

Indoor Luminaire Photometric Data

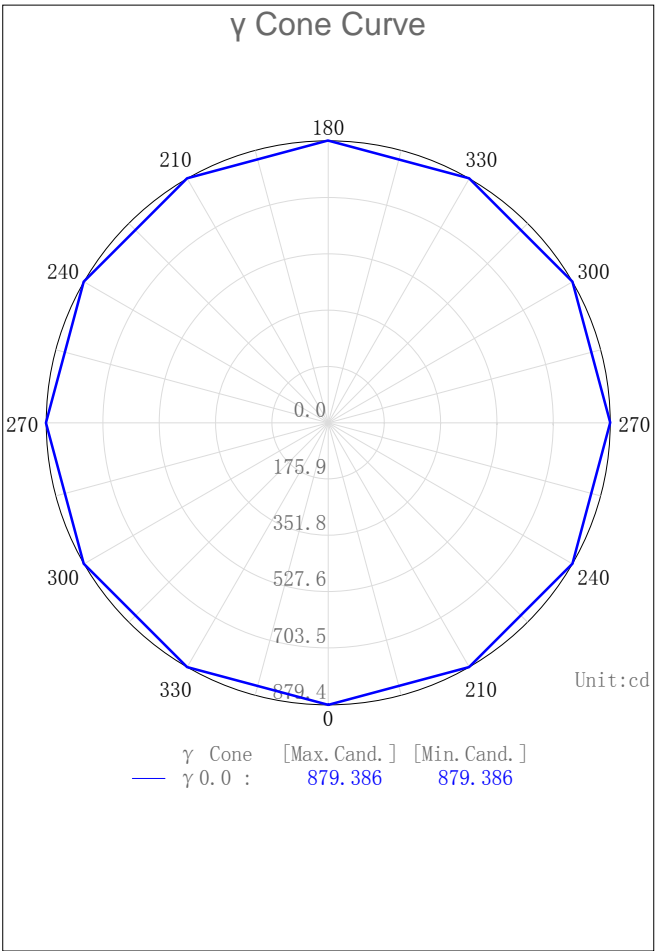
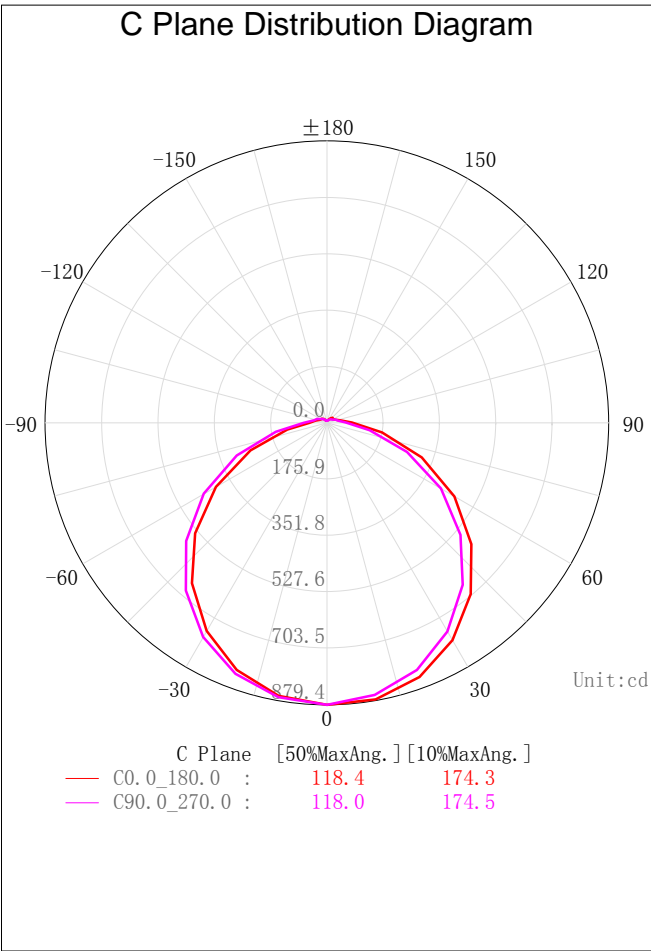
Description Information

Luminary Name: LED365 (4000K 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

