

Indoor Luminaire Photometric Data

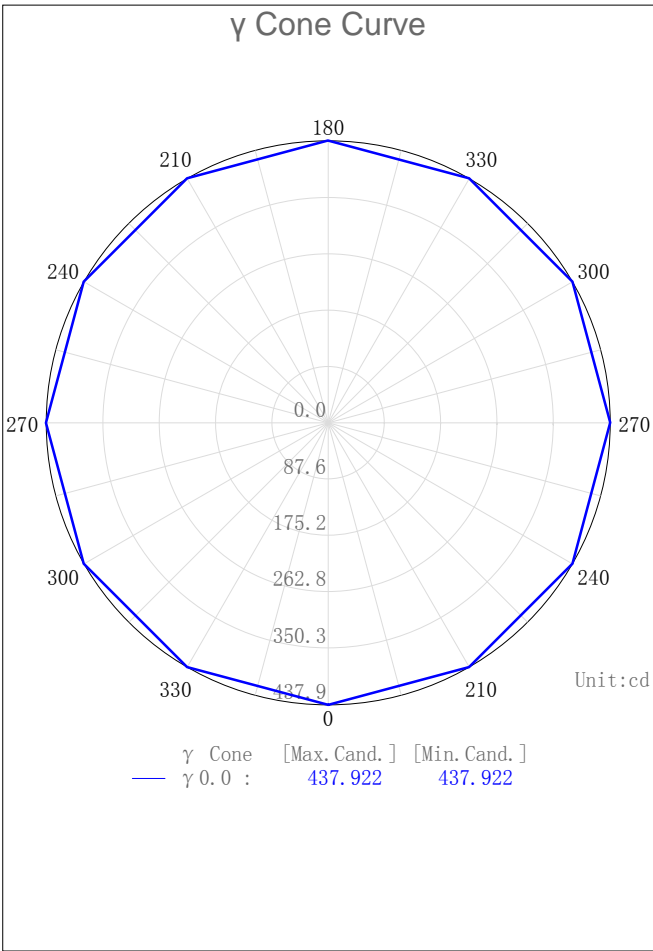
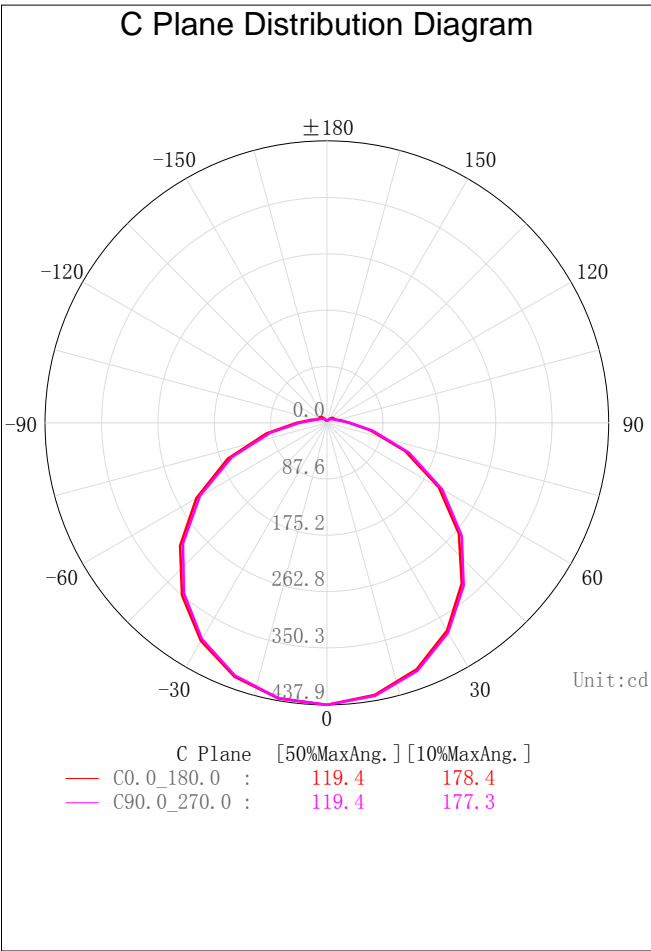
Description Information

Luminary Name: LED364 (3000K 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

