

Indoor Luminaire Photometric Data

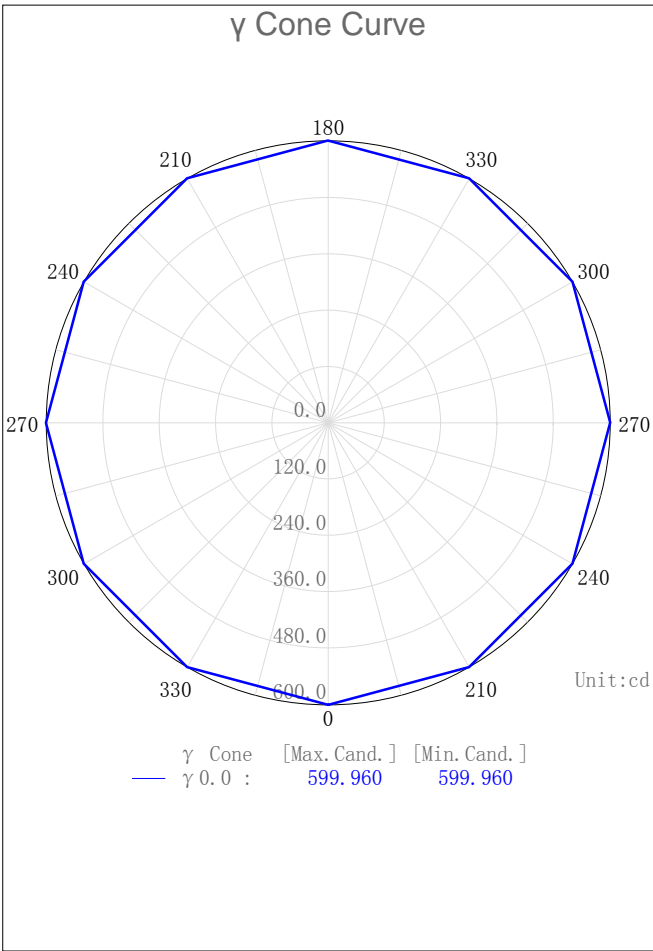
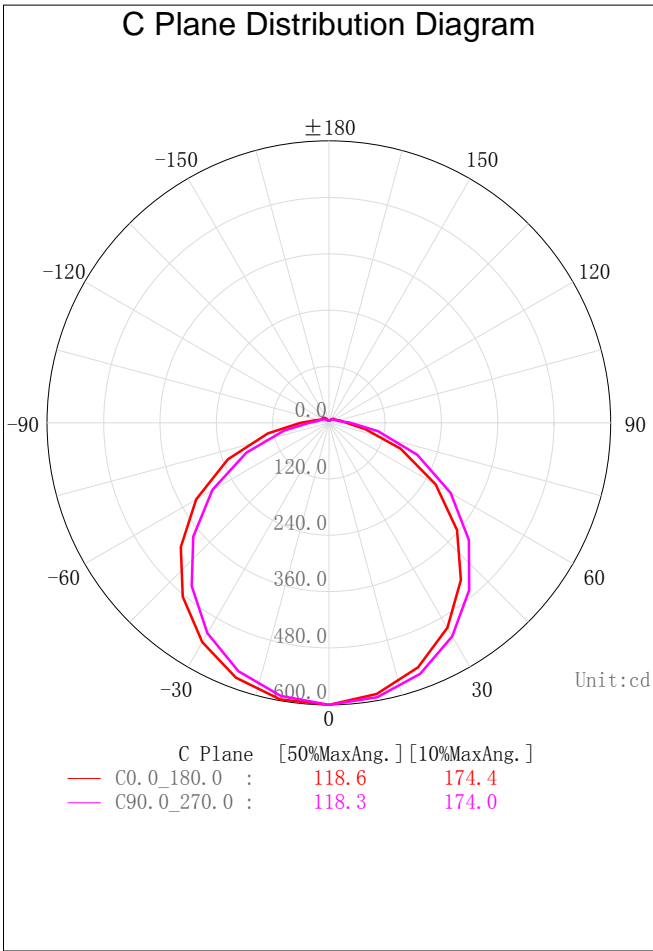
Description Information

Luminary Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Date: 2023/04/27
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

