
Nata

Client:

LumCAT: 1-09535-N

Luminaire: 92.70.246.00

Report No: 200728-B004

Test No: 200728-C004

LampCAT: SAMSUNG LC009D

Lamp flux(lm): 1393.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.5500

Current(A): 0.2860

Power (W): 9.8810

PF: 0.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 1120.23, Efficiency(%): 80.42% , Luminous Efficacy(lm/W): 113.37

Central intensity(cd): 5811.188, Maximum intensity(cd): 5811.188

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.0

[C90/270]Total=19.0

Field angle(10%Imax): [C0/180]Total=47.2

[C90/270]Total=47.2

Maximum s/h(1/2): C0_180=0.32 C90_270=0.32

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.42%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.077%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5811.188	0.000	0	.000%	.000%
1.0	5789.109	5.551	5.551	.398%	.495%
2.0	5705.859	16.499	22.049	1.184%	1.968%
3.0	5519.391	26.847	48.896	1.927%	4.365%
4.0	5253.398	36.060	84.956	2.589%	7.584%
5.0	4932.141	43.818	128.774	3.146%	11.495%
6.0	4461.680	49.367	178.141	3.544%	15.902%
7.0	3992.273	52.474	230.614	3.767%	20.586%
8.0	3555.844	54.020	284.635	3.878%	25.409%
9.0	3100.289	53.944	338.579	3.873%	30.224%
10.0	2712.094	52.600	391.179	3.776%	34.920%
11.0	2417.695	51.257	442.436	3.680%	39.495%
12.0	2156.766	50.005	492.442	3.590%	43.959%
13.0	1904.836	48.201	540.643	3.460%	48.262%
14.0	1719.984	46.397	587.04	3.331%	52.404%
15.0	1548.492	44.871	631.911	3.221%	56.409%
16.0	1373.027	42.808	674.72	3.073%	60.230%
17.0	1228.591	40.514	715.234	2.908%	63.847%
18.0	1102.479	38.434	753.668	2.759%	67.278%
19.0	994.985	36.492	790.16	2.620%	70.535%
20.0	894.776	34.588	824.748	2.483%	73.623%
21.0	801.056	32.563	857.311	2.338%	76.530%
22.0	707.006	30.305	887.616	2.176%	79.235%
23.0	631.420	28.084	915.7	2.016%	81.742%
24.0	546.420	25.752	941.452	1.849%	84.041%
25.0	463.669	22.967	964.419	1.649%	86.091%
26.0	396.120	20.295	984.714	1.457%	87.903%
27.0	331.214	17.794	1002.509	1.277%	89.491%
28.0	260.086	14.970	1017.479	1.075%	90.828%
29.0	205.896	12.191	1029.671	.875%	91.916%
30.0	161.072	9.908	1039.579	.711%	92.800%
31.0	117.563	7.754	1047.333	.557%	93.493%
32.0	88.538	5.905	1053.237	.424%	94.020%
33.0	68.857	4.637	1057.874	.333%	94.434%
34.0	55.941	3.777	1061.651	.271%	94.771%
35.0	48.790	3.253	1064.903	.233%	95.061%
36.0	44.627	2.974	1067.878	.214%	95.327%
37.0	40.465	2.775	1070.653	.199%	95.574%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	37.167	2.591	1073.244	.186%	95.806%
39.0	33.553	2.414	1075.658	.173%	96.021%
40.0	29.798	2.209	1077.868	.159%	96.218%
41.0	26.473	2.004	1079.871	.144%	96.397%
42.0	23.119	1.802	1081.673	.129%	96.558%
43.0	19.673	1.585	1083.258	.114%	96.700%
44.0	17.198	1.392	1084.65	.100%	96.824%
45.0	15.180	1.244	1085.894	.089%	96.935%
46.0	13.247	1.112	1087.006	.080%	97.034%
47.0	12.143	1.010	1088.016	.072%	97.124%
48.0	11.363	0.950	1088.966	.068%	97.209%
49.0	10.673	0.905	1089.871	.065%	97.290%
50.0	10.146	0.868	1090.739	.062%	97.367%
51.0	9.802	0.844	1091.583	.061%	97.443%
52.0	9.457	0.826	1092.409	.059%	97.516%
53.0	9.183	0.811	1093.22	.058%	97.589%
54.0	8.951	0.799	1094.019	.057%	97.660%
55.0	8.733	0.789	1094.809	.057%	97.731%
56.0	8.592	0.783	1095.592	.056%	97.801%
57.0	8.416	0.778	1096.369	.056%	97.870%
58.0	8.325	0.774	1097.144	.056%	97.939%
59.0	8.248	0.775	1097.918	.056%	98.008%
60.0	8.184	0.776	1098.695	.056%	98.078%
61.0	8.128	0.778	1099.473	.056%	98.147%
62.0	8.079	0.781	1100.254	.056%	98.217%
63.0	8.002	0.782	1101.036	.056%	98.287%
64.0	7.917	0.781	1101.817	.056%	98.356%
65.0	7.847	0.780	1102.597	.056%	98.426%
66.0	7.755	0.778	1103.376	.056%	98.495%
67.0	7.706	0.777	1104.153	.056%	98.565%
68.0	7.622	0.776	1104.93	.056%	98.634%
69.0	7.530	0.773	1105.703	.055%	98.703%
70.0	7.432	0.768	1106.471	.055%	98.772%
71.0	7.256	0.759	1107.23	.054%	98.840%
72.0	7.095	0.746	1107.977	.054%	98.906%
73.0	6.961	0.735	1108.712	.053%	98.972%
74.0	6.841	0.726	1109.437	.052%	99.037%
75.0	6.778	0.720	1110.157	.052%	99.101%

