

Indoor Luminaire Photometric Data

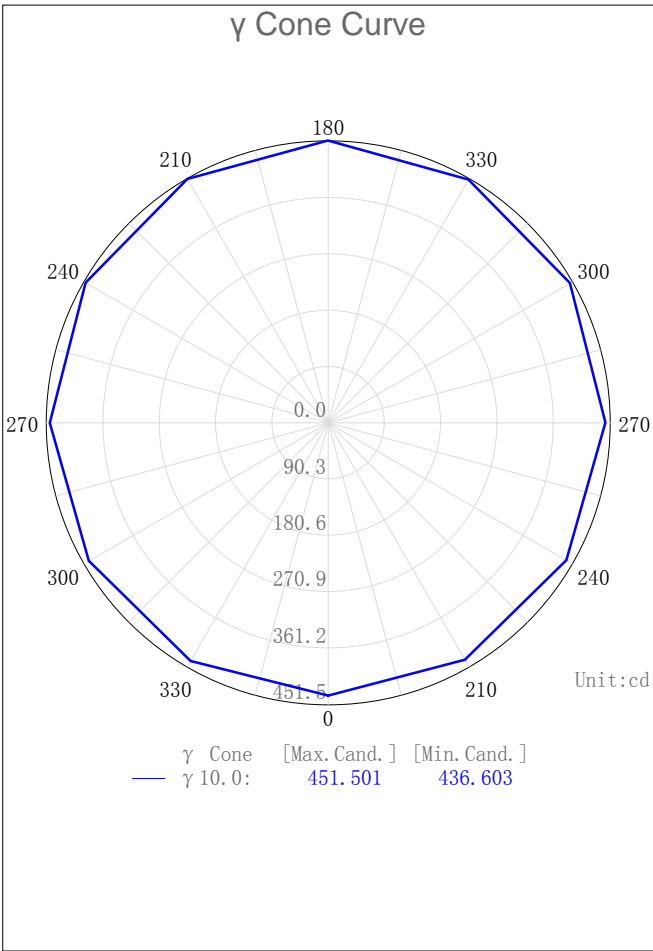
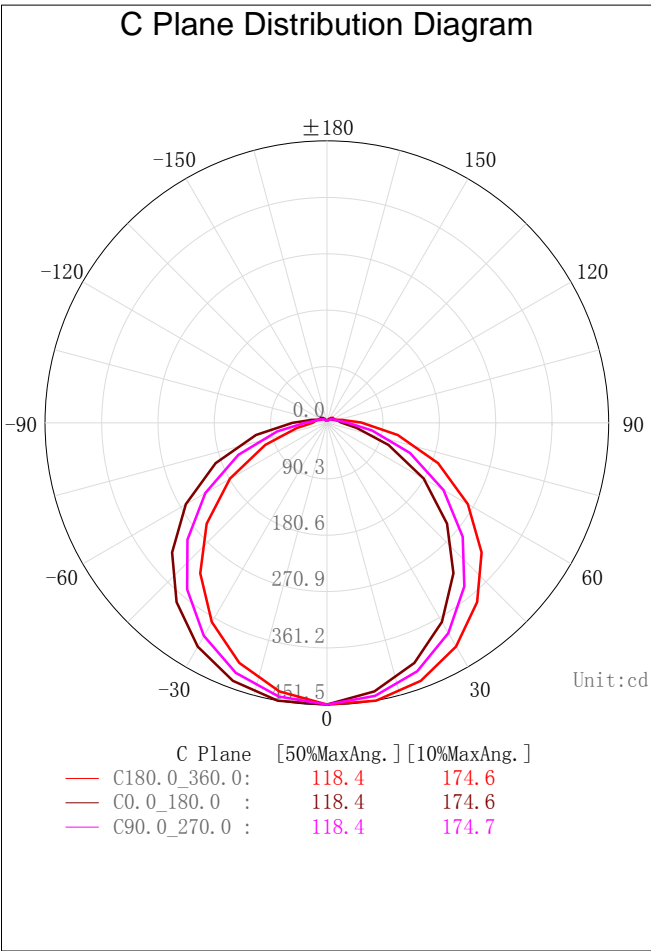
Description Information

Luminary Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Date: 2023/04/27
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.400m*0.400m*0.107m	Lum. Area (m2):0.203	Lum. W (kg): 2.000
Test System: C, γ	Test Step: C=30.0 γ=10.0	Temp. (°C): 25
		Humidity (%): 50.0