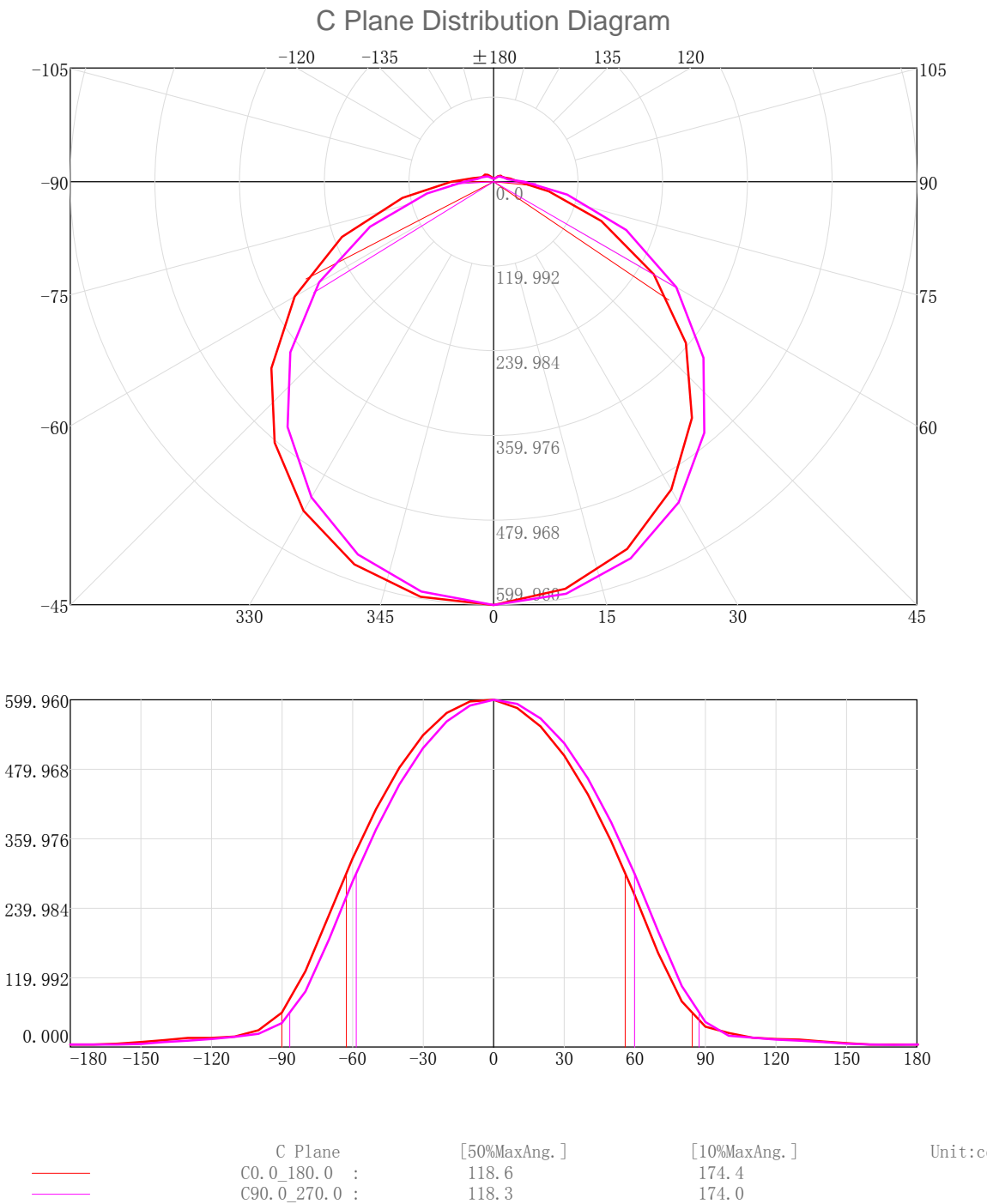
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2100.000	Luminary Flux(lm): 1997.617	Field Angle(10%Imax): 174.4(°)
Rated Power(W):	Luminary Efficiency: 95.12%	Down Lumens&Percent: 1888.448lm 94.54%
Rated Voltage(V):	Luminary EER(lm/W): 119.833	Up Lumens&Percent: 109.169lm 5.46%
Tested Power(W): 16.670	Max. Candela(cd): 599.960	S/MH: C0_a180=1.295 C90_270=1.294
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.3, 0.082, 0.880	Beam Angle(50%Imax): 118.6(°)	ErP Φuse(120°): 1414.447lm
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-62.6°, Right=56.0°	IRF (%): 106.779

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

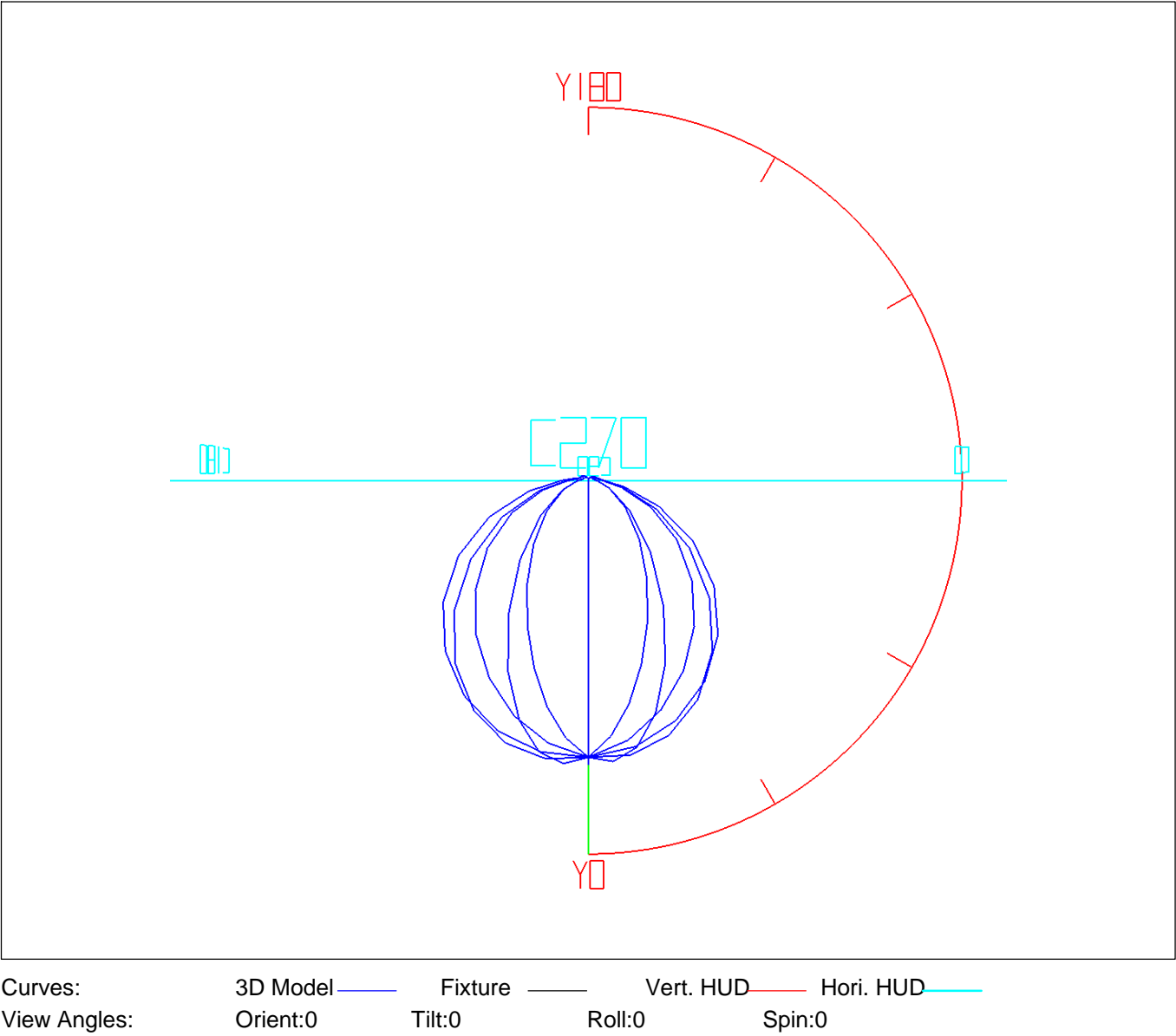
Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