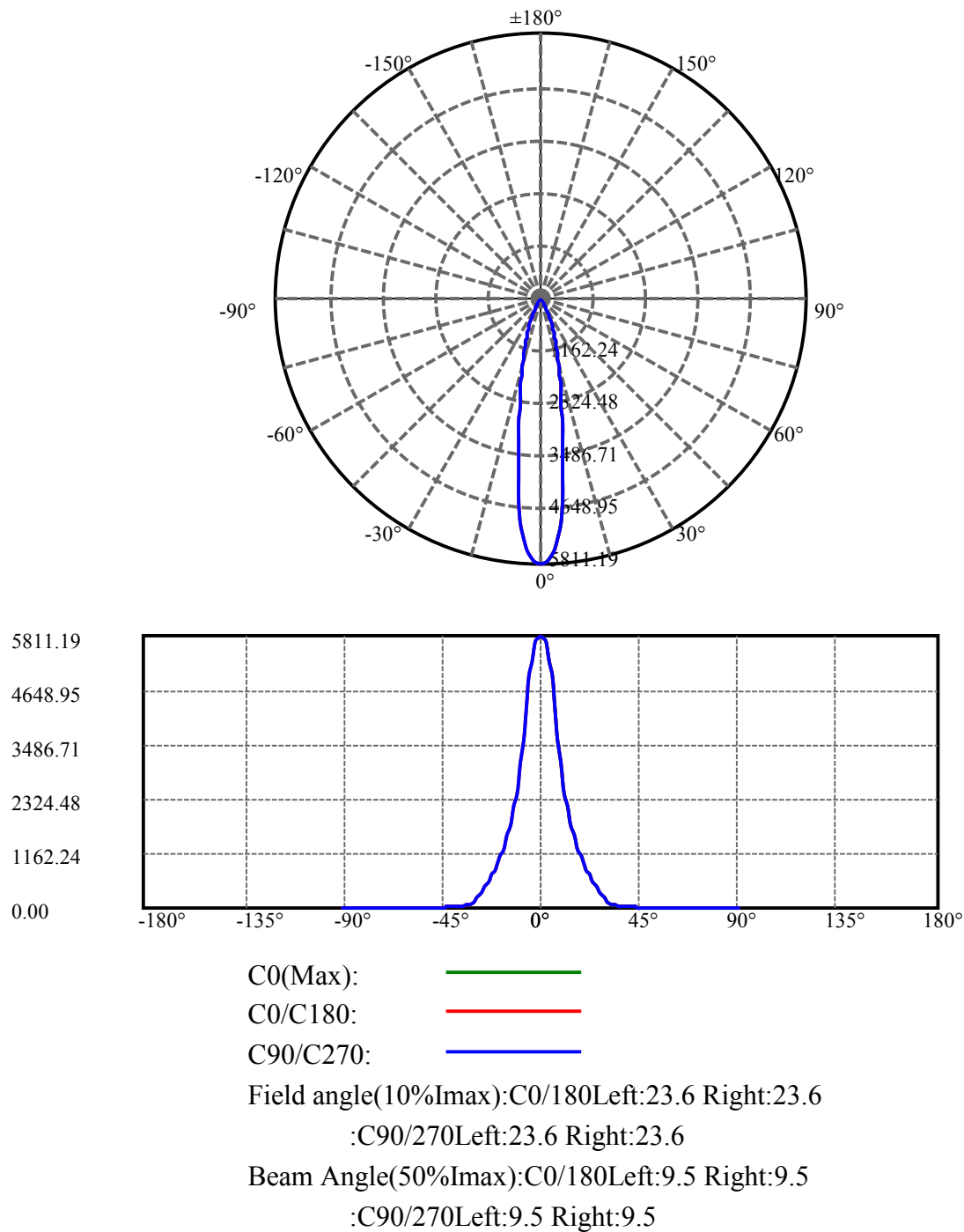
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.673	0.714	1110.871	.051%	99.165%
77.0	6.602	0.708	1111.579	.051%	99.228%
78.0	6.539	0.703	1112.282	.051%	99.290%
79.0	6.455	0.698	1112.98	.050%	99.353%
80.0	6.398	0.693	1113.673	.050%	99.415%
81.0	6.370	0.691	1114.364	.050%	99.476%
82.0	6.377	0.691	1115.055	.050%	99.538%
83.0	6.384	0.694	1115.749	.050%	99.600%
84.0	6.335	0.693	1116.442	.050%	99.662%
85.0	6.293	0.689	1117.131	.049%	99.723%
86.0	5.885	0.666	1117.797	.048%	99.783%
87.0	5.674	0.633	1118.429	.045%	99.839%
88.0	5.513	0.613	1119.042	.044%	99.894%
89.0	5.407	0.599	1119.64	.043%	99.947%
90.0	5.351	0.590	1120.23	.042%	100.000%