Character Parameter

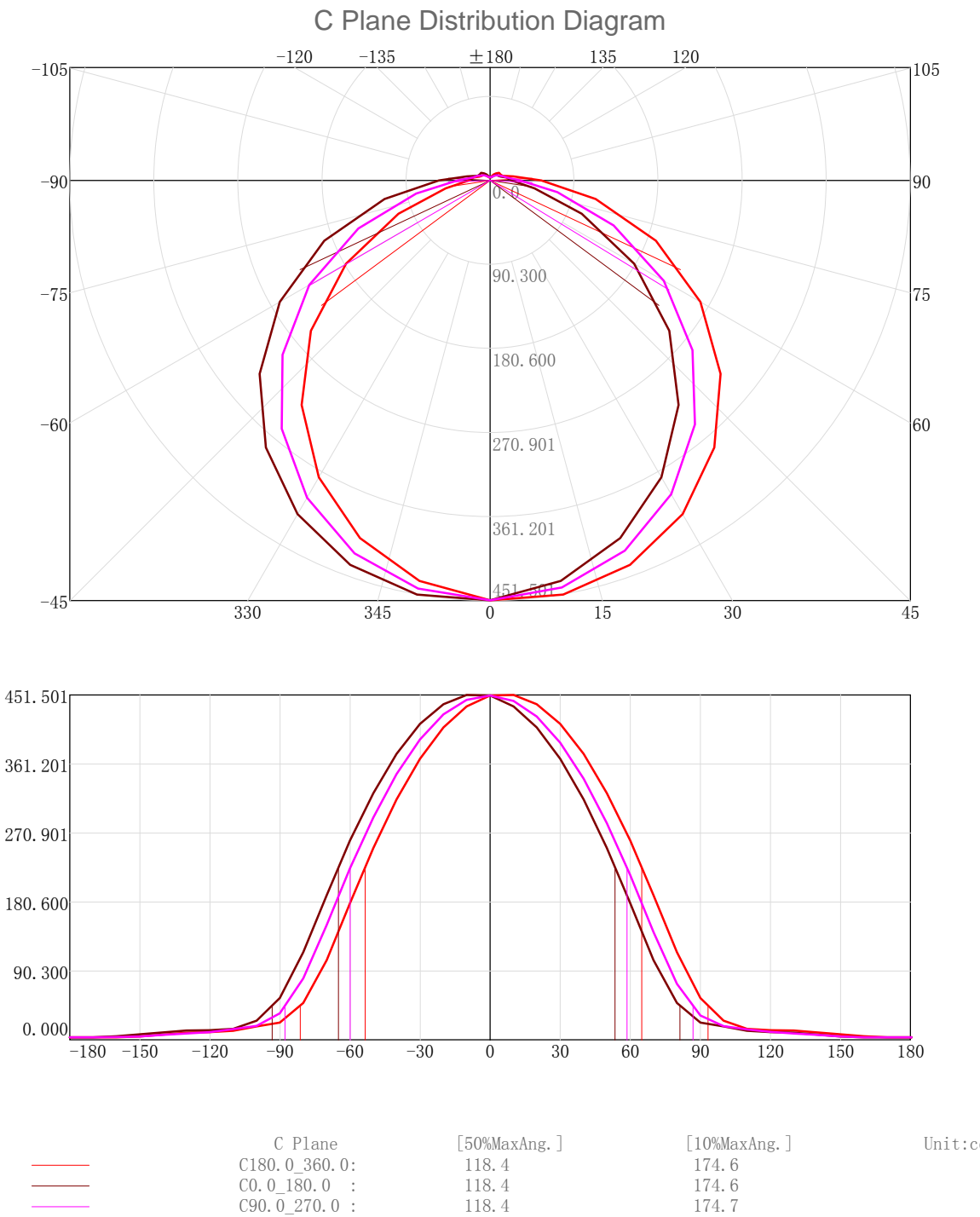
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1600.000	Luminary Flux(lm): 1508.754	Field Angle(10%Imax): 174.6(°)
Rated Power(W):	Luminary Efficiency: 94.30%	Down Lumens&Percent: 1422.326lm 94.27%
Rated Voltage(V):	Luminary EER(lm/W): 119.458	Up Lumens&Percent: 86.428lm 5.73%
Tested Power(W): 12.630	Max. Candela(cd): 451.501	S/MH: C0_a180=1.293 C90_270=1.294
Lamps' Inside: 1	Max Cand@Ang. (°):	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.2, 0.066, 0.829	Beam Angle(50%Imax): 118.4(°)	ErP Φuse(120°): 1064.914lm
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-53.5° , Right=64.9°	IRF (%): 109.446

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

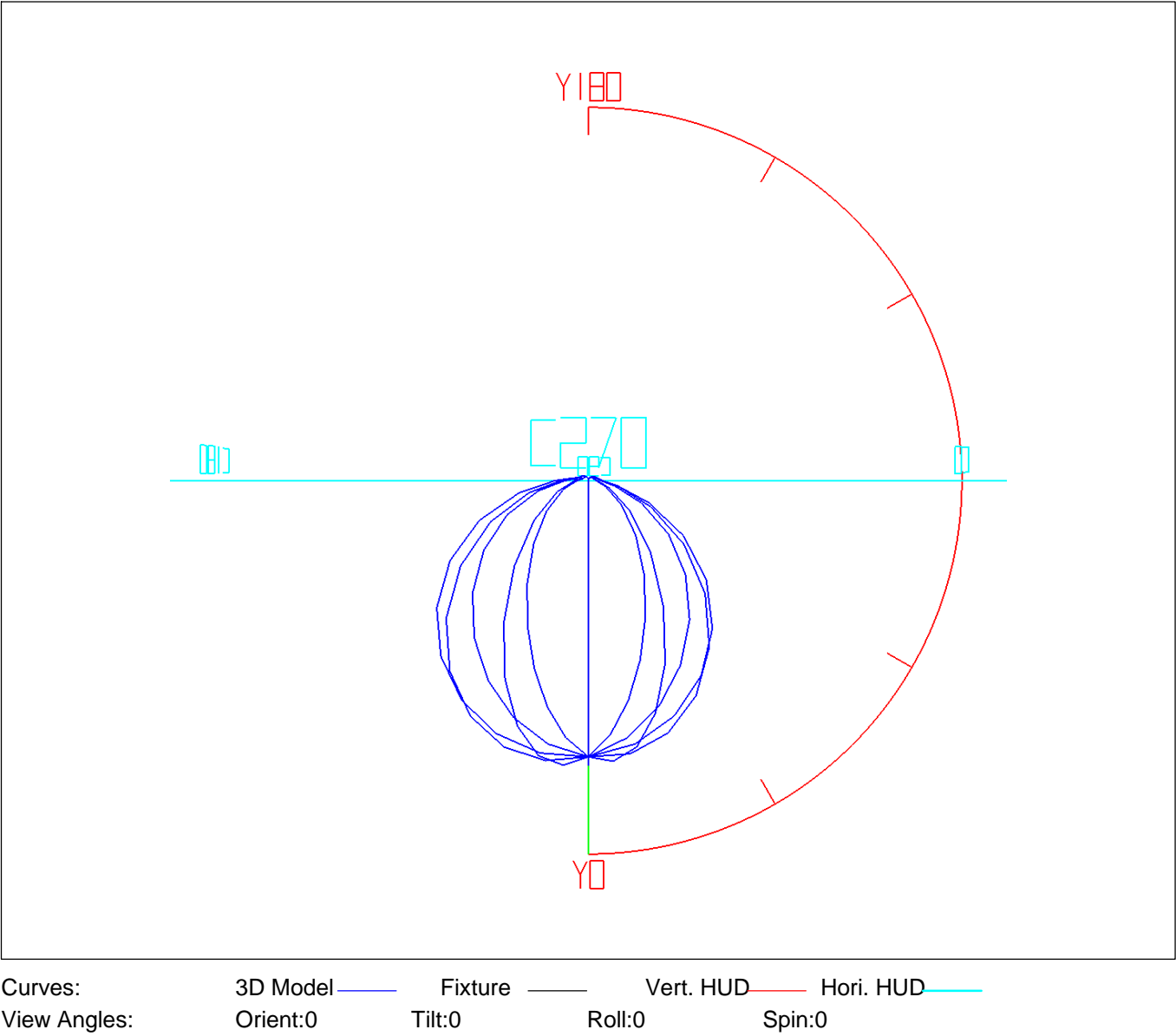
Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



