

Indoor Luminaire Photometric Data

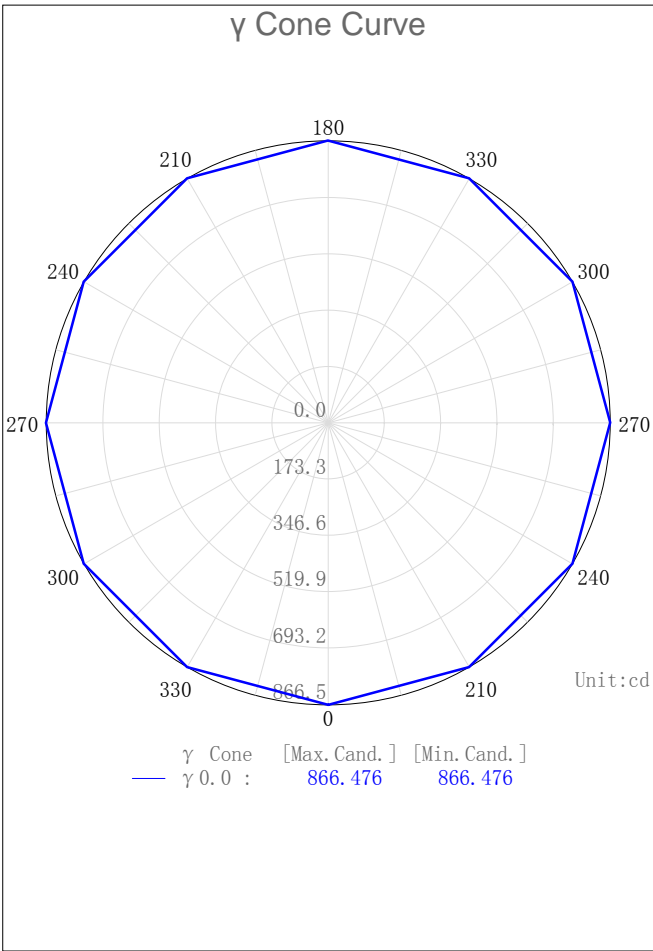
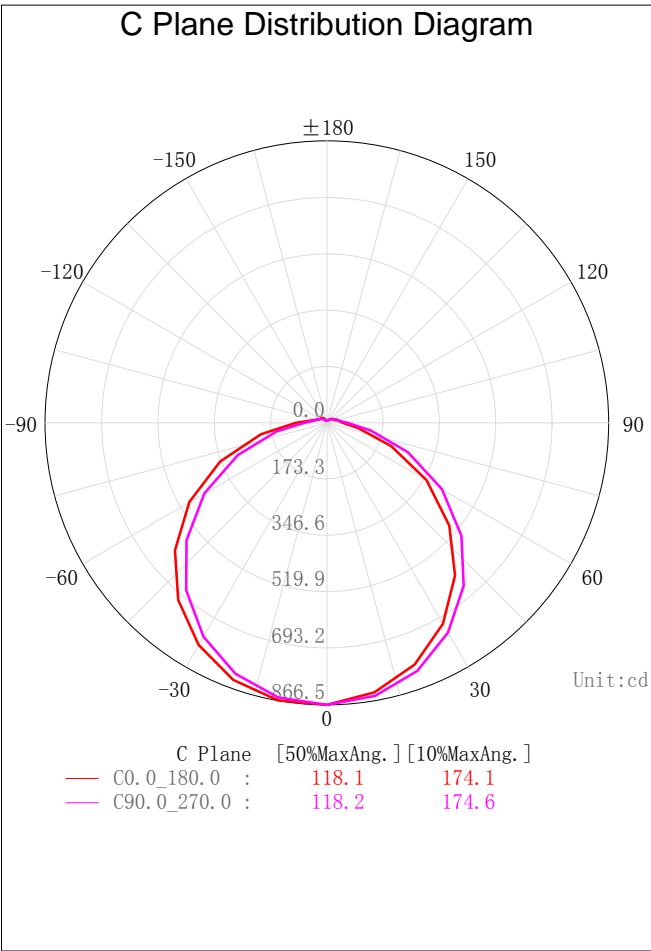
Description Information

Luminary Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Date: 2023/04/26
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

