



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

Nata

Client:

LumCAT: 1-1061-N	
Luminaire: 92.70.246.00	
Report No: 200922-B023	Voltage(V): 230.9000
Test No: 200922-C023	Current(A): 0.0910
LampCAT: SEOUL SAWX10 LES9.8	Power (W): 11.3600
Lamp flux(lm): 1166.0	PF: 0.5400
Number of Lamps: 1	Ballast type: AC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 936.56, Efficiency(%): 80.32% , Luminous Efficacy(lm/W): 82.44
Central intensity(cd): 3543.823, Maximum intensity(cd): 3543.823
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=25.6
 [C90/270]Total=25.6
Field angle(10%Imax): [C0/180]Total=53.2
 [C90/270]Total=53.2
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
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(%): 80.32%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.192%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2020/9/22
Humidity(%): 60.0%

Operator: NT07
Distance(m): 6.81

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3543.823	0.000	0	.000%	.000%
1.0	3527.292	3.383	3.383	.290%	.361%
2.0	3479.555	10.057	13.44	.863%	1.435%
3.0	3404.729	16.465	29.905	1.412%	3.193%
4.0	3303.222	22.454	52.359	1.926%	5.591%
5.0	3194.870	27.954	80.313	2.397%	8.575%
6.0	3039.245	32.762	113.075	2.810%	12.073%
7.0	2873.469	36.700	149.775	3.148%	15.992%
8.0	2698.064	39.874	189.65	3.420%	20.250%
9.0	2497.312	42.106	231.755	3.611%	24.745%
10.0	2301.606	43.428	275.184	3.725%	29.382%
11.0	2109.496	44.076	319.26	3.780%	34.089%
12.0	1911.470	43.955	363.215	3.770%	38.782%
13.0	1730.613	43.222	406.437	3.707%	43.397%
14.0	1560.080	42.121	448.558	3.612%	47.894%
15.0	1404.687	40.702	489.259	3.491%	52.240%
16.0	1227.218	38.565	527.824	3.307%	56.358%
17.0	1101.076	36.258	564.082	3.110%	60.229%
18.0	969.035	34.132	598.214	2.927%	63.874%
19.0	893.873	32.411	630.624	2.780%	67.334%
20.0	801.676	31.033	661.658	2.662%	70.648%
21.0	715.592	29.135	690.792	2.499%	73.759%
22.0	641.068	27.263	718.055	2.338%	76.670%
23.0	566.602	25.340	743.395	2.173%	79.375%
24.0	501.075	23.343	766.738	2.002%	81.868%
25.0	442.328	21.451	788.189	1.840%	84.158%
26.0	386.992	19.576	807.765	1.679%	86.248%
27.0	327.944	17.491	825.256	1.500%	88.116%
28.0	278.675	15.358	840.615	1.317%	89.756%
29.0	247.655	13.770	854.385	1.181%	91.226%
30.0	209.383	12.340	866.725	1.058%	92.544%
31.0	157.644	10.214	876.939	.876%	93.634%
32.0	127.366	8.165	885.104	.700%	94.506%
33.0	88.016	6.345	891.449	.544%	95.184%
34.0	67.151	4.696	896.145	.403%	95.685%
35.0	53.091	3.734	899.879	.320%	96.084%
36.0	44.025	3.092	902.972	.265%	96.414%
37.0	37.535	2.660	905.632	.228%	96.698%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	32.407	2.335	907.966	.200%	96.947%
39.0	28.236	2.070	910.036	.178%	97.168%
40.0	24.716	1.847	911.883	.158%	97.365%
41.0	21.949	1.662	913.544	.143%	97.543%
42.0	19.344	1.500	915.045	.129%	97.703%
43.0	17.268	1.356	916.401	.116%	97.848%
44.0	15.644	1.242	917.643	.107%	97.980%
45.0	13.985	1.139	918.782	.098%	98.102%
46.0	12.767	1.046	919.828	.090%	98.214%
47.0	11.531	0.966	920.794	.083%	98.317%
48.0	10.516	0.891	921.686	.076%	98.412%
49.0	9.640	0.828	922.513	.071%	98.500%
50.0	8.909	0.773	923.287	.066%	98.583%
51.0	8.132	0.721	924.008	.062%	98.660%
52.0	7.546	0.673	924.681	.058%	98.732%
53.0	7.053	0.635	925.316	.054%	98.800%
54.0	6.554	0.600	925.915	.051%	98.864%
55.0	6.166	0.568	926.483	.049%	98.924%
56.0	5.824	0.542	927.025	.046%	98.982%
57.0	5.534	0.519	927.544	.045%	99.038%
58.0	5.267	0.499	928.044	.043%	99.091%
59.0	5.046	0.482	928.526	.041%	99.142%
60.0	4.832	0.467	928.993	.040%	99.192%
61.0	4.664	0.453	929.446	.039%	99.241%
62.0	4.466	0.440	929.886	.038%	99.288%
63.0	4.258	0.424	930.31	.036%	99.333%
64.0	4.078	0.409	930.719	.035%	99.377%
65.0	3.886	0.394	931.113	.034%	99.419%
66.0	3.660	0.377	931.49	.032%	99.459%
67.0	3.492	0.360	931.849	.031%	99.497%
68.0	3.312	0.345	932.194	.030%	99.534%
69.0	3.121	0.328	932.522	.028%	99.569%
70.0	2.958	0.312	932.834	.027%	99.602%
71.0	2.761	0.296	933.13	.025%	99.634%
72.0	2.599	0.279	933.408	.024%	99.664%
73.0	2.459	0.264	933.673	.023%	99.692%
74.0	2.314	0.251	933.924	.022%	99.719%
75.0	2.164	0.237	934.161	.020%	99.744%

