

Indoor Luminaire Photometric Data

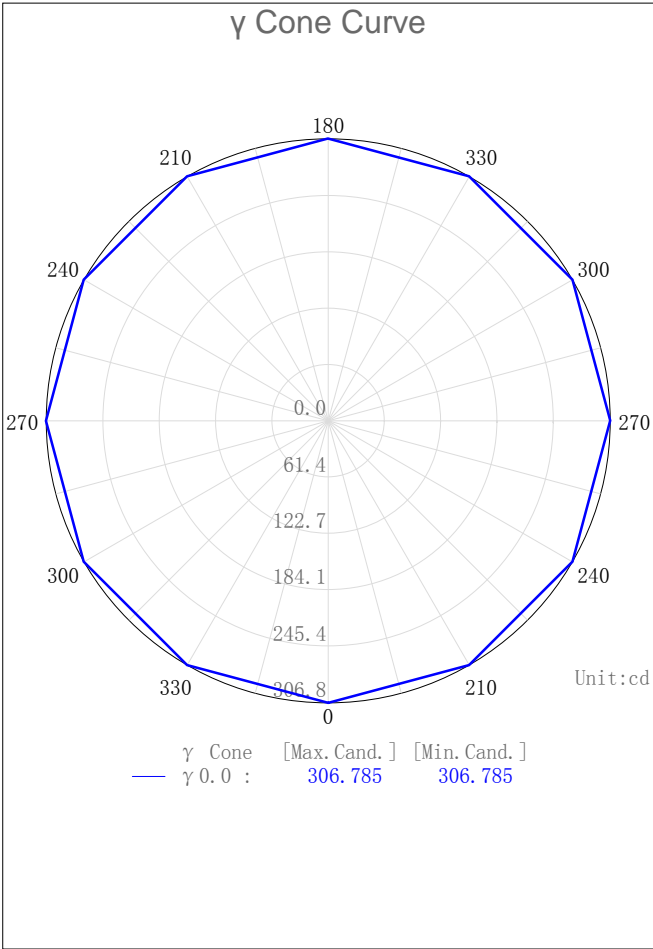
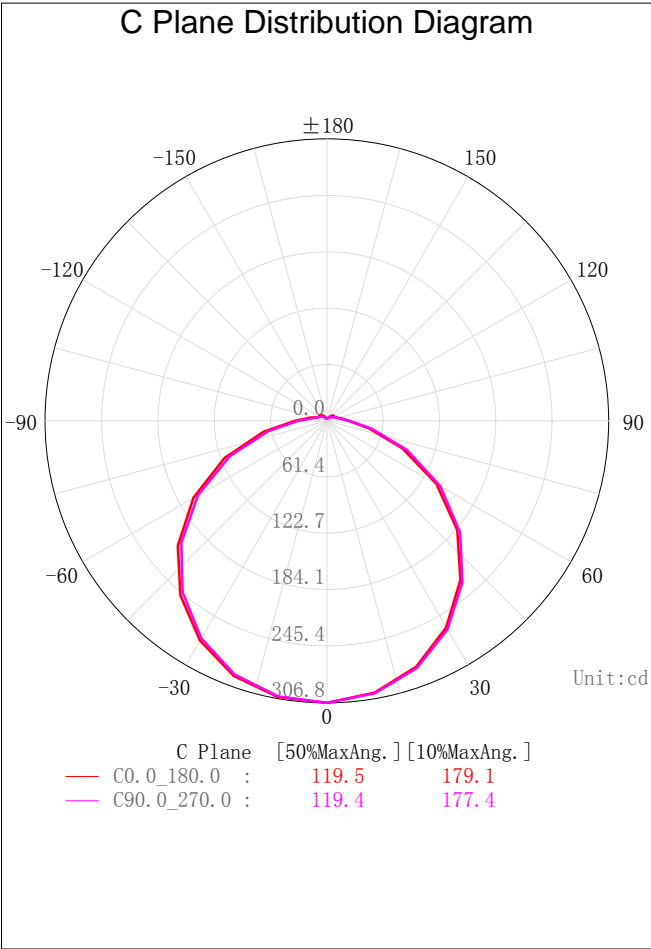
Description Information

Luminary Name: LED364 (4000K 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