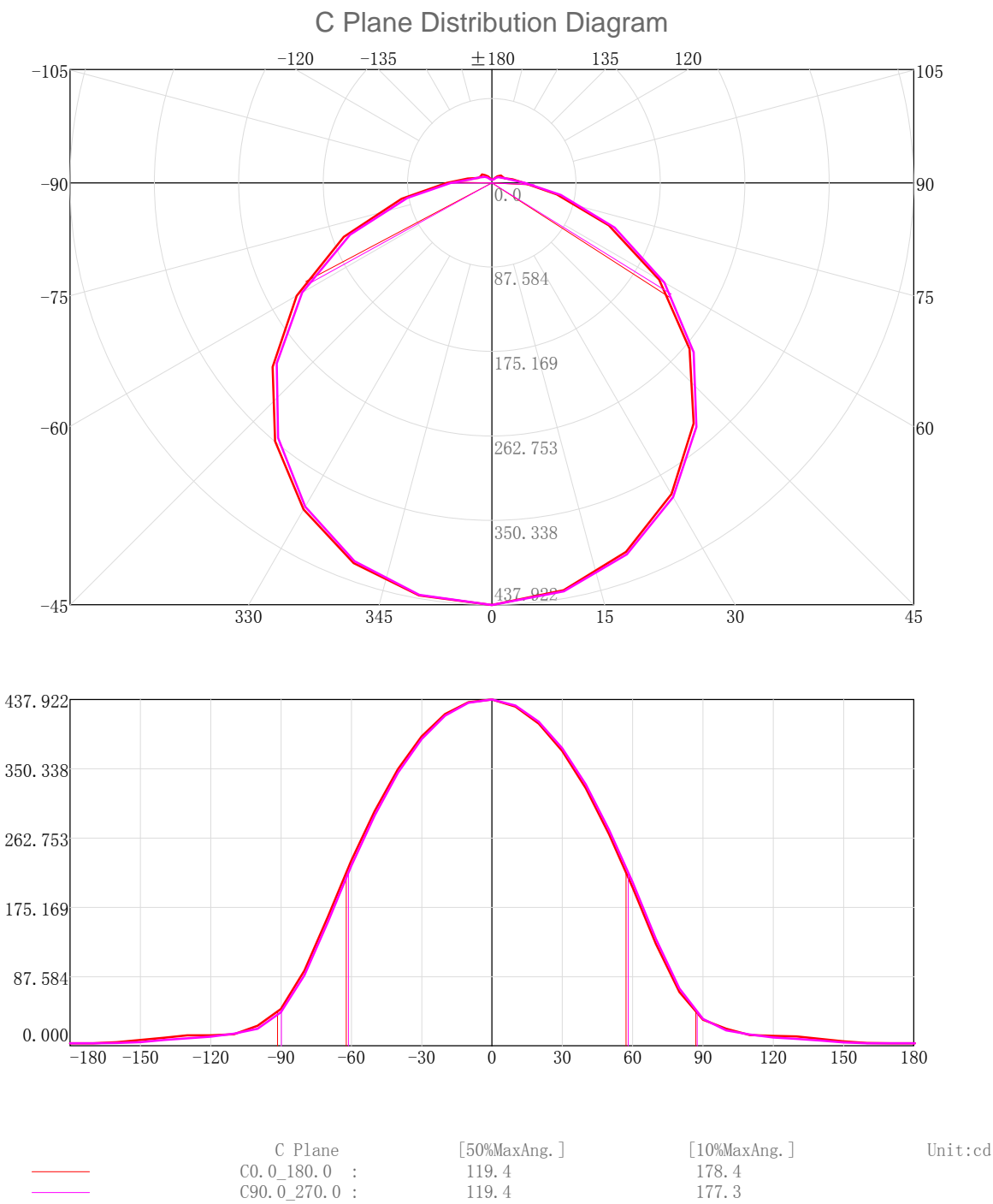
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1600.000	Luminary Flux(lm): 1498.273	Field Angle(10%Imax): 178.4(°)
Rated Power(W):	Luminary Efficiency: 93.64%	Down Lumens&Percent: 1402.767lm 93.63%
Rated Voltage(V):	Luminary EER(lm/W): 115.163	Up Lumens&Percent: 95.506lm 6.37%
Tested Power(W): 13.010	Max. Candela(cd): 437.922	S/MH: C0_a180=1.300 C90_270=1.301
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.3, 0.061, 0.923	Beam Angle(50%Imax): 119.4(°)	ErP Φuse(120°): 1038.037lm
Lamp Size (W*L*H):0.340m*0.340m*0.078m	Left=-62.1°, Right=57.2°	IRF (%): 105.500

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

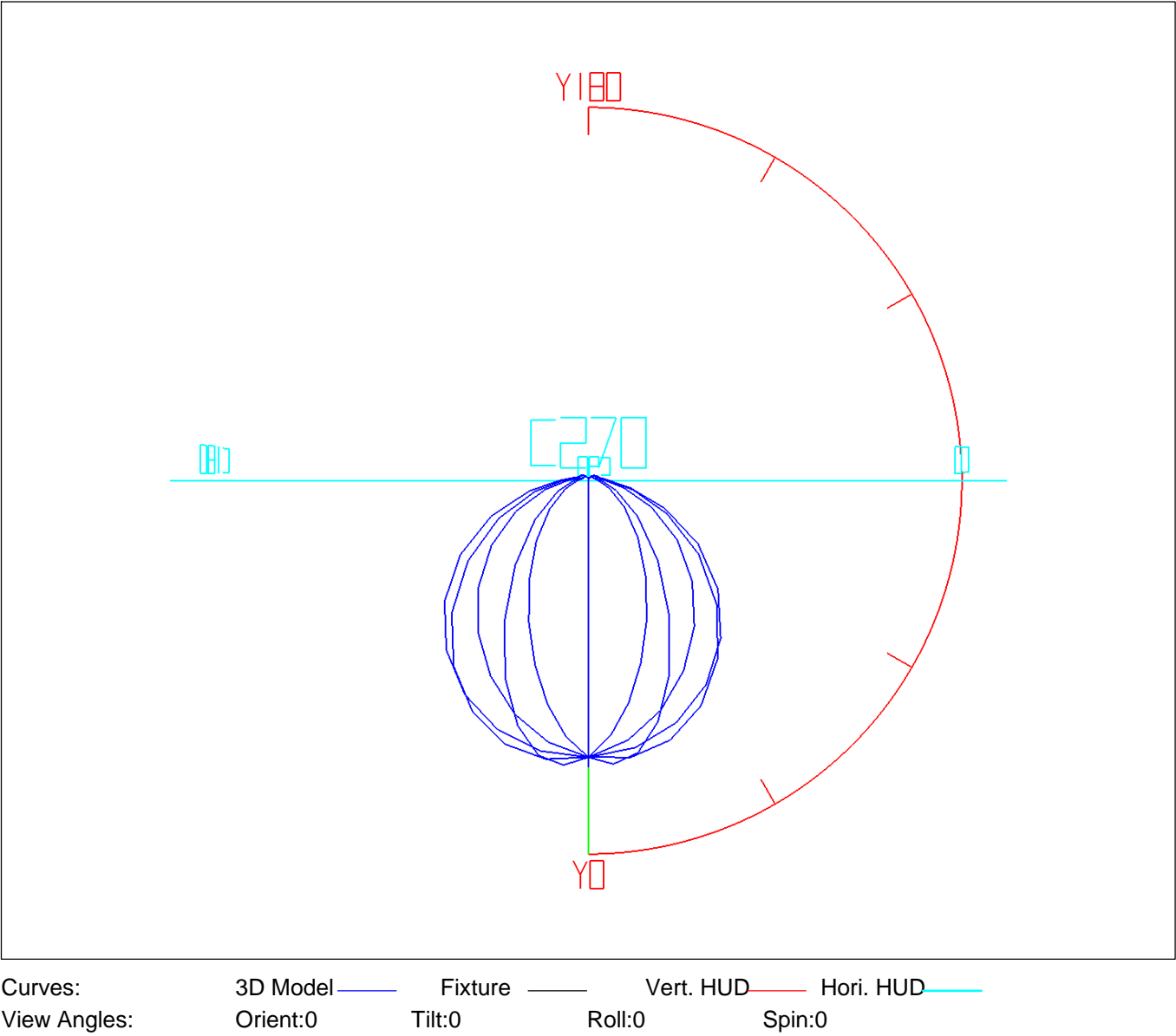
Lum. Name:	LED364 (3000K 14W)	Lum. Catalog:		Test ID:	20230424
Lamp Name:		Lamp Catalog:	LED	Test Lab:	
Manufacture:		Test Machine:	GON-2000	Test Date:	2023/04/24