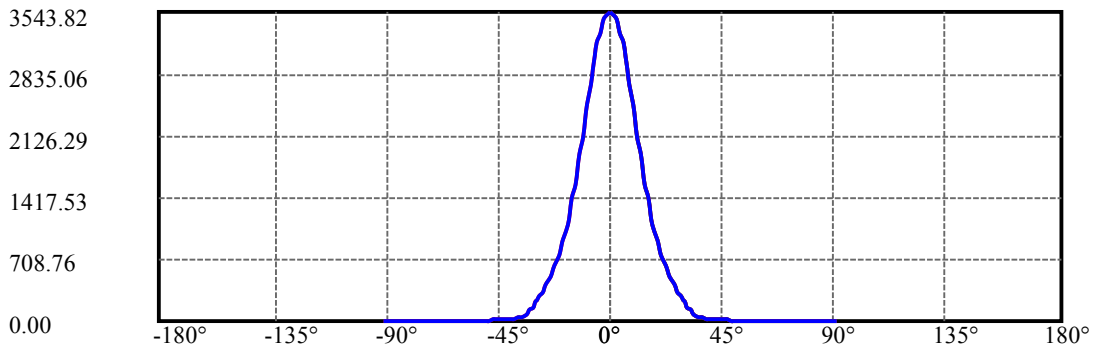
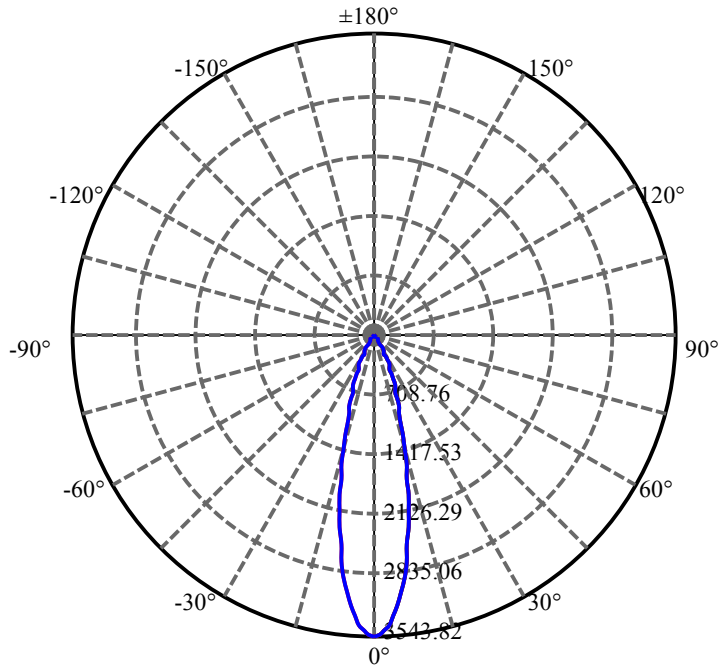
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.036	0.223	934.383	.019%	99.768%
77.0	1.920	0.211	934.594	.018%	99.790%
78.0	1.798	0.199	934.793	.017%	99.812%
79.0	1.653	0.185	934.979	.016%	99.831%
80.0	1.566	0.174	935.152	.015%	99.850%
81.0	1.537	0.168	935.32	.014%	99.868%
82.0	1.549	0.167	935.488	.014%	99.886%
83.0	1.508	0.166	935.654	.014%	99.903%
84.0	1.439	0.161	935.814	.014%	99.921%
85.0	1.415	0.156	935.97	.013%	99.937%
86.0	1.340	0.151	936.121	.013%	99.953%
87.0	1.247	0.142	936.262	.012%	99.968%
88.0	1.003	0.123	936.385	.011%	99.982%
89.0	0.760	0.097	936.482	.008%	99.992%
90.0	0.621	0.076	936.558	.006%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	866.72	74.33%	92.54%
0-40	911.88	78.21%	97.37%
0-60	928.99	79.67%	99.19%
0-90	936.48	80.32%	99.99%
0-120	936.48	80.32%	99.99%
0-180	936.56	80.32%	100.00%
60-90	7.96	0.68%	0.85%
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%
0-23.25	749.25	64.26%	80.00%

ZONAL LUMEN SUMMARY

0-10	275.18
10-20	386.47
20-30	205.07
30-40	45.16
40-50	11.40
50-60	5.71
60-70	3.84
70-80	2.32
80-90	1.33
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: —————