3D Light Intensity Distribution Modal

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
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3D Light Intensity Distribution Modal

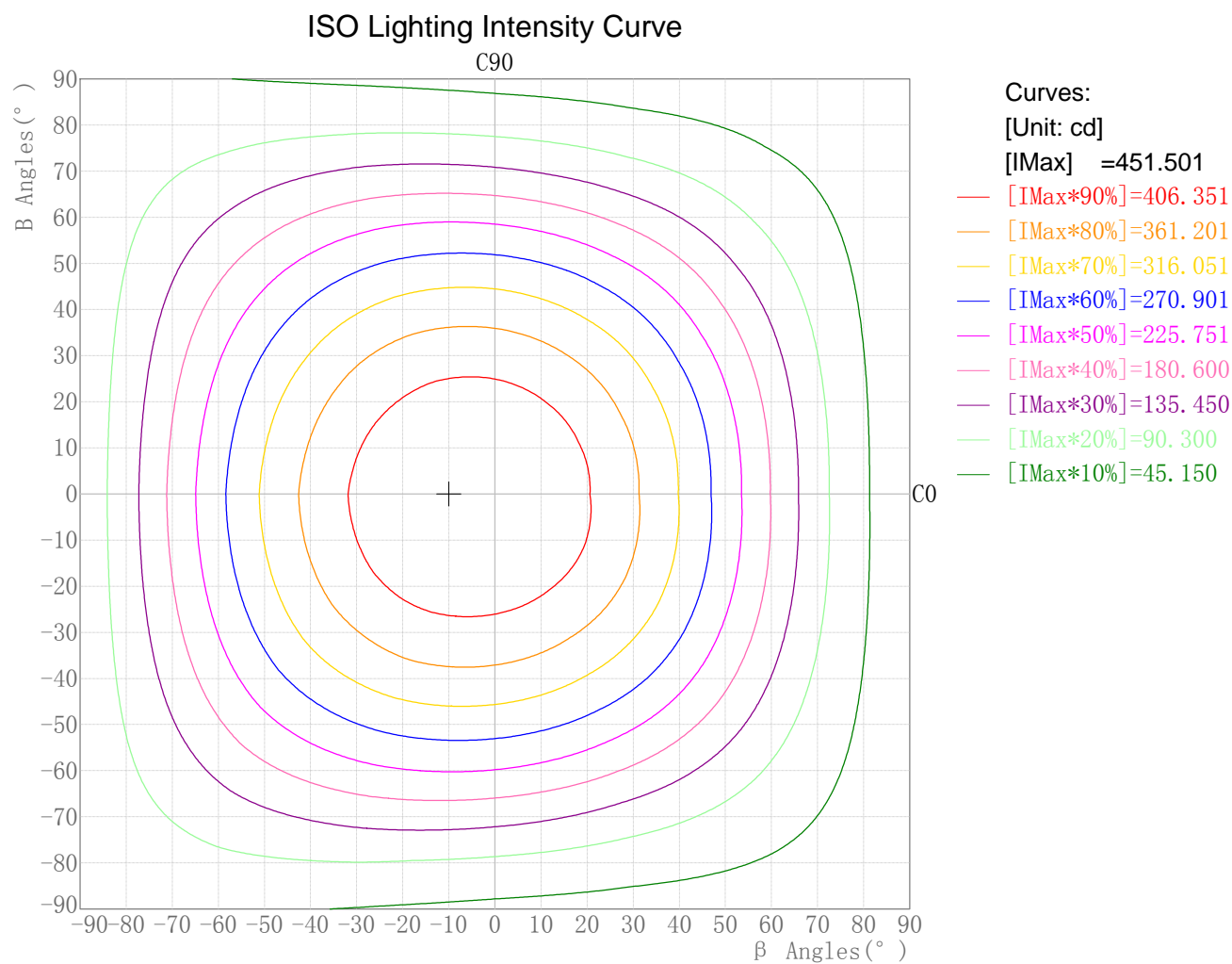


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	42. 72	42. 72	2. 67	2. 67
10. 0-20. 0	123. 15	165. 88	7. 70	10. 37
20. 0-30. 0	188. 77	354. 64	11. 80	22. 17
30. 0-40. 0	231. 22	585. 86	14. 45	36. 62
40. 0-50. 0	244. 89	830. 75	15. 31	51. 92
50. 0-60. 0	227. 62	1058. 37	14. 23	66. 15
60. 0-70. 0	181. 89	1240. 27	11. 37	77. 52
70. 0-80. 0	119. 31	1359. 58	7. 46	84. 97
80. 0-90. 0	62. 75	1422. 33	3. 92	88. 90
90. 0-100. 0	30. 29	1452. 61	1. 89	90. 79
100. 0-110. 0	18. 12	1470. 73	1. 13	91. 92
110. 0-120. 0	13. 27	1484. 00	0. 83	92. 75
120. 0-130. 0	9. 94	1493. 95	0. 62	93. 37
130. 0-140. 0	6. 91	1500. 86	0. 43	93. 80
140. 0-150. 0	4. 22	1505. 07	0. 26	94. 07
150. 0-160. 0	2. 26	1507. 34	0. 14	94. 21
160. 0-170. 0	1. 08	1508. 42	0. 07	94. 28
170. 0-180. 0	0. 34	1508. 75	0. 02	94. 30

