

Indoor Luminaire Photometric Data

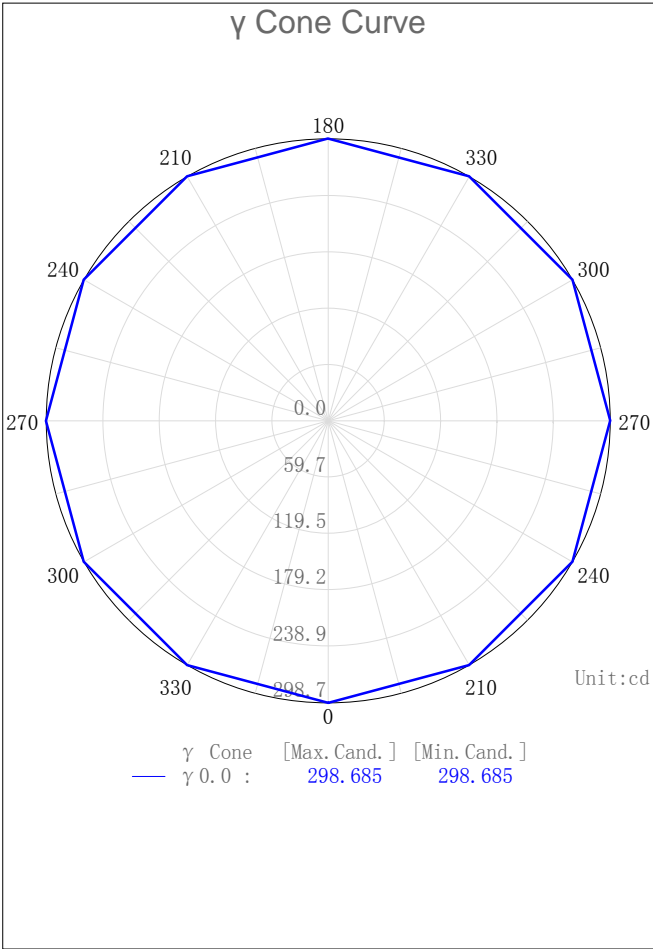
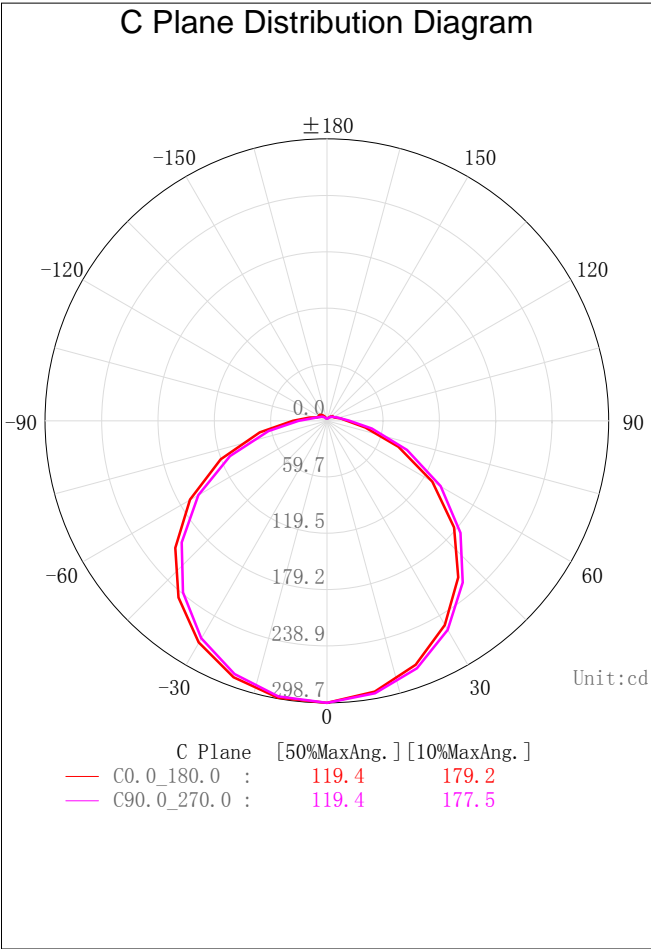
Description Information

Luminary Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Date: 2023/04/24
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.340m*0.340m*0.078m	Lum. Area (m2):0.142	Lum. W (kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=10.0	Temp. (°C): 25
		Humidity (%): 50.0

