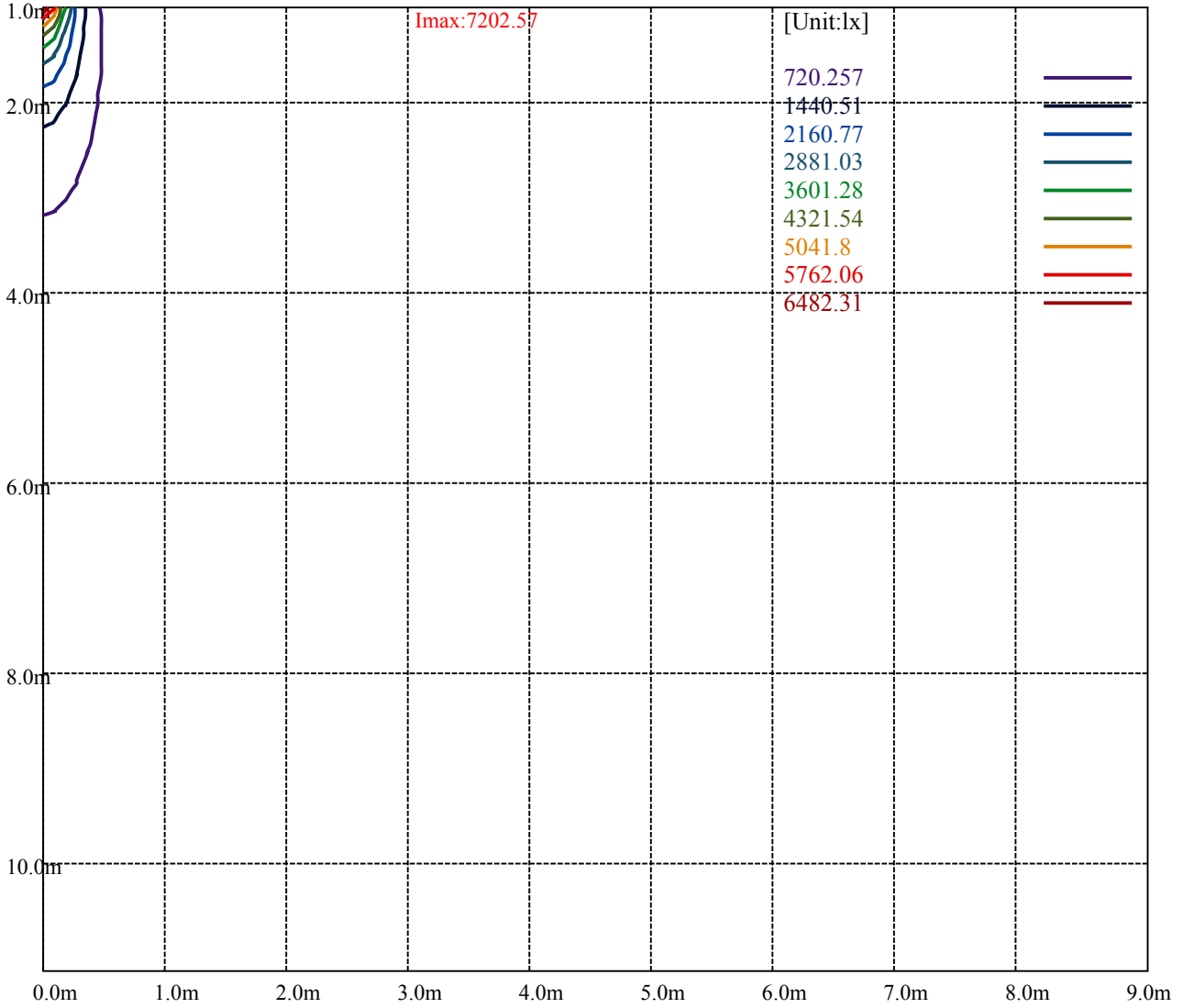
Road

Imax:7202.57

(10%Imax) 720.257	—
(20%Imax) 1440.51	—
(30%Imax) 2160.77	—
(40%Imax) 2881.03	—
(50%Imax) 3601.28	—
(60%Imax) 4321.54	—
(70%Imax) 5041.8	—
(80%Imax) 5762.06	—
(90%Imax) 6482.31	—



(10%Emax) 180.064	—
(20%Emax) 360.1275	—
(30%Emax) 540.1925	—
(40%Emax) 720.255	—
(50%Emax) 900.32	—
(60%Emax) 1080.385	—
(70%Emax) 1260.448	—
(80%Emax) 1440.512	—
(90%Emax) 1620.575	—



