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NT

Client:

LumCAT: 3-2833-L

Luminaire: 92.70.412.00

Report No: 2024228-B006

Ballast type: AC

Test No: 2024228-C006

Voltage(V): 35.580

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.541

Lamp flux(lm): 2613.0

Power (W): 19.248

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2238.34, Efficiency(%): 85.66% , Luminous Efficacy(lm/W): 116.29

Central intensity(cd): 7656.557, Maximum intensity(cd): 7656.557

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

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

[C90/270]Total=24.6

Field angle(10%Imax): [C0/180]Total=59.4

[C90/270]Total=59.4

Maximum s/h(1/2): C0\_180=0.41 C90\_270=0.41

Maximum s/h(1/4): C0\_180=0.45 C90\_270=0.45

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.66%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.975%

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	7656.557	0.000	0	0.00%	0.00%
1.0	7628.832	7.314	7.314	0.28%	0.33%
2.0	7531.831	21.760	29.074	0.83%	1.30%
3.0	7369.358	35.639	64.713	1.36%	2.89%
4.0	7131.245	48.538	113.251	1.86%	5.06%
5.0	6840.534	60.106	173.357	2.30%	7.74%
6.0	6471.989	69.961	243.317	2.68%	10.87%
7.0	6063.063	77.805	321.122	2.98%	14.35%
8.0	5651.942	83.842	404.964	3.21%	18.09%
9.0	5203.587	87.978	492.942	3.37%	22.02%
10.0	4786.760	90.409	583.351	3.46%	26.06%
11.0	4332.260	91.118	674.469	3.49%	30.13%
12.0	3959.252	90.638	765.107	3.47%	34.18%
13.0	3559.836	89.233	854.34	3.41%	38.17%
14.0	3222.600	86.815	941.155	3.32%	42.05%
15.0	2935.328	84.539	1025.693	3.24%	45.82%
16.0	2652.591	81.879	1107.572	3.13%	49.48%
17.0	2403.870	78.743	1186.315	3.01%	53.00%
18.0	2179.363	75.568	1261.882	2.89%	56.38%
19.0	1991.872	72.571	1334.453	2.78%	59.62%
20.0	1812.720	69.635	1404.088	2.66%	62.73%
21.0	1625.426	66.019	1470.107	2.53%	65.68%
22.0	1478.820	62.381	1532.488	2.39%	68.47%
23.0	1345.176	59.255	1591.743	2.27%	71.11%
24.0	1221.248	56.111	1647.855	2.15%	73.62%
25.0	1135.168	53.580	1701.434	2.05%	76.01%
26.0	1045.600	51.477	1752.912	1.97%	78.31%
27.0	960.954	49.091	1802.002	1.88%	80.51%
28.0	889.374	46.846	1848.849	1.79%	82.60%
29.0	822.797	44.795	1893.644	1.71%	84.60%
30.0	739.644	42.186	1935.83	1.61%	86.49%
31.0	652.840	38.751	1974.58	1.48%	88.22%
32.0	557.332	34.670	2009.25	1.33%	89.77%
33.0	451.040	29.707	2038.957	1.14%	91.09%
34.0	354.017	24.363	2063.321	0.93%	92.18%
35.0	273.351	19.484	2082.805	0.75%	93.05%
36.0	201.961	15.134	2097.939	0.58%	93.73%
37.0	150.520	11.496	2109.435	0.44%	94.24%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	101.749	8.420	2117.855	0.32%	94.62%
39.0	80.022	6.204	2124.059	0.24%	94.89%
40.0	71.368	5.280	2129.339	0.20%	95.13%
41.0	65.457	4.872	2134.212	0.19%	95.35%
42.0	60.081	4.561	2138.773	0.17%	95.55%
43.0	55.187	4.270	2143.042	0.16%	95.74%
44.0	50.710	3.997	2147.039	0.15%	95.92%
45.0	46.928	3.752	2150.792	0.14%	96.09%
46.0	43.665	3.543	2154.334	0.14%	96.25%
47.0	40.615	3.352	2157.686	0.13%	96.40%
48.0	38.230	3.187	2160.874	0.12%	96.54%
49.0	35.969	3.047	2163.921	0.12%	96.68%
50.0	34.287	2.929	2166.85	0.11%	96.81%
51.0	32.641	2.832	2169.682	0.11%	96.93%
52.0	31.441	2.750	2172.431	0.11%	97.06%
53.0	30.402	2.690	2175.122	0.10%	97.18%
54.0	29.612	2.645	2177.767	0.10%	97.29%
55.0	28.932	2.613	2180.38	0.10%	97.41%
56.0	28.369	2.589	2182.969	0.10%	97.53%
57.0	27.769	2.567	2185.536	0.10%	97.64%
58.0	27.147	2.540	2188.076	0.10%	97.75%
59.0	26.240	2.496	2190.572	0.10%	97.87%
60.0	25.267	2.433	2193.005	0.09%	97.97%
61.0	24.104	2.356	2195.361	0.09%	98.08%
62.0	22.999	2.270	2197.631	0.09%	98.18%
63.0	21.822	2.180	2199.811	0.08%	98.28%
64.0	20.636	2.083	2201.894	0.08%	98.37%
65.0	19.561	1.989	2203.883	0.08%	98.46%
66.0	18.530	1.900	2205.784	0.07%	98.55%
67.0	17.571	1.815	2207.599	0.07%	98.63%
68.0	16.686	1.735	2209.335	0.07%	98.70%
69.0	16.021	1.669	2211.003	0.06%	98.78%
70.0	15.355	1.611	2212.614	0.06%	98.85%
71.0	14.850	1.561	2214.176	0.06%	98.92%
72.0	14.433	1.523	2215.698	0.06%	98.99%
73.0	14.031	1.488	2217.187	0.06%	99.05%
74.0	13.672	1.456	2218.643	0.06%	99.12%
75.0	13.328	1.427	2220.07	0.05%	99.18%

