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Nata

Client: NT

LumCAT: 62-0096

Luminaire: 92.70.412.00

Report No: 20261006-B011

Ballast type: DC

Test No: 20261006-C011

LampCAT: CITIZEN CLU038

Lamp flux(lm): 2335.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.710

Current(A): 0.525

Power (W): 18.220

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 2248.95, Efficiency(%): 96.31% , Luminous Efficacy(lm/W): 123.43

Central intensity(cd): 11714.260, Maximum intensity(cd): 11749.810

Angle of maximum intensity: C=135.0 γ =2.0

Beam Angle(50%Imax): [C0/180]Total=23.1

[C90/270]Total=22.9

Field angle(10%Imax): [C0/180]Total=40.8

[C90/270]Total=40.3

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

Maximum s/h(1/4): C0_180=0.40 C90_270=0.40

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.31%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.114%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11594.918	0.000	0	0.00%	0.00%
1.0	11542.547	11.071	11.071	0.47%	0.49%
2.0	11364.380	32.878	43.949	1.41%	1.95%
3.0	11073.959	53.665	97.614	2.30%	4.34%
4.0	10703.342	72.896	170.51	3.12%	7.58%
5.0	10224.808	90.032	260.542	3.86%	11.59%
6.0	9667.031	104.537	365.078	4.48%	16.23%
7.0	9006.733	115.908	480.986	4.96%	21.39%
8.0	8337.548	124.130	605.116	5.32%	26.91%
9.0	7678.625	129.802	734.918	5.56%	32.68%
10.0	6918.347	132.097	867.016	5.66%	38.55%
11.0	6179.651	130.876	997.891	5.60%	44.37%
12.0	5470.791	127.356	1125.247	5.45%	50.03%
13.0	4803.405	121.929	1247.176	5.22%	55.46%
14.0	4093.910	113.885	1361.061	4.88%	60.52%
15.0	3417.181	103.116	1464.177	4.42%	65.10%
16.0	2811.487	91.267	1555.444	3.91%	69.16%
17.0	2328.118	80.037	1635.482	3.43%	72.72%
18.0	1903.141	69.764	1705.246	2.99%	75.82%
19.0	1591.158	60.794	1766.04	2.60%	78.53%
20.0	1289.205	52.719	1818.758	2.26%	80.87%
21.0	1034.830	44.626	1863.384	1.91%	82.86%
22.0	836.709	37.609	1900.994	1.61%	84.53%
23.0	672.782	31.673	1932.667	1.36%	85.94%
24.0	542.331	26.567	1959.234	1.14%	87.12%
25.0	449.851	22.560	1981.794	0.97%	88.12%
26.0	359.572	19.107	2000.9	0.82%	88.97%
27.0	313.612	16.470	2017.37	0.71%	89.70%
28.0	247.106	14.196	2031.566	0.61%	90.33%
29.0	189.043	11.411	2042.977	0.49%	90.84%
30.0	157.229	9.349	2052.326	0.40%	91.26%
31.0	132.430	8.061	2060.387	0.35%	91.62%
32.0	114.645	7.078	2067.465	0.30%	91.93%
33.0	100.859	6.349	2073.814	0.27%	92.21%
34.0	90.575	5.793	2079.608	0.25%	92.47%
35.0	82.915	5.388	2084.996	0.23%	92.71%
36.0	77.001	5.092	2090.087	0.22%	92.94%
37.0	72.050	4.861	2094.949	0.21%	93.15%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	67.828	4.669	2099.617	0.20%	93.36%
39.0	64.083	4.503	2104.12	0.19%	93.56%
40.0	61.110	4.366	2108.486	0.19%	93.75%
41.0	58.052	4.243	2112.73	0.18%	93.94%
42.0	55.619	4.130	2116.859	0.18%	94.13%
43.0	53.270	4.034	2120.893	0.17%	94.31%
44.0	51.345	3.948	2124.842	0.17%	94.48%
45.0	49.525	3.877	2128.718	0.17%	94.65%
46.0	48.023	3.815	2132.533	0.16%	94.82%
47.0	46.700	3.767	2136.3	0.16%	94.99%
48.0	45.441	3.725	2140.025	0.16%	95.16%
49.0	44.468	3.692	2143.717	0.16%	95.32%
50.0	43.664	3.674	2147.392	0.16%	95.48%
51.0	42.976	3.666	2151.057	0.16%	95.65%
52.0	42.426	3.665	2154.722	0.16%	95.81%
53.0	41.950	3.670	2158.392	0.16%	95.97%
54.0	41.431	3.675	2162.067	0.16%	96.14%
55.0	40.881	3.674	2165.742	0.16%	96.30%
56.0	40.299	3.668	2169.41	0.16%	96.46%
57.0	39.601	3.653	2173.063	0.16%	96.63%
58.0	38.850	3.628	2176.691	0.16%	96.79%
59.0	38.014	3.593	2180.285	0.15%	96.95%
60.0	37.062	3.547	2183.831	0.15%	97.10%
61.0	36.014	3.487	2187.319	0.15%	97.26%
62.0	34.956	3.420	2190.738	0.15%	97.41%
63.0	33.898	3.349	2194.087	0.14%	97.56%
64.0	32.608	3.263	2197.351	0.14%	97.71%
65.0	31.327	3.164	2200.515	0.14%	97.85%
66.0	29.941	3.057	2203.572	0.13%	97.98%
67.0	28.566	2.942	2206.514	0.13%	98.11%
68.0	27.106	2.820	2209.334	0.12%	98.24%
69.0	25.466	2.682	2212.016	0.11%	98.36%
70.0	24.038	2.542	2214.558	0.11%	98.47%
71.0	22.535	2.407	2216.965	0.10%	98.58%
72.0	21.171	2.273	2219.238	0.10%	98.68%
73.0	20.504	2.179	2221.417	0.09%	98.78%
74.0	20.102	2.135	2223.552	0.09%	98.87%
75.0	19.880	2.112	2225.664	0.09%	98.96%