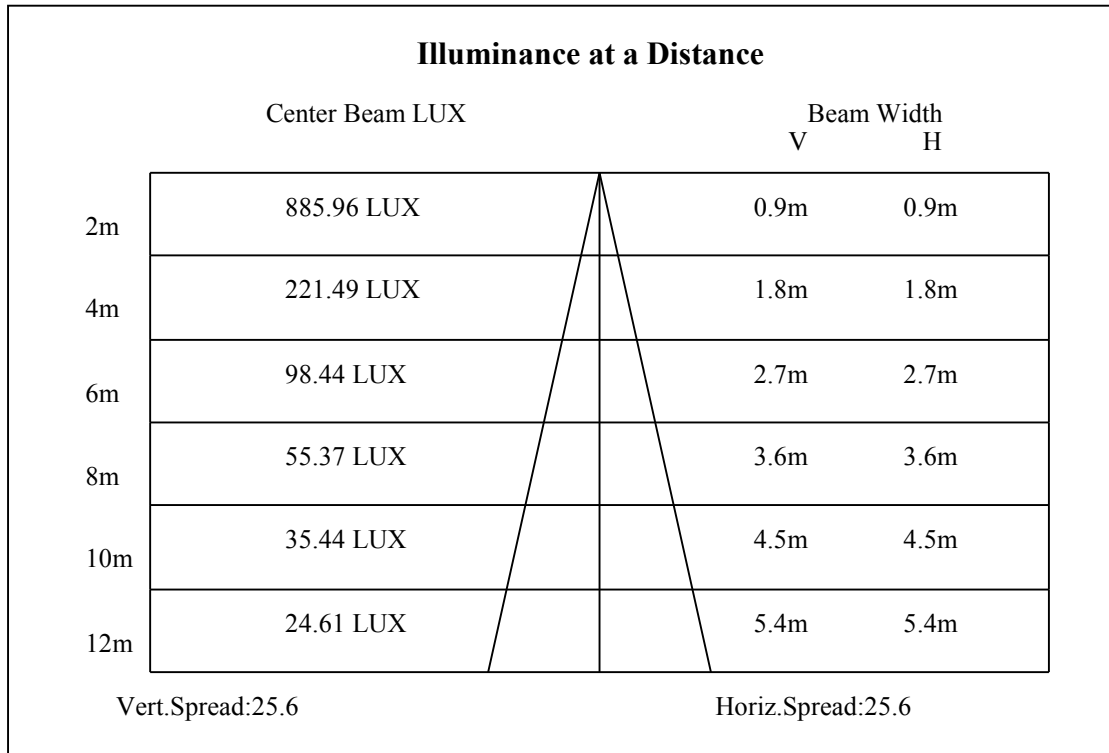
C90/C270: —————

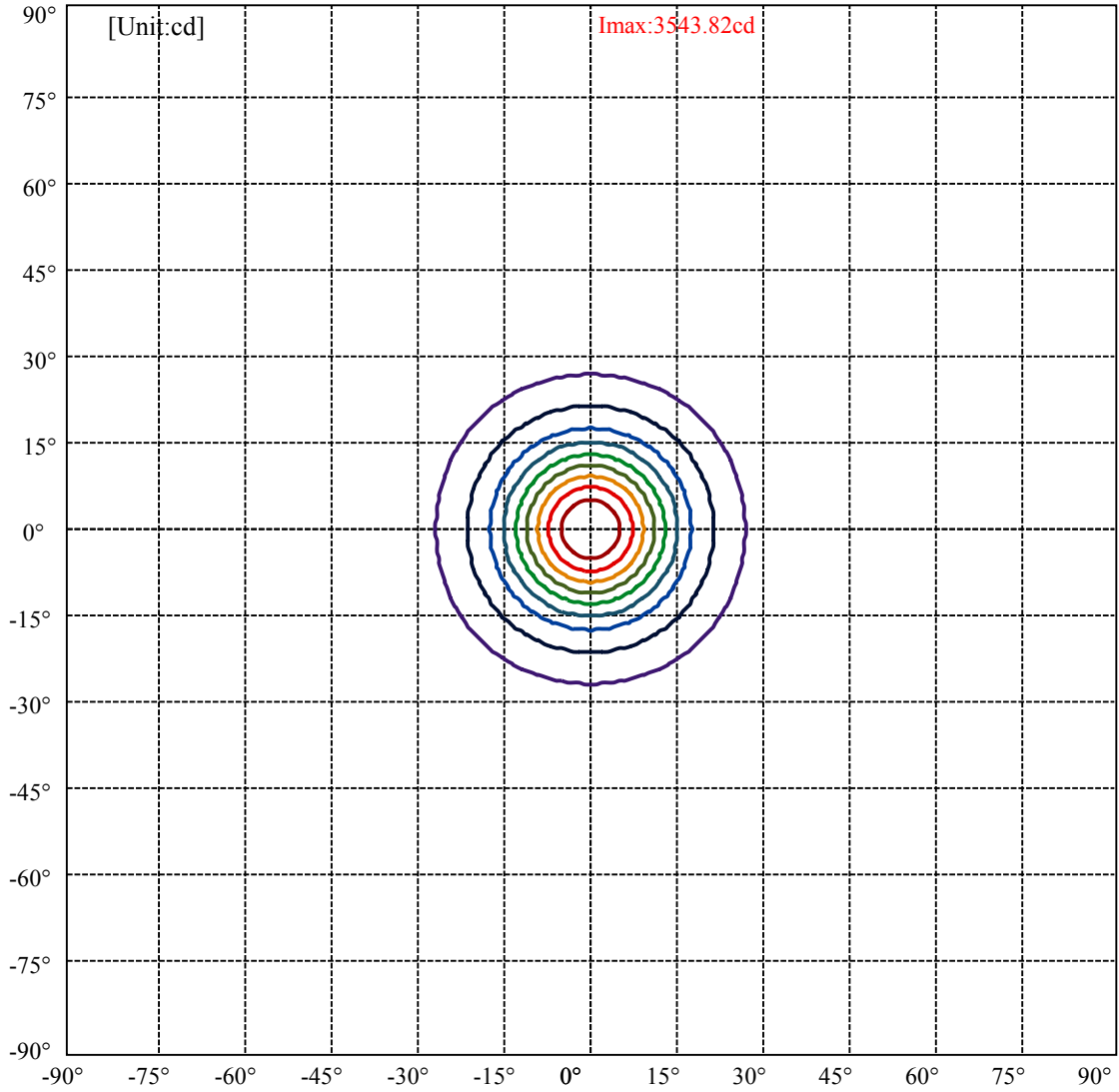
Field angle(10%Imax):C0/180Left:26.6 Right:26.6

:C90/270Left:26.6 Right:26.6

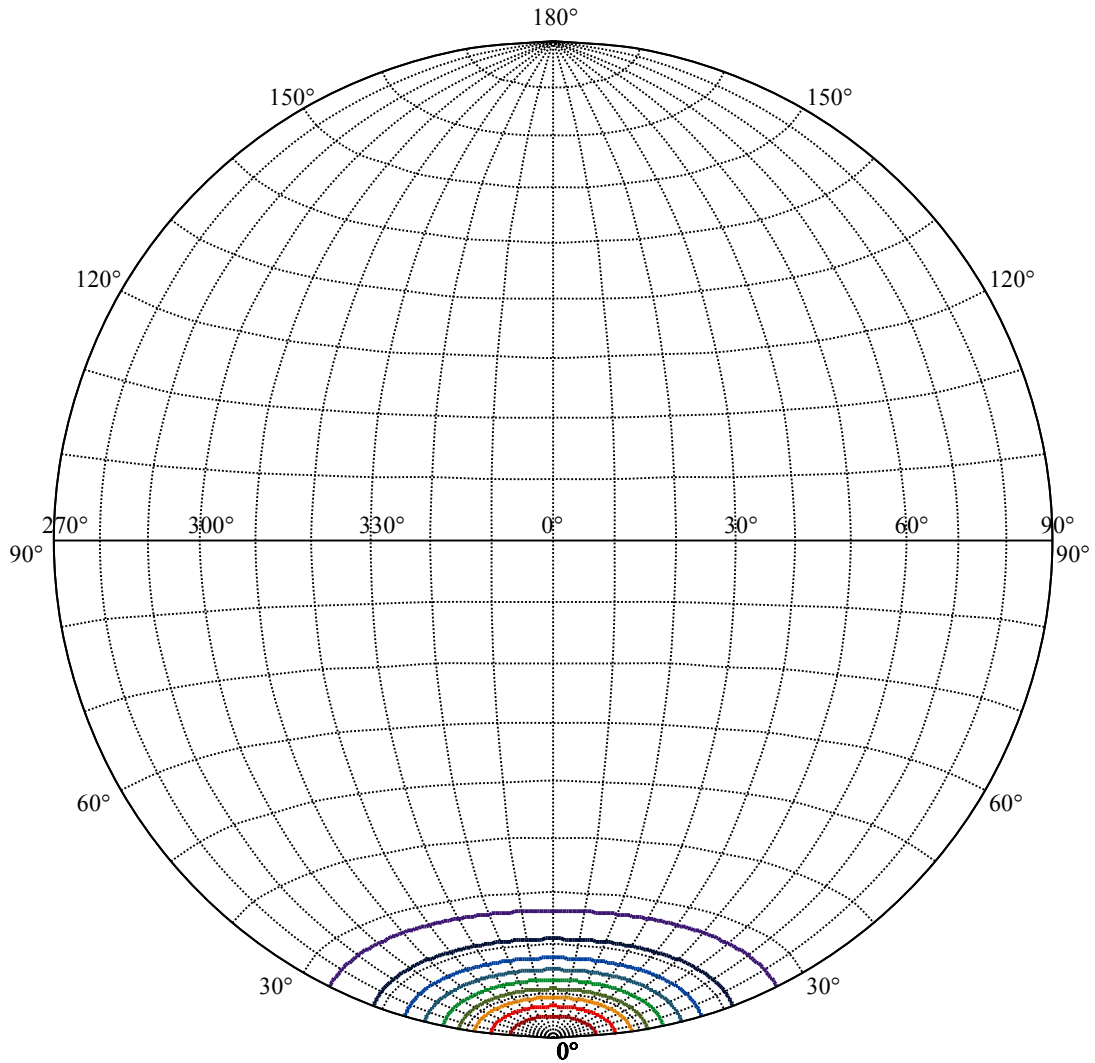
Beam Angle(50%Imax):C0/180Left:12.8 Right:12.8