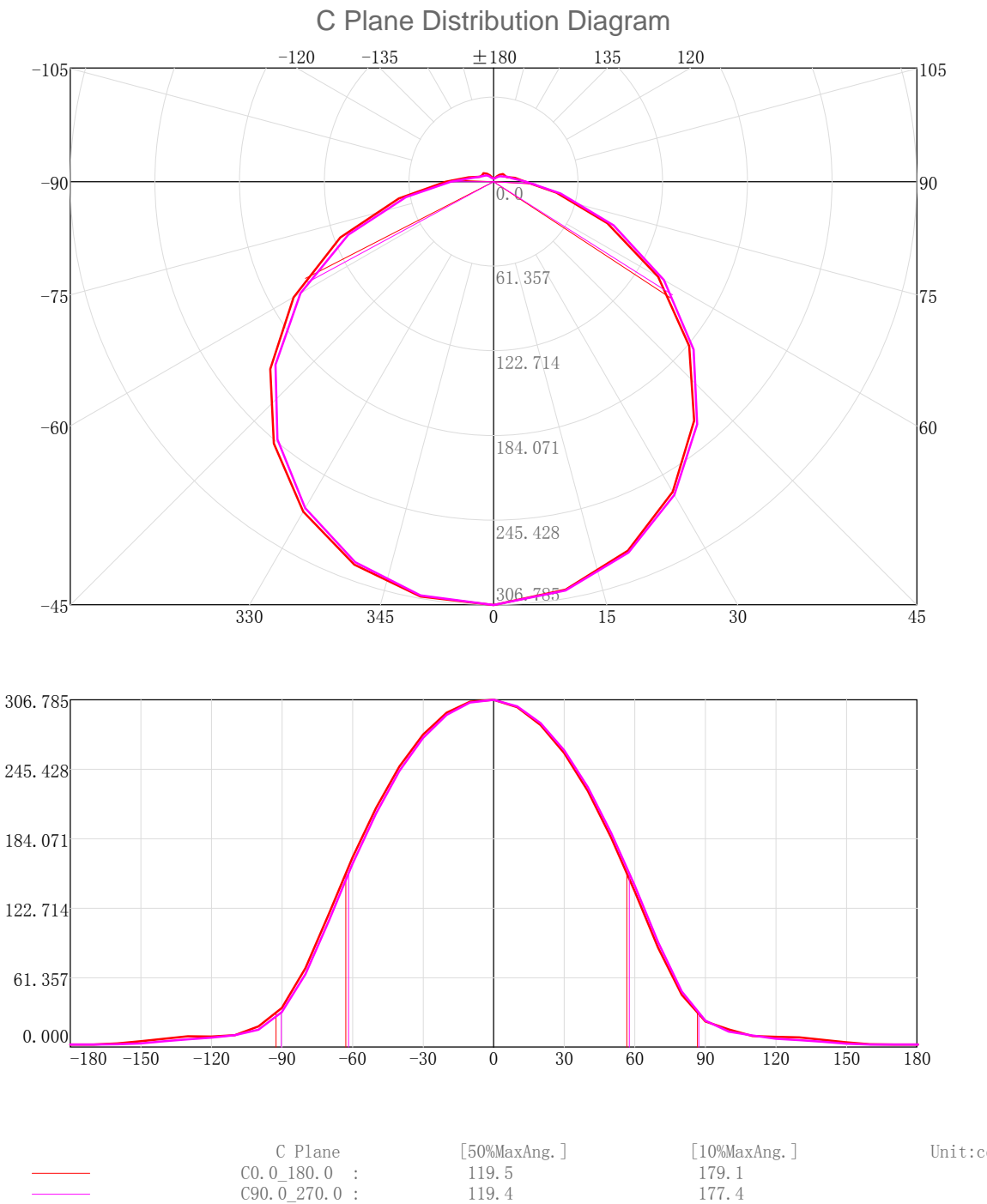
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1050.000	Luminary Flux(lm): 1051.967	Field Angle(10%Imax): 179.1(°)
Rated Power(W):	Luminary Efficiency: 100.19%	Down Lumens&Percent: 983.886lm 93.53%
Rated Voltage(V):	Luminary EER(lm/W): 119.937	Up Lumens&Percent: 68.081lm 6.47%
Tested Power(W): 8.771	Max. Candela(cd): 306.785	S/MH: C0_a180=1.301 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): 119.5(°)	ErP Φuse(120°): 727.821lm
Lamp Size (W*L*H):0.340m*0.340m*0.078m	Left=-62.9° , Right=56.7°	IRF (%): 106.254

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

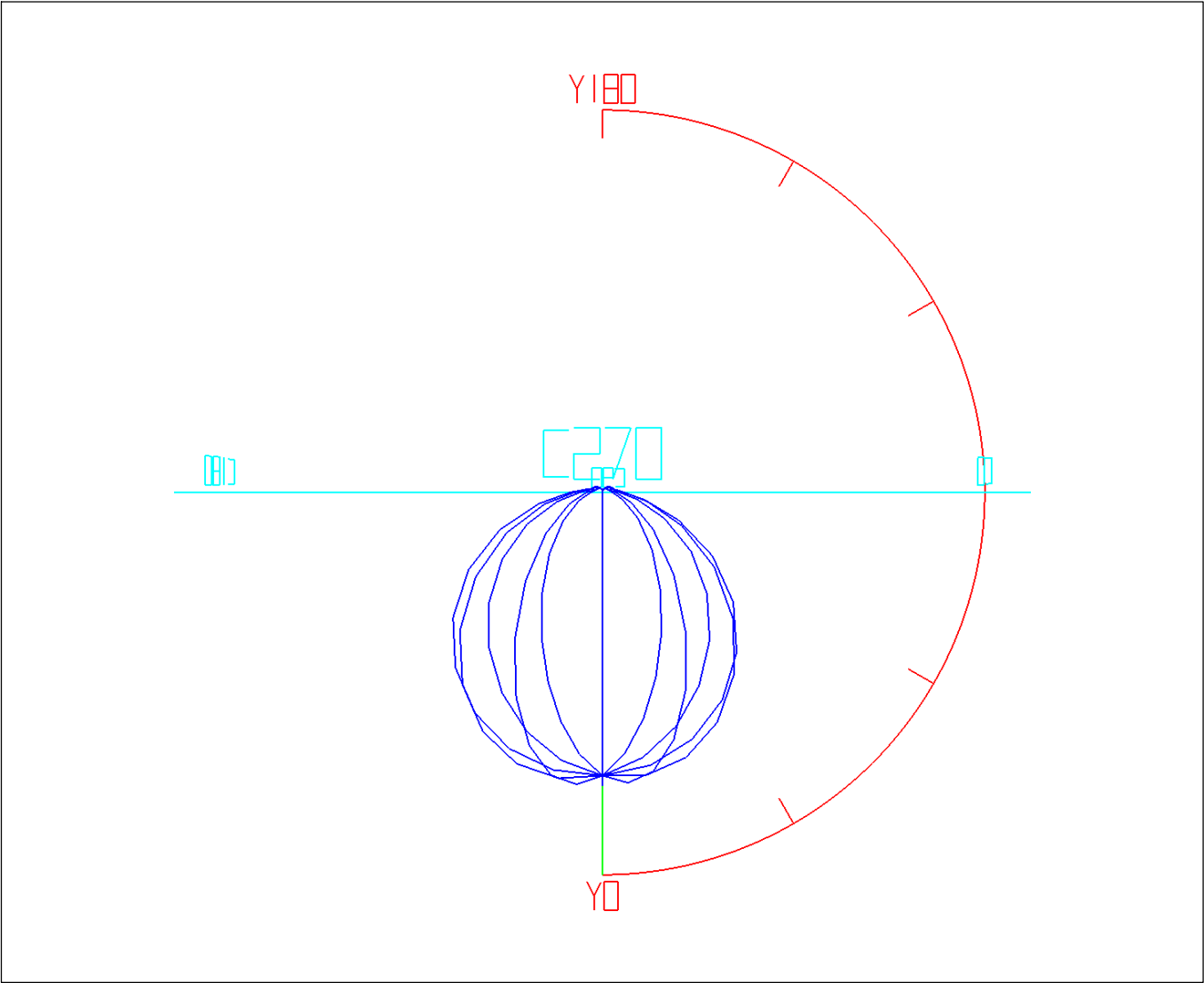
Lum. Name: LED364 (4000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