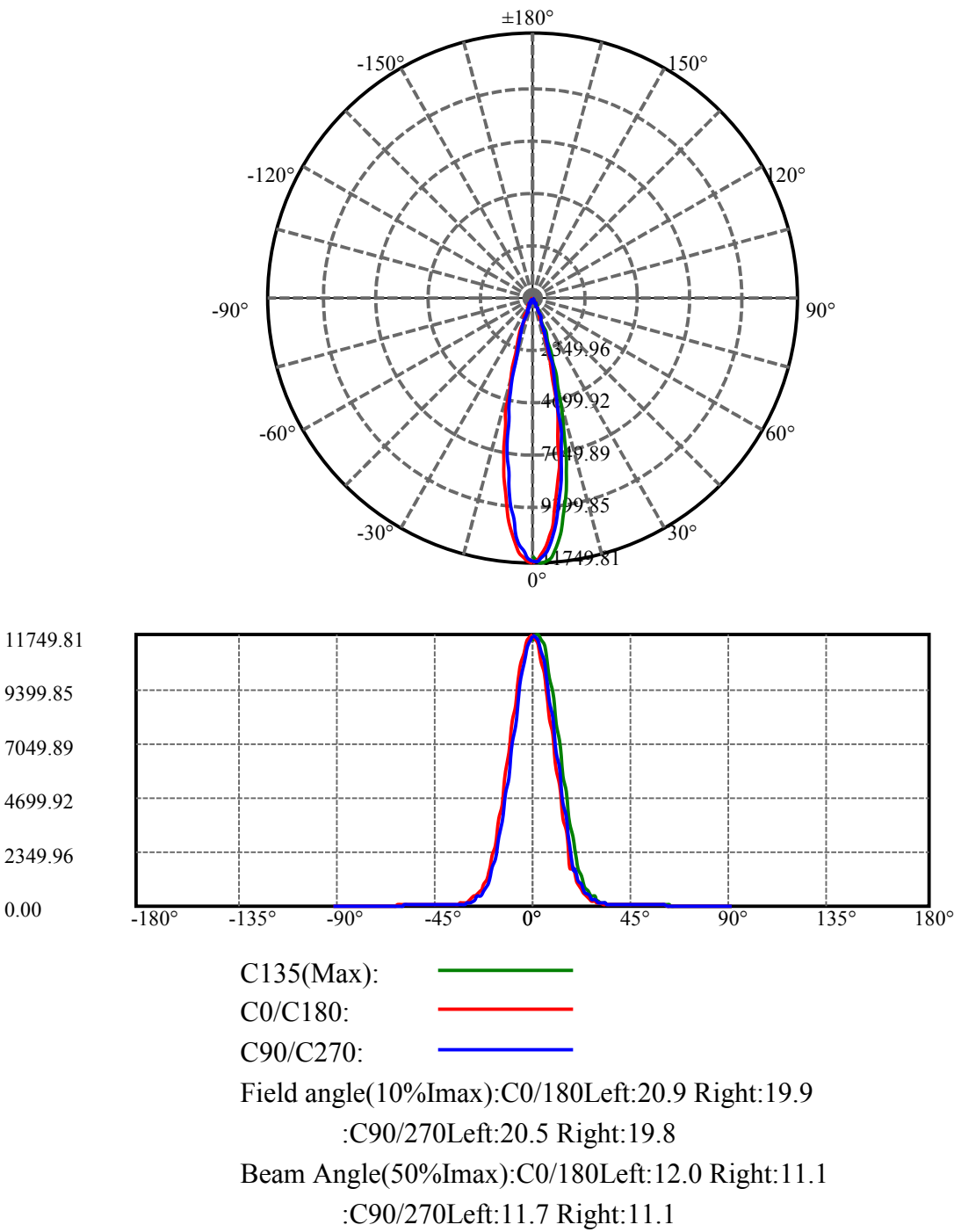
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	20.303	2.133	2227.797	0.09%	99.06%
77.0	20.642	2.183	2229.98	0.09%	99.16%
78.0	19.954	2.173	2232.154	0.09%	99.25%
79.0	18.790	2.082	2234.235	0.09%	99.35%
80.0	17.076	1.934	2236.169	0.08%	99.43%
81.0	15.404	1.757	2237.925	0.08%	99.51%
82.0	14.262	1.609	2239.534	0.07%	99.58%
83.0	13.024	1.483	2241.017	0.06%	99.65%
84.0	12.114	1.369	2242.387	0.06%	99.71%
85.0	11.215	1.273	2243.66	0.05%	99.76%
86.0	10.347	1.179	2244.839	0.05%	99.82%
87.0	9.755	1.100	2245.939	0.05%	99.87%
88.0	9.236	1.040	2246.979	0.04%	99.91%
89.0	8.961	0.997	2247.977	0.04%	99.96%
90.0	8.781	0.973	2248.949	0.04%	100.00%