:C90/270Left:12.8 Right:12.8





(10%Imax) 354.382	—
(20%Imax) 708.765	—
(30%Imax) 1063.15	—
(40%Imax) 1417.53	—
(50%Imax) 1771.91	—
(60%Imax) 2126.29	—
(70%Imax) 2480.68	—
(80%Imax) 2835.06	—
(90%Imax) 3189.44	—



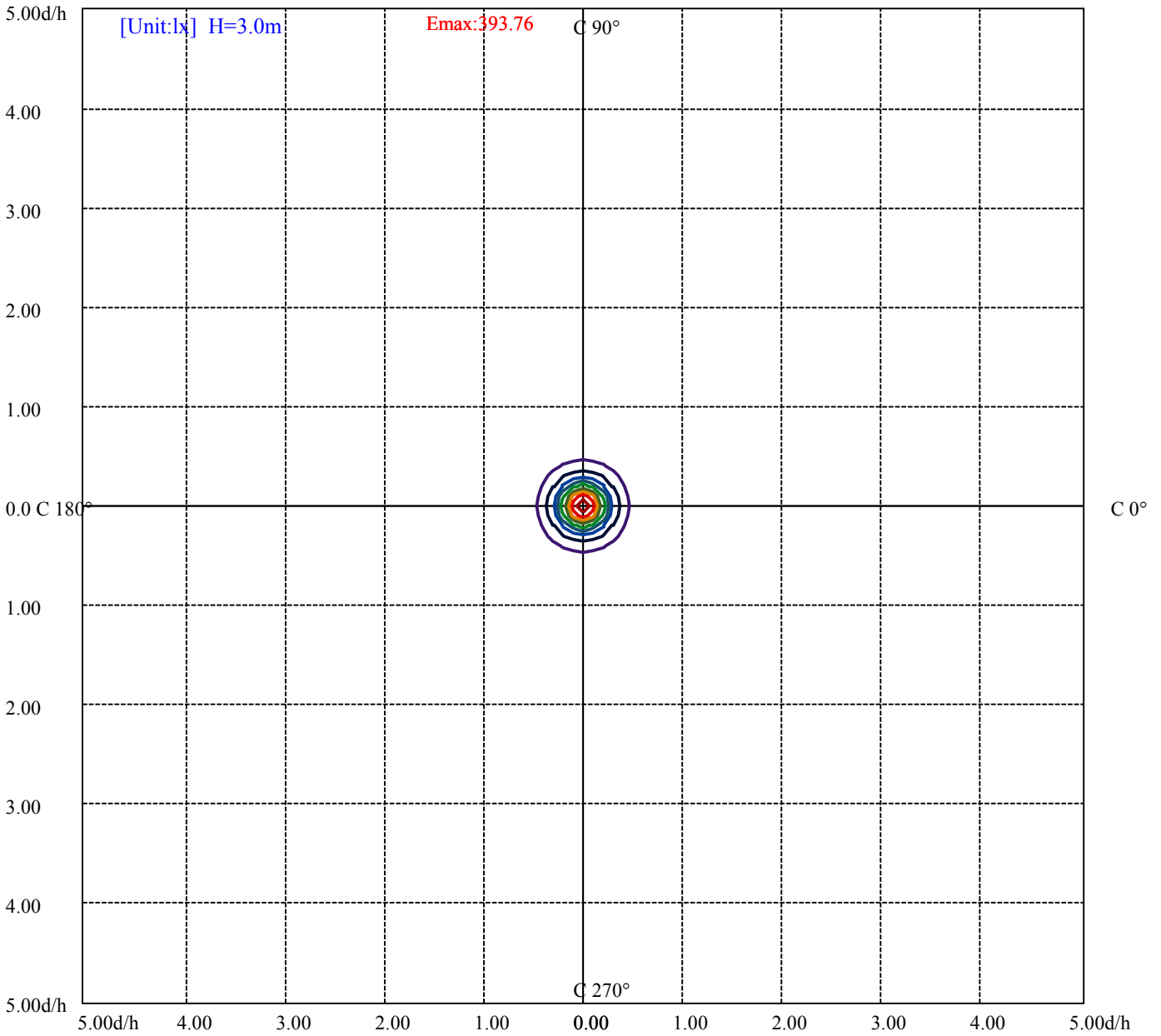
House

[Unit:cd]