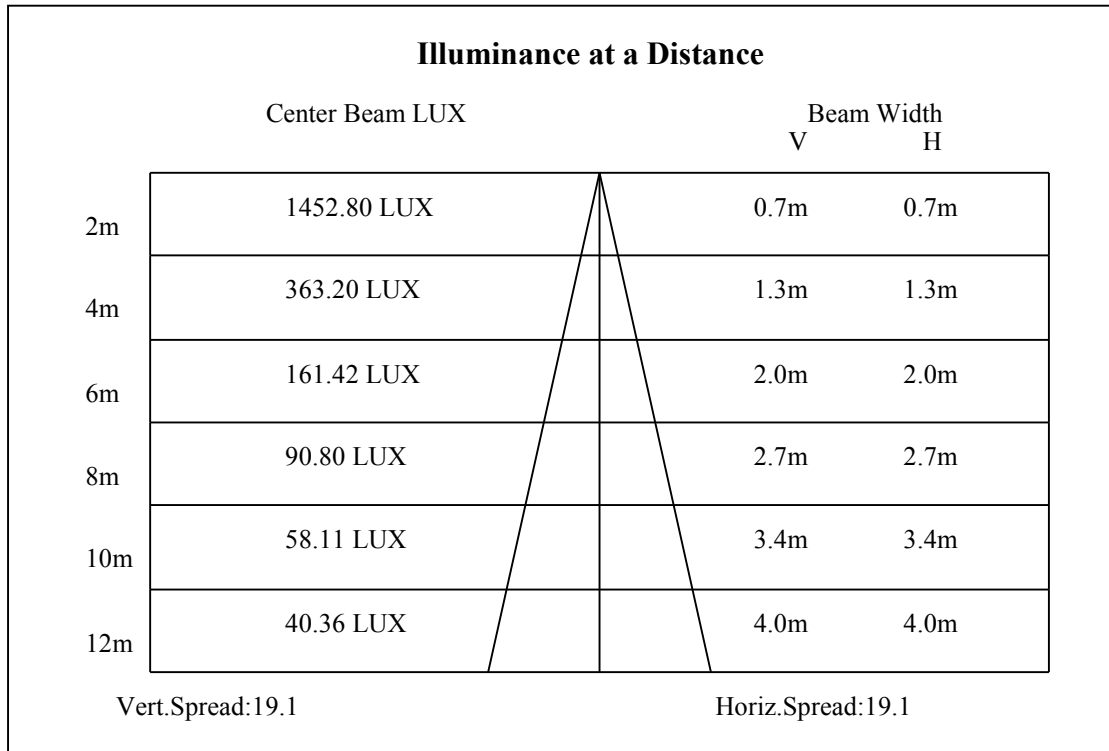
ZONAL LUMEN SUMMARY

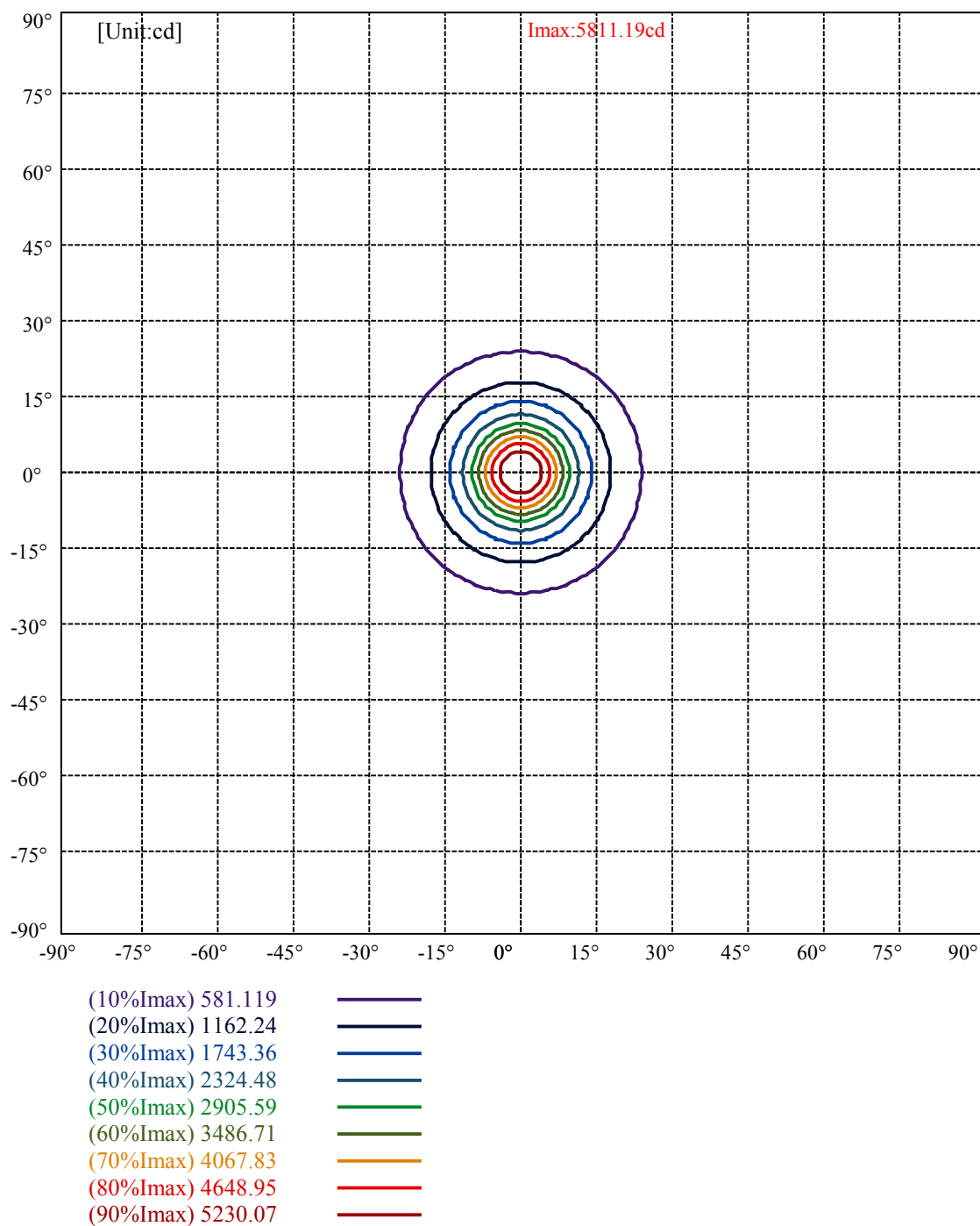
Zone	Lumens	%Lamp	%Fixt
0-30	1039.58	74.63%	92.80%
0-40	1077.87	77.38%	96.22%
0-60	1098.69	78.87%	98.08%
0-90	1119.64	80.38%	99.95%
0-120	1119.64	80.38%	99.95%
0-180	1120.23	80.42%	100.00%
60-90	21.72	1.56%	1.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-22.31	896.18	64.33%	80.00%

