

IES Indoor Report
Photometric Filename:L1021.ies

Description Information(From Photometric File)

Photometric File: L1021.ies
IES Format: IESNA:LM-63-1995
[TEST]
[DATE] 2016/11/18
[MANUFAC] DETA
[LUMCAT] 1
[LUMINAIRE]
[LAMPCAT] 88 2835LED
[LAMP] 88 2835LED
[BALLASTCAT]
[BALLAST]
[OTHER] 1
[More] Temprature:25 Humidity:40

Character

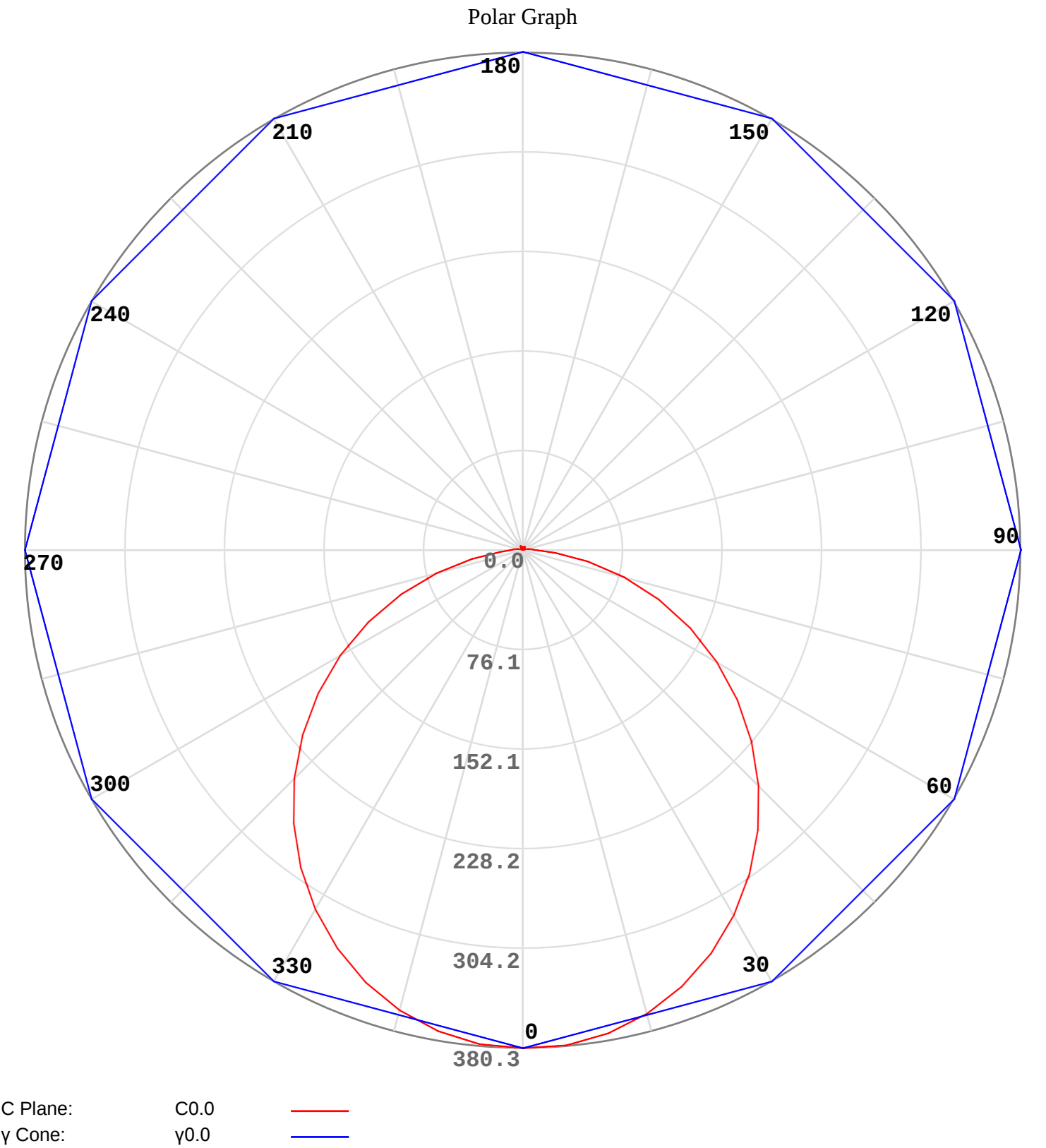
Lamp Power(w) :	13.2
Total Rated Lamp Lumens(lm) :	1594.00
Luminair Lumens(lm) :	1102.36
Total Luminair Efficiency:	69.16%
Luminaire Efficacy Rating(LER) :	83.51
Maximum Intencity(cd) :	380.30
Max Cd Angle(deg) :	C=0.0 γ=0.0
Downward Lumens(lm) :	1086.00
Downward Total Efficiency:	98.52%
Spacing Criteria:	C0_180=0.63 C90_270=0.63
CIE Type:	Semi-Direct