Character Parameter

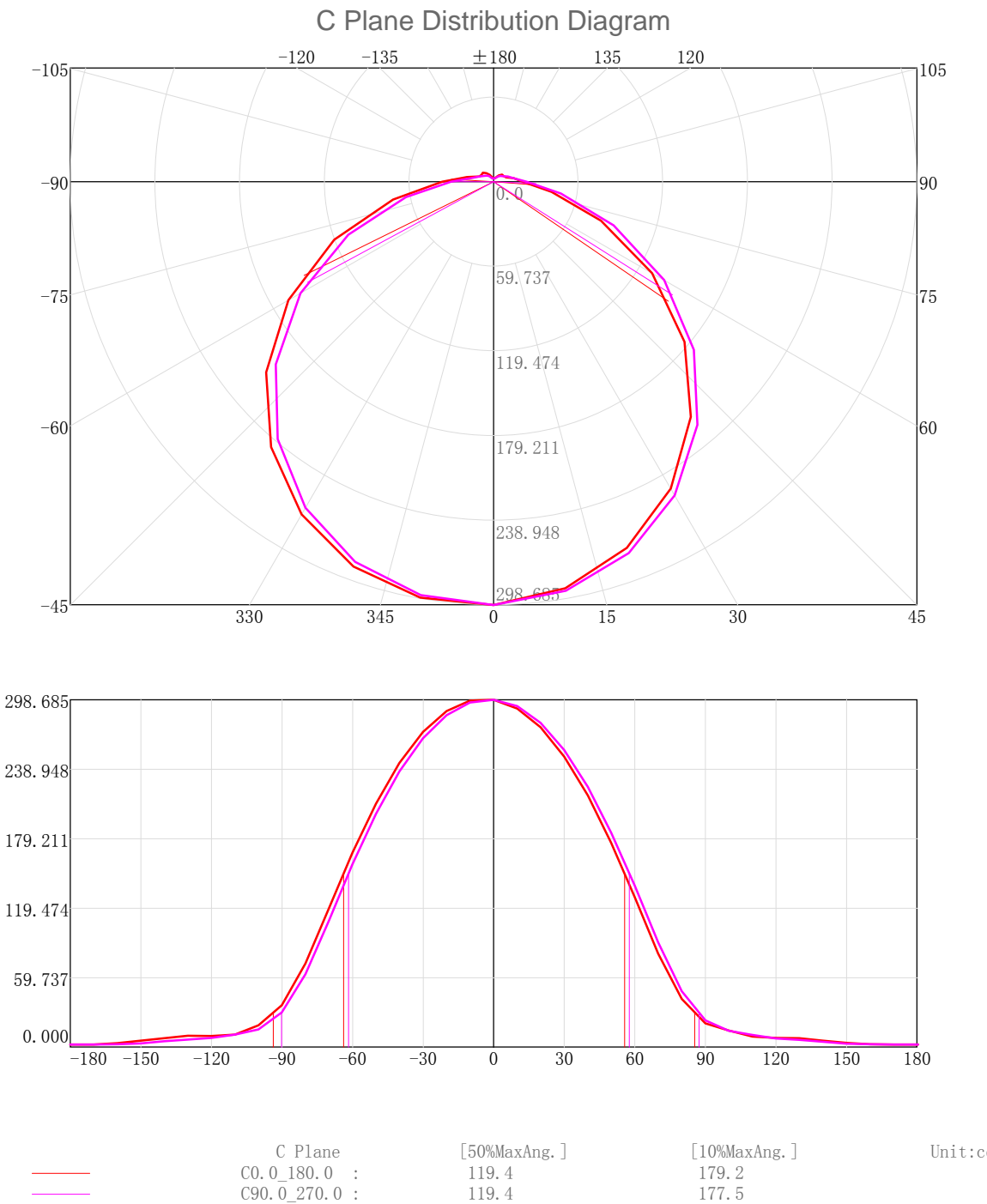
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1050.000	Luminary Flux(lm): 1024.512	Field Angle(10%Imax): 179.2(°)
Rated Power(W):	Luminary Efficiency: 97.57%	Down Lumens&Percent: 957.794lm 93.49%
Rated Voltage(V):	Luminary EER(lm/W): 116.237	Up Lumens&Percent: 66.717lm 6.51%
Tested Power(W): 8.814	Max. Candela(cd): 298.685	S/MH: C0_a180=1.300 C90_270=1.300
Lamps' Inside: 1	Max Cand@Ang. (°):	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.3, 0.044, 0.863	Beam Angle(50%Imax): 119.4(°)	ErP Φuse(120°): 709.241lm
Lamp Size (W*L*H):0.340m*0.340m*0.078m	Left=-63.8° , Right=55.7°	IRF (%): 107.264

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

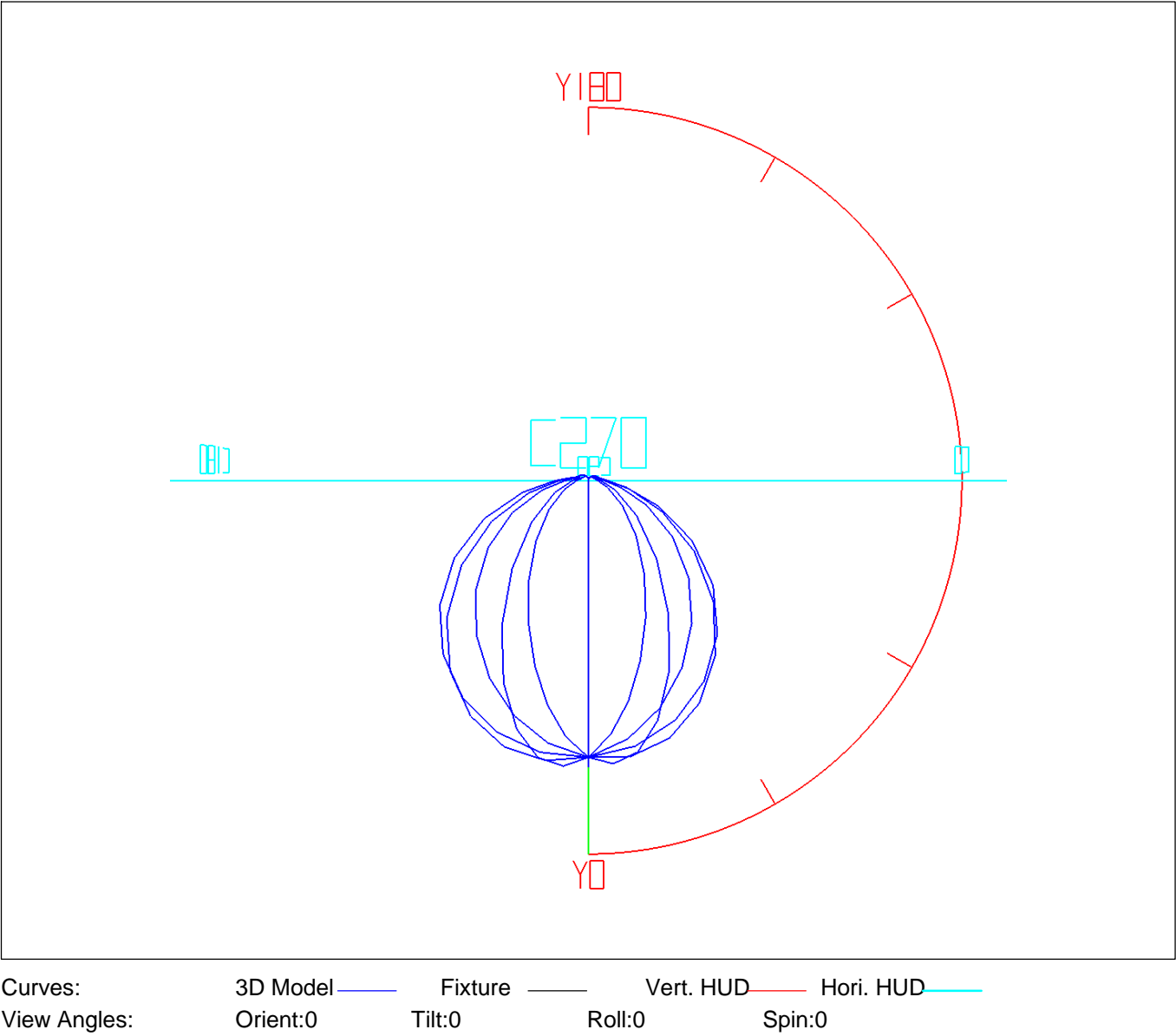
Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