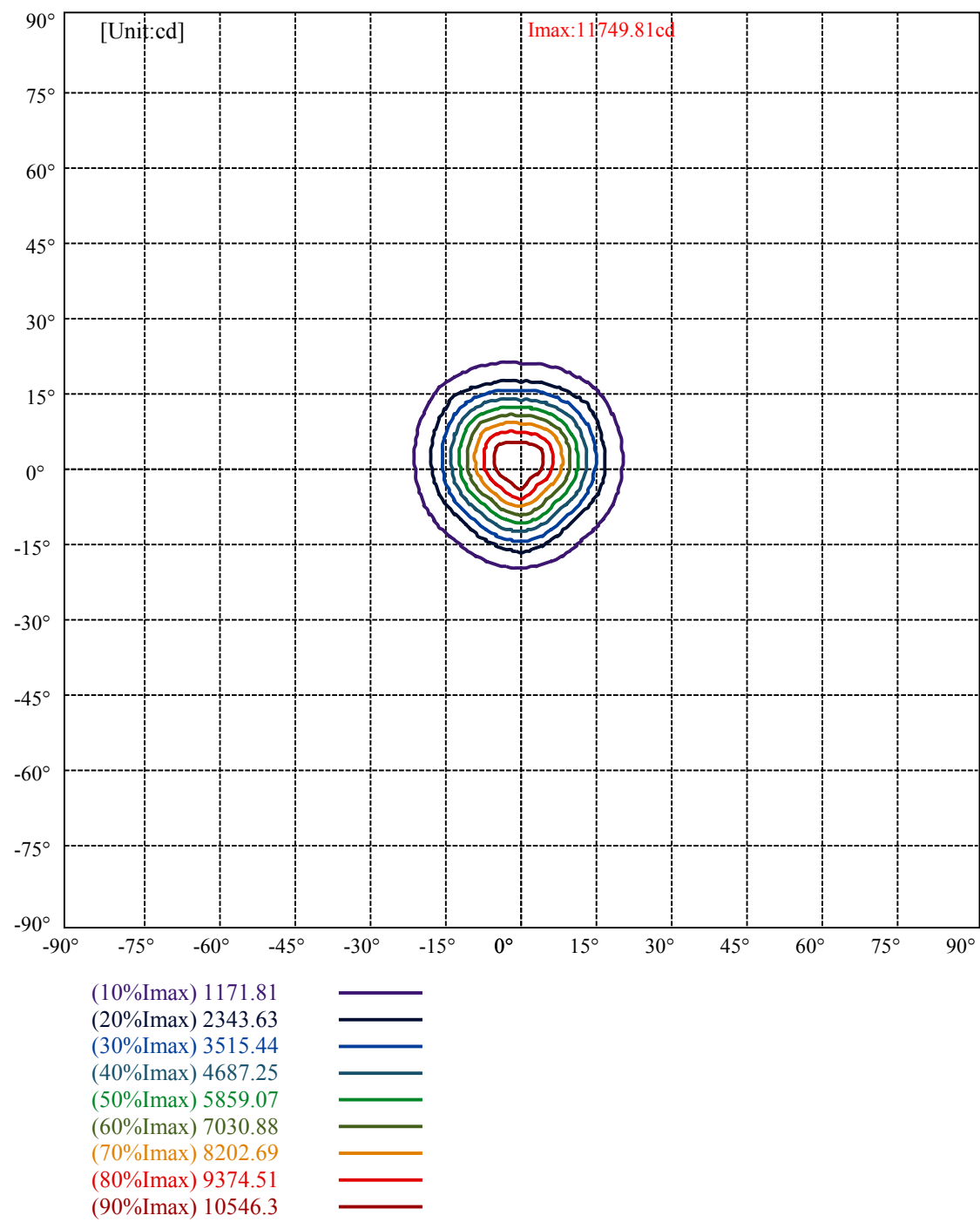
ZONAL LUMEN SUMMARY

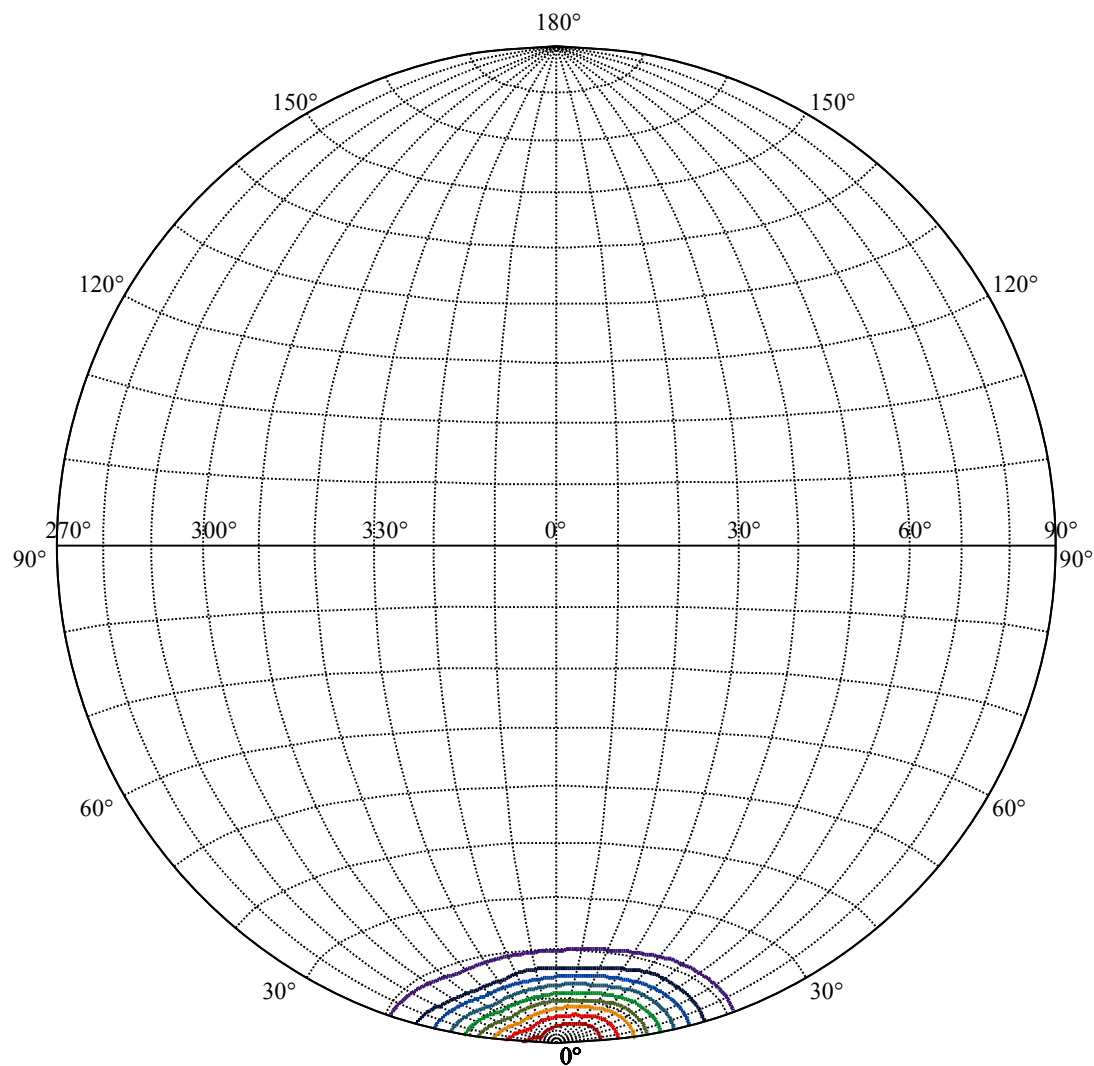
Zone	Lumens	%Lamp	%Fixt
0-30	2052.33	87.89%	91.26%
0-40	2108.49	90.30%	93.75%
0-60	2183.83	93.53%	97.10%
0-90	2247.98	96.27%	99.96%
0-120	2247.98	96.27%	99.96%
0-180	2248.95	96.31%	100.00%
60-90	64.15	2.75%	2.85%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.63	1799.16	77.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	867.02
10-20	951.74
20-30	233.57
30-40	56.16
40-50	38.91
50-60	36.44
60-70	30.73
70-80	21.61
80-90	11.81
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