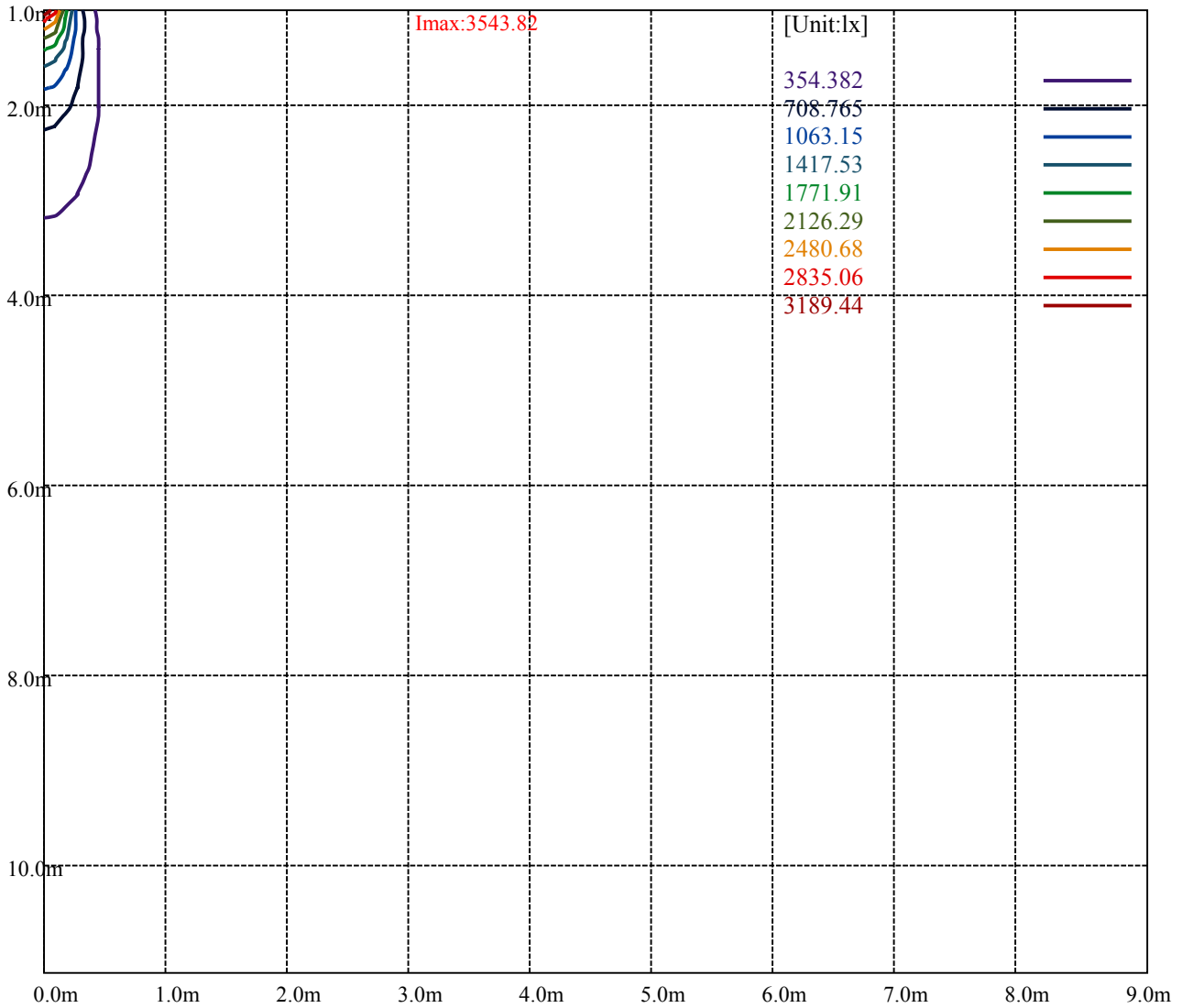
Road

Imax:3543.82

(10%Imax) 354.382	—
(20%Imax) 708.765	—
(30%Imax) 1063.15	—
(40%Imax) 1417.53	—
(50%Imax) 1771.91	—
(60%Imax) 2126.29	—
(70%Imax) 2480.68	—
(80%Imax) 2835.06	—
(90%Imax) 3189.44	—



- (10%Emax) 39.37578
- (20%Emax) 78.75156
- (30%Emax) 118.1278
- (40%Emax) 157.5033
- (50%Emax) 196.8789
- (60%Emax) 236.2545
- (70%Emax) 275.63
- (80%Emax) 315.0067
- (90%Emax) 354.3822



Luminance Table

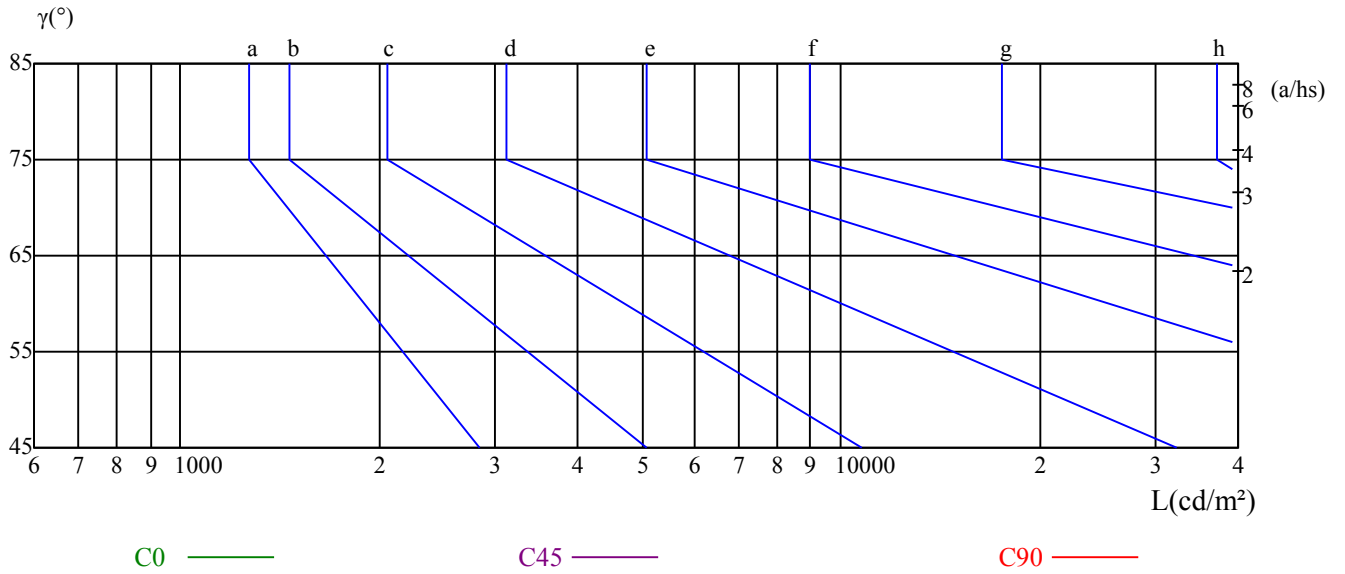
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