3D Light Intensity Distribution Modal

Lum. Name: LED364 (4000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
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3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —

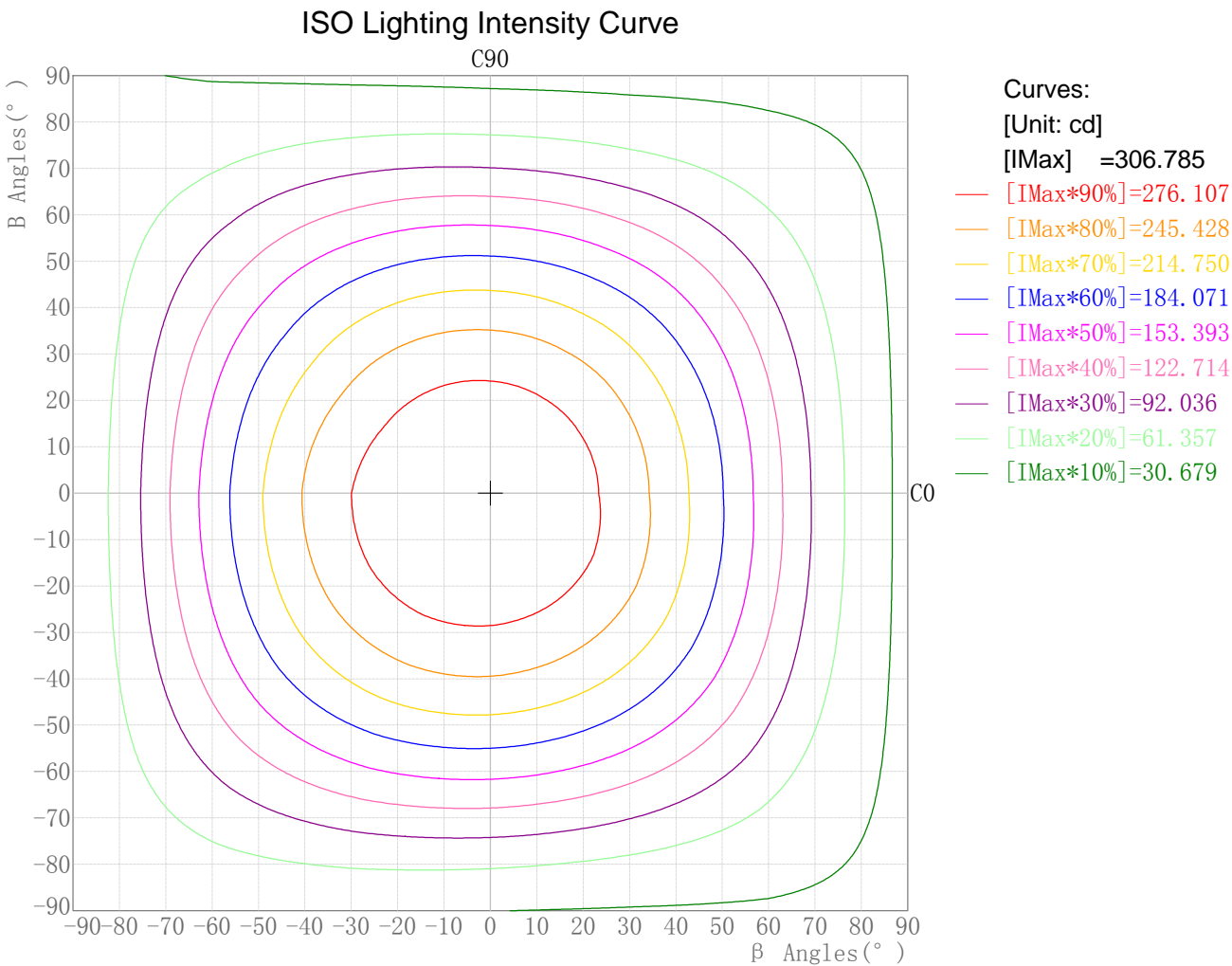
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	29. 09	29. 09	2. 77	2. 77
10. 0-20. 0	83. 98	113. 07	8. 00	10. 77
20. 0-30. 0	129. 04	242. 11	12. 29	23. 06
30. 0-40. 0	158. 49	400. 61	15. 09	38. 15
40. 0-50. 0	168. 39	569. 00	16. 04	54. 19
50. 0-60. 0	157. 17	726. 16	14. 97	69. 16
60. 0-70. 0	126. 56	852. 72	12. 05	81. 21
70. 0-80. 0	84. 66	937. 39	8. 06	89. 28
80. 0-90. 0	46. 50	983. 89	4. 43	93. 70
90. 0-100. 0	23. 69	1007. 57	2. 26	95. 96
100. 0-110. 0	14. 31	1021. 88	1. 36	97. 32
110. 0-120. 0	10. 47	1032. 35	1. 00	98. 32
120. 0-130. 0	7. 99	1040. 34	0. 76	99. 08
130. 0-140. 0	5. 60	1045. 94	0. 53	99. 61
140. 0-150. 0	3. 34	1049. 28	0. 32	99. 93
150. 0-160. 0	1. 70	1050. 97	0. 16	100. 09
160. 0-170. 0	0. 76	1051. 74	0. 07	100. 17
170. 0-180. 0	0. 23	1051. 97	0. 02	100. 19

