



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT

LumCAT: 3-2915-L

Luminaire: 92.70.412.00

Report No: 20250118-B003

Ballast type: AC

Test No: 20250118-C003

LampCAT: CITIZEN CLU038

Lamp flux(lm): 3863.6

Number of Lamps: 1

Length(mm): 85

Phm Type: C

Voltage(V): 35.830

Current(A): 0.701

Power (W): 25.116

PF: 0.000

Width(mm): 85

Height(mm): 50

Photometric Results

Lumens(lm): 3758.23, Efficiency(%): 97.27% , Luminous Efficacy(lm/W): 149.63

Central intensity(cd): 9512.599, Maximum intensity(cd): 9512.599

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=33.4

[C90/270]Total=33.4

Field angle(10%Imax): [C0/180]Total=66.0

[C90/270]Total=66.0

Maximum s/h(1/2): C0_180=0.55 C90_270=0.55

Maximum s/h(1/4): C0_180=0.55 C90_270=0.55

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.27%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.491%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9512.598	0.000	0	0.00%	0.00%
1.0	9494.895	9.095	9.095	0.24%	0.24%
2.0	9441.274	27.179	36.274	0.70%	0.97%
3.0	9344.419	44.929	81.203	1.16%	2.16%
4.0	9209.159	62.105	143.308	1.61%	3.81%
5.0	9036.225	78.491	221.798	2.03%	5.90%
6.0	8812.084	93.798	315.596	2.43%	8.40%
7.0	8574.117	107.916	423.512	2.79%	11.27%
8.0	8281.651	120.634	544.145	3.12%	14.48%
9.0	7953.559	131.578	675.723	3.41%	17.98%
10.0	7590.134	140.665	816.388	3.64%	21.72%
11.0	7209.518	147.879	964.267	3.83%	25.66%
12.0	6804.323	153.191	1117.458	3.96%	29.73%
13.0	6375.573	156.412	1273.87	4.05%	33.90%
14.0	5954.284	157.821	1431.691	4.08%	38.09%
15.0	5515.877	157.467	1589.159	4.08%	42.28%
16.0	5099.124	155.539	1744.698	4.03%	46.42%
17.0	4627.213	151.465	1896.163	3.92%	50.45%
18.0	4223.993	145.937	2042.101	3.78%	54.34%
19.0	3801.753	139.632	2181.732	3.61%	58.05%
20.0	3376.880	131.389	2313.121	3.40%	61.55%
21.0	2986.389	122.188	2435.309	3.16%	64.80%
22.0	2641.325	113.091	2548.4	2.93%	67.81%
23.0	2345.494	104.637	2653.037	2.71%	70.59%
24.0	2104.601	97.295	2750.332	2.52%	73.18%
25.0	1925.815	91.643	2841.975	2.37%	75.62%
26.0	1781.118	87.503	2929.477	2.26%	77.95%
27.0	1666.414	84.345	3013.822	2.18%	80.19%
28.0	1568.315	81.896	3095.718	2.12%	82.37%
29.0	1439.354	78.689	3174.408	2.04%	84.47%
30.0	1348.388	75.268	3249.676	1.95%	86.47%
31.0	1222.806	71.553	3321.229	1.85%	88.37%
32.0	1103.632	66.650	3387.878	1.73%	90.15%
33.0	956.126	60.681	3448.56	1.57%	91.76%
34.0	782.109	52.604	3501.164	1.36%	93.16%
35.0	620.536	43.561	3544.725	1.13%	94.32%
36.0	463.403	34.513	3579.238	0.89%	95.24%
37.0	318.084	25.488	3604.725	0.66%	95.92%

