

Indoor Luminaire Photometric Data

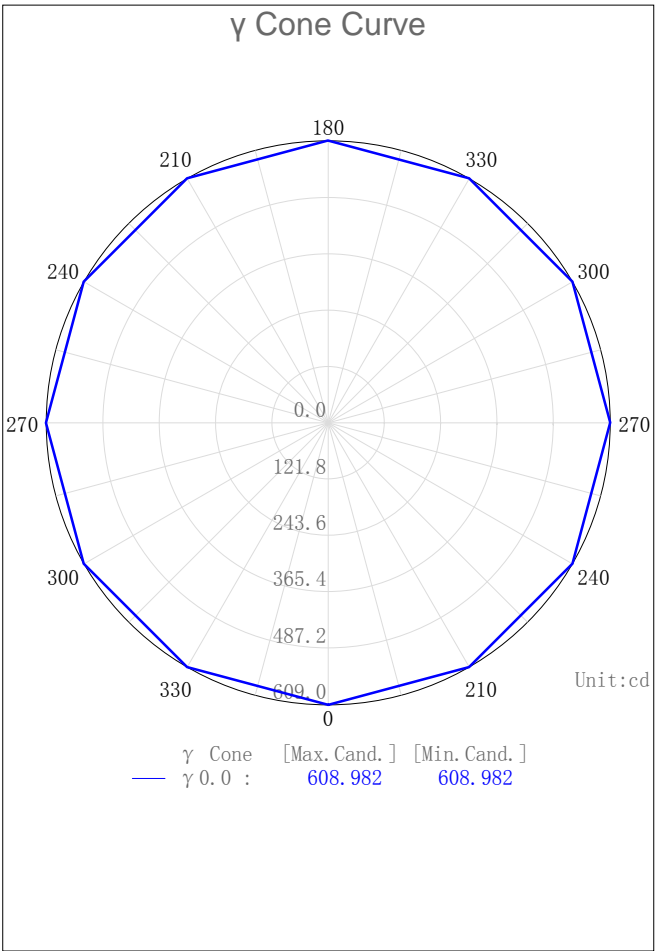
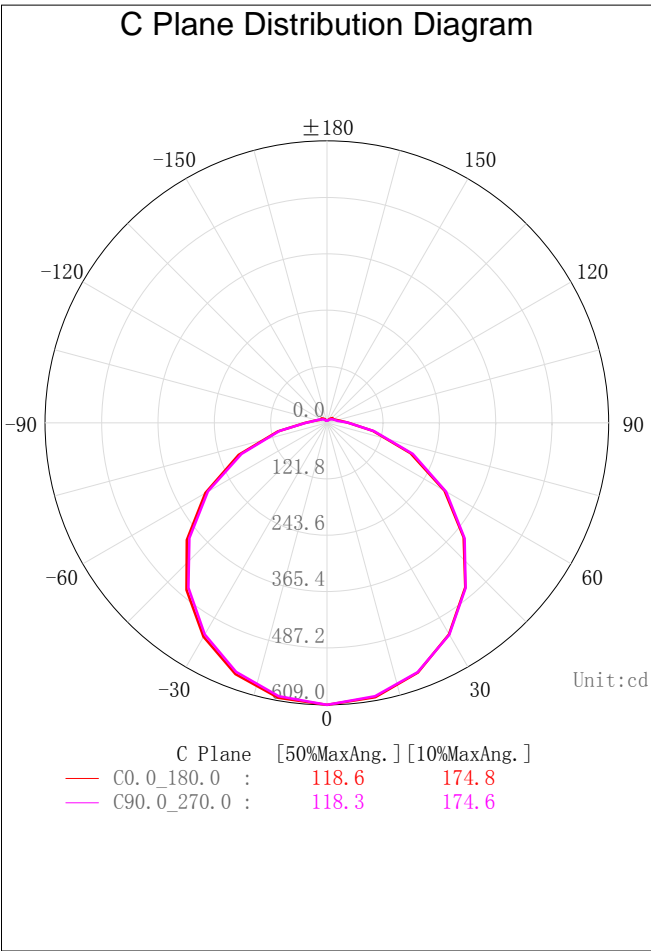
Description Information

Luminary Name: LED365 (4000K 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