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



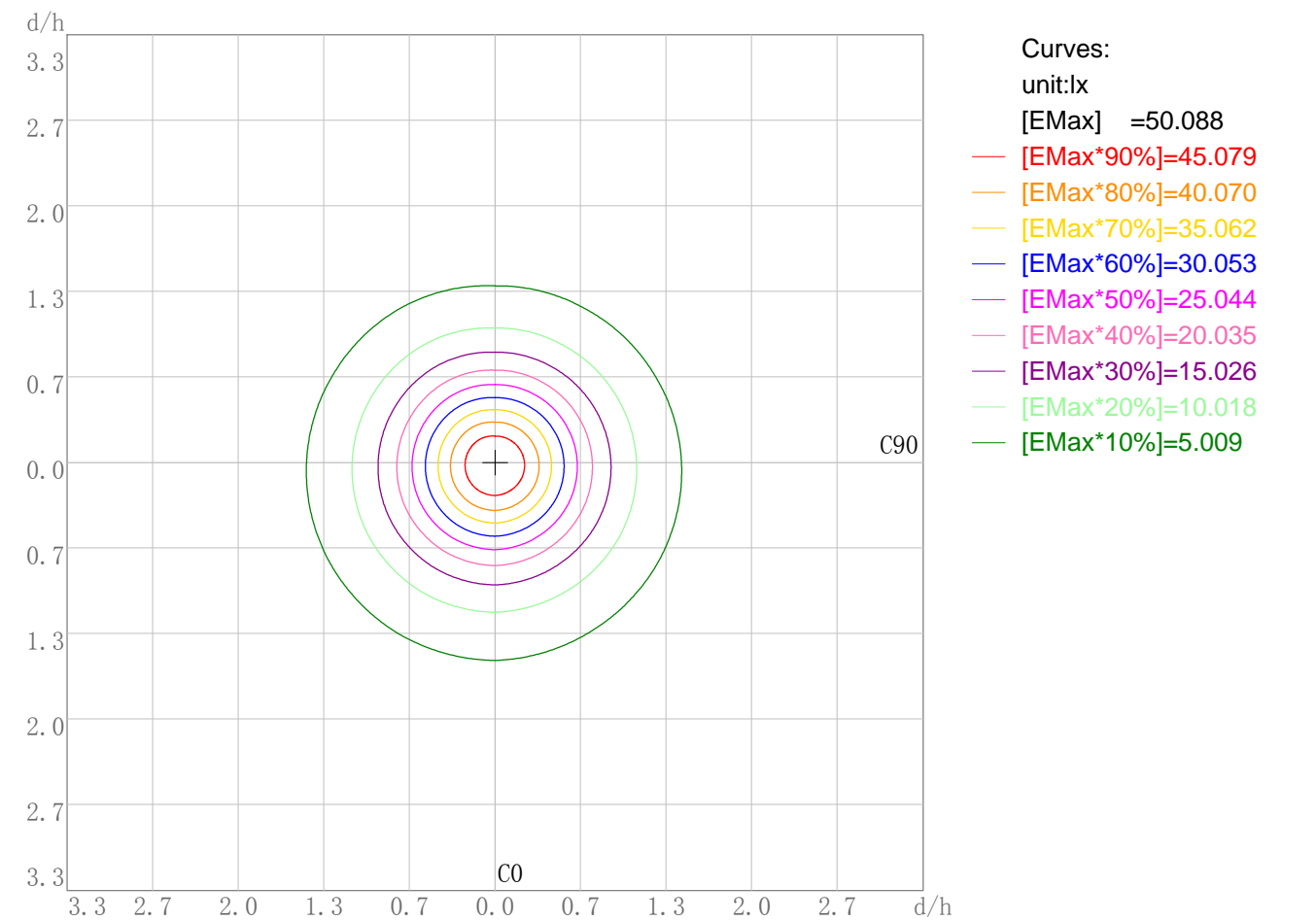
Maximum Light Intensity(cd): 451.50

Maximum Cand.@Angle: H=-10.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

Plane ISO-Illuminance Curve

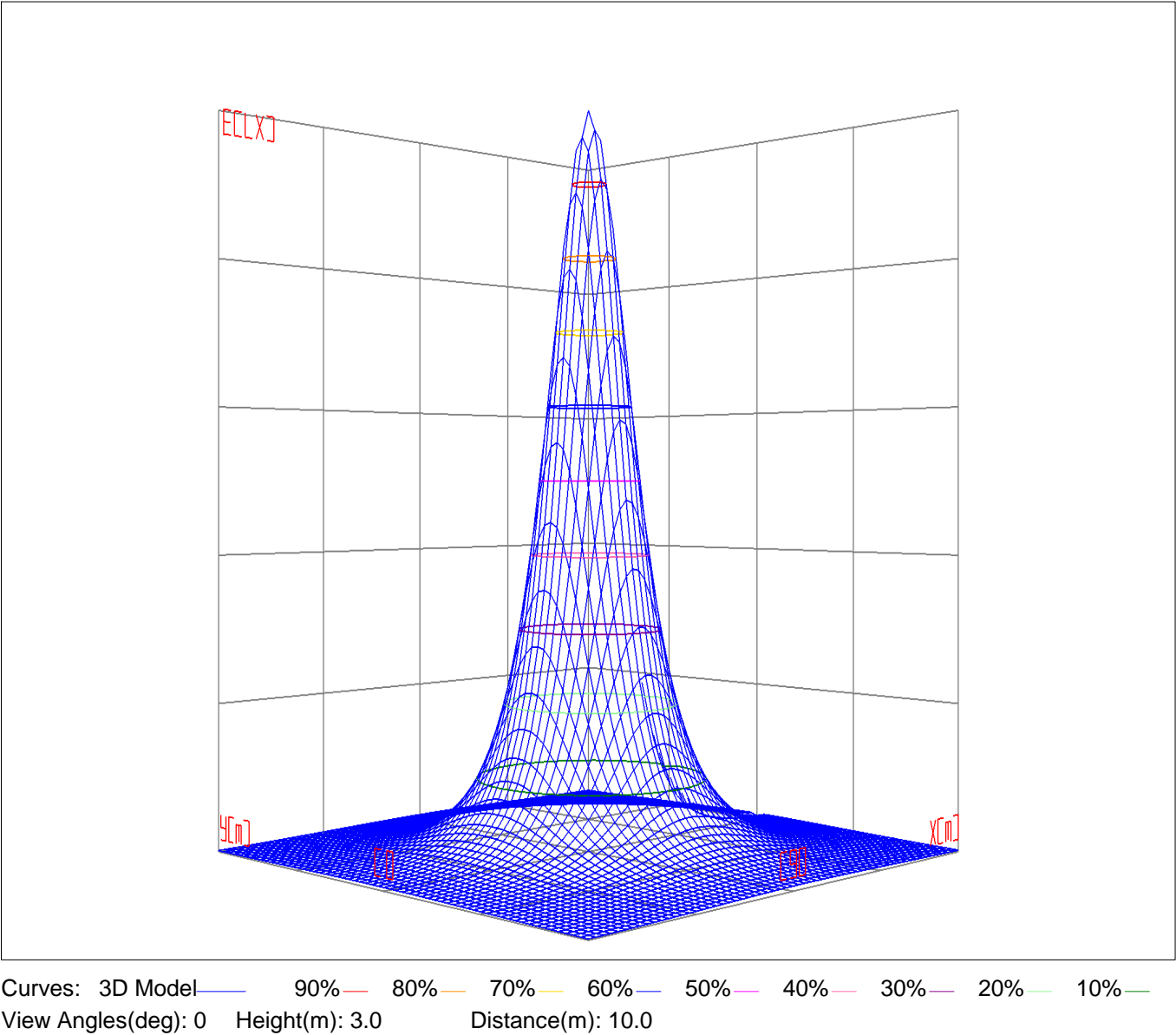