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED364 (4000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



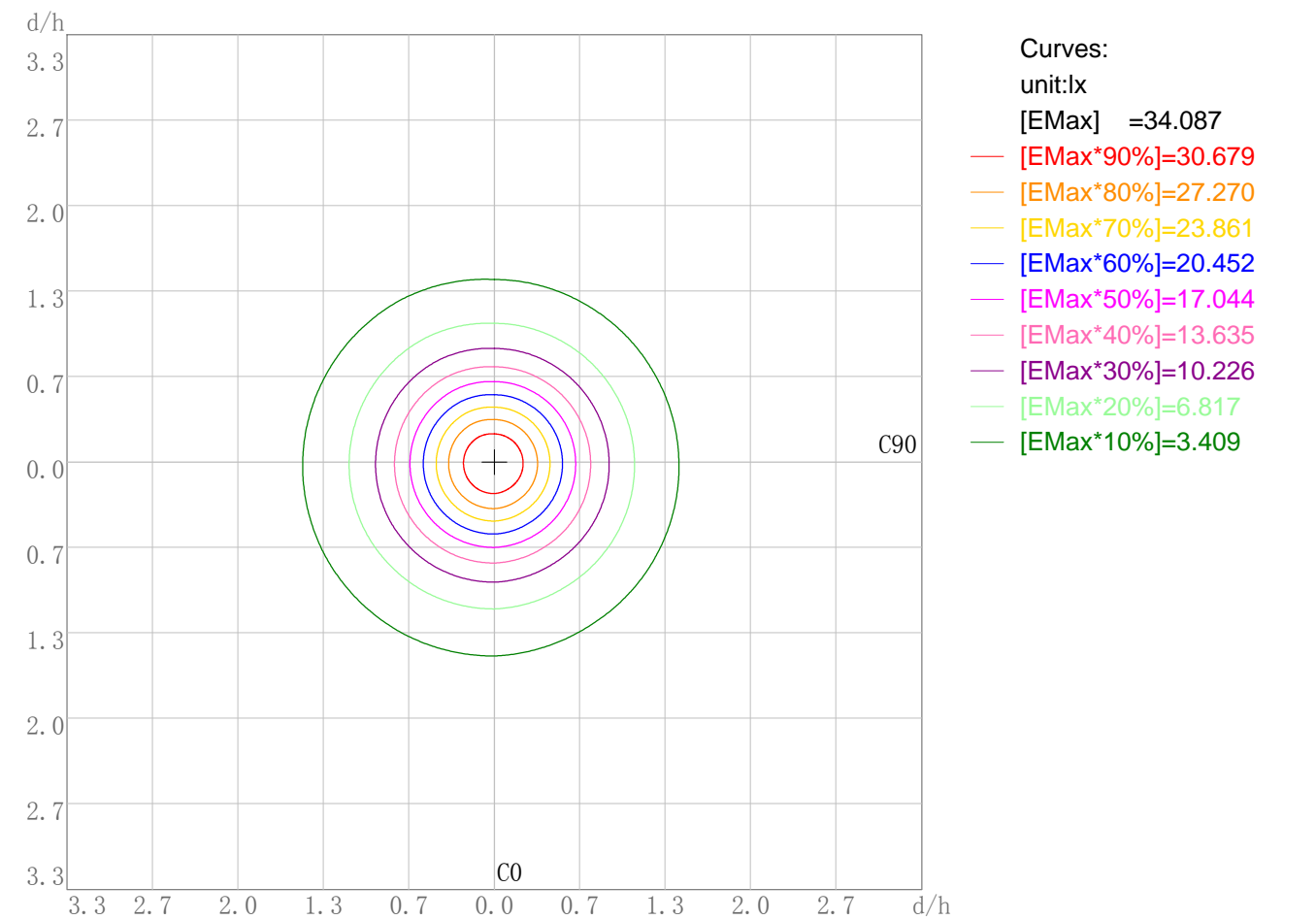
Maximum Light Intensity(cd): 306.79

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED364 (4000K 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