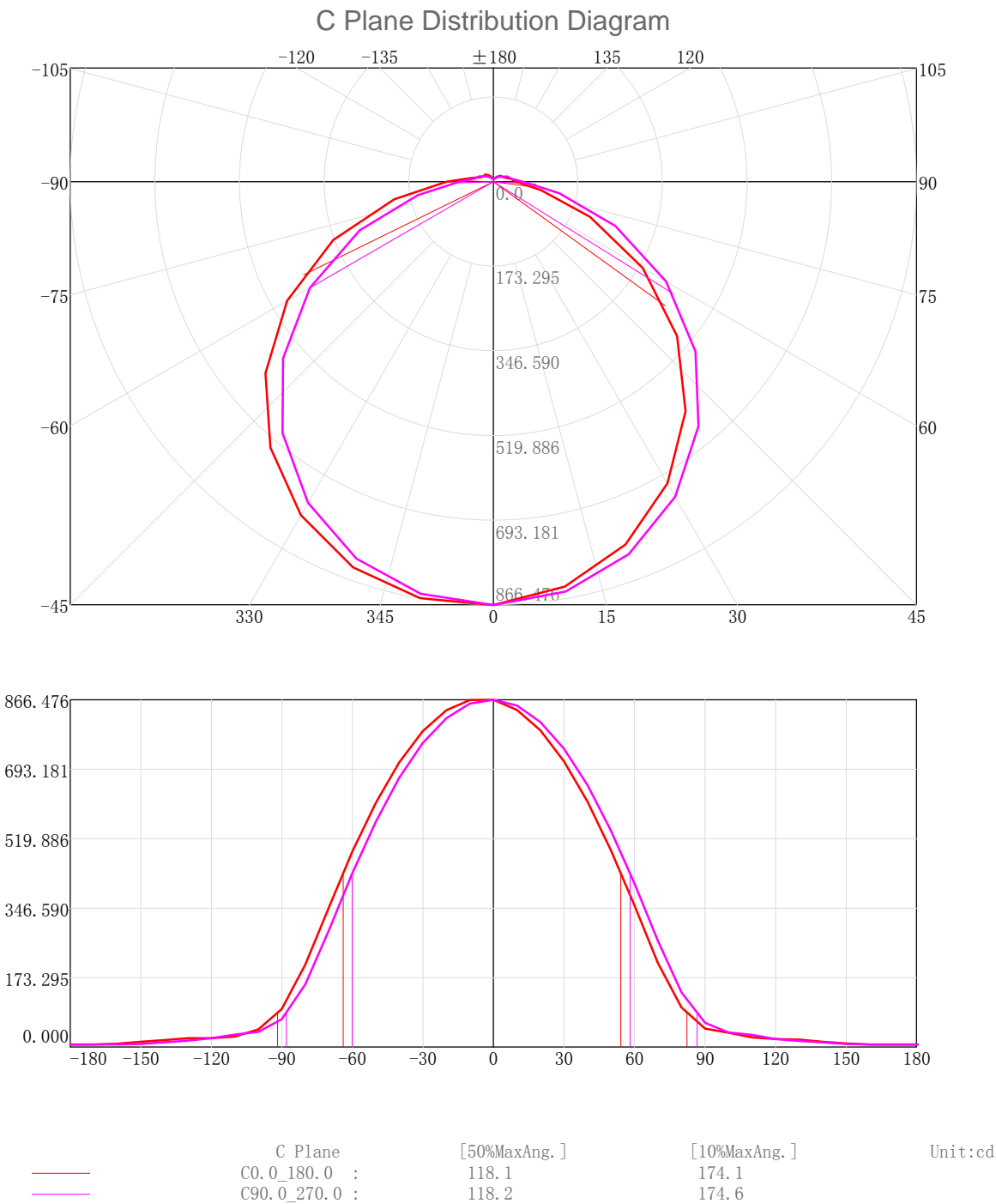
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3200.000	Luminary Flux(lm): 2892.196	Field Angle(10%Imax): 174.1(°)
Rated Power(W):	Luminary Efficiency: 90.38%	Down Lumens&Percent: 2723.501lm 94.17%
Rated Voltage(V):	Luminary EER(lm/W): 118.436	Up Lumens&Percent: 168.695lm 5.83%
Tested Power(W): 24.420	Max. Candela(cd): 866.476	S/MH: C0_a180=1.292 C90_270=1.293
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.3, 0.114, 0.933	Beam Angle(50%Imax): 118.1(°)	ErP Φuse(120°): 2041.566lm
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-63.9°, Right=54.2°	IRF (%): 108.818

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

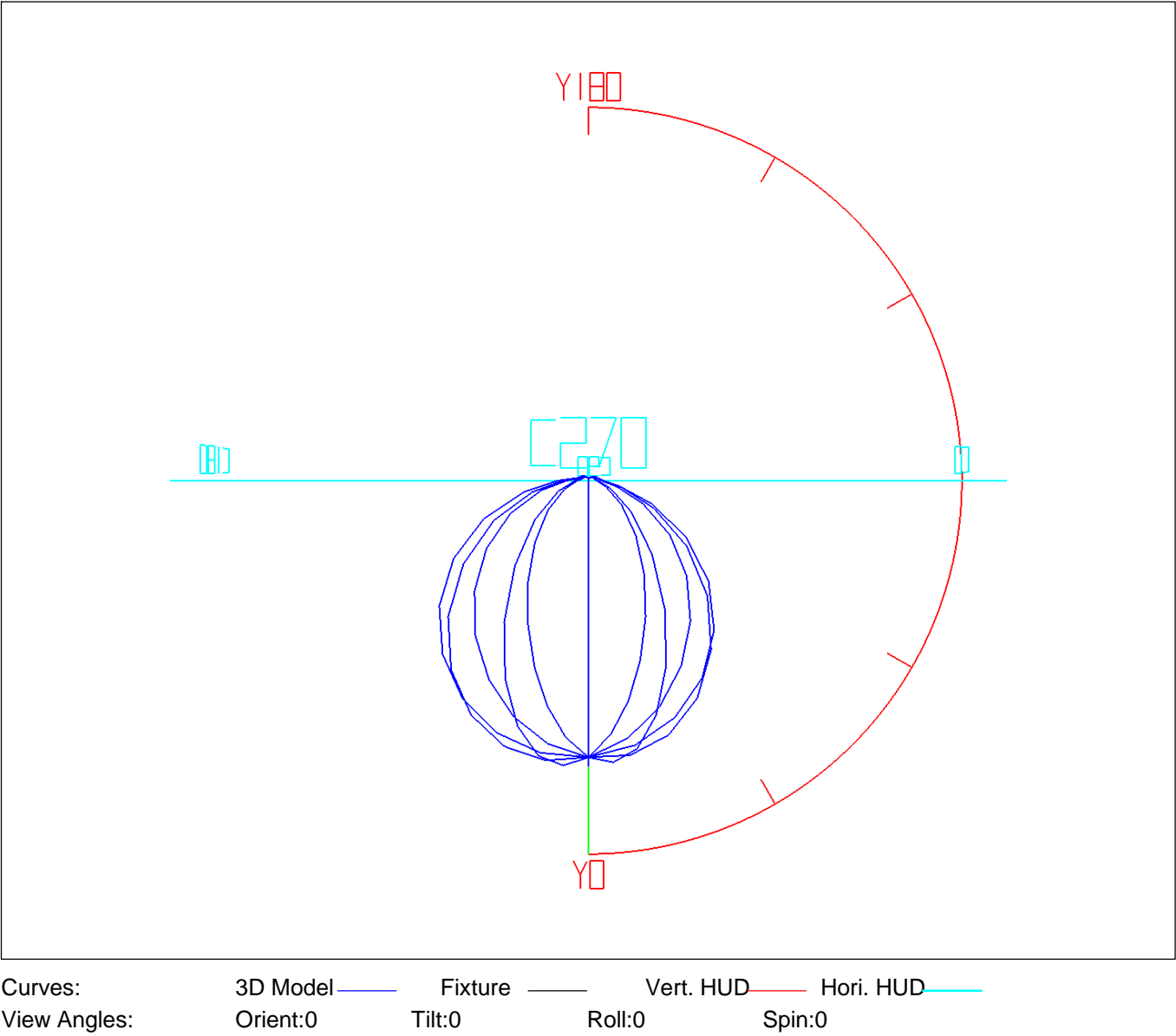
Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
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3D Light Intensity Distribution Modal