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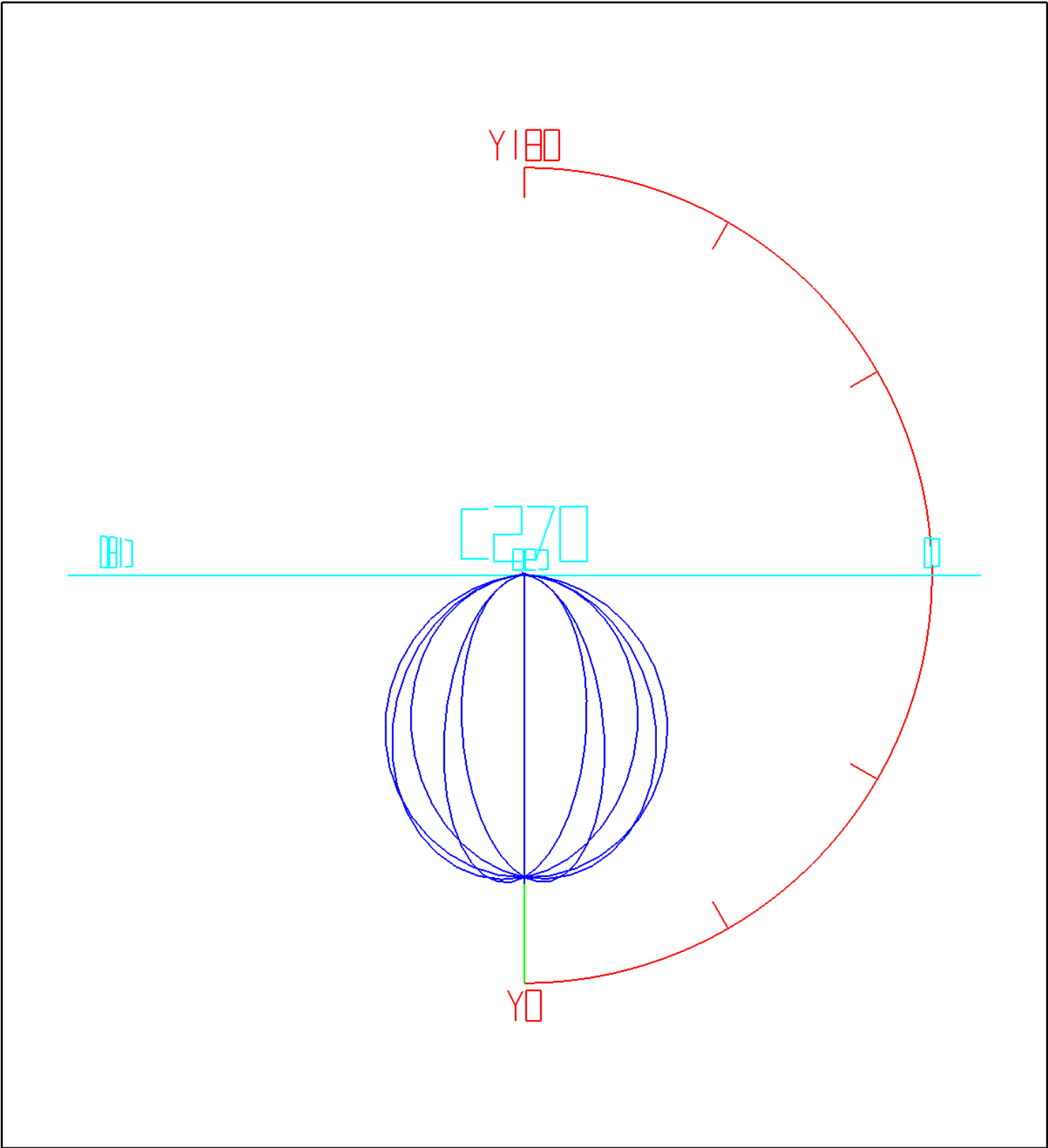
Candela Tabulation

	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0	C360.0
<u>γ 0.0</u>	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30	380.30
<u>γ 5.0</u>	379.61	378.58	378.60	378.15	378.61	378.35	378.71	378.72	378.16	378.08	377.48	377.92	379.61
<u>γ 10.0</u>	374.72	373.18	373.51	372.99	373.85	373.10	372.93	373.41	372.22	372.71	371.52	372.48	374.72
<u>γ 15.0</u>	366.36	364.30	364.99	364.26	365.55	364.45	363.73	364.58	363.15	363.90	362.24	363.61	366.36
<u>γ 20.0</u>	354.65	352.22	353.18	352.11	353.88	352.46	351.19	352.40	350.77	351.77	349.68	351.44	354.65
<u>γ 25.0</u>	339.80	336.95	338.08	336.89	338.98	337.33	335.46	337.25	335.32	336.55	334.12	336.17	339.80
<u>γ 30.0</u>	322.02	318.84	320.36	318.81	321.34	319.25	316.90	319.13	317.09	318.53	315.79	318.04	322.02
<u>γ 35.0</u>	301.66	298.19	299.90	298.09	300.94	298.62	295.81	298.54	296.28	298.58	294.91	297.46	301.66
<u>γ 40.0</u>	279.01	275.29	277.01	275.08	278.24	275.52	272.33	275.52	273.07	275.18	271.80	274.64	279.01
<u>γ 45.0</u>	254.29	250.21	252.09	249.94	253.36	250.40	246.94	250.41	248.10	250.23	246.72	249.65	254.29
<u>γ 50.0</u>	227.85	223.46	225.48	222.99	226.67	223.55	219.64	223.54	221.12	223.50	219.94	223.13	227.85
<u>γ 55.0</u>	199.89	195.24	197.31	194.67	198.43	195.01	190.97	195.05	192.61	195.25	191.57	194.98	199.89
<u>γ 60.0</u>	170.73	165.93	168.02	165.20	168.95	165.34	161.07	165.31	163.02	165.71	162.08	165.70	170.73
<u>γ 65.0</u>	140.83	135.99	138.01	134.93	138.65	134.84	130.25	134.68	132.46	135.29	131.77	135.61	140.83
<u>γ 70.0</u>	110.33	105.45	107.50	104.12	107.74	103.73	98.95	103.42	101.34	104.50	101.00	104.99	110.33
<u>γ 75.0</u>	79.74	74.98	77.00	73.46	76.99	72.83	68.15	72.56	70.58	73.78	70.50	74.46	79.74
<u>γ 80.0</u>	50.30	45.93	47.73	44.48	47.61	43.80	39.60	43.66	41.99	44.72	41.96	45.46	50.30
<u>γ 85.0</u>	24.81	21.48	22.81	20.36	22.79	20.24	17.45	20.28	19.10	20.85	18.65	21.15	24.81
<u>γ 90.0</u>	9.15	8.10	8.63	8.38	9.44	9.39	9.36	10.00	9.55	9.39	8.51	8.45	9.15
<u>γ 95.0</u>	6.06	5.71	6.04	6.05	6.64	6.73	6.51	7.01	6.59	6.51	5.89	5.87	6.06
<u>γ 100.0</u>	4.08	3.79	3.99	4.08	4.41	4.37	4.10	4.43	4.16	4.11	3.77	3.87	4.08
<u>γ 105.0</u>	2.32	2.18	2.39	2.47	2.56	2.50	2.14	2.42	2.11	2.22	2.01	2.17	2.32
<u>γ 110.0</u>	1.07	1.06	1.16	1.27	1.26	1.12	0.90	1.14	0.93	1.05	0.92	0.99	1.07
<u>γ 115.0</u>	0.52	0.56	0.56	0.74	0.51	0.70	0.71	0.77	0.74	0.85	0.72	0.58	0.52
<u>γ 120.0</u>	0.57	0.70	0.50	0.86	0.62	0.88	0.82	0.91	0.92	1.14	0.93	0.79	0.57
<u>γ 125.0</u>	0.72	0.80	0.78	0.96	0.84	1.04	1.15	1.03	1.31	1.41	1.34	0.99	0