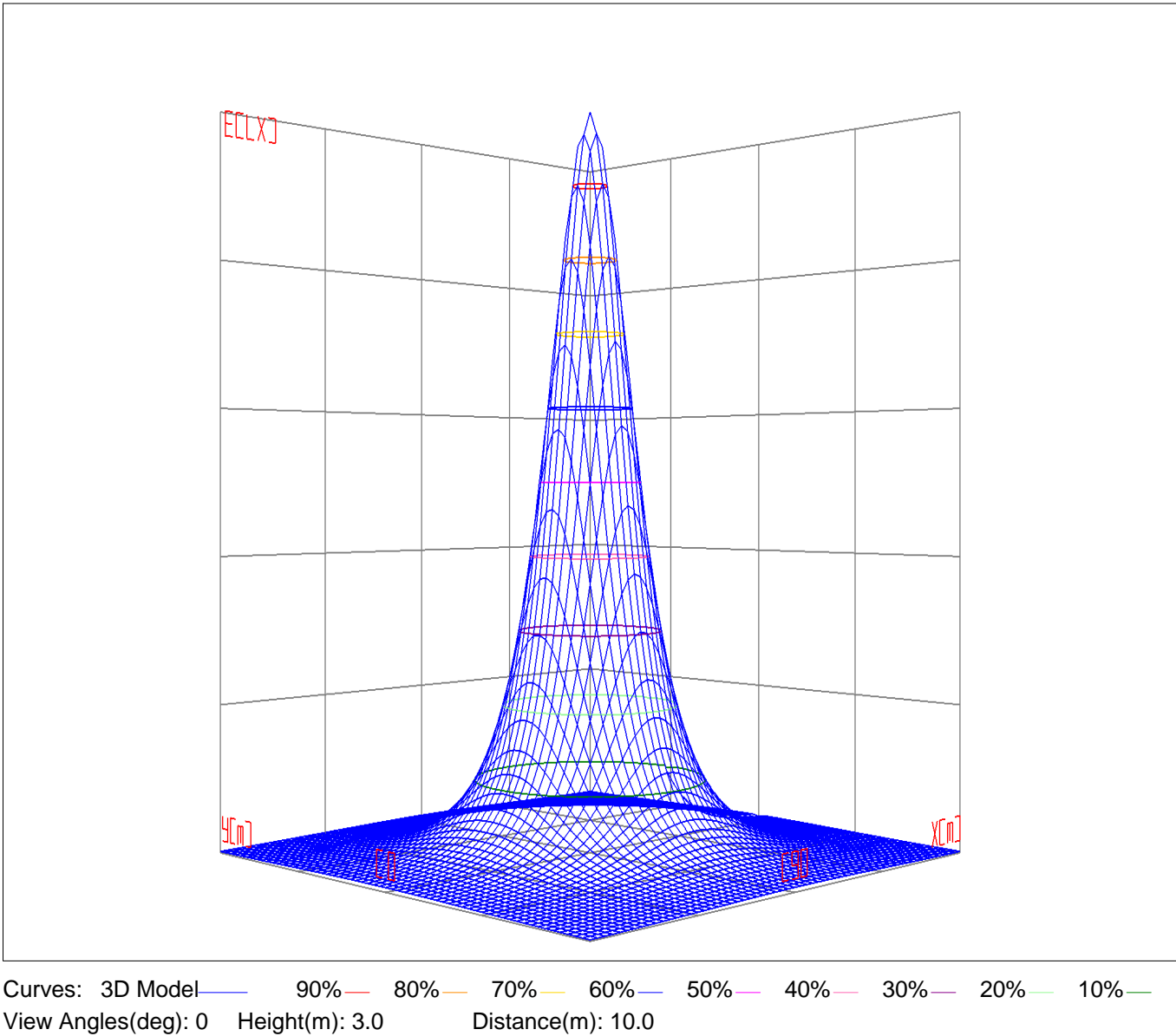


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 34.09
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED364 (4000K 9W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

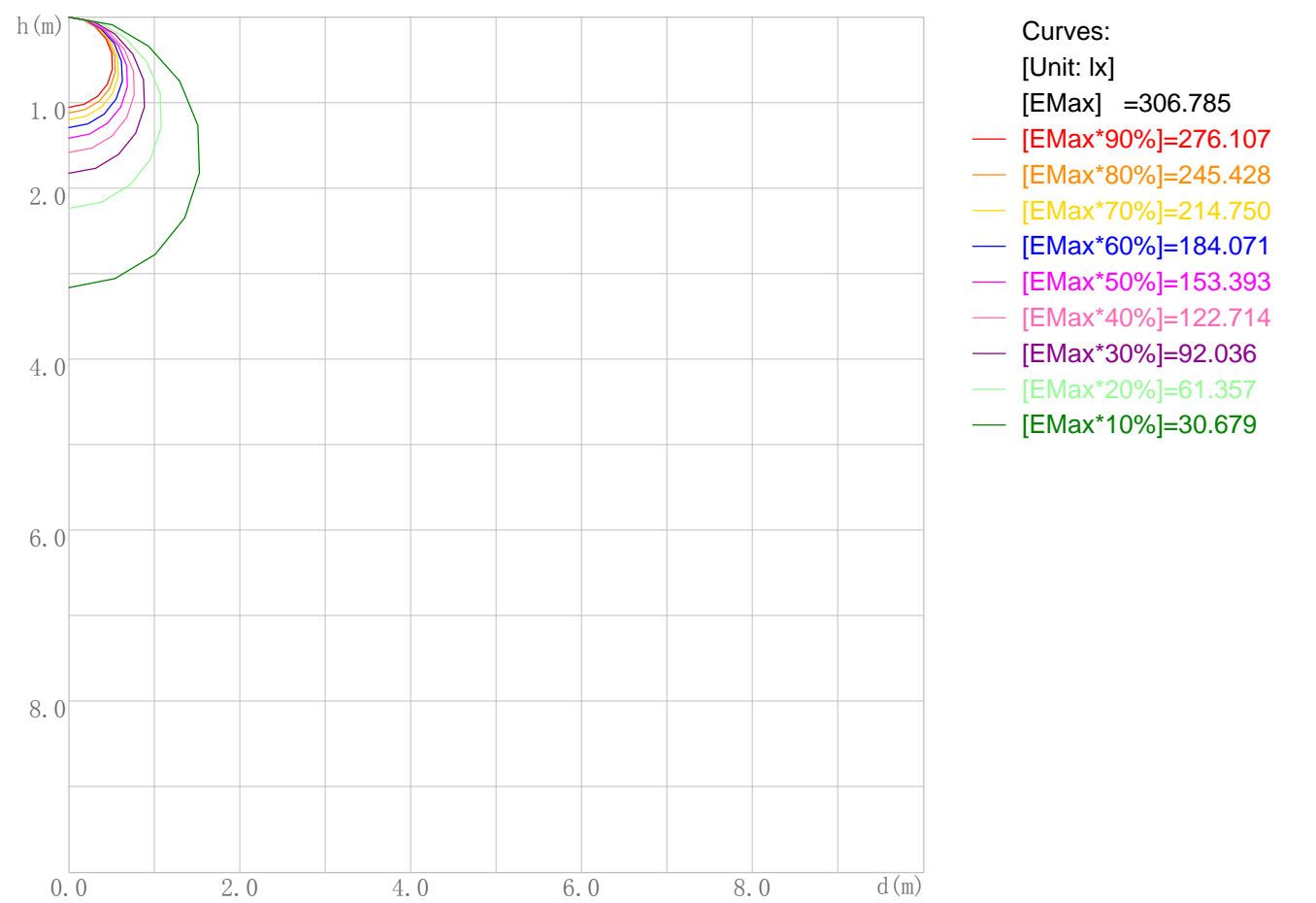
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED364 (4000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