3D Light Intensity Distribution Modal

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
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3D Light Intensity Distribution Modal

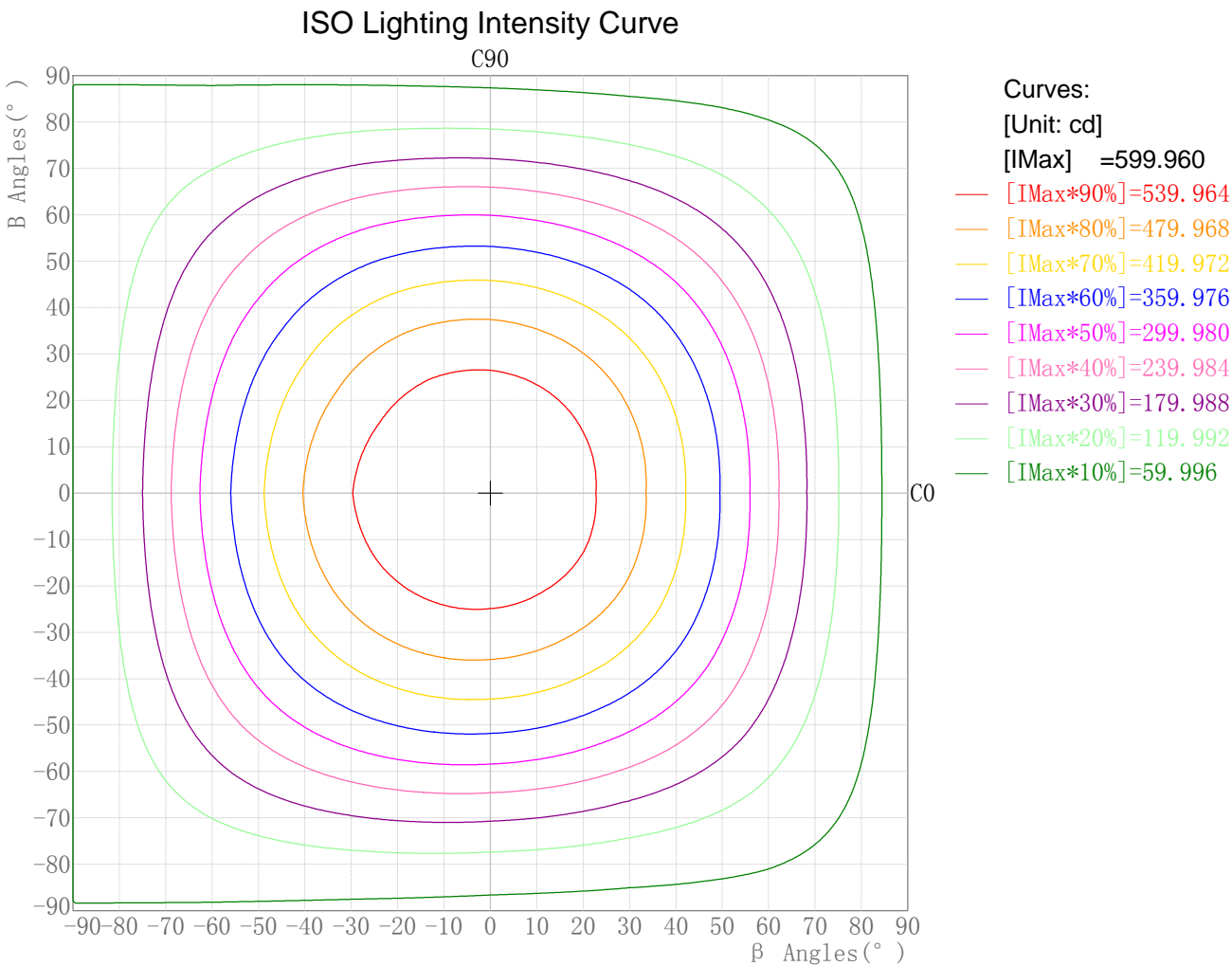


Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	56. 86	56. 86	2. 71	2. 71
10. 0-20. 0	163. 92	220. 78	7. 81	10. 51
20. 0-30. 0	251. 34	472. 13	11. 97	22. 48
30. 0-40. 0	307. 93	780. 06	14. 66	37. 15
40. 0-50. 0	326. 19	1106. 25	15. 53	52. 68
50. 0-60. 0	303. 13	1409. 38	14. 43	67. 11
60. 0-70. 0	241. 76	1651. 14	11. 51	78. 63
70. 0-80. 0	157. 03	1808. 17	7. 48	86. 10
80. 0-90. 0	80. 28	1888. 45	3. 82	89. 93
90. 0-100. 0	37. 18	1925. 62	1. 77	91. 70
100. 0-110. 0	22. 39	1948. 02	1. 07	92. 76
110. 0-120. 0	17. 13	1965. 14	0. 82	93. 58
120. 0-130. 0	13. 07	1978. 22	0. 62	94. 20
130. 0-140. 0	9. 13	1987. 35	0. 43	94. 64
140. 0-150. 0	5. 53	1992. 88	0. 26	94. 90
150. 0-160. 0	2. 91	1995. 79	0. 14	95. 04
160. 0-170. 0	1. 39	1997. 18	0. 07	95. 10
170. 0-180. 0	0. 44	1997. 62	0. 02	95. 12

