

Indoor Luminaire Photometric Data

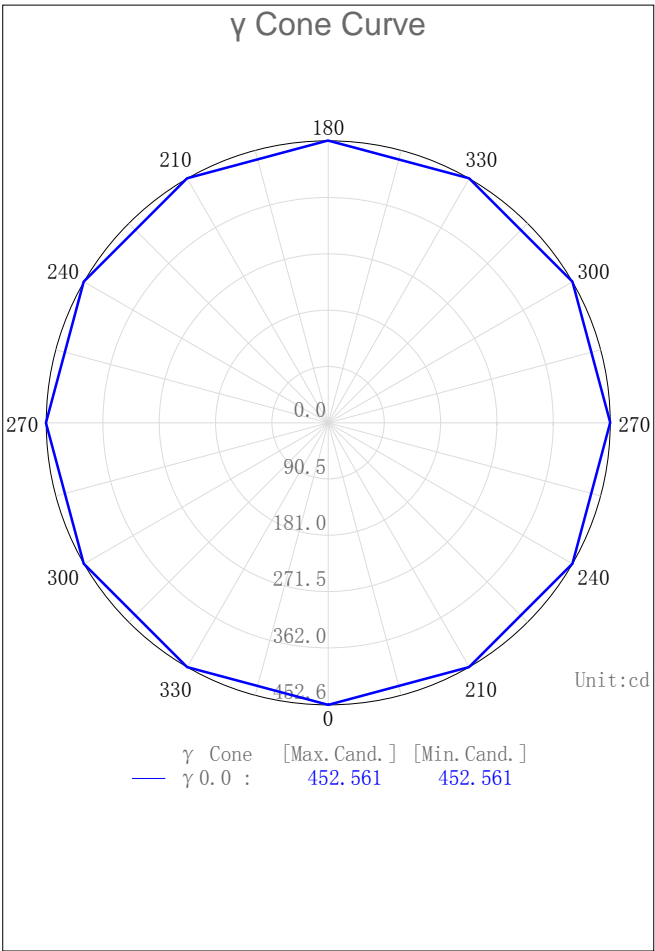
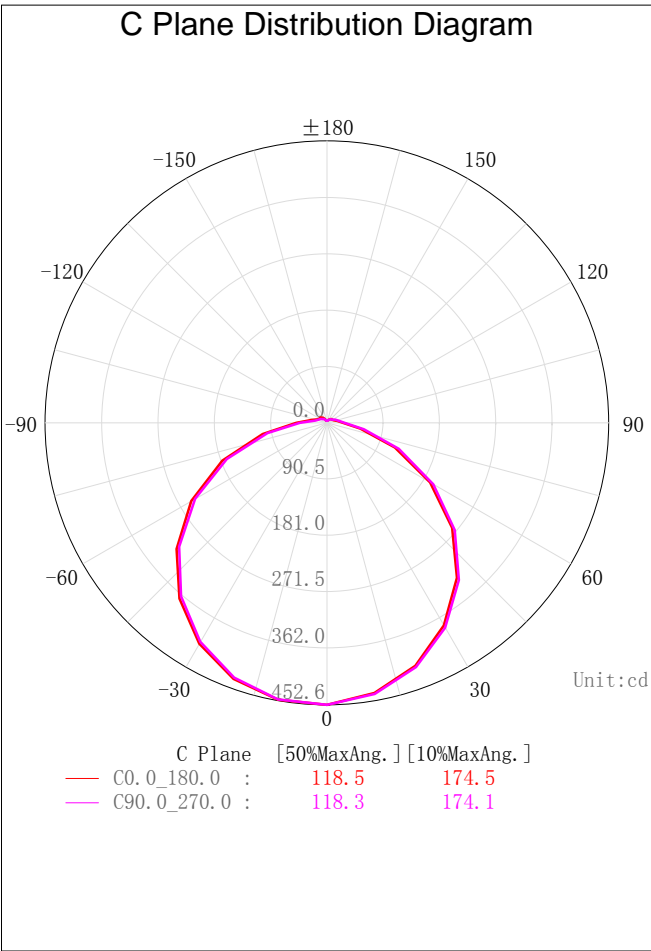
Description Information

Luminary Name: LED365 (4000K 12W)		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