3D Light Intensity Distribution Modal

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
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3D Light Intensity Distribution Modal

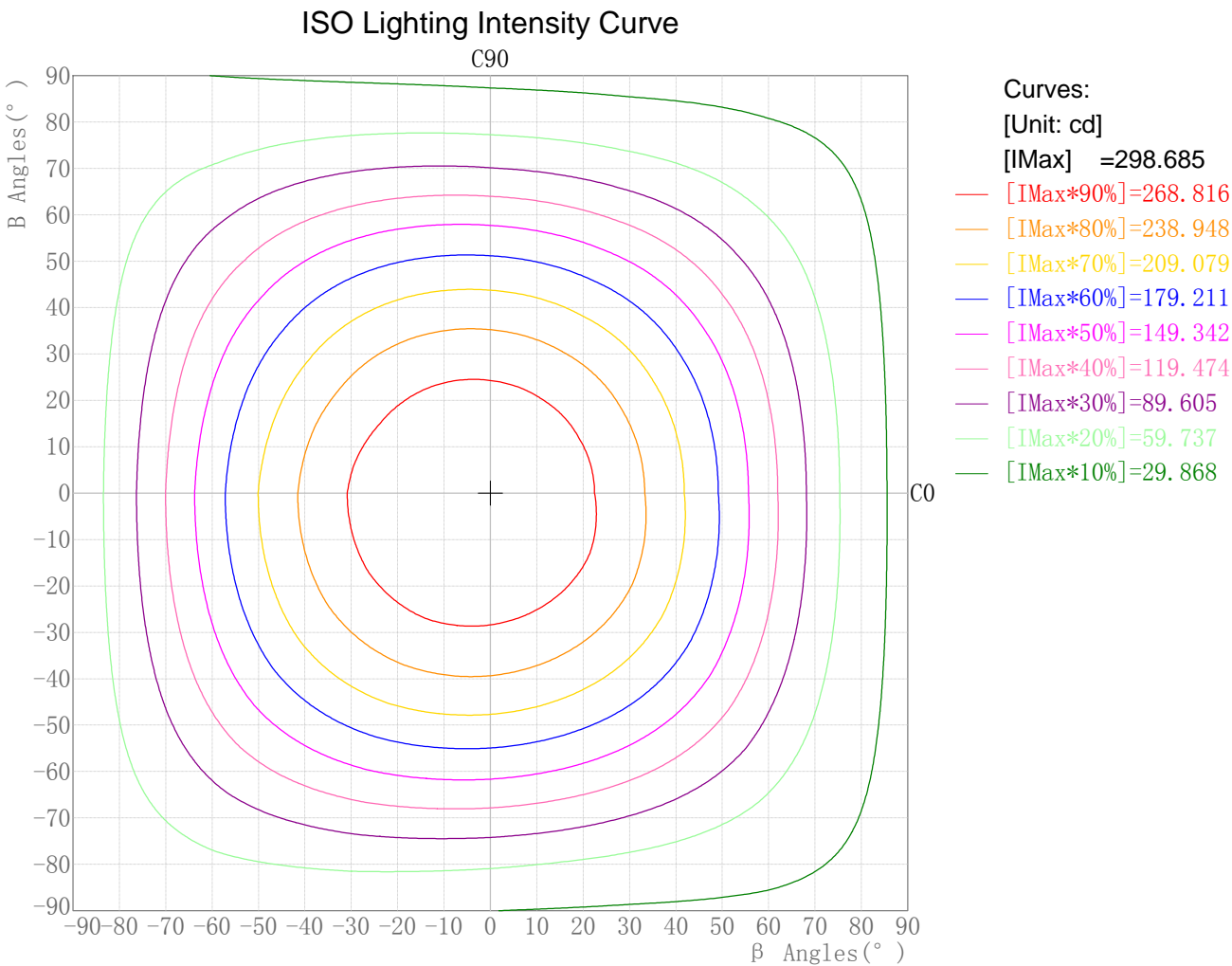


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	28. 32	28. 32	2. 70	2. 70
10. 0-20. 0	81. 76	110. 08	7. 79	10. 48
20. 0-30. 0	125. 62	235. 71	11. 96	22. 45
30. 0-40. 0	154. 27	389. 98	14. 69	37. 14
40. 0-50. 0	163. 86	553. 84	15. 61	52. 75
50. 0-60. 0	152. 90	706. 74	14. 56	67. 31
60. 0-70. 0	123. 13	829. 87	11. 73	79. 04
70. 0-80. 0	82. 47	912. 34	7. 85	86. 89
80. 0-90. 0	45. 46	957. 79	4. 33	91. 22
90. 0-100. 0	23. 31	981. 11	2. 22	93. 44
100. 0-110. 0	14. 12	995. 23	1. 34	94. 78
110. 0-120. 0	10. 23	1005. 46	0. 97	95. 76
120. 0-130. 0	7. 74	1013. 20	0. 74	96. 50
130. 0-140. 0	5. 44	1018. 64	0. 52	97. 01
140. 0-150. 0	3. 25	1021. 89	0. 31	97. 32
150. 0-160. 0	1. 65	1023. 54	0. 16	97. 48
160. 0-170. 0	0. 75	1024. 28	0. 07	97. 55
170. 0-180. 0	0. 23	1024. 51	0. 02	97. 57