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



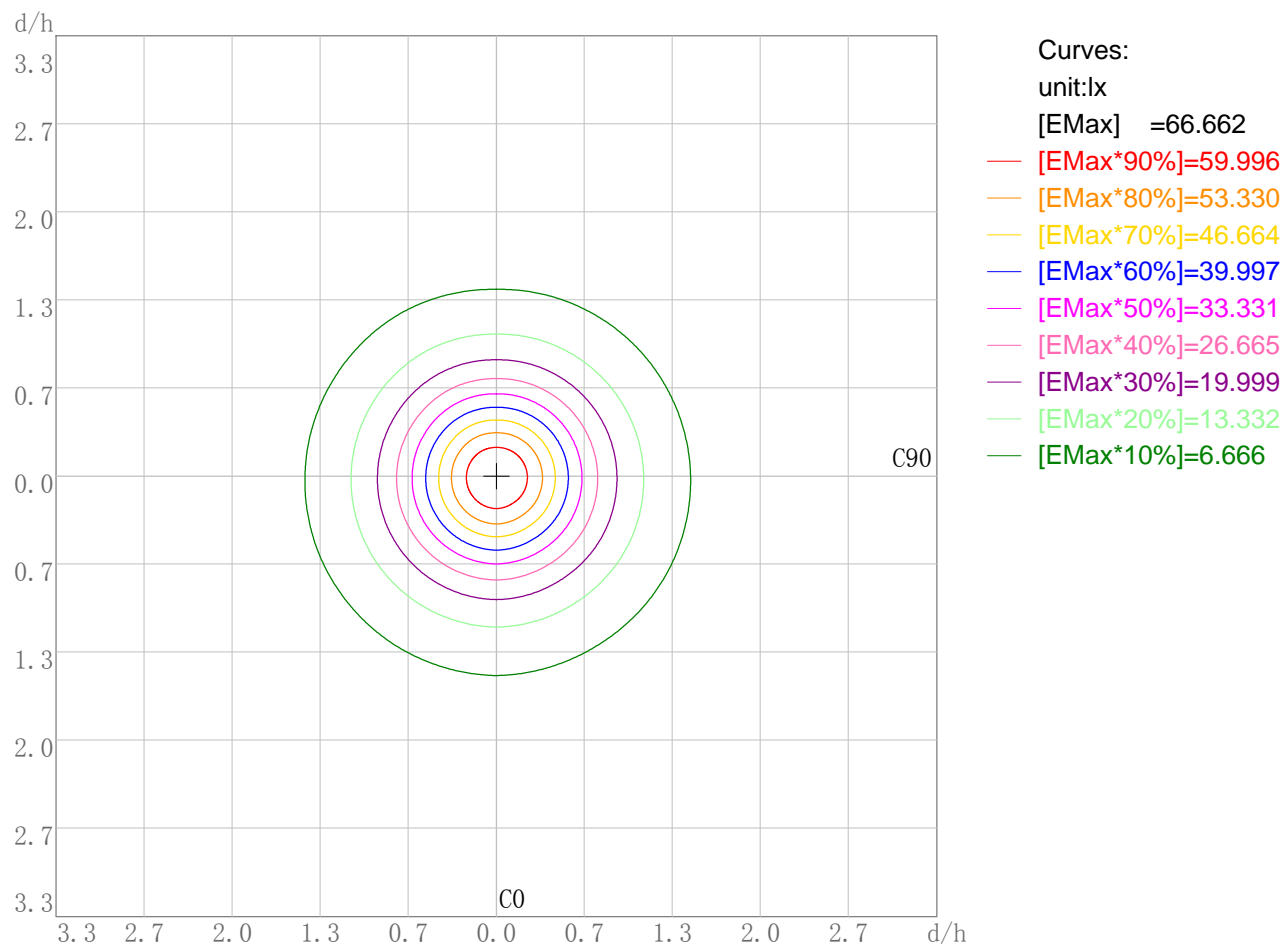
Maximum Light Intensity(cd): 599.96

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

Plane ISO-Illuminance Curve

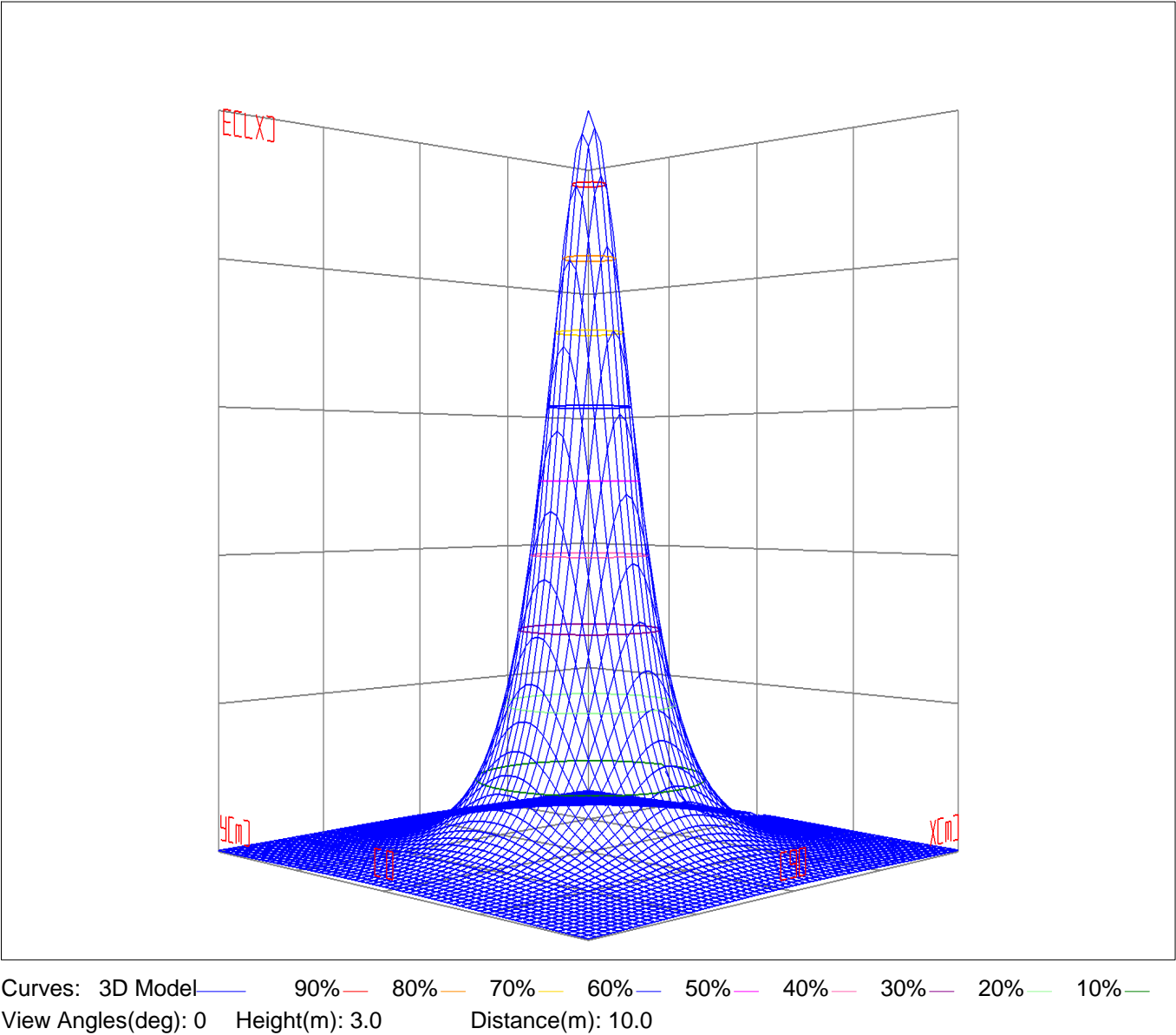