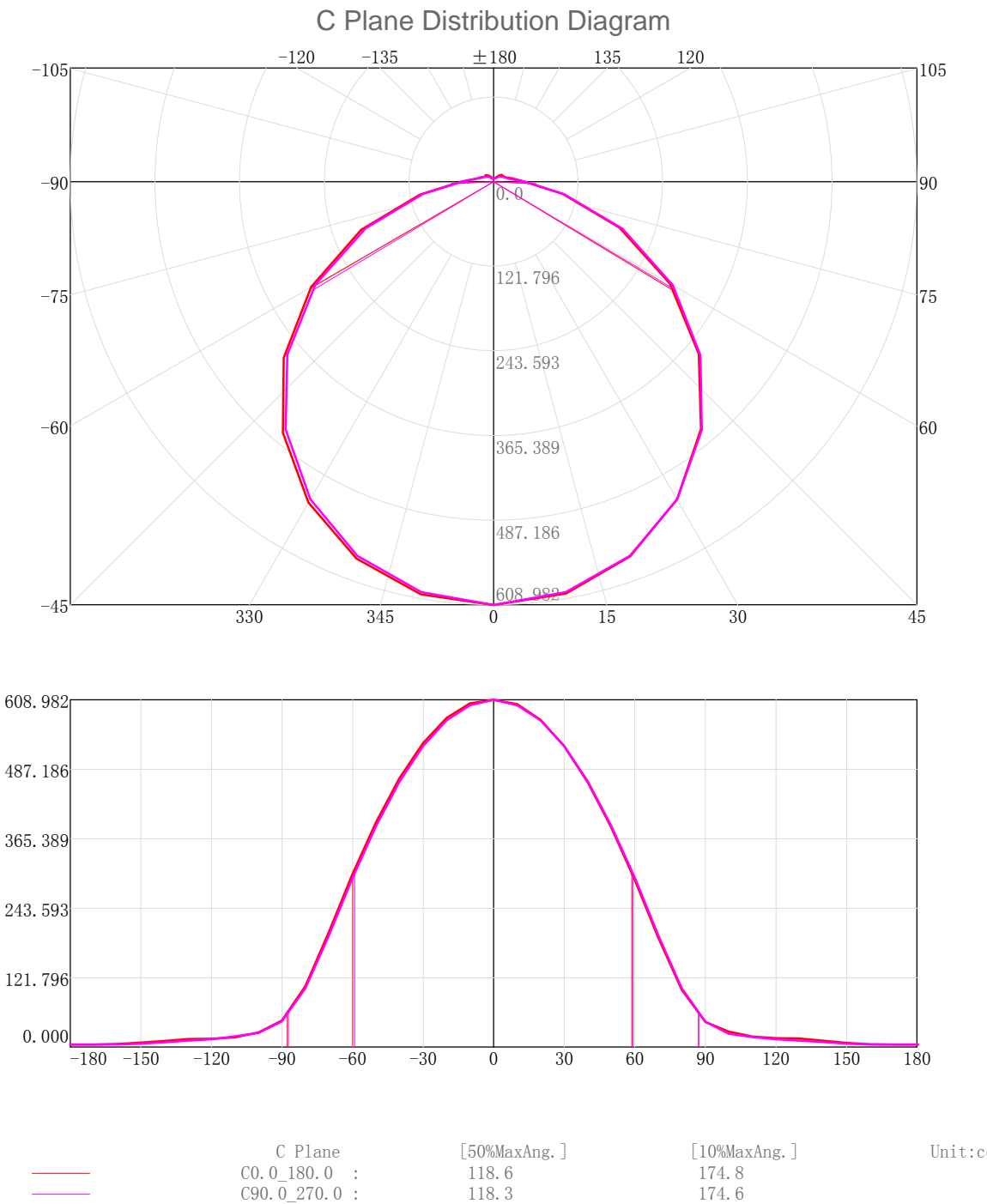
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2100.000	Luminary Flux(lm): 2027.538	Field Angle(10%Imax): 174.8(°)
Rated Power(W):	Luminary Efficiency: 96.55%	Down Lumens&Percent: 1915.061lm 94.45%
Rated Voltage(V):	Luminary EER(lm/W): 121.628	Up Lumens&Percent: 112.477lm 5.55%
Tested Power(W): 16.670	Max. Candela(cd): 608.982	S/MH: C0_a180=1.298 C90_270=1.293
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf):229.2, 0.082, 0.880	Beam Angle(50%Imax): 118.6(°)	ErP Φuse(120°): 1429.465lm
Lamp Size (W*L*H):0.400m*0.400m*0.107m	Left=-59.8°, Right=58.8°	IRF (%): 104.009

Lighting Distribution Diagram



2D Plane Light Intensity Distribution Curve

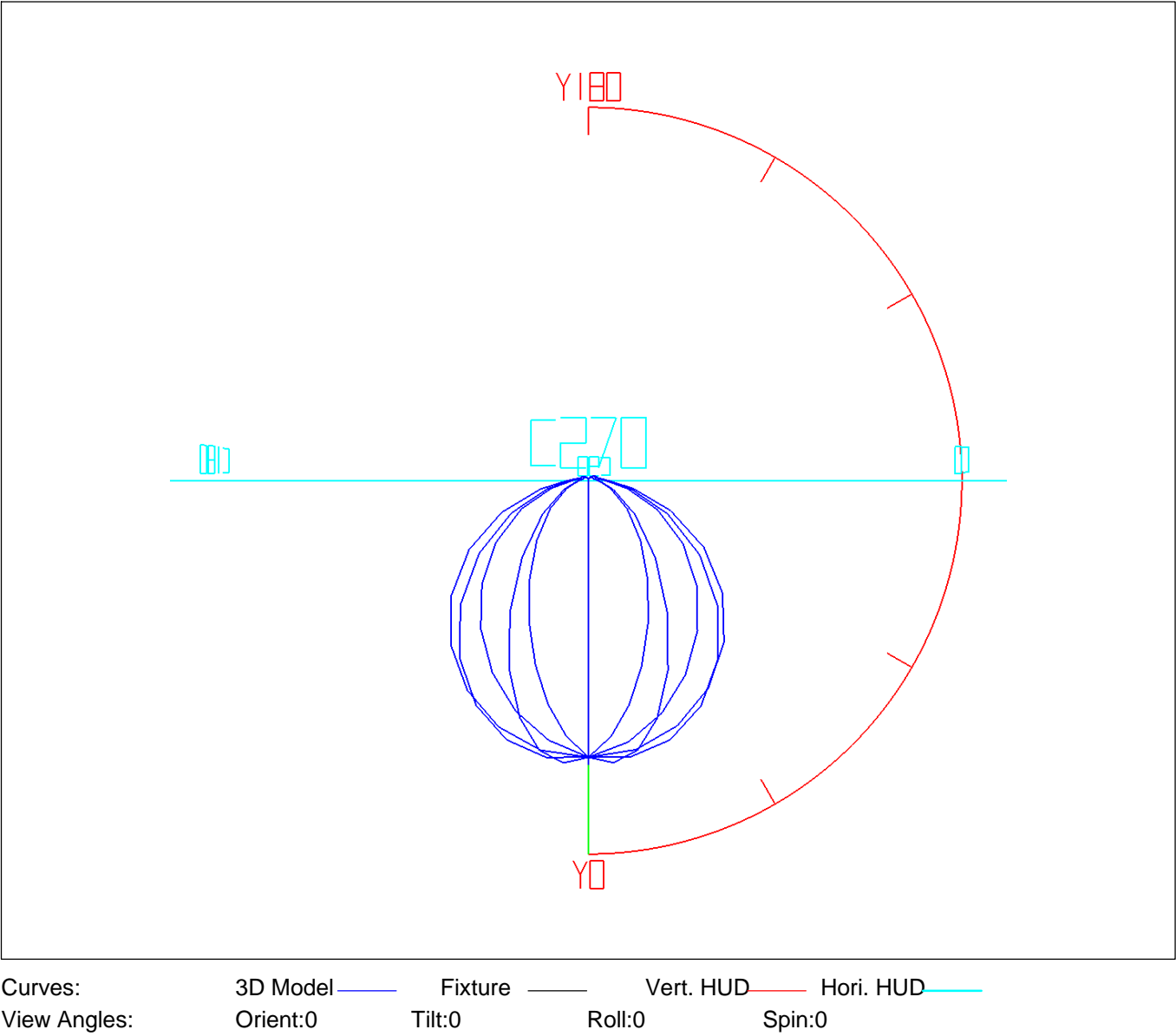
Lum. Name: LED365 (4000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