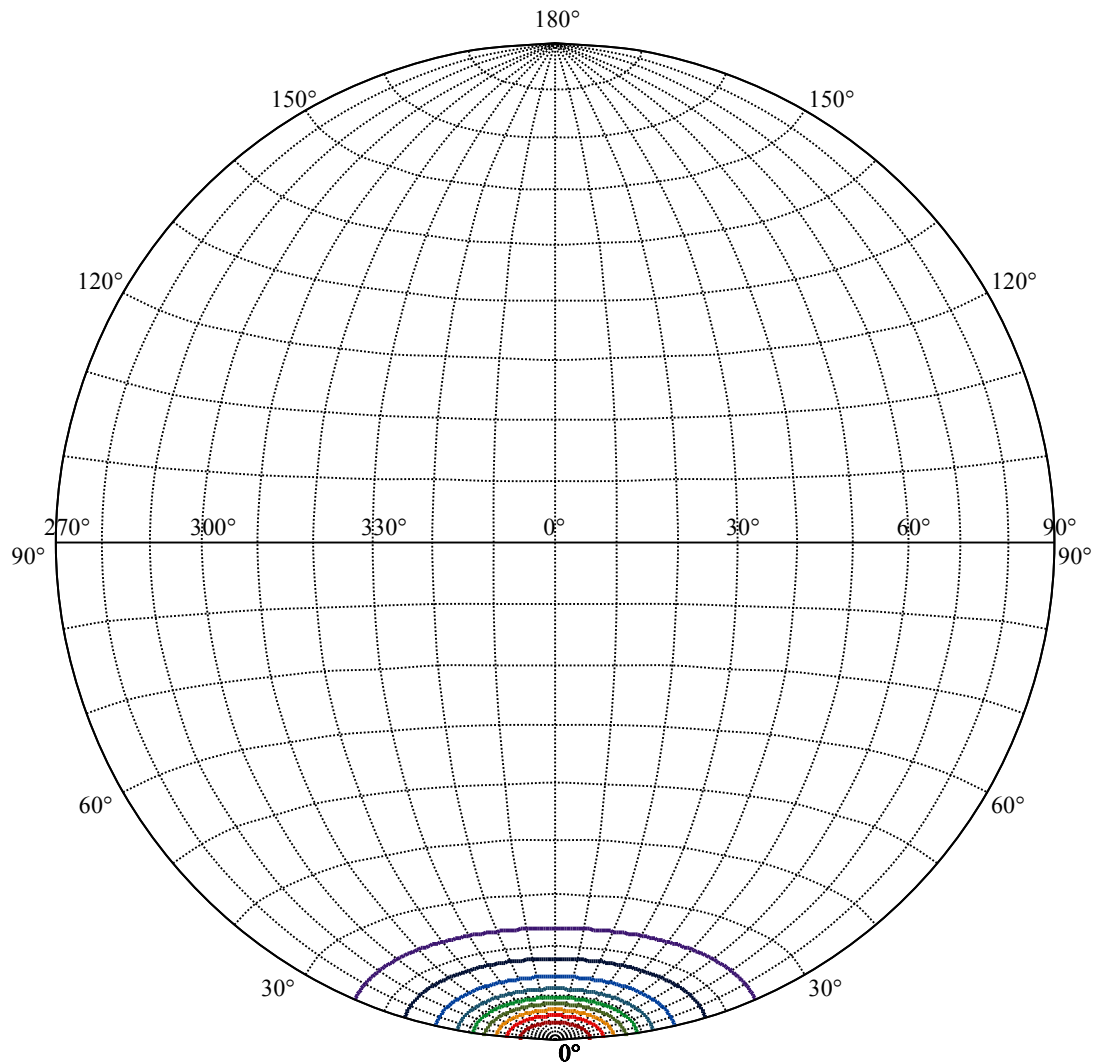
ZONAL LUMEN SUMMARY

0-10	391.18
10-20	433.57
20-30	214.83
30-40	38.29
40-50	12.87
50-60	7.96
60-70	7.78
70-80	7.20
80-90	5.97
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









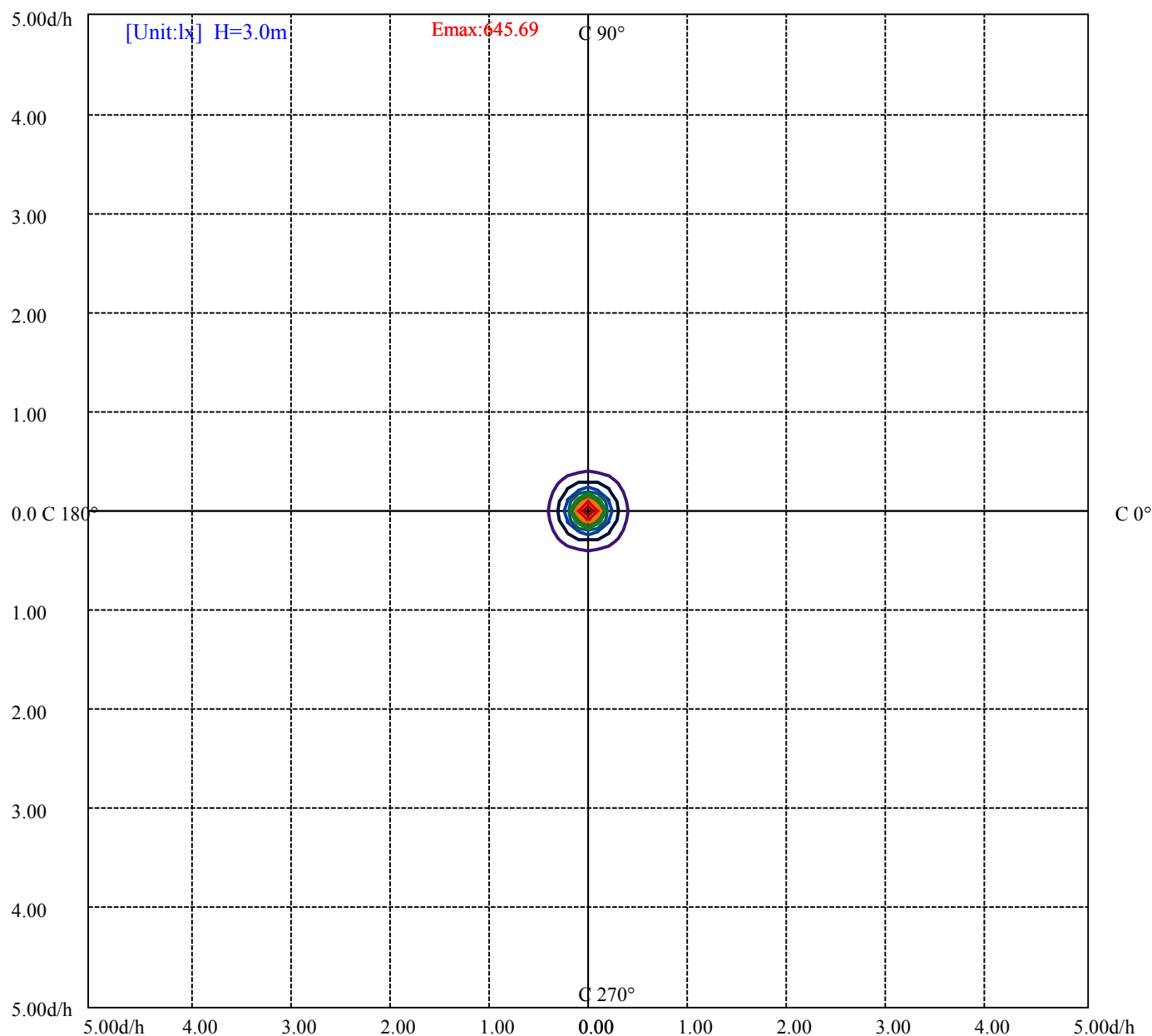
House

[Unit:cd]