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 66.66
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (3000K 16W)	Lum. Catelog:	Test ID: 20230427
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

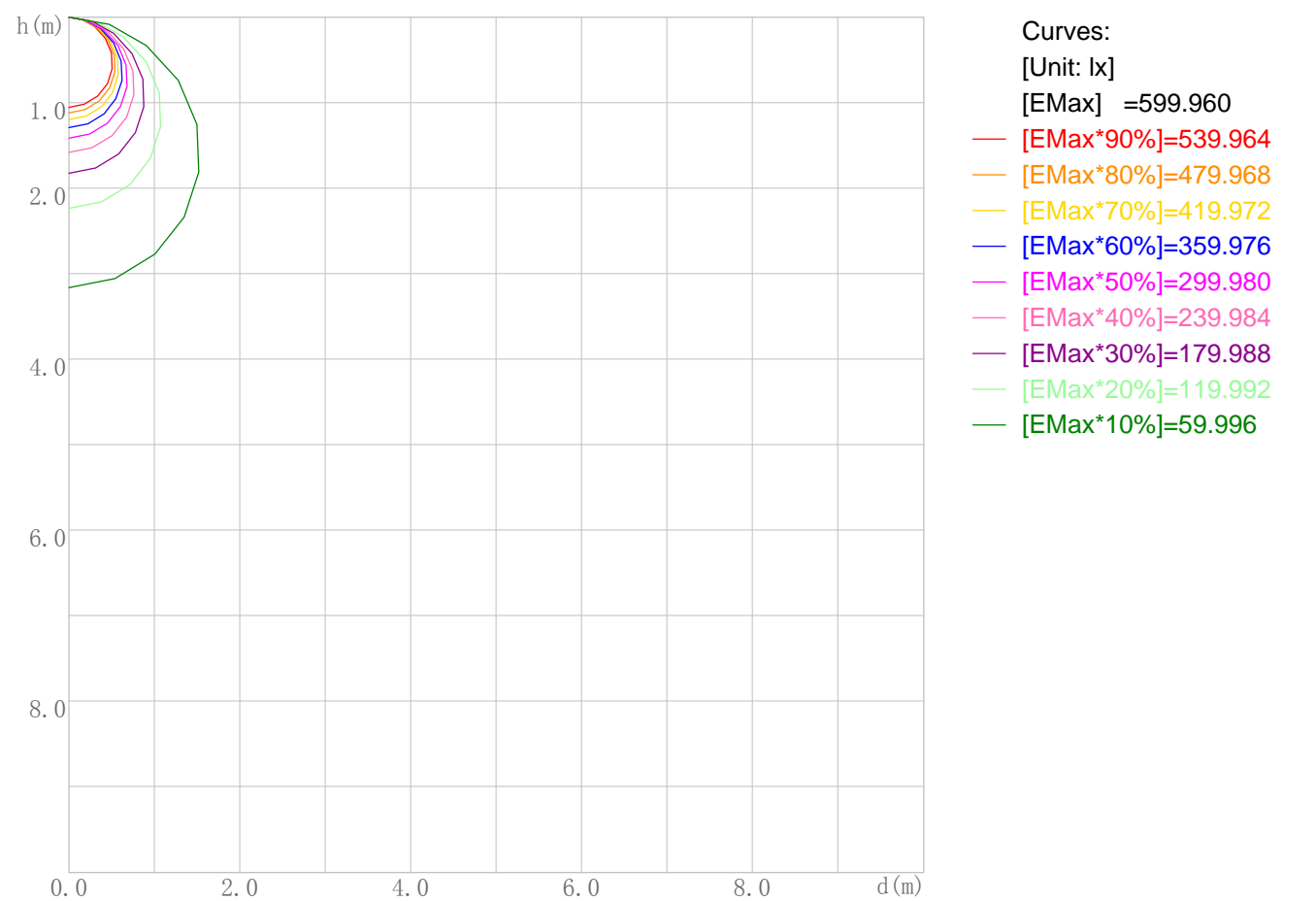
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