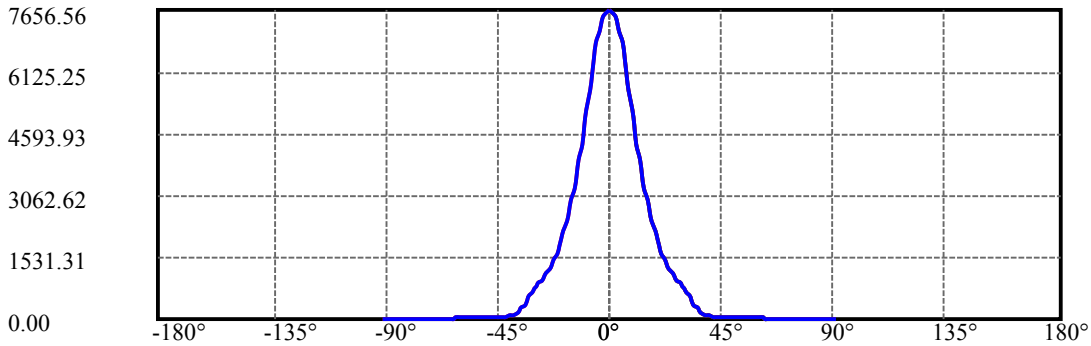
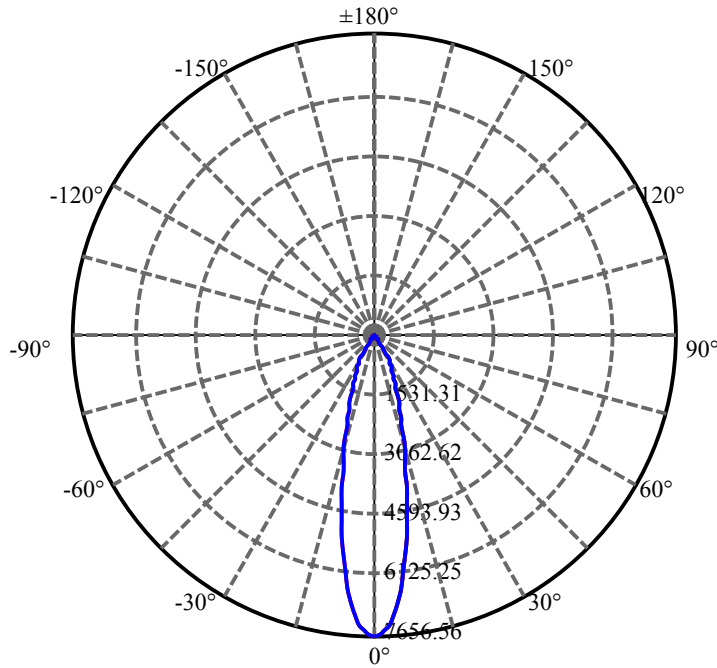
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.021	1.399	2221.468	0.05%	99.25%
77.0	12.692	1.371	2222.839	0.05%	99.31%
78.0	12.407	1.344	2224.183	0.05%	99.37%
79.0	12.107	1.317	2225.5	0.05%	99.43%
80.0	11.800	1.289	2226.789	0.05%	99.48%
81.0	11.536	1.262	2228.051	0.05%	99.54%
82.0	11.251	1.236	2229.287	0.05%	99.60%
83.0	10.973	1.208	2230.495	0.05%	99.65%
84.0	10.739	1.183	2231.678	0.05%	99.70%
85.0	10.519	1.160	2232.838	0.04%	99.75%
86.0	10.300	1.138	2233.976	0.04%	99.81%
87.0	10.095	1.116	2235.092	0.04%	99.85%
88.0	9.912	1.096	2236.188	0.04%	99.90%
89.0	9.795	1.080	2237.268	0.04%	99.95%
90.0	9.737	1.071	2238.339	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1935.83	74.08%	86.49%
0-40	2129.34	81.49%	95.13%
0-60	2193.00	83.93%	97.97%
0-90	2237.27	85.62%	99.95%
0-120	2237.27	85.62%	99.95%
0-180	2238.34	85.66%	100.00%
60-90	44.26	1.69%	1.98%
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%
0-26.77	1790.67	68.53%	80.00%

ZONAL LUMEN SUMMARY

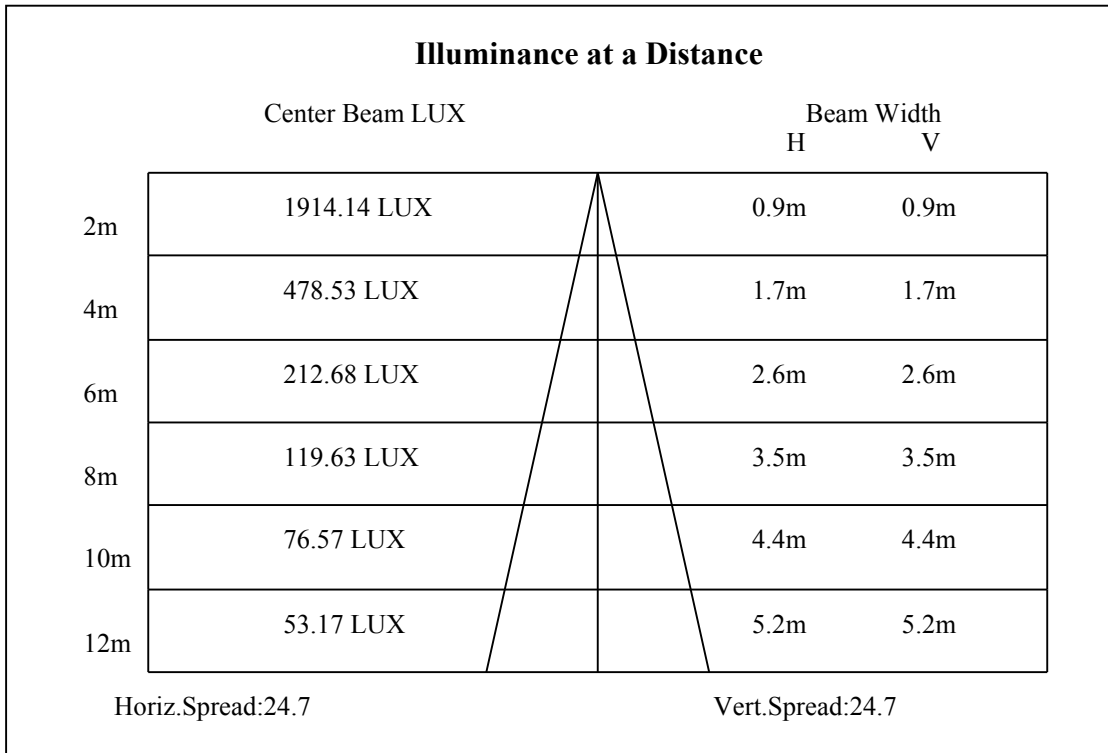
0-10	583.35
10-20	820.74
20-30	531.74
30-40	193.51
40-50	37.51
50-60	26.15
60-70	19.61
70-80	14.17
80-90	10.48
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

