

Indoor Luminaire Photometric Data

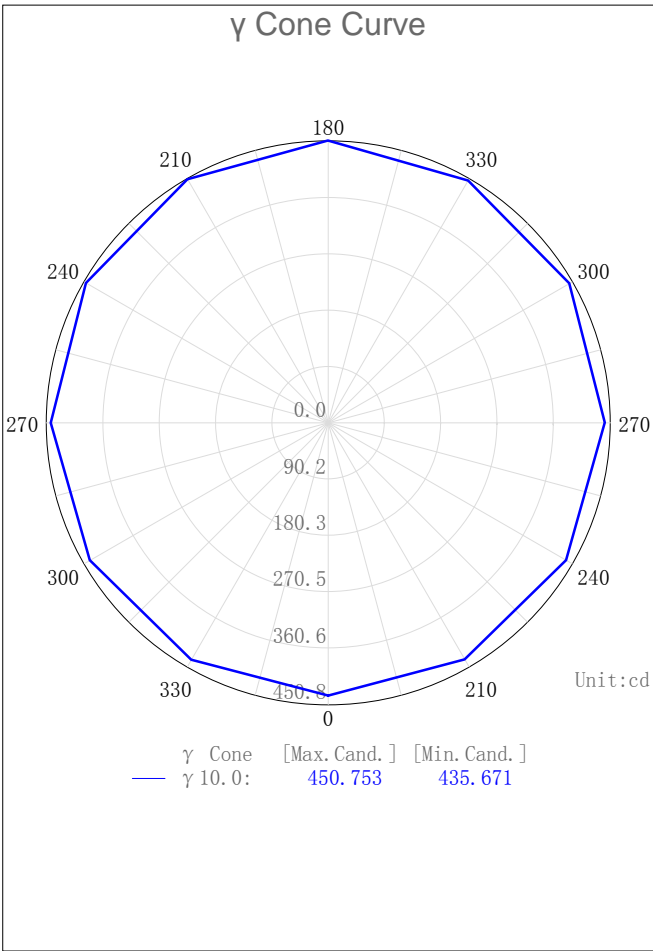
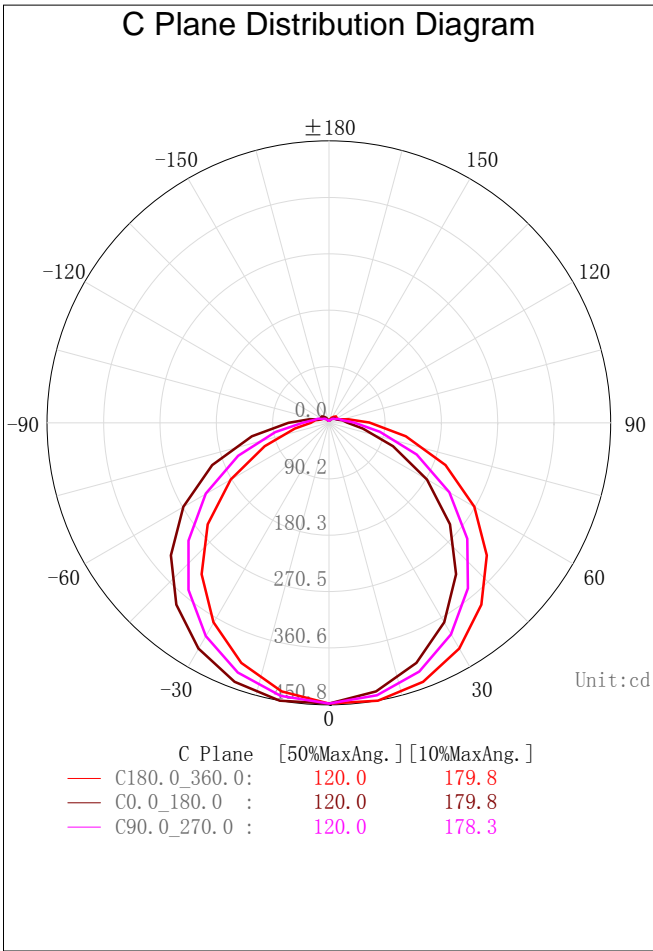
Description Information

Luminary Name: LED364 (4000K 14W)	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