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
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3D Light Intensity Distribution Modal

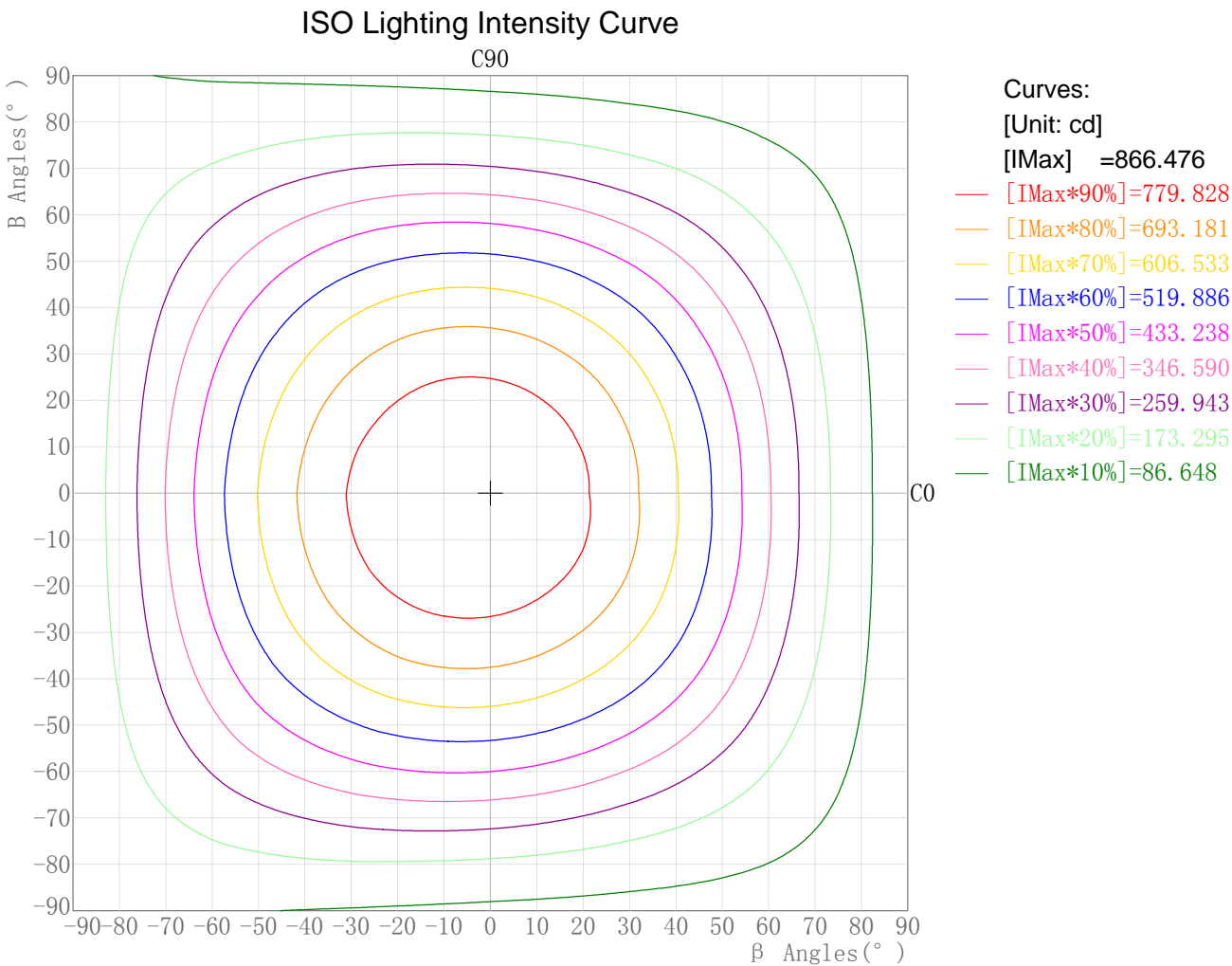


Zonal Flux Tabulation

Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	82. 12	82. 12	2. 57	2. 57
10. 0-20. 0	236. 69	318. 81	7. 40	9. 96
20. 0-30. 0	362. 71	681. 52	11. 33	21. 30
30. 0-40. 0	444. 01	1125. 53	13. 88	35. 17
40. 0-50. 0	469. 80	1595. 33	14. 68	49. 85
50. 0-60. 0	435. 97	2031. 30	13. 62	63. 48
60. 0-70. 0	347. 34	2378. 64	10. 85	74. 33
70. 0-80. 0	226. 55	2605. 19	7. 08	81. 41
80. 0-90. 0	118. 31	2723. 50	3. 70	85. 11
90. 0-100. 0	57. 91	2781. 41	1. 81	86. 92
100. 0-110. 0	36. 48	2817. 89	1. 14	88. 06
110. 0-120. 0	26. 92	2844. 81	0. 84	88. 90
120. 0-130. 0	19. 39	2864. 21	0. 61	89. 51
130. 0-140. 0	13. 19	2877. 39	0. 41	89. 92
140. 0-150. 0	7. 94	2885. 33	0. 25	90. 17
150. 0-160. 0	4. 22	2889. 55	0. 13	90. 30
160. 0-170. 0	2. 02	2891. 57	0. 06	90. 36
170. 0-180. 0	0. 63	2892. 20	0. 02	90. 38