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 50.09
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (3000K 12W)	Lum. Catelog:	Test ID: 20230427
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

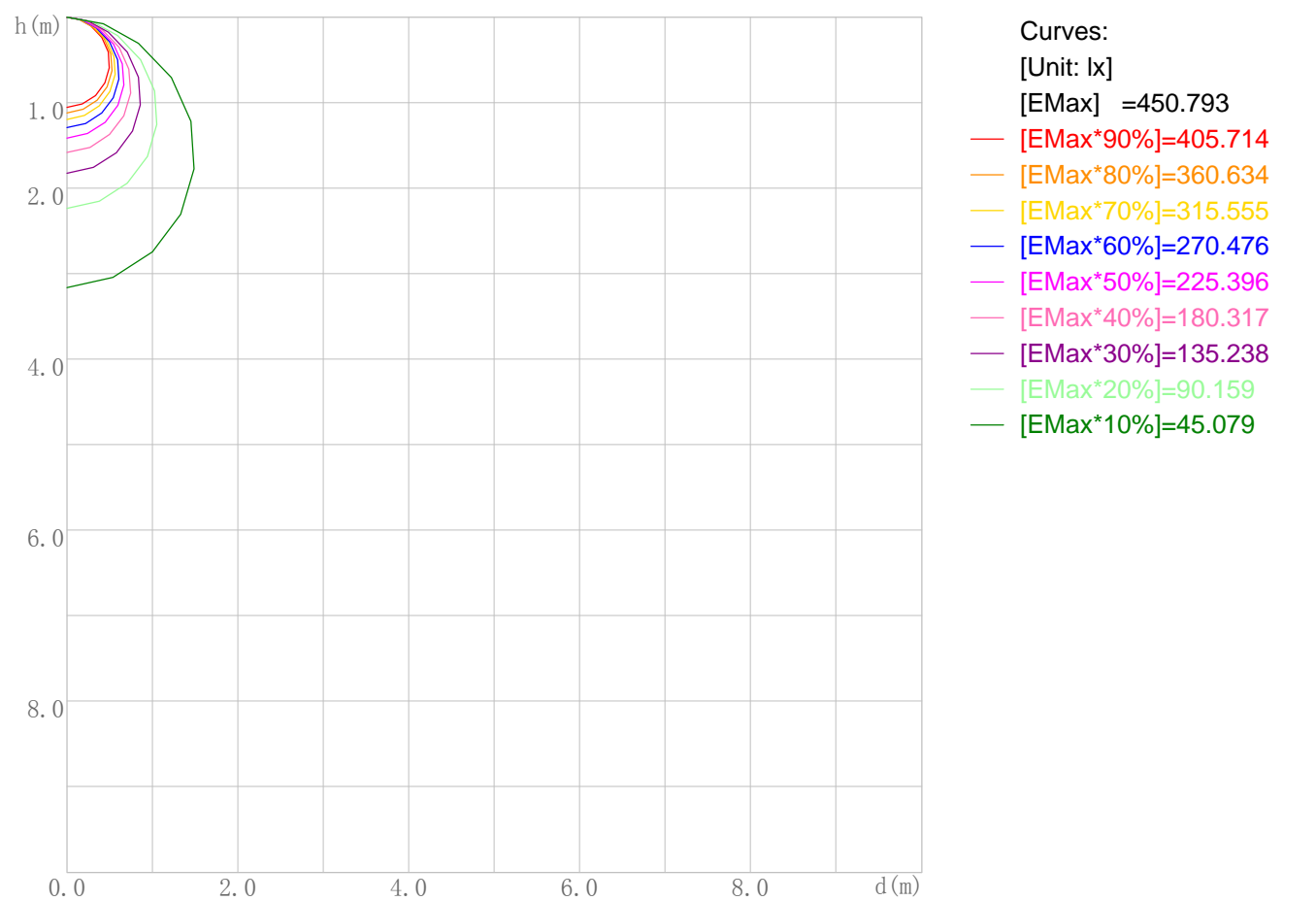
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