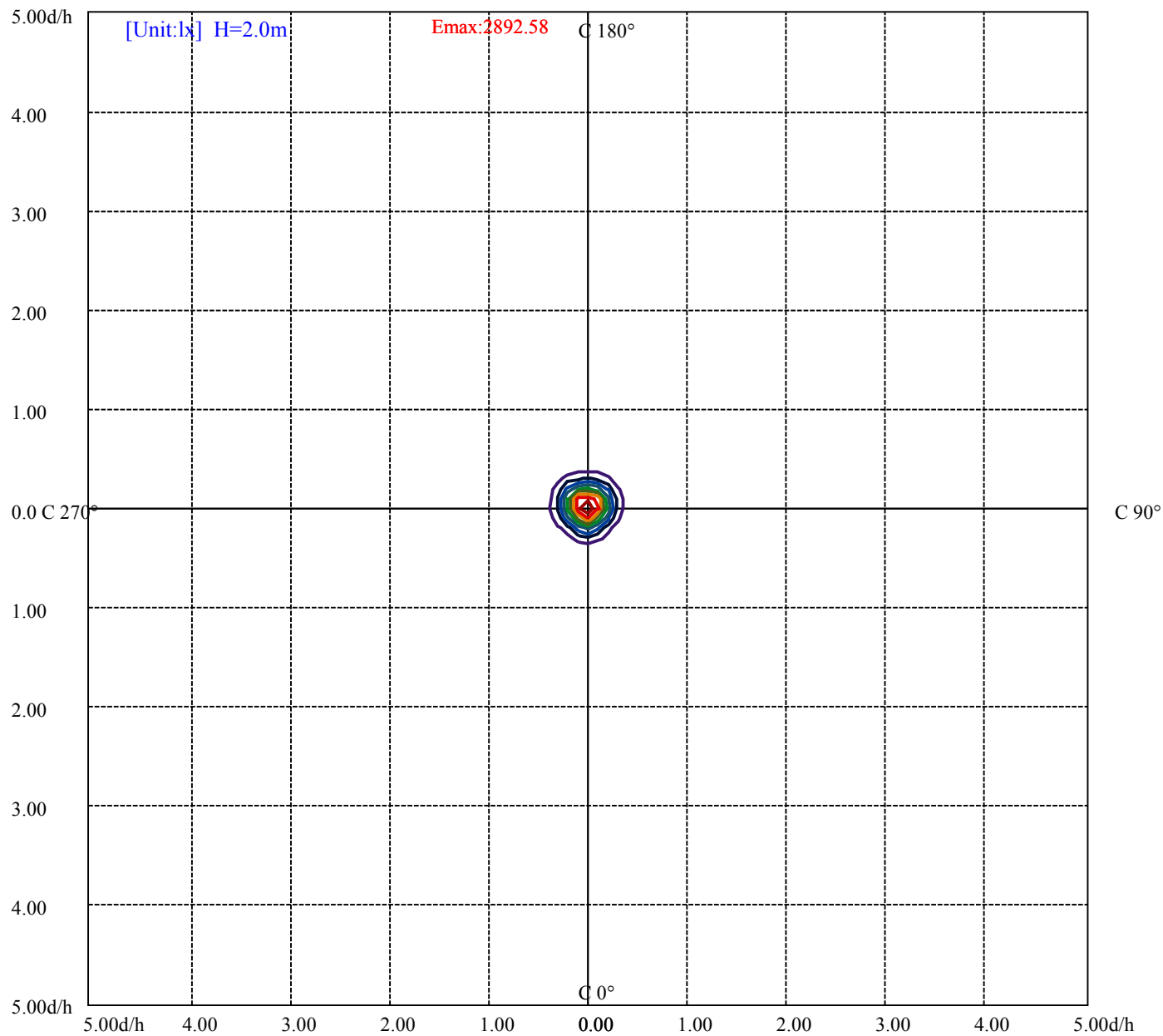


House

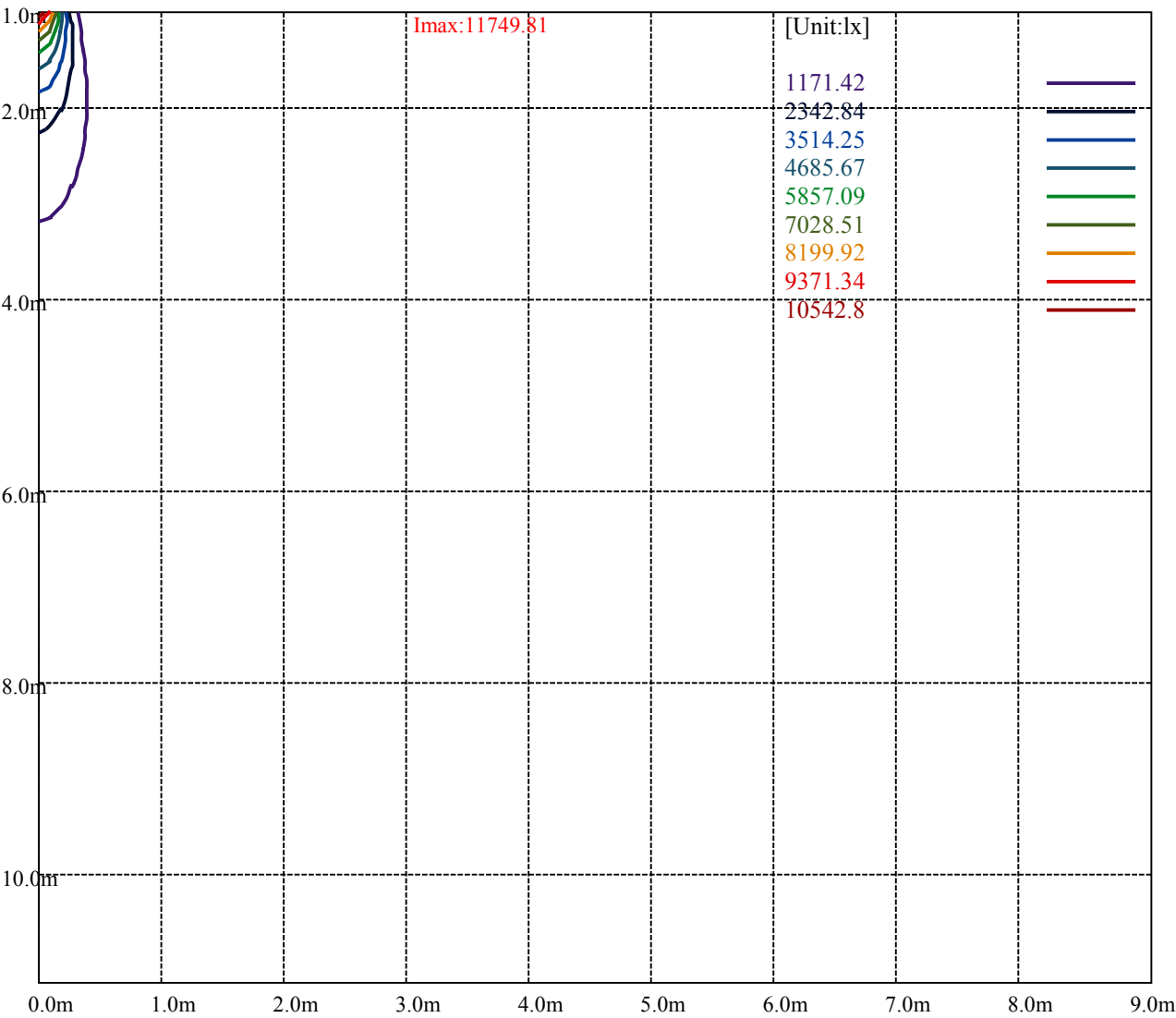
[Unit:cd]