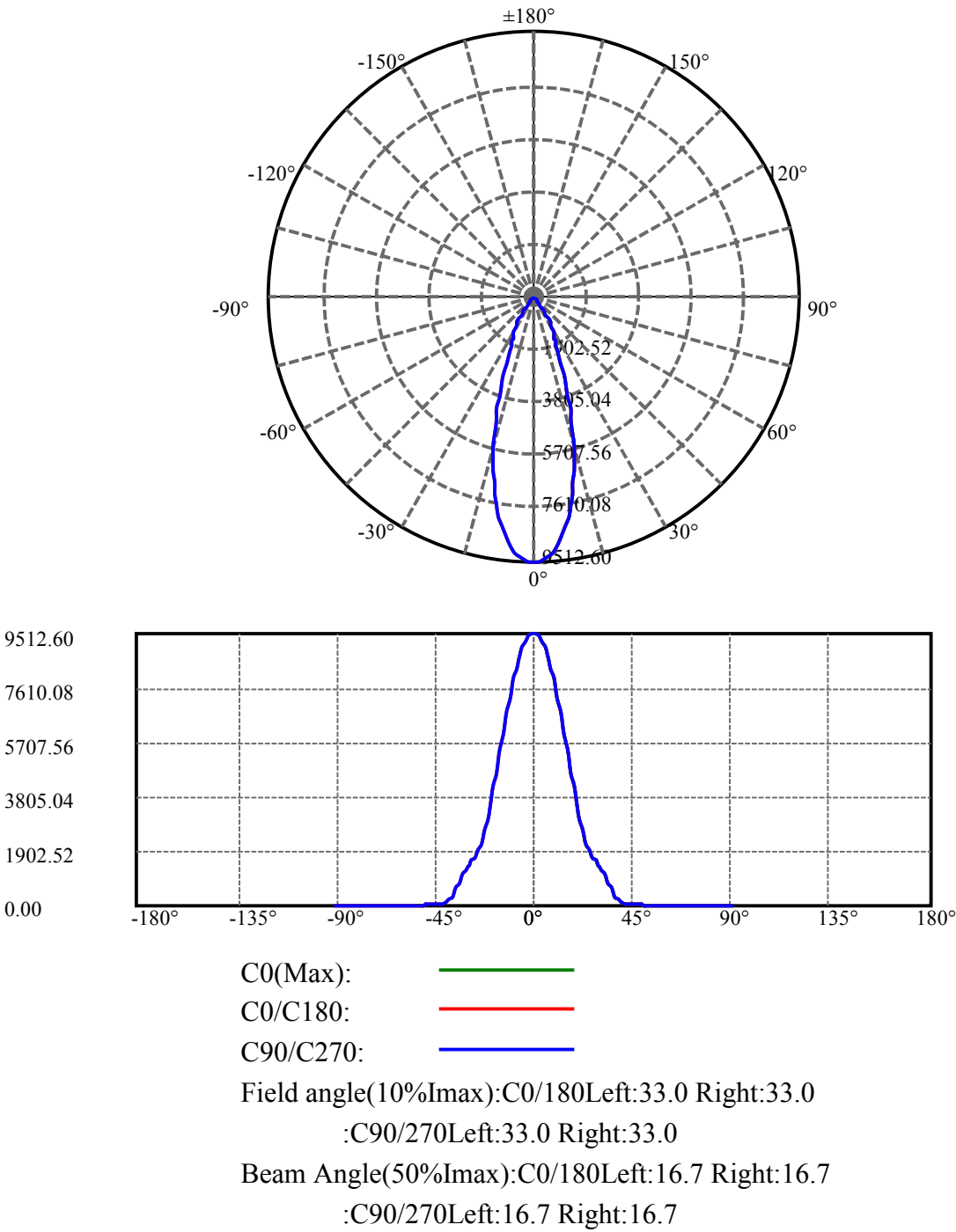
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	222.678	18.050	3622.775	0.47%	96.40%
39.0	178.538	13.695	3636.47	0.35%	96.76%
40.0	98.918	9.677	3646.146	0.25%	97.02%
41.0	63.555	5.786	3651.932	0.15%	97.17%
42.0	55.318	4.319	3656.251	0.11%	97.29%
43.0	48.588	3.849	3660.1	0.10%	97.39%
44.0	43.526	3.477	3663.577	0.09%	97.48%
45.0	39.430	3.188	3666.765	0.08%	97.57%
46.0	36.591	2.973	3669.738	0.08%	97.65%
47.0	34.148	2.813	3672.551	0.07%	97.72%
48.0	31.968	2.673	3675.224	0.07%	97.79%
49.0	30.132	2.550	3677.774	0.07%	97.86%
50.0	28.588	2.448	3680.222	0.06%	97.92%
51.0	27.206	2.361	3682.583	0.06%	97.99%
52.0	26.057	2.286	3684.868	0.06%	98.05%
53.0	25.004	2.221	3687.09	0.06%	98.11%
54.0	24.155	2.167	3689.256	0.06%	98.16%
55.0	23.372	2.122	3691.378	0.05%	98.22%
56.0	22.729	2.083	3693.461	0.05%	98.28%
57.0	22.107	2.050	3695.511	0.05%	98.33%
58.0	21.602	2.021	3697.532	0.05%	98.38%
59.0	21.192	2.001	3699.533	0.05%	98.44%
60.0	20.754	1.982	3701.515	0.05%	98.49%
61.0	20.373	1.963	3703.477	0.05%	98.54%
62.0	20.059	1.948	3705.425	0.05%	98.60%
63.0	19.759	1.937	3707.362	0.05%	98.65%
64.0	19.510	1.927	3709.289	0.05%	98.70%
65.0	19.254	1.918	3711.207	0.05%	98.75%
66.0	19.042	1.911	3713.118	0.05%	98.80%
67.0	18.800	1.903	3715.021	0.05%	98.85%
68.0	18.669	1.898	3716.919	0.05%	98.90%
69.0	18.500	1.896	3718.815	0.05%	98.95%
70.0	18.347	1.892	3720.707	0.05%	99.00%
71.0	18.215	1.890	3722.597	0.05%	99.05%
72.0	18.076	1.887	3724.484	0.05%	99.10%
73.0	17.981	1.886	3726.37	0.05%	99.15%
74.0	17.886	1.886	3728.255	0.05%	99.20%
75.0	17.762	1.883	3730.139	0.05%	99.25%

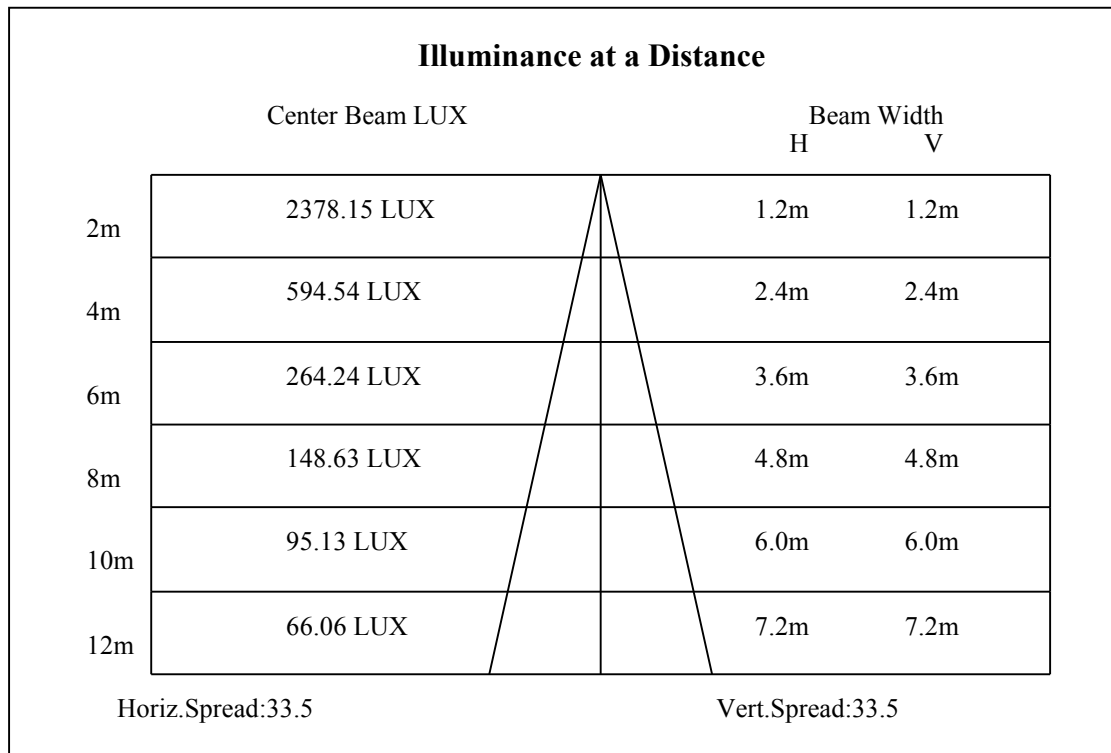
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.674	1.881	3732.02	0.05%	99.30%
77.0	17.593	1.880	3733.9	0.05%	99.35%
78.0	17.513	1.879	3735.779	0.05%	99.40%
79.0	17.447	1.878	3737.658	0.05%	99.45%
80.0	17.381	1.878	3739.535	0.05%	99.50%
81.0	17.330	1.877	3741.413	0.05%	99.55%
82.0	17.279	1.877	3743.289	0.05%	99.60%
83.0	17.206	1.875	3745.164	0.05%	99.65%
84.0	17.184	1.873	3747.037	0.05%	99.70%
85.0	17.111	1.872	3748.909	0.05%	99.75%
86.0	17.089	1.869	3750.779	0.05%	99.80%
87.0	17.052	1.868	3752.647	0.05%	99.85%
88.0	16.986	1.865	3754.512	0.05%	99.90%
89.0	16.935	1.859	3756.371	0.05%	99.95%
90.0	16.942	1.857	3758.228	0.05%	100.00%