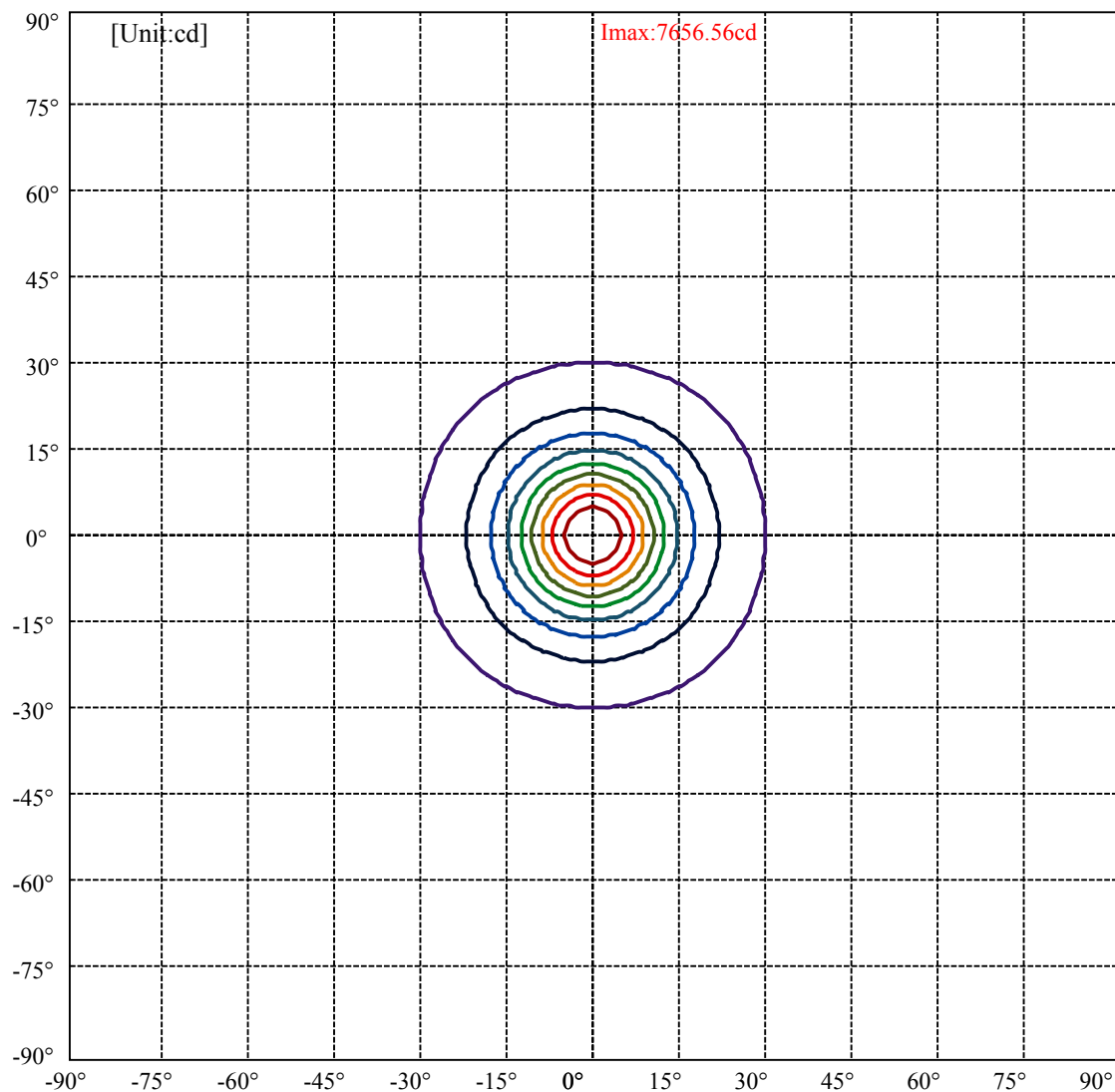


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:29.7 Right:29.7  
:C90/270Left:29.7 Right:29.7

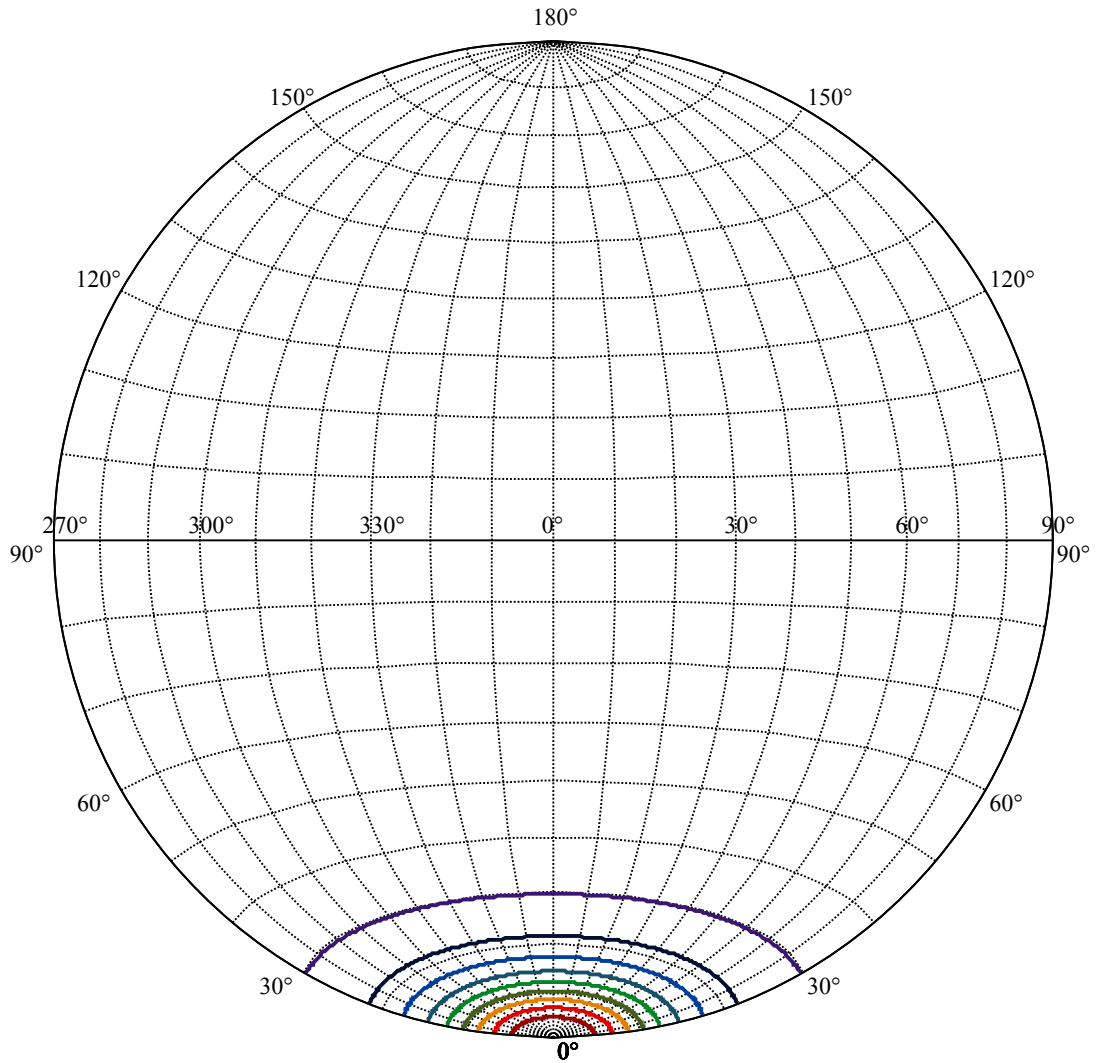
Beam Angle(50%Imax):C0/180Left:12.3 Right:12.3  
:C90/270Left:12.3 Right:12.3