2D Light Intensity Distribution Curve



3D Light Intensity Distribution Curve

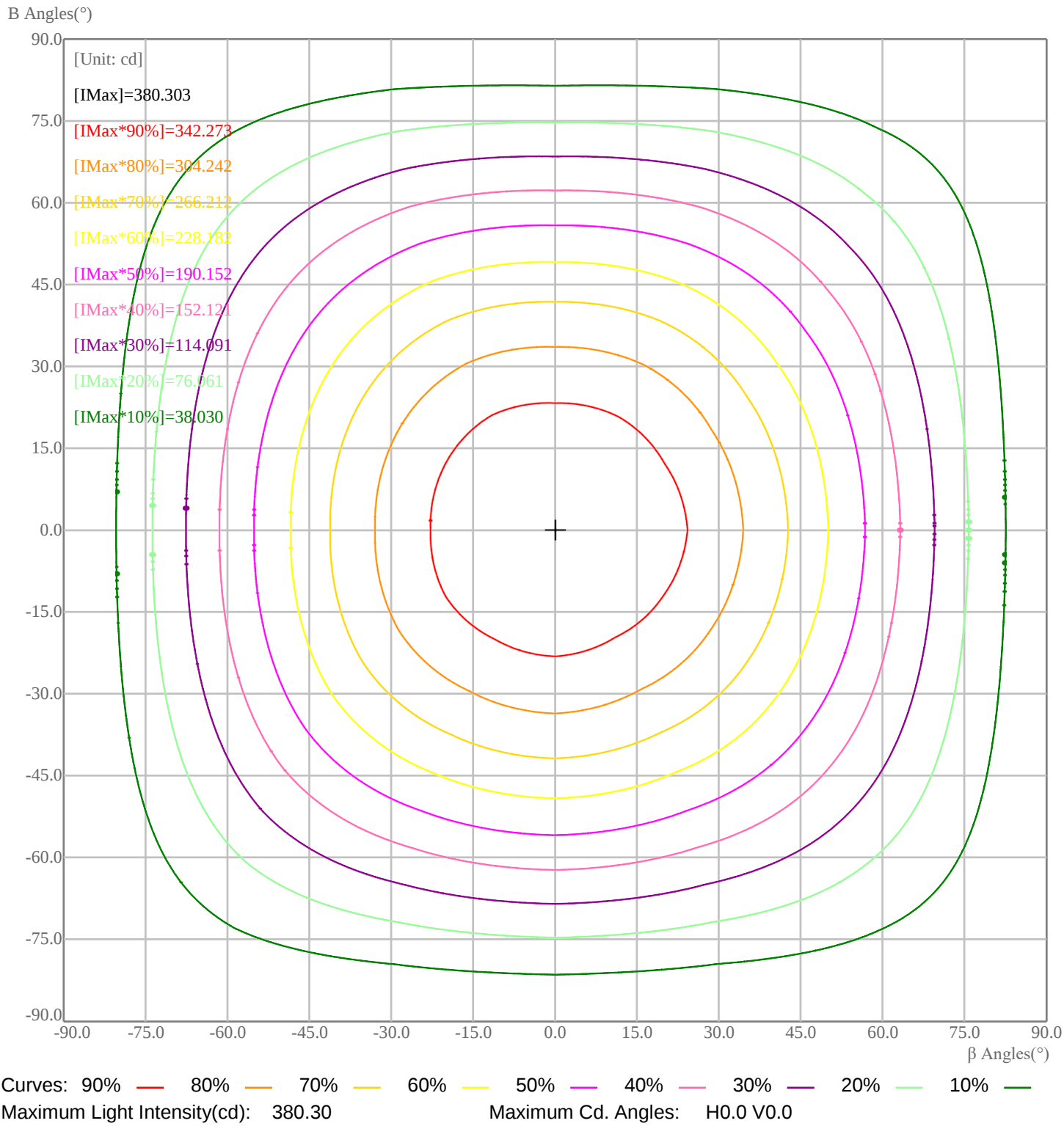


Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

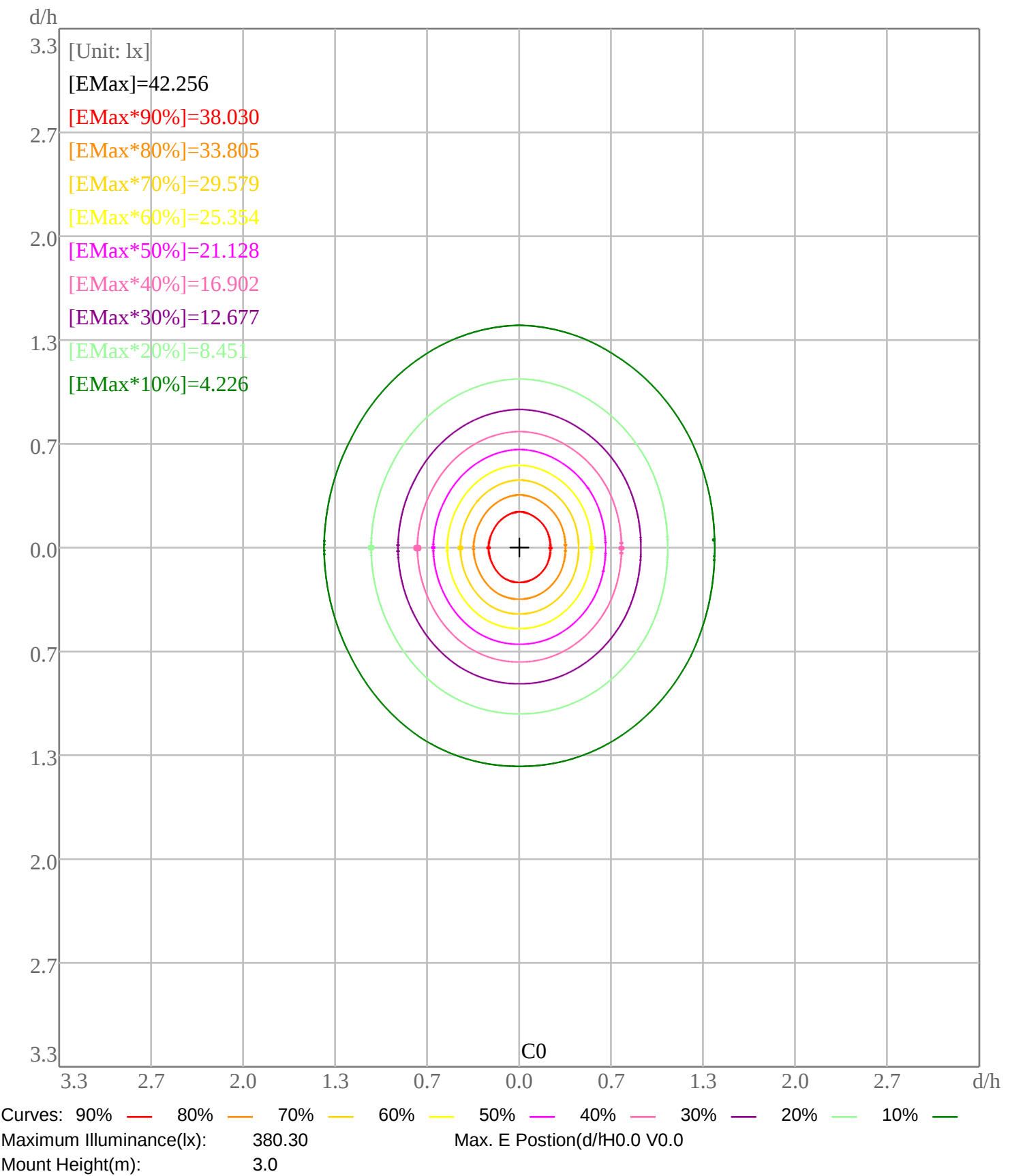
Zonal Liumens Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	9.07	9.07	0.82	0.82
5.0-10.0	26.88	35.95	2.44	3.26
10.0-15.0	43.74	79.69	3.97	7.23
15.0-20.0	59.04	138.73	5.36	12.58
20.0-25.0	72.27	211.00	6.56	19.14
25.0-30.0	82.99	293.99	7.53	26.67
30.0-35.0	90.87	384.86	8.24	34.91
35.0-40.0	95.68	480.54	8.68	43.59
40.0-45.0	97.29	577.82	8.83	52.42
45.0-50.0	95.70	673.52	8.68	61.10
50.0-55.0	90.99	764.51	8.25	69.35
55.0-60.0	83.37	847.88	7.56	76.92
60.0-65.0	73.14	921.02	6.63	83.55
65.0-70.0	60.69	981.71	5.51	89.06
70.0-75.0	46.57	1028.29	4.22	93.28