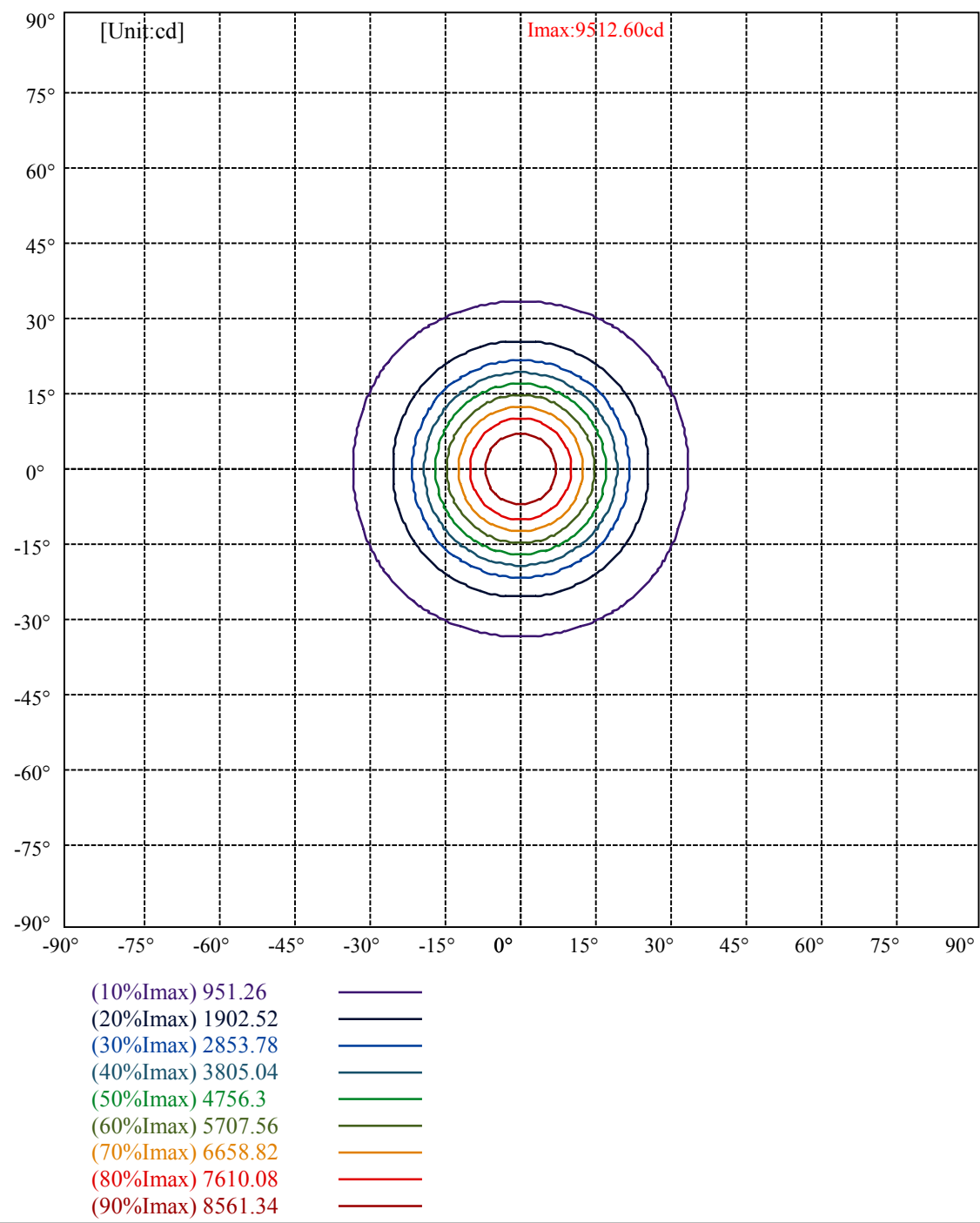
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3249.68	84.11%	86.47%
0-40	3646.15	94.37%	97.02%
0-60	3701.51	95.80%	98.49%
0-90	3756.37	97.22%	99.95%
0-120	3756.37	97.22%	99.95%
0-180	3758.23	97.27%	100.00%
60-90	54.86	1.42%	1.46%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.91	3006.58	77.82%	80.00%