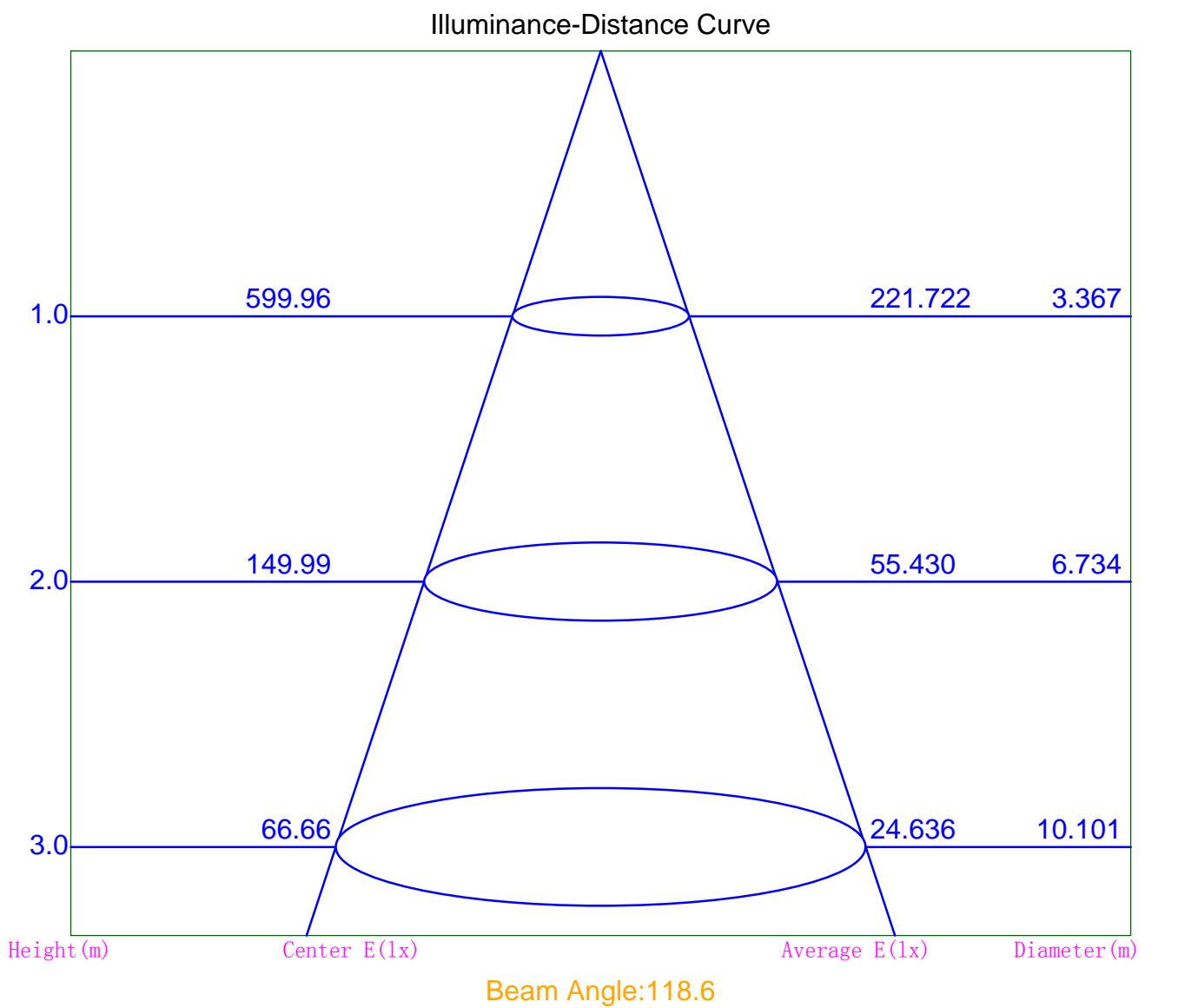
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:599.96lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:599.96cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Indoor Luminance Limiting Curves