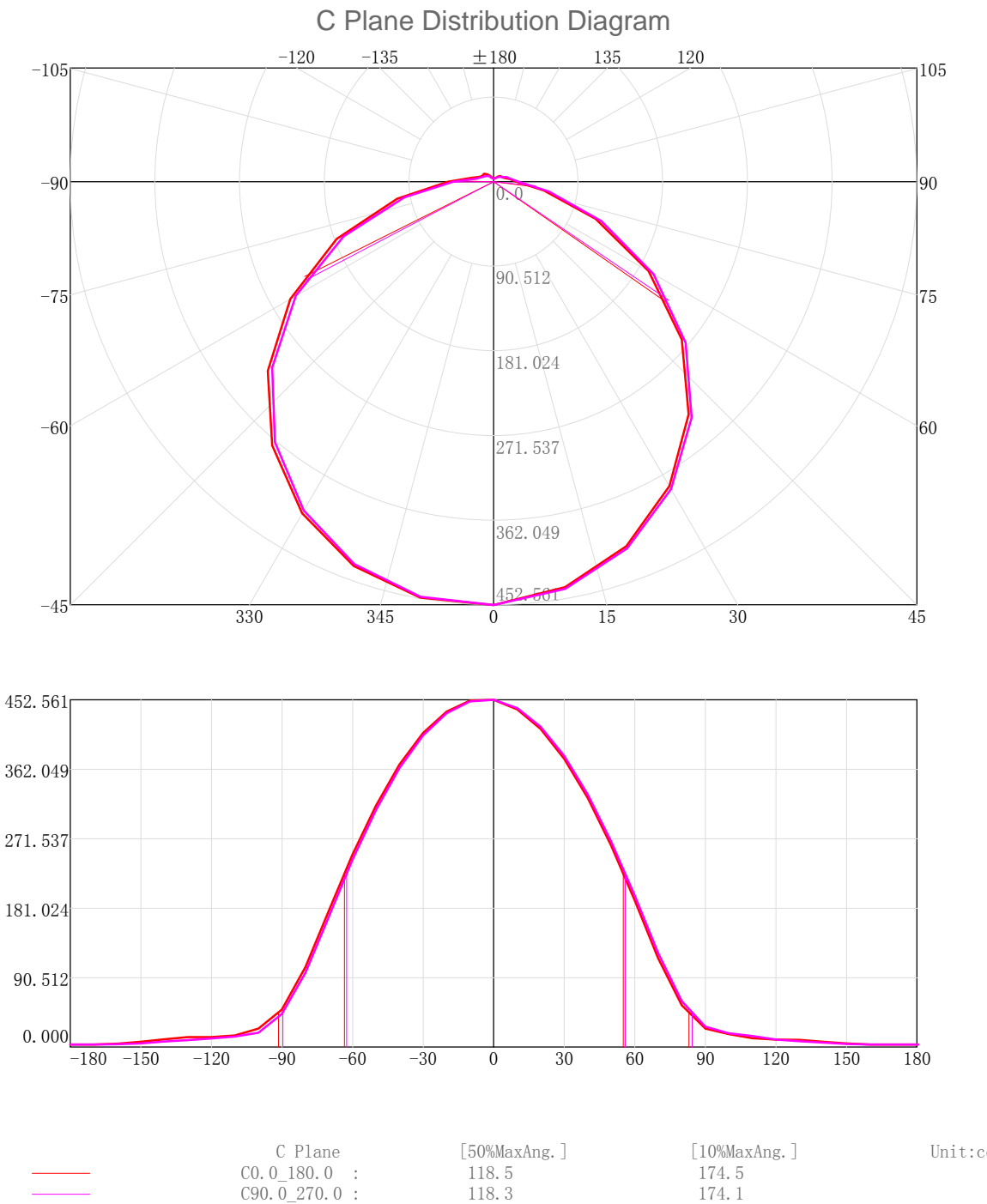
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1600.000	Luminary Flux(lm): 1514.136	Field Angle(10%Imax): 174.5(°)	
Rated Power(W):	Luminary Efficiency: 94.63%	Down Lumens&Percent: 1427.303lm 94.27%	
Rated Voltage(V):	Luminary EER(lm/W): 120.552	Up Lumens&Percent: 86.833lm 5.73%	
Tested Power(W): 12.560	Max. Candela(cd): 452.561	S/MH: C0_a180=1.293 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, 0.066, 0.828	Beam Angle(50%Imax): 118.5(°)	ErP Φuse(120°): 1066.394lm	
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-63.4°, Right=55.1°	IRF (%): 108.617	

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

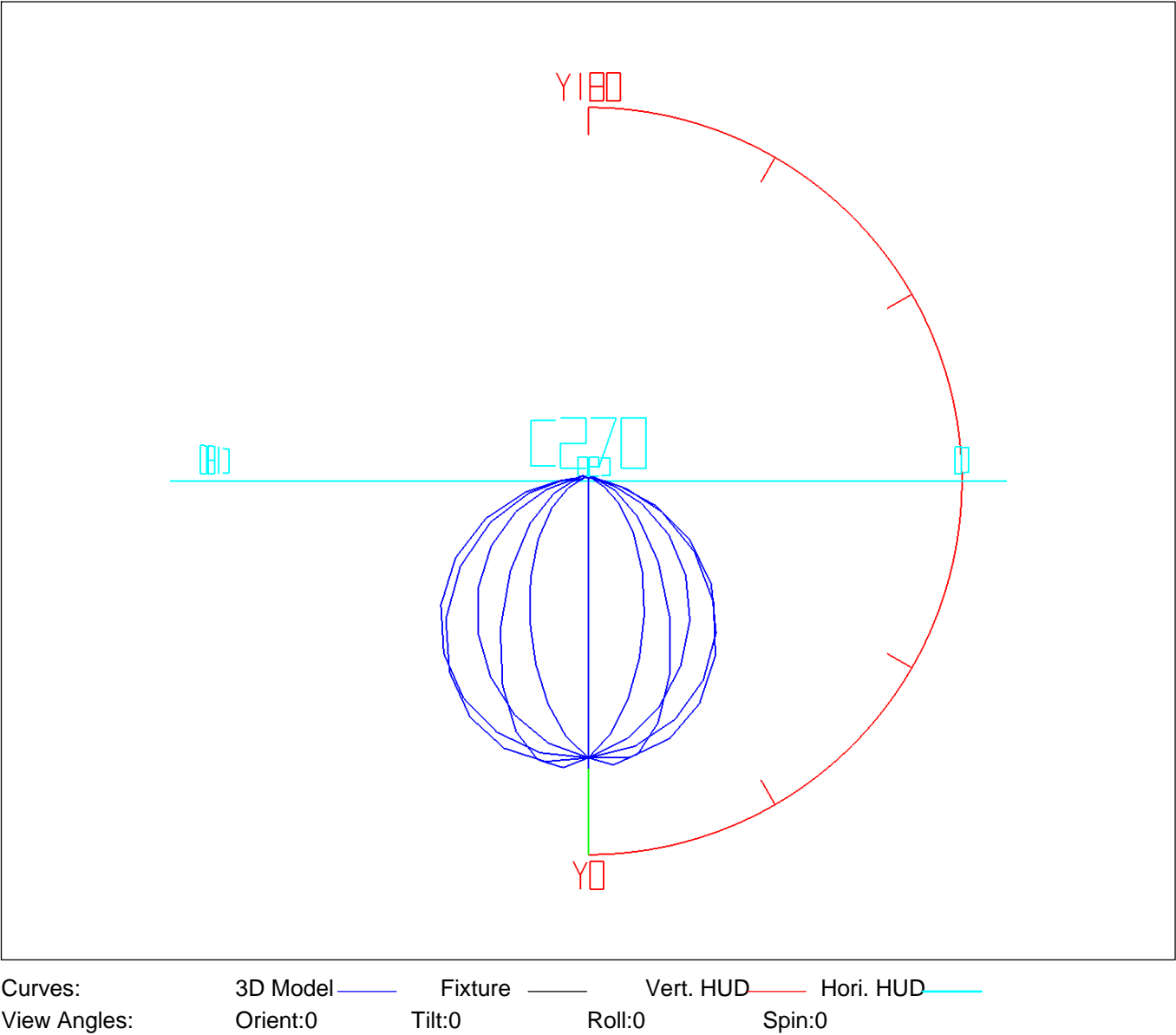
Lum. Name: LED365 (4000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