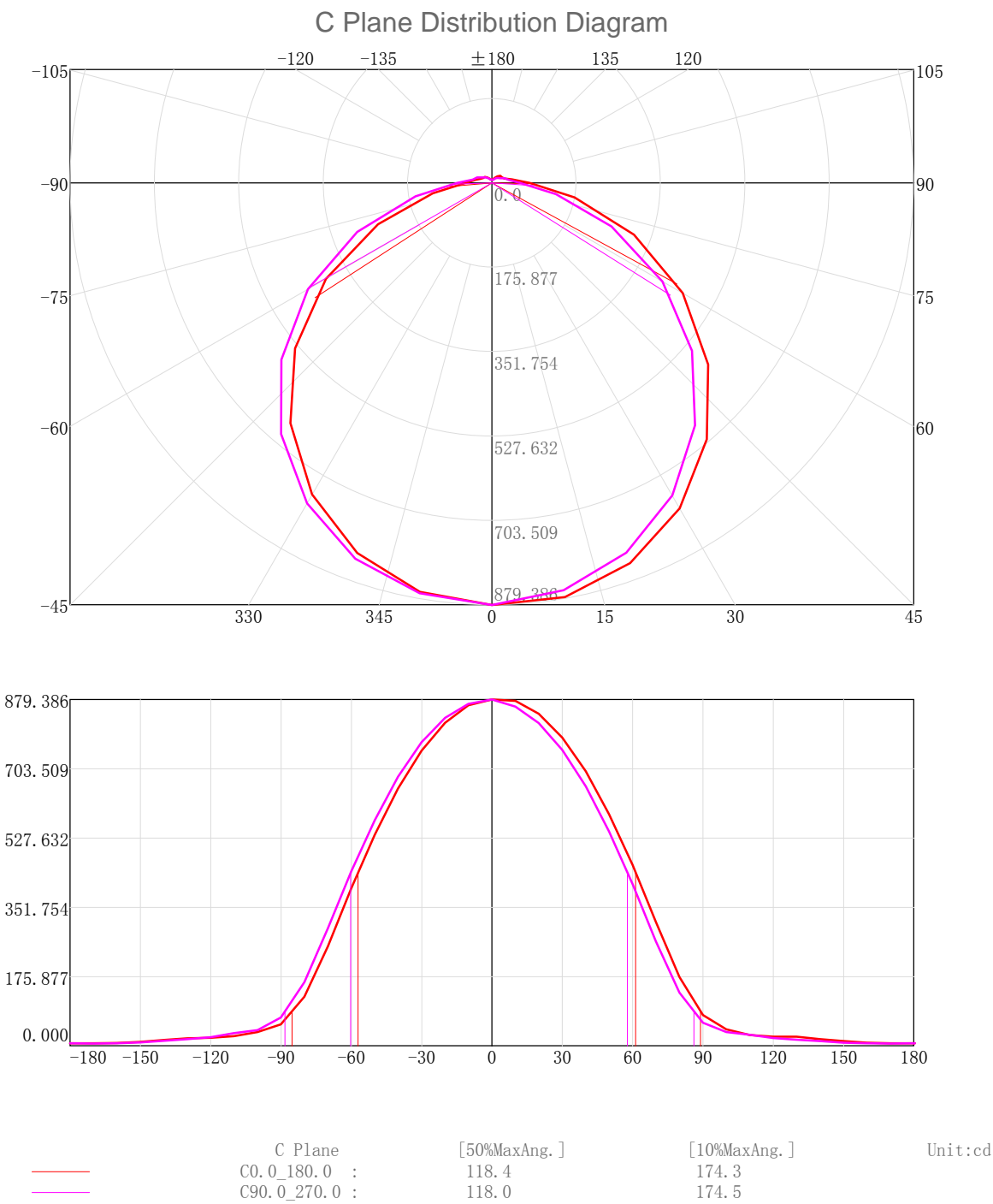
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3200.000	Luminary Flux(lm): 2928.230	Field Angle(10%Imax): 174.3(°)
Rated Power(W):	Luminary Efficiency: 91.51%	Down Lumens&Percent: 2760.256lm 94.26%
Rated Voltage(V):	Luminary EER(lm/W): 120.009	Up Lumens&Percent: 167.974lm 5.74%
Tested Power(W): 24.400	Max. Candela(cd): 879.386	S/MH: C0_a180=1.298 C90_270=1.291
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, 0.934	Beam Angle(50%Imax): 118.4(°)	ErP Φuse(120°): 2053.356lm
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-57.0°, Right=61.4°	IRF (%): 102.144

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

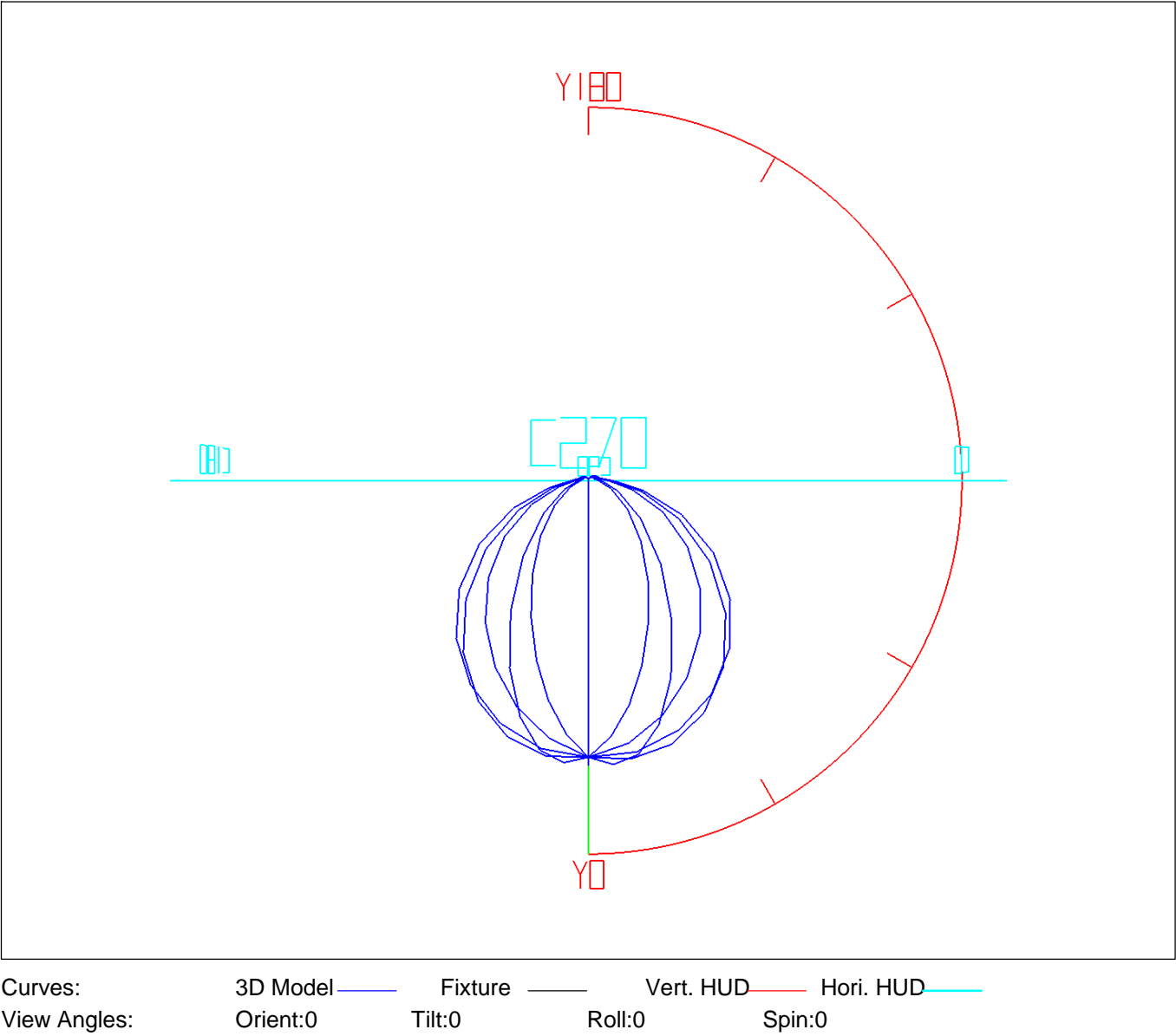
Lum. Name: LED365 (4000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26