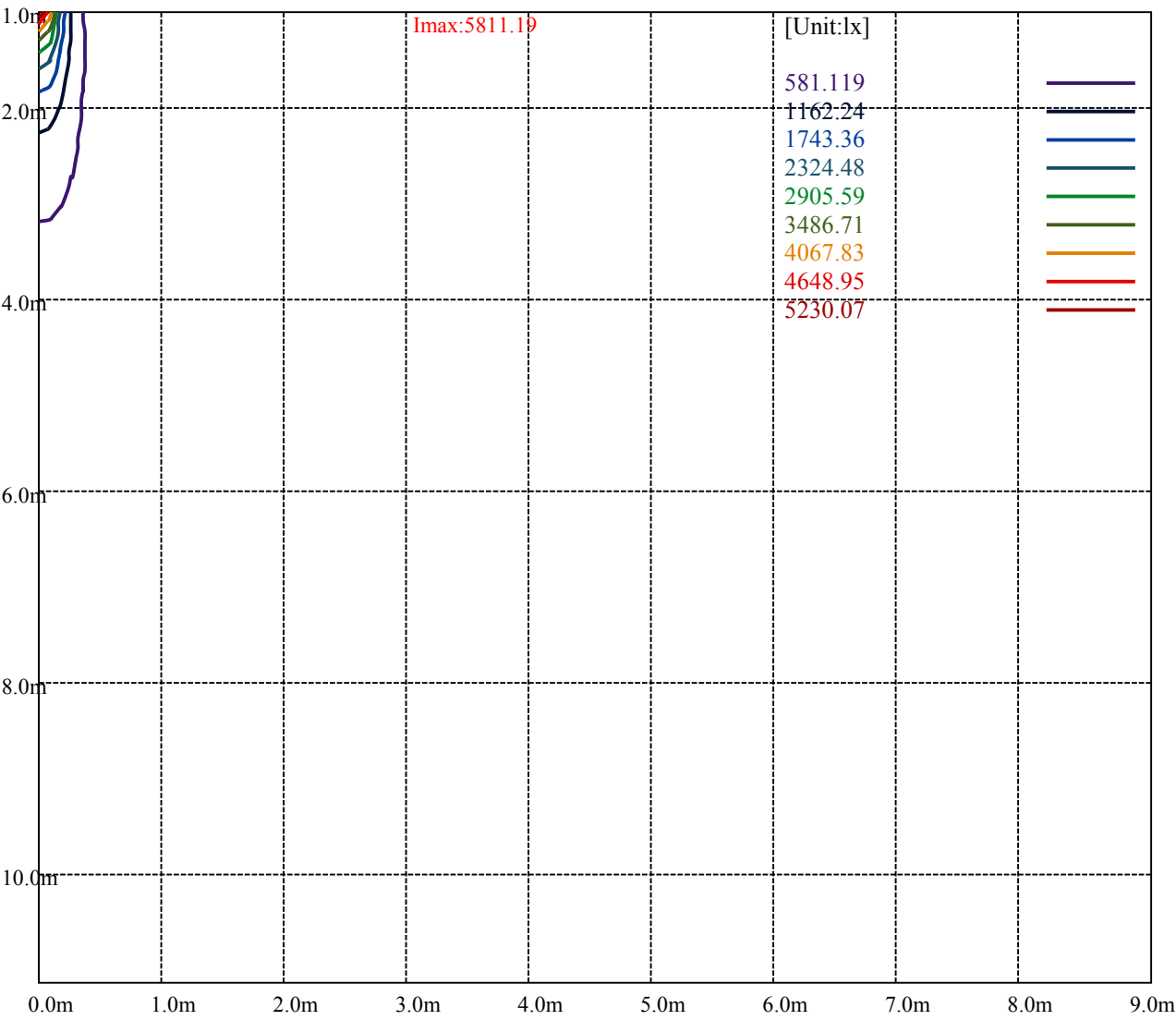
Road

Imax:5811.19	
(10%Imax) 581.119	
(20%Imax) 1162.24	
(30%Imax) 1743.36	
(40%Imax) 2324.48	
(50%Imax) 2905.59	
(60%Imax) 3486.71	
(70%Imax) 4067.83	
(80%Imax) 4648.95	
(90%Imax) 5230.07	





(10%Emax)	64.56866	—
(20%Emax)	129.1378	—
(30%Emax)	193.7067	—
(40%Emax)	258.2744	—
(50%Emax)	322.8434	—
(60%Emax)	387.4122	—
(70%Emax)	451.9811	—
(80%Emax)	516.55	—
(90%Emax)	581.1189	—



Luminance Table

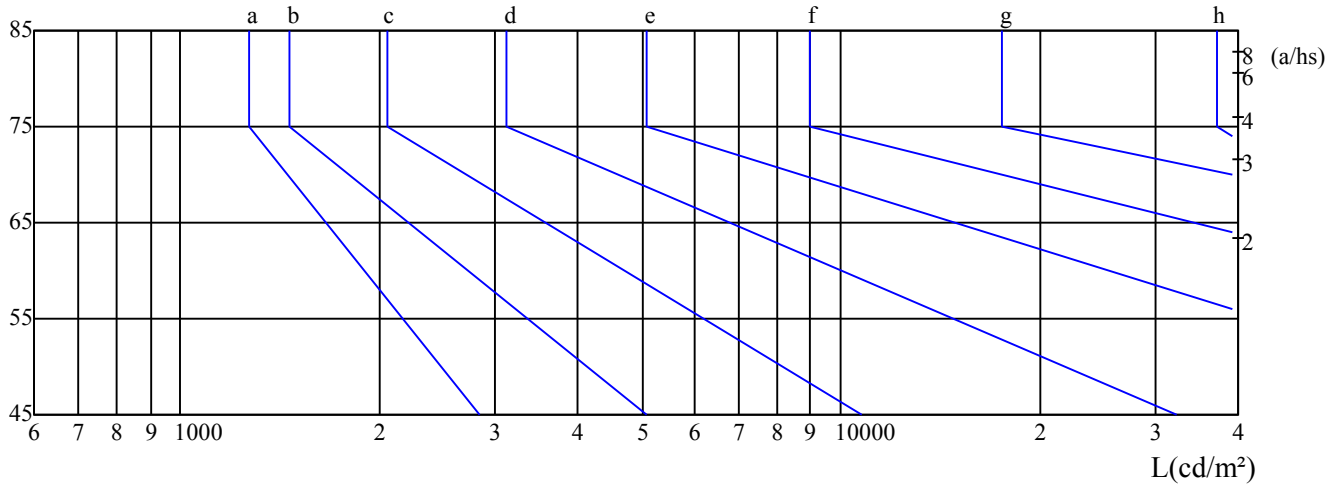
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