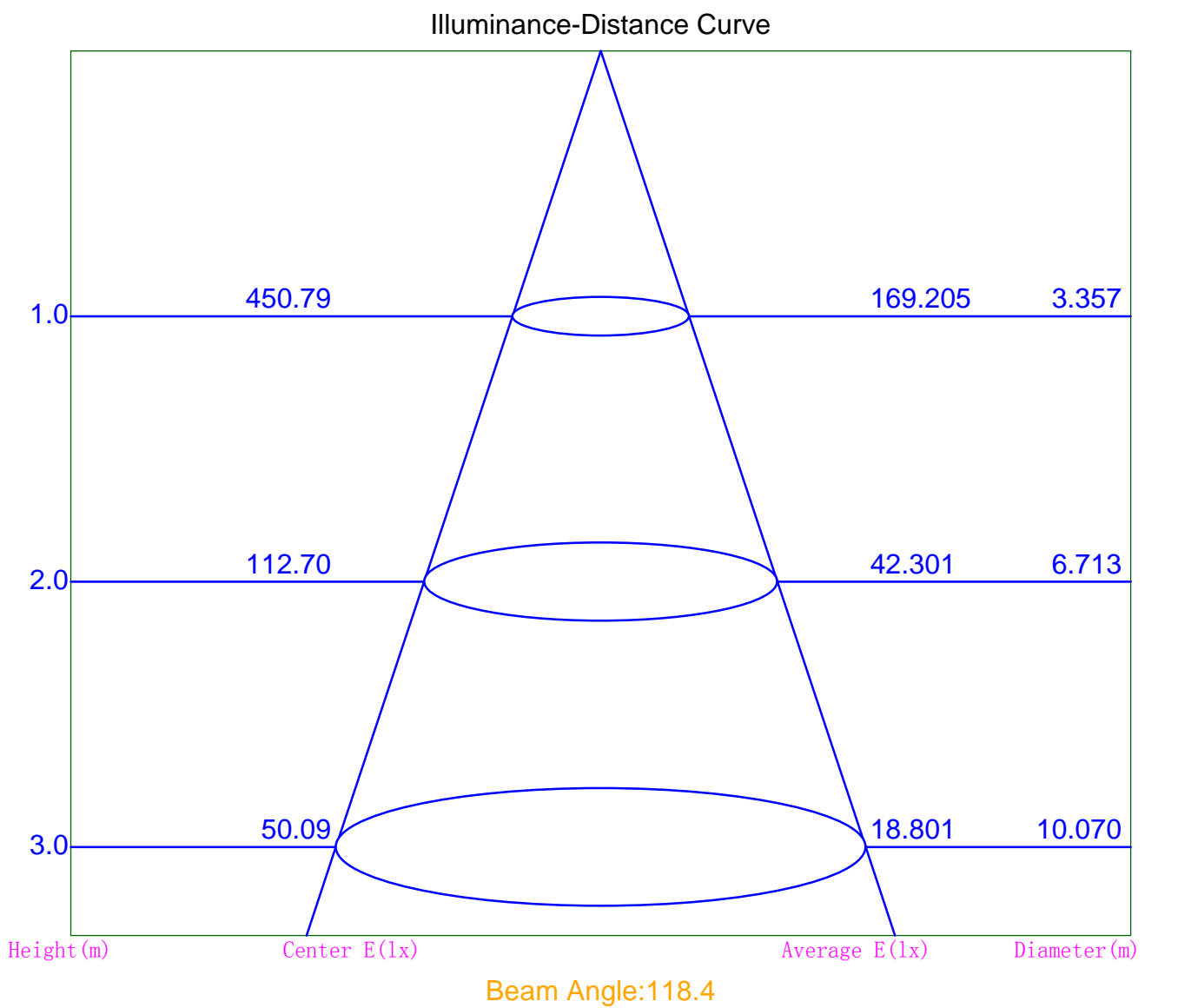
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:450.79lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:450.793cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Indoor Luminance Limiting Curves

Lum. Name:	LED365 (3000K 12W)	Lum. Catalog:	Test ID:	20230427
Lamp Name:		Lamp Catalog: LED	Test Lab:	
Manufacture:		Test Machine:GON-2000	Test Date:	2023/04/27