75.0-80.0	31.71	1060.00	2.88	96.16
80.0-85.0	17.83	1077.83	1.62	97.77
85.0-90.0	8.18	1086.00	0.74	98.52
90.0-95.0	4.20	1090.20	0.38	98.90
95.0-100.0	2.83	1093.02	0.26	99.15
100.0-105.0	1.71	1094.73	0.15	99.31
105.0-110.0	0.88	1095.61	0.08	99.39
110.0-115.0	0.44	1096.05	0.04	99.43
115.0-120.0	0.36	1096.41	0.03	99.46
120.0-125.0	0.42	1096.83	0.04	99.50
125.0-130.0	0.52	1097.35	0.05	99.55
130.0-135.0	0.61	1097.96	0.06	99.60
135.0-140.0	0.70	1098.65	0.06	99.66
140.0-145.0	0.82	1099.47	0.07	99.74
145.0-150.0	0.86	1100.33	0.08	99.82
150.0-155.0	0.72	1101.05	0.06	99.88
155.0-160.0	0.51	1101.56	0.05	99.93
160.0-165.0	0.36	1101.92	0.03	99.96
165.0-170.0	0.24	1102.16	0.02	99.98
170.0-175.0	0.15	1102.30	0.01	100.00
175.0-180.0	0.05	1102.36	0.00	100.00