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

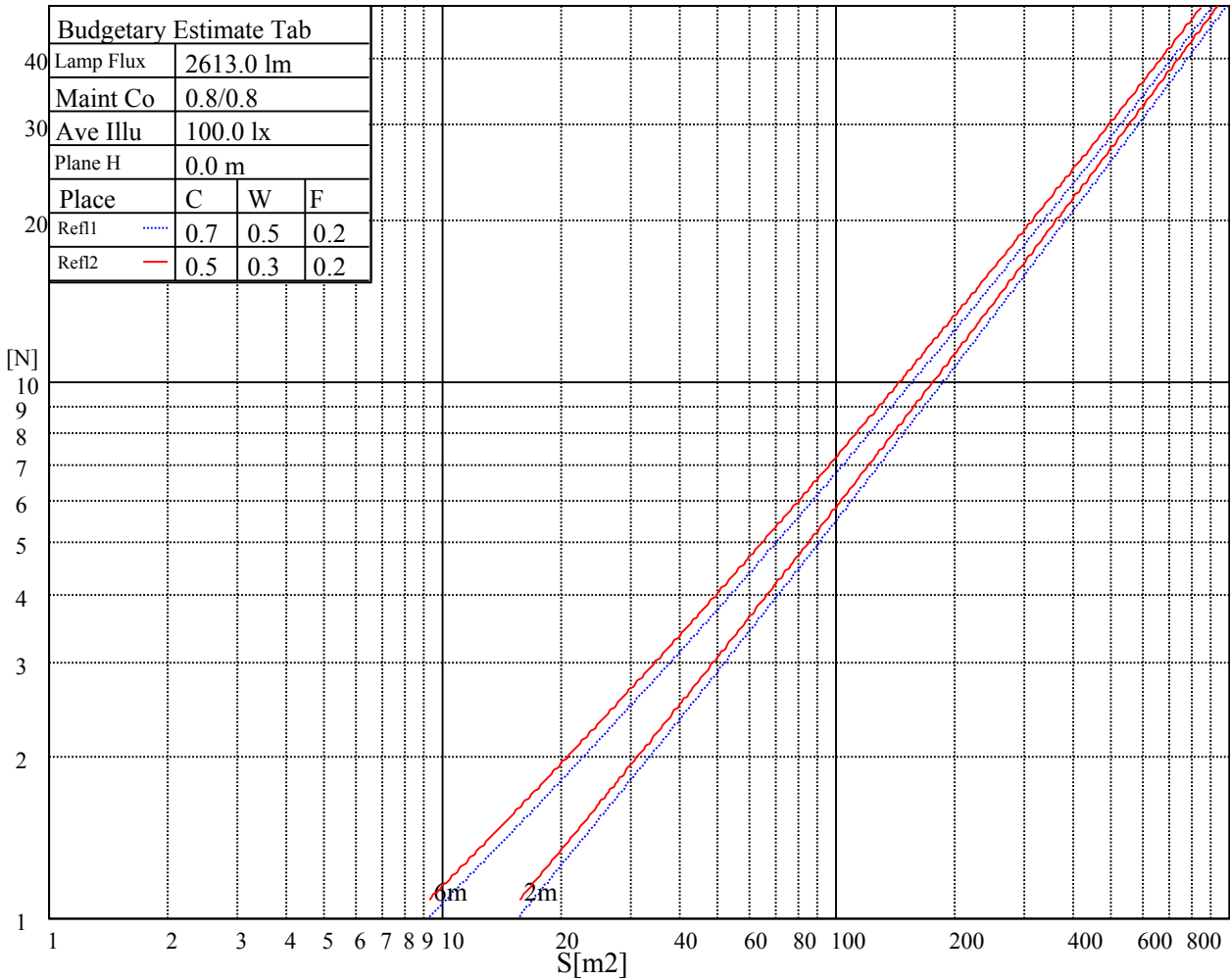
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