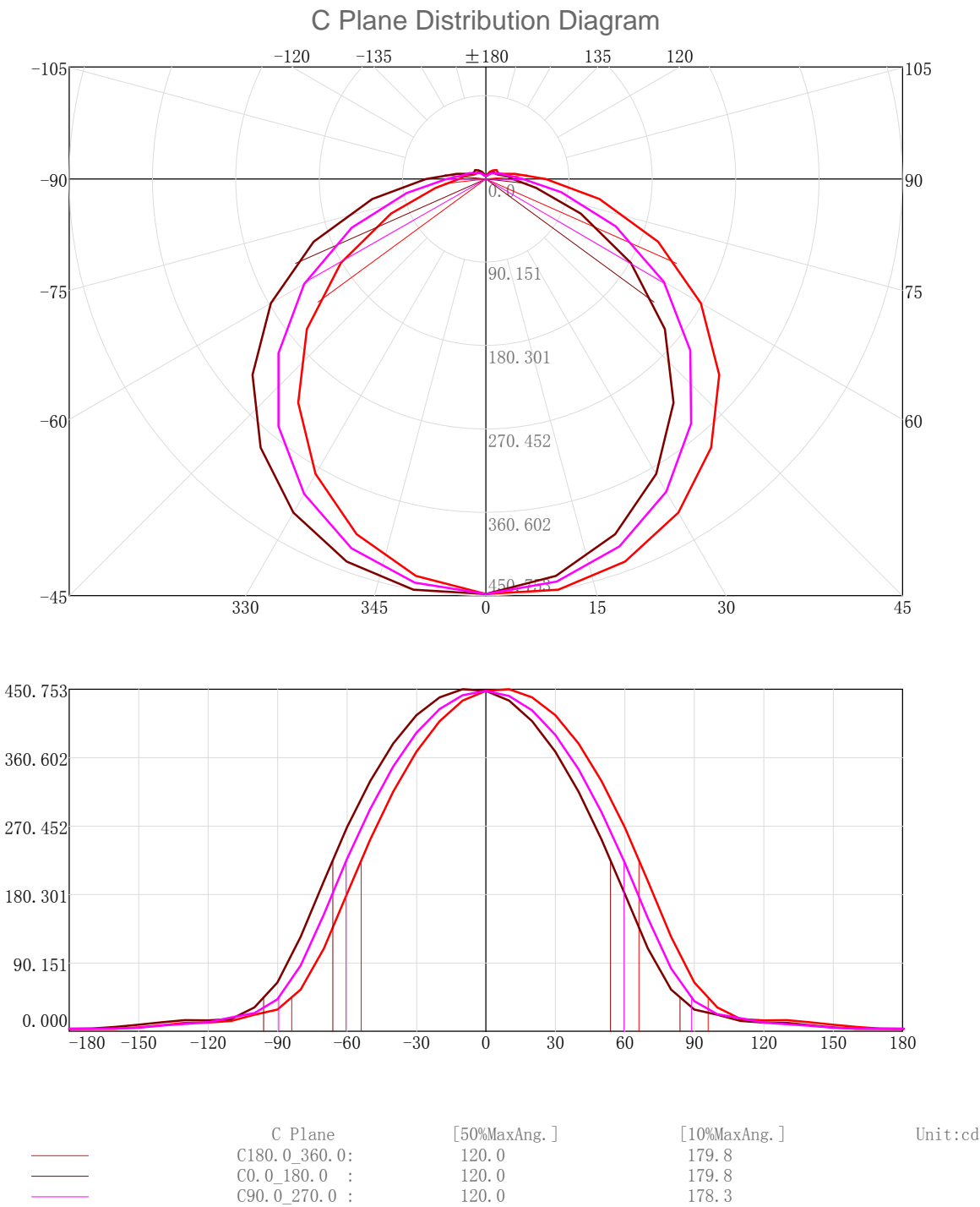
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1600.000	Luminary Flux(lm): 1554.402	Field Angle(10%Imax): 179.8(°)
Rated Power(W):	Luminary Efficiency: 97.15%	Down Lumens&Percent: 1449.814lm 93.27%
Rated Voltage(V):	Luminary EER(lm/W): 119.477	Up Lumens&Percent: 104.588lm 6.73%
Tested Power(W): 13.010	Max. Candela(cd): 450.753	S/MH: C0_a180=1.304 C90_270=1.302
Lamps' Inside: 1	Max Cand@Ang. (°):	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.3,0.061,0.924	Beam Angle(50%Imax): 120.0(°)	ErP Φuse(120°): 1071.644lm
Lamp Size (W*L*H):0.340m*0.340m*0.078m	Left=-53.8° ,Right=66.1°	IRF (%): 108.623

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

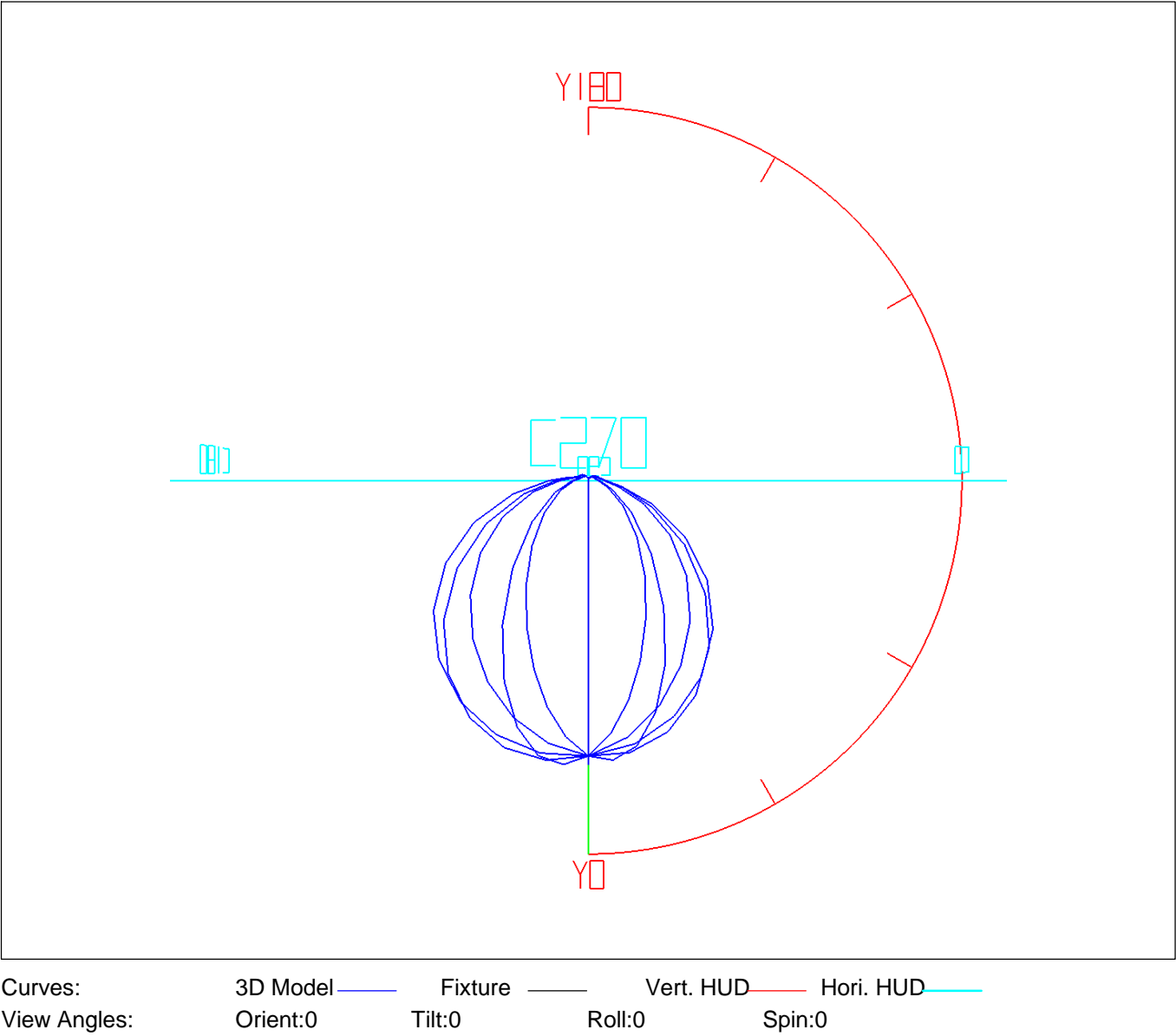
Lum. Name: LED364 (4000K 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