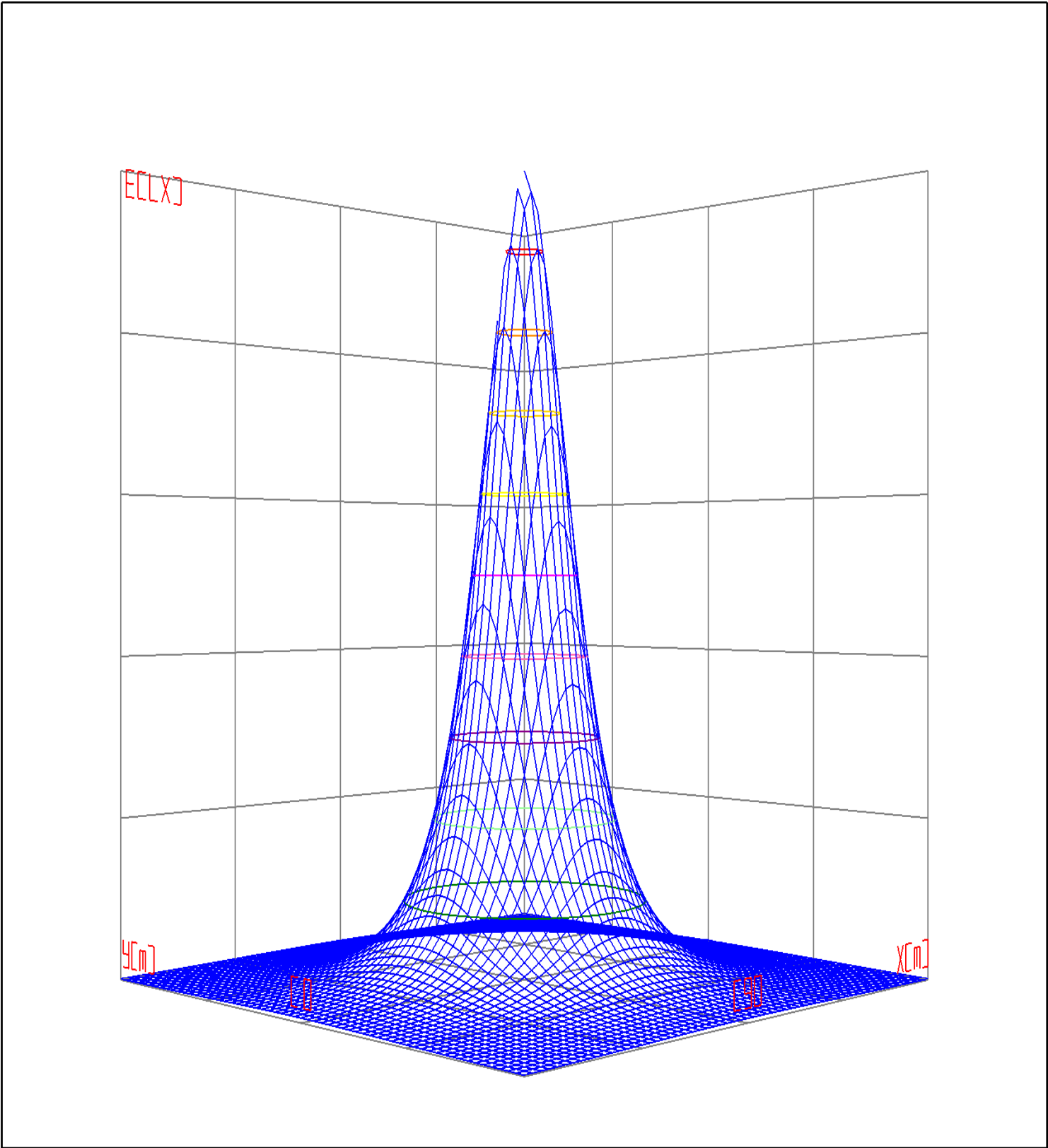
Rectangle ISO Light Intensity Curve



Plane ISO-Illuminance Curve

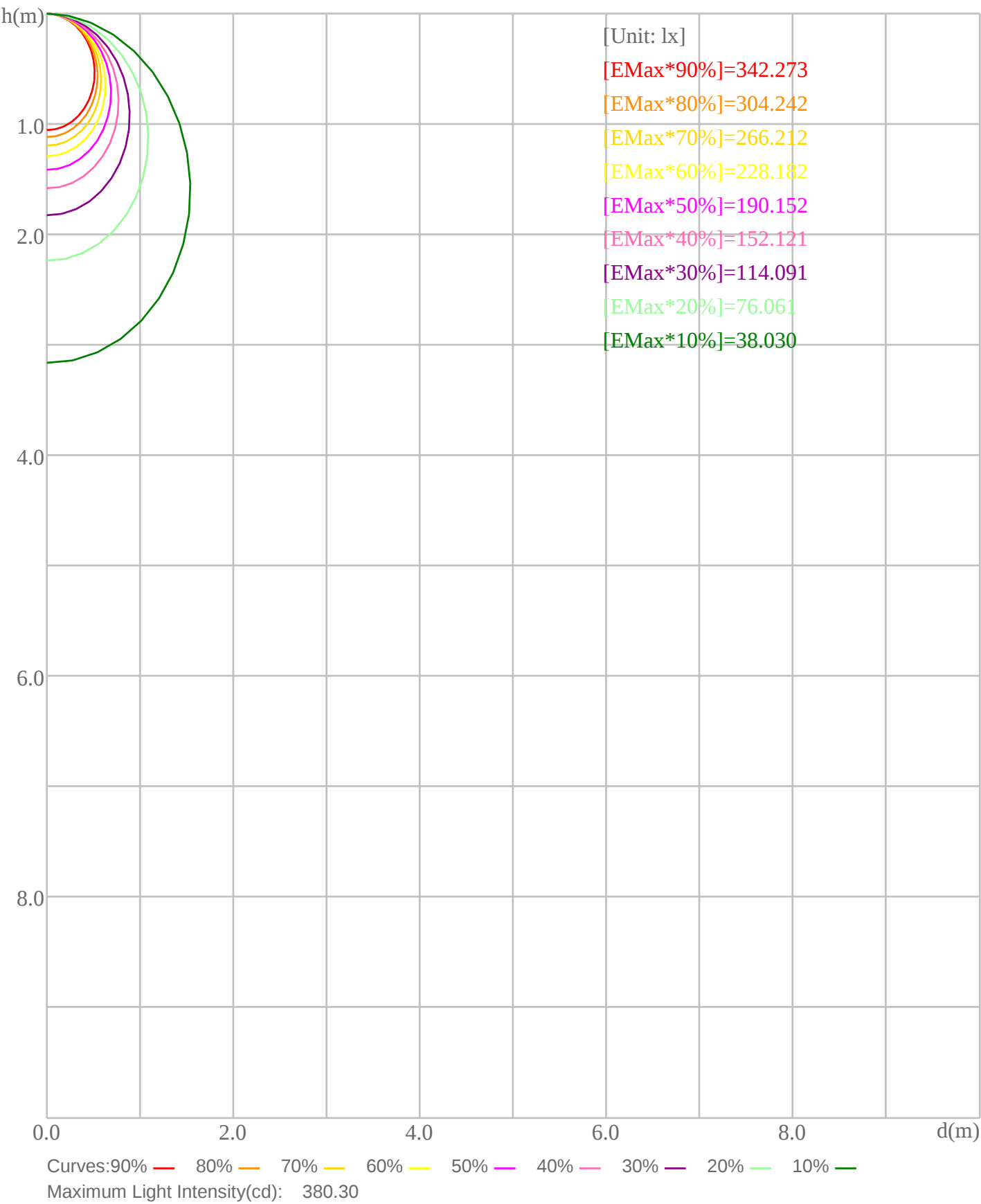


3D Plane ISO Illuminance Curve