3D Light Intensity Distribution Modal

Lum. Name: LED365 (4000K 24W)	Lum. Catalog:	Test ID: 20230426
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3D Light Intensity Distribution Modal

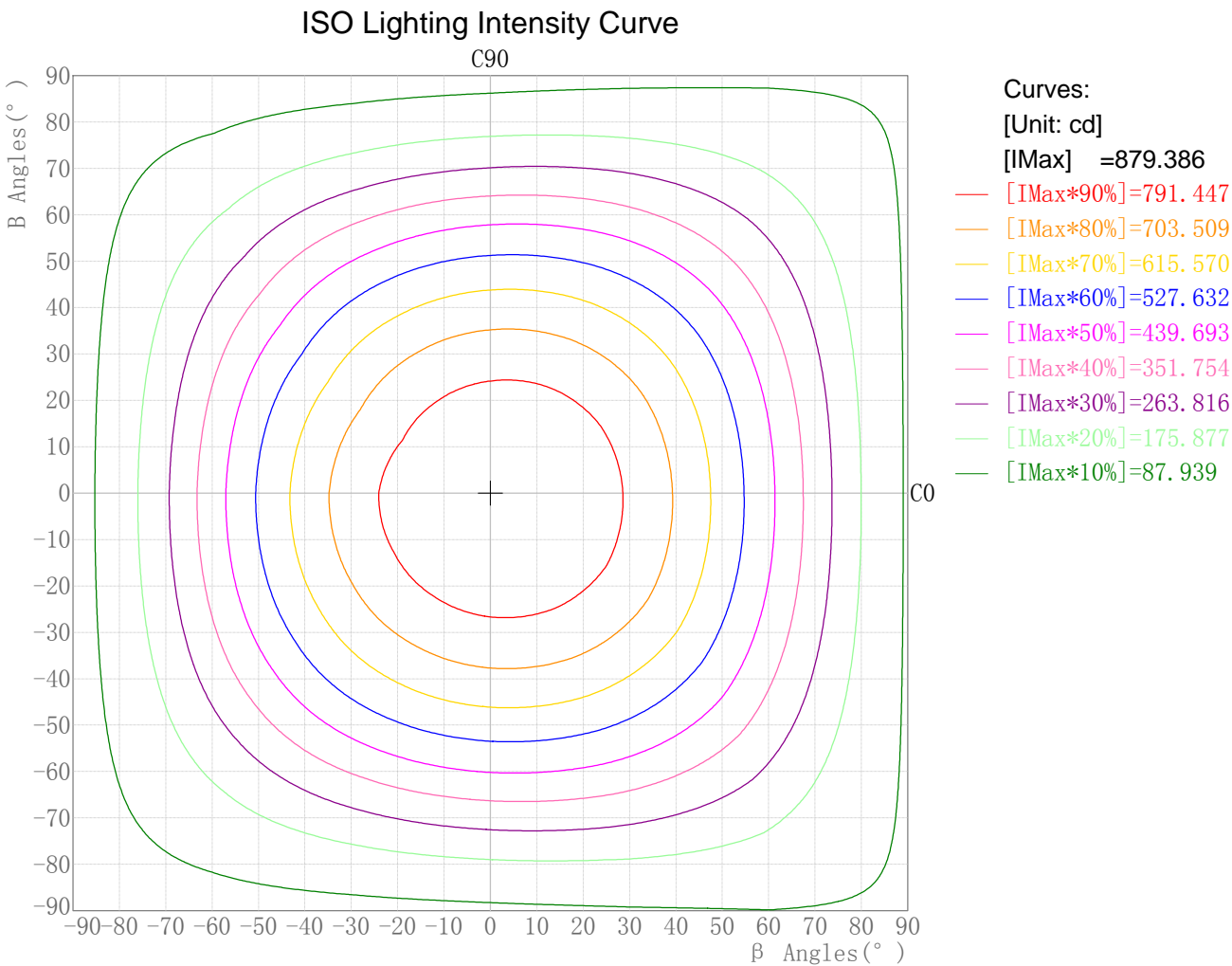


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	83. 31	83. 31	2. 60	2. 60
10. 0-20. 0	240. 07	323. 38	7. 50	10. 11
20. 0-30. 0	367. 97	691. 35	11. 50	21. 60
30. 0-40. 0	450. 55	1141. 90	14. 08	35. 68
40. 0-50. 0	476. 83	1618. 73	14. 90	50. 59
50. 0-60. 0	442. 55	2061. 28	13. 83	64. 41
60. 0-70. 0	352. 33	2413. 61	11. 01	75. 43
70. 0-80. 0	228. 70	2642. 30	7. 15	82. 57
80. 0-90. 0	117. 95	2760. 26	3. 69	86. 26
90. 0-100. 0	57. 14	2817. 39	1. 79	88. 04
100. 0-110. 0	36. 19	2853. 58	1. 13	89. 17
110. 0-120. 0	26. 81	2880. 39	0. 84	90. 01
120. 0-130. 0	19. 47	2899. 86	0. 61	90. 62
130. 0-140. 0	13. 38	2913. 24	0. 42	91. 04
140. 0-150. 0	8. 07	2921. 31	0. 25	91. 29
150. 0-160. 0	4. 26	2925. 57	0. 13	91. 42
160. 0-170. 0	2. 02	2927. 59	0. 06	91. 49
170. 0-180. 0	0. 64	2928. 23	0. 02	91. 51