3D Light Intensity Distribution Modal

Lum. Name: LED364 (4000K 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
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3D Light Intensity Distribution Modal

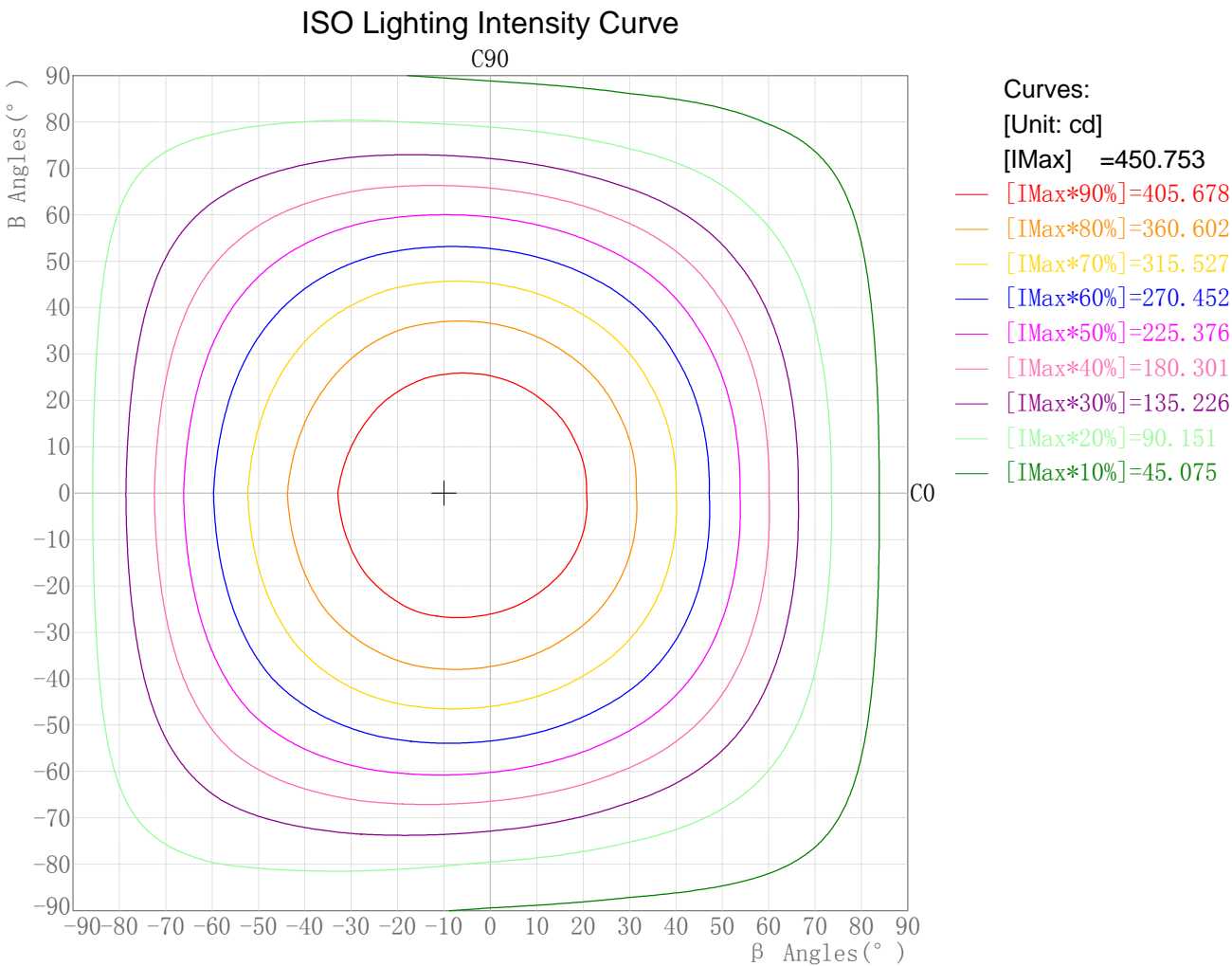


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	42. 54	42. 54	2. 66	2. 66
10. 0-20. 0	122. 81	165. 35	7. 68	10. 33
20. 0-30. 0	188. 81	354. 16	11. 80	22. 13
30. 0-40. 0	232. 15	586. 31	14. 51	36. 64
40. 0-50. 0	247. 06	833. 36	15. 44	52. 09
50. 0-60. 0	231. 20	1064. 56	14. 45	66. 53
60. 0-70. 0	187. 19	1251. 75	11. 70	78. 23
70. 0-80. 0	126. 79	1378. 54	7. 92	86. 16
80. 0-90. 0	71. 28	1449. 81	4. 45	90. 61
90. 0-100. 0	37. 27	1487. 08	2. 33	92. 94
100. 0-110. 0	22. 54	1509. 62	1. 41	94. 35
110. 0-120. 0	15. 89	1525. 51	0. 99	95. 34
120. 0-130. 0	11. 73	1537. 24	0. 73	96. 08
130. 0-140. 0	8. 19	1545. 44	0. 51	96. 59
140. 0-150. 0	4. 93	1550. 37	0. 31	96. 90
150. 0-160. 0	2. 54	1552. 91	0. 16	97. 06
160. 0-170. 0	1. 15	1554. 06	0. 07	97. 13
170. 0-180. 0	0. 35	1554. 40	0. 02	97. 15