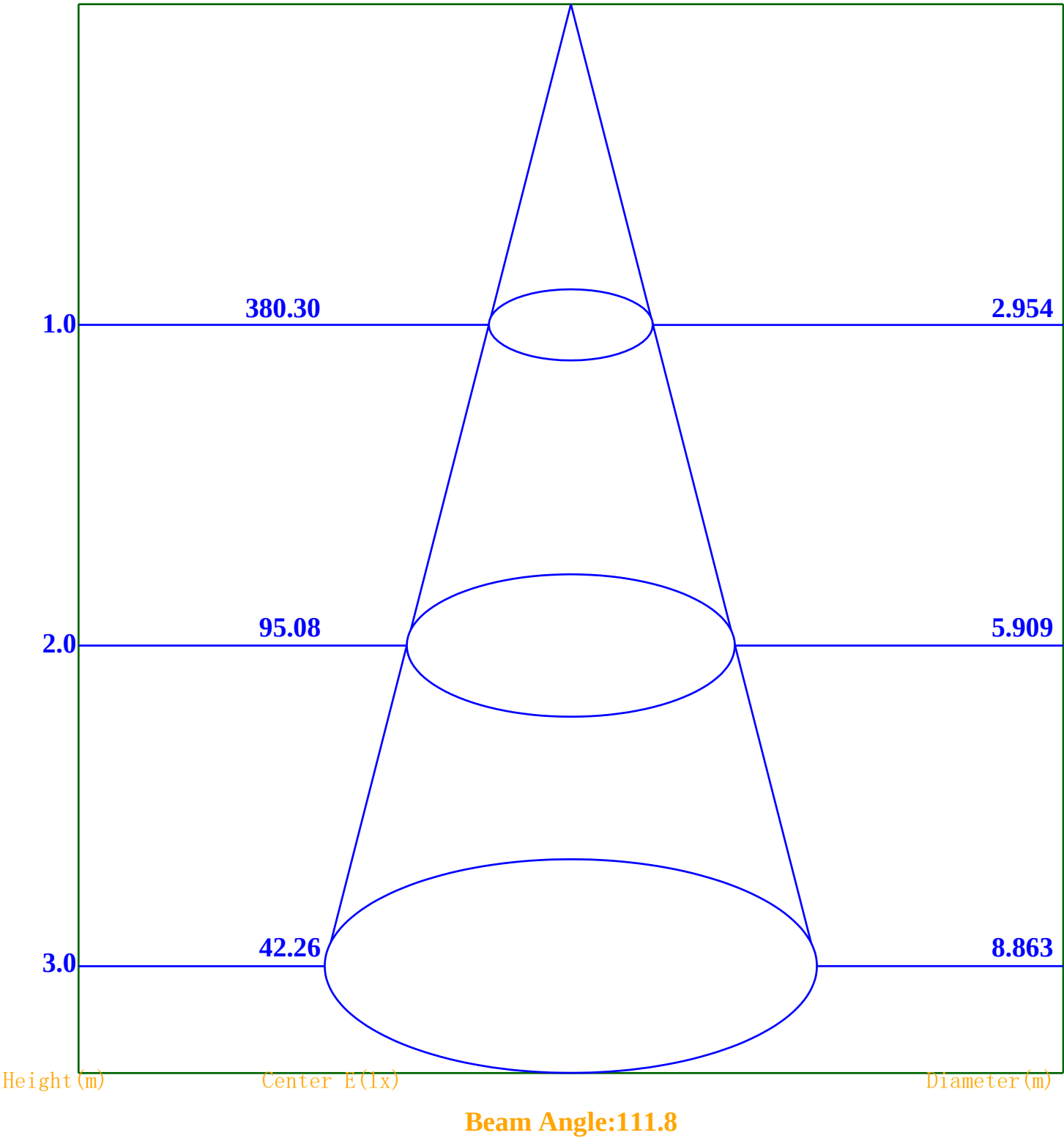


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Curve



Illuminance-Distance Curve



Indoor Luminance Limiting Curve