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

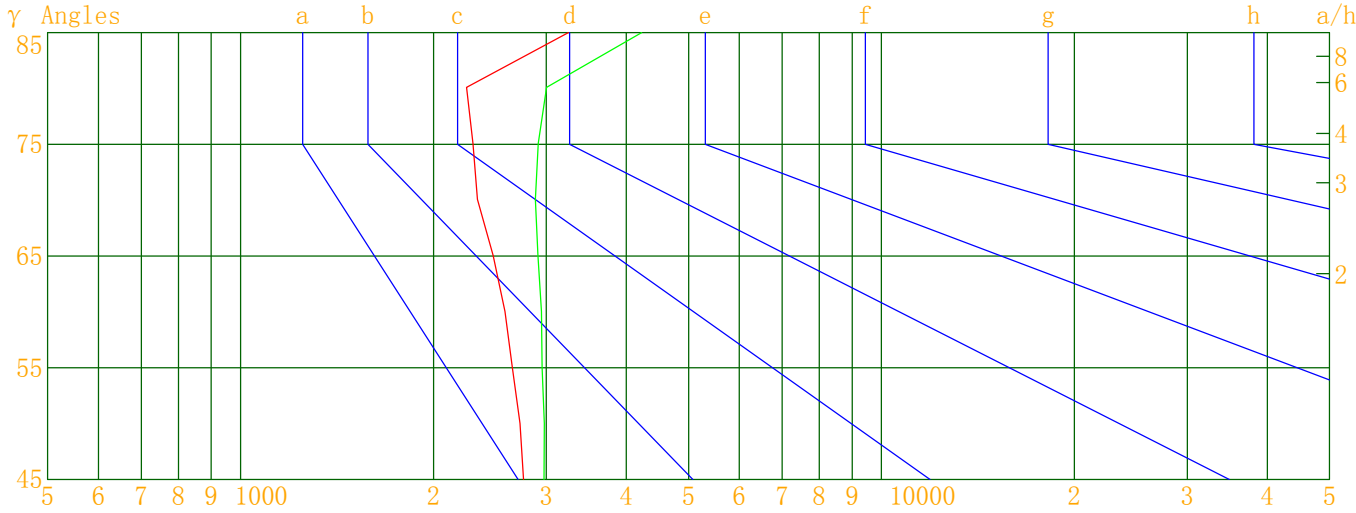
Glare Grade Table

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	2764	2729	2656	2585	2477	2343	2304	2252	3248
C90	2973	2979	2955	2949	2911	2884	2913	3004	4225

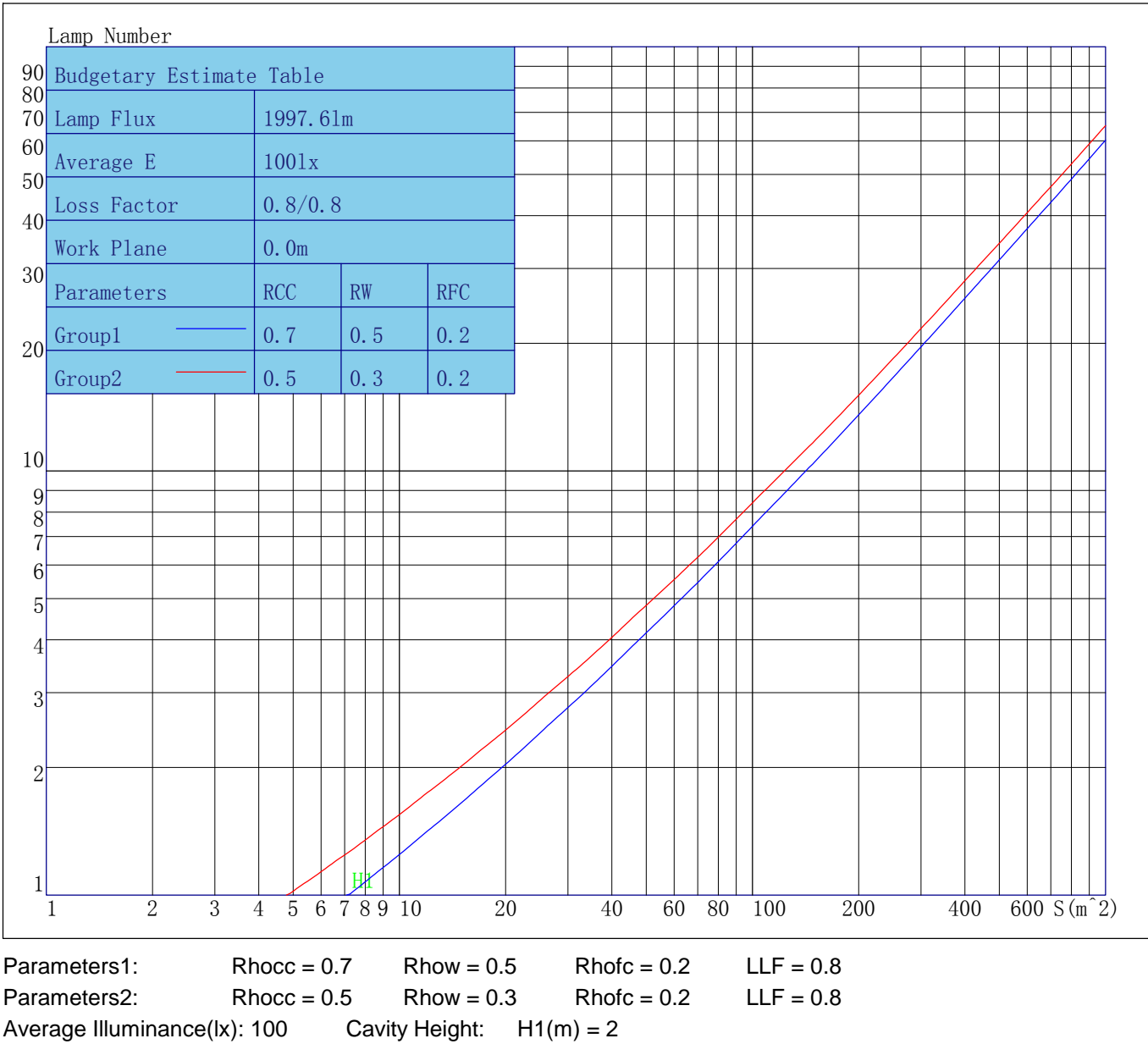
Luminance Limiting Curve



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 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
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Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Indoor Coefficient of Utilization Table