Rectangle ISO Lighting Intensity Diagram

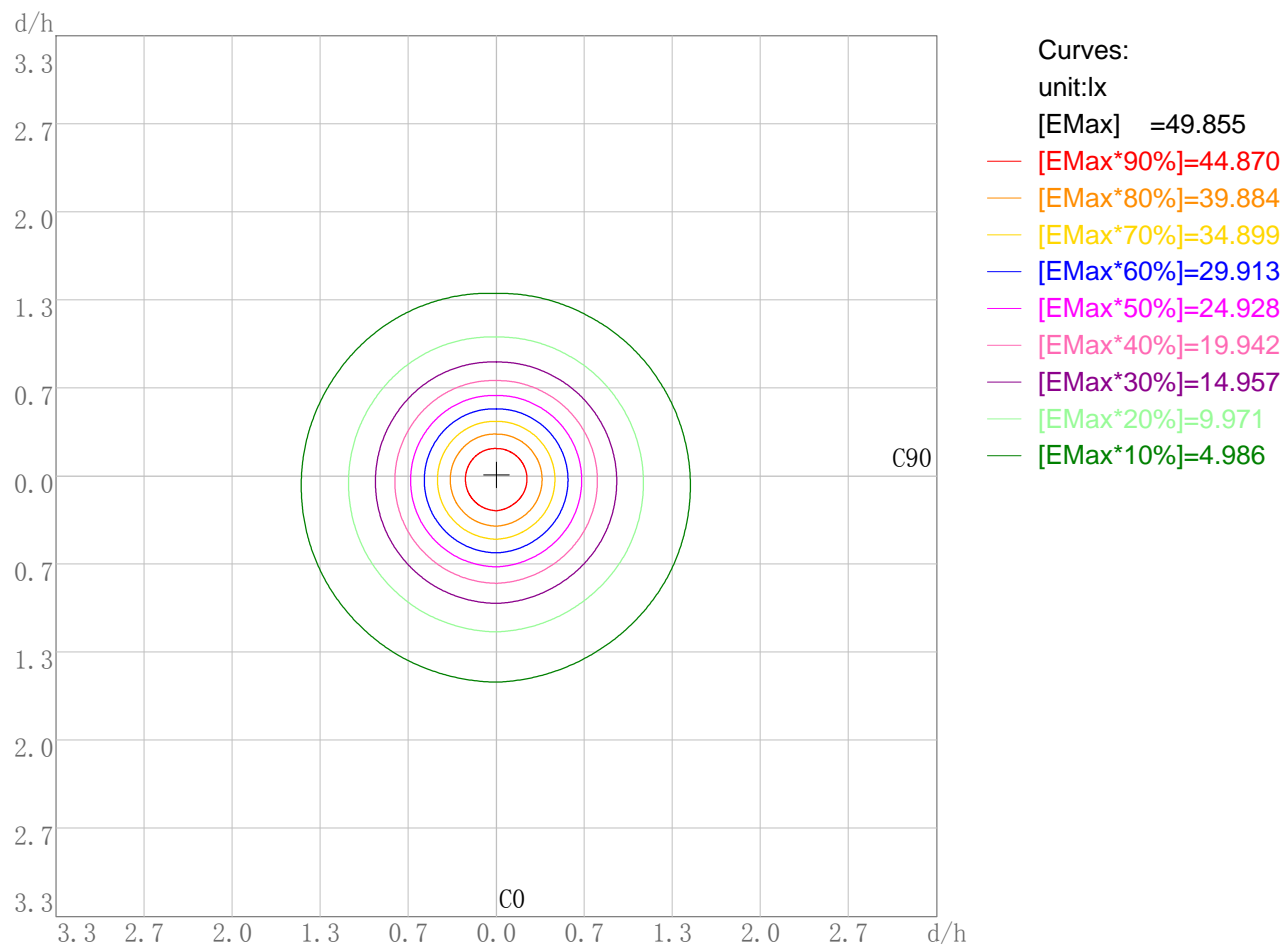
Lum. Name: LED364 (4000K 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



Plane ISO-Illuminance Diagram

Lum. Name: LED364 (4000K 14W)	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