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26



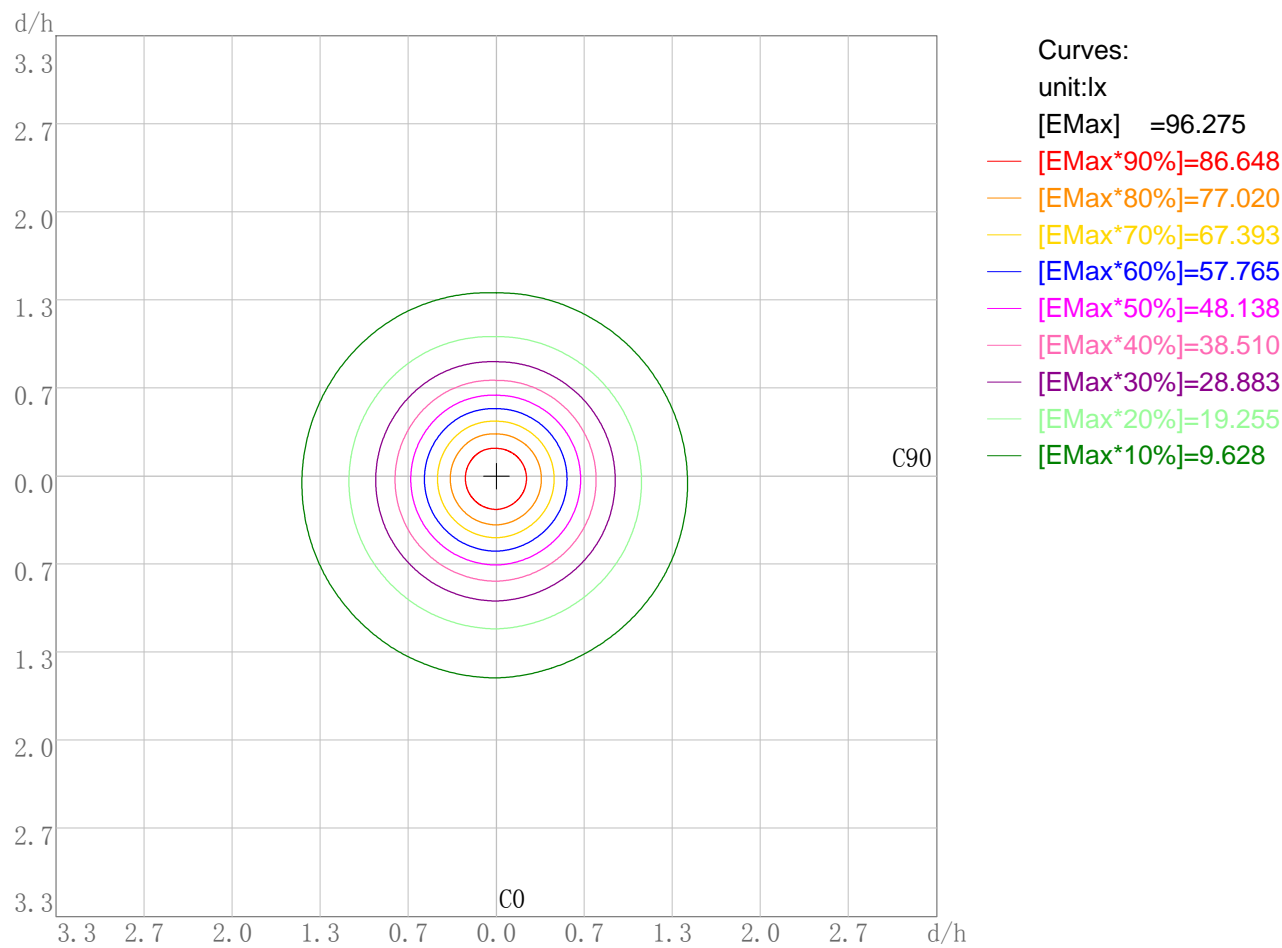
Maximum Light Intensity(cd): 866.48

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

Plane ISO-Illuminance Curve

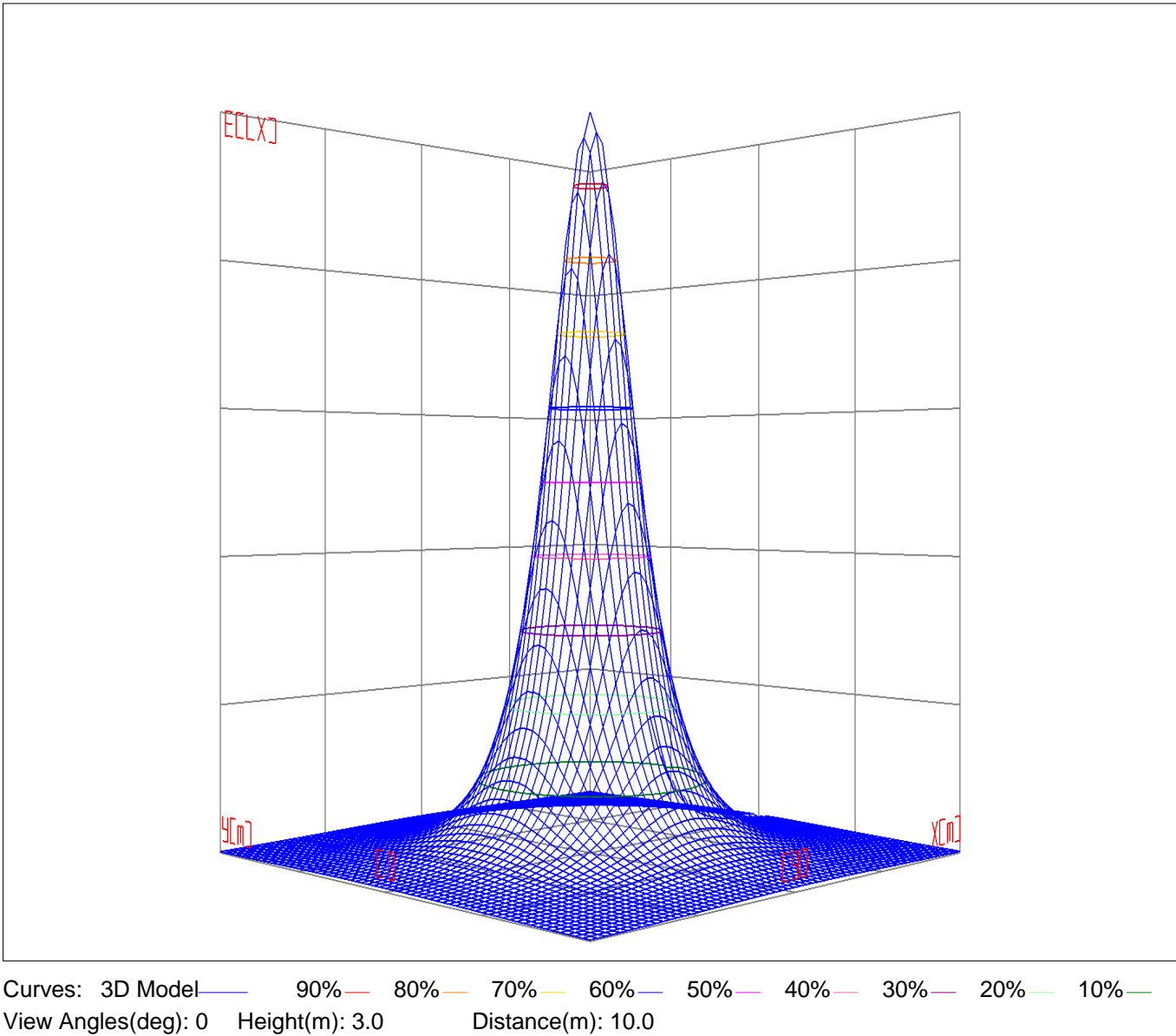