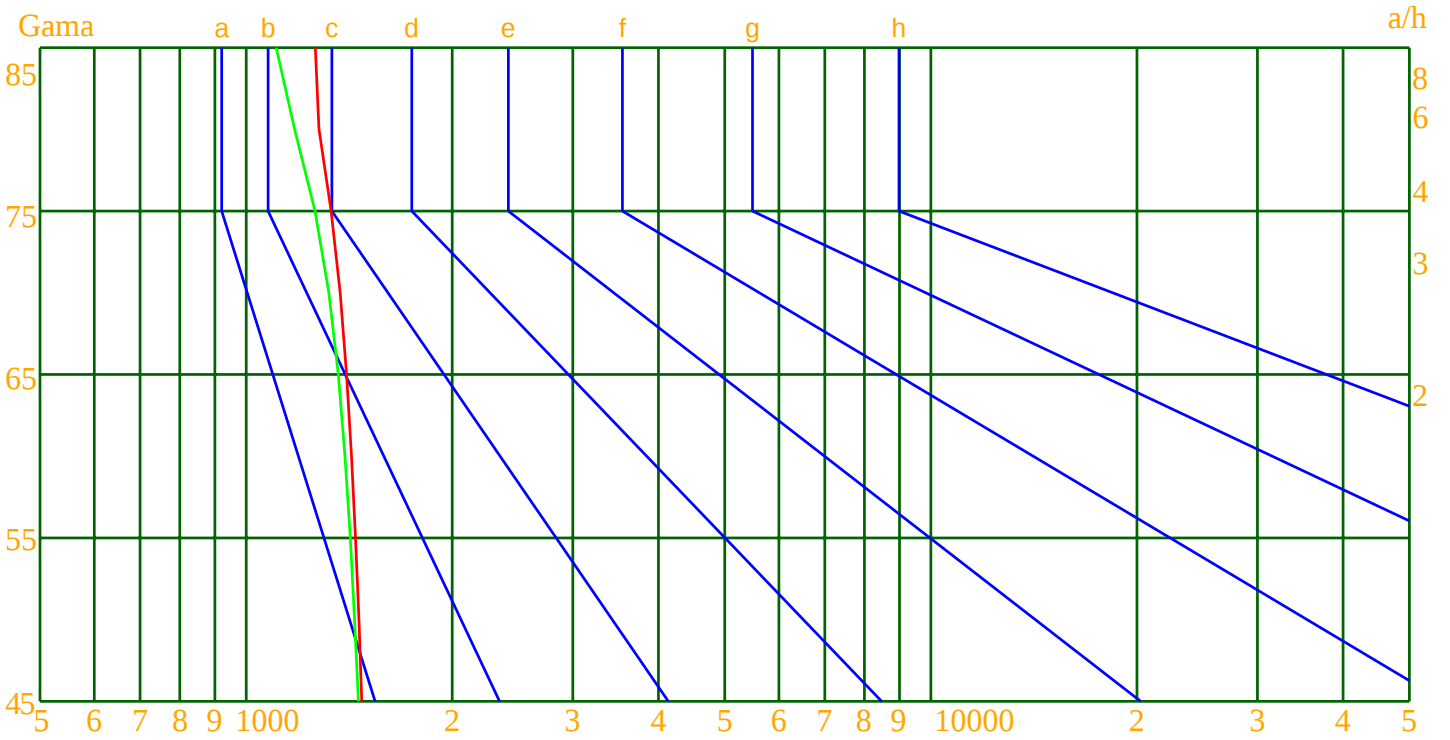
Glare Grade Table

GI	Quality	Using Illuminance							
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 Table