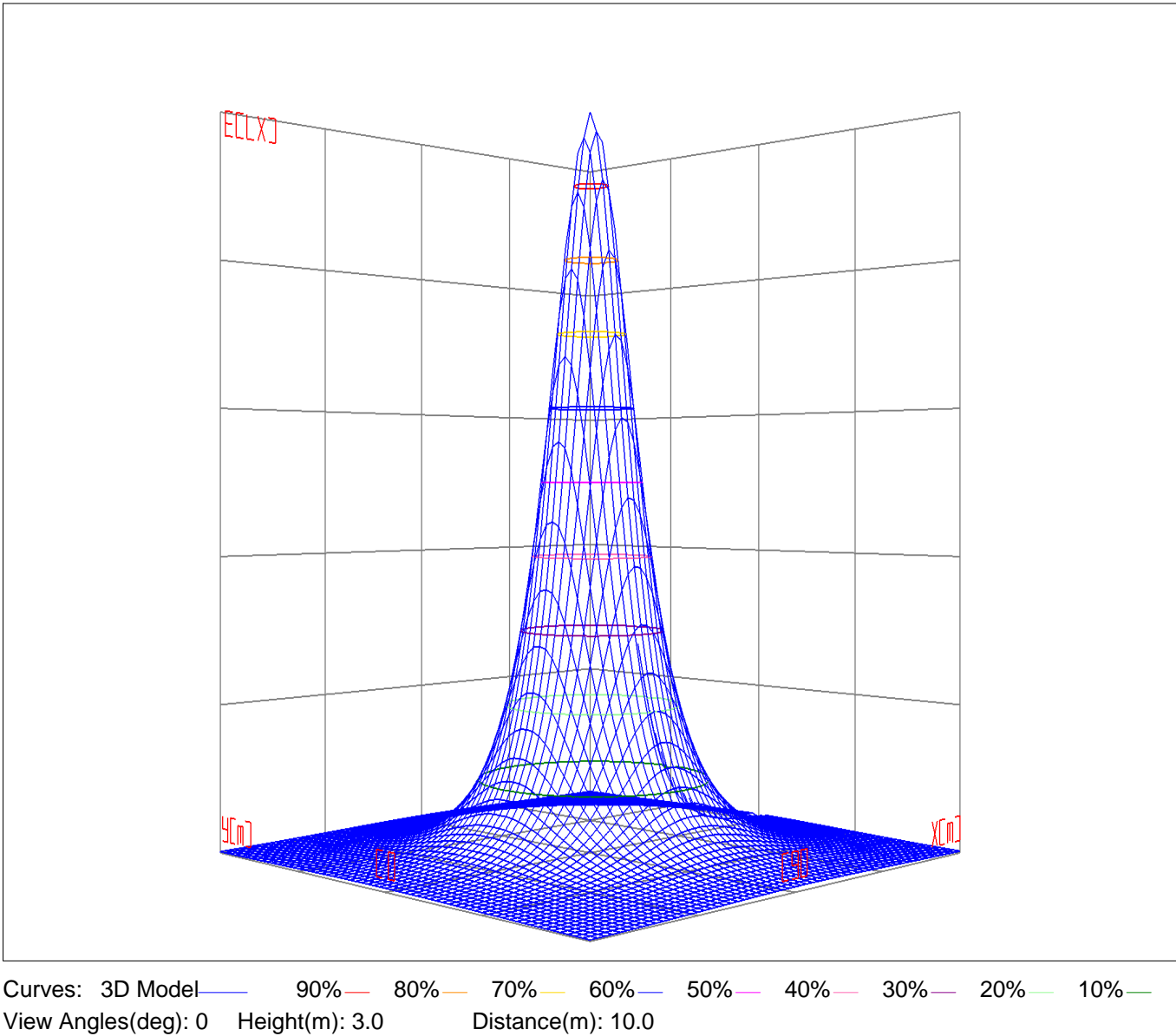


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 49.86
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED364 (4000K 14W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

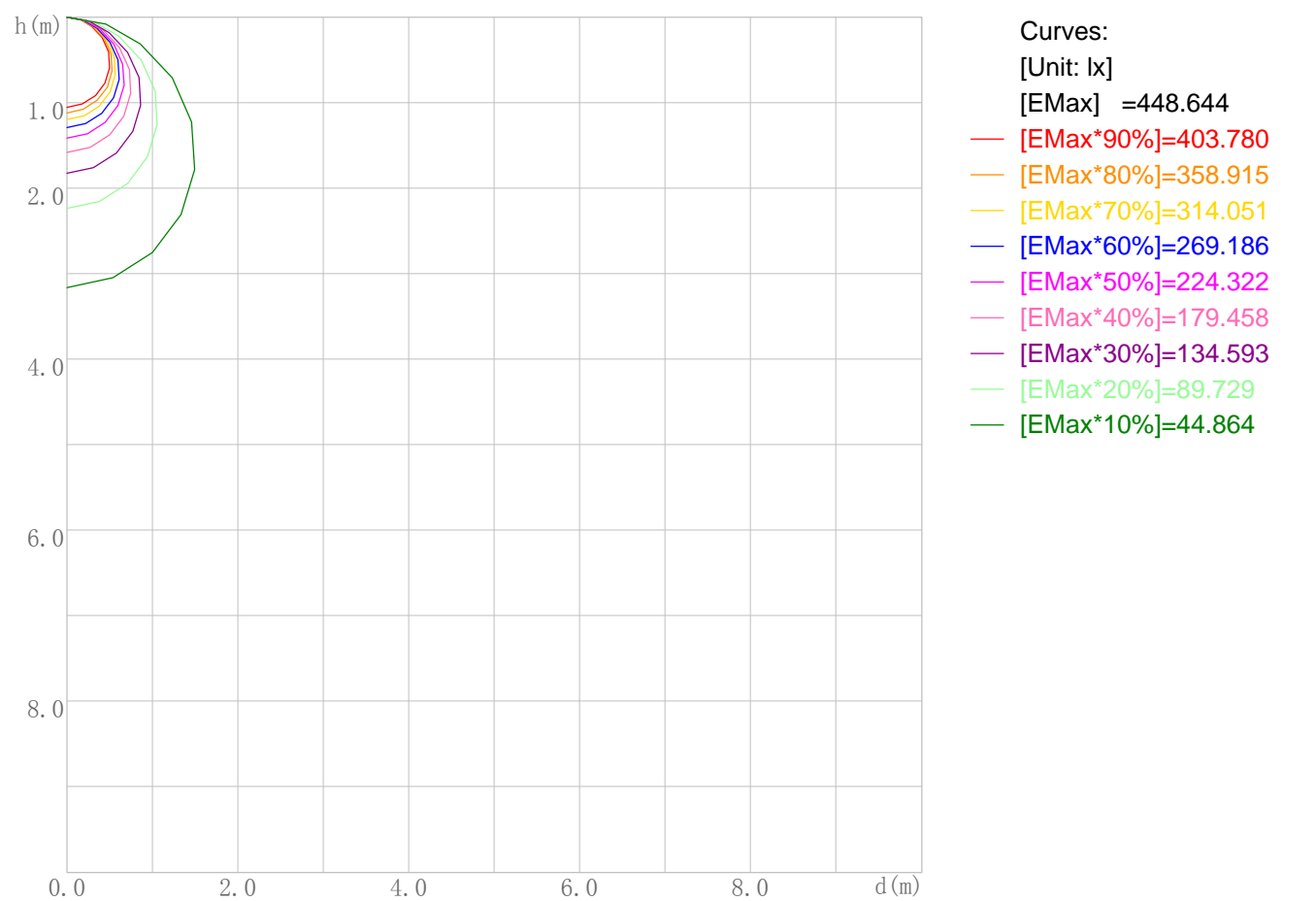
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED364 (4000K 14W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