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 96.28  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (3000K 24W)	Lum. Catelog:	Test ID: 20230426
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

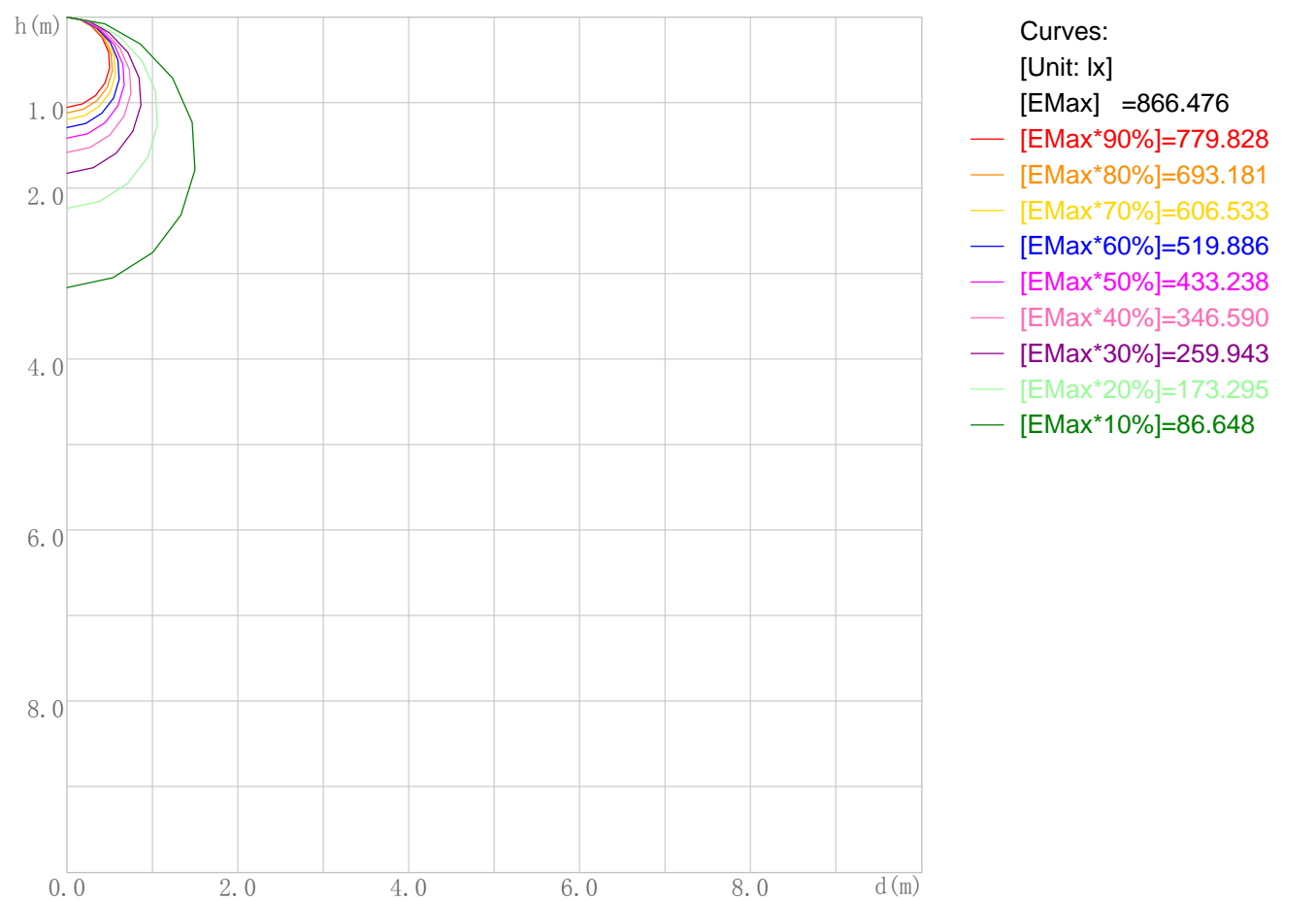
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