(10%Imax) 765.656	—
(20%Imax) 1531.31	—
(30%Imax) 2296.97	—
(40%Imax) 3062.62	—
(50%Imax) 3828.28	—
(60%Imax) 4593.93	—
(70%Imax) 5359.59	—
(80%Imax) 6125.25	—
(90%Imax) 6890.9	—





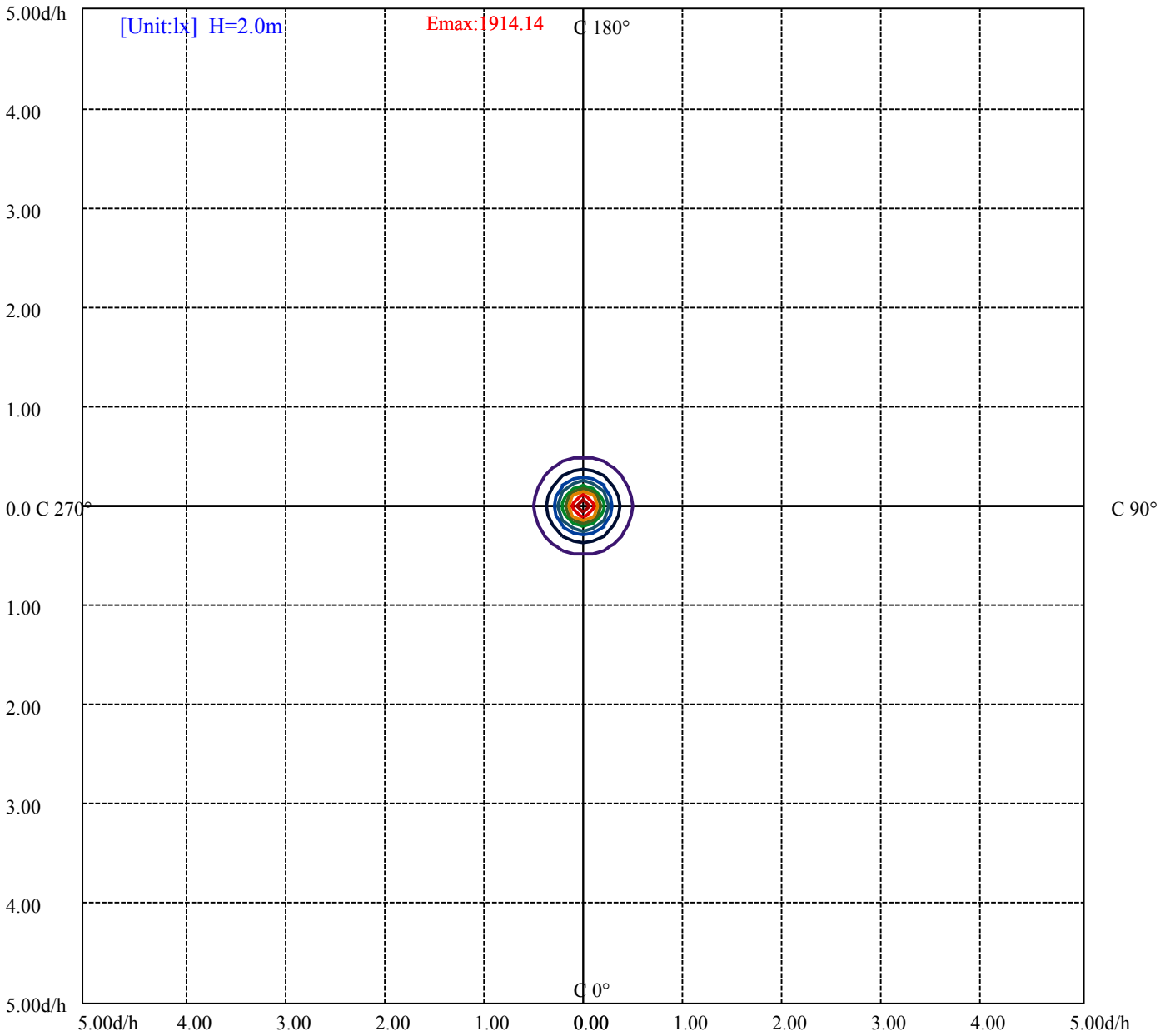
House

[Unit:cd]