3D Light Intensity Distribution Modal

Lum. Name: LED364 (3000K 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

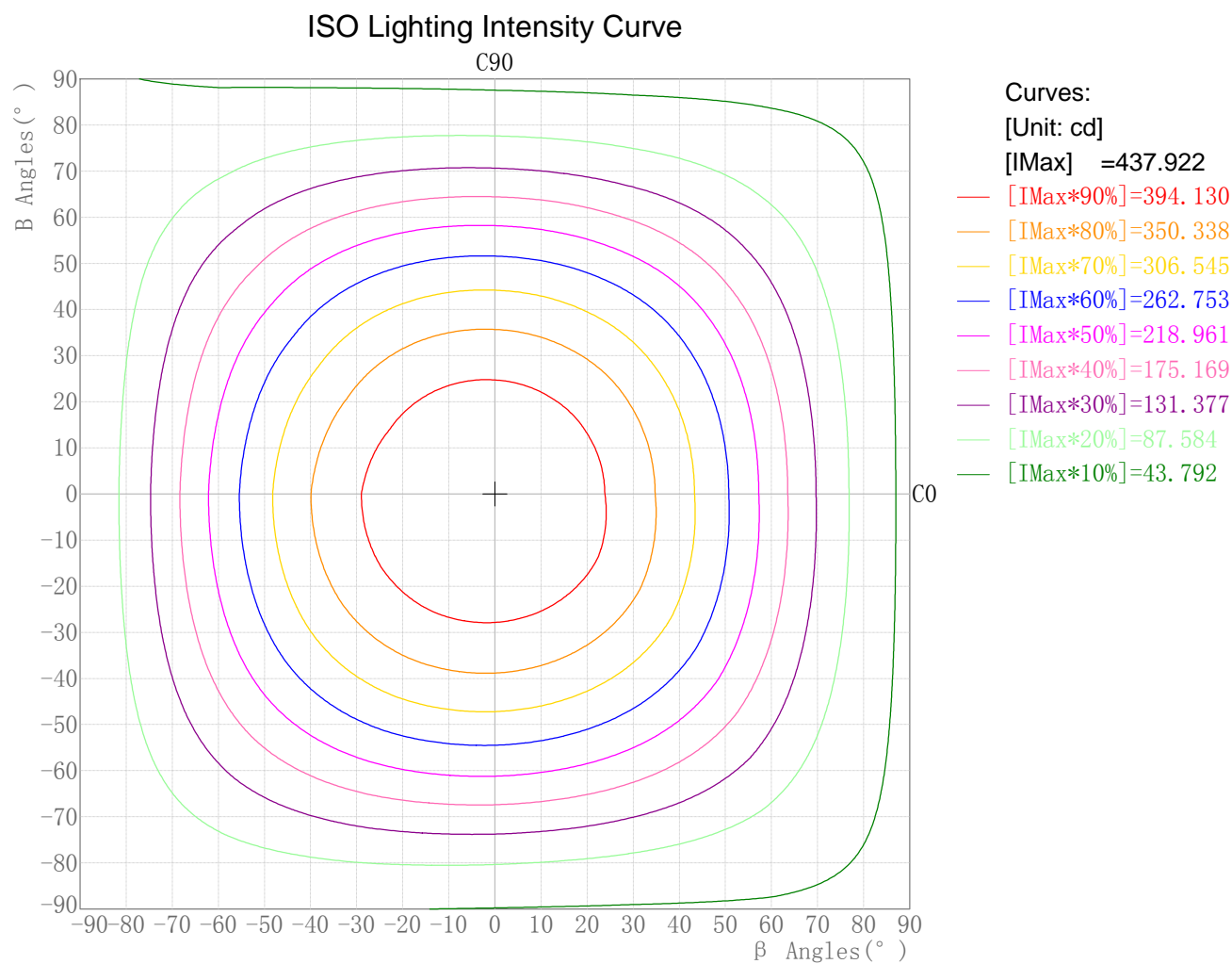


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	41. 52	41. 52	2. 60	2. 60
10. 0-20. 0	119. 88	161. 41	7. 49	10. 09
20. 0-30. 0	184. 19	345. 60	11. 51	21. 60
30. 0-40. 0	226. 19	571. 79	14. 14	35. 74
40. 0-50. 0	240. 27	812. 07	15. 02	50. 75
50. 0-60. 0	224. 20	1036. 27	14. 01	64. 77
60. 0-70. 0	180. 41	1216. 69	11. 28	76. 04
70. 0-80. 0	120. 37	1337. 06	7. 52	83. 57
80. 0-90. 0	65. 71	1402. 77	4. 11	87. 67
90. 0-100. 0	33. 25	1436. 02	2. 08	89. 75
100. 0-110. 0	20. 06	1456. 08	1. 25	91. 01
110. 0-120. 0	14. 68	1470. 76	0. 92	91. 92
120. 0-130. 0	11. 19	1481. 94	0. 70	92. 62
130. 0-140. 0	7. 84	1489. 79	0. 49	93. 11
140. 0-150. 0	4. 70	1494. 48	0. 29	93. 41
150. 0-160. 0	2. 39	1496. 87	0. 15	93. 55
160. 0-170. 0	1. 07	1497. 94	0. 07	93. 62
170. 0-180. 0	0. 33	1498. 27	0. 02	93. 64