Space ISO Illuminance Curve

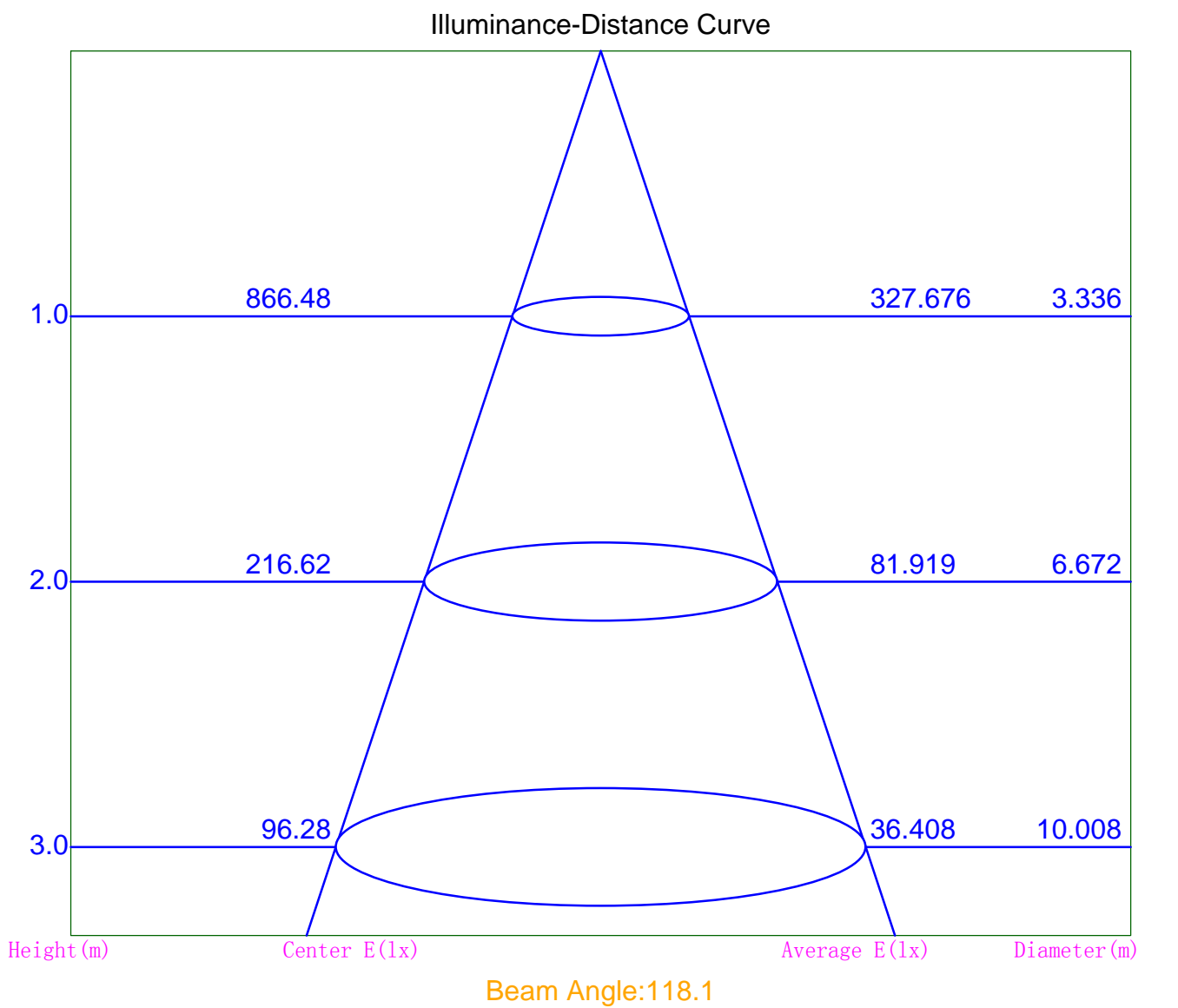


Space Plane Maximum Illuminance and @Angle:866.48lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:866.476cd,0deg