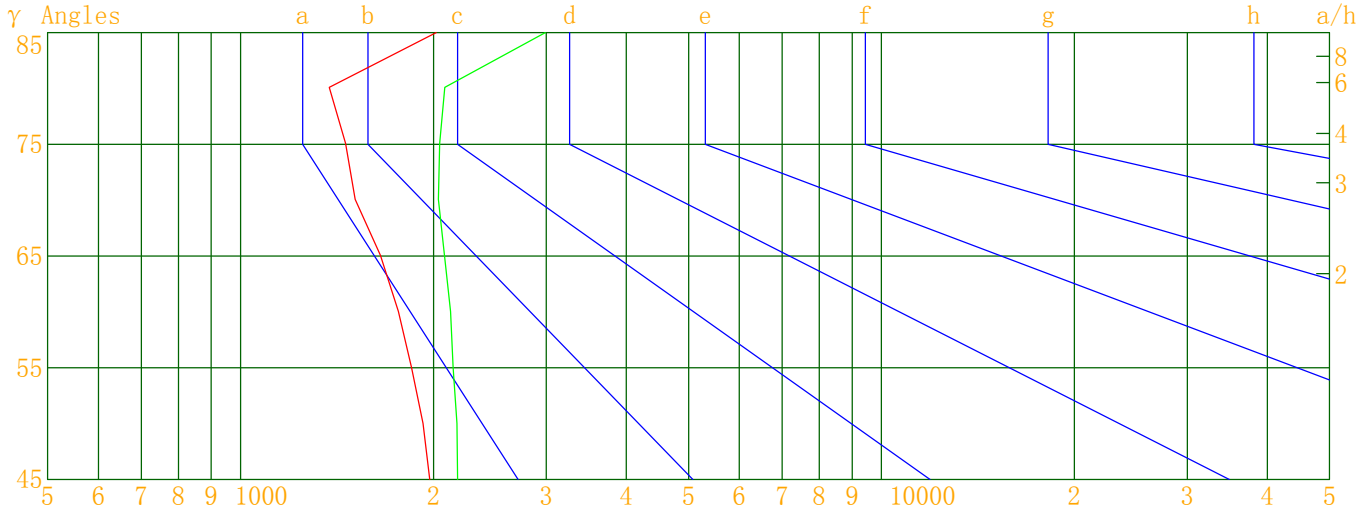
Glare Grade Table

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	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	1973	1926	1848	1763	1653	1509	1458	1375	2019
C90	2182	2176	2146	2127	2082	2036	2044	2084	2988

Luminance Limiting Curve



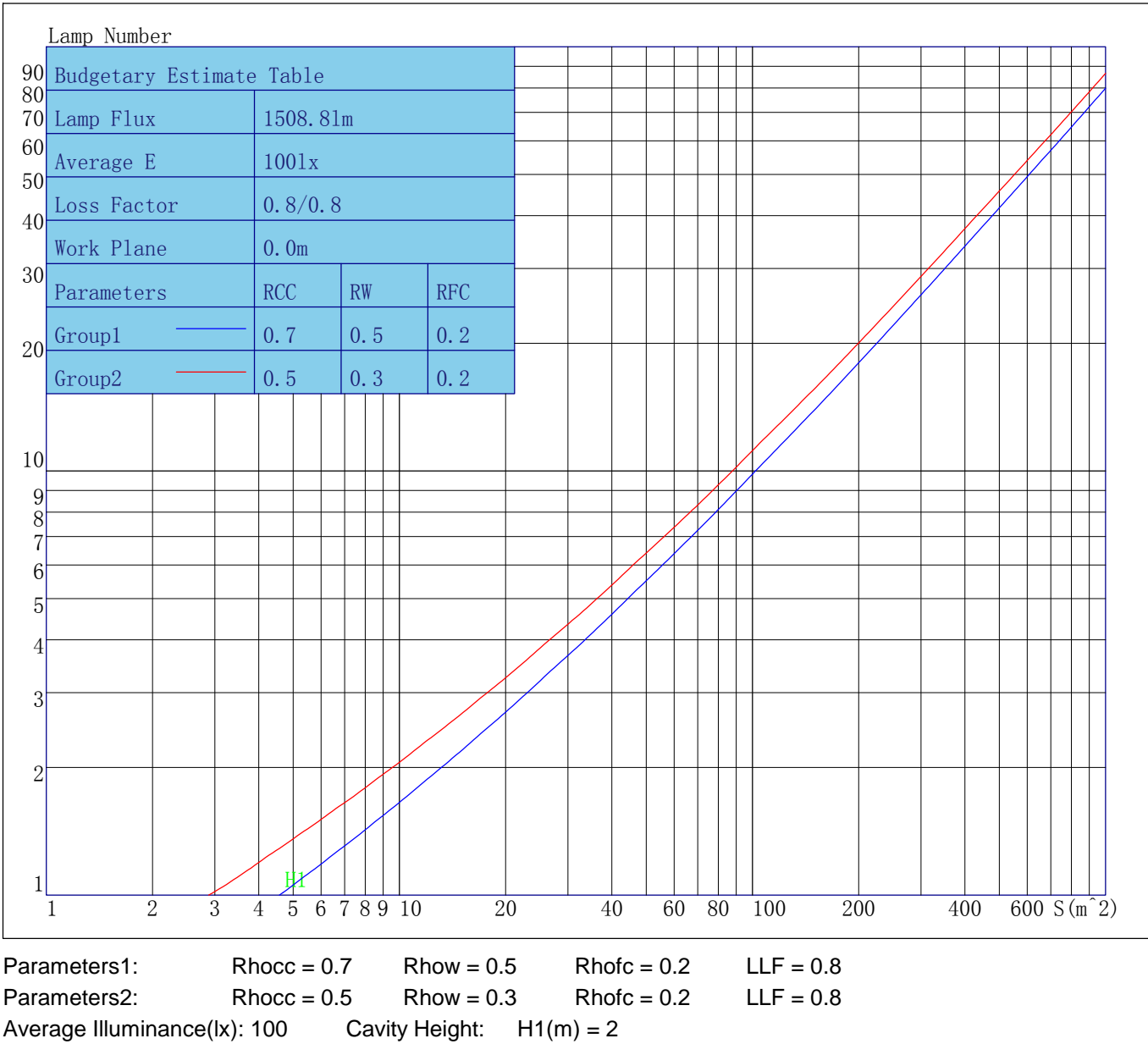
Luminous Size: Length(m)=0.400 Width(m)=0.400 Height(m)=0.107 Area(m^2)=0.202800