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED364 (3000K 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24



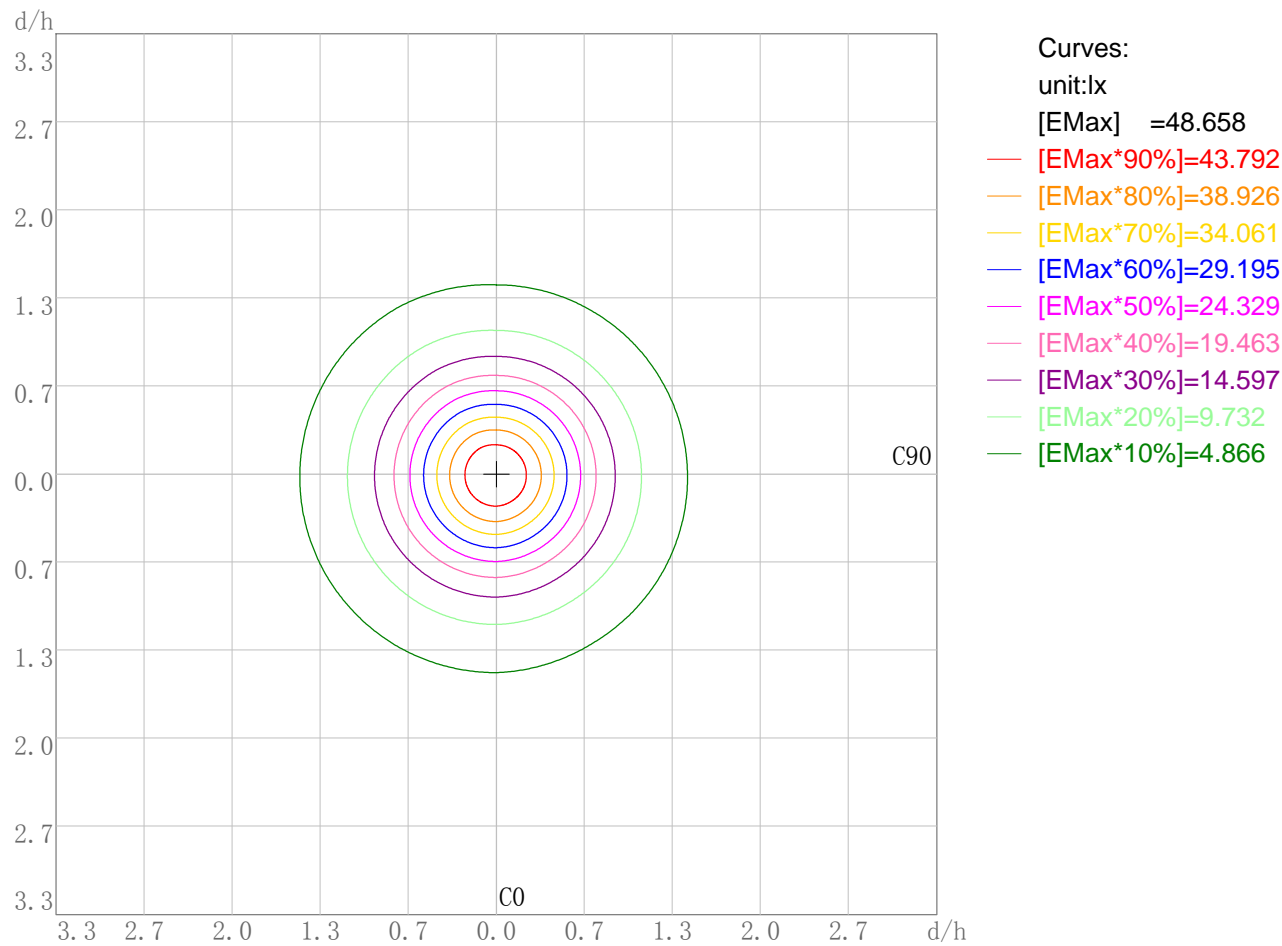
Maximum Light Intensity(cd): 437.92

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED364 (3000K 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