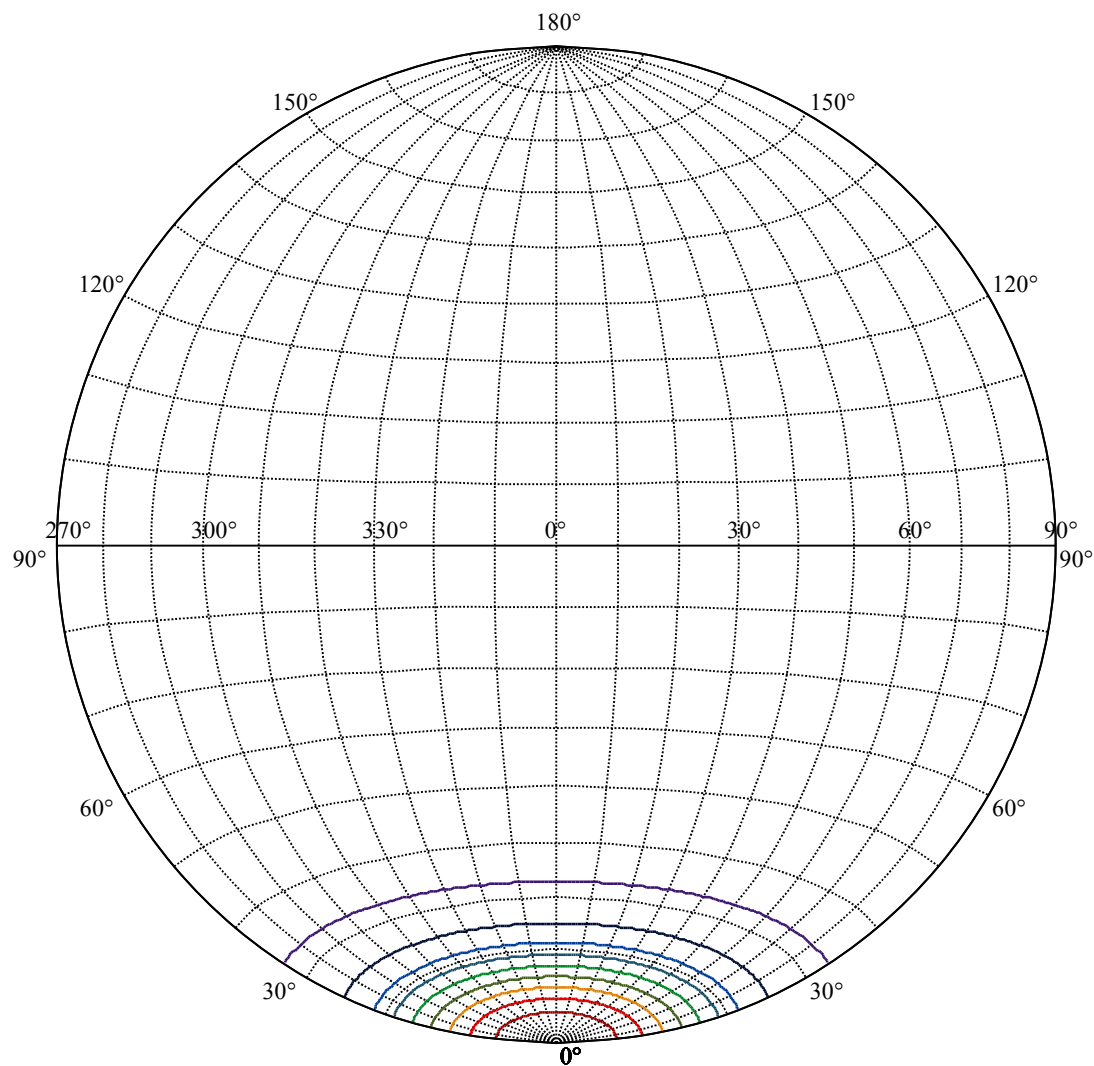
ZONAL LUMEN SUMMARY

0-10	816.39
10-20	1496.73
20-30	936.55
30-40	396.47
40-50	34.08
50-60	21.29
60-70	19.19
70-80	18.83
80-90	16.84
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







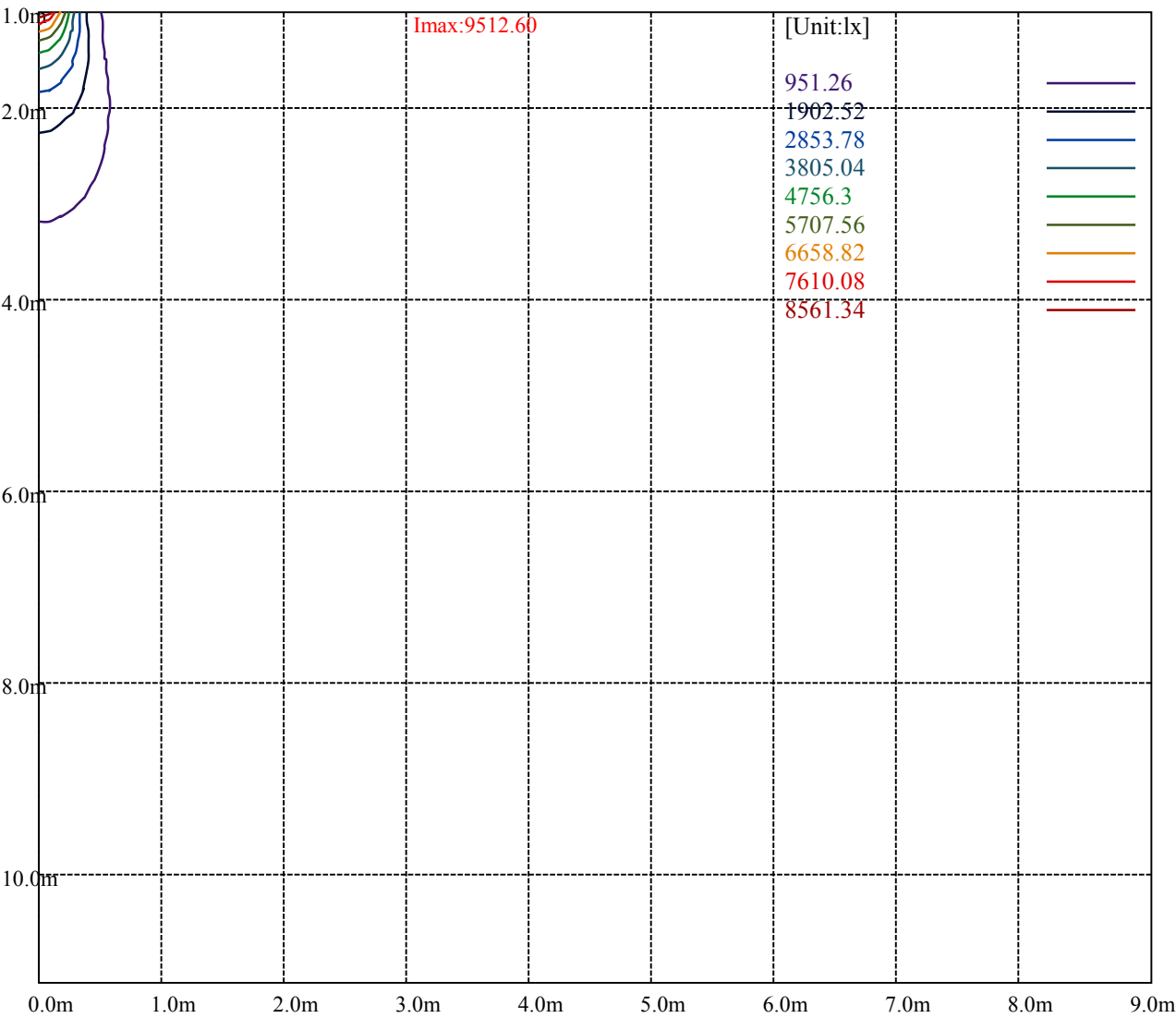


House

[Unit:cd]

Road

Imax:9512.60	
(10%Imax) 951.26	
(20%Imax) 1902.52	
(30%Imax) 2853.78	
(40%Imax) 3805.04	
(50%Imax) 4756.3	
(60%Imax) 5707.56	
(70%Imax) 6658.82	
(80%Imax) 7610.08	
(90%Imax) 8561.34	