Road

Imax:11749.81	
(10%Imax)	1174.8
(20%Imax)	2349.61
(30%Imax)	3524.41
(40%Imax)	4699.21
(50%Imax)	5874.02
(60%Imax)	7048.82
(70%Imax)	8223.62
(80%Imax)	9398.43
(90%Imax)	10573.2



(10%Emax)	289.2575	—
(20%Emax)	578.515	—
(30%Emax)	867.7725	—
(40%Emax)	1157.03	—
(50%Emax)	1446.287	—
(60%Emax)	1735.545	—
(70%Emax)	2024.805	—
(80%Emax)	2314.063	—
(90%Emax)	2603.325	—



Luminance Limiting Curve(no luminous side)

Luminance Table

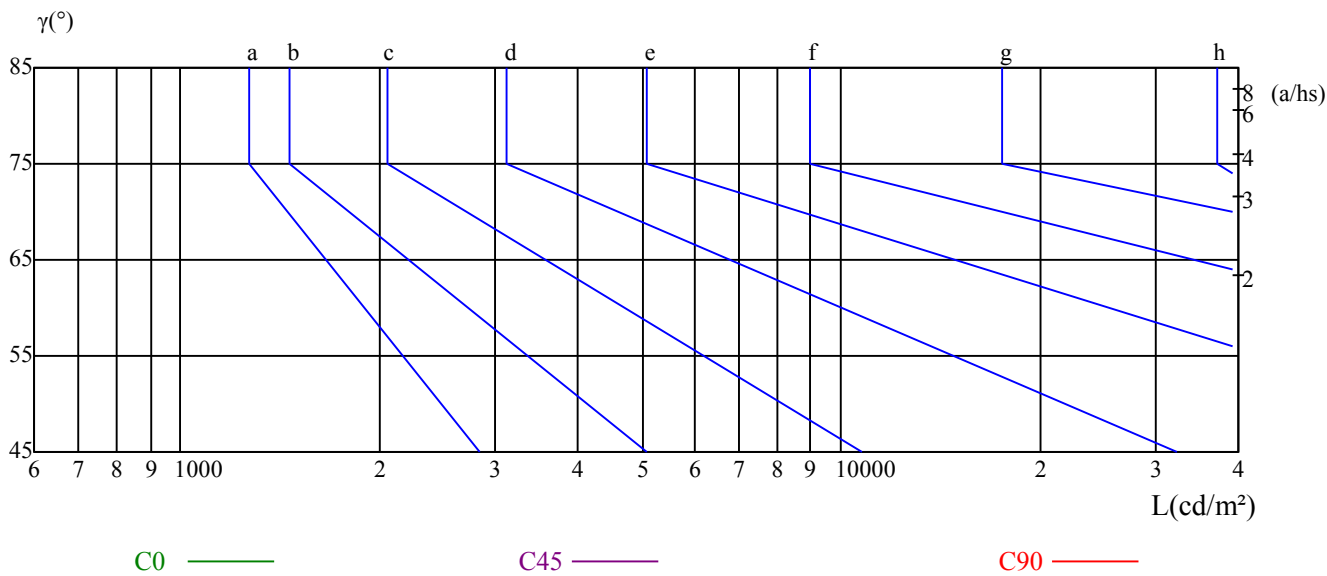
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

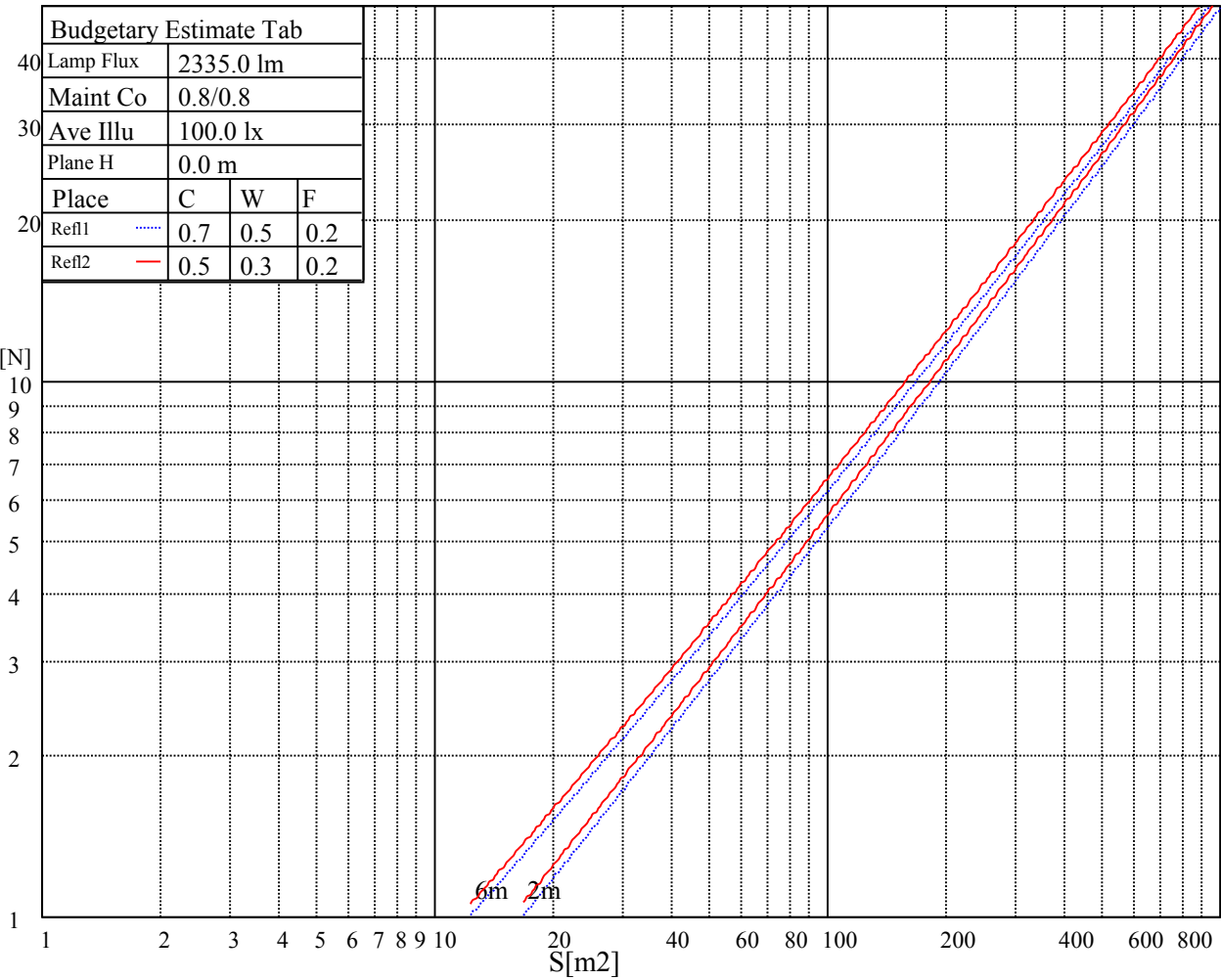
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