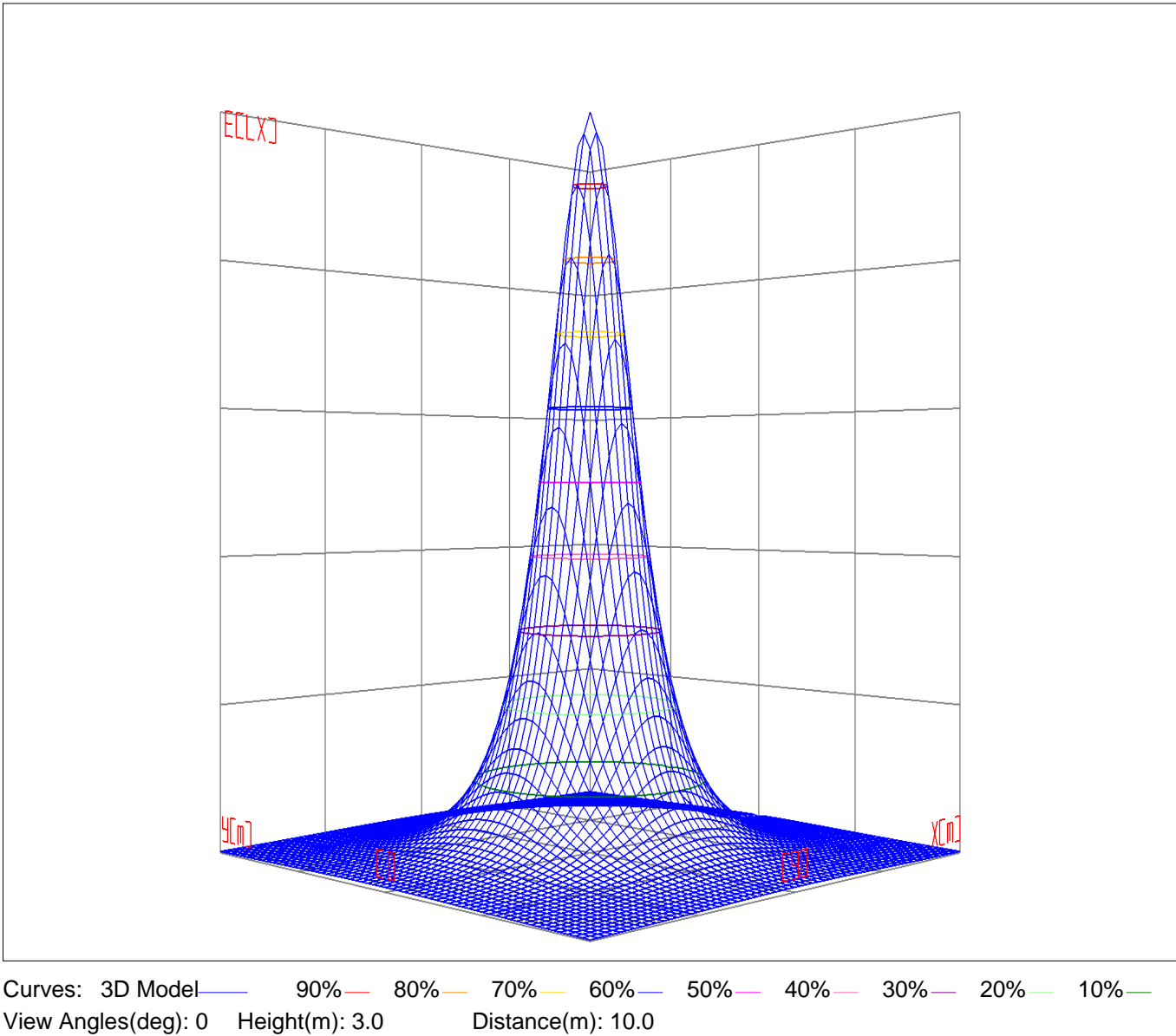


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 48.66
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED364 (3000K 14W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

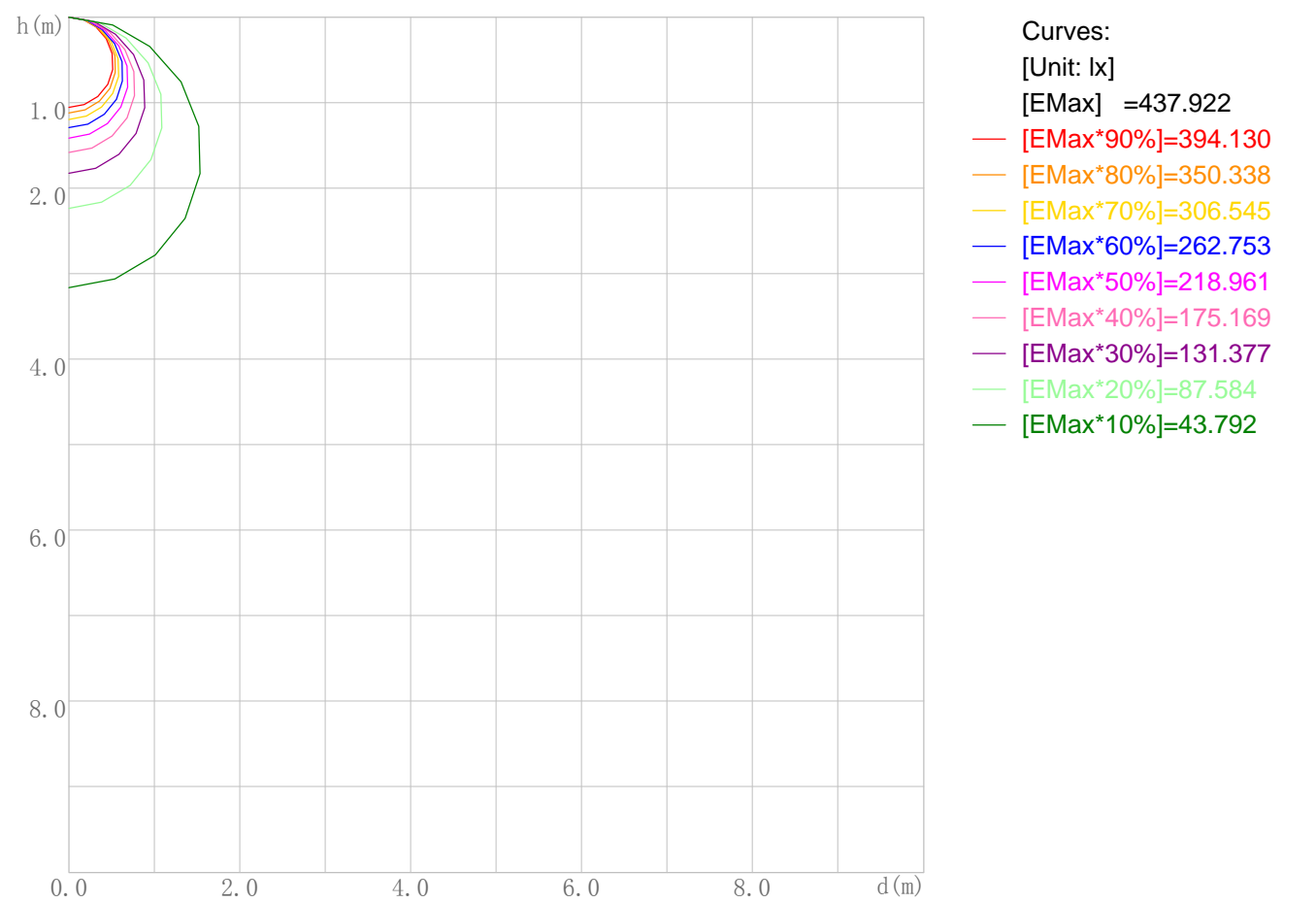
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED364 (3000K 14W)	Lum. Catelog:	Test ID: 20230424
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