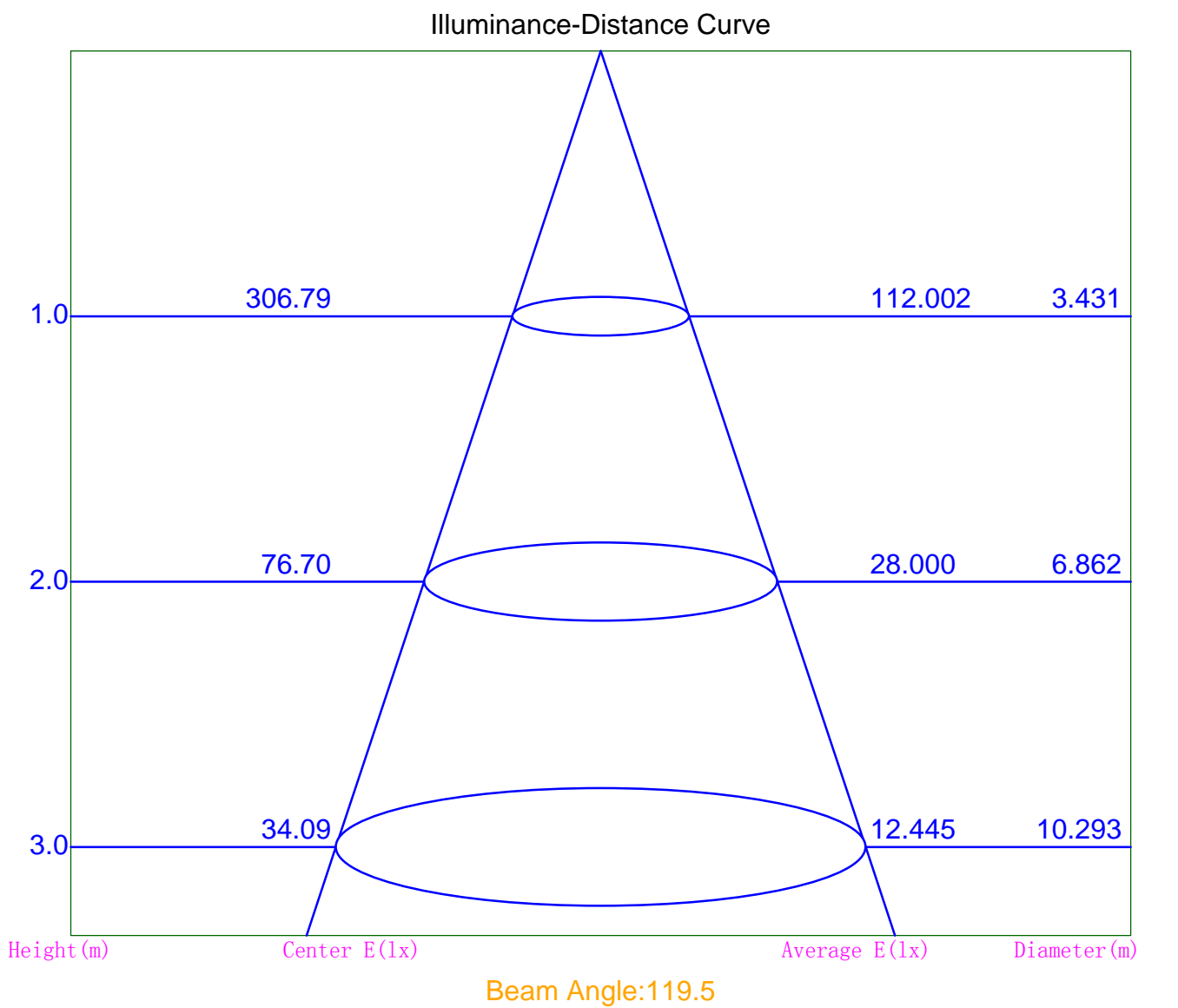
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:306.79lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:306.785cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED364 (4000K 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 (4000K 9W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