3D Light Intensity Distribution Modal

Lum. Name: LED365 (4000K 12W)	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

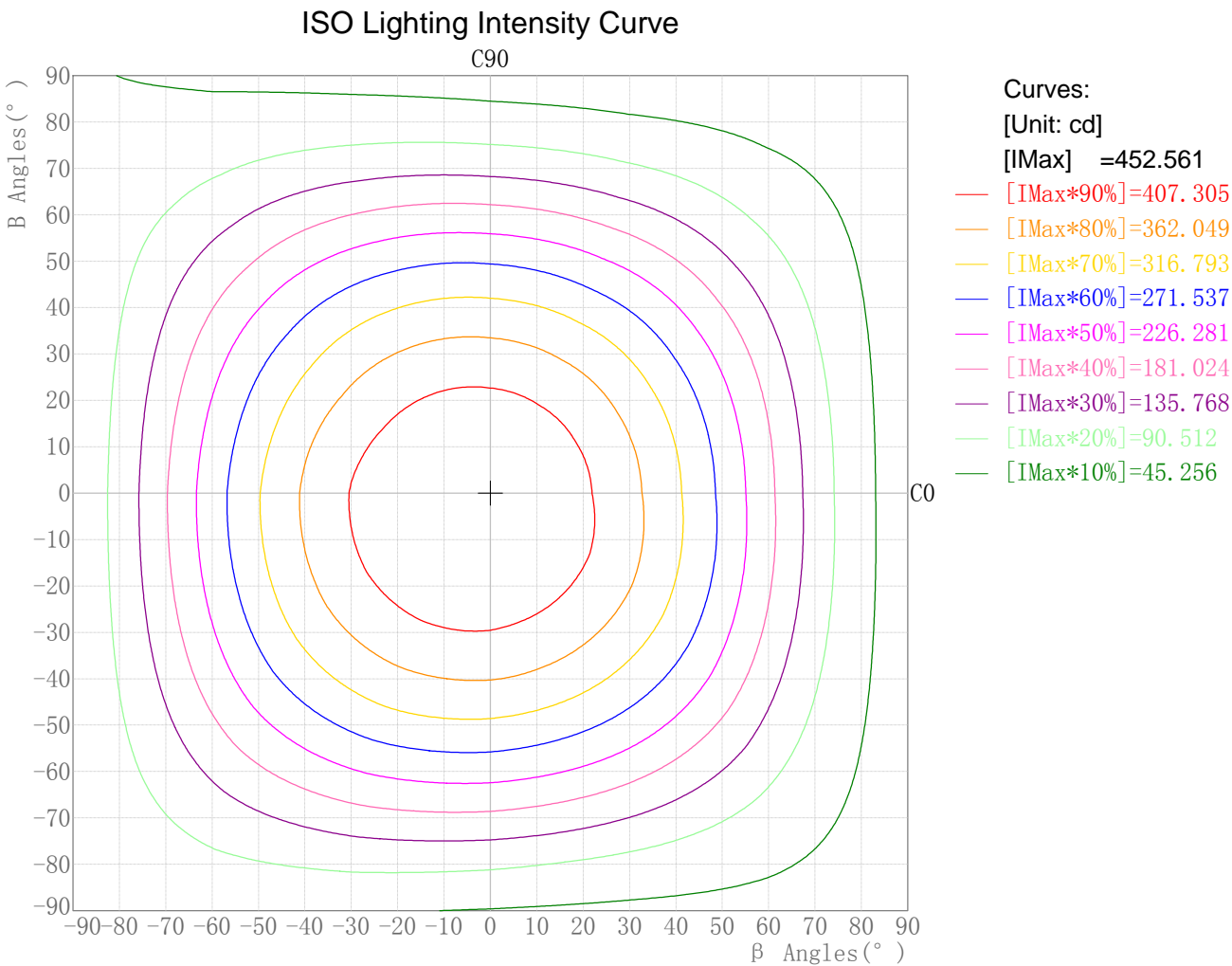


Zonal Flux Tabulation

Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	42. 89	42. 89	2. 68	2. 68
10. 0-20. 0	123. 65	166. 54	7. 73	10. 41
20. 0-30. 0	189. 56	356. 10	11. 85	22. 26
30. 0-40. 0	232. 21	588. 32	14. 51	36. 77
40. 0-50. 0	245. 96	834. 28	15. 37	52. 14
50. 0-60. 0	228. 61	1062. 89	14. 29	66. 43
60. 0-70. 0	182. 57	1245. 46	11. 41	77. 84
70. 0-80. 0	119. 44	1364. 91	7. 47	85. 31
80. 0-90. 0	62. 40	1427. 30	3. 90	89. 21
90. 0-100. 0	29. 91	1457. 21	1. 87	91. 08
100. 0-110. 0	18. 13	1475. 34	1. 13	92. 21
110. 0-120. 0	13. 54	1488. 88	0. 85	93. 05
120. 0-130. 0	10. 18	1499. 06	0. 64	93. 69
130. 0-140. 0	7. 10	1506. 16	0. 44	94. 13
140. 0-150. 0	4. 30	1510. 46	0. 27	94. 40
150. 0-160. 0	2. 27	1512. 73	0. 14	94. 55
160. 0-170. 0	1. 08	1513. 80	0. 07	94. 61
170. 0-180. 0	0. 33	1514. 14	0. 02	94. 63