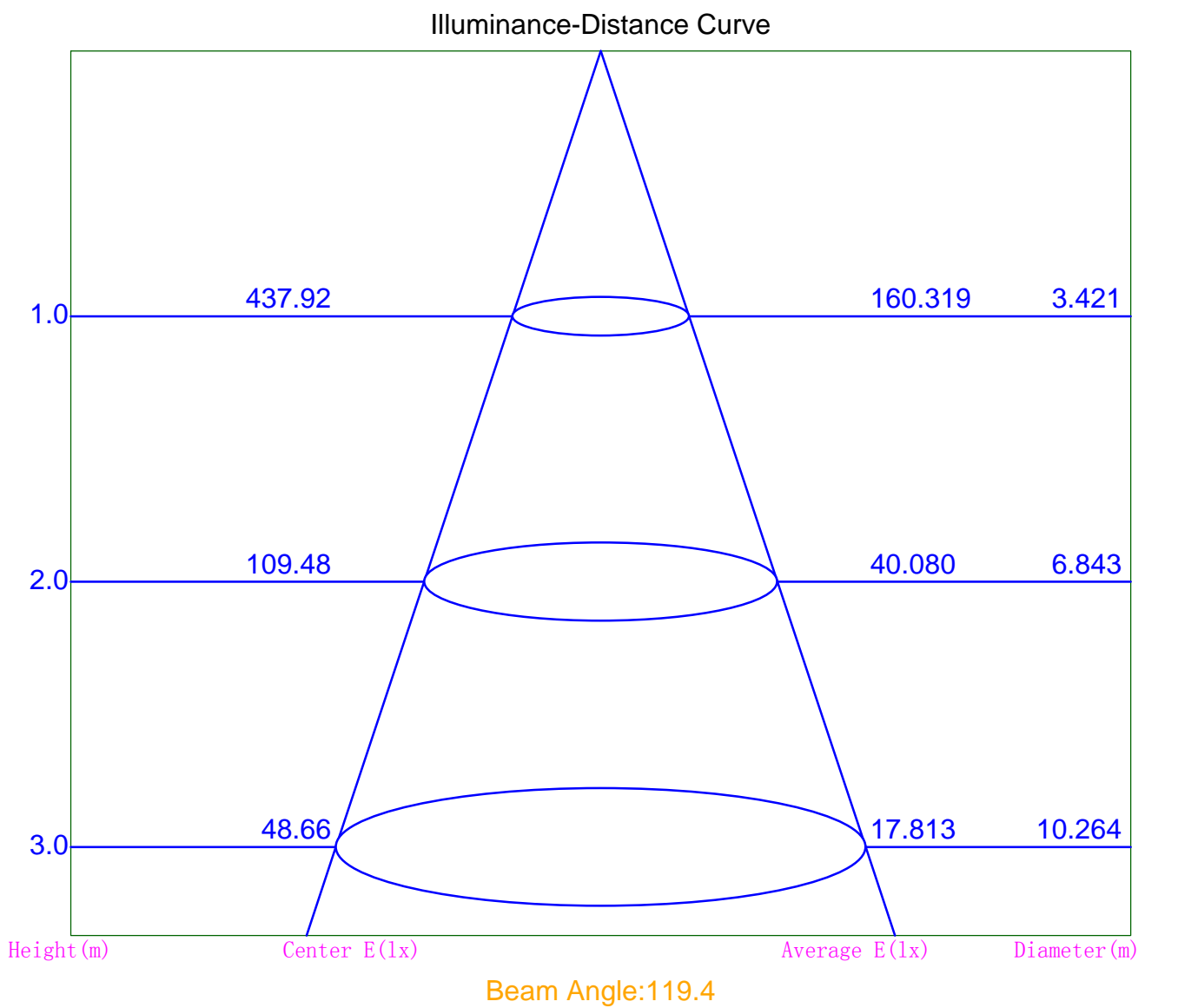
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:437.92lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:437.922cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED364 (3000K 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 (3000K 14W)	Lum. Catalog:	Test ID: 20230424
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/24