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED365 (4000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

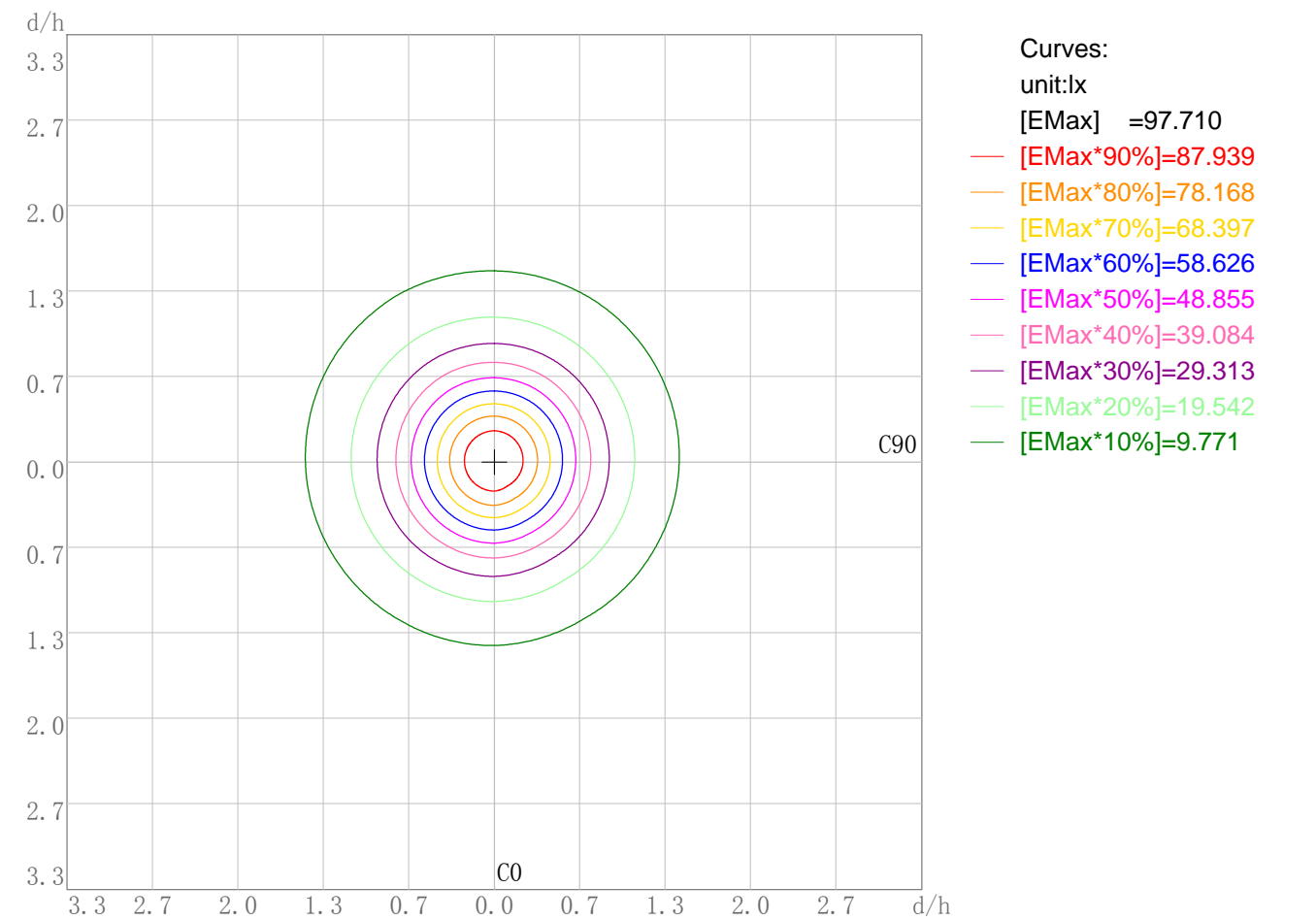


Maximum Light Intensity(cd): 879.39
Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED365 (4000K 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