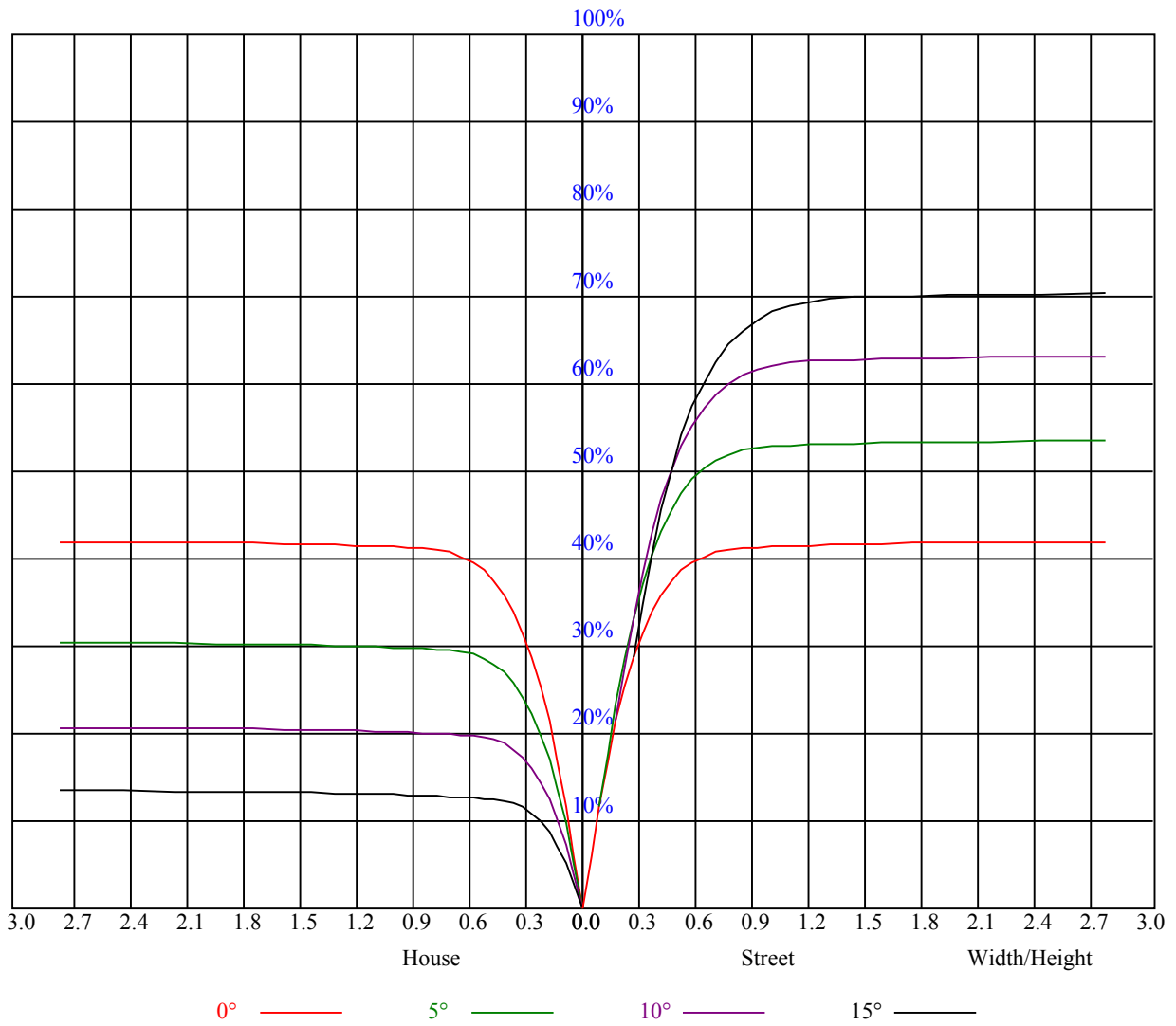


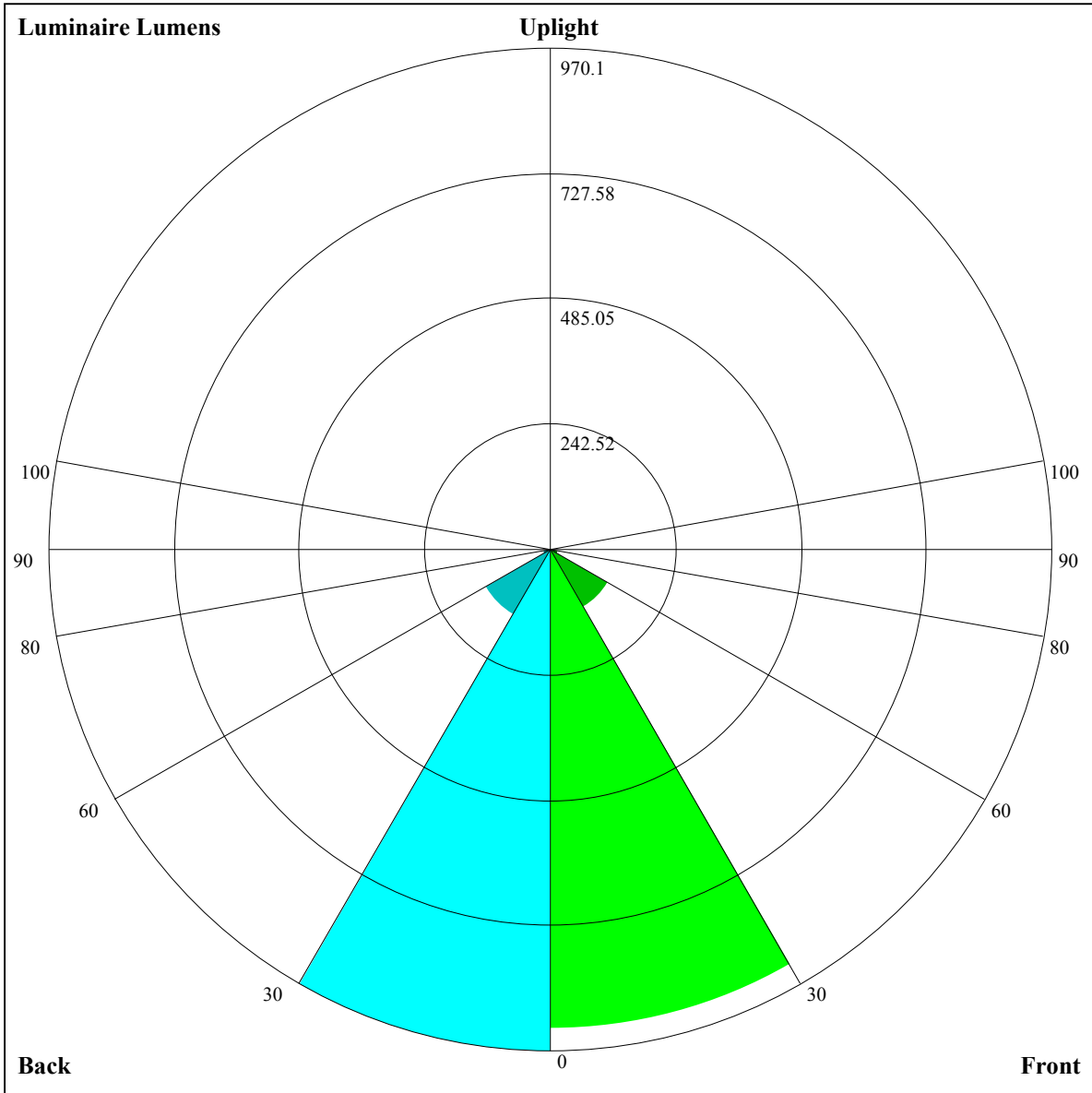
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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
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	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	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	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	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	0.98	0.98	0.98	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	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.83	0.87	0.85	0.82	0.85	0.83	0.81	0.82	0.80	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.72	0.70	0.67	0.71	0.69	0.67	0.66
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
7	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	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
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.55
10	0.62	0.57	0.55	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.53





Luminaire Lumens:

FL=927.24,FM=126.87,FH=15.66,FVH=5.6

BL=970.1,BM=146.49,BH=16.02,BVH=5.67

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	7136.29	6974.77	6756.48	6480.84	6154.87	5738.19	5389.40	5036.50	4593.49
45.0	7253.34	7187.21	6989.99	6740.68	6367.89	6045.43	5701.91	5349.02	4911.85
90.0	7163.21	6913.32	6654.07	6370.23	5964.67	5625.83	5282.88	4861.52	4534.97
135.0	7257.43	7158.53	6952.53	6698.54	6336.87	6011.49	5593.64	5257.72	4927.65
180.0	7136.29	7245.14	7247.48	7139.22	6878.21	6613.10	6322.24	5916.10	5567.30
225.0	7253.34	7247.48	7115.81	6909.22	6638.27	6264.31	5938.92	5590.13	5230.80
270.0	7163.21	7253.34	7254.51	7182.52	6984.13	6746.53	6456.85	6146.09	5718.88
315.0	7257.43	7235.78	7140.97	6977.11	6757.65	6412.37	6092.25	5751.06	5396.42
360.0	7136.29	6974.77	6756.48	6480.84	6154.87	5738.19	5389.40	5036.50	4593.49
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4258.16	3945.65	3557.64	3270.88	3008.12	2710.82	2497.80	2304.67	2091.65
45.0	4571.25	4251.13	3932.77	3549.45	3265.03	2999.34	2759.98	2486.68	2295.31
90.0	4204.90	3805.78	3502.63	3222.31	2964.81	2672.20	2461.51	2274.24	2108.04
135.0	4522.09	4188.51	3872.49	3572.86	3222.89	2963.64	2727.79	2515.36	2284.19
180.0	5134.24	4809.44	4485.22	4145.21	3749.60	3453.47	3182.51	2934.96	2707.89
225.0	4879.08	4466.50	4141.11	3822.16	3453.47	3179.59	2929.69	2642.93	2440.45
270.0	5368.33	5015.44	4581.20	4251.72	3928.67	3536.57	3249.81	2984.12	2689.75
315.0	4949.31	4594.07	4175.64	3862.54	3555.30	3200.65	2941.98	2703.80	2441.03
360.0	4258.16	3945.65	3557.64	3270.88	3008.12	2710.82	2497.80	2304.67	2091.65
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1940.08	1798.45	1671.46	1522.81	1413.38	1162.90	1162.90	1087.93	994.53
45.0	2085.22	1936.57	1800.21	1644.54	1532.76	1428.59	1330.86	1206.21	1114.33
90.0	1926.03	1793.77	1641.03	1532.18	1429.18	1160.79	1160.79	1118.54	1004.60
135.0	2126.18	1980.46	1813.09	1693.70	1584.26	1455.51	1357.78	1237.22	1143.59
180.0	2454.49	2269.56	2060.64	1921.94	1796.11	1649.81	1539.20	1437.96	1319.16
225.0	2212.21	2050.69	1906.14	1773.88	1624.06	1516.38	1416.89	1155.82	1155.82
270.0	2470.29	2270.15	2098.09	1915.50	1782.07	1652.73	1533.35	1407.52	1307.45
315.0	2250.25	2078.78	1923.69	1751.05	1625.81	1509.35	1404.01	1159.92	1159.92
360.0	1940.08	1798.45	1671.46	1522.81	1413.38	1162.90	1162.90	1087.93	994.53
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	876.49	783.56	690.39	577.97	492.17	412.88	325.62	264.87	210.80
45.0	1019.52	921.20	804.74	712.28	619.81	510.96	430.78	358.80	309.06
90.0	908.97	817.21	723.34	607.99	519.27	437.63	364.48	282.96	225.43
135.0	1050.54	956.90	862.09	743.88	650.24	559.53	474.68	380.45	313.74
180.0	1230.79	1140.66	1049.95	933.49	838.69	741.54	644.39	530.86	446.59
225.0	1111.52	1022.62	931.09	815.86	720.53	604.36	515.82	435.00	344.29
270.0	1214.40	1102.62	1006.06	891.36	795.38	700.57	585.28	498.67	420.84
315.0	1089.86	972.23	880.18	760.50	664.11	572.58	485.80	390.11	322.63
360.0	876.49	783.56	690.39	577.97	492.17	412.88	325.62	264.87	210.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	166.03	129.86	95.33	75.55	60.98	50.62	41.67	36.64	32.13
45.0	309.06	169.36	122.90	94.98	74.79	57.53	47.93	41.02	36.28
90.0	177.44	129.51	100.13	78.83	60.10	49.63	42.19	35.76	32.07
135.0	297.94	226.07	144.38	113.01	84.10	67.48	52.73	44.36	38.33
180.0	369.92	300.86	300.86	172.00	124.24	95.98	75.08	57.35	47.58
225.0	280.21	223.38	164.57	127.11	98.49	77.02	61.74	48.81	41.73
270.0	350.02	303.21	303.21	170.36	133.31	97.91	77.13	61.92	48.81
315.0	263.35	211.27	157.37	122.66	95.57	75.20	57.35	47.52	39.33
360.0	166.03	129.86	95.33	75.55	60.98	50.62	41.67	36.64	32.13