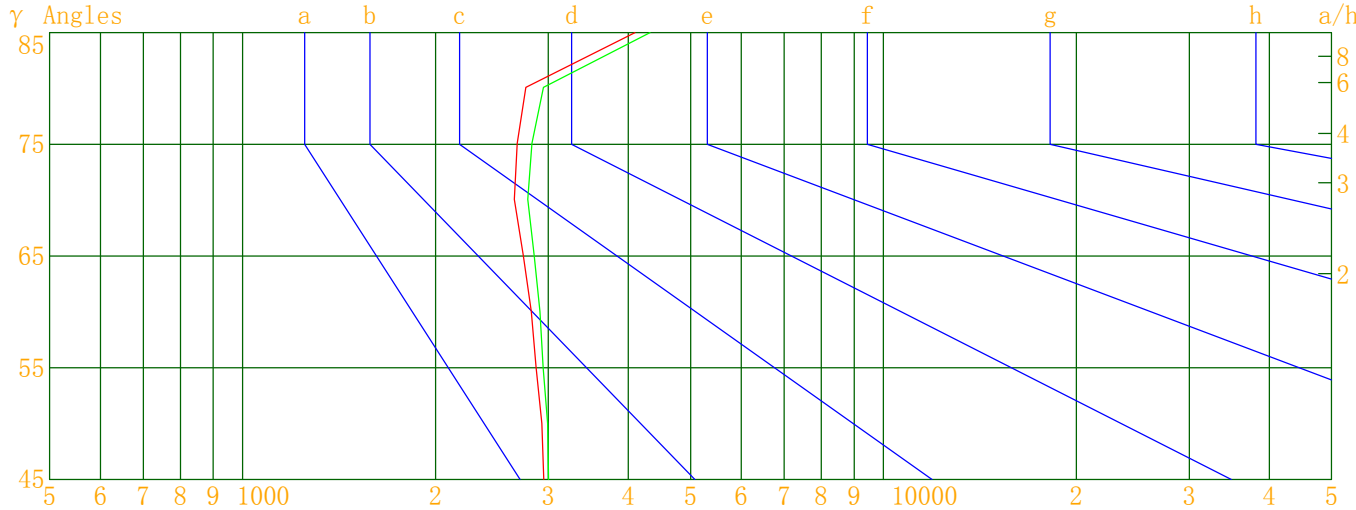
Glare Grade Table

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	2953	2931	2872	2821	2743	2655	2682	2767	4095
C90	3004	2992	2945	2911	2850	2786	2830	2948	4326

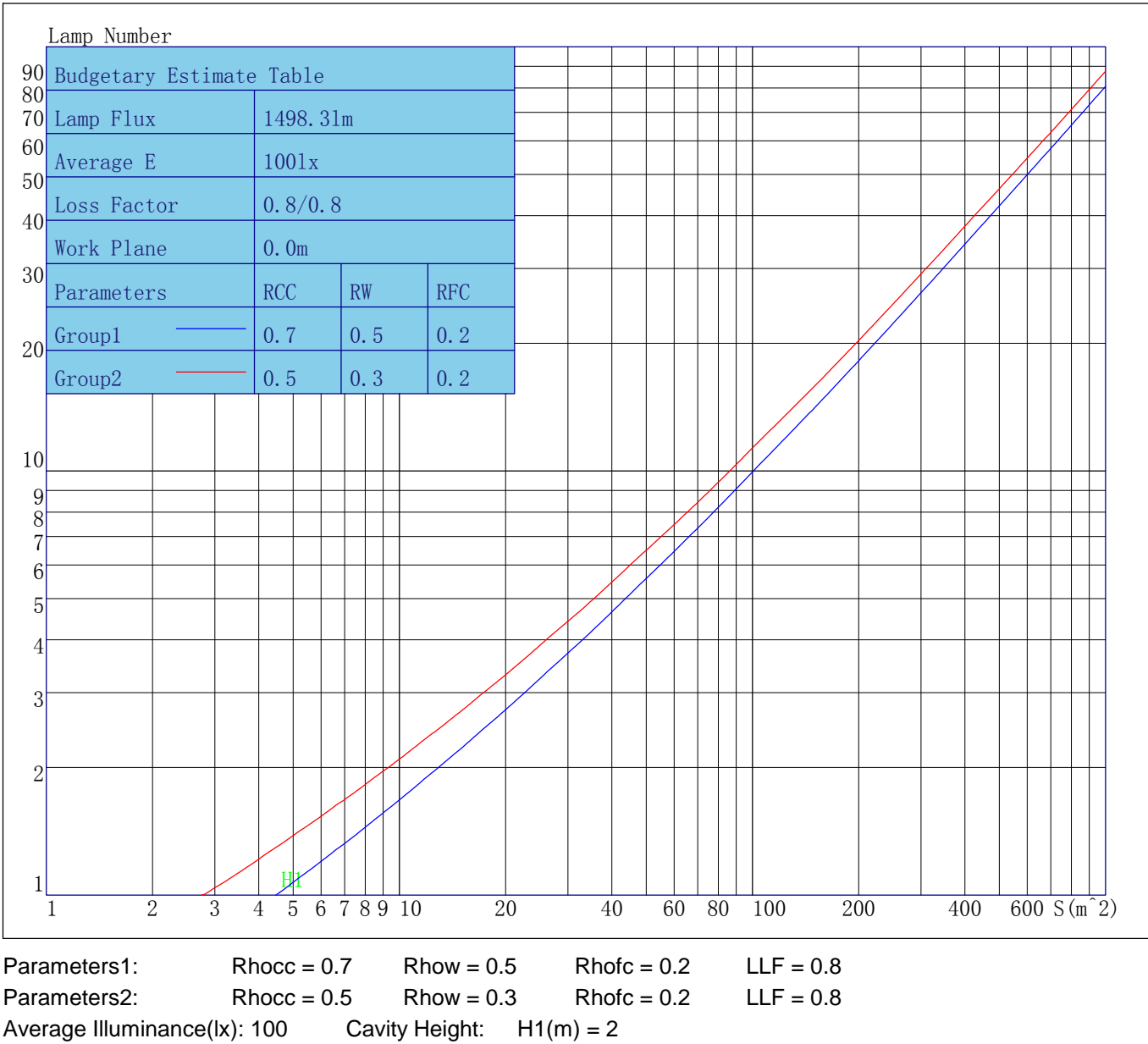
Luminance Limiting Curve



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 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 (3000K 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	110	110	110	110	107	107	107	107	101	101	101	95	95	95	90	90	90	88
1	99	94	90	86	96	91	87	84	86	83	80	82	79	76	77	75	73	71
2	90	81	75	69	87	79	73	67	75	70	65	71	66	63	67	64	60	58
3	81	71	63	57	79	69	62	56	65	59	54	62	57	52	59	54	51	48
4	74	63	54	48	72	61	53	47	58	51	46	55	49	44	52	47	43	41
5	68	56	47	41	66	54	46	40	52	45	39	49	43	38	47	42	37	35
6	63	50	42	35	61	49	41	35	47	39	34	44	38	33	42	37	33	31
7	58	45	37	31	56	44	36	31	42	35	30	40	34	29	39	33	29	27
8	54	41	33	28	52	40	33	27	39	32	27	37	31	26	35	30	26	24
9	51	38	30	25	49	37	30	25	35	29	24	34	28	24	33	27	23	21
10	47	35	27	22	46	34	27	22	33	26	22	32	26	21	30	25	21	19