3D Light Intensity Distribution Modal

Lum. Name: LED365 (4000K 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

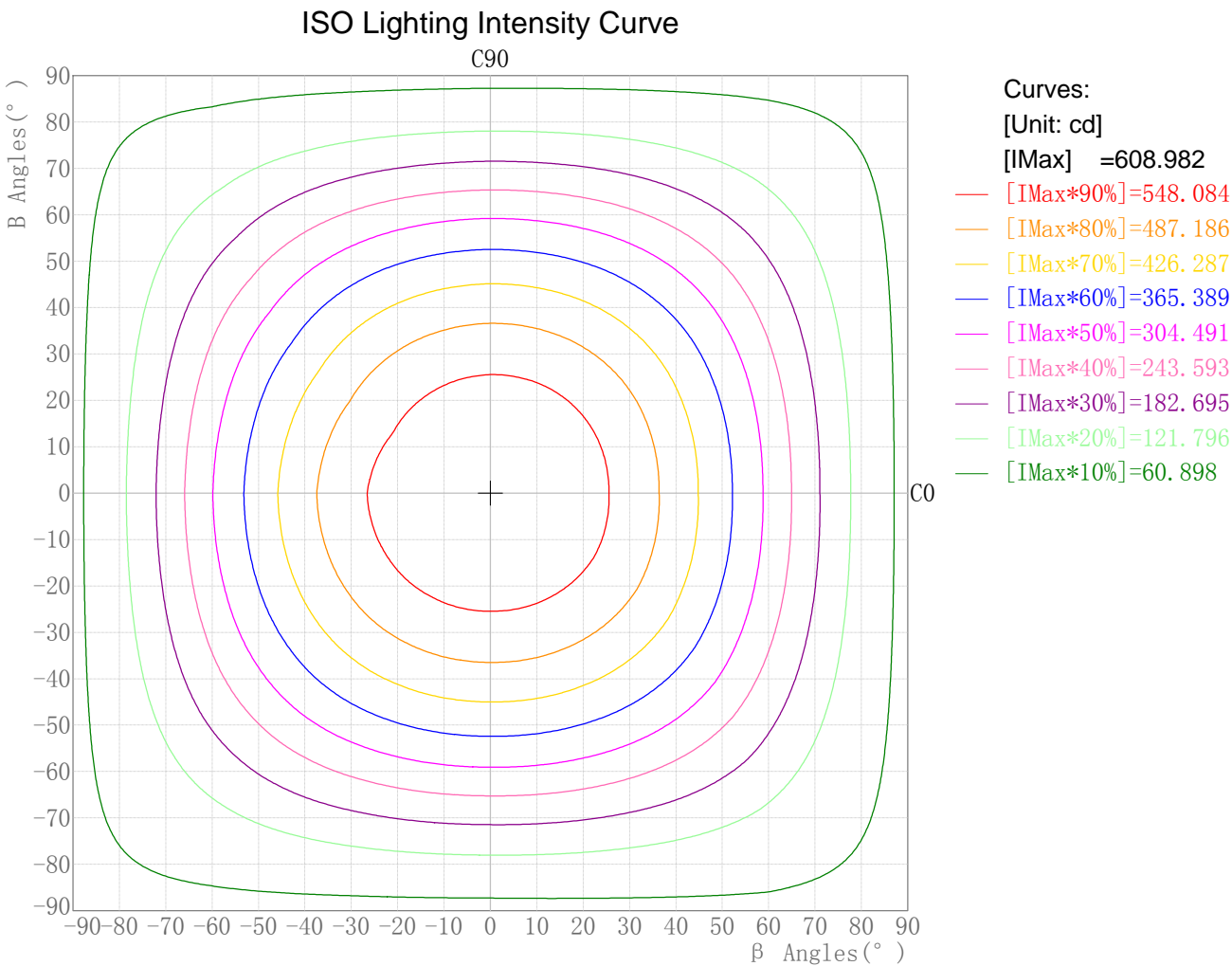


Zonal Flux Tabulation

Zone ( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-10. 0	57. 70	57. 70	2. 75	2. 75
10. 0-20. 0	166. 30	224. 00	7. 92	10. 67
20. 0-30. 0	254. 99	478. 99	12. 14	22. 81
30. 0-40. 0	312. 39	791. 38	14. 88	37. 68
40. 0-50. 0	330. 88	1122. 27	15. 76	53. 44
50. 0-60. 0	307. 46	1429. 73	14. 64	68. 08
60. 0-70. 0	245. 13	1674. 86	11. 67	79. 76
70. 0-80. 0	158. 97	1833. 83	7. 57	87. 33
80. 0-90. 0	81. 23	1915. 06	3. 87	91. 19
90. 0-100. 0	38. 32	1953. 38	1. 82	93. 02
100. 0-110. 0	23. 55	1976. 93	1. 12	94. 14
110. 0-120. 0	17. 68	1994. 61	0. 84	94. 98
120. 0-130. 0	13. 30	2007. 91	0. 63	95. 61
130. 0-140. 0	9. 25	2017. 16	0. 44	96. 06
140. 0-150. 0	5. 59	2022. 75	0. 27	96. 32
150. 0-160. 0	2. 94	2025. 69	0. 14	96. 46
160. 0-170. 0	1. 40	2027. 10	0. 07	96. 53
170. 0-180. 0	0. 44	2027. 54	0. 02	96. 55