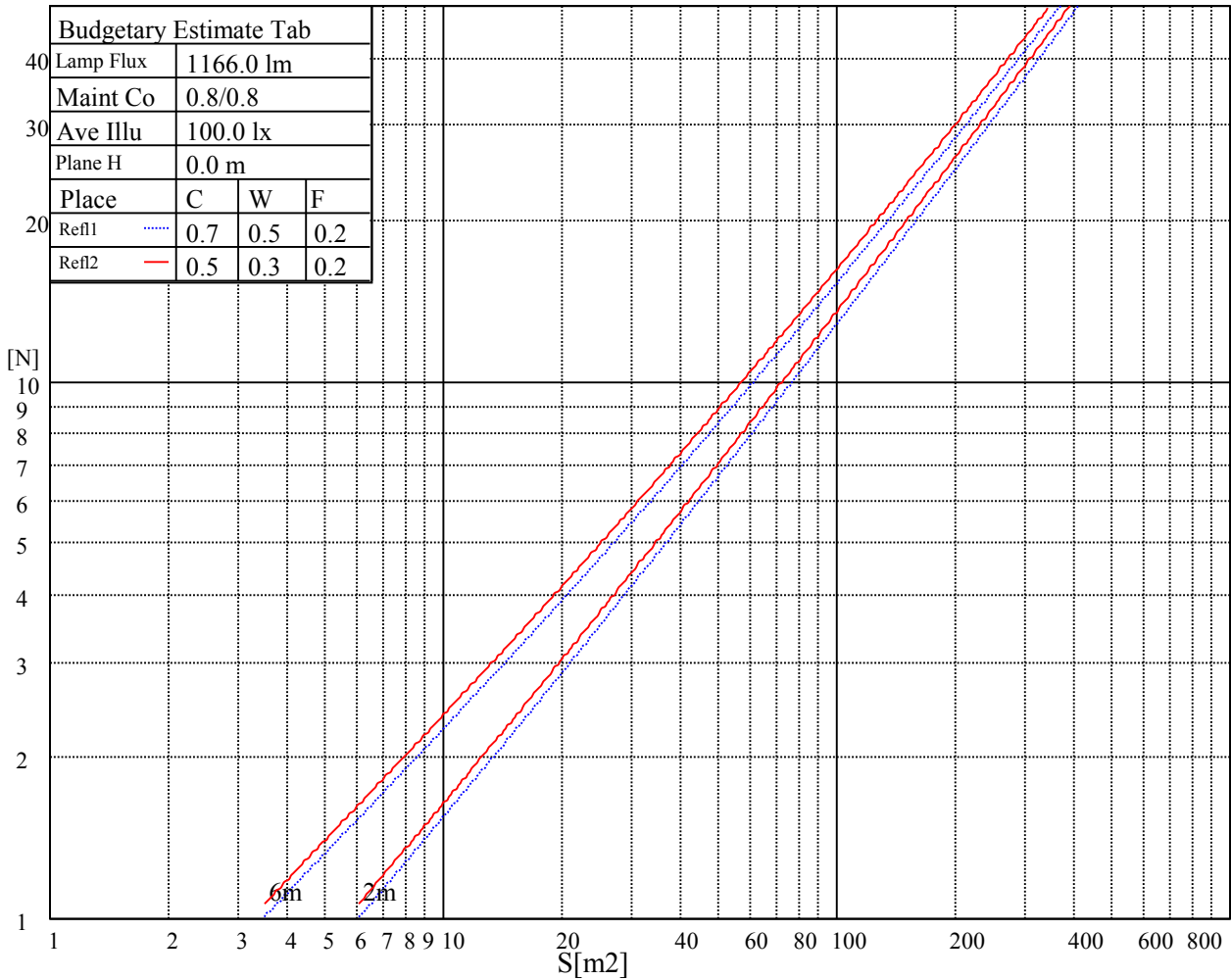
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