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



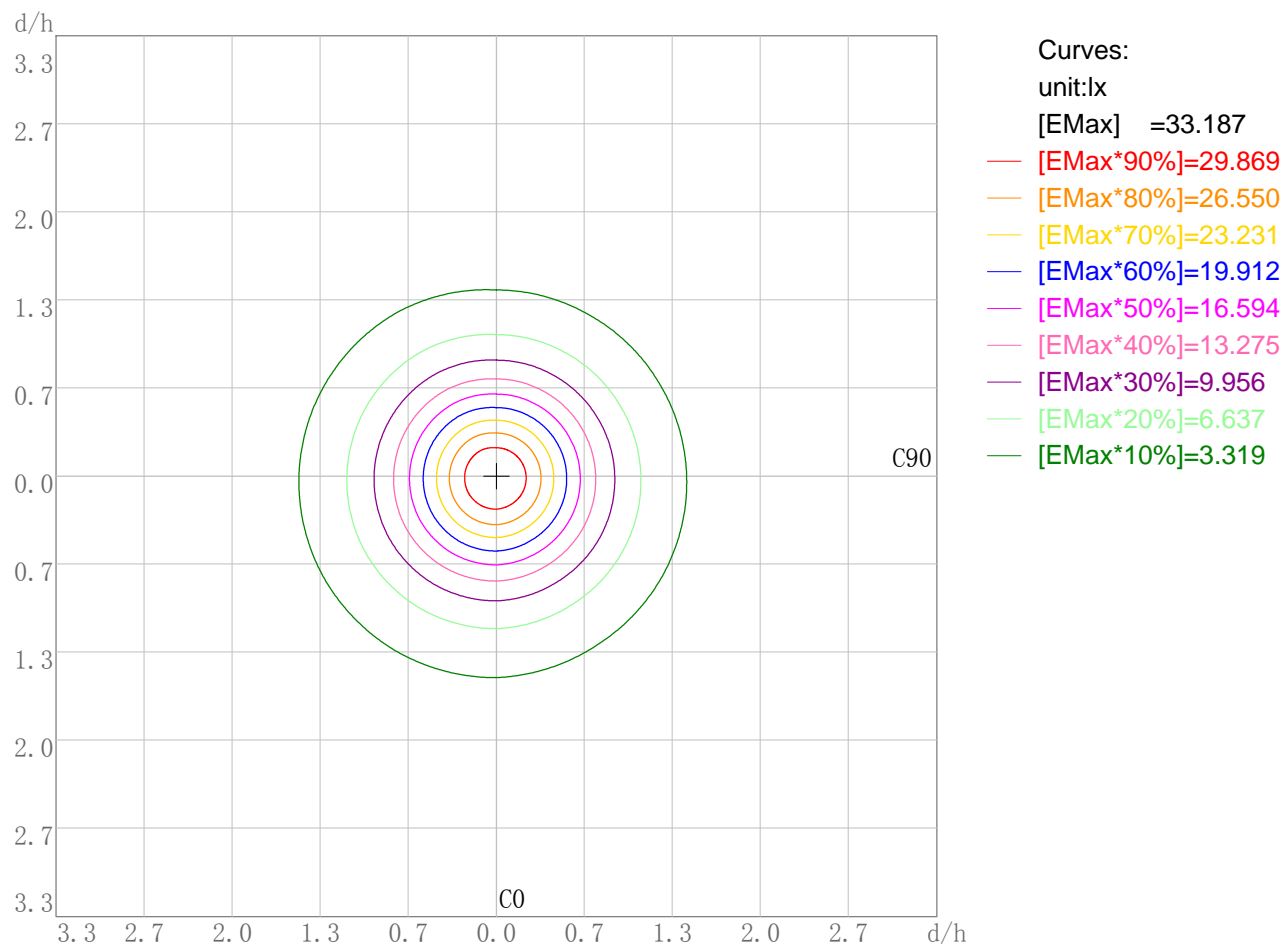
Maximum Light Intensity(cd): 298.68

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

Plane ISO-Illuminance Curve

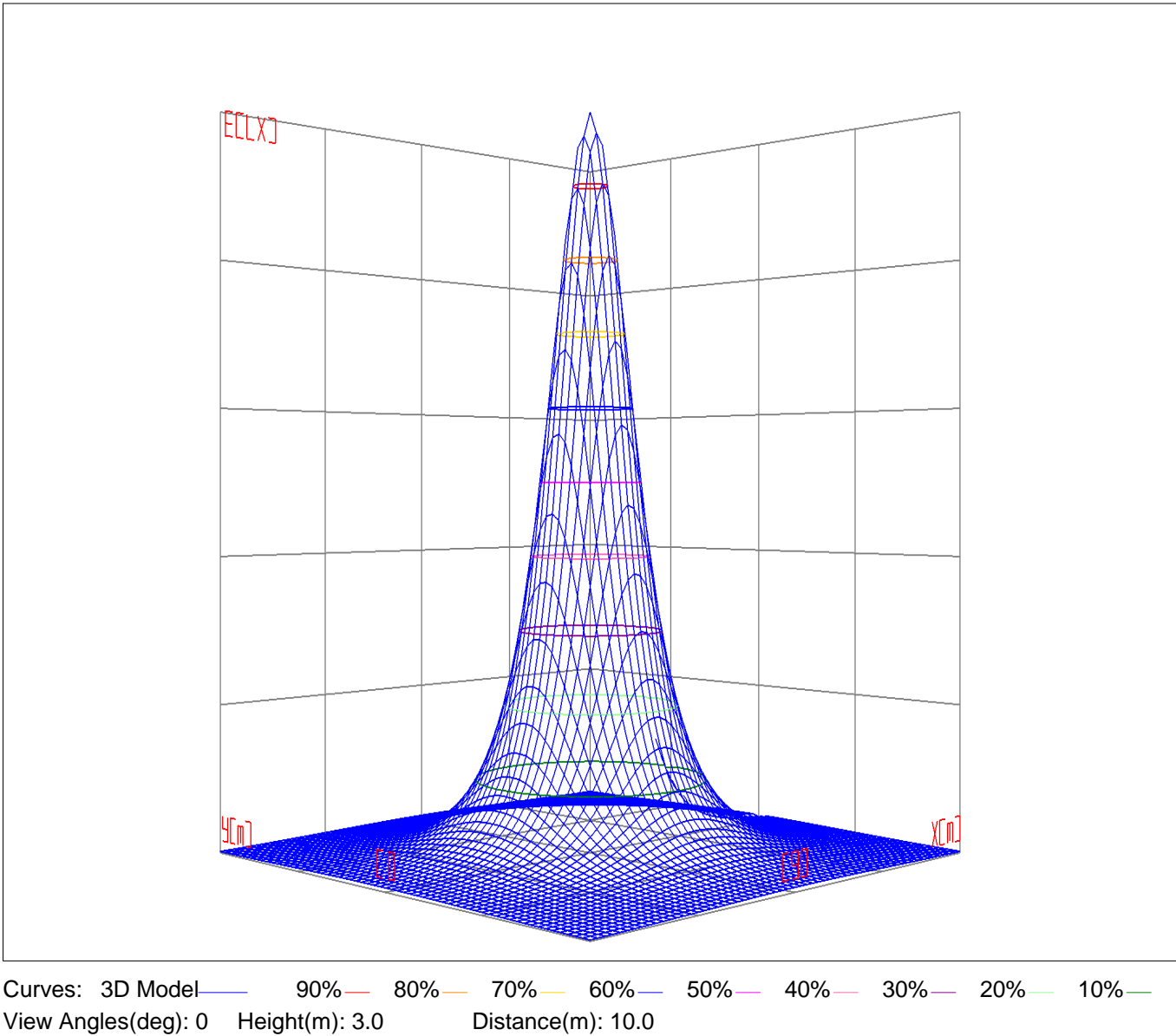