Illuminance-Distance Diagram

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26



Indoor Luminance Limiting Curves

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

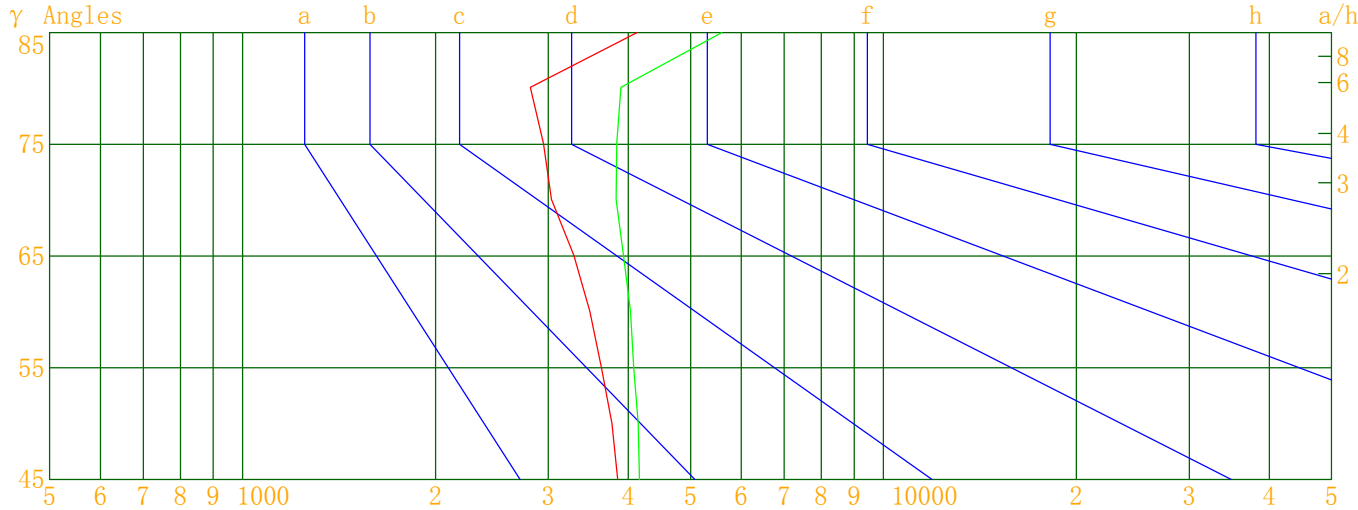
Glare Grade Table

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	3849	3770	3631	3484	3289	3035	2949	2814	4123
C90	4161	4144	4078	4029	3932	3827	3834	3893	5594

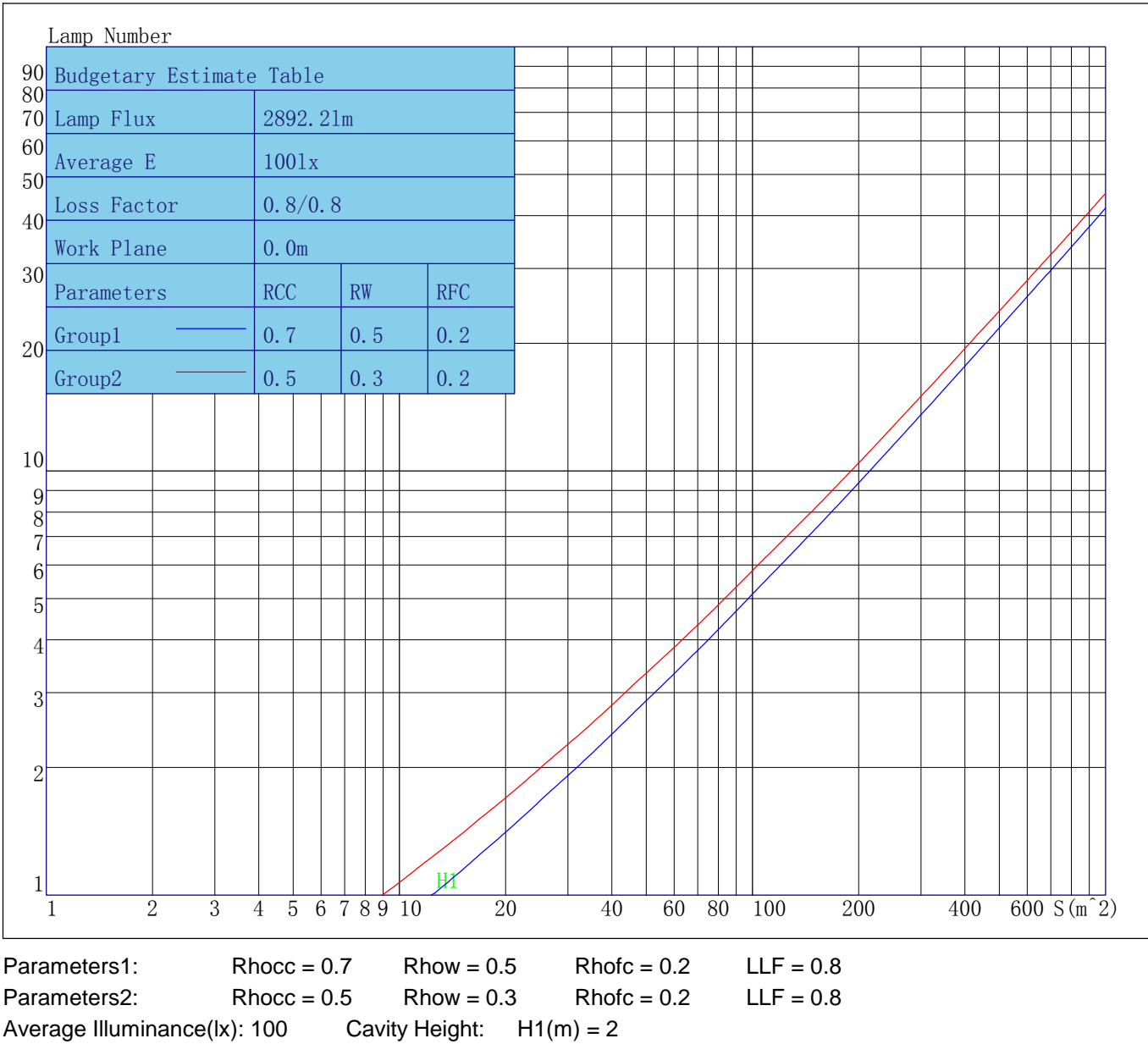
Luminance Limiting Curve



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 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26