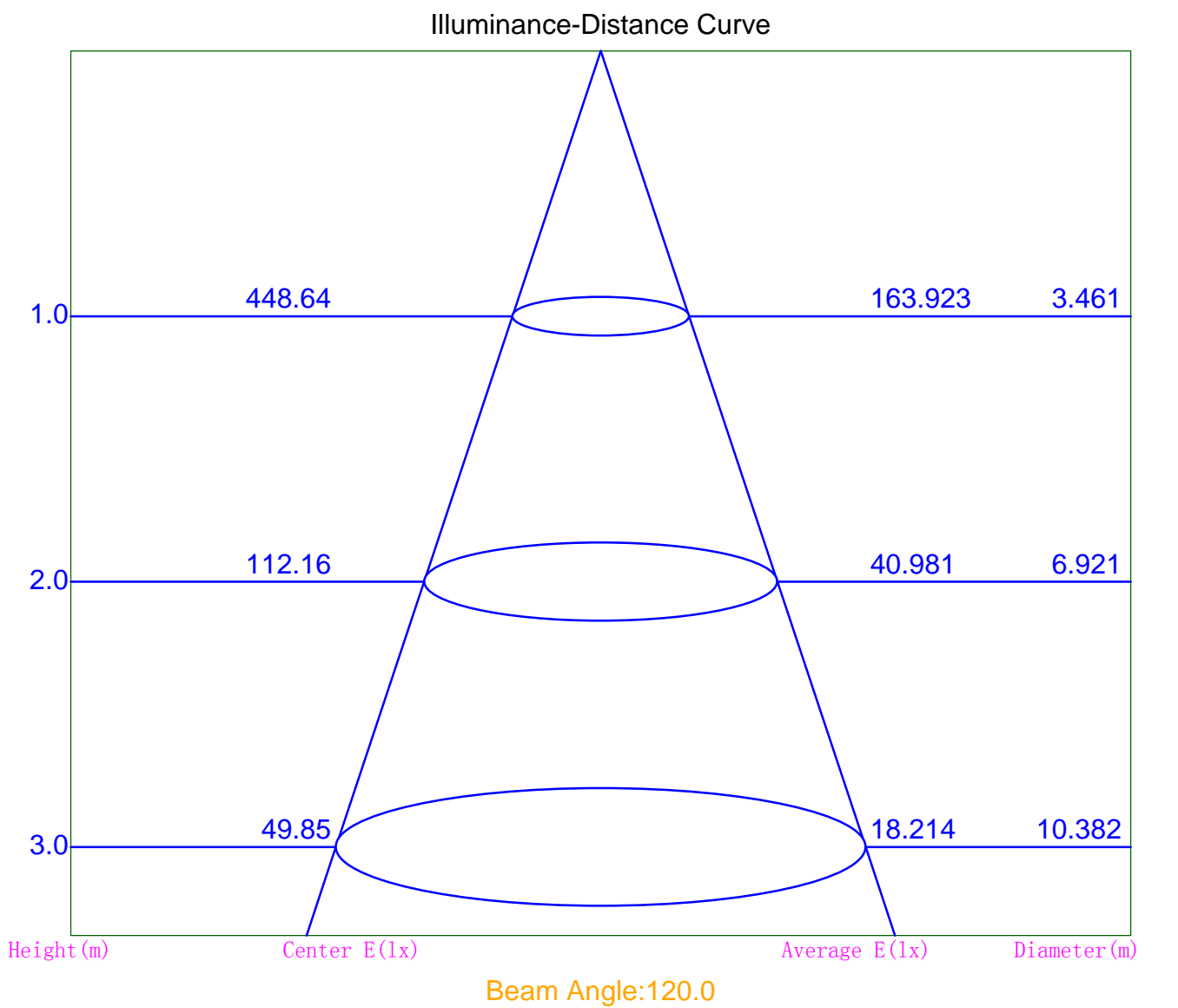
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:448.64lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:448.644cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED364 (4000K 14W)	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 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