Rectangle ISO Lighting Intensity Diagram

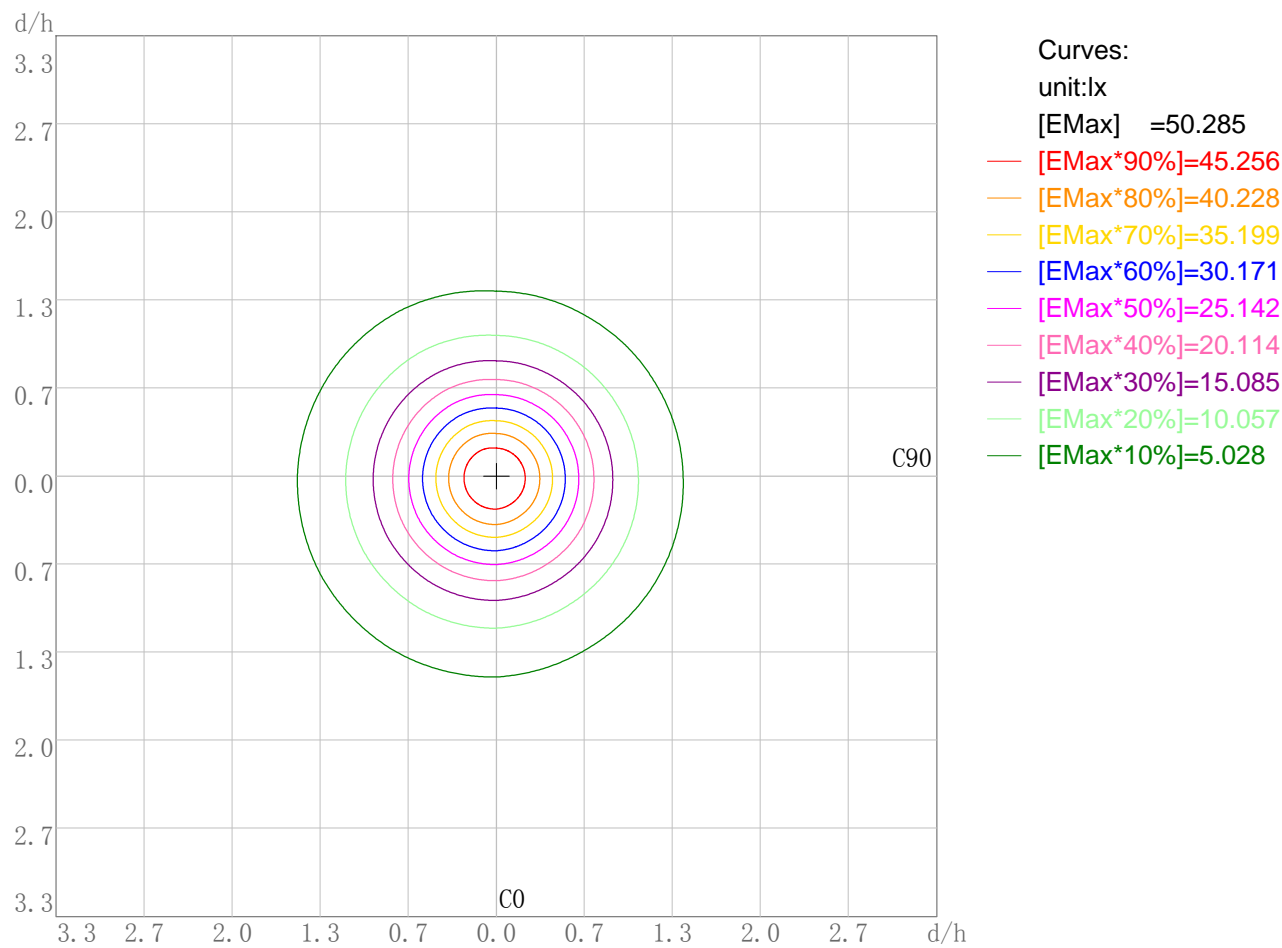
Lum. Name: LED365 (4000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Plane ISO-Illuminance Diagram

Lum. Name: LED365 (4000K 12W)	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