Luminance Table

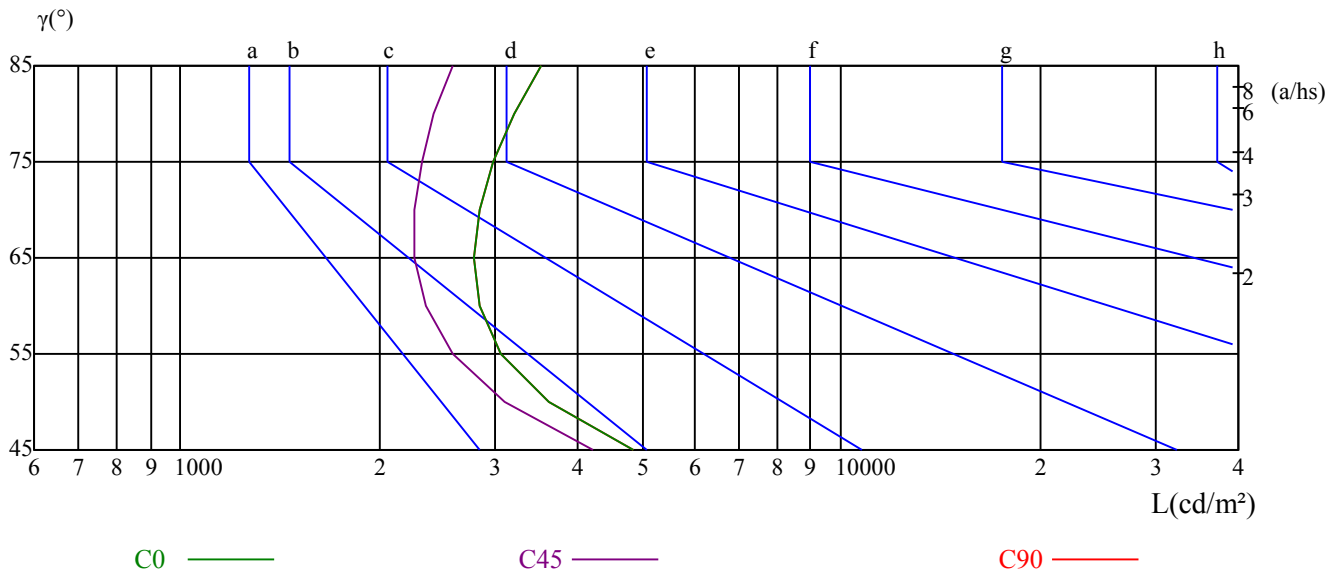
γ	45	50	55	60	65	70	75	80	85
C0	4859	3619	3065	2846	2788	2838	2973	3195	3518
C45	4213	3091	2578	2354	2265	2260	2314	2423	2586
C90	4859	3619	3065	2846	2788	2838	2973	3195	3518

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6306	6306	6306	9498	9498	9498	27172	27172	27172

Glare Table

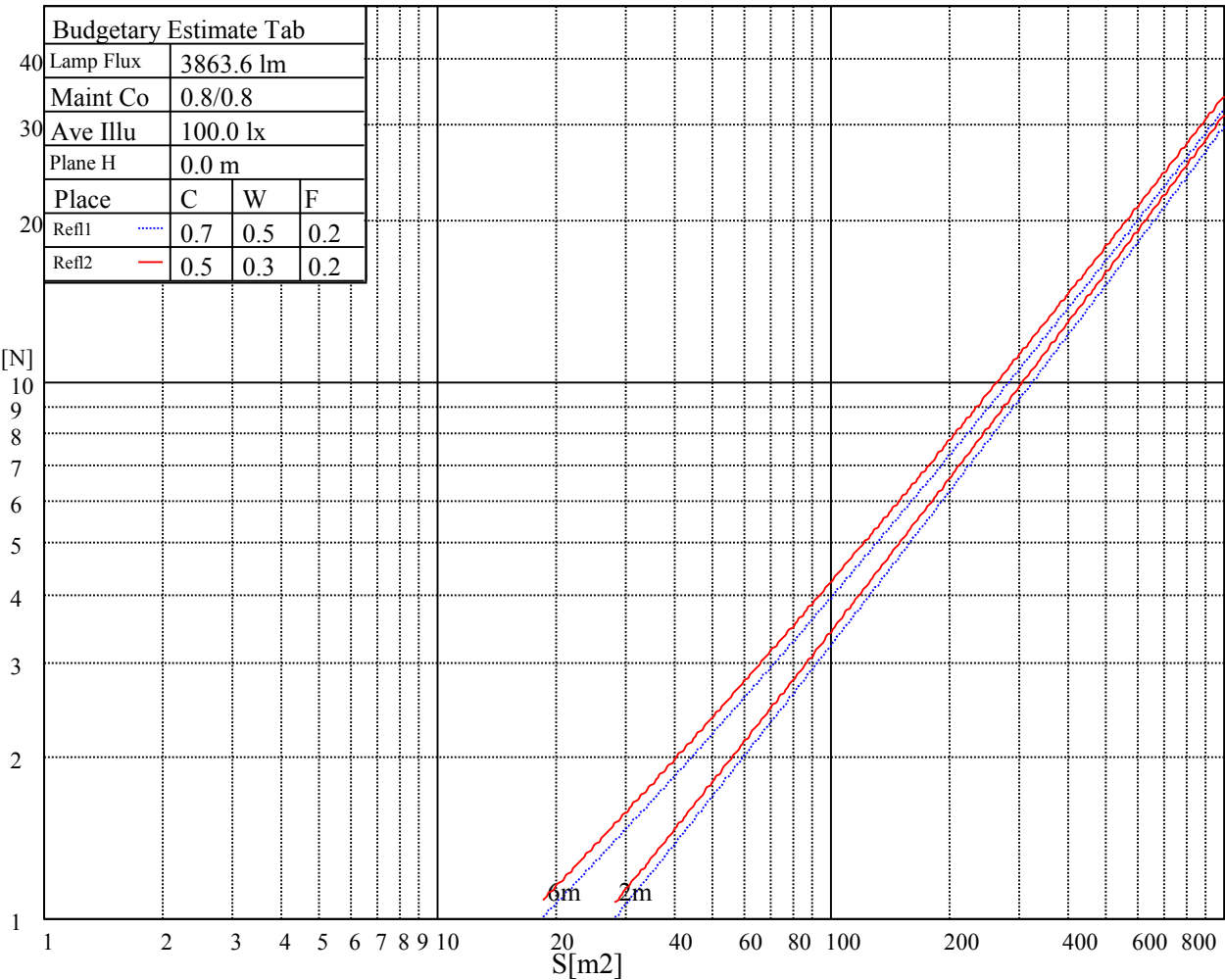
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