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Indoor Coefficient of Utilization Table

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	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	111	111	111	111	108	108	108	108	102	102	102	96	96	96	91	91	91	89
1	100	95	91	87	97	92	88	85	87	84	81	83	80	78	79	76	74	72
2	91	82	75	70	88	80	74	68	76	71	66	72	67	64	68	65	61	59
3	82	72	64	57	79	70	63	57	66	60	55	63	58	53	60	55	52	49
4	75	63	55	48	73	62	54	48	59	52	46	56	50	45	53	48	44	42
5	69	57	48	41	67	55	47	41	53	45	40	50	44	39	48	42	38	36
6	64	51	42	36	61	50	41	36	47	40	35	45	39	34	43	38	33	31
7	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27
8	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
9	51	38	30	25	50	38	30	25	36	29	25	35	29	24	33	28	24	22
10	48	35	28	23	46	35	27	23	33	27	22	32	26	22	31	25	22	20

Unified Glare Rating Table

Lum. Name: LED365 (3000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	14.5	18.1	15.5	19.1	20.0	15.5	19.1	16.5	20.0	21.0
	18.6	22.2	19.6	23.1	24.0	20.3	23.9	21.3	24.9	25.8
	21.1	24.3	22.2	25.3	26.2	23.4	26.6	24.4	27.5	28.5
	22.8	25.9	23.8	26.8	27.8	25.7	28.7	26.7	29.7	30.6
	23.6	26.6	24.6	27.6	28.6	26.8	29.8	27.8	30.8	31.7
	24.5	27.5	25.5	28.4	29.4	27.9	30.9	29.0	31.9	32.9
X=4H Y=2H	16.3	19.4	17.3	20.4	21.4	16.8	19.9	17.8	20.9	21.9
	20.6	23.7	21.6	24.7	25.7	21.9	25.0	22.9	26.0	26.9
	21.7	23.7	23.0	24.9	26.1	23.5	25.4	24.8	26.7	27.8
	23.9	25.7	25.2	26.9	28.1	26.3	28.1	27.6	29.3	30.5
	25.0	26.7	26.3	28.0	29.1	27.7	29.4	29.0	30.7	31.8
	25.4	26.8	26.8	28.2	29.4	28.4	29.9	29.8	31.2	32.5
X=8H Y=4H	22.4	24.1	23.6	25.3	26.5	23.9	25.6	25.2	26.9	28.0
	24.1	25.3	25.5	26.7	28.0	26.2	27.4	27.6	28.7	30.0
	25.0	26.0	26.5	27.5	28.8	27.4	28.4	28.9	29.8	31.2
	26.7	27.6	28.2	29.1	30.4	29.5	30.4	31.0	31.8	33.1
X=12H Y=4H	21.6	23.0	23.0	24.4	25.6	23.1	24.5	24.5	25.9	27.1
	23.8	24.8	25.3	26.3	27.6	25.8	26.8	27.3	28.2	29.6
	25.4	26.3	26.9	27.7	29.0	27.6	28.5	29.1	30.0	31.3
Variations with the objerver position at spacings										
S=1.0H	2.5/-0.6					2.4/-1.5				
S=1.5H	-0.6/-18.5					-1.5/-20.3				
S=2.0H	-0.6/-18.5					-1.5/-20.3				

IES Indoor Report
Photometric Filename: LED365 (3000K 12W)

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 0.0	450.79	450.79	450.79	450.79	450.79	450.79	450.79	450.79	450.79	450.79	450.79	450.79
γ 10.0	436.60	437.77	440.36	443.76	447.00	449.21	451.50	450.49	448.19	445.19	442.27	440.07
γ 20.0	408.89	411.11	416.33	423.17	429.69	434.25	439.42	437.46	432.51	426.10	420.04	415.42
γ 30.0	367.94	371.22	378.85	388.97	398.63	405.56	413.63	410.59	403.13	393.44	384.15	377.28
γ 40.0	314.89	319.14	328.95	342.09	354.57	363.76	374.47	370.56	360.78	348.11	335.82	326.97
γ 50.0	251.11	256.13	268.03	283.69	298.91	309.95	323.14	318.35	306.65	291.25	276.32	265.54
γ 60.0	178.72	184.44	197.71	215.63	233.02	245.70	260.79	255.42	242.04	224.39	207.28	194.92
γ 70.0	104.67	110.08	122.91	141.21	159.48	173.09	189.57	183.83	169.32	150.68	132.70	120.29
γ 80.0	48.42	51.76	60.23	73.39	88.17	99.84	115.04	109.47	96.61	80.71	67.05	58.30
γ 90.0	22.96	23.80	26.65	32.22	39.29	45.82	54.96	51.46	43.64	35.16	29.07	26.23
γ 100.0	18.00	17.39	16.92	18.16	19.59	21.99	25.32	23.42	20.49	18.39	17.22	18.10
γ 110.0	12.24	14.88	13.28	13.89	14.59	17.39	14.48	17.00	14.84	14.20	13.68	15.56
γ 120.0	10.21	12.44	10.63	10.54	12.26	15.07	12.70	14.73	11.91	10.50	10.91	13.01
γ 130.0	9.53	9.82	8.16	8.61	10.27	12.19	12.60	12.31	9.82	8.65	8.76	10.35
γ 140.0	6.97	7.23	6.17	6.66	8.12	9.45	9.95	9.65	7.86	6.69	6.68	7.74
γ 150.0	4.76	5.00	4.59	4.60	6.03	6.92	7.35	7.22	6.21	4.77	5.01	5.44
γ 160.0	3.53	3.62	3.61	3.70	4.28	4.69	5.05	5.05	4.57	3.78	3.79	3.80
γ 170.0	3.52	3.54	3.49	3.46	3.44	3.45	3.60	3.64	3.54	3.48	3.46	3.50
γ 180.0	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52