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

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	112	112	112	112	109	109	109	109	103	103	103	97	97	97	92	92	92	90
1	101	96	92	88	98	93	89	86	88	85	82	84	81	79	80	77	75	73
2	92	83	76	70	88	81	75	69	77	71	67	73	68	64	69	65	62	60
3	83	73	65	58	80	71	63	57	67	61	56	64	58	54	61	56	52	50
4	76	64	55	49	73	63	54	48	59	52	47	57	51	46	54	49	45	42
5	70	57	48	42	67	56	48	41	53	46	40	51	44	39	48	43	39	36
6	64	51	43	36	62	50	42	36	48	41	35	46	39	34	44	38	34	32
7	60	46	38	32	58	45	37	32	43	36	31	42	35	30	40	34	30	28
8	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25
9	52	39	31	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22
10	48	36	28	23	47	35	28	23	34	27	22	32	26	22	31	26	22	20

Unified Glare Rating Table

Lum. Name: LED365 (3000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

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	16.0	19.6	17.0	20.5	21.4	16.6	20.2	17.6	21.2	22.1
	Y=3H	20.4	24.0	21.4	25.0	25.9	21.7	25.2	22.6	26.2	27.1
	Y=4H	23.2	26.4	24.2	27.3	28.3	24.8	28.0	25.8	28.9	29.9
	Y=6H	25.2	28.2	26.2	29.2	30.1	27.1	30.2	28.2	31.2	32.1
	Y=8H	26.0	29.1	27.1	30.0	31.0	28.3	31.3	29.3	32.2	33.2
	Y=12H	27.0	30.0	28.0	31.0	31.9	29.4	32.4	30.4	33.4	34.3
X=4H	Y=2H	17.8	20.9	18.8	21.9	22.8	18.1	21.3	19.1	22.2	23.2
	Y=3H	22.5	25.7	23.5	26.6	27.6	23.4	26.5	24.4	27.5	28.4
	Y=4H	23.9	25.9	25.2	27.1	28.2	25.1	27.1	26.4	28.3	29.4
	Y=6H	26.4	28.2	27.7	29.4	30.5	28.0	29.8	29.3	31.0	32.2
	Y=8H	27.7	29.3	28.9	30.6	31.7	29.5	31.2	30.8	32.4	33.6
	Y=12H	28.1	29.5	29.5	30.8	32.1	30.2	31.6	31.5	32.9	34.2
X=8H	Y=4H	24.6	26.3	25.9	27.5	28.7	25.7	27.3	26.9	28.6	29.7
	Y=6H	26.6	27.8	28.0	29.2	30.4	28.0	29.2	29.4	30.6	31.8
	Y=8H	27.7	28.7	29.2	30.1	31.4	29.3	30.3	30.8	31.7	33.0
	Y=12H	29.5	30.4	31.0	31.8	33.1	31.3	32.2	32.8	33.6	35.0
X=12H	Y=4H	23.8	25.2	25.2	26.6	27.8	24.8	26.2	26.2	27.6	28.8
	Y=6H	26.3	27.3	27.8	28.7	30.1	27.7	28.7	29.1	30.1	31.4
	Y=8H	28.0	28.9	29.5	30.3	31.6	29.5	30.4	31.0	31.8	33.2
Variations with the objerver position at spacings											
S=1.0H		2.4/-0.7					2.3/-1.4				
S=1.5H		-0.7/-18.2					-1.4/-19.4				
S=2.0H		-0.7/-18.2					-1.4/-19.4				

IES Indoor Report
Photometric Filename: LED365 (3000K 16W)

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	599.96	599.96	599.96	599.96	599.96	599.96	599.96	599.96	599.96	599.96	599.96	599.96
γ 10.0	585.95	587.92	590.35	592.85	594.47	594.68	597.27	595.05	592.44	589.97	588.17	587.36
γ 20.0	553.79	557.88	562.98	567.93	571.56	572.59	577.09	572.81	567.46	562.35	558.64	557.26
γ 30.0	503.66	509.80	517.24	524.80	530.28	532.18	538.77	532.36	524.28	516.49	510.95	509.16
γ 40.0	437.04	444.98	454.58	464.40	471.63	474.50	482.98	474.73	464.12	453.98	446.83	444.66
γ 50.0	355.72	365.10	376.61	388.39	397.40	400.94	411.27	401.23	388.56	376.22	367.76	365.05
γ 60.0	262.08	272.57	285.41	298.99	309.33	313.69	325.42	314.07	299.43	285.36	275.73	272.77
γ 70.0	162.52	172.78	185.57	200.01	210.89	215.83	228.61	216.76	201.03	186.40	176.44	173.59
γ 80.0	79.32	85.70	94.32	105.78	114.87	119.68	131.35	120.87	107.89	96.08	89.00	87.02
γ 90.0	35.49	36.62	38.25	43.57	48.43	52.84	59.99	53.90	47.00	41.54	38.29	38.11
γ 100.0	24.48	22.68	19.48	19.78	21.19	26.10	29.54	26.85	24.19	23.25	22.18	24.00
γ 110.0	16.61	19.77	16.68	16.48	17.43	21.58	18.60	22.19	18.56	17.99	17.66	20.72
γ 120.0	14.07	16.76	14.22	13.43	15.24	18.60	16.30	19.34	15.75	14.00	14.61	17.55
γ 130.0	13.31	13.59	11.37	11.26	12.91	15.00	16.01	16.03	12.96	11.43	11.88	14.12
γ 140.0	9.95	10.32	8.77	8.90	10.08	11.66	12.48	12.28	10.16	8.81	9.02	10.57
γ 150.0	6.88	7.30	6.45	6.11	7.60	8.58	9.06	8.79	7.47	5.81	6.67	7.43
γ 160.0	4.83	5.01	4.81	4.71	5.50	5.85	6.18	5.91	5.38	4.77	4.99	5.05
γ 170.0	4.58	4.53	4.49	4.49	4.46	4.48	4.66	4.59	4.56	4.60	4.59	4.62
γ 180.0	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60