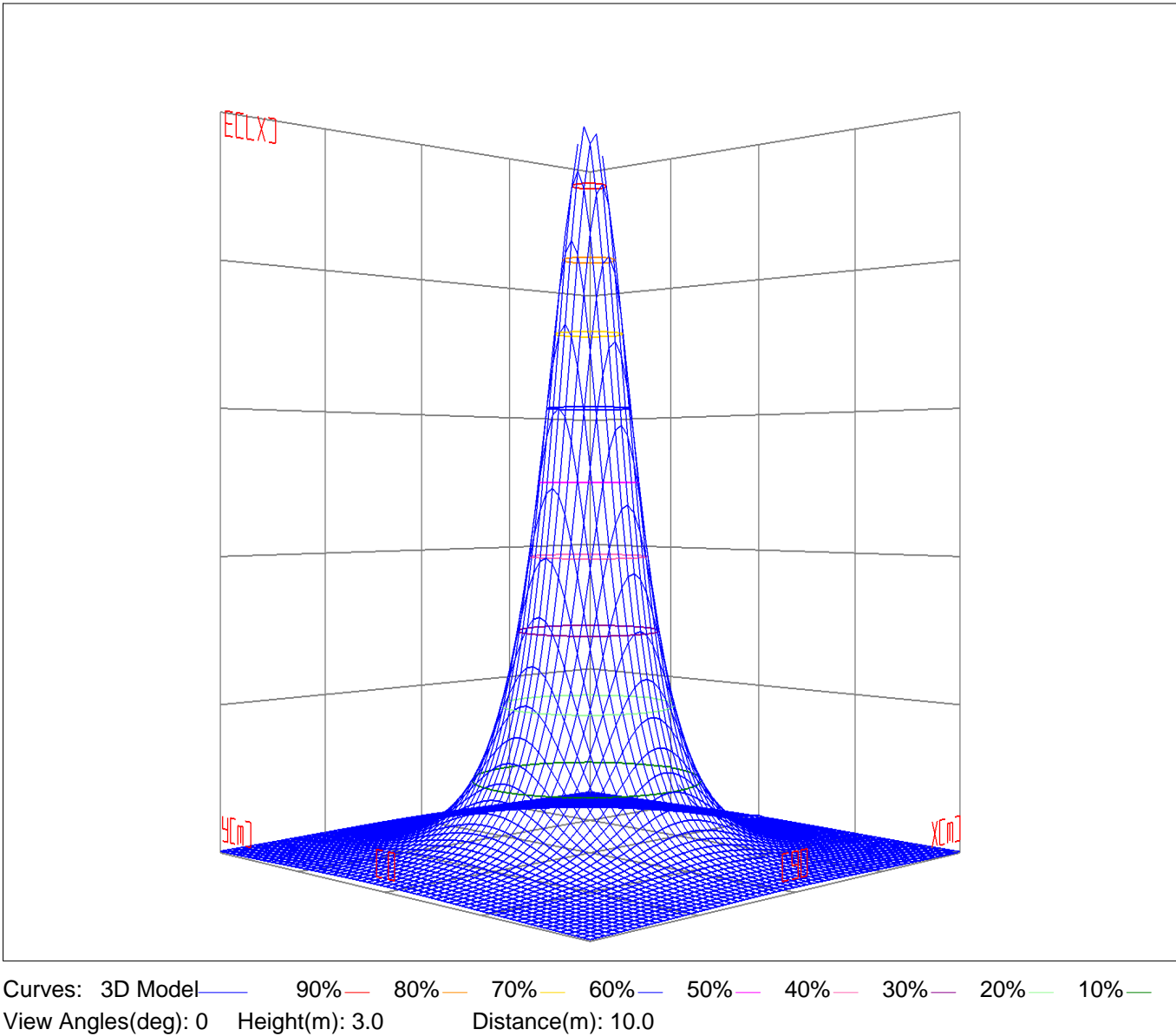


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 97.71
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (4000K 24W)	Lum. Catelog:	Test ID: 20230426
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

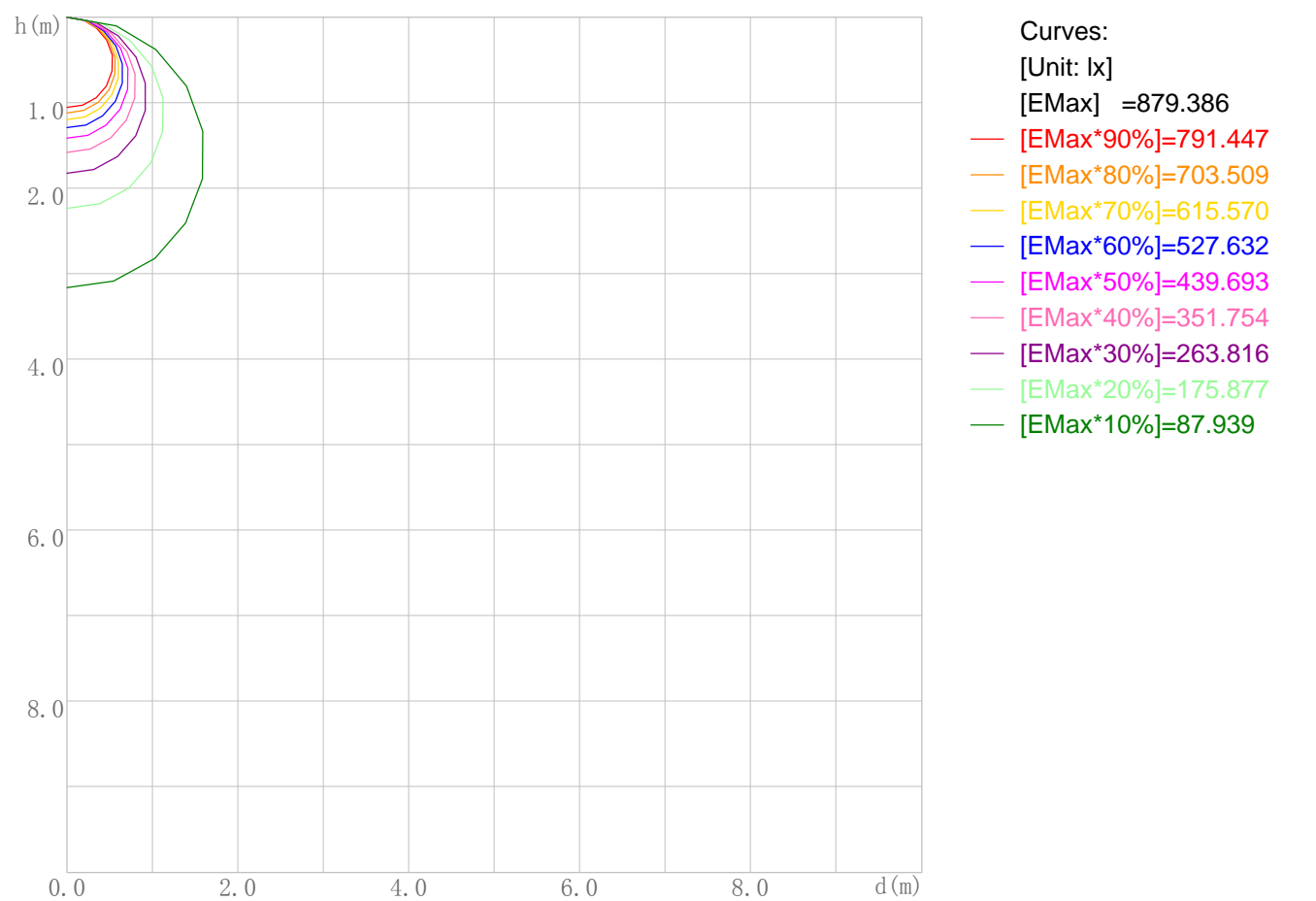
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (4000K 24W)	Lum. Catelog:	Test ID: 20230426
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