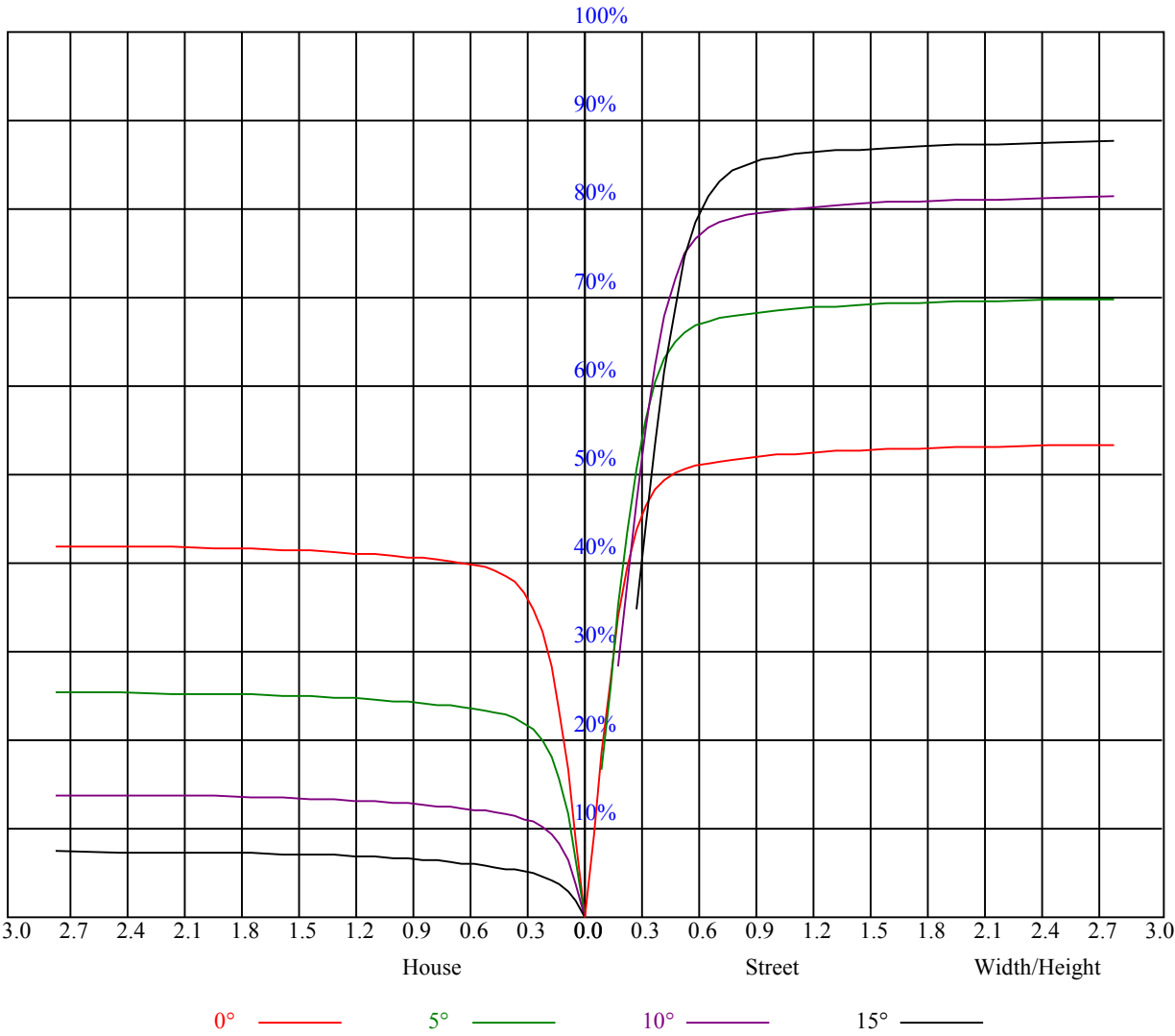


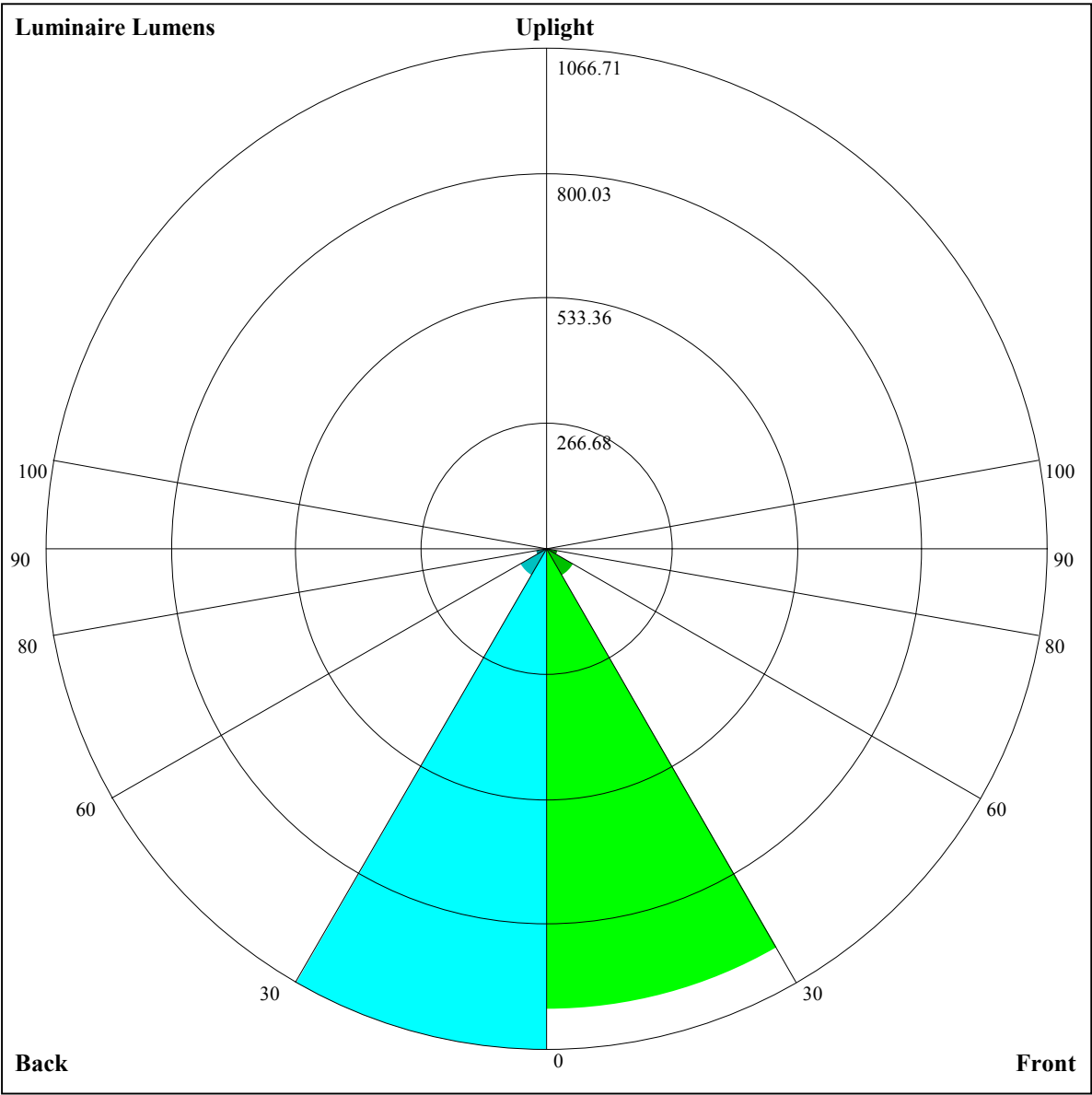
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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	
	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	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	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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.03	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.94	0.92
2	1.03	0.99	0.97	1.01	0.98	0.96	0.98	0.96	0.94	0.95	0.93	0.92	0.93	0.91	0.90	0.88
3	0.98	0.94	0.91	0.97	0.93	0.91	0.94	0.91	0.89	0.92	0.90	0.88	0.90	0.88	0.87	0.85
4	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.87	0.85	0.88	0.85	0.84	0.82
5	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.85	0.82	0.87	0.84	0.82	0.85	0.83	0.81	0.80
6	0.88	0.83	0.80	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.83	0.81	0.79	0.78
7	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.79	0.77	0.76
8	0.82	0.78	0.76	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.77	0.75	0.74
9	0.80	0.76	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.78	0.75	0.73	0.72
10	0.78	0.74	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.70





Luminaire Lumens:

FL=981.81,FM=65.07,FH=26.36,FVH=6.47

BL=1066.71,BM=66.98,BH=25.76,BVH=6.5

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

Appendix Page: 18 Total:20

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	11714.26	11594.92	11389.24	11001.59	10597.86	10106.95	9407.82	8794.18	8134.84
45.0	11570.37	11657.55	11626.24	11443.41	11191.19	10835.70	10391.34	9741.30	9163.21
90.0	11666.86	11661.78	11544.98	11336.77	11011.75	10611.40	10011.30	9456.07	8859.35
135.0	11428.18	11657.55	11749.81	11711.72	11539.06	11284.29	10932.19	10376.95	9860.64
180.0	11714.26	11685.48	11552.60	11335.92	10944.04	10536.07	10042.62	9479.76	8709.54
225.0	11570.37	11400.25	11049.84	10666.42	10207.67	9532.24	8911.83	8246.56	7384.08
270.0	11666.86	11530.59	11247.89	10908.49	10492.91	9868.26	9272.40	8463.24	7784.43
315.0	11428.18	11152.25	10754.44	10187.36	9642.27	9023.56	8366.75	7495.80	6804.29
360.0	11714.26	11594.92	11389.24	11001.59	10597.86	10106.95	9407.82	8794.18	8134.84
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7455.18	6585.08	5896.95	5224.91	4575.72	3812.27	3253.65	2733.96	1687.81
45.0	8533.49	7704.86	7015.89	6156.80	5479.68	4820.33	4183.84	3442.39	2894.77