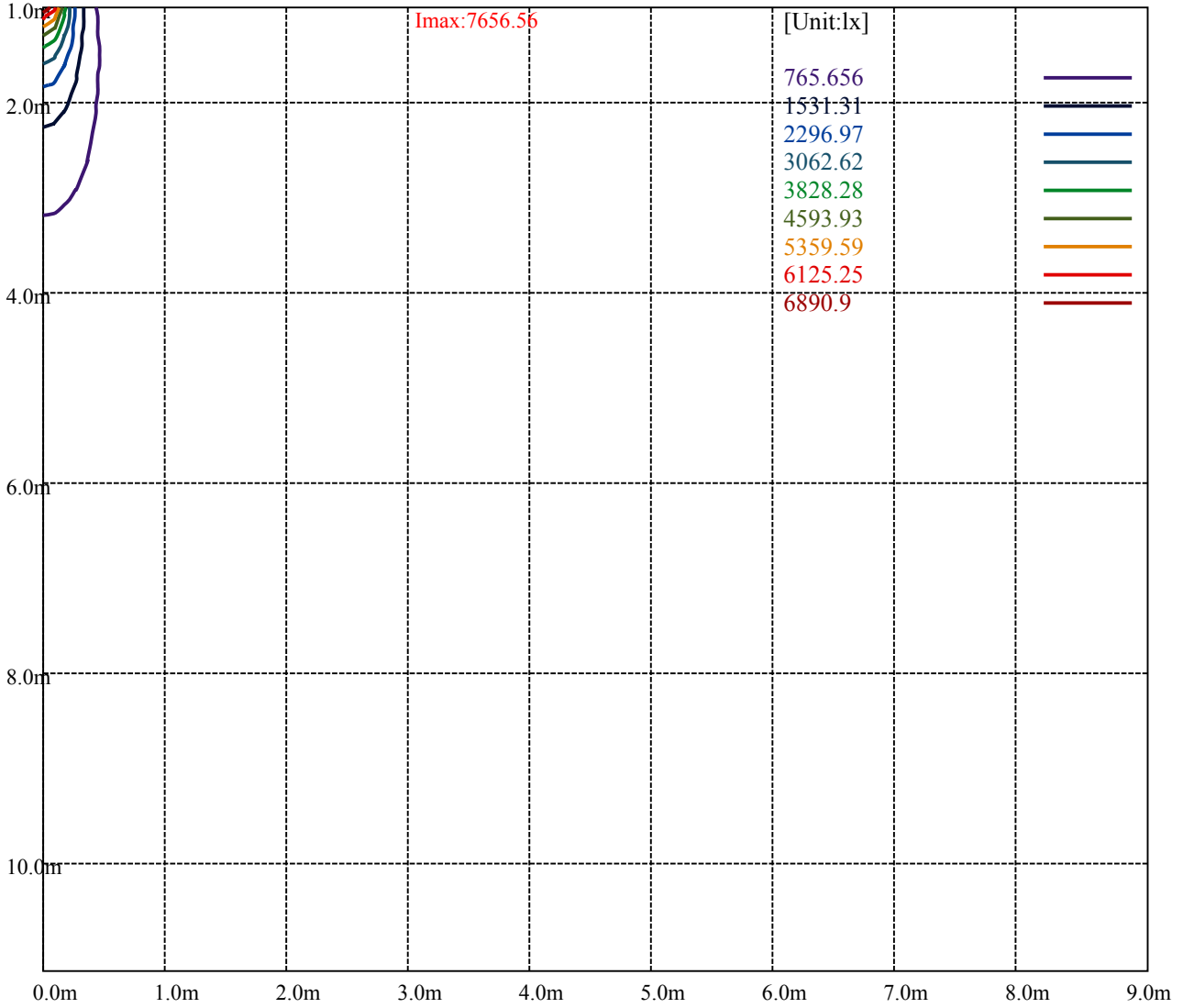
Road

**Imax:7656.56**

(10%Imax)	765.656	—
(20%Imax)	1531.31	—
(30%Imax)	2296.97	—
(40%Imax)	3062.62	—
(50%Imax)	3828.28	—
(60%Imax)	4593.93	—
(70%Imax)	5359.59	—
(80%Imax)	6125.25	—
(90%Imax)	6890.9	—



- (10%Emax) 191.4138
- (20%Emax) 382.8275
- (30%Emax) 574.2425
- (40%Emax) 765.655
- (50%Emax) 957.07
- (60%Emax) 1148.483
- (70%Emax) 1339.897
- (80%Emax) 1531.31
- (90%Emax) 1722.725



Luminance Table

$\gamma$	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

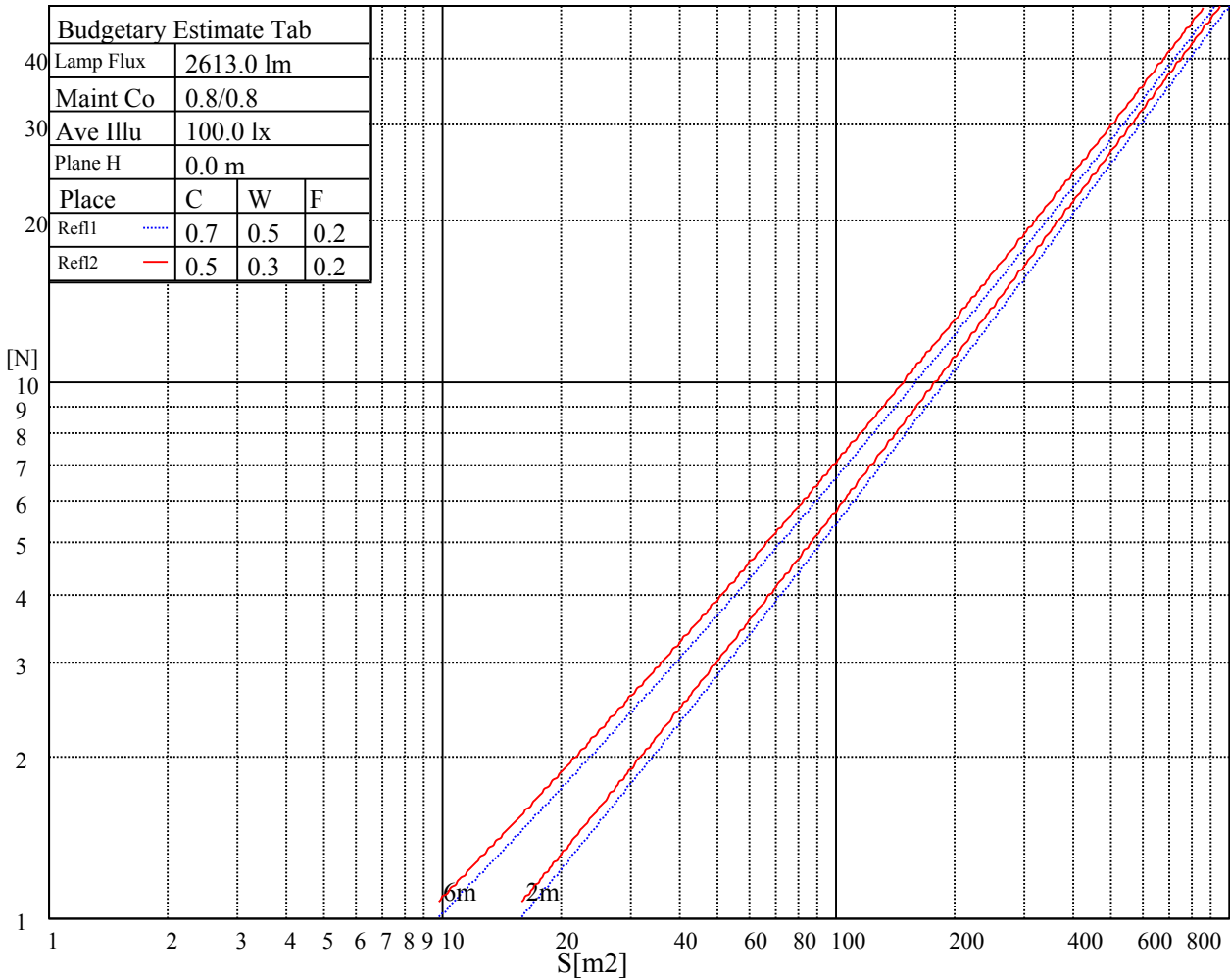
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