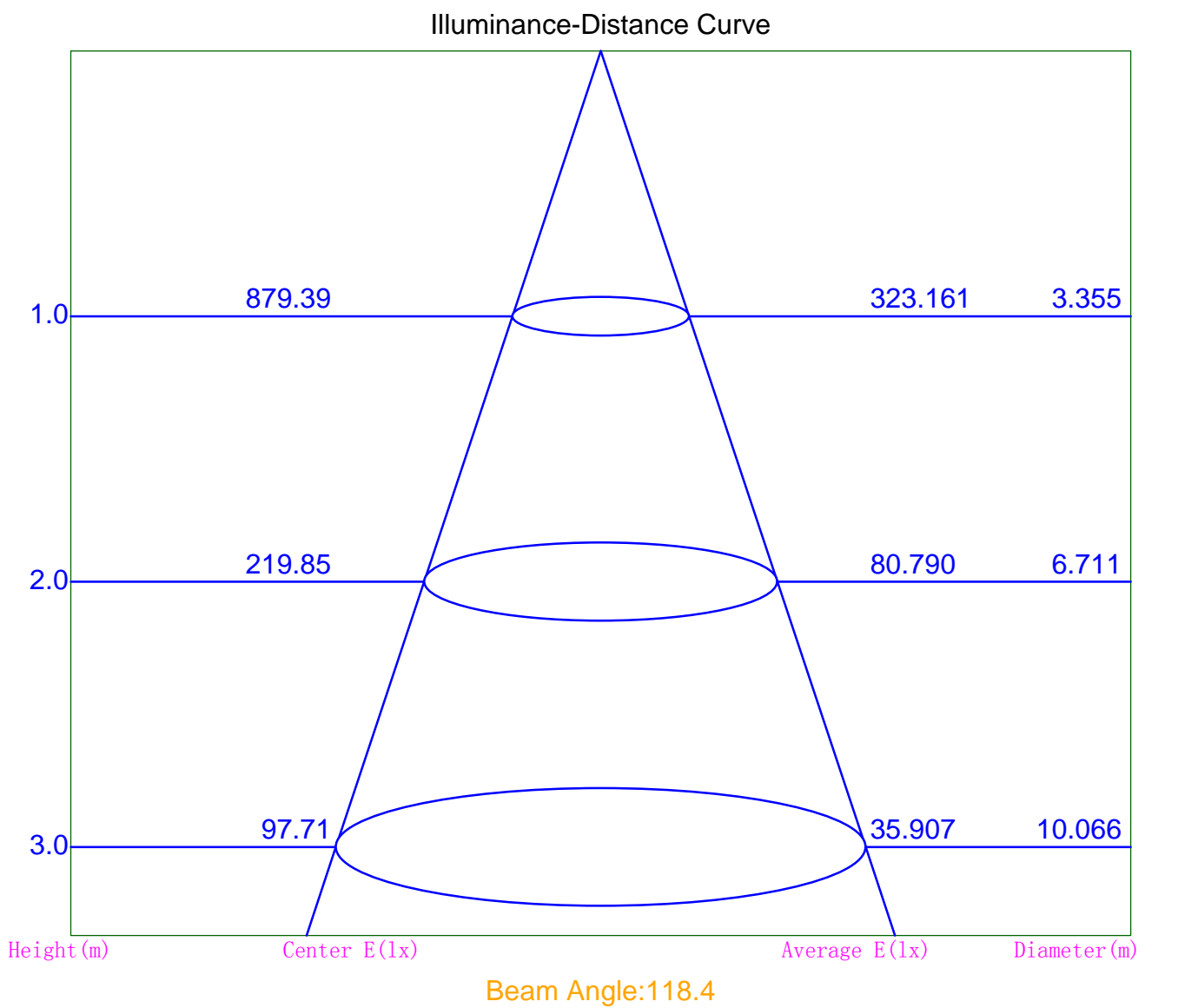
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:879.39lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:879.386cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED365 (4000K 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 (4000K 24W)	Lum. Catalog:	Test ID: 20230426
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/26