Unified Glare Rating Table

Lum. Name: LED364 (3000K 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	18.4	21.9	19.4	22.9	23.9	18.5	22.1	19.6	23.1	24.1
	Y=3H	23.1	26.6	24.1	27.6	28.6	23.4	26.9	24.4	27.9	28.9
	Y=4H	26.1	29.2	27.1	30.2	31.2	26.4	29.6	27.5	30.6	31.6
	Y=6H	28.3	31.3	29.3	32.3	33.3	28.7	31.8	29.8	32.8	33.8
	Y=8H	29.3	32.4	30.4	33.4	34.4	29.9	32.9	30.9	33.9	34.9
	Y=12H	30.5	33.5	31.6	34.5	35.5	31.1	34.1	32.1	35.1	36.1
X=4H	Y=2H	20.1	23.2	21.1	24.2	25.2	20.1	23.3	21.2	24.3	25.3
	Y=3H	25.0	28.2	26.1	29.2	30.2	25.2	28.4	26.3	29.4	30.4
	Y=4H	26.6	28.6	27.9	29.8	31.0	26.9	28.8	28.2	30.1	31.3
	Y=6H	29.4	31.2	30.7	32.4	33.7	29.7	31.5	31.1	32.8	34.0
	Y=8H	30.8	32.6	32.2	33.8	35.0	31.2	33.0	32.6	34.2	35.4
	Y=12H	31.6	33.0	33.0	34.4	35.7	32.0	33.4	33.4	34.8	36.1
X=8H	Y=4H	27.2	28.9	28.5	30.2	31.4	27.5	29.2	28.8	30.5	31.7
	Y=6H	29.5	30.8	31.0	32.2	33.5	29.9	31.1	31.3	32.5	33.8
	Y=8H	30.9	31.8	32.4	33.3	34.7	31.2	32.2	32.7	33.7	35.1
	Y=12H	32.9	33.9	34.5	35.3	36.7	33.3	34.3	34.9	35.7	37.1
X=12H	Y=4H	26.4	27.9	27.8	29.2	30.6	26.7	28.1	28.1	29.5	30.8
	Y=6H	29.2	30.3	30.8	31.7	33.1	29.6	30.6	31.1	32.1	33.4
	Y=8H	31.2	32.1	32.7	33.5	34.9	31.5	32.4	33.0	33.9	35.3
Variations with the objerver position at spacings											
S=1.0H		2.3/-1.0					2.3/-1.2				
S=1.5H		-1.0/-18.8					-1.2/-19.1				
S=2.0H		-1.0/-18.8					-1.2/-19.1				

IES Indoor Report
Photometric Filename: LED364 (3000K 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	437.92	437.92	437.92	437.92	437.92	437.92	437.92	437.92	437.92	437.92	437.92	437.92
γ 10.0	429.07	428.96	429.42	430.34	431.57	432.65	434.62	434.83	434.53	433.86	433.00	432.17
γ 20.0	407.47	407.27	408.11	409.94	412.40	414.71	419.62	419.83	419.05	417.50	415.55	413.57
γ 30.0	372.74	372.39	373.59	376.40	380.00	383.48	391.18	391.50	390.25	387.78	384.66	381.65
γ 40.0	325.72	325.22	326.81	330.45	335.06	339.64	350.00	350.45	348.72	345.44	341.21	337.27
γ 50.0	267.72	267.08	269.00	273.30	278.91	284.34	297.18	297.68	295.63	291.45	286.33	281.46
γ 60.0	200.45	199.77	201.92	206.88	213.13	219.30	234.00	234.69	232.25	227.49	221.62	216.05
γ 70.0	129.05	128.37	130.40	135.43	141.74	148.00	163.52	164.34	161.70	156.70	150.51	144.82
γ 80.0	68.28	67.72	69.10	72.75	77.66	82.55	95.29	95.77	93.63	89.21	84.33	79.85
γ 90.0	33.17	32.66	32.76	34.41	36.82	39.77	46.82	46.69	45.03	42.69	40.09	38.43
γ 100.0	21.93	20.72	19.21	19.76	20.26	22.66	25.46	24.23	22.41	21.94	21.13	22.36
γ 110.0	13.89	17.46	14.44	14.41	15.03	18.61	15.06	18.78	15.53	15.57	15.71	18.62
γ 120.0	12.65	14.82	11.77	10.86	12.53	15.95	13.42	16.27	13.03	11.73	12.74	15.94
γ 130.0	12.12	12.09	9.40	9.08	10.46	13.09	13.51	13.58	10.76	9.75	10.56	13.14
γ 140.0	9.05	9.07	7.18	6.89	8.25	9.94	10.49	10.55	8.47	7.57	8.13	9.96
γ 150.0	6.06	6.18	5.22	4.55	5.95	6.95	7.45	7.46	6.30	4.92	5.91	6.88
γ 160.0	3.87	3.97	3.76	3.58	4.10	4.41	4.83	4.83	4.17	3.73	4.16	4.43
γ 170.0	3.42	3.44	3.40	3.44	3.41	3.44	3.49	3.44	3.43	3.41	3.39	3.44
γ 180.0	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50