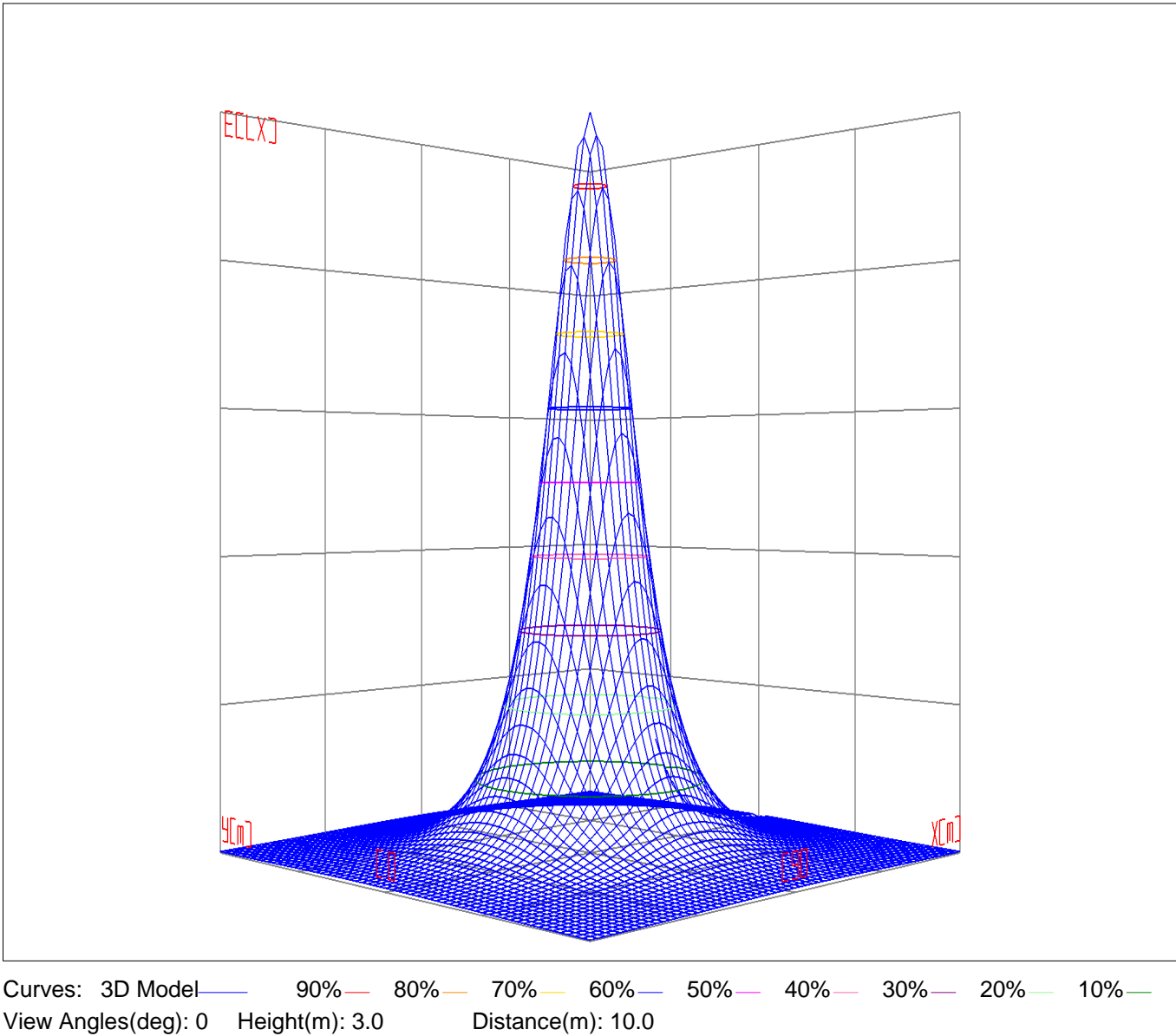


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 50.28  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (4000K 12W)	Lum. Catelog:	Test ID: 20230427
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

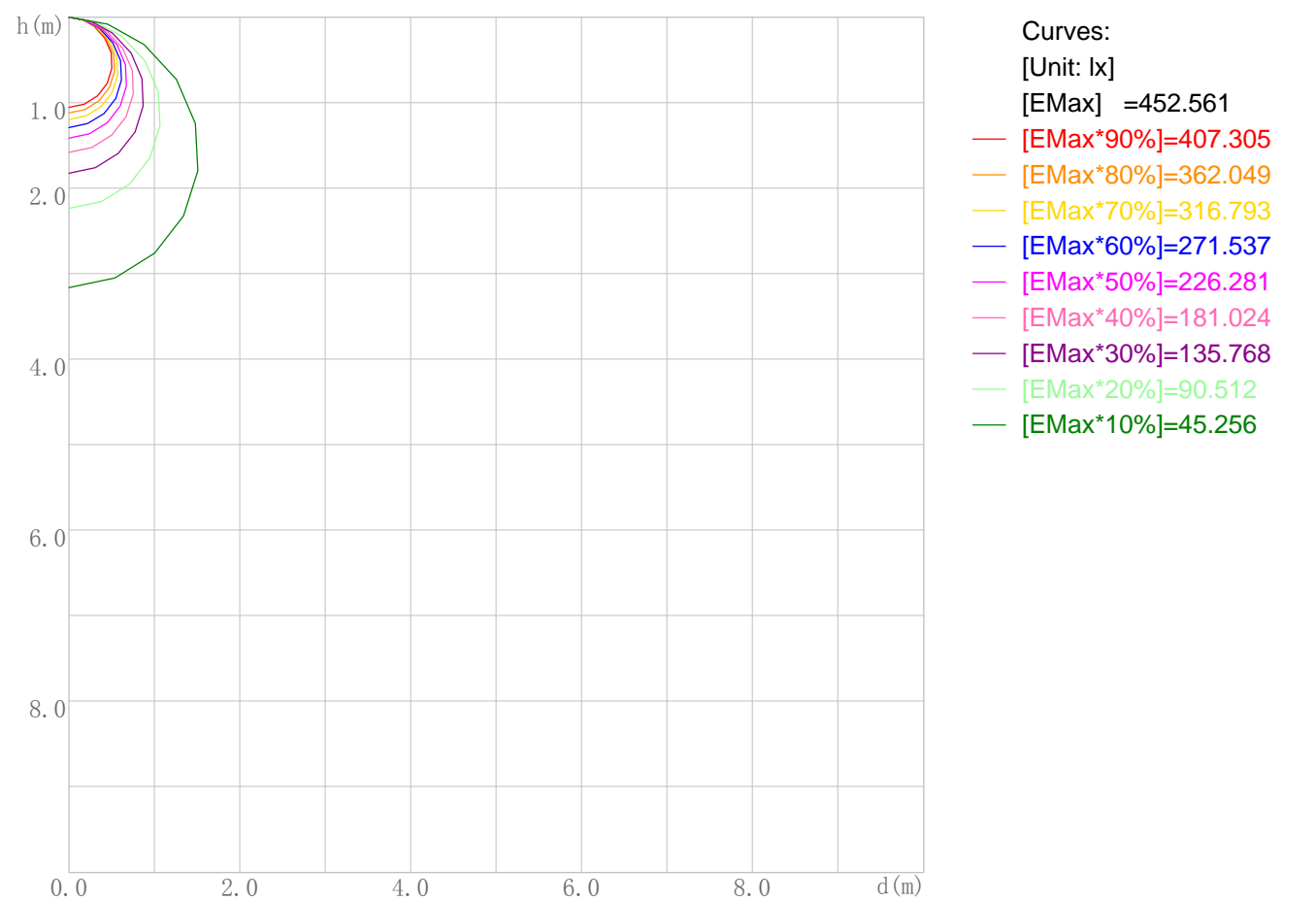
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (4000K 12W)	Lum. Catelog:	Test ID: 20230427
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