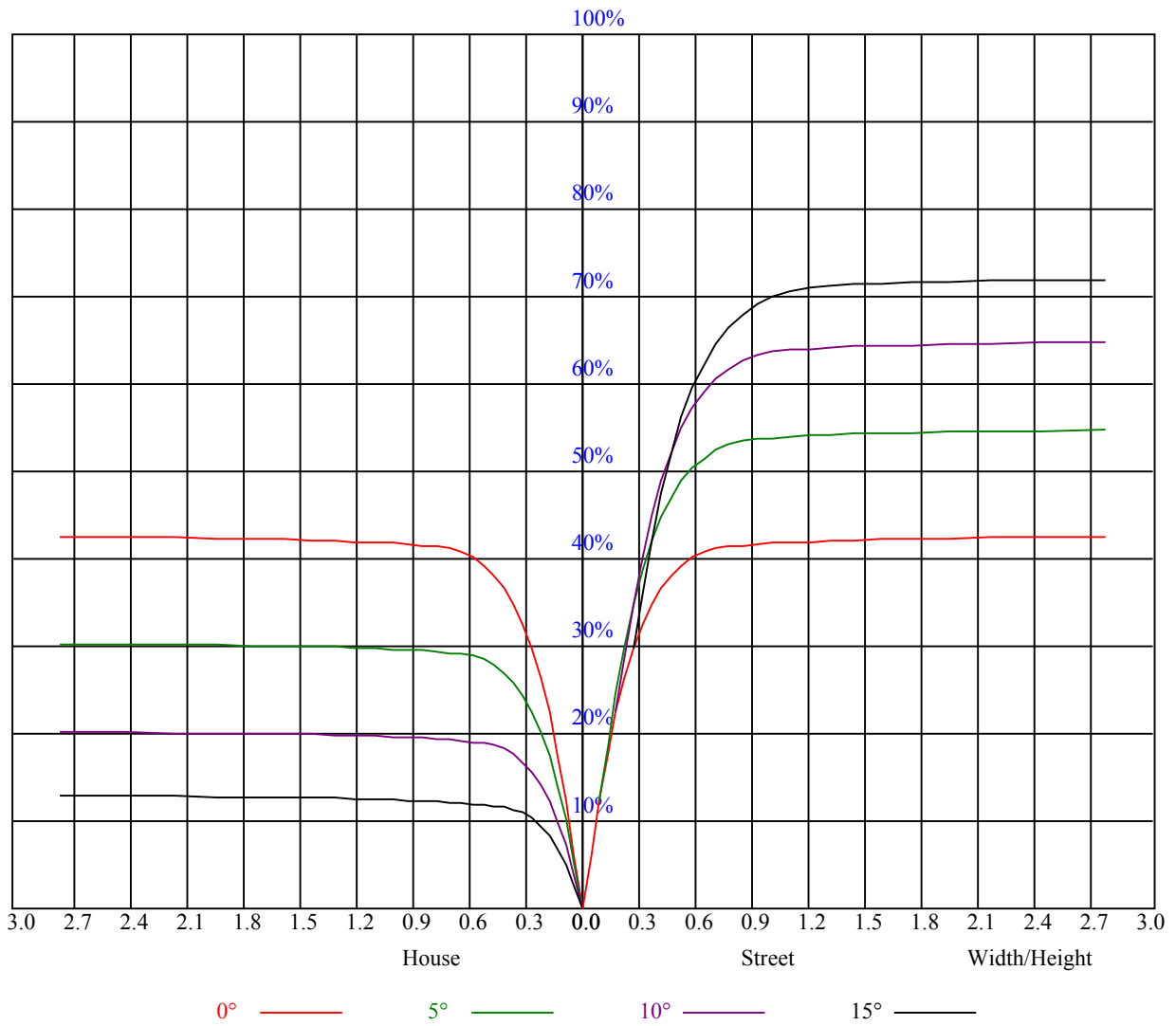


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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				