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	29.38	26.69	24.99	23.64	22.47	21.48	20.89	20.60	20.42
45.0	32.71	29.32	27.27	25.52	23.82	22.77	21.95	21.24	20.89
90.0	29.38	27.27	25.16	23.88	22.88	22.06	21.30	21.01	20.83
135.0	34.12	30.20	27.86	26.04	24.52	23.06	22.24	21.65	21.24
180.0	40.56	34.53	31.13	28.56	26.51	24.93	23.35	22.30	21.54
225.0	36.69	32.19	29.44	27.27	25.16	23.82	22.53	21.77	21.19
270.0	41.67	36.69	32.13	29.38	27.27	25.11	23.76	22.65	21.83
315.0	34.82	31.43	28.21	26.22	24.58	22.94	21.95	21.19	20.60
360.0	29.38	26.69	24.99	23.64	22.47	21.48	20.89	20.60	20.42
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.42	20.72	21.07	21.48	22.00	22.18	21.95	21.42	20.37
45.0	20.72	20.72	20.95	21.30	21.77	22.18	22.30	22.12	21.42
90.0	20.89	21.19	21.59	22.00	22.36	22.36	22.06	21.30	20.31
135.0	21.07	21.13	21.48	21.83	22.24	22.59	22.53	22.18	21.36
180.0	20.83	20.60	20.54	20.72	21.01	21.42	21.89	22.12	22.06
225.0	20.83	20.72	20.72	20.95	21.24	21.59	22.06	22.12	21.89
270.0	21.01	20.72	20.60	20.60	20.89	21.24	21.65	22.12	22.24
315.0	20.31	20.19	20.25	20.54	21.01	21.48	21.89	22.00	21.77
360.0	20.42	20.72	21.07	21.48	22.00	22.18	21.95	21.42	20.37
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.90	17.62	16.33	15.39	14.51	13.99	13.64	13.34	12.99
45.0	20.42	19.25	17.62	16.39	15.51	14.69	14.22	13.93	13.87
90.0	18.73	17.38	16.33	15.57	15.45	15.86	16.33	15.98	15.39
135.0	20.07	18.84	17.44	16.33	15.27	14.57	14.10	13.64	13.34
180.0	21.65	20.78	19.66	18.38	16.80	15.80	14.98	14.22	13.81
225.0	21.13	20.07	18.61	17.32	16.21	15.22	14.63	14.16	13.81
270.0	21.89	21.24	20.13	18.96	17.26	16.21	15.33	14.81	14.69
315.0	20.89	19.78	18.55	17.21	15.74	14.92	14.28	13.75	13.40
360.0	18.90	17.62	16.33	15.39	14.51	13.99	13.64	13.34	12.99
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.82	12.64	12.41	12.23	12.00	11.70	11.47	11.18	10.89
45.0	13.81	13.64	13.46	13.05	12.82	12.41	12.06	11.70	11.47
90.0	14.81	14.05	13.52	12.82	12.17	11.94	11.70	11.47	11.18
135.0	13.05	12.82	12.64	12.41	12.23	12.00	11.82	11.65	11.41
180.0	13.58	13.93	13.87	13.52	13.23	12.82	12.47	12.00	11.65
225.0	13.69	13.99	13.81	13.58	13.23	12.93	12.47	12.06	11.76
270.0	14.34	13.81	13.23	12.99	12.70	12.41	12.23	12.00	11.82
315.0	13.05	12.82	12.64	12.41	12.17	12.00	11.82	11.59	11.29
360.0	12.82	12.64	12.41	12.23	12.00	11.70	11.47	11.18	10.89
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.71	10.53	10.42	10.18	10.01	9.83	9.71	9.60	9.48
45.0	11.24	10.94	10.59	10.42	10.12	9.89	9.71	9.60	9.48
90.0	11.00	10.71	10.48	10.24	9.95	9.71	9.66	9.48	9.48
135.0	11.24	11.00	10.83	10.71	10.18	9.89	9.71	9.54	9.42
180.0	11.41	11.12	10.89	10.71	10.53	10.42	10.12	9.83	9.71
225.0	11.47	11.12	10.83	10.59	10.42	10.12	9.89	9.77	9.60
270.0	11.59	11.35	11.06	10.83	10.53	10.30	10.01	9.83	9.71
315.0	11.12	10.89	10.71	10.53	10.30	10.12	9.89	9.77	9.66
360.0	10.71	10.53	10.42	10.18	10.01	9.83	9.71	9.60	9.48

Intensity data(cd)

C/γ(°)	90.0
0.0	9.54
45.0	9.48
90.0	9.48
135.0	9.42
180.0	9.60
225.0	9.54
270.0	9.60
315.0	9.54
360.0	9.54