Space ISO Illuminance Curve

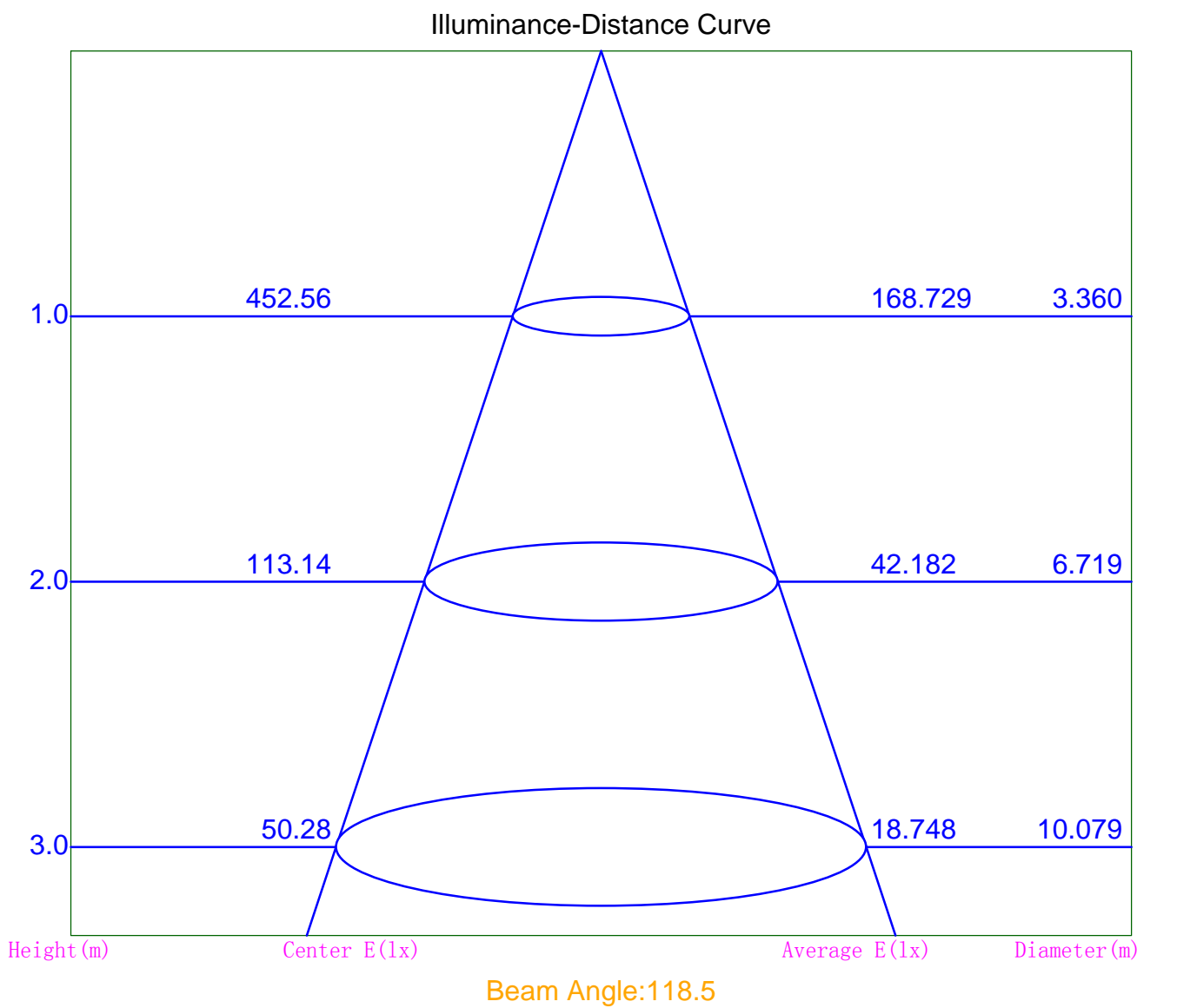


Space Plane Maximum Illuminance and @Angle:452.56lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:452.561cd,0deg



Illuminance-Distance Diagram

Lum. Name: LED365 (4000K 12W)	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 (4000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