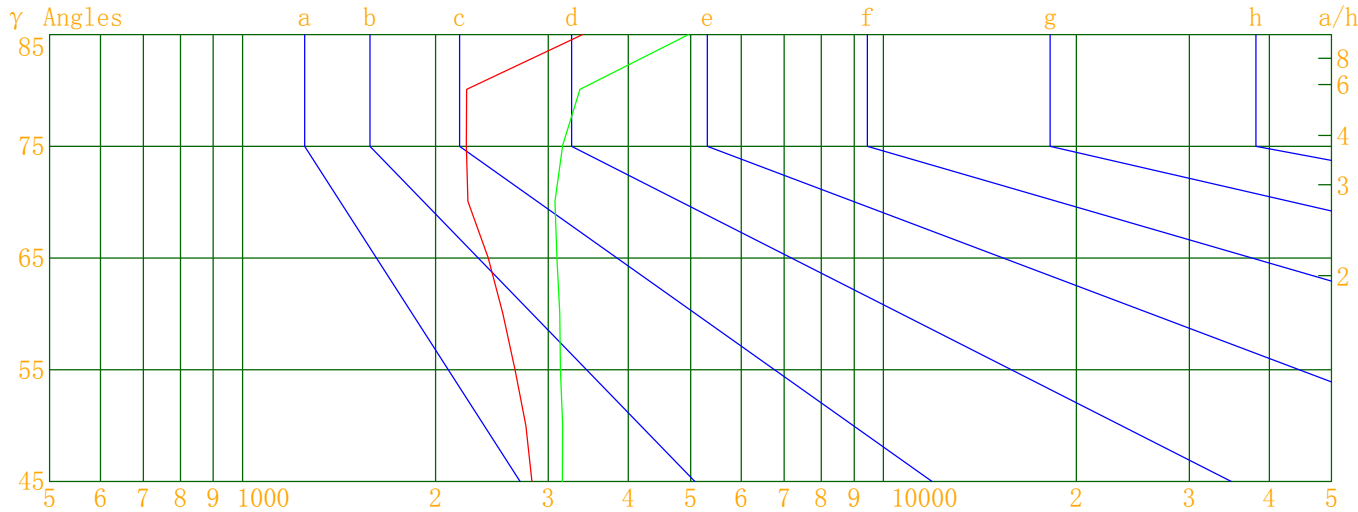
Glare Grade Table

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	2829	2766	2660	2548	2417	2248	2236	2237	3392
C90	3154	3160	3133	3126	3092	3073	3158	3360	4965

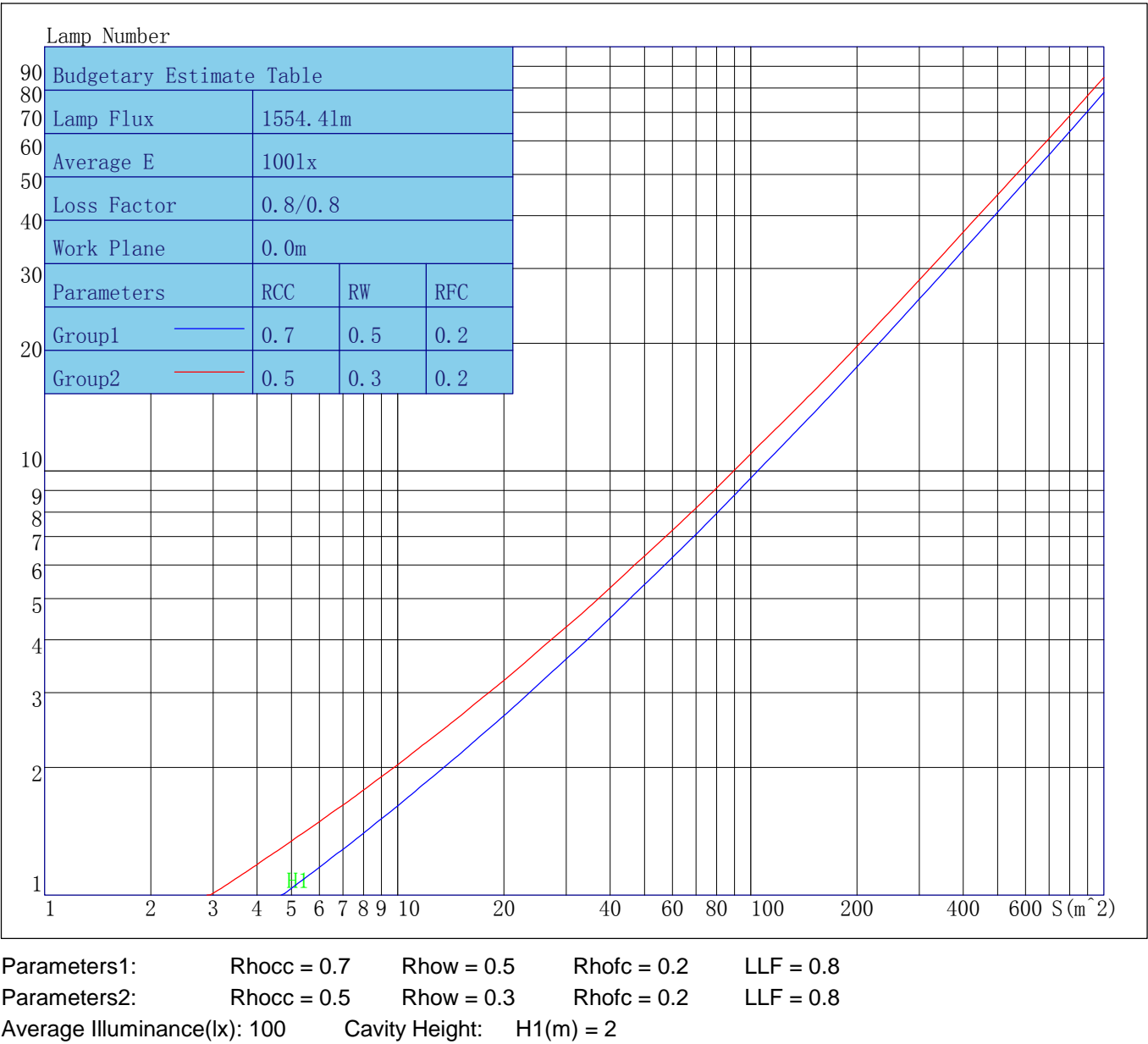
Luminance Limiting Curve



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 14W)	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 14W)	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	114	114	114	114	111	111	111	111	104	104	104	98	98	98	93	93	93	91
1	103	98	93	89	99	95	90	87	89	86	83	84	81	79	80	77	75	73
2	93	84	77	71	90	82	75	70	77	72	67	73	69	65	69	65	62	60
3	84	73	65	58	81	71	64	57	68	61	56	64	58	54	61	56	52	50
4	77	65	56	49	74	63	55	48	60	53	47	57	51	46	54	49	44	42
5	71	58	49	42	68	56	48	41	53	46	40	51	44	39	48	43	38	36
6	65	52	43	36	63	51	42	36	48	41	35	46	39	34	44	38	34	31
7	60	47	38	32	58	46	38	32	44	36	31	42	35	30	40	34	30	28
8	56	43	34	28	54	42	34	28	40	33	28	38	32	27	36	31	26	24
9	52	39	31	25	51	38	31	25	37	30	25	35	29	24	34	28	24	22
10	49	36	28	23	47	35	28	23	34	27	22	32	26	22	31	26	22	20