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 33.19
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED364 (3000K 9W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

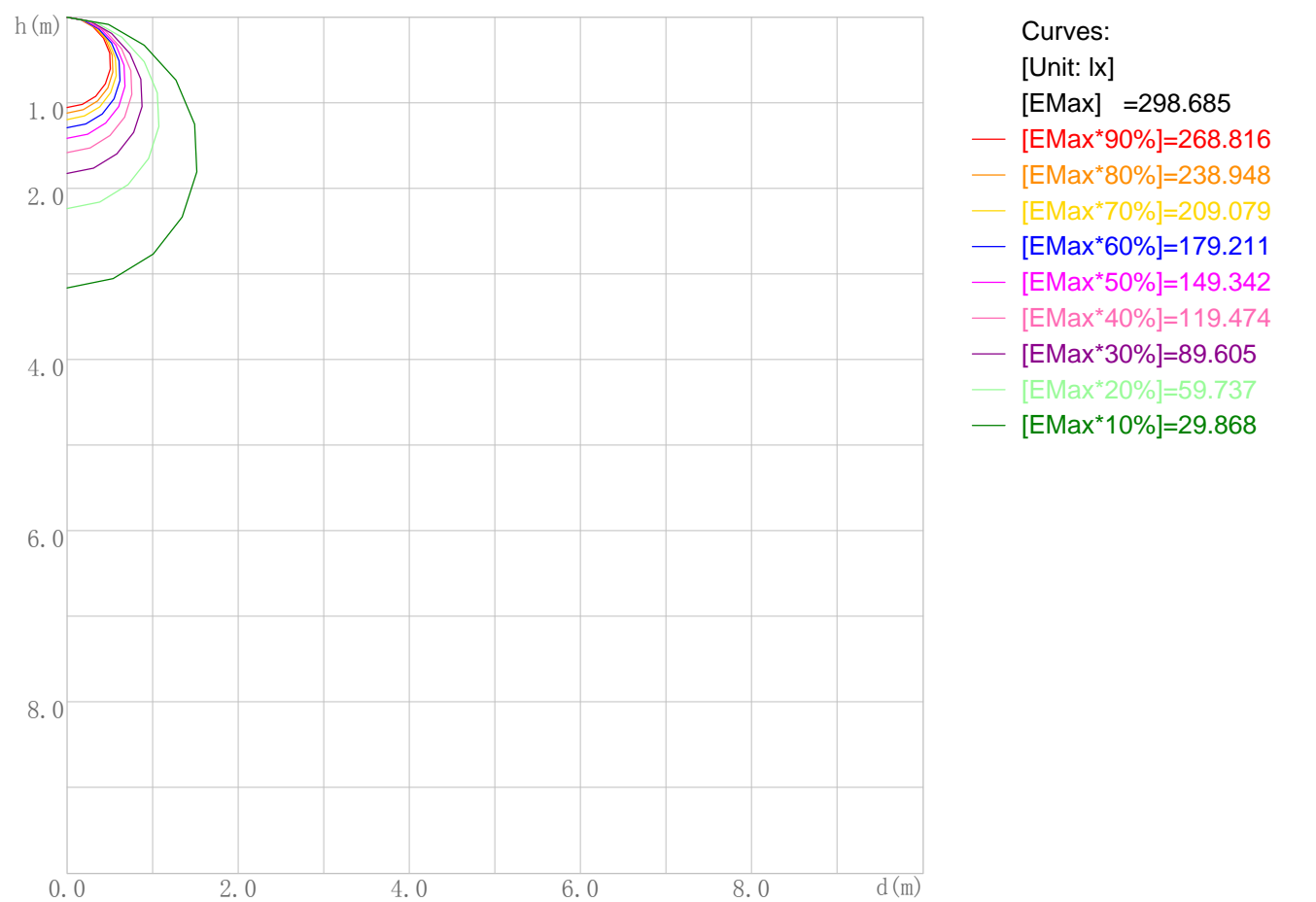
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