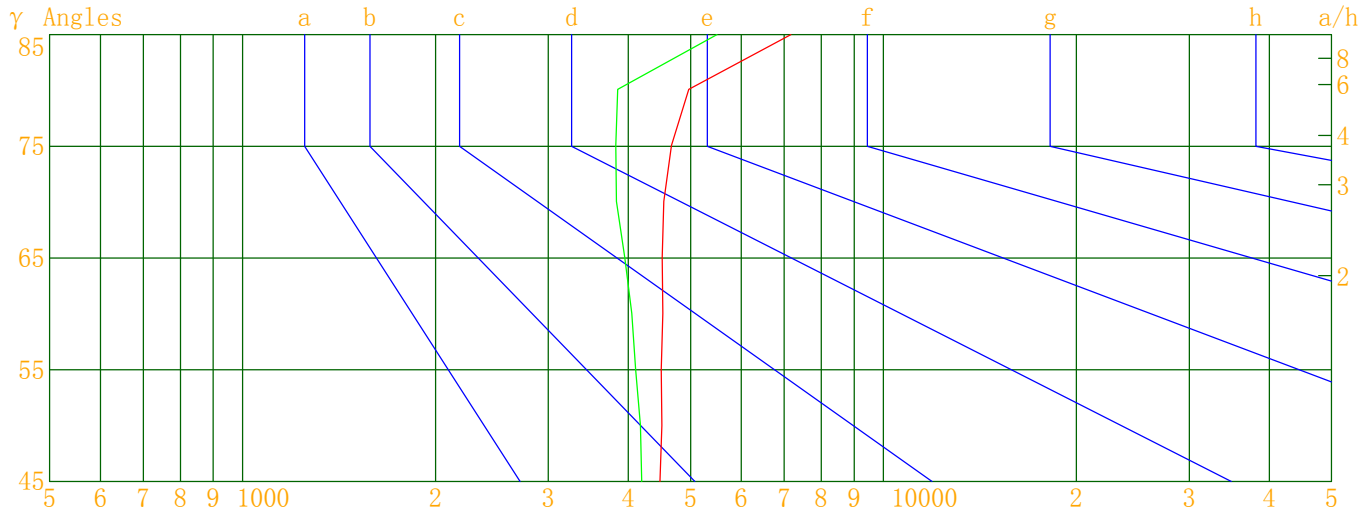
Glare Grade Table

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	4482	4513	4503	4529	4518	4543	4668	4967	7169
C90	4195	4175	4105	4050	3945	3829	3821	3847	5500