 $\gamma(^{\circ})$ 

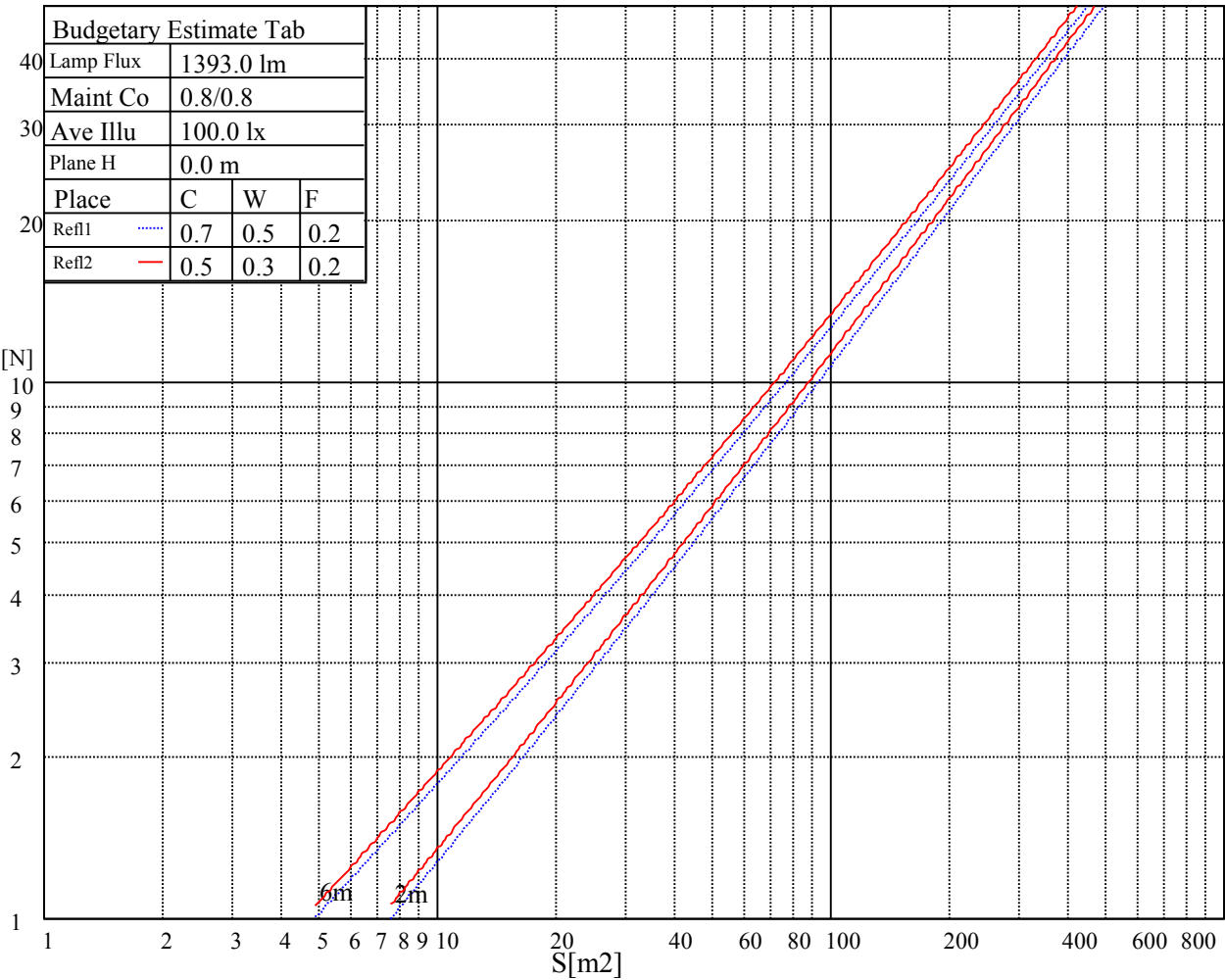
C0 ———

C45 ———

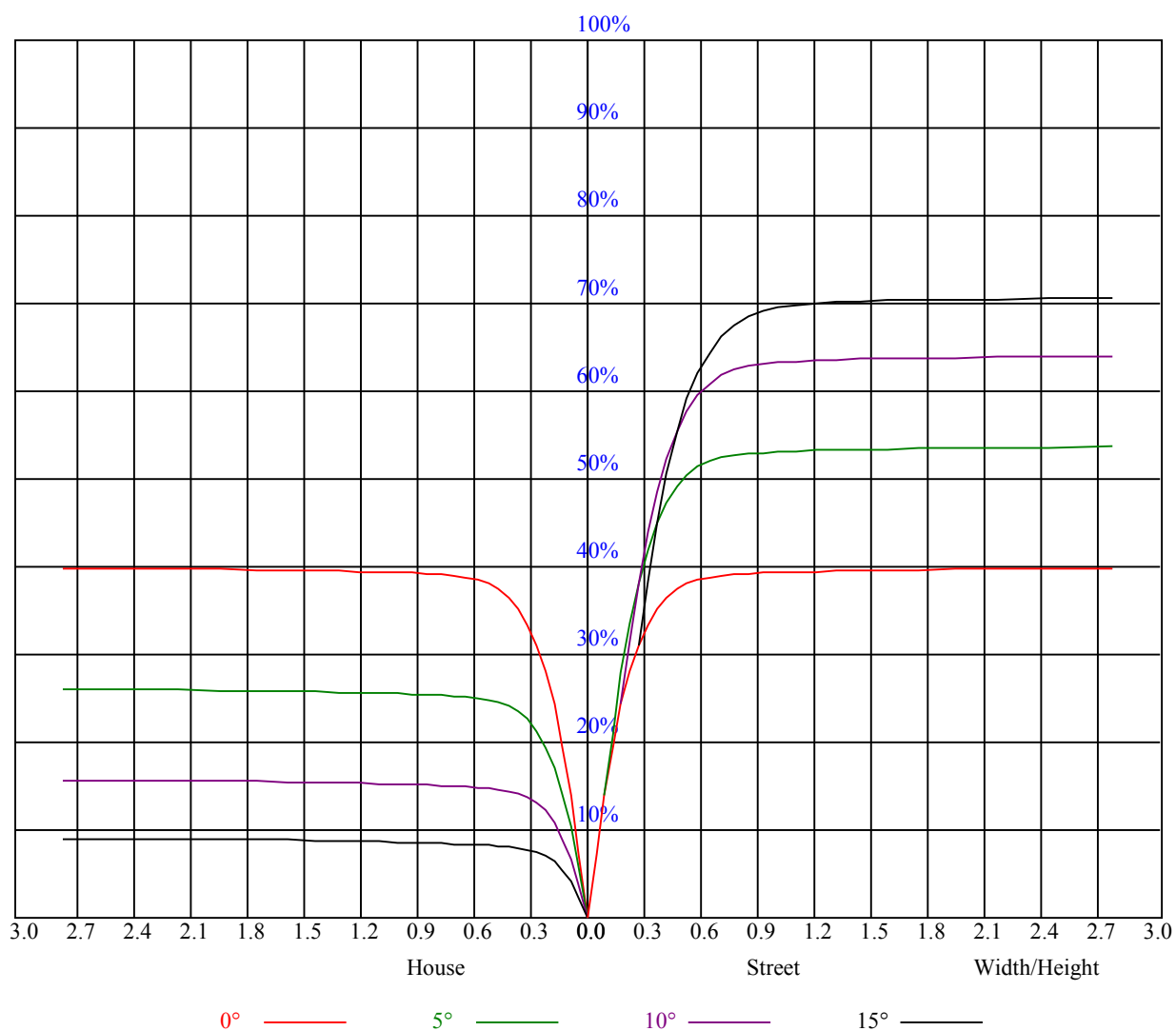
C90 ———

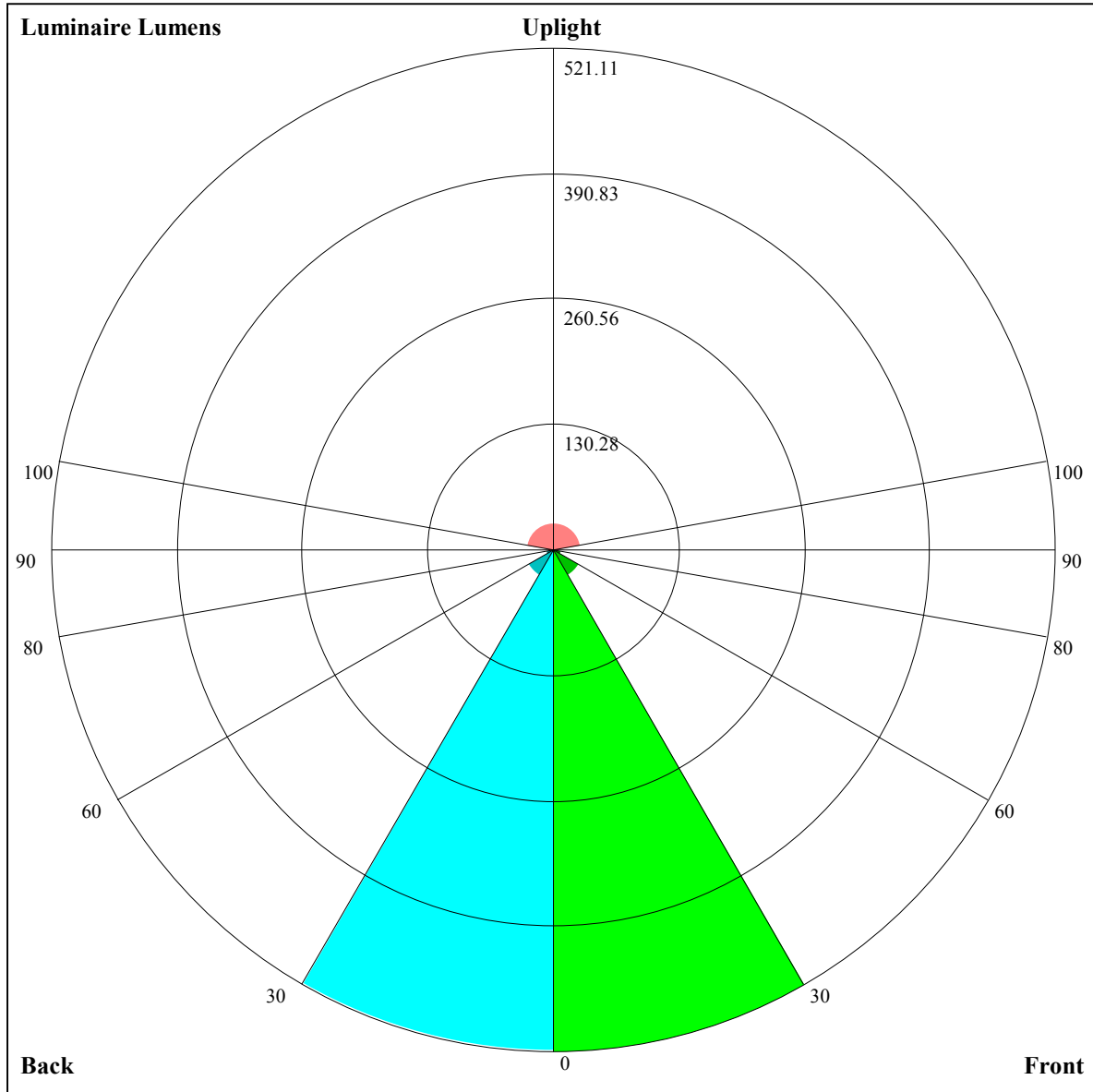
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	0.94	0.94	0.94	0.89	0.89	0.89	0.86	0.86	0.86	0.82	0.82	0.82	0.80
1	0.90	0.89	0.87	0.88	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	0.82	0.79	0.76	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.71
4	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.73	0.71	0.70	0.69
5	0.75	0.72	0.69	0.75	0.71	0.69	0.73	0.70	0.68	0.72	0.70	0.68	0.71	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
7	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.62
8	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
9	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.59	0.59
10	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57





Luminaire Lumens:

FL=521.11,FM=30.28,FH=7.49,FVH=3.35

BL=520.21,BM=30.5,BH=7.53,BVH=3.36

UL=5.84,UH=27.78

BUG Rating:B2-U2-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	5790.38	5814.00	5774.06	5592.38	5376.38	5070.94	4596.19	4168.13	3717.00
45.0	5820.75	5802.75	5639.63	5410.13	5086.69	4722.19	4229.44	3692.25	3266.44
90.0	5820.19	5724.00	5568.19	5261.06	4897.69	4490.44	3900.94	3440.81	3030.75
135.0	5813.44	5791.50	5686.88	5469.19	5187.94	4834.13	4300.88	3834.56	3392.44
180.0	5790.38	5758.88	5631.19	5442.19	5139.56	4789.13	4322.25	3796.88	3353.06
225.0	5820.75	5802.19	5790.38	5641.31	5412.38	5155.88	4735.13	4320.00	3868.88
270.0	5820.19	5812.31	5798.81	5726.25	5553.00	5336.44	4971.94	4535.44	4100.06
315.0	5813.44	5807.25	5757.75	5612.63	5373.56	5058.00	4636.69	4150.13	3718.13
360.0	5790.38	5814.00	5774.06	5592.38	5376.38	5070.94	4596.19	4168.13	3717.00
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3193.88	2837.25	2525.06	2233.69	1983.94	1788.19	1590.75	1434.38	1280.25
45.0	2844.00	2496.94	2229.19	2007.00	1768.50	1599.19	1442.81	1285.88	1146.38
90.0	2683.13	2324.81	2091.38	1890.00	1670.06	1509.19	1362.94	1110.09	1082.70
135.0	2912.63	2588.06	2309.63	2077.31	1830.38	1658.25	1497.94	1337.06	1199.81
180.0	2958.19	2549.25	2281.50	2054.25	1815.19	1644.19	1487.81	1331.44	1117.97