90.0	8210.16	7349.38	6662.10	5962.13	5106.42	4455.53	3841.89	3133.46	2612.92
135.0	9290.17	8669.76	7851.29	7169.94	6480.97	5613.41	4934.60	4149.14	3543.12
180.0	8055.27	7370.54	6677.33	5823.32	5160.59	4370.05	3776.72	3226.56	2601.07
225.0	6691.72	5837.71	5177.51	4541.02	3935.84	3231.64	2719.57	1667.58	1667.58
270.0	7095.46	6395.48	5532.16	4873.66	4247.32	3656.53	2977.72	2489.35	2052.60
315.0	6097.55	5433.97	4623.97	4014.56	3440.70	2791.51	1649.46	1649.46	1565.08
360.0	7455.18	6585.08	5896.95	5224.91	4575.72	3812.27	3253.65	2733.96	1687.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1687.81	1451.66	1126.39	918.77	753.38	588.08	481.60	393.41	304.70
45.0	2401.32	1975.58	1537.15	1251.06	1016.61	829.56	646.73	530.78	434.29
90.0	1612.56	1612.56	1382.76	1125.37	918.26	716.73	589.69	488.37	405.85
135.0	2985.34	2496.96	2062.76	1601.47	1298.46	1040.31	799.09	644.20	521.47
180.0	2157.56	1774.14	1457.59	1132.57	926.05	760.15	628.11	496.08	430.06
225.0	1501.01	1155.17	941.96	773.02	608.05	503.44	416.60	328.15	270.93
270.0	1670.88	1279.84	1038.62	843.95	652.66	534.16	439.37	439.37	277.53
315.0	1208.66	983.35	766.42	632.43	520.20	409.83	337.46	278.47	231.74
360.0	1687.81	1451.66	1126.39	918.77	753.38	588.08	481.60	393.41	304.70
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	247.49	201.36	166.57	133.90	115.20	100.98	90.48	80.92	75.16
45.0	434.29	269.16	209.65	174.10	147.19	126.11	106.48	95.05	86.67
90.0	321.63	266.45	222.26	179.78	154.81	129.84	114.43	102.75	91.83
135.0	444.44	444.44	253.84	204.74	160.65	134.32	109.61	95.39	84.98
180.0	430.06	273.47	215.49	180.79	148.80	129.84	114.77	100.98	92.85
225.0	215.15	180.62	153.71	132.72	112.91	101.48	92.68	85.82	78.80
270.0	228.27	179.86	149.90	126.62	109.35	93.10	84.30	77.19	71.69
315.0	187.56	161.49	140.93	125.18	110.54	101.48	94.12	86.50	81.34
360.0	247.49	201.36	166.57	133.90	115.20	100.98	90.48	80.92	75.16
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	69.32	65.43	62.13	58.49	56.20	54.00	52.14	50.02	48.58
45.0	80.07	73.64	69.40	65.68	62.63	59.16	56.62	53.92	52.05
90.0	85.40	80.58	76.18	71.01	67.37	64.16	61.19	57.98	55.52
135.0	77.53	70.42	66.02	62.21	58.99	55.78	53.58	51.63	49.94
180.0	86.33	81.17	75.50	71.61	68.22	64.24	61.19	58.57	56.20
225.0	74.23	70.34	65.93	62.80	60.09	56.88	54.51	52.56	50.28
270.0	66.27	62.97	59.33	56.96	54.68	52.22	50.36	48.75	47.31
315.0	76.85	71.86	68.14	63.90	60.69	57.98	55.35	52.73	50.87
360.0	69.32	65.43	62.13	58.49	56.20	54.00	52.14	50.02	48.58