Unified Glare Rating Table

Lum. Name: LED364 (4000K 14W)	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	17.0	20.6	18.1	21.6	22.6	18.1	21.6	19.1	22.6	23.6
	Y=3H	21.2	24.8	22.3	25.8	26.8	23.1	26.7	24.2	27.7	28.7
	Y=4H	23.9	27.0	25.0	28.1	29.1	26.3	29.5	27.4	30.5	31.5
	Y=6H	25.8	28.9	26.9	29.9	30.9	28.8	31.9	29.9	32.9	33.9
	Y=8H	26.7	29.8	27.8	30.8	31.8	30.1	33.1	31.2	34.1	35.1
	Y=12H	27.8	30.8	28.9	31.8	32.8	31.5	34.5	32.5	35.5	36.5
X=4H	Y=2H	18.9	22.0	19.9	23.0	24.0	19.4	22.5	20.5	23.6	24.6
	Y=3H	23.3	26.5	24.4	27.5	28.5	24.7	27.8	25.7	28.9	29.9
	Y=4H	24.6	26.6	25.9	27.8	29.1	26.5	28.4	27.8	29.7	30.9
	Y=6H	27.1	28.9	28.4	30.1	31.4	29.5	31.3	30.9	32.6	33.8
	Y=8H	28.3	30.1	29.7	31.4	32.6	31.1	32.9	32.5	34.2	35.4
	Y=12H	28.9	30.3	30.4	31.8	33.1	32.1	33.5	33.5	35.0	36.3
X=8H	Y=4H	25.3	27.0	26.6	28.3	29.6	26.9	28.7	28.3	30.0	31.2
	Y=6H	27.3	28.6	28.8	30.0	31.3	29.5	30.7	31.0	32.1	33.5
	Y=8H	28.5	29.5	30.0	31.0	32.4	30.9	31.9	32.5	33.4	34.8
	Y=12H	30.4	31.3	32.0	32.8	34.2	33.2	34.2	34.8	35.7	37.1
X=12H	Y=4H	24.5	26.0	26.0	27.4	28.7	26.1	27.6	27.6	29.0	30.3
	Y=6H	27.1	28.1	28.6	29.6	31.0	29.1	30.2	30.7	31.7	33.1
	Y=8H	28.9	29.8	30.4	31.3	32.7	31.2	32.1	32.7	33.6	35.0
Variations with the objerver position at spacings											
S=1.0H		2.4/-0.6					2.3/-1.6				
S=1.5H		-0.6/-18.3					-1.6/-20.2				
S=2.0H		-0.6/-18.3					-1.6/-20.2				

IES Indoor Report
Photometric Filename: LED364 (4000K 14W).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	448.64	448.64	448.64	448.64	448.64	448.64	448.64	448.64	448.64	448.64	448.64	448.64
γ 10.0	435.67	436.40	438.78	441.96	444.91	446.94	450.75	449.11	446.42	443.04	439.73	437.29
γ 20.0	408.58	410.64	415.90	422.86	429.42	433.86	440.23	437.47	431.99	424.82	418.14	413.18
γ 30.0	368.29	371.76	379.76	390.41	400.37	407.34	416.46	412.33	404.00	393.25	383.08	375.83
γ 40.0	315.86	320.63	331.23	345.32	358.41	367.63	379.25	373.99	363.06	348.96	335.58	326.24
γ 50.0	252.66	258.58	271.59	288.65	304.64	315.75	329.58	323.24	310.06	292.98	276.83	265.49
γ 60.0	181.07	187.96	202.62	222.11	240.37	253.12	268.53	261.49	246.37	226.86	208.50	195.71
γ 70.0	109.26	115.63	129.72	149.36	168.29	181.88	198.25	190.83	174.59	154.34	135.73	123.36
γ 80.0	55.21	59.06	68.43	82.93	98.43	110.06	124.88	117.91	103.74	86.94	73.18	64.45
γ 90.0	28.84	29.90	33.30	40.07	48.44	55.39	64.64	60.10	51.44	42.41	35.80	32.29
γ 100.0	21.99	21.15	20.96	22.77	25.13	27.93	31.75	29.76	26.76	24.25	22.37	22.35
γ 110.0	14.06	17.81	16.08	17.30	17.85	20.48	16.26	20.88	18.89	18.41	17.25	18.82
γ 120.0	11.84	14.75	12.27	11.67	14.00	17.69	14.62	18.00	14.44	12.24	13.05	15.60
γ 130.0	11.50	11.69	9.32	9.74	11.62	14.61	15.13	15.30	12.01	9.97	10.19	12.46
γ 140.0	8.26	8.59	6.89	7.51	9.37	11.30	12.18	12.13	9.73	7.78	7.49	9.18
γ 150.0	5.32	5.69	4.94	4.98	7.14	8.22	8.97	8.81	7.32	5.08	5.33	6.10
γ 160.0	3.59	3.68	3.62	3.96	4.99	5.44	5.99	5.83	5.16	3.96	3.84	3.85
γ 170.0	3.58	3.55	3.52	3.49	3.56	3.63	3.90	3.80	3.66	3.53	3.55	3.56
γ 180.0	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62