225.0	3315.94	2934.56	2605.50	2266.31	2040.75	1844.44	1629.00	1491.75	1329.75
270.0	3601.69	3140.44	2788.31	2480.06	2163.94	1944.00	1776.38	1563.75	1399.50
315.0	3292.88	2825.44	2511.00	2245.50	1965.94	1772.44	1600.31	1429.88	1272.38
360.0	3193.88	2837.25	2525.06	2233.69	1983.94	1788.19	1590.75	1434.38	1280.25
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1145.81	1037.81	928.69	825.75	743.63	664.88	569.81	493.88	421.88
45.0	1031.06	906.19	804.94	722.81	634.50	565.88	480.94	405.00	342.00
90.0	974.19	862.99	774.90	683.83	595.46	519.41	440.16	365.34	303.13
135.0	1081.13	957.38	856.69	772.88	680.06	600.75	515.81	433.13	367.31
180.0	1076.51	949.84	868.11	772.99	680.18	612.96	529.26	440.61	382.22
225.0	1115.04	1073.48	969.92	863.04	766.91	688.67	603.73	520.14	447.64
270.0	1286.44	1141.31	1022.63	938.25	822.38	741.38	663.75	564.75	487.69
315.0	1109.64	1030.89	932.34	828.90	732.94	657.45	567.90	486.51	417.09
360.0	1145.81	1037.81	928.69	825.75	743.63	664.88	569.81	493.88	421.88
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	344.81	289.69	218.25	178.31	125.44	94.84	72.90	58.11	50.18
45.0	288.56	212.40	166.61	128.25	90.56	70.93	56.64	48.77	43.43
90.0	246.15	184.78	142.59	107.27	77.23	59.46	51.53	46.63	42.41
135.0	309.38	253.24	180.84	141.47	100.86	76.50	59.01	50.29	45.23
180.0	317.76	237.43	194.34	150.13	109.35	78.81	61.71	51.69	46.35
225.0	379.52	299.76	242.27	192.83	145.07	107.04	81.79	62.61	53.21
270.0	414.56	330.19	284.06	214.82	160.14	123.02	92.98	69.86	57.43
315.0	348.98	273.21	218.19	175.50	131.85	97.71	74.31	59.57	52.09
360.0	344.81	289.69	218.25	178.31	125.44	94.84	72.90	58.11	50.18
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	46.13	41.12	37.63	34.03	29.93	26.49	23.34	19.69	17.27
45.0	39.66	36.06	33.30	29.81	26.21	23.23	19.80	17.04	14.96
90.0	39.15	35.89	32.79	29.31	25.71	22.39	19.63	16.59	14.57
135.0	41.40	37.80	34.93	31.67	28.07	24.86	21.38	18.51	16.26
180.0	42.75	38.98	36.06	32.57	28.97	25.76	22.61	19.13	16.82
225.0	48.38	43.88	40.22	36.56	32.85	29.48	26.04	21.94	19.07
270.0	52.14	47.14	43.14	39.26	35.27	31.78	27.79	23.96	20.81
315.0	47.42	42.86	39.26	35.21	31.39	27.79	24.36	20.53	17.83
360.0	46.13	41.12	37.63	34.03	29.93	26.49	23.34	19.69	17.27