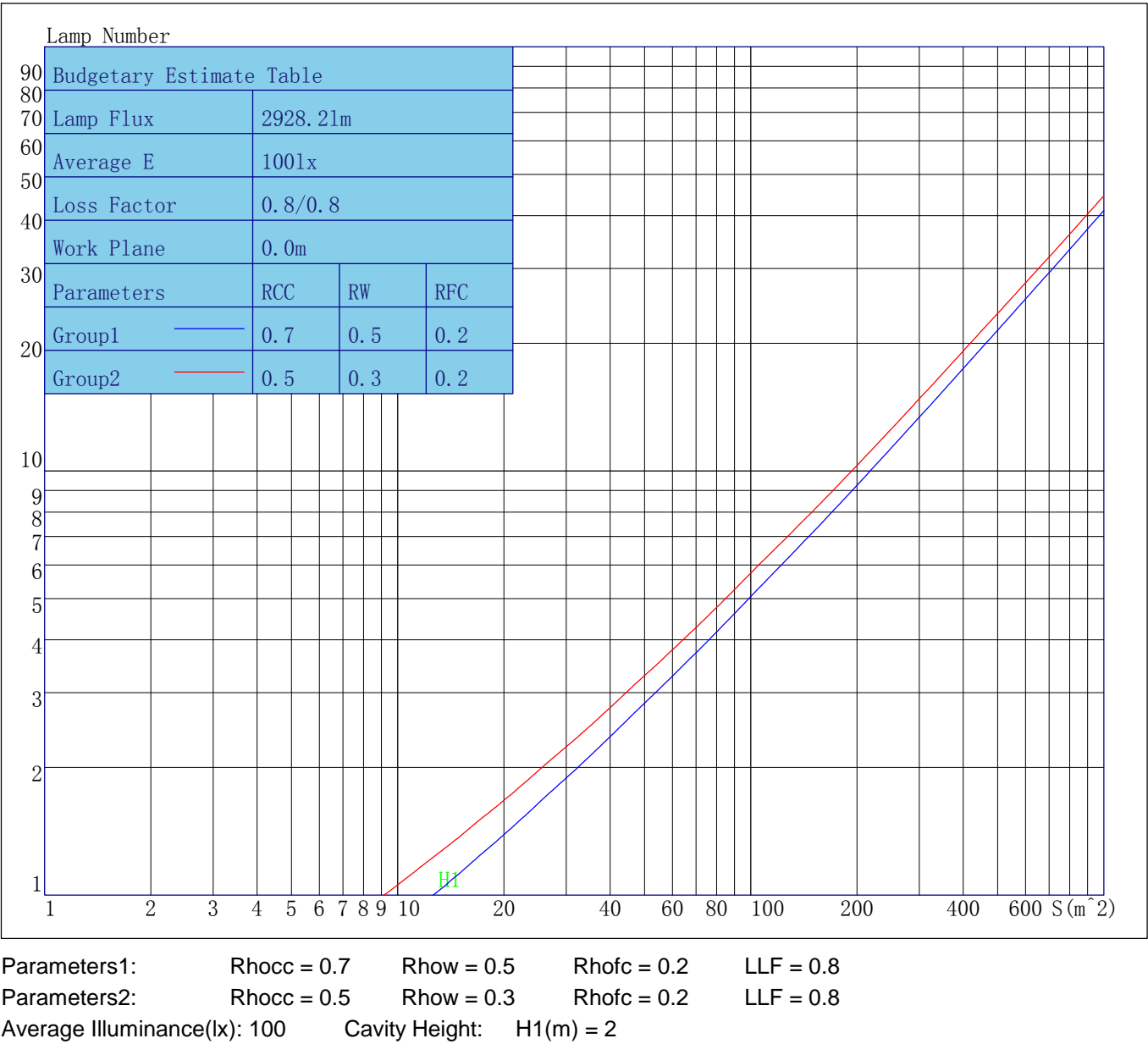
Luminance Limiting Curve



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 (4000K 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 (4000K 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	108	108	108	108	105	105	105	105	99	99	99	93	93	93	89	89	89	86
1	97	92	88	84	94	90	86	82	85	82	79	80	78	75	76	74	72	70
2	88	80	73	68	85	78	72	67	74	69	64	70	66	62	66	63	60	57
3	80	70	62	56	77	68	61	55	65	58	53	61	56	52	58	54	50	48
4	73	62	53	47	71	60	52	46	57	50	45	54	49	44	52	47	43	41
5	67	55	47	40	65	54	46	40	51	44	39	49	43	38	46	41	37	35
6	62	49	41	35	60	48	40	35	46	39	34	44	38	33	42	37	32	30
7	57	45	36	31	55	44	36	30	42	35	30	40	34	29	38	33	29	27
8	53	41	33	27	52	40	32	27	38	31	27	37	31	26	35	30	26	24
9	50	37	30	24	48	37	29	24	35	28	24	34	28	23	32	27	23	21
10	47	34	27	22	45	34	27	22	32	26	22	31	25	21	30	25	21	19

Unified Glare Rating Table

Lum. Name: LED365 (4000K 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	17.6	21.1	18.6	22.1	23.0	17.0	20.6	18.0	21.5	22.5
	22.8	26.4	23.8	27.4	28.3	21.8	25.4	22.8	26.3	27.2
	26.1	29.3	27.2	30.3	31.2	24.8	27.9	25.8	28.9	29.8
	28.7	31.7	29.7	32.7	33.6	26.9	29.9	27.9	30.9	31.9
	29.9	32.9	30.9	33.9	34.8	27.9	30.9	28.9	31.9	32.8
	31.2	34.1	32.2	35.1	36.1	28.9	31.9	29.9	32.9	33.8
X=4H Y=2H	19.2	22.3	20.2	23.3	24.3	18.9	22.1	20.0	23.0	24.0
	24.8	27.9	25.8	28.9	29.8	24.0	27.1	25.0	28.1	29.1
	26.6	28.6	27.9	29.8	31.0	25.6	27.6	26.9	28.8	30.0
	29.8	31.6	31.1	32.8	34.0	28.3	30.1	29.6	31.3	32.5
	31.4	33.1	32.7	34.3	35.5	29.7	31.4	31.0	32.6	33.8
	32.2	33.6	33.6	35.0	36.3	30.2	31.6	31.6	33.0	34.3
X=8H Y=4H	27.2	28.9	28.5	30.1	31.3	26.4	28.0	27.7	29.3	30.5
	29.9	31.1	31.3	32.4	33.7	28.7	29.9	30.1	31.2	32.5
	31.3	32.3	32.8	33.7	35.1	29.9	30.9	31.4	32.3	33.6
	33.5	34.4	35.0	35.9	37.2	31.8	32.7	33.3	34.1	35.5
X=12H Y=4H	26.4	27.8	27.8	29.2	30.4	25.6	27.0	27.0	28.3	29.6
	29.5	30.5	31.0	32.0	33.3	28.4	29.4	29.9	30.8	32.2
	31.6	32.5	33.1	33.9	35.2	30.2	31.1	31.7	32.6	33.9
Variations with the objerver position at spacings										
S=1.0H	2.2/-1.4					2.3/-0.8				
S=1.5H	-1.4/-19.0					-0.8/-17.9				
S=2.0H	-1.4/-19.0					-0.8/-17.9				

IES Indoor Report
Photometric Filename: LED365 (4000K 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	879.39	879.39	879.39	879.39	879.39	879.39	879.39	879.39	879.39	879.39	879.39	879.39
γ 10.0	876.07	871.94	866.85	861.59	857.28	854.37	864.98	864.04	865.53	868.23	870.85	872.50
γ 20.0	843.05	837.77	829.29	819.82	811.68	806.40	820.54	821.12	826.01	833.00	839.50	843.43
γ 30.0	782.94	776.64	765.09	751.71	739.86	732.33	749.33	751.45	759.66	770.70	781.03	787.24
γ 40.0	697.18	689.92	675.78	658.99	643.82	634.26	653.62	657.29	668.47	683.36	696.75	705.46
γ 50.0	588.28	580.32	564.18	544.20	526.18	514.62	535.96	540.84	554.88	572.87	589.50	600.14
γ 60.0	459.24	450.94	432.75	410.70	390.36	377.24	399.40	405.64	421.83	442.64	461.76	474.24
γ 70.0	315.14	307.00	288.14	265.61	244.71	231.65	252.72	259.93	276.58	298.72	319.05	332.77
γ 80.0	174.91	168.22	153.15	135.48	120.28	111.13	125.31	131.31	144.71	161.92	179.21	190.62
γ 90.0	78.52	75.37	67.58	58.95	52.35	49.10	54.62	57.47	63.71	72.41	81.16	87.08
γ 100.0	42.09	40.24	37.73	35.12	33.44	33.54	35.46	36.17	37.85	40.46	42.60	43.83
γ 110.0	27.50	32.92	30.11	28.65	26.93	28.70	24.74	30.55	30.50	32.96	33.62	35.25
γ 120.0	23.63	28.01	22.75	19.82	20.60	23.93	20.57	25.48	22.77	22.38	25.65	30.19
γ 130.0	23.32	22.81	18.02	15.72	16.00	19.08	19.71	20.53	17.38	17.39	20.43	24.72
γ 140.0	17.71	17.41	14.10	12.32	12.12	14.24	14.99	15.56	13.08	13.39	15.76	18.80
γ 150.0	12.58	12.47	10.72	8.48	9.16	10.06	10.64	10.90	9.71	9.10	11.61	13.46
γ 160.0	8.36	8.47	7.75	6.87	6.93	7.00	7.39	7.39	7.23	7.14	8.32	8.98
γ 170.0	6.66	6.55	6.56	6.59	6.56	6.60	6.71	6.71	6.71	6.57	6.73	6.63
γ 180.0	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71