Rectangle ISO Lighting Intensity Diagram

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Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27



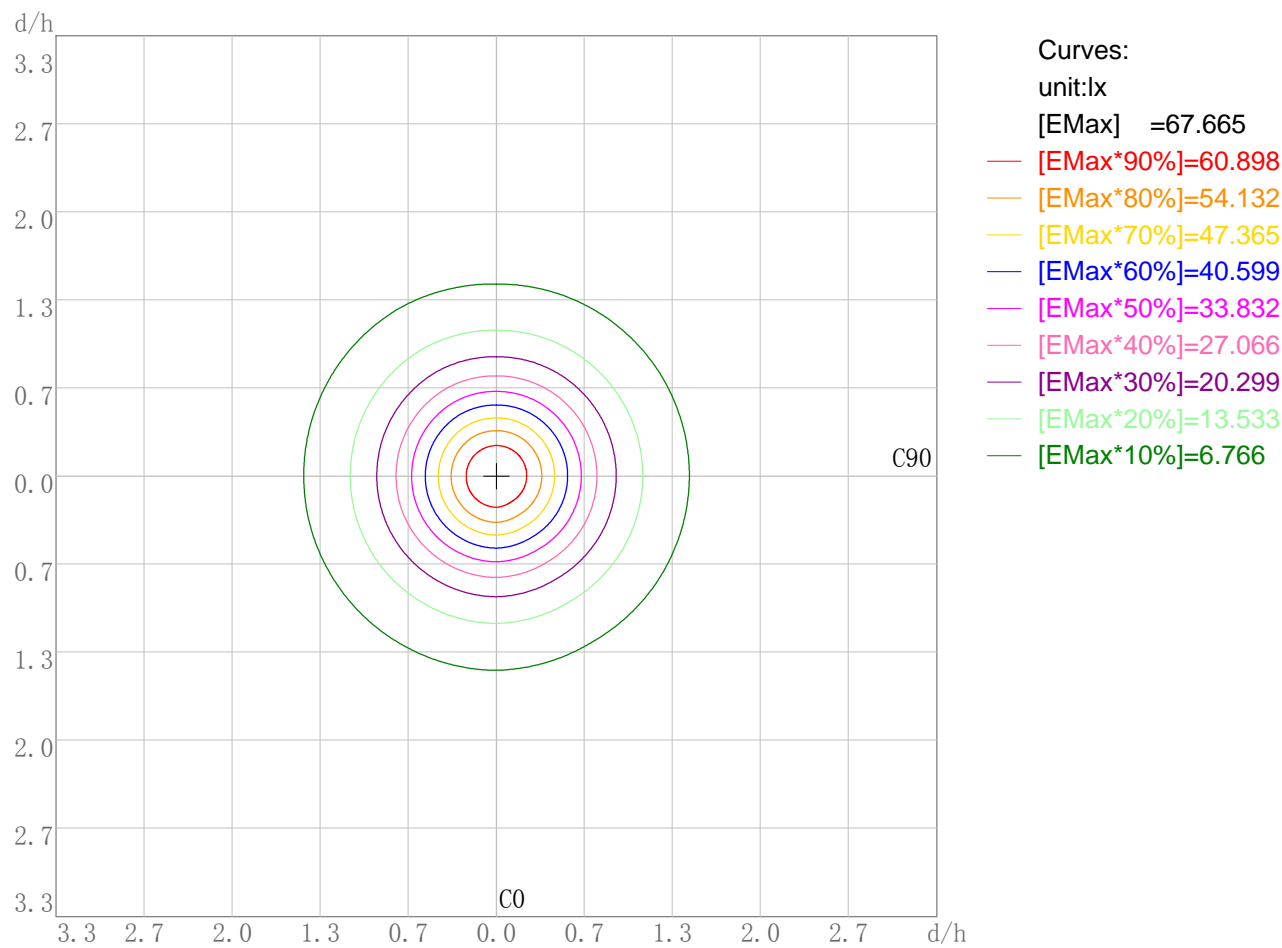
Maximum Light Intensity(cd): 608.98

Maximum Cand.@Angle: H=0.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED365 (4000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