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	15.24	13.28	12.09	11.31	10.58	10.01	9.68	9.28	9.06		
45.0	13.33	11.81	11.03	10.46	9.96	9.56	9.28	9.06	8.72		
90.0	13.11	11.81	11.14	10.58	10.07	9.68	9.39	9.11	8.89		
135.0	14.34	12.77	11.87	11.19	10.63	10.13	9.84	9.51	9.23		
180.0	14.85	13.11	12.09	11.42	10.86	10.24	9.90	9.56	9.34		
225.0	16.59	14.18	12.83	11.87	11.03	10.46	10.07	9.68	9.39		
270.0	18.23	15.30	13.67	12.49	11.48	10.80	10.35	9.90	9.56		
315.0	15.75	13.73	12.43	11.59	10.80	10.29	9.90	9.56	9.28		
360.0	15.24	13.28	12.09	11.31	10.58	10.01	9.68	9.28	9.06		
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	8.83	8.61	8.49	8.33	8.21	8.10	8.10	8.04	8.04		
45.0	8.55	8.38	8.27	8.10	8.10	8.10	7.99	7.93	7.88		
90.0	8.72	8.49	8.38	8.33	8.27	8.16	8.10	8.04	7.99		
135.0	9.00	8.83	8.66	8.49	8.38	8.38	8.27	8.21	8.16		
180.0	9.06	8.83	8.66	8.49	8.44	8.33	8.27	8.27	8.21		
225.0	9.11	8.89	8.72	8.49	8.38	8.33	8.27	8.16	8.10		
270.0	9.28	9.06	8.89	8.66	8.49	8.38	8.33	8.27	8.21		
315.0	9.06	8.78	8.66	8.44	8.33	8.21	8.16	8.10	8.04		
360.0	8.83	8.61	8.49	8.33	8.21	8.10	8.10	8.04	8.04		
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	7.93	7.88	7.82	7.76	7.71	7.65	7.54	7.48	7.31		
45.0	7.82	7.76	7.71	7.59	7.59	7.54	7.43	7.31	7.09		
90.0	7.93	7.82	7.76	7.71	7.65	7.59	7.48	7.31	7.14		
135.0	8.04	7.99	7.93	7.82	7.76	7.65	7.59	7.48	7.26		
180.0	8.10	8.04	7.88	7.82	7.76	7.65	7.54	7.43	7.26		
225.0	8.04	7.93	7.88	7.76	7.71	7.59	7.48	7.43	7.20		
270.0	8.16	8.04	7.99	7.82	7.76	7.71	7.65	7.59	7.48		
315.0	7.99	7.88	7.82	7.76	7.71	7.59	7.54	7.43	7.31		
360.0	7.93	7.88	7.82	7.76	7.71	7.65	7.54	7.48	7.31		
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	7.14	6.98	6.86	6.81	6.69	6.64	6.53	6.47	6.36		
45.0	6.92	6.81	6.69	6.64	6.53	6.47	6.36	6.24	6.19		
90.0	7.03	6.92	6.86	6.81	6.69	6.64	6.58	6.58	6.64		
135.0	7.14	7.03	6.86	6.81	6.69	6.64	6.58	6.41	6.36		
180.0	7.03	6.92	6.81	6.75	6.64	6.53	6.47	6.36	6.30		
225.0	7.09	6.92	6.81	6.69	6.58	6.53	6.47	6.36	6.30		
270.0	7.31	7.14	7.03	6.98	6.86	6.81	6.81	6.81	6.75		
315.0	7.09	6.98	6.81	6.75	6.69	6.58	6.53	6.41	6.30		
360.0	7.14	6.98	6.86	6.81	6.69	6.64	6.53	6.47	6.36		
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	6.24	6.19	6.13	6.02	5.91	5.85	5.74	5.57	5.46		
45.0	6.08	5.96	5.91	5.79	5.68	5.63	5.51	5.34	5.29		
90.0	7.03	7.71	8.10	8.38	8.44	5.63	5.51	5.34	5.34		
135.0	6.24	6.13	6.08	5.96	5.91	5.79	5.68	5.51	5.40		
180.0	6.24	6.13	6.08	6.02	5.91	5.85	5.68	5.57	5.40		
225.0	6.19	6.08	6.08	6.02	5.91	5.85	5.74	5.57	5.40		
270.0	6.69	6.64	6.58	6.47	6.64	6.64	5.79	5.63	5.51		
315.0	6.24	6.19	6.13	6.02	5.96	5.85	5.74	5.57	5.46		
360.0	6.24	6.19	6.13	6.02	5.91	5.85	5.74	5.57	5.46		

Intensity data(cd)

Appendix Page: 20 Total:20

C/γ(°)	90.0
0.0	5.40
45.0	5.29
90.0	5.29
135.0	5.40
180.0	5.40
225.0	5.29
270.0	5.34
315.0	5.40
360.0	5.40