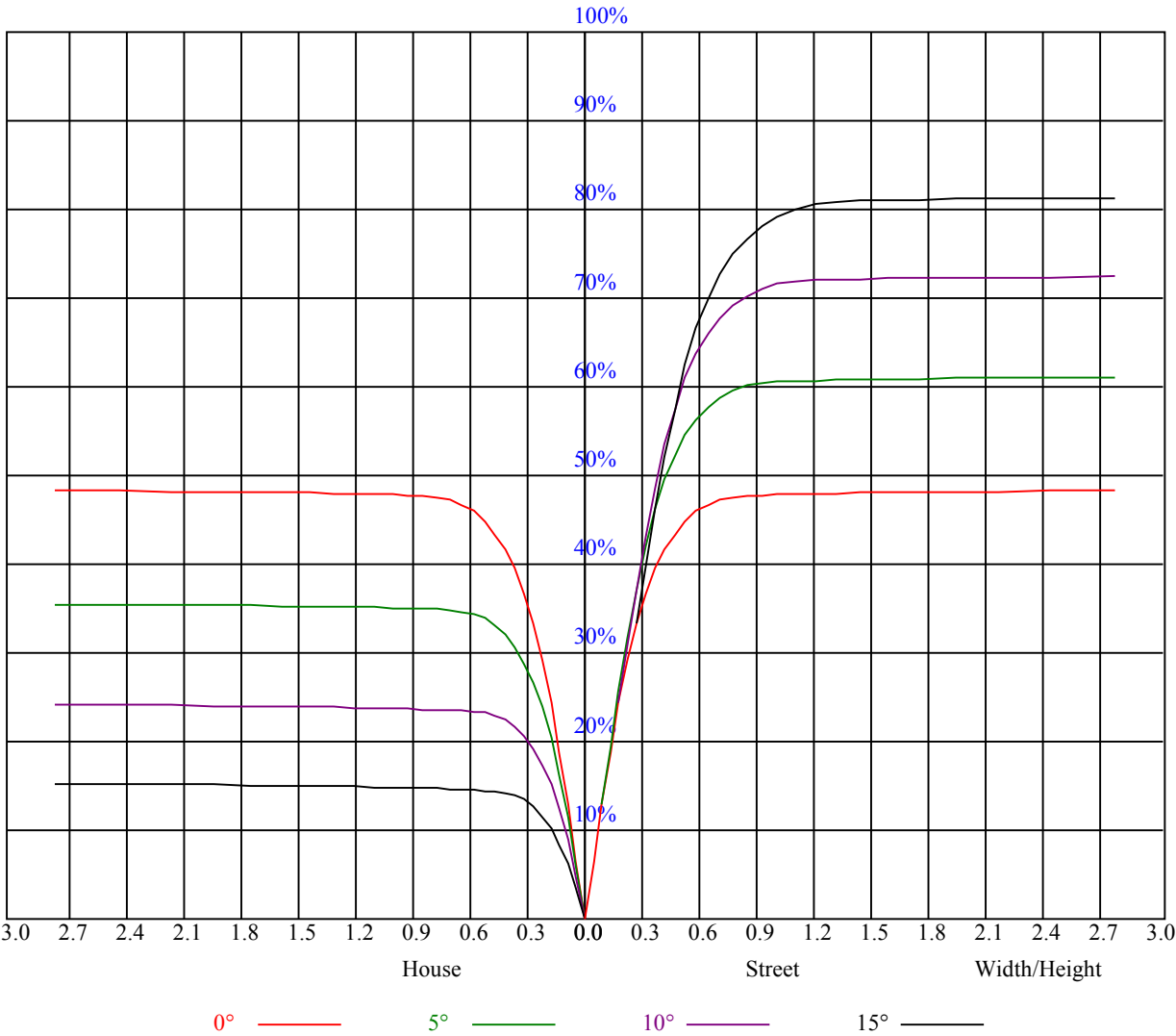


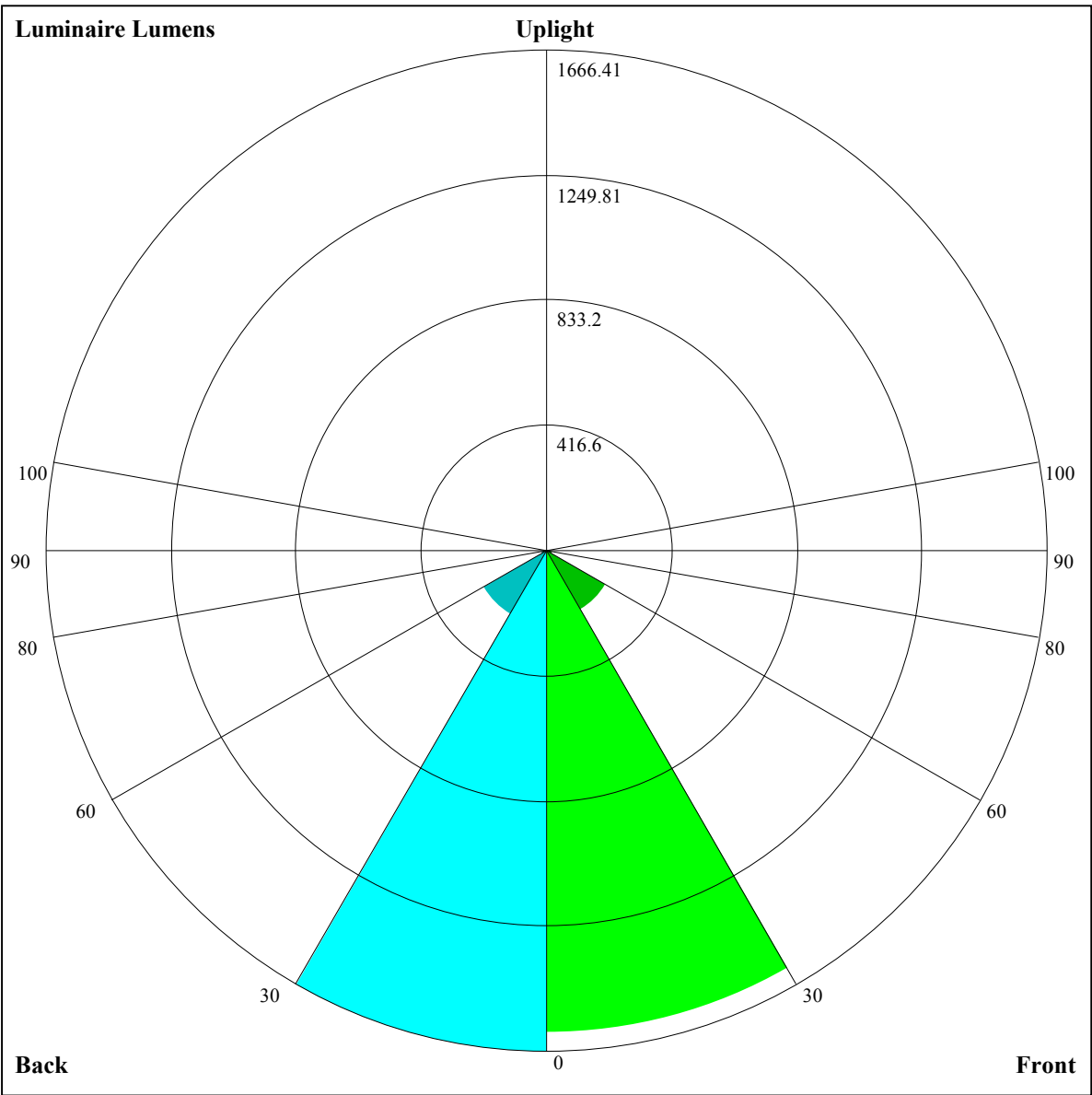
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.22	16.15	15.58	16.46	16.77	16.18	17.10	16.54	17.41	17.73
	3H	15.18	16.00	15.57	16.34	16.69	16.10	16.92	16.48	17.26	17.60
	4H	15.23	15.99	15.63	16.35	16.72	16.11	16.87	16.51	17.22	17.59
	6H	15.39	16.08	15.80	16.46	16.86	16.20	16.90	16.62	17.28	17.68
	8H	15.48	16.14	15.90	16.53	16.94	16.26	16.92	16.68	17.31	17.72
	12H	15.61	16.24	16.04	16.63	17.05	16.34	16.97	16.77	17.37	17.79
4H	2H	14.95	15.71	15.35	16.07	16.44	15.89	16.65	16.29	17.01	17.38
	3H	14.96	15.60	15.39	16.00	16.41	15.84	16.48	16.26	16.87	17.29
	4H	15.13	15.69	15.57	16.11	16.56	15.95	16.51	16.39	16.93	17.38
	6H	15.38	15.87	15.86	16.33	16.78	16.12	16.61	16.59	17.06	17.51
	8H	15.59	16.05	16.08	16.51	16.98	16.27	16.73	16.76	17.19	17.66
	12H	15.87	16.28	16.36	16.74	17.26	16.48	16.90	16.97	17.35	17.88
8H	4H	15.07	15.52	15.56	15.98	16.46	15.86	16.31	16.34	16.77	17.25
	6H	15.45	15.82	15.96	16.30	16.81	16.13	16.50	16.63	16.98	17.49
	8H	15.82	16.13	16.35	16.65	17.15	16.43	16.73	16.96	17.26	17.76
	12H	16.24	16.47	16.78	16.99	17.52	16.77	17.00	17.31	17.52	18.04
12H	4H	15.05	15.47	15.54	15.92	16.45	15.83	16.25	16.33	16.70	17.23
	6H	15.52	15.83	16.05	16.35	16.85	16.18	16.49	16.72	17.01	17.51
	8H	15.90	16.14	16.45	16.66	17.18	16.49	16.72	17.03	17.24	17.77
Variation with the observer position at spacings:											
S = 1.0H		5.9/-6.3					5.9/-6.3				
S = 1.5H		8.1/-4.8					8.1/-4.8				
S = 2.0H		9.6/-3.9					9.6/-3.9				
Standard tables:		BK2					BK2				
Uncorrected UGR		-2.2					-2.2				