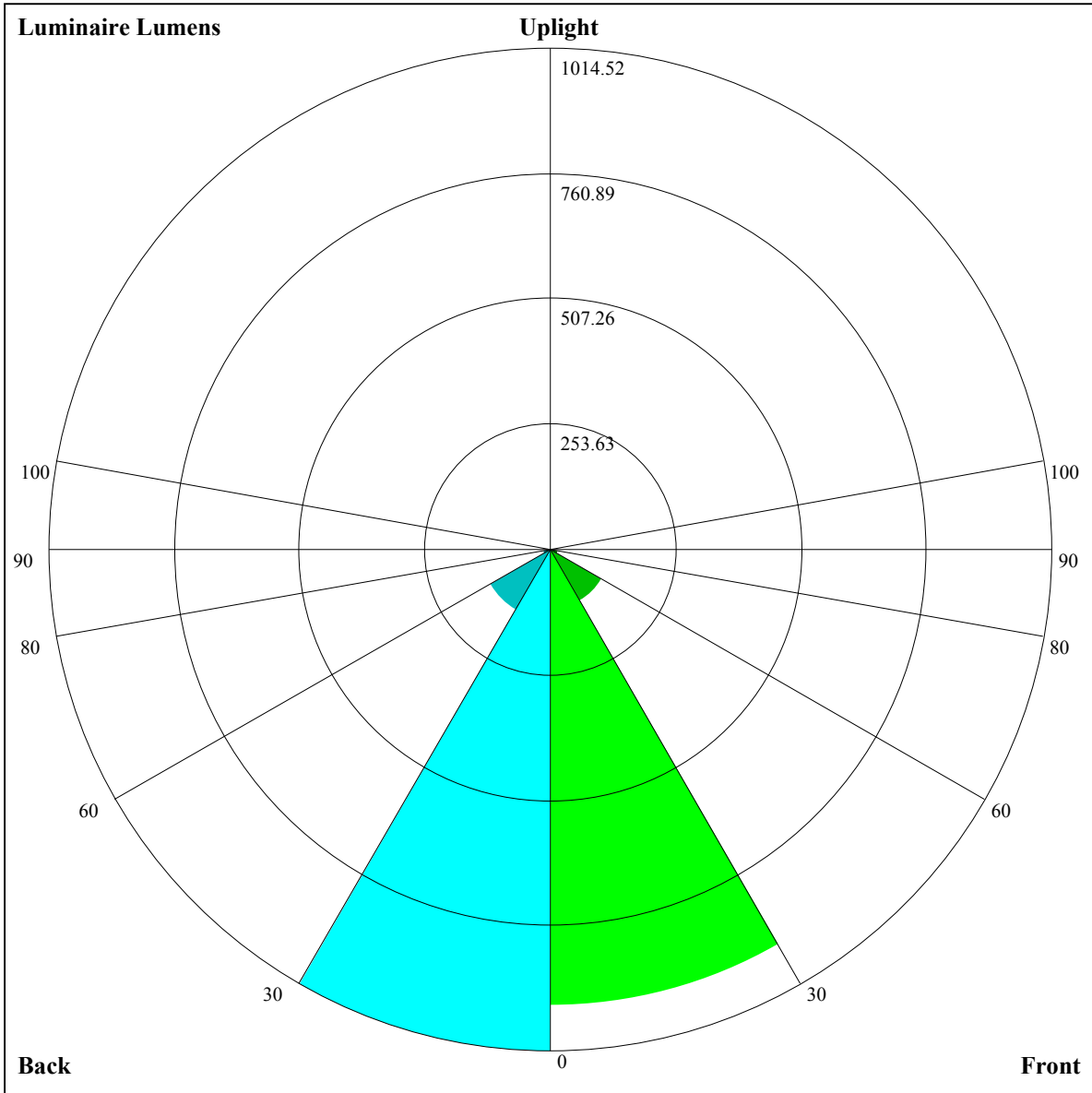
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.96	0.94	0.92	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.81	0.80	0.78	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	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
9	0.66	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55







Luminaire Lumens:

FL=923.07,FM=118.34,FH=16.56,FVH=5.73

BL=1014.52,BM=141.11,BH=17.24,BVH=5.83

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	7576.38	7434.76	7229.93	6881.72	6531.17	6149.02	5639.29	5219.68	4807.68
45.0	7693.43	7631.39	7520.78	7348.73	7015.74	6681.57	6203.44	5796.13	5382.37
90.0	7651.29	7550.63	7348.73	7093.57	6757.65	6383.11	5876.30	5457.87	5035.92
135.0	7705.13	7679.38	7606.23	7442.36	7230.51	6946.68	6599.06	6113.90	5700.15
180.0	7576.38	7681.14	7696.94	7662.41	7576.97	7402.57	7203.01	6939.07	6514.20
225.0	7693.43	7681.72	7619.69	7507.91	7348.14	7064.89	6764.09	6403.01	6000.96
270.0	7651.29	7701.62	7674.70	7603.89	7444.12	7252.75	6994.67	6572.72	6188.81
315.0	7705.13	7670.02	7557.65	7414.27	7145.66	6843.68	6496.06	6002.13	5585.45
360.0	7576.38	7434.76	7229.93	6881.72	6531.17	6149.02	5639.29	5219.68	4807.68
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4311.41	3929.26	3572.86	3241.62	2879.37	2631.82	2405.92	2198.16	1975.78
45.0	4864.45	4471.18	4087.27	3725.02	3313.60	3011.04	2739.50	2496.63	2230.94
90.0	4630.36	4240.60	3783.54	3441.18	3063.13	2795.68	2549.88	2278.34	2091.07
135.0	5287.57	4873.23	4378.13	4002.41	3562.32	3238.69	2949.59	2626.55	2401.24
180.0	6126.19	5719.46	5196.27	4775.49	4272.79	3891.80	3539.50	3216.46	2862.98
225.0	5470.74	5044.70	4534.38	4146.96	3782.95	3363.93	3063.13	2791.00	2544.62
270.0	5775.06	5368.33	4852.74	4459.47	4069.13	3705.12	3371.54	3001.09	2736.57
315.0	5162.91	4647.33	4252.89	3881.86	3535.40	3142.72	2863.56	2612.50	2387.78
360.0	4311.41	3929.26	3572.86	3241.62	2879.37	2631.82	2405.92	2198.16	1975.78
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1811.33	1662.10	1489.46	1160.97	1160.97	1107.25	1014.72	938.82	867.01
45.0	2047.18	1878.05	1696.04	1559.10	1432.69	1282.87	1171.68	1044.10	963.92
90.0	1921.35	1731.15	1593.04	1463.71	1142.36	1142.36	1091.74	1005.36	935.31
135.0	2201.67	2023.18	1821.86	1677.31	1546.22	1422.16	1270.00	1158.22	1054.05
180.0	2611.33	2386.61	2171.83	1952.95	1804.89	1660.34	1518.72	1375.92	1258.88
225.0	2269.56	2074.10	1903.21	1748.71	1576.07	1450.83	1165.53	1165.53	1090.45
270.0	2435.18	2222.16	2029.03	1823.62	1680.24	1549.73	1391.72	1272.92	1166.41
315.0	2137.30	1957.64	1797.28	1617.04	1487.12	1145.87	1145.87	1120.47	1028.77
360.0	1811.33	1662.10	1489.46	1160.97	1160.97	1107.25	1014.72	938.82	867.01
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	818.09	760.85	683.66	565.80	461.51	354.94	259.02	161.99	113.07
45.0	898.38	847.46	767.87	683.02	592.31	496.33	372.85	303.21	303.21
90.0	865.72	807.96	728.96	618.29	519.86	419.08	297.41	212.73	127.75
135.0	972.12	894.87	841.03	755.00	670.14	576.51	448.93	348.27	300.86
180.0	1123.11	1031.81	952.22	880.24	820.54	750.32	661.95	539.64	433.71
225.0	1004.48	923.08	871.75	798.54	715.96	622.85	523.66	421.01	299.69
270.0	1068.68	968.61	905.99	852.73	790.11	683.60	591.72	493.40	370.51
315.0	937.06	880.35	830.90	763.54	652.29	555.03	452.79	351.90	238.01
360.0	818.09	760.85	683.66	565.80	461.51	354.94	259.02	161.99	113.07
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	91.65	80.76	73.91	68.24	61.45	56.83	52.61	48.11	44.65
45.0	125.59	88.72	79.71	72.33	65.90	60.80	56.47	51.62	48.16
90.0	92.06	81.05	73.62	68.06	61.57	57.18	53.20	49.45	45.53
135.0	300.86	104.23	85.91	77.72	71.28	64.43	59.52	55.19	50.45
180.0	331.30	306.72	200.21	104.46	88.13	80.06	71.92	66.25	61.04
225.0	212.32	140.75	99.61	82.58	74.79	68.88	62.09	57.29	52.03
270.0	300.28	300.28	115.87	89.54	78.54	71.63	66.01	60.45	54.66
315.0	161.64	101.65	85.15	77.25	69.29	63.85	58.82	53.14	49.16
360.0	91.65	80.76	73.91	68.24	61.45	56.83	52.61	48.11	44.65