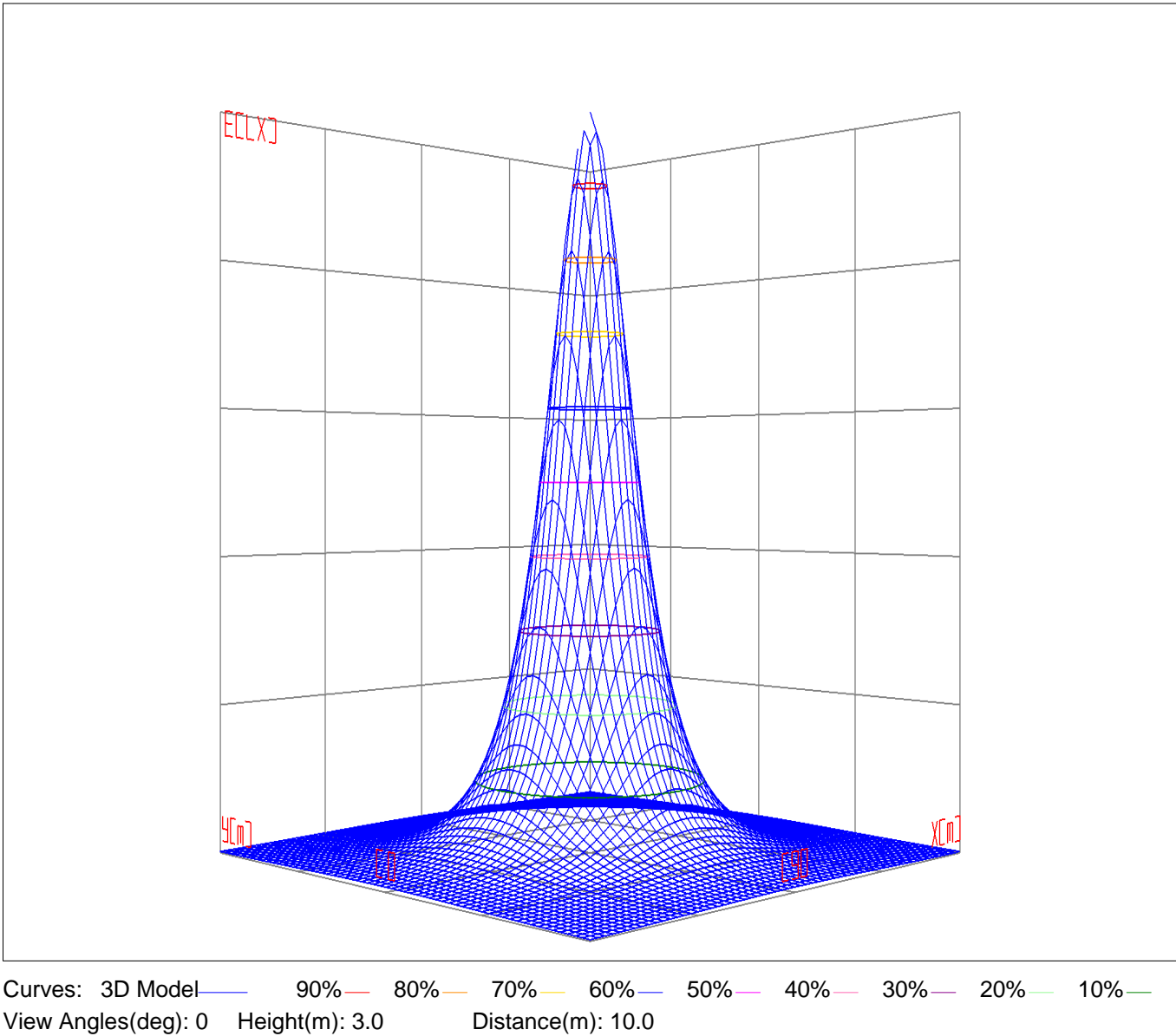
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: LED365 (4000K 16W)	Lum. Catelog:	Test ID: 20230427
Lamp Name:	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

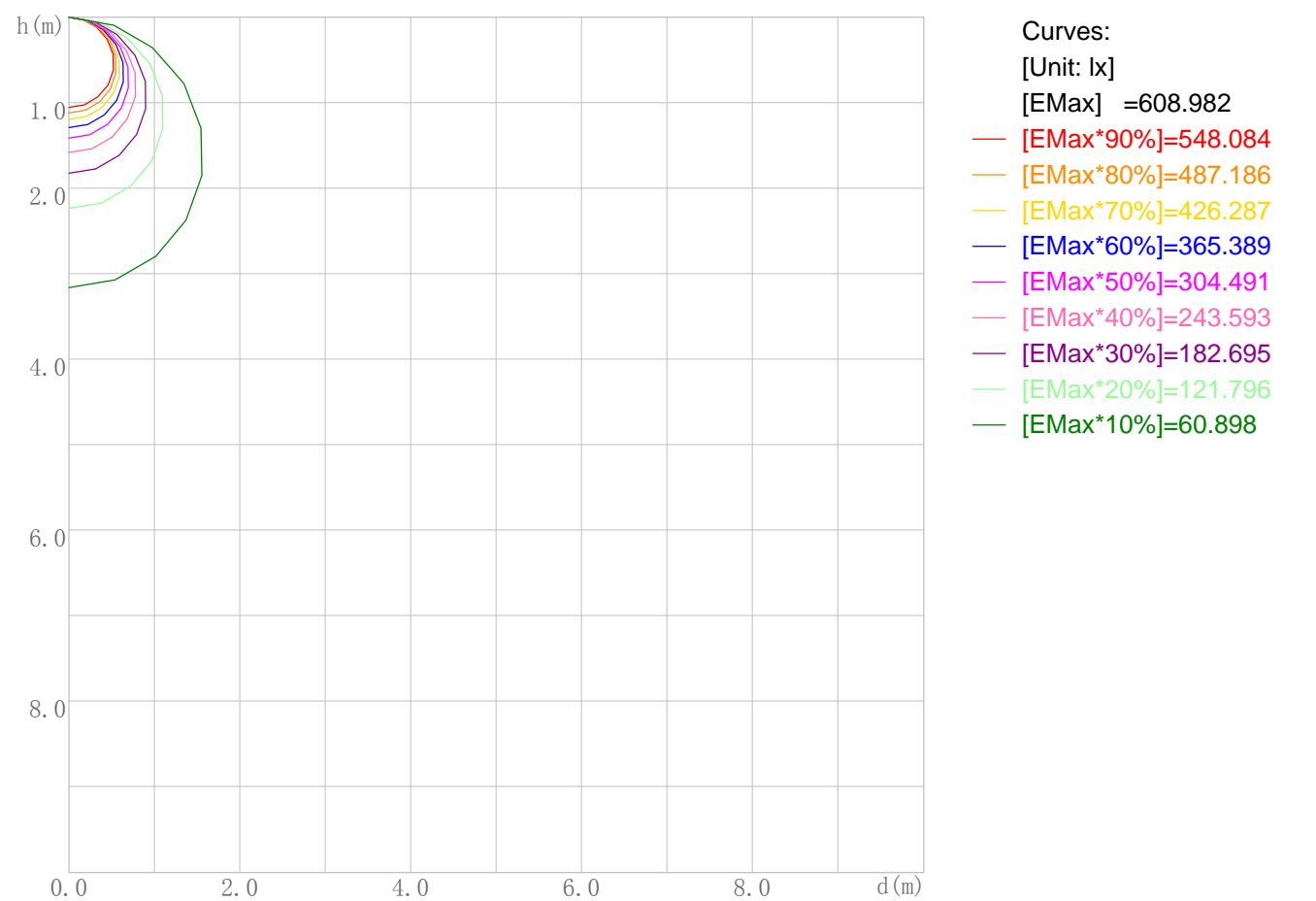
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED365 (4000K 16W)	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