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 RHOFC=20 CU															
0	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.09	1.06	1.04	1.06	1.04	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.02	0.99	0.96	1.01	0.98	0.95	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.87
3	0.97	0.93	0.89	0.95	0.92	0.89	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.86	0.85	0.83
4	0.92	0.87	0.84	0.91	0.87	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.81	0.79
5	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.72
7	0.80	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
9	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.64
10	0.71	0.66	0.63	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61





Luminaire Lumens:

FL=1604.54,FM=226.65,FH=19.1,FVH=9.35

BL=1666.41,BM=241.46,BH=19.05,BVH=9.33

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	9522.25	9474.85	9384.73	9254.81	9044.71	8843.39	8561.90	8306.74	8022.91
45.0	9516.99	9525.77	9502.94	9446.76	9320.94	9175.80	8995.55	8781.94	8468.85
90.0	9526.35	9510.55	9455.54	9377.12	9263.00	9112.01	8876.75	8644.42	8374.04
135.0	9484.80	9527.52	9523.42	9477.19	9398.77	9281.73	9133.67	8908.35	8694.75
180.0	9522.25	9525.77	9495.33	9426.86	9322.69	9152.39	8989.11	8803.01	8592.92
225.0	9516.99	9471.34	9397.60	9288.16	9143.61	8916.55	8693.58	8433.74	8057.44
270.0	9526.35	9515.23	9476.02	9382.97	9269.44	9122.55	8888.46	8655.54	8312.59
315.0	9484.80	9408.14	9294.60	9101.48	8910.11	8685.38	8357.66	8059.19	7729.71
360.0	9522.25	9474.85	9384.73	9254.81	9044.71	8843.39	8561.90	8306.74	8022.91

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7632.56	7291.96	6927.37	6544.04	6044.26	5633.43	5213.24	4780.18	4237.09
45.0	8183.26	7787.65	7441.78	7080.11	6611.35	6233.88	5853.48	5377.69	4997.88
90.0	7981.36	7631.39	7252.75	6757.07	6355.60	5957.65	5470.16	5085.66	4711.70
135.0	8450.12	8177.41	7789.40	7449.39	7085.96	6705.57	6208.13	5798.47	5275.28
180.0	8289.77	8006.52	7682.89	7218.81	6822.61	6305.27	5867.52	5415.15	4836.94
225.0	7719.18	7266.21	6884.06	6491.96	5994.52	5599.49	5205.63	4810.02	4313.75
270.0	7994.23	7639.00	7155.02	6738.92	6331.02	5934.24	5440.90	5056.99	4678.93
315.0	7377.99	6920.93	6542.87	6154.28	5759.26	5264.74	4867.96	4468.84	3966.13
360.0	7632.56	7291.96	6927.37	6544.04	6044.26	5633.43	5213.24	4780.18	4237.09

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3809.29	3382.07	2867.08	2494.29	2175.93	1872.19	1707.16	1586.60	1474.83
45.0	4624.51	4250.55	3876.00	3409.58	3054.93	2731.30	2389.53	2176.51	1967.00
90.0	4347.11	3893.56	3540.08	3202.99	2894.00	2565.10	2357.93	2188.21	2012.06
135.0	4859.18	4445.43	3923.99	3510.82	3112.29	2743.59	2347.98	2098.68	1905.55
180.0	4364.08	3894.73	3431.23	2888.73	2499.55	2175.93	1921.35	1698.38	1576.65
225.0	3918.73	3532.48	3162.03	2820.84	2460.34	2233.28	2010.89	1871.02	1751.64
270.0	4302.05	3928.67	3485.66	3149.74	2778.12	2527.06	2329.25	2129.69	2000.36
315.0	3567.00	3086.54	2728.96	2414.11	2155.44	1915.50	1772.71	1657.42	1560.85
360.0	3809.29	3382.07	2867.08	2494.29	2175.93	1872.19	1707.16	1586.60	1474.83