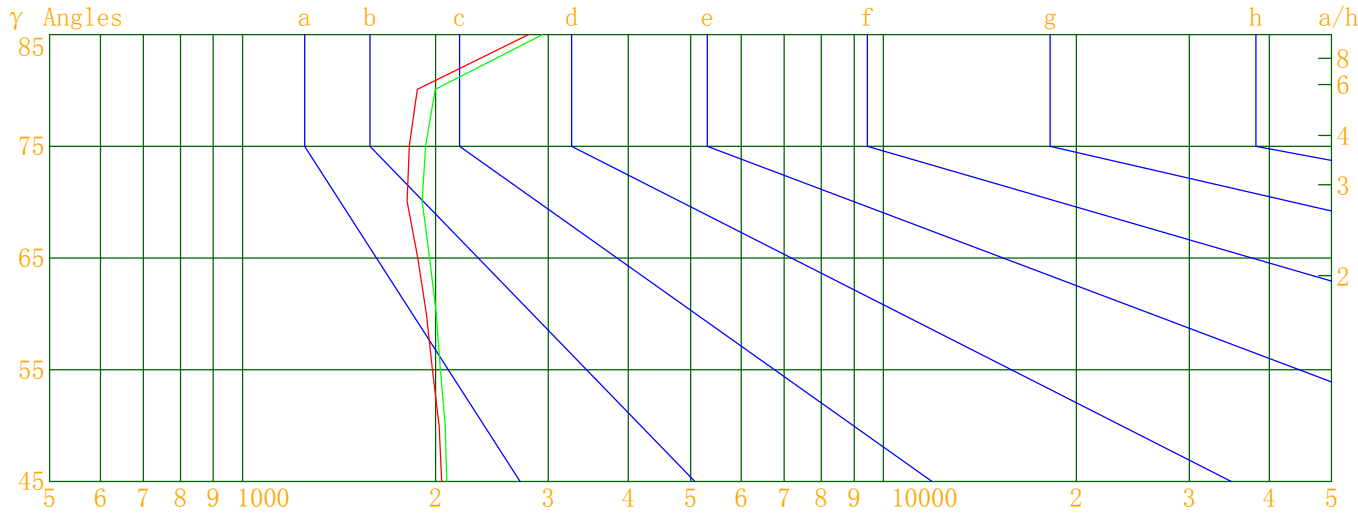
Glare Grade Table

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	2046	2026	1979	1936	1876	1805	1822	1874	2791
C90	2084	2072	2035	2006	1958	1906	1930	1999	2938

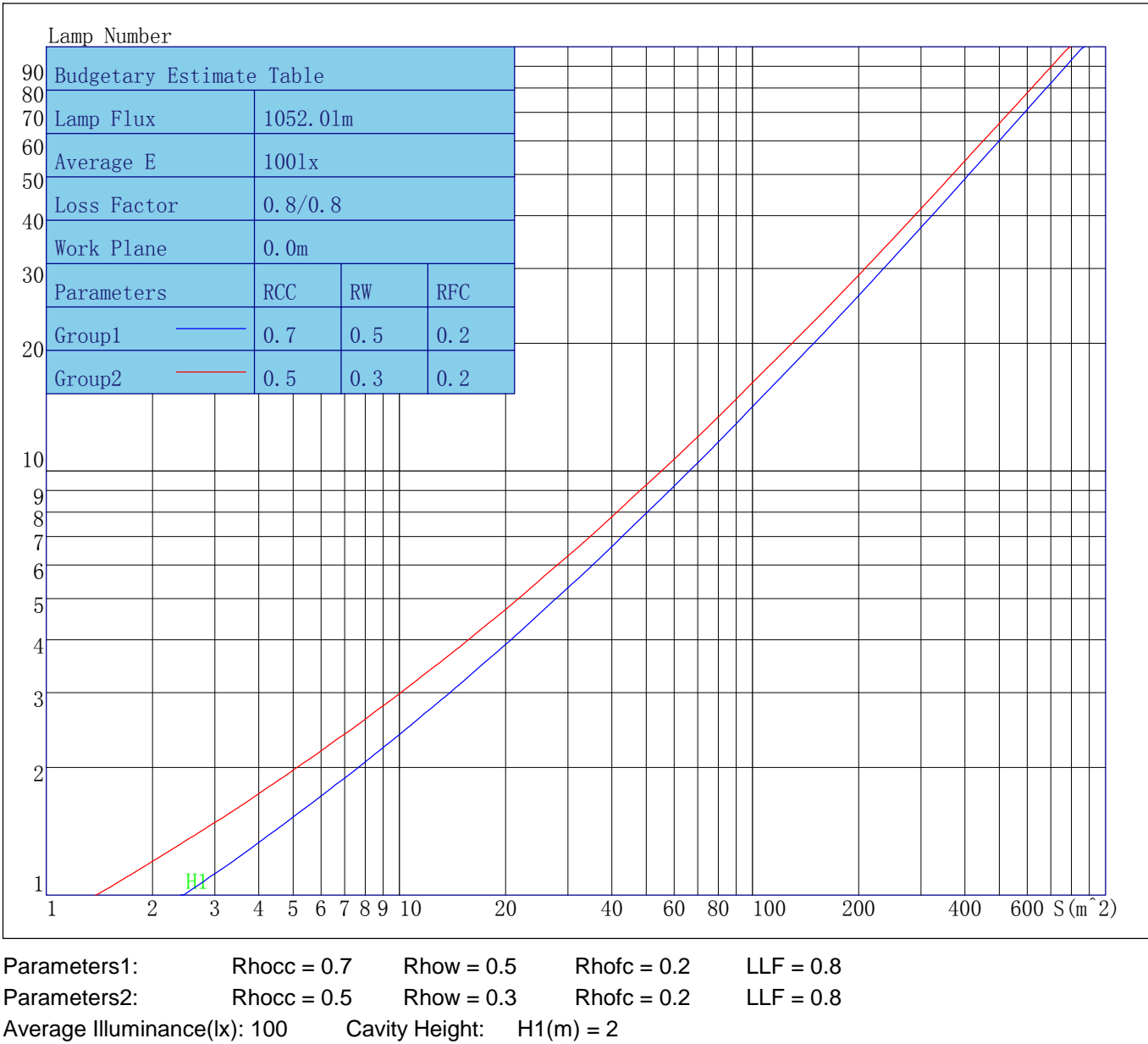
Luminance Limiting Curve



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 (4000K 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 (4000K 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	93	90	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	72	80	74	69	76	71	67	72	68	64	62
3	87	76	67	61	84	74	66	60	70	63	58	66	61	56	63	58	54	52
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	50	44	70	58	49	43	55	48	42	53	46	41	50	44	40	37
6	67	54	44	38	65	52	44	37	50	42	36	47	41	36	45	39	35	33
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	25
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	36	29	24	35	28	23	34	27	23	32	27	22	21