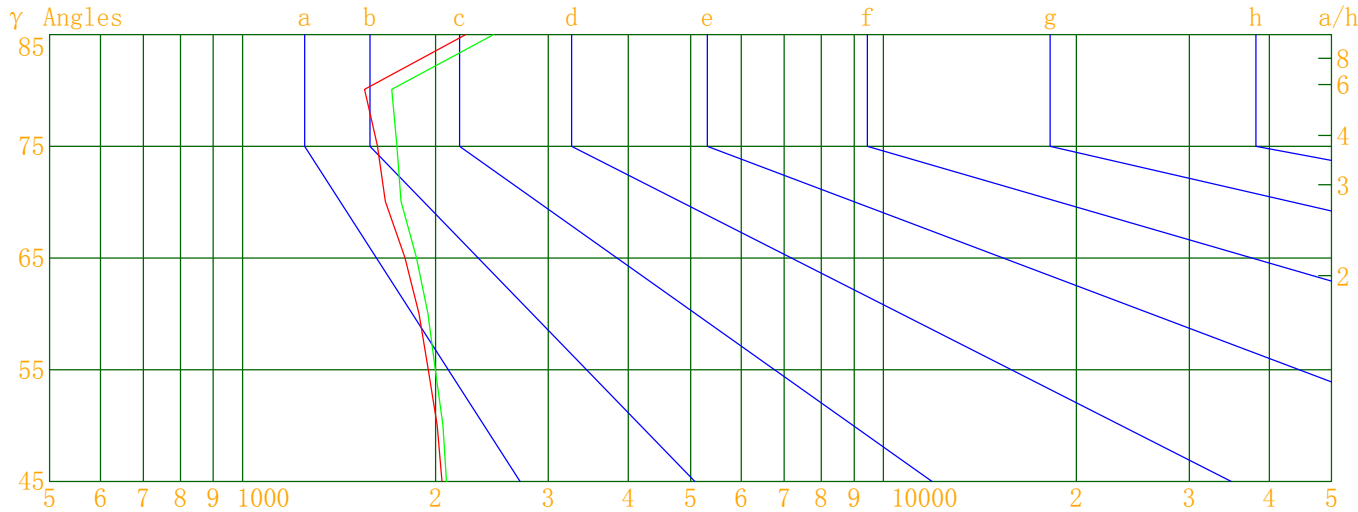
Glare Grade Table

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	2047	2013	1950	1885	1791	1670	1623	1550	2229
C90	2082	2054	1999	1946	1867	1768	1742	1710	2463

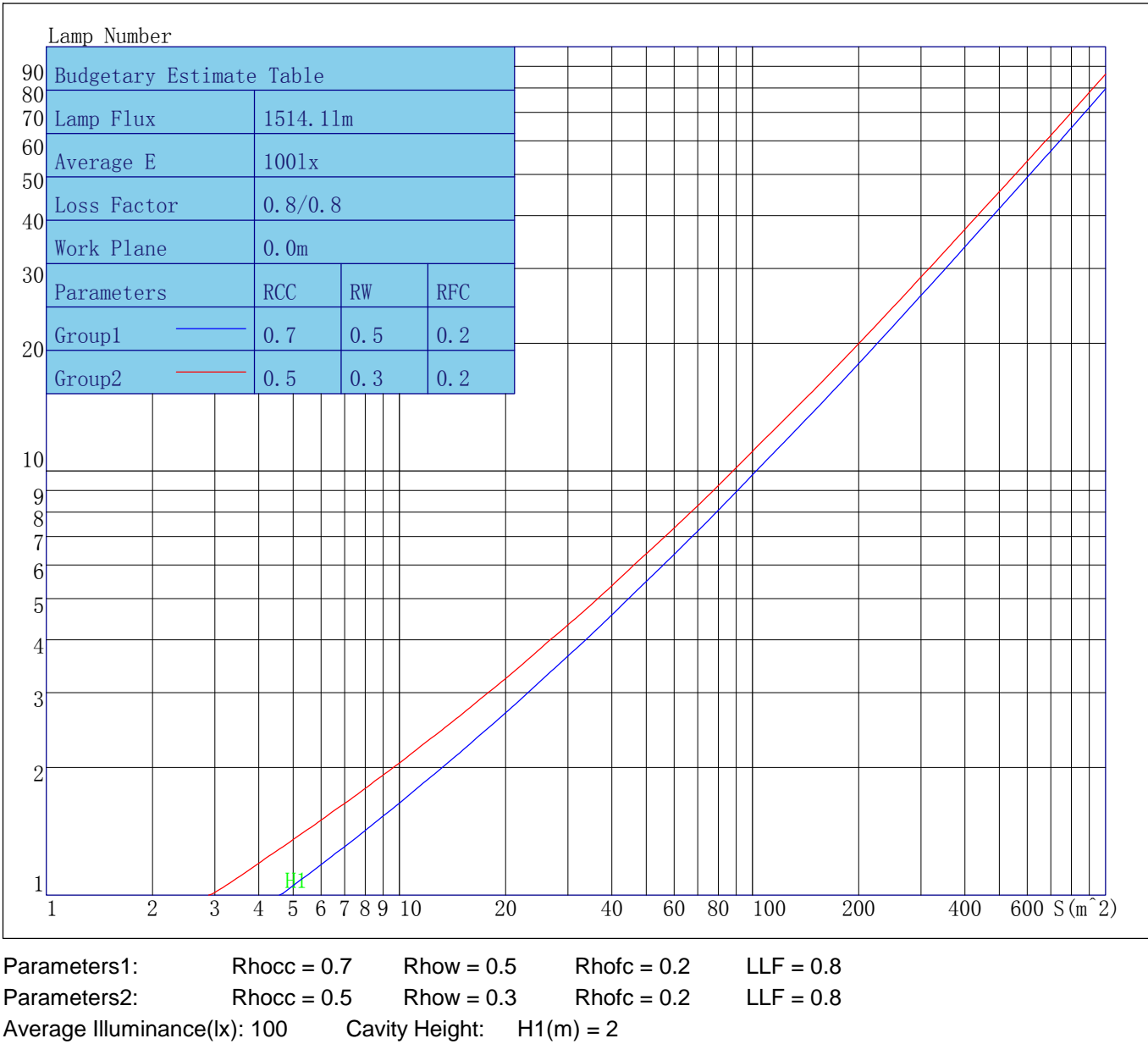
Luminance Limiting Curve



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 (4000K 12W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