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1405.18	1349.00	1149.38	1149.38	1093.38	964.86	820.19	625.78	469.88
45.0	1828.89	1709.50	1587.77	1506.43	1412.21	1285.21	1099.11	942.86	783.67
90.0	1885.65	1774.46	1656.25	1552.66	1136.62	1136.62	1053.46	880.35	668.21
135.0	1754.56	1604.75	1509.35	1433.27	1347.83	1257.71	1137.74	963.92	811.77
180.0	1484.19	1390.55	1333.79	1270.00	1193.92	1090.92	963.92	783.67	630.35
225.0	1625.23	1539.79	1450.83	1152.07	1152.07	996.05	836.93	642.34	490.59
270.0	1884.48	1783.24	1669.71	1565.54	1430.35	1233.71	1066.92	896.62	731.00
315.0	1463.12	1395.23	1157.75	1157.75	1016.07	863.97	670.73	521.32	378.82
360.0	1405.18	1349.00	1149.38	1149.38	1093.38	964.86	820.19	625.78	469.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	328.78	186.16	106.10	54.60	44.30	39.09	34.41	31.54	29.90
45.0	623.91	434.30	297.35	297.35	162.34	71.28	61.86	52.32	45.82
90.0	509.56	367.64	247.55	143.38	106.98	92.58	80.06	67.71	59.28
135.0	656.10	466.48	326.03	326.03	180.60	58.52	48.69	42.66	38.27
180.0	478.77	339.49	307.89	171.82	56.77	42.08	36.23	33.07	29.85
225.0	351.19	229.12	120.21	80.76	68.59	57.53	51.03	44.89	40.32
270.0	534.95	392.16	299.69	299.69	125.30	106.04	93.17	82.11	72.86
315.0	223.97	129.33	76.61	54.66	46.47	41.32	37.10	34.41	31.89
360.0	328.78	186.16	106.10	54.60	44.30	39.09	34.41	31.54	29.90

Intensity data(cd)

Appendix Page: 19 Total:20

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	28.56	27.45	26.28	25.40	24.70	24.11	23.41	22.88	22.41
45.0	41.49	37.57	35.00	32.77	30.84	28.73	27.39	26.22	25.28
90.0	52.14	47.34	43.19	38.92	35.99	33.53	31.43	29.20	27.74
135.0	33.36	31.25	29.55	27.86	26.69	25.63	24.46	23.82	23.06
180.0	27.97	26.86	25.81	25.11	24.40	23.76	23.17	22.71	22.30
225.0	37.40	34.88	32.19	30.37	28.91	27.56	26.10	25.11	24.23
270.0	64.26	58.52	53.49	48.98	44.07	40.85	37.92	35.35	32.48
315.0	30.26	28.85	27.68	26.34	25.46	24.52	23.76	23.17	22.53
360.0	28.56	27.45	26.28	25.40	24.70	24.11	23.41	22.88	22.41
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.00	21.65	21.24	20.95	20.66	20.37	20.13	19.96	19.72
45.0	24.23	23.53	22.94	22.18	21.71	21.24	20.83	20.48	20.07
90.0	26.39	25.28	24.11	23.29	22.59	22.00	21.30	20.83	20.37
135.0	22.47	22.00	21.59	21.13	20.72	20.48	20.25	19.84	19.66
180.0	21.95	21.48	21.24	20.83	20.66	20.37	20.07	19.84	19.66
225.0	23.53	22.71	22.18	21.54	21.13	20.83	20.31	20.01	19.72
270.0	30.61	28.68	27.27	26.04	24.76	23.94	23.12	22.24	21.71
315.0	22.06	21.65	21.24	20.89	20.60	20.31	20.01	19.78	19.55
360.0	22.00	21.65	21.24	20.95	20.66	20.37	20.13	19.96	19.72
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.49	19.31	19.14	18.96	18.79	18.67	18.49	18.38	18.26
45.0	19.84	19.61	19.37	19.14	18.84	18.73	18.55	18.43	18.26
90.0	20.01	19.72	19.31	19.14	18.84	18.67	18.43	18.26	18.14
135.0	19.49	19.31	19.08	18.90	18.67	18.61	18.49	18.32	18.20
180.0	19.43	19.20	19.02	18.84	18.67	18.61	18.49	18.38	18.20
225.0	19.43	19.20	18.96	18.79	18.61	18.43	18.32	18.14	18.08
270.0	21.07	20.60	20.19	19.78	19.37	19.14	18.84	18.67	18.43
315.0	19.31	19.14	18.96	18.79	18.61	18.49	18.38	18.20	18.14
360.0	19.49	19.31	19.14	18.96	18.79	18.67	18.49	18.38	18.26
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.14	18.08	17.97	17.85	17.73	17.67	17.62	17.56	17.50
45.0	18.14	18.02	17.97	17.85	17.73	17.67	17.56	17.44	17.38
90.0	17.97	17.91	17.79	17.67	17.56	17.50	17.44	17.38	17.32
135.0	18.08	18.02	17.91	17.85	17.79	17.67	17.62	17.56	17.44
180.0	18.08	18.02	17.97	17.79	17.73	17.62	17.50	17.44	17.44
225.0	17.91	17.79	17.73	17.56	17.50	17.44	17.38	17.32	17.21
270.0	18.26	18.08	17.91	17.79	17.73	17.62	17.50	17.44	17.38
315.0	18.02	17.91	17.85	17.73	17.62	17.56	17.50	17.44	17.38
360.0	18.14	18.08	17.97	17.85	17.73	17.67	17.62	17.56	17.50
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	17.44	17.44	17.32	17.32	17.26	17.21	17.15	17.09	17.03
45.0	17.38	17.26	17.21	17.21	17.09	17.09	17.03	16.97	16.91
90.0	17.21	17.26	17.15	17.09	17.03	17.03	16.97	16.91	16.85
135.0	17.38	17.32	17.32	17.21	17.15	17.15	17.15	17.09	17.03
180.0	17.38	17.26	17.21	17.26	17.15	17.15	17.21	17.09	17.03
225.0	17.21	17.15	17.09	17.09	17.03	16.97	16.91	16.85	16.85
270.0	17.32	17.21	17.15	17.09	17.03	17.03	16.97	16.91	16.85
315.0	17.32	17.32	17.21	17.21	17.15	17.09	17.03	16.97	16.91
360.0	17.44	17.44	17.32	17.32	17.26	17.21	17.15	17.09	17.03

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	17.09
45.0	16.85
90.0	16.85
135.0	16.97
180.0	17.03
225.0	16.91
270.0	16.85
315.0	16.97
360.0	17.09