Unified Glare Rating Table

Lum. Name: LED364 (4000K 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	18.0	21.5	19.0	22.5	23.5	18.2	21.7	19.2	22.7	23.7
	Y=3H	22.6	26.2	23.6	27.2	28.1	22.9	26.5	23.9	27.5	28.5
	Y=4H	25.5	28.7	26.6	29.7	30.7	26.0	29.1	27.0	30.1	31.1
	Y=6H	27.7	30.8	28.8	31.8	32.8	28.2	31.3	29.3	32.3	33.3
	Y=8H	28.8	31.8	29.8	32.8	33.8	29.3	32.3	30.4	33.4	34.4
	Y=12H	30.0	33.0	31.0	34.0	35.0	30.5	33.5	31.6	34.6	35.6
X=4H	Y=2H	19.6	22.8	20.7	23.8	24.8	19.7	22.8	20.8	23.9	24.9
	Y=3H	24.5	27.6	25.6	28.7	29.7	24.7	27.9	25.8	28.9	29.9
	Y=4H	26.0	28.0	27.3	29.3	30.5	26.3	28.3	27.6	29.6	30.8
	Y=6H	28.8	30.6	30.1	31.8	33.1	29.2	31.0	30.5	32.2	33.4
	Y=8H	30.2	31.9	31.6	33.2	34.4	30.6	32.4	32.0	33.6	34.9
	Y=12H	30.9	32.4	32.4	33.8	35.1	31.4	32.8	32.8	34.2	35.6
X=8H	Y=4H	26.6	28.3	28.0	29.6	30.8	26.9	28.6	28.3	29.9	31.1
	Y=6H	28.9	30.1	30.4	31.5	32.9	29.3	30.5	30.7	31.9	33.2
	Y=8H	30.2	31.2	31.7	32.7	34.1	30.6	31.6	32.1	33.1	34.4
	Y=12H	32.3	33.2	33.8	34.7	36.1	32.7	33.6	34.2	35.1	36.5
X=12H	Y=4H	25.8	27.3	27.3	28.7	30.0	26.1	27.5	27.6	28.9	30.3
	Y=6H	28.6	29.6	30.1	31.1	32.5	29.0	30.0	30.5	31.5	32.8
	Y=8H	30.5	31.4	32.0	32.9	34.3	30.9	31.8	32.4	33.3	34.6
Variations with the objerver position at spacings											
S=1.0H		2.4/-1.0					2.3/-1.2				
S=1.5H		-1.0/-18.9					-1.2/-19.2				
S=2.0H		-1.0/-18.9					-1.2/-19.2				

IES Indoor Report

Photometric Filename: LED364 (4000K 9W)

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	306.79	306.79	306.79	306.79	306.79	306.79	306.79	306.79	306.79	306.79	306.79	306.79
γ 10.0	300.14	299.78	300.00	300.87	302.04	303.15	305.19	305.36	305.11	304.44	303.53	302.46
γ 20.0	284.47	283.82	284.34	286.06	288.43	290.87	295.32	295.66	295.06	293.49	291.45	289.15
γ 30.0	259.62	258.72	259.56	262.13	265.62	269.31	276.00	276.58	275.58	273.16	270.01	266.64
γ 40.0	226.17	225.05	226.18	229.57	234.12	238.89	247.76	248.58	247.14	243.88	239.63	235.32
γ 50.0	185.06	183.76	185.20	189.28	194.80	200.46	211.26	212.20	210.44	206.36	201.26	196.03
γ 60.0	137.59	136.21	137.82	142.56	148.81	155.22	167.44	168.54	166.45	161.71	155.87	150.01
γ 70.0	87.76	86.31	87.83	92.63	98.88	105.40	118.23	119.47	117.11	112.15	105.97	100.17
γ 80.0	46.25	45.06	45.98	49.34	54.15	59.24	69.80	70.70	68.74	64.52	59.72	55.30
γ 90.0	22.90	21.99	22.03	23.44	25.76	28.68	34.62	34.84	33.22	31.03	28.55	26.93
γ 100.0	15.82	14.64	13.60	13.88	14.35	16.10	18.44	17.64	15.96	15.57	14.97	16.05
γ 110.0	10.03	12.48	10.39	10.49	10.78	13.07	10.63	13.43	10.96	10.70	11.10	13.52
γ 120.0	9.18	10.60	8.41	7.56	8.59	11.14	9.53	11.68	9.38	8.50	9.39	11.63
γ 130.0	8.78	8.65	6.70	6.31	7.11	9.01	9.58	9.82	7.83	7.05	7.75	9.57
γ 140.0	6.52	6.47	5.10	4.80	5.61	6.81	7.49	7.71	6.21	5.43	5.87	7.26
γ 150.0	4.28	4.33	3.66	3.20	4.15	4.82	5.35	5.48	4.55	3.46	4.21	4.94
γ 160.0	2.71	2.77	2.64	2.54	2.89	3.10	3.49	3.54	3.17	2.68	2.88	3.07
γ 170.0	2.46	2.45	2.45	2.43	2.40	2.38	2.46	2.41	2.38	2.38	2.36	2.41
γ 180.0	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44