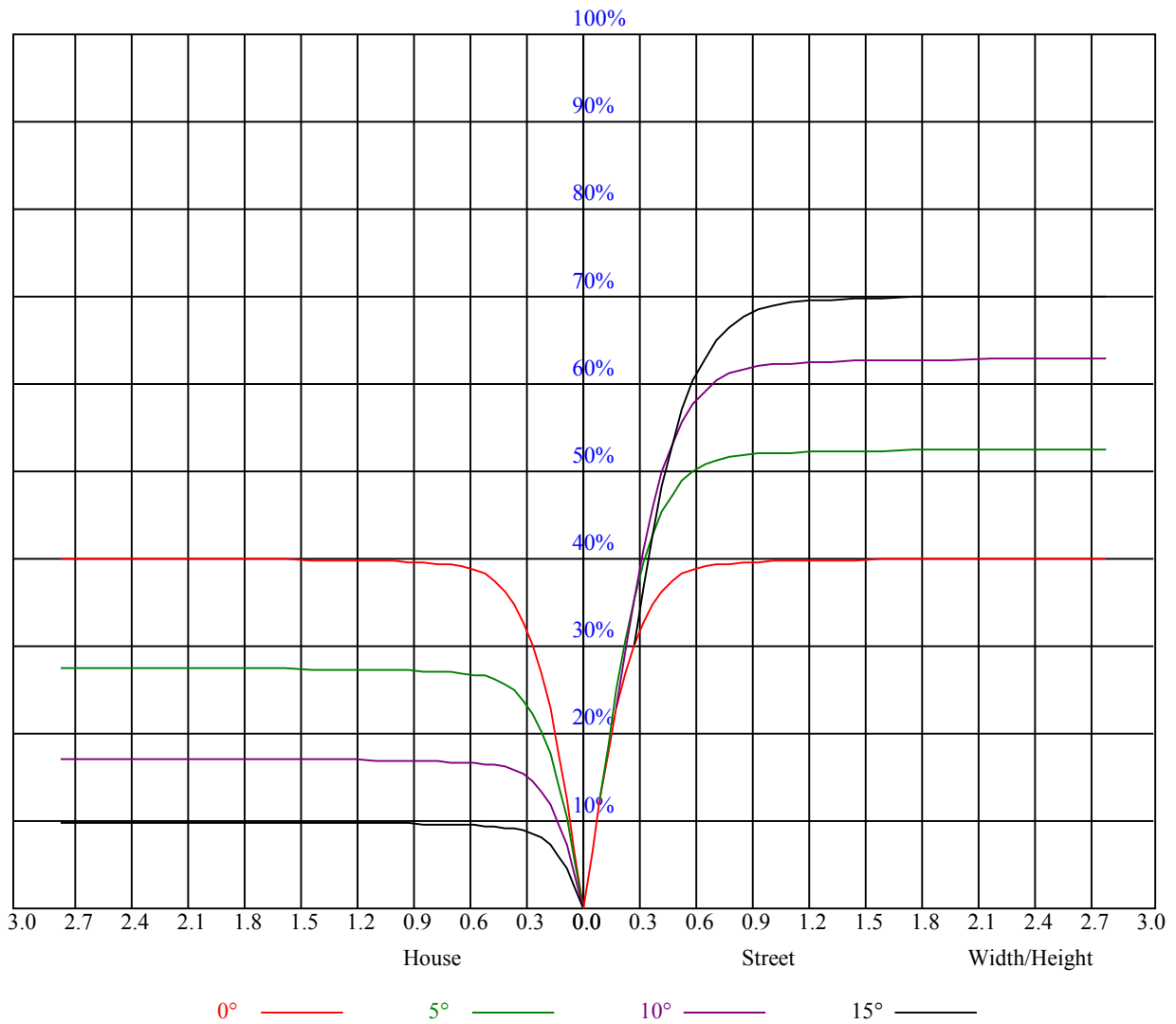


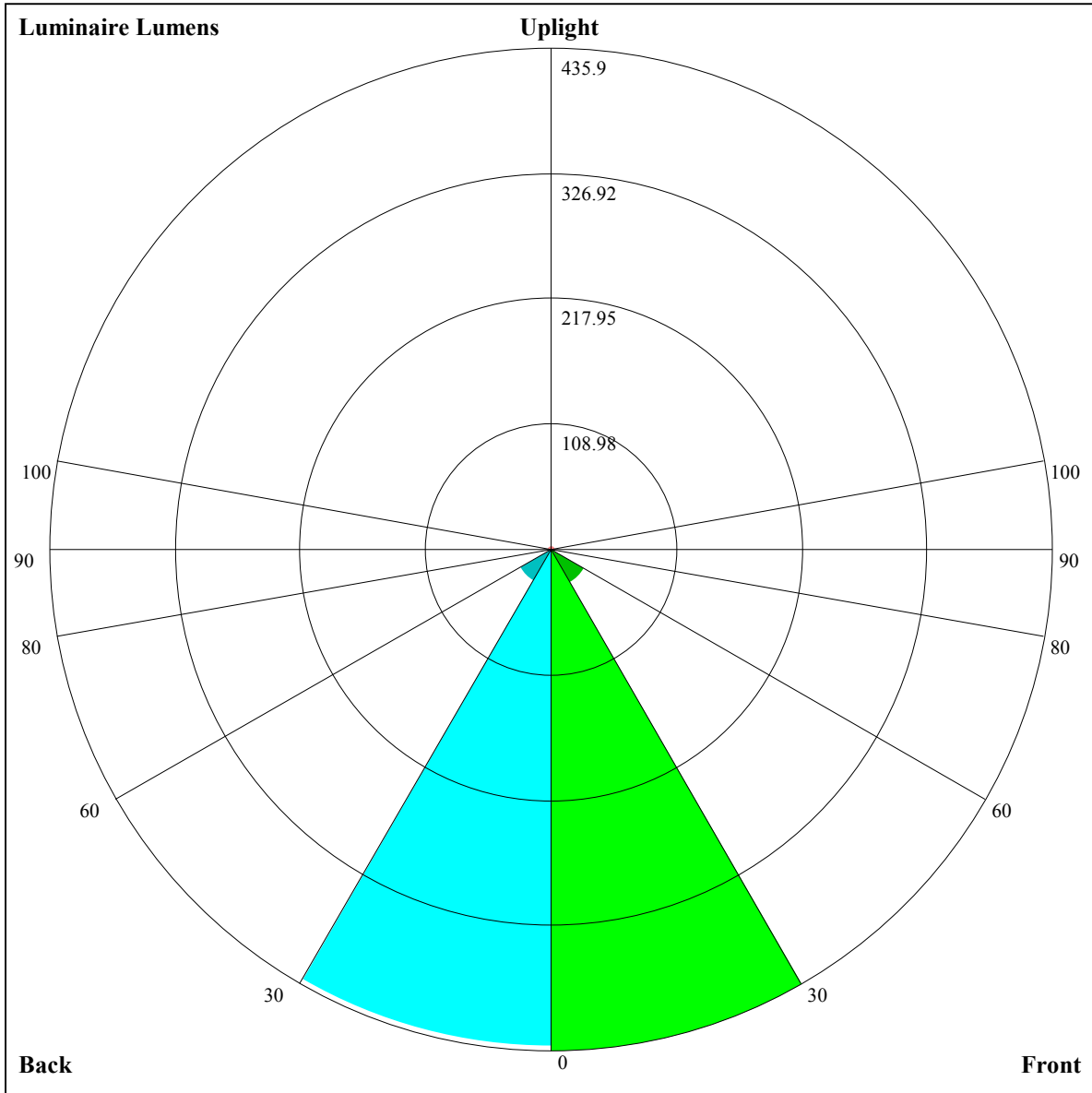
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	0.96	0.96	0.96	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.90	0.89	0.87	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.81	0.80	0.79	0.78	0.77
2	0.86	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.78	0.79	0.78	0.77	0.77	0.76	0.75	0.74
3	0.81	0.78	0.76	0.80	0.78	0.75	0.78	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.71
4	0.78	0.74	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.73	0.71	0.69	0.68
5	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.70	0.68	0.66	0.65
6	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.63
7	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61
8	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
9	0.64	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
10	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55





Luminaire Lumens:

FL=435.9,FM=32.9,FH=3.11,FVH=0.65

BL=431.38,BM=31.78,BH=3.05,BVH=0.65

UL=0.68,UH=3.22

BUG Rating:B1-U1-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	3559.83	3530.60	3471.20	3393.71	3287.91	3153.80	2995.10	2809.95	2617.38
45.0	3556.58	3540.34	3499.04	3435.47	3330.60	3255.43	3113.43	2948.24	2773.30
90.0	3512.50	3454.96	3358.91	3243.36	3094.41	2930.14	2745.45	2548.70	2345.46
135.0	3546.38	3518.07	3462.85	3375.15	3264.24	3117.14	2947.77	2777.01	2582.11
180.0	3559.83	3556.58	3515.75	3450.78	3358.91	3296.73	3100.44	2926.89	2818.31
225.0	3556.58	3535.70	3478.63	3396.49	3303.22	3183.97	3038.72	2863.78	2666.57
270.0	3512.50	3544.52	3548.23	3512.50	3443.36	3380.25	3257.75	3155.66	3008.10
315.0	3546.38	3537.56	3501.83	3430.37	3343.13	3241.51	3115.29	2957.52	2773.30
360.0	3559.83	3530.60	3471.20	3393.71	3287.91	3153.80	2995.10	2809.95	2617.38
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2411.81	2213.21	2009.03	1811.35	1620.17	1514.37	1354.28	1153.36	1035.95
45.0	2571.44	2372.37	2161.70	1960.77	1764.02	1582.12	1409.50	1259.15	1123.19
90.0	2140.82	1942.21	1748.71	1568.20	1403.01	1253.12	1174.24	906.67	866.91
135.0	2461.93	2171.44	1968.66	1851.73	1664.26	1489.78	1329.22	1189.09	1062.87
180.0	2551.95	2352.88	2230.84	2025.27	1827.60	1638.73	1461.47	1304.17	1164.96
225.0	2465.18	2258.68	2052.65	1854.05	1669.82	1495.35	1366.35	1196.97	1049.41
270.0	2797.43	2647.54	2455.43	2257.29	2050.33	1850.33	1661.47	1485.60	1323.19
315.0	2577.94	2454.50	2248.94	1963.09	1845.69	1656.83	1480.96	1322.73	1182.13
360.0	2411.81	2213.21	2009.03	1811.35	1620.17	1514.37	1354.28	1153.36	1035.95
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	888.07	851.97	762.64	680.55	604.87	539.53	478.37	415.03	355.87
45.0	1005.79	901.38	807.65	721.80	642.92	573.31	512.06	448.02	410.44
90.0	847.09	757.67	675.82	600.83	534.94	470.81	404.68	348.35	296.56
135.0	952.43	854.52	759.85	675.40	599.30	532.01	467.51	407.19	352.90
180.0	1042.45	930.16	832.24	743.61	660.09	585.38	520.88	458.70	394.66
225.0	923.89	886.16	794.56	708.39	628.86	559.11	494.71	432.34	376.52
270.0	1178.88	1055.44	944.08	846.16	757.53	675.40	598.84	532.48	496.75
315.0	913.68	913.68	836.56	747.98	700.04	597.26	531.55	496.52	412.25
360.0	888.07	851.97	762.64	680.55	604.87	539.53	478.37	415.03	355.87
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	306.87	256.19	227.56	169.98	129.74	107.56	78.42	59.72	49.14
45.0	337.58	283.29	252.20	252.20	154.62	118.19	85.29	63.99	51.93
90.0	246.96	200.32	160.74	119.54	86.77	68.77	54.94	46.50	40.14
135.0	298.61	248.95	248.95	230.86	126.91	91.93	67.84	54.76	46.22
180.0	338.51	287.00	250.35	241.53	192.11	121.86	87.66	65.10	52.39
225.0	323.15	269.23	240.79	176.61	136.75	117.82	74.20	61.90	49.65
270.0	414.15	355.68	324.13	257.77	248.95	248.95	147.01	108.12	77.96
315.0	357.72	328.72	276.52	226.59	185.29	143.85	108.77	77.12	57.31
360.0	306.87	256.19	227.56	169.98	129.74	107.56	78.42	59.72	49.14
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	41.95	36.19	31.32	27.42	24.04	21.21	18.84	16.84	15.08
45.0	44.04	38.05	33.09	28.96	25.34	23.53	19.86	17.77	16.61
90.0	34.80	30.21	26.36	23.25	20.60	18.33	16.33	14.62	13.18
135.0	39.77	34.38	29.93	26.13	23.02	20.37	18.19	16.19	14.52
180.0	44.59	38.24	33.04	28.72	25.15	22.13	19.63	17.49	16.38
225.0	41.81	35.96	30.95	26.87	23.53	20.79	18.42	16.43	14.76
270.0	58.47	47.61	40.28	34.71	30.02	26.31	23.16	20.60	18.38
315.0	46.77	39.63	34.29	29.84	26.03	22.92	20.32	18.19	16.24
360.0	41.95	36.19	31.32	27.42	24.04	21.21	18.84	16.84	15.08