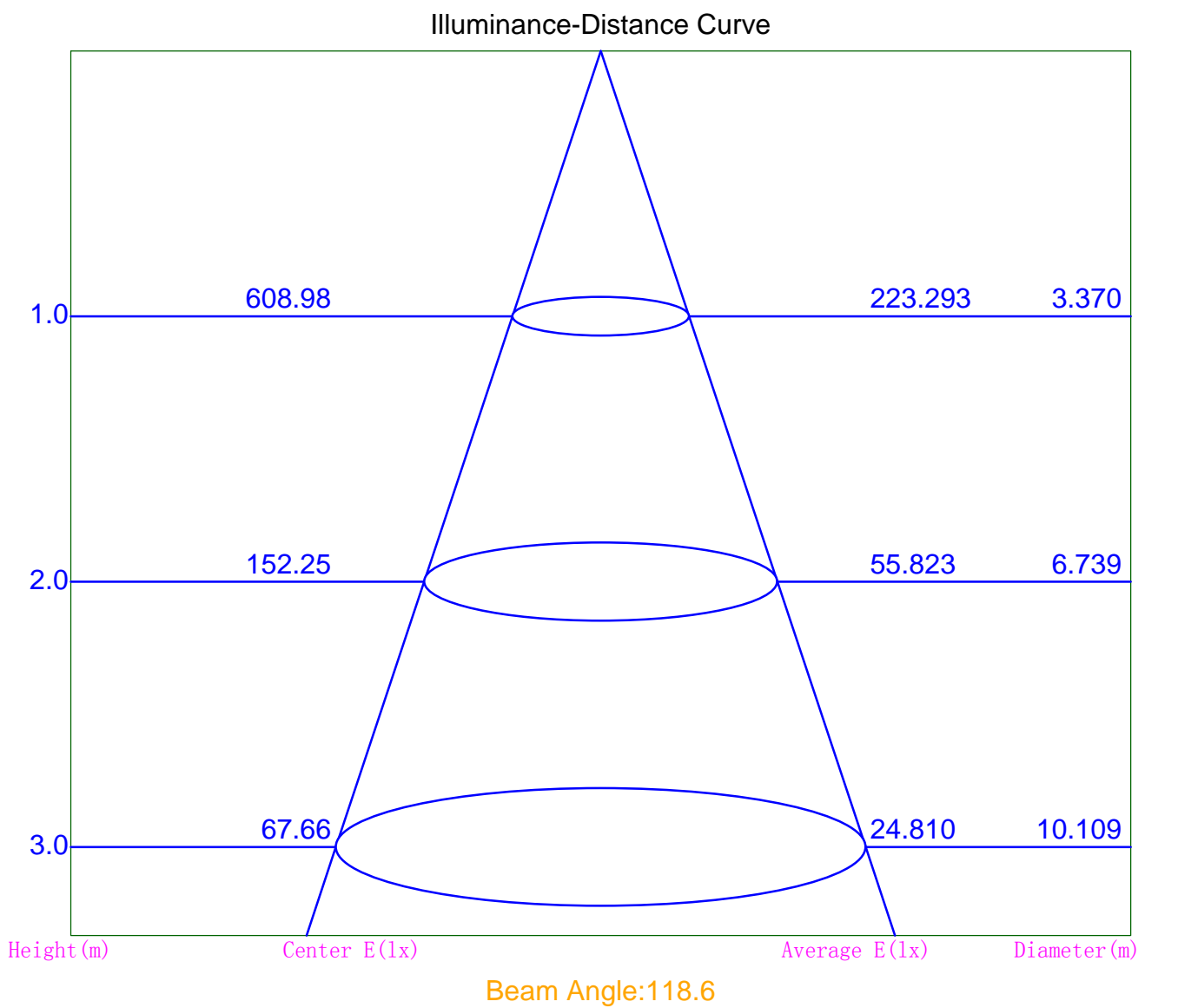


Space Plane Maximum Illuminance and @Angle:608.98lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:608.982cd,0deg



Illuminance-Distance Diagram

Lum. Name: LED365 (4000K 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 (4000K 16W)	Lum. Catalog:	Test ID: 20230427
Lamp Name:	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/04/27