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	41.84	38.62	36.75	34.88	33.42	31.95	30.96	30.08	29.38
45.0	44.24	41.61	39.09	37.04	34.76	33.30	32.13	31.13	30.31
90.0	42.55	39.44	37.22	35.41	33.30	32.25	31.13	30.14	29.38
135.0	46.94	43.95	40.56	38.10	35.70	33.94	32.60	31.49	30.37
180.0	55.36	51.21	46.82	43.60	40.85	38.51	35.99	34.18	32.77
225.0	48.16	44.95	41.26	38.80	36.58	34.88	32.77	31.54	30.37
270.0	50.62	46.94	43.77	40.97	37.92	36.05	33.77	32.36	31.13
315.0	45.71	42.60	39.44	37.04	35.23	33.42	31.78	30.61	29.50
360.0	41.84	38.62	36.75	34.88	33.42	31.95	30.96	30.08	29.38
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.97	28.27	27.68	26.69	25.63	24.29	23.23	22.12	20.89
45.0	29.50	29.14	28.44	27.92	27.27	25.87	24.93	23.53	22.30
90.0	29.03	28.62	28.03	27.39	26.45	25.46	23.99	22.94	21.77
135.0	29.55	29.03	28.62	27.97	27.62	26.69	25.57	24.40	23.23
180.0	31.54	30.31	29.50	28.97	28.44	27.80	27.33	26.10	25.28
225.0	29.67	28.73	28.38	27.97	27.39	26.74	25.69	24.58	23.35
270.0	29.85	29.09	28.50	27.97	27.45	27.10	26.39	25.28	24.35
315.0	28.79	28.27	27.80	27.27	26.92	25.98	24.99	23.88	22.82
360.0	28.97	28.27	27.68	26.69	25.63	24.29	23.23	22.12	20.89
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.72	18.67	17.73	16.97	16.04	15.51	15.04	14.51	14.16
45.0	21.13	20.19	19.14	18.08	17.15	16.33	15.68	15.10	14.69
90.0	20.42	19.49	18.14	17.38	16.56	15.86	15.22	14.75	14.34
135.0	21.95	20.78	19.96	18.49	17.73	16.97	16.21	15.51	14.98
180.0	24.11	22.82	21.65	20.54	19.37	18.20	17.44	16.68	15.80
225.0	22.41	20.89	19.90	18.90	17.79	16.85	16.15	15.51	14.92
270.0	23.06	22.06	20.60	19.66	18.61	17.38	16.68	15.74	15.22
315.0	21.77	20.19	19.37	18.20	17.32	16.39	15.74	15.04	14.69
360.0	19.72	18.67	17.73	16.97	16.04	15.51	15.04	14.51	14.16
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.81	13.40	13.11	12.82	12.52	12.23	11.94	11.70	11.35
45.0	14.16	13.87	13.52	13.11	12.82	12.52	12.29	12.00	11.65
90.0	13.99	13.58	13.28	12.99	12.70	12.35	12.11	11.70	11.47
135.0	14.57	14.16	13.75	13.40	13.11	12.76	12.47	12.11	11.82
180.0	15.33	14.86	14.46	14.05	13.69	13.28	13.05	12.70	12.35
225.0	14.51	14.16	13.81	13.40	13.11	12.82	12.47	12.23	11.88
270.0	14.81	14.34	13.93	13.64	13.28	12.99	12.64	12.35	12.11
315.0	14.28	13.87	13.52	13.23	12.93	12.58	12.29	12.06	11.76
360.0	13.81	13.40	13.11	12.82	12.52	12.23	11.94	11.70	11.35
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.06	10.83	10.59	10.48	10.24	10.01	9.89	9.71	9.77
45.0	11.41	11.06	10.83	10.59	10.42	10.18	9.95	9.77	9.66
90.0	11.18	10.89	10.65	10.48	10.24	10.07	9.83	9.66	9.71
135.0	11.59	11.24	10.94	10.77	10.48	10.30	10.07	9.95	9.71
180.0	12.06	11.76	11.47	11.18	10.89	10.65	10.48	10.24	10.07
225.0	11.65	11.41	11.12	10.83	10.65	10.36	10.18	10.07	9.89
270.0	11.88	11.59	11.24	10.94	10.71	10.53	10.30	10.07	9.89
315.0	11.47	11.24	10.94	10.65	10.53	10.30	10.07	9.83	9.66
360.0	11.06	10.83	10.59	10.48	10.24	10.01	9.89	9.71	9.77

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.71
90.0	9.71
135.0	9.66
180.0	10.01
225.0	9.66
270.0	9.66
315.0	9.66
360.0	9.83