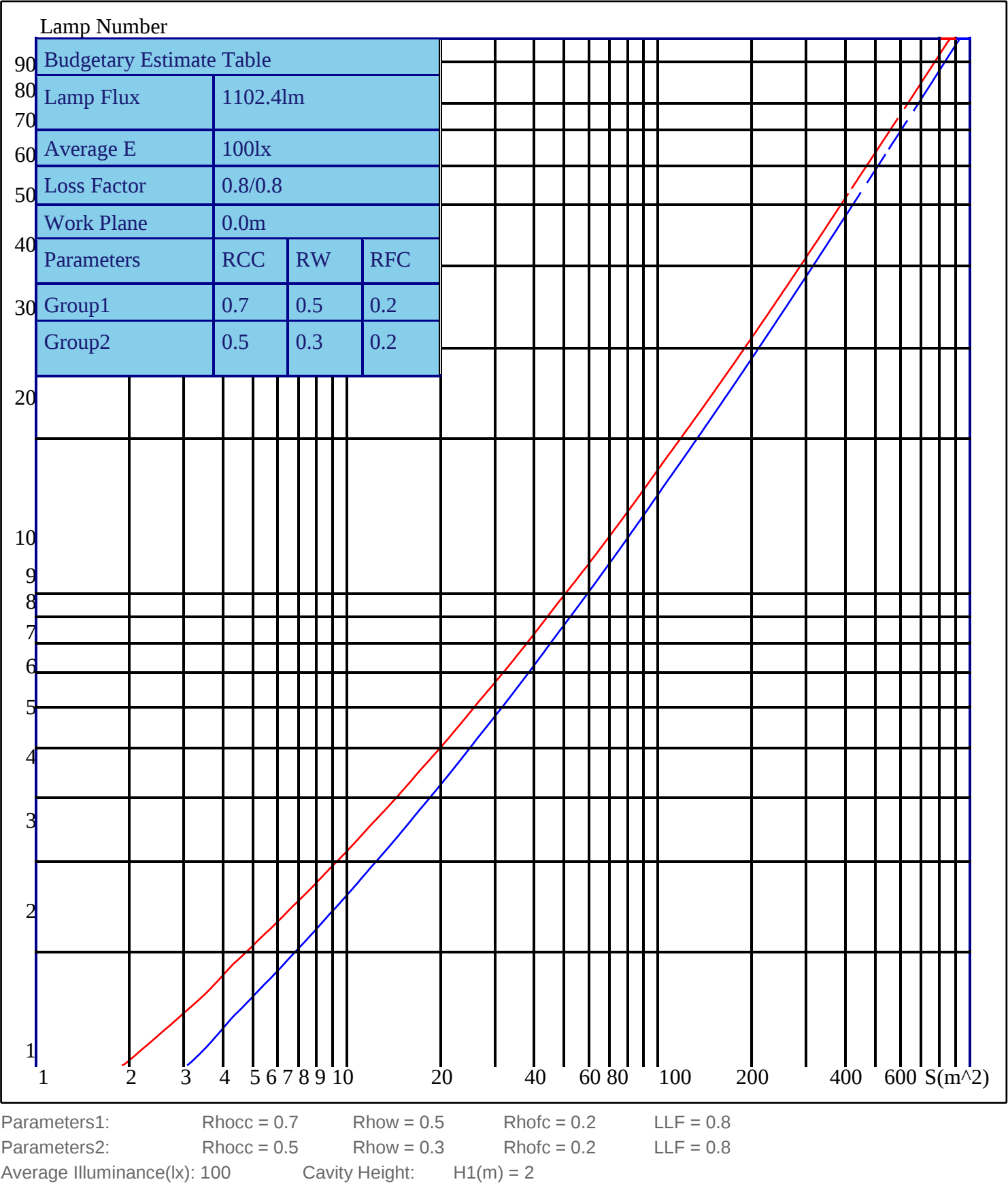
Gama(deg)	45	50	55	60	65	70	75	80	85
C0	2534	2498	2456	2406	2348	2273	2171	2041	2006
C90	2491	2445	2392	2328	2250	2145	2000	1805	1647

Luminance Limiting Curve



Luminous Size: Length(m)=0.330 Width(m)=0.330 Height(m)=0.100 Area(m^2)=0.141900
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table



Indoor Coefficient of Utilization Table

Coefficients of Utilization – Zonal Cavity Method																		
Coefficient	ent Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	68
1	75	71	68	66	73	70	67	64	67	64	62	64	62	60	61	60	58	57
2	68	62	57	53	66	61	56	53	58	54	51	56	53	50	53	51	49	47
3	62	54	49	44	60	53	48	44	51	47	43	49	45	42	47	44	41	40
4	57	48	42	37	55	47	42	37	45	40	36	44	39	36	42	38	35	34
5	52	43	37	32	50	42	36	32	41	35	31	39	35	31	38	34	31	29
6	48	39	33	28	47	38	32	28	37	31	28	35	31	27	34	30	27	25
7	45	35	29	25	43	35	29	25	33	28	24	32	28	24	31	27	24	22
8	41	32	26	22	40	32	26	22	30	25	22	30	25	22	29	24	21	20
9	39	29	24	20	38	29	23	20	28	23	20	27	23	19	26	22	19	18
10	36	27	22	18	35	27	21	18	26	21	18	25	21	18	25	20	18	16