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	47.40	46.30	45.11	44.44	43.76	43.25	42.91	42.57	42.24
45.0	49.94	48.50	47.14	46.04	44.86	44.10	43.42	43.00	42.57
90.0	53.32	51.04	49.43	47.57	46.30	45.28	44.44	43.42	42.83
135.0	48.16	46.89	45.62	44.61	43.84	43.00	42.40	41.98	41.81
180.0	53.58	51.72	50.11	48.16	46.98	45.62	44.77	44.01	43.42
225.0	48.84	47.48	46.30	44.86	43.93	43.17	42.40	41.81	41.39
270.0	45.96	44.86	44.01	43.17	42.32	41.81	41.30	40.88	40.37
315.0	49.01	47.40	45.87	44.69	43.76	43.08	42.15	41.73	40.97
360.0	47.40	46.30	45.11	44.44	43.76	43.25	42.91	42.57	42.24
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	41.81	41.22	40.63	39.95	39.19	38.09	37.16	36.23	35.13
45.0	42.07	41.64	41.22	40.54	39.87	38.85	38.00	36.99	35.80
90.0	42.24	41.64	40.80	40.12	39.36	38.60	37.41	36.40	35.21
135.0	41.39	41.22	40.97	40.54	39.95	39.44	38.77	37.66	36.82
180.0	42.74	42.15	41.56	40.88	39.95	39.10	38.26	36.99	35.97
225.0	40.80	40.03	39.44	38.43	37.66	36.65	35.46	34.45	33.35
270.0	40.03	39.36	38.77	38.00	37.24	36.48	35.63	34.53	33.43
315.0	40.37	39.78	39.02	38.34	37.58	36.90	35.80	34.87	33.94
360.0	41.81	41.22	40.63	39.95	39.19	38.09	37.16	36.23	35.13
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	34.11	32.67	31.49	29.88	28.86	27.08	25.22	23.78	22.26
45.0	34.62	33.52	32.33	30.89	29.62	28.27	26.49	25.14	23.78
90.0	34.19	33.09	31.66	30.47	29.20	27.76	26.07	24.71	23.45
135.0	35.97	34.70	33.60	32.08	30.98	29.71	28.27	26.49	25.05
180.0	34.96	33.52	32.33	31.15	29.45	28.10	26.66	25.31	23.61
225.0	32.08	30.64	29.45	28.10	26.75	25.14	23.70	22.34	20.74
270.0	32.42	31.40	29.88	28.61	27.17	25.82	24.12	22.77	20.99
315.0	32.84	31.32	29.88	28.35	26.49	24.97	23.19	21.75	20.40
360.0	34.11	32.67	31.49	29.88	28.86	27.08	25.22	23.78	22.26
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.40	18.96	18.03	17.35	16.50	15.91	15.32	14.73	14.22
45.0	22.43	20.74	19.38	17.94	17.44	16.76	16.17	15.57	15.07
90.0	22.09	20.48	19.13	18.54	21.84	25.82	29.45	30.13	26.41
135.0	23.70	22.26	20.48	19.04	17.69	16.84	16.08	15.49	14.73
180.0	22.26	20.91	19.47	18.37	18.79	20.40	21.50	20.74	18.79
225.0	19.30	18.03	17.18	16.50	15.91	15.32	14.98	14.64	14.30
270.0	19.64	18.11	17.10	16.42	15.74	15.15	14.39	13.97	13.71
315.0	19.55	24.55	30.05	34.87	38.51	38.93	31.74	25.05	19.38
360.0	20.40	18.96	18.03	17.35	16.50	15.91	15.32	14.73	14.22
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.88	12.95	12.10	11.51	10.83	10.07	9.40	8.89	8.72
45.0	14.90	14.30	13.46	12.70	11.93	11.17	10.33	9.73	9.14
90.0	21.58	18.28	14.90	13.80	12.70	10.92	10.16	9.56	9.14
135.0	14.13	13.71	13.12	12.27	11.51	10.83	10.24	9.31	8.80
180.0	17.86	16.25	14.39	13.80	12.27	11.09	10.50	9.90	9.65
225.0	13.20	12.44	11.85	11.00	10.07	9.48	9.06	8.72	8.63
270.0	12.95	12.19	11.43	10.66	9.90	9.23	8.72	8.21	8.13
315.0	14.73	13.97	12.95	11.17	10.50	9.99	9.65	9.56	9.48
360.0	13.88	12.95	12.10	11.51	10.83	10.07	9.40	8.89	8.72

Intensity data(cd)

C/ γ (°)	90.0
0.0	8.63
45.0	8.89
90.0	8.97
135.0	8.21
180.0	9.48
225.0	8.63
270.0	8.04
315.0	9.40
360.0	8.63