Indoor Coefficient of Utilization Table

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

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	106	106	106	106	103	103	103	103	97	97	97	92	92	92	87	87	87	85
1	96	91	87	83	93	89	85	81	84	81	78	79	77	74	75	73	71	69
2	87	79	72	67	84	77	71	66	73	68	63	69	65	61	65	62	59	57
3	79	69	61	55	76	67	60	54	64	58	53	60	55	51	57	53	50	47
4	72	61	53	46	70	59	52	46	56	50	45	54	48	43	51	46	42	40
5	66	54	46	40	64	53	45	39	50	44	38	48	42	37	46	41	37	34
6	61	49	40	35	59	48	40	34	45	39	33	43	37	33	41	36	32	30
7	57	44	36	30	55	43	35	30	41	34	29	39	33	29	38	32	28	26
8	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	29	25	23
9	49	37	29	24	47	36	29	24	35	28	24	33	27	23	32	27	23	21
10	46	34	27	22	45	33	26	22	32	26	21	31	25	21	30	24	21	19

Unified Glare Rating Table

Lum. Name: LED365 (3000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

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	14.8	18.4	15.8	19.3	20.3	15.6	19.1	16.6	20.1	21.0
	Y=3H	19.0	22.5	20.0	23.5	24.4	20.3	23.9	21.3	24.9	25.8
	Y=4H	21.6	24.7	22.6	25.7	26.7	23.4	26.5	24.4	27.5	28.4
	Y=6H	23.4	26.4	24.4	27.4	28.3	25.6	28.6	26.6	29.6	30.6
	Y=8H	24.2	27.2	25.2	28.2	29.1	26.6	29.6	27.7	30.6	31.6
	Y=12H	25.1	28.1	26.1	29.1	30.0	27.8	30.8	28.8	31.8	32.7
X=4H	Y=2H	16.5	19.6	17.5	20.6	21.6	16.9	20.0	17.9	21.0	22.0
	Y=3H	20.9	24.1	22.0	25.0	26.0	21.9	25.0	22.9	26.0	27.0
	Y=4H	22.1	24.1	23.4	25.3	26.5	23.5	25.5	24.8	26.7	27.9
	Y=6H	24.4	26.2	25.7	27.4	28.6	26.3	28.0	27.6	29.3	30.4
	Y=8H	25.6	27.3	26.9	28.5	29.7	27.7	29.4	29.0	30.6	31.8
	Y=12H	26.0	27.4	27.4	28.8	30.0	28.4	29.8	29.8	31.2	32.4
X=8H	Y=4H	22.7	24.5	24.1	25.7	26.9	24.0	25.7	25.3	26.9	28.1
	Y=6H	24.6	25.8	26.0	27.2	28.4	26.2	27.4	27.6	28.8	30.0
	Y=8H	25.6	26.6	27.1	28.0	29.3	27.4	28.4	28.9	29.8	31.2
	Y=12H	27.3	28.2	28.8	29.7	31.0	29.5	30.4	30.9	31.8	33.1
X=12H	Y=4H	22.0	23.4	23.4	24.7	26.0	23.1	24.6	24.5	25.9	27.2
	Y=6H	24.3	25.3	25.8	26.7	28.1	25.8	26.8	27.3	28.3	29.6
	Y=8H	25.9	26.8	27.4	28.2	29.6	27.6	28.5	29.1	30.0	31.3
Variations with the objerver position at spacings											
S=1.0H		2.5/-0.7					2.4/-1.4				
S=1.5H		-0.7/-18.6					-1.4/-20.0				
S=2.0H		-0.7/-18.6					-1.4/-20.0				

IES Indoor Report  
Photometric Filename: LED365 (3000K 24W)

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	866.48	866.48	866.48	866.48	866.48	866.48	866.48	866.48	866.48	866.48	866.48	866.48
γ 10.0	841.41	842.53	846.55	851.84	857.36	861.76	865.71	864.21	861.00	856.59	851.95	848.38
γ 20.0	790.19	792.70	800.64	811.24	822.04	830.59	840.36	837.55	830.46	820.83	810.91	803.06
γ 30.0	713.20	717.17	728.64	744.42	760.34	772.93	788.23	784.23	773.30	758.69	743.51	731.60
γ 40.0	612.61	617.95	632.72	653.22	673.73	689.94	710.50	705.39	691.04	671.78	651.72	636.14
γ 50.0	491.39	497.82	515.66	540.16	564.87	584.08	609.40	603.18	585.99	562.48	538.25	519.12
γ 60.0	353.23	360.78	380.63	408.51	436.38	458.47	487.39	480.43	460.63	433.67	405.89	384.26
γ 70.0	210.54	217.87	237.18	265.43	294.14	317.43	348.68	341.39	320.10	291.63	262.64	240.81
γ 80.0	99.09	103.88	116.92	137.09	159.42	178.31	205.96	199.04	180.97	157.11	135.08	118.87
γ 90.0	46.68	48.36	52.77	60.66	70.66	80.23	95.54	91.58	81.52	69.58	59.81	53.32
γ 100.0	36.04	35.94	36.09	36.86	38.29	40.47	44.46	43.26	40.48	38.16	36.81	36.31
γ 110.0	25.00	30.51	29.49	30.68	30.85	32.38	26.66	32.83	32.23	31.77	30.67	31.39
γ 120.0	20.51	25.18	22.05	20.34	23.12	27.47	22.89	27.87	24.72	22.36	23.72	26.25
γ 130.0	19.37	19.89	16.25	15.83	18.41	22.18	22.84	23.08	19.02	16.77	17.68	20.96
γ 140.0	13.97	14.51	12.10	12.34	14.44	17.12	18.08	17.91	14.86	12.49	13.11	15.39
γ 150.0	9.43	9.94	8.93	8.53	10.88	12.51	13.38	13.26	11.17	8.39	9.70	10.73
γ 160.0	6.77	7.00	6.90	6.84	7.85	8.49	9.14	9.13	8.30	6.86	7.35	7.43
γ 170.0	6.64	6.61	6.55	6.53	6.39	6.39	6.64	6.66	6.59	6.55	6.58	6.69
γ 180.0	6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64