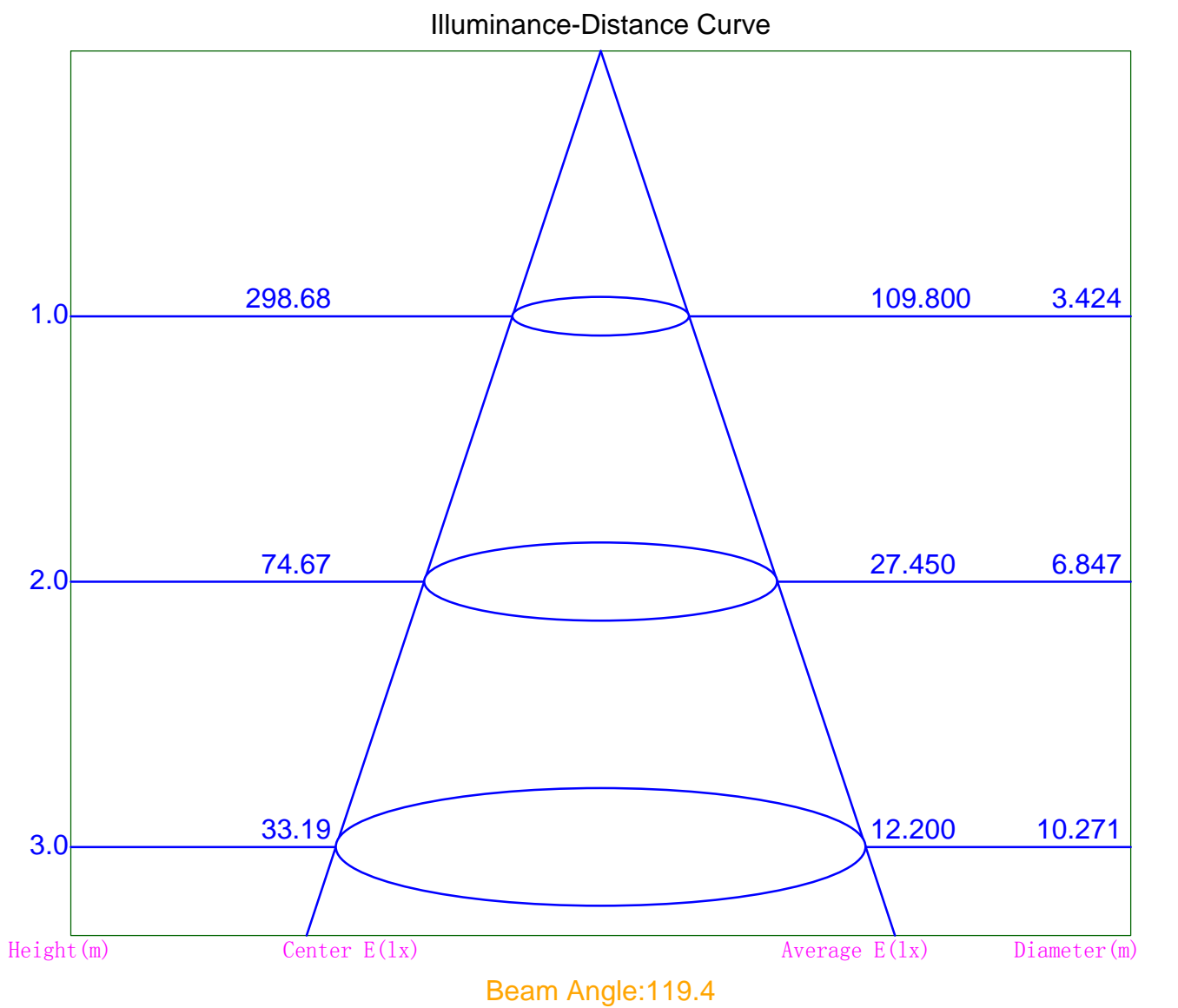
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:298.68lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:298.685cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