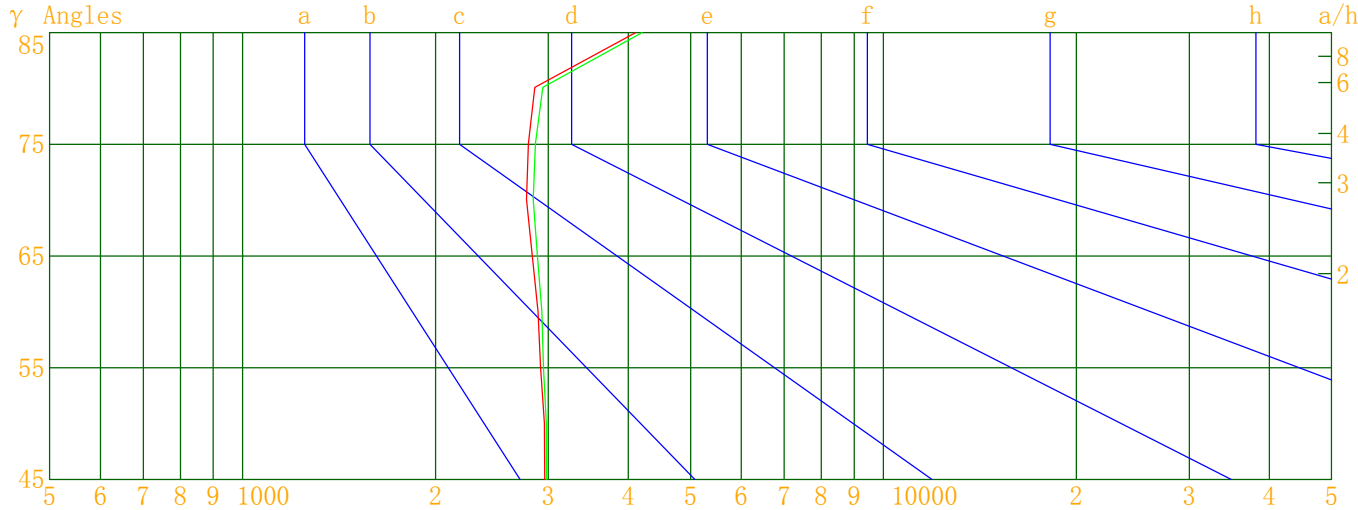
Glare Grade Table

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	2963	2957	2917	2891	2833	2774	2791	2857	4104
C90	2980	2980	2948	2932	2885	2842	2865	2942	4201

Luminance Limiting Curve



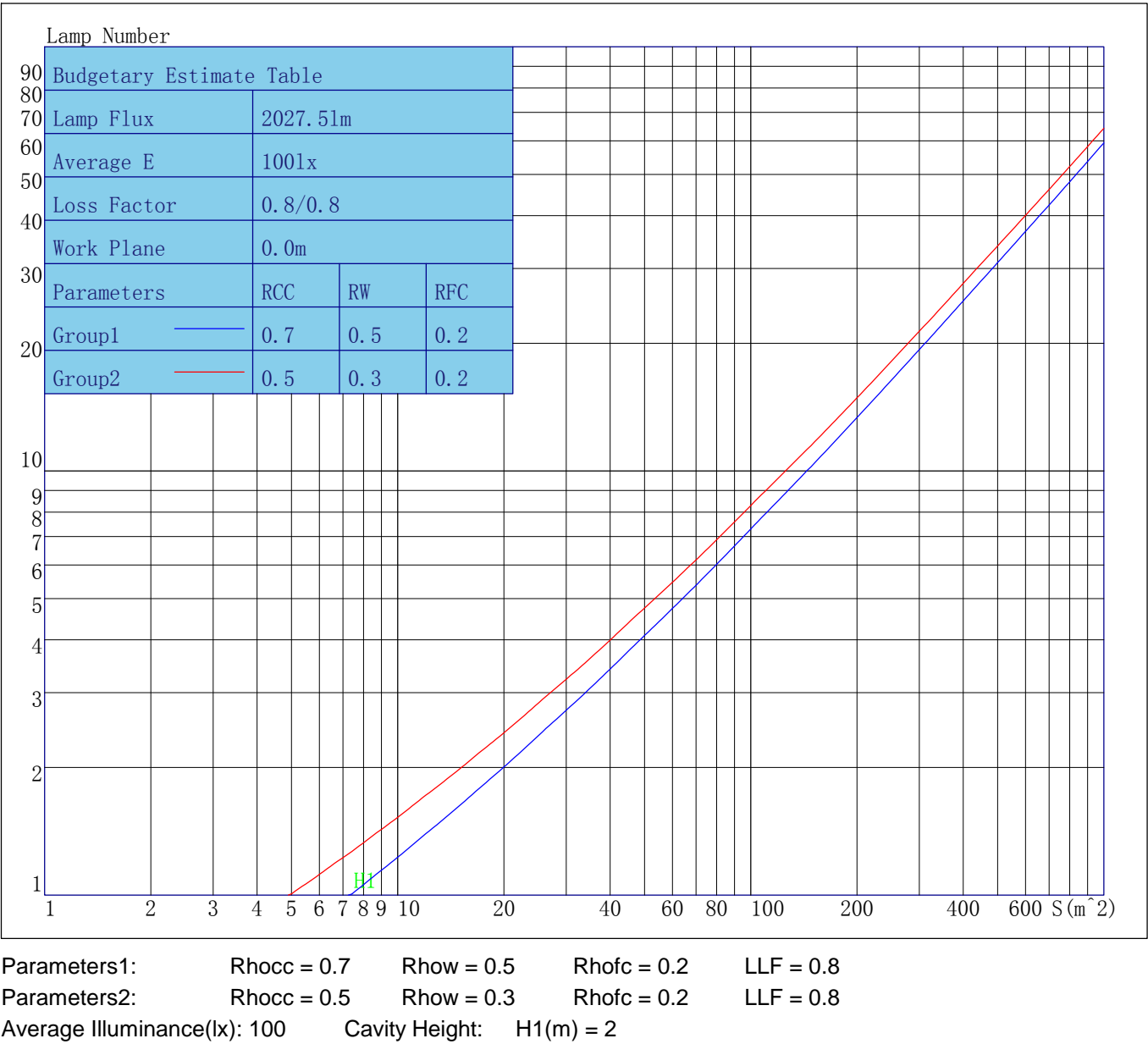
Luminous Size: Length(m)=0.400 Width(m)=0.400 Height(m)=0.107 Area(m^2)=0.202800