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	13.60	12.25	11.09	10.16	9.19	8.77	7.75	7.24	6.87
45.0	14.29	13.46	12.06	11.00	10.07	9.19	8.40	7.70	7.15
90.0	11.93	10.81	9.79	8.96	8.21	7.56	6.96	6.54	6.13
135.0	13.64	11.88	10.72	10.21	8.96	8.49	7.80	7.24	6.77
180.0	14.01	12.71	11.93	10.44	9.84	9.00	8.21	7.61	7.05
225.0	13.27	12.02	10.90	9.93	9.10	8.31	7.66	7.15	6.77
270.0	16.47	15.17	13.69	12.44	11.37	10.35	9.51	8.77	8.17
315.0	14.66	13.83	12.06	11.00	10.39	9.61	8.77	8.12	7.52
360.0	13.60	12.25	11.09	10.16	9.19	8.77	7.75	7.24	6.87
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.26	6.08	5.66	5.38	5.20	5.01	4.78	4.59	4.41
45.0	6.68	6.22	5.85	5.52	5.29	5.06	4.78	4.64	4.50
90.0	5.85	5.48	5.34	5.10	4.83	4.64	4.45	4.27	4.08
135.0	6.31	5.94	5.61	5.38	5.10	4.87	4.73	4.59	4.32
180.0	6.50	6.08	5.75	5.48	5.15	4.97	4.78	4.64	4.41
225.0	6.26	5.89	5.61	5.34	5.06	4.83	4.69	4.55	4.32
270.0	7.56	7.05	6.59	6.26	5.94	5.66	5.34	5.15	4.97
315.0	7.01	6.59	6.17	5.80	5.57	5.34	5.10	4.87	4.73
360.0	6.26	6.08	5.66	5.38	5.20	5.01	4.78	4.59	4.41
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.27	4.04	3.81	3.67	3.48	3.29	3.06	2.92	2.83
45.0	4.18	4.04	3.94	3.57	3.43	3.20	3.06	2.92	2.69
90.0	3.85	3.67	3.48	3.25	3.02	2.92	2.78	2.55	2.37
135.0	4.13	3.94	3.71	3.57	3.34	3.11	2.97	2.83	2.60
180.0	4.22	4.08	3.99	3.62	3.48	3.34	3.11	3.02	2.83
225.0	4.08	3.99	3.76	3.53	3.43	3.20	2.97	2.83	2.64
270.0	4.78	4.55	4.32	4.18	4.04	3.81	3.67	3.43	3.16
315.0	4.55	4.32	4.08	3.90	3.71	3.62	3.34	3.16	2.97
360.0	4.27	4.04	3.81	3.67	3.48	3.29	3.06	2.92	2.83
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.64	2.51	2.37	2.27	2.18	2.09	2.00	1.95	1.95
45.0	2.51	2.37	2.27	2.04	1.90	1.76	1.67	1.53	1.35
90.0	2.18	2.09	2.00	1.86	1.62	1.58	1.44	1.30	1.21
135.0	2.51	2.32	2.18	2.09	2.00	1.76	1.62	1.53	1.44
180.0	2.64	2.60	2.46	2.32	2.27	2.23	2.13	2.00	2.09
225.0	2.51	2.32	2.13	2.04	1.90	1.81	1.67	1.48	1.35
270.0	3.02	2.83	2.64	2.41	2.27	2.13	2.00	1.76	1.62
315.0	2.78	2.64	2.46	2.27	2.13	2.00	1.86	1.67	1.53
360.0	2.64	2.51	2.37	2.27	2.18	2.09	2.00	1.95	1.95
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.13	2.60	2.88	2.97	3.16	3.16	2.97	2.37	1.86
45.0	1.25	1.16	0.97	0.88	0.84	0.65	0.51	0.46	0.37
90.0	1.07	0.93	0.88	0.74	0.60	0.56	0.46	0.28	0.23
135.0	1.30	1.16	1.11	0.93	0.79	0.70	0.60	0.46	0.37
180.0	2.41	2.69	2.88	3.02	3.25	3.39	3.48	2.83	1.90
225.0	1.25	1.11	1.02	0.84	0.74	0.65	0.56	0.46	0.32
270.0	1.48	1.39	1.16	1.07	0.97	0.84	0.70	0.56	0.51
315.0	1.39	1.35	1.16	1.07	0.97	0.79	0.70	0.60	0.51
360.0	2.13	2.60	2.88	2.97	3.16	3.16	2.97	2.37	1.86

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.67
45.0	0.23
90.0	0.23
135.0	0.37
180.0	1.39
225.0	0.28
270.0	0.32
315.0	0.46
360.0	1.67