Indoor Luminance Limiting Curves

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

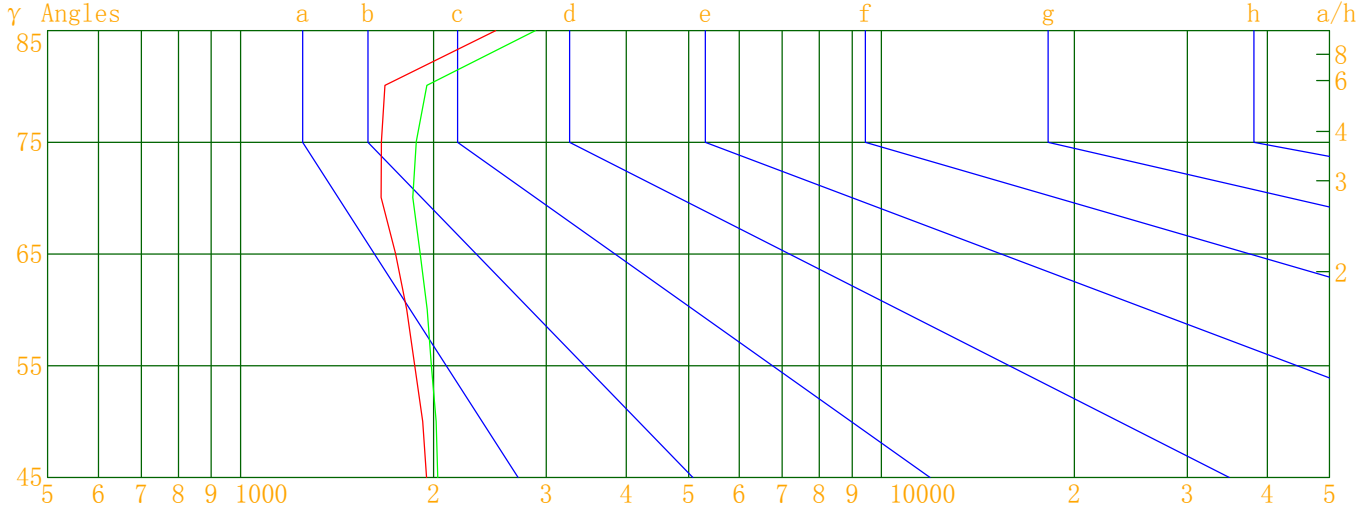
Glare Grade Table

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	1952	1924	1869	1816	1745	1658	1659	1681	2500
C90	2032	2020	1984	1955	1907	1856	1881	1953	2884

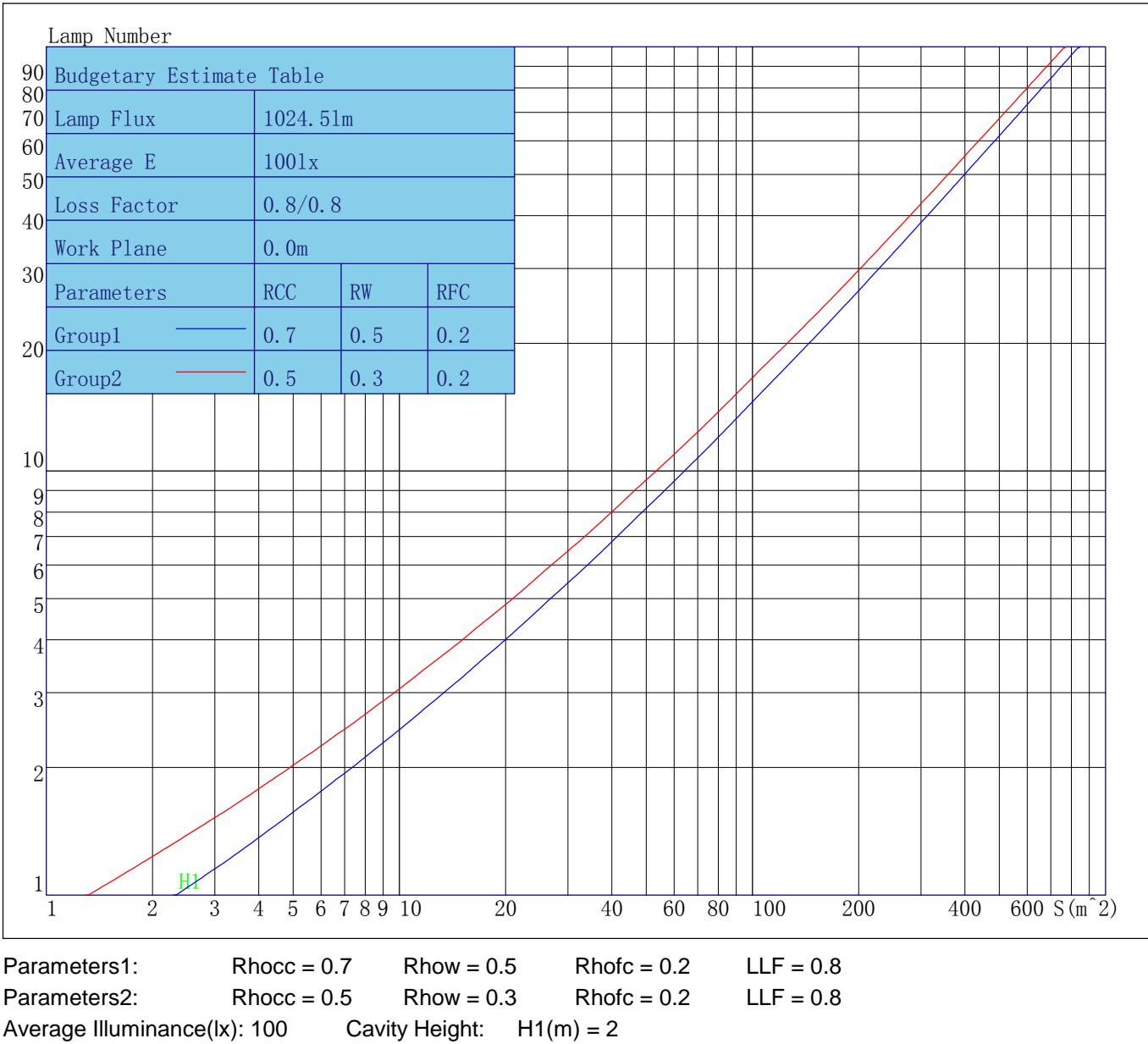
Luminance Limiting Curve



Luminous Size: Length(m)=0.340 Width(m)=0.340 Height(m)=0.078 Area(m^2)=0.142120
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