Luminous Type: Without Luminous Side

Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: LED365 (4000K 16W)	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 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	114	114	114	114	110	110	110	110	104	104	104	99	99	99	94	94	94	91
1	103	98	93	89	99	95	91	87	90	86	83	85	82	80	81	78	76	74
2	93	84	77	72	90	82	76	70	78	72	68	74	69	65	70	66	63	61
3	84	74	66	59	82	72	64	58	68	62	56	65	59	55	62	57	53	51
4	77	65	56	50	74	63	55	49	60	53	48	57	51	46	55	50	45	43
5	71	58	49	42	68	57	48	42	54	47	41	51	45	40	49	44	39	37
6	65	52	43	37	63	51	43	37	49	41	36	46	40	35	44	39	34	32
7	60	47	38	32	58	46	38	32	44	37	32	42	36	31	40	35	30	28
8	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	31	27	25
9	52	39	31	26	51	39	31	26	37	30	25	36	29	25	34	29	24	23
10	49	36	28	23	48	36	28	23	34	27	23	33	27	22	32	26	22	20

Unified Glare Rating Table

Lum. Name: LED365 (4000K 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	16.9	20.5	17.9	21.4	22.4	17.0	20.6	18.0	21.5	22.4
	Y=3H	21.8	25.4	22.8	26.3	27.3	21.9	25.5	22.9	26.5	27.4
	Y=4H	24.9	28.0	25.9	29.0	29.9	25.1	28.2	26.1	29.2	30.1
	Y=6H	27.1	30.2	28.1	31.1	32.1	27.3	30.4	28.3	31.3	32.3
	Y=8H	28.2	31.2	29.2	32.2	33.1	28.4	31.4	29.4	32.4	33.3
	Y=12H	29.3	32.3	30.3	33.3	34.2	29.5	32.5	30.5	33.5	34.4
X=4H	Y=2H	18.7	21.8	19.7	22.8	23.7	18.7	21.8	19.7	22.8	23.7
	Y=3H	23.8	27.0	24.9	27.9	28.9	23.9	27.1	24.9	28.0	29.0
	Y=4H	25.5	27.5	26.8	28.7	29.8	25.6	27.6	26.9	28.8	30.0
	Y=6H	28.4	30.1	29.6	31.3	32.5	28.5	30.3	29.8	31.5	32.6
	Y=8H	29.8	31.5	31.1	32.7	33.9	29.9	31.6	31.2	32.9	34.0
	Y=12H	30.4	31.8	31.8	33.2	34.4	30.6	32.0	32.0	33.4	34.6
X=8H	Y=4H	26.1	27.8	27.4	29.1	30.2	26.3	28.0	27.6	29.2	30.3
	Y=6H	28.5	29.7	29.9	31.1	32.3	28.7	29.9	30.1	31.2	32.5
	Y=8H	29.8	30.8	31.3	32.2	33.5	30.0	30.9	31.4	32.4	33.7
	Y=12H	31.8	32.7	33.3	34.1	35.5	32.0	32.9	33.5	34.3	35.6
X=12H	Y=4H	25.3	26.8	26.7	28.1	29.4	25.5	26.9	26.8	28.2	29.5
	Y=6H	28.2	29.2	29.7	30.6	32.0	28.3	29.3	29.8	30.8	32.1
	Y=8H	30.1	31.0	31.6	32.4	33.7	30.2	31.1	31.7	32.6	33.9
Variations with the objerver position at spacings											
S=1.0H		2.3/-1.0					2.3/-1.1				
S=1.5H		-1.0/-18.5					-1.1/-18.6				
S=2.0H		-1.0/-18.5					-1.1/-18.6				

IES Indoor Report  
Photometric Filename: LED365 (4000K 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	608.98	608.98	608.98	608.98	608.98	608.98	608.98	608.98	608.98	608.98	608.98	608.98
γ 10.0	601.37	600.97	600.29	599.37	598.13	596.90	602.78	600.99	599.99	599.42	599.42	599.72
γ 20.0	573.78	574.18	573.88	572.95	571.09	569.12	577.14	574.67	573.16	572.67	573.40	574.61
γ 30.0	527.70	529.01	529.07	528.16	525.82	523.18	532.96	529.72	527.89	527.53	528.87	530.91
γ 40.0	464.31	466.53	466.89	466.15	463.29	460.08	471.39	467.55	465.44	465.27	467.09	470.00
γ 50.0	385.45	388.45	389.21	388.42	385.38	381.57	394.13	389.65	387.48	387.33	389.79	393.23
γ 60.0	293.16	297.01	298.05	297.32	294.01	289.92	303.10	298.30	296.00	296.06	298.93	302.90
γ 70.0	192.44	196.65	197.79	197.13	193.74	189.62	202.61	197.95	195.71	196.18	199.05	203.30
γ 80.0	100.60	103.79	104.49	103.62	100.96	97.81	107.58	103.93	102.86	103.37	105.97	109.28
γ 90.0	44.47	45.34	45.32	44.88	43.23	42.24	46.94	45.25	44.61	45.03	46.66	48.62
γ 100.0	27.52	25.81	23.90	23.48	22.43	23.86	25.86	24.86	24.30	25.06	25.77	27.47
γ 110.0	18.64	22.36	18.66	17.82	17.54	20.53	17.28	20.59	18.32	19.24	19.80	23.18
γ 120.0	15.93	19.13	15.64	14.15	14.81	17.58	14.87	17.51	14.53	13.78	15.88	19.71
γ 130.0	15.38	15.59	12.46	11.59	12.19	14.22	14.52	14.35	11.76	11.34	12.97	15.93
γ 140.0	11.48	11.68	9.63	8.92	9.39	10.77	11.18	11.07	9.24	8.87	10.09	12.00
γ 150.0	7.92	8.17	7.10	6.15	7.00	7.70	8.05	8.01	6.98	6.05	7.48	8.54
γ 160.0	5.29	5.49	5.22	4.86	5.18	5.25	5.55	5.49	5.18	4.80	5.41	5.71
γ 170.0	4.65	4.64	4.60	4.61	4.60	4.60	4.59	4.55	4.57	4.62	4.66	4.70
γ 180.0	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66