Indoor Coefficient of Utilization Table

Lum. Name: LED365 (4000K 12W)	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	111	111	111	111	108	108	108	108	102	102	102	97	97	97	92	92	92	89
1	101	96	91	87	97	93	89	85	88	84	81	83	80	78	79	77	75	72
2	91	83	76	70	88	80	74	69	76	71	66	72	68	64	68	65	62	59
3	83	72	64	58	80	70	63	57	67	60	55	63	58	53	60	56	52	49
4	75	64	55	49	73	62	54	48	59	52	47	56	50	45	53	48	44	42
5	69	57	48	42	67	55	47	41	53	46	40	50	44	39	48	43	38	36
6	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	38	33	31
7	59	46	38	32	57	45	37	31	43	36	31	41	35	30	40	34	30	28
8	55	42	34	28	53	41	33	28	39	32	27	38	32	27	36	31	26	25
9	51	38	31	25	50	38	30	25	36	29	25	35	29	24	33	28	24	22
10	48	35	28	23	47	35	28	23	33	27	22	32	26	22	31	26	22	20

Unified Glare Rating Table

Lum. Name: LED365 (4000K 12W)	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	14.6	18.2	15.6	19.1	20.1	14.8	18.3	15.8	19.3	20.2
	Y=3H	18.9	22.5	19.9	23.4	24.3	19.2	22.8	20.2	23.7	24.7
	Y=4H	21.6	24.7	22.6	25.7	26.6	22.0	25.2	23.0	26.1	27.1
	Y=6H	23.4	26.4	24.4	27.4	28.4	24.0	27.0	25.0	28.0	29.0
	Y=8H	24.3	27.3	25.3	28.2	29.2	24.9	27.9	25.9	28.9	29.9
	Y=12H	25.2	28.2	26.2	29.2	30.1	25.9	28.9	27.0	29.9	30.9
X=4H	Y=2H	16.1	19.3	17.1	20.2	21.2	16.2	19.3	17.2	20.3	21.2
	Y=3H	20.6	23.8	21.6	24.7	25.7	20.8	24.0	21.9	25.0	25.9
	Y=4H	21.9	23.8	23.1	25.1	26.2	22.2	24.2	23.5	25.4	26.6
	Y=6H	24.2	26.0	25.5	27.2	28.4	24.7	26.5	26.0	27.7	28.9
	Y=8H	25.4	27.1	26.7	28.3	29.5	26.0	27.7	27.3	28.9	30.1
	Y=12H	25.8	27.3	27.2	28.6	29.9	26.5	27.9	27.9	29.3	30.6
X=8H	Y=4H	22.4	24.1	23.7	25.3	26.5	22.7	24.4	24.0	25.6	26.8
	Y=6H	24.2	25.4	25.6	26.8	28.1	24.7	25.9	26.1	27.2	28.5
	Y=8H	25.2	26.2	26.7	27.6	29.0	25.7	26.7	27.2	28.2	29.5
	Y=12H	27.0	27.9	28.5	29.3	30.7	27.6	28.5	29.1	29.9	31.3
X=12H	Y=4H	21.6	23.0	23.0	24.4	25.6	21.9	23.3	23.3	24.7	25.9
	Y=6H	23.9	24.9	25.4	26.3	27.7	24.3	25.3	25.8	26.8	28.1
	Y=8H	25.5	26.4	27.0	27.8	29.2	26.0	26.9	27.5	28.3	29.6
Variations with the objerver position at spacings											
S=1.0H		2.5/-1.0					2.5/-1.1				
S=1.5H		-1.0/-19.4					-1.1/-19.7				
S=2.0H		-1.0/-19.4					-1.1/-19.7				

IES Indoor Report  
Photometric Filename: LED365 (4000K 12W)

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	452.56	452.56	452.56	452.56	452.56	452.56	452.56	452.56	452.56	452.56	452.56	452.56
γ 10.0	440.21	439.33	439.86	441.90	444.86	447.78	451.36	452.41	452.07	450.45	448.01	445.26
γ 20.0	414.74	412.68	413.55	417.37	423.21	429.16	437.30	439.38	438.59	435.15	430.06	424.37
γ 30.0	375.80	372.76	373.89	379.45	387.82	396.76	409.28	412.46	411.17	405.97	398.18	389.84
γ 40.0	324.57	320.60	322.00	329.19	339.84	351.35	368.15	372.24	370.45	363.59	353.42	342.66
γ 50.0	262.44	257.53	259.29	267.81	280.54	294.31	314.97	319.75	317.62	309.13	297.01	283.94
γ 60.0	191.14	185.63	187.62	197.34	211.64	227.25	250.93	256.51	253.77	244.04	230.03	215.37
γ 70.0	115.86	110.63	112.93	122.64	136.84	153.07	178.40	184.46	181.19	170.71	155.75	140.51
γ 80.0	54.57	51.46	53.42	60.21	70.56	82.93	104.61	109.72	106.60	96.89	84.00	71.79
γ 90.0	24.24	23.29	24.09	26.84	31.51	37.35	48.86	51.43	48.93	43.15	35.62	30.49
γ 100.0	17.15	16.64	17.07	18.31	19.75	21.43	24.50	23.95	21.09	18.89	16.21	17.11
γ 110.0	11.81	14.06	13.19	14.56	15.69	18.21	15.43	18.79	15.35	13.93	13.17	14.96
γ 120.0	10.02	11.73	9.96	9.90	12.15	15.38	13.39	16.33	13.37	11.42	11.54	12.94
γ 130.0	9.51	9.40	7.69	8.03	9.86	12.08	13.32	13.61	11.02	9.42	9.63	10.69
γ 140.0	7.13	7.10	5.98	6.25	7.75	9.03	10.30	10.56	8.59	7.49	7.34	8.19
γ 150.0	5.02	5.02	4.51	4.29	5.67	6.39	7.25	7.50	6.33	5.11	5.50	5.92
γ 160.0	3.64	3.62	3.57	3.53	4.05	4.21	4.75	4.99	4.56	3.98	4.17	4.13
γ 170.0	3.49	3.48	3.50	3.51	3.52	3.41	3.53	3.51	3.42	3.44	3.60	3.51
γ 180.0	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51	3.51