Indoor Coefficient of Utilization Table

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

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	115	115	115	115	111	111	111	111	105	105	105	99	99	99	94	94	94	91
1	103	98	93	89	100	95	91	87	90	86	83	85	82	80	80	78	76	74
2	93	85	78	72	90	82	76	70	78	72	68	74	69	65	70	66	63	60
3	85	74	66	59	82	72	64	58	68	62	56	65	59	54	61	57	53	50
4	77	65	56	50	75	64	55	49	60	53	47	57	51	46	54	49	45	42
5	71	58	49	42	69	57	48	42	54	46	41	51	45	40	49	43	39	36
6	66	52	43	37	63	51	42	36	48	41	36	46	40	35	44	38	34	32
7	61	47	38	32	59	46	38	32	44	37	31	42	36	31	40	34	30	28
8	56	43	35	29	55	42	34	28	40	33	28	38	32	27	37	31	27	25
9	53	39	31	26	51	39	31	25	37	30	25	35	29	25	34	28	24	22
10	49	36	28	23	48	36	28	23	34	27	23	33	27	22	32	26	22	20

Unified Glare Rating Table

Lum. Name: LED364 (3000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

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	23.1	18.0	21.5	19.0	22.5	23.5
	Y=3H	22.0	25.6	23.1	26.6	27.6	22.7	26.3	23.7	27.3	28.3
	Y=4H	24.9	28.0	25.9	29.0	30.0	25.8	28.9	26.8	29.9	30.9
	Y=6H	26.9	30.0	28.0	31.0	32.0	28.0	31.1	29.1	32.1	33.1
	Y=8H	28.0	31.0	29.0	32.0	33.0	29.2	32.2	30.2	33.2	34.2
	Y=12H	29.1	32.1	30.1	33.1	34.1	30.4	33.4	31.5	34.4	35.4
X=4H	Y=2H	19.2	22.4	20.3	23.4	24.4	19.4	22.5	20.5	23.6	24.6
	Y=3H	24.0	27.1	25.0	28.1	29.1	24.4	27.6	25.5	28.6	29.6
	Y=4H	25.4	27.3	26.7	28.6	29.8	26.0	28.0	27.4	29.3	30.5
	Y=6H	28.0	29.8	29.4	31.1	32.3	28.9	30.7	30.2	32.0	33.2
	Y=8H	29.4	31.1	30.7	32.4	33.6	30.4	32.1	31.7	33.4	34.6
	Y=12H	30.0	31.5	31.5	32.9	34.2	31.2	32.6	32.6	34.0	35.3
X=8H	Y=4H	26.0	27.7	27.3	29.0	30.2	26.6	28.3	27.9	29.6	30.8
	Y=6H	28.2	29.4	29.6	30.8	32.1	28.9	30.2	30.4	31.6	32.9
	Y=8H	29.4	30.4	30.9	31.9	33.3	30.3	31.3	31.8	32.8	34.1
	Y=12H	31.4	32.3	32.9	33.8	35.2	32.4	33.3	34.0	34.8	36.2
X=12H	Y=4H	25.2	26.6	26.6	28.0	29.4	25.8	27.2	27.2	28.6	29.9
	Y=6H	27.9	28.9	29.4	30.4	31.8	28.6	29.6	30.1	31.1	32.5
	Y=8H	29.7	30.6	31.2	32.1	33.5	30.5	31.4	32.1	32.9	34.3
Variations with the objerver position at spacings											
S=1.0H		2.4/-0.9					2.4/-1.3				
S=1.5H		-0.9/-18.9					-1.3/-19.5				
S=2.0H		-0.9/-18.9					-1.3/-19.5				

IES Indoor Report
Photometric Filename: LED364 (3000K 9W).IES

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	298.68	298.68	298.68	298.68	298.68	298.68	298.68	298.68	298.68	298.68	298.68	298.68
γ 10.0	291.19	291.13	291.79	293.14	294.74	296.15	297.88	297.96	297.38	296.30	295.03	293.83
γ 20.0	275.00	274.77	276.11	278.77	282.02	284.92	289.00	289.23	287.95	285.47	282.72	280.06
γ 30.0	249.91	249.59	251.54	255.52	260.28	264.63	271.11	271.42	269.40	265.67	261.30	257.27
γ 40.0	216.50	216.10	218.62	223.80	229.92	235.64	244.30	244.74	242.03	237.11	231.33	226.06
γ 50.0	175.76	175.26	178.34	184.52	191.90	198.73	209.38	209.87	206.66	200.64	193.65	187.19
γ 60.0	129.03	128.56	131.97	138.92	147.23	155.05	167.26	167.84	164.13	157.27	149.23	141.87
γ 70.0	80.57	80.19	83.47	90.20	98.53	106.61	119.65	120.30	116.32	109.13	100.67	93.18
γ 80.0	41.48	41.21	43.44	48.19	54.48	60.86	72.03	72.40	69.01	62.72	55.95	50.26
γ 90.0	20.47	20.22	20.97	23.24	26.34	29.78	36.20	36.25	33.84	30.09	26.36	24.08
γ 100.0	14.38	13.74	13.29	14.16	15.02	16.62	19.01	18.29	16.59	15.23	14.02	14.64
γ 110.0	9.19	11.56	10.10	10.69	11.19	13.51	10.78	13.55	11.18	10.77	10.55	12.30
γ 120.0	8.11	9.70	7.92	7.61	9.13	11.70	9.80	11.83	9.32	8.01	8.41	10.39
γ 130.0	7.79	7.86	6.19	6.39	7.65	9.66	9.98	9.97	7.76	6.67	6.88	8.45
γ 140.0	5.75	5.88	4.67	4.82	6.05	7.39	7.90	7.81	6.15	5.19	5.25	6.39
γ 150.0	3.86	3.93	3.35	3.14	4.37	5.17	5.61	5.36	4.37	3.38	3.84	4.43
γ 160.0	2.53	2.55	2.44	2.53	2.96	3.23	3.58	3.60	3.18	2.58	2.74	2.85
γ 170.0	2.36	2.35	2.31	2.39	2.38	2.41	2.44	2.44	2.37	2.33	2.33	2.37
γ 180.0	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40