

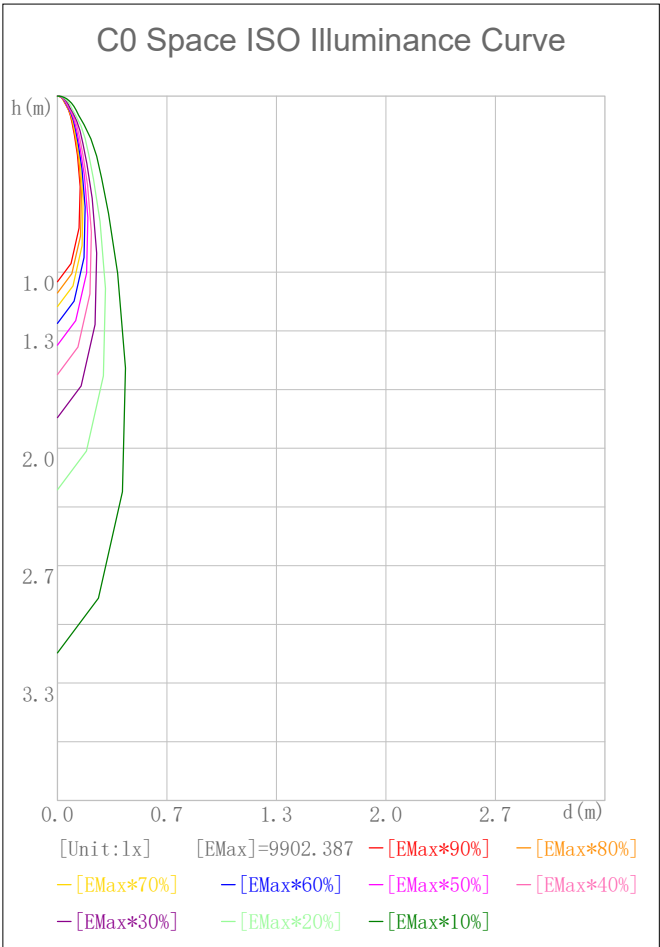
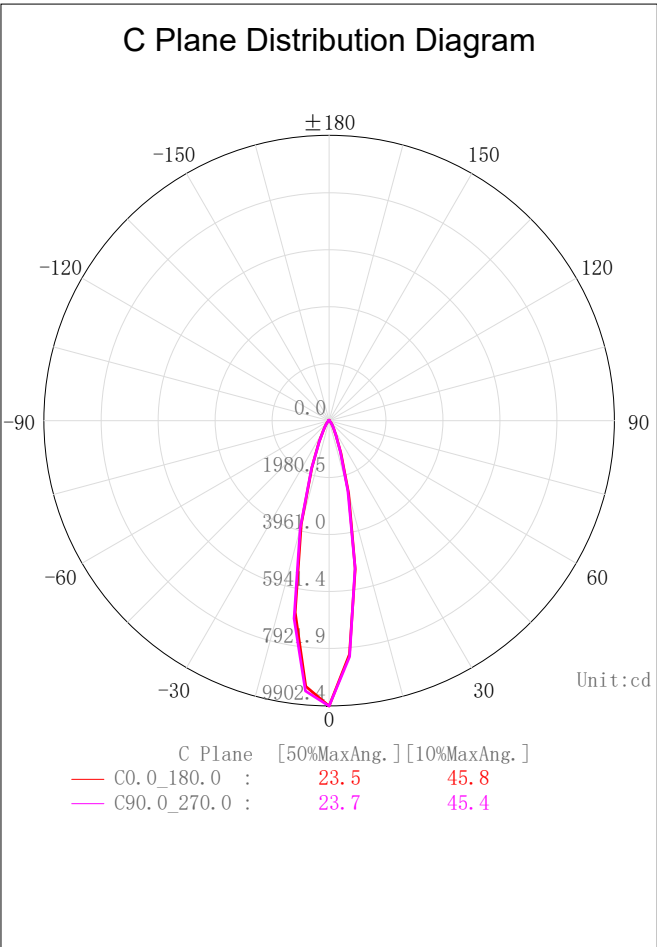
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/09
Manufacture: Shenzhen Norming Lighting	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.083m*0.083m*0.000m	Lum. Area (m2):0.007	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

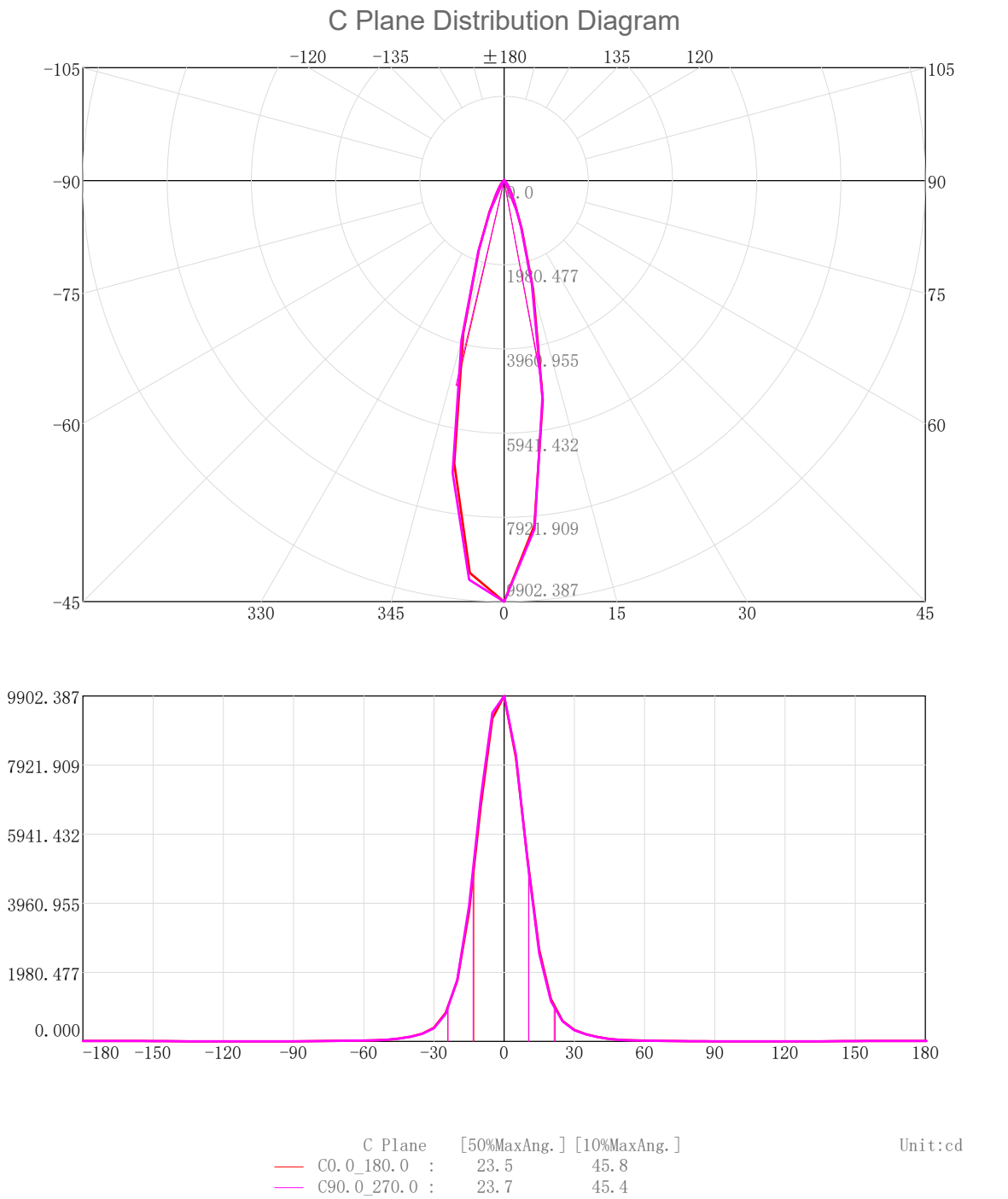
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2358.600	Luminary Flux(lm): 2358.599	Field Angle(10%Imax): 45.8(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2323.086lm 98.49%
Rated Voltage(V):	Luminary EER(lm/W): 97.423	Up Lumens&Percent: 35.514lm 1.51%
Tested Power(W): 24.210	Max. Candela(cd): 9902.387	S/MH: C0_a180=0.398 C90_270=0.402
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):239.7, 0.104, 0.967	Beam Angle(50%Imax): 23.5(°)	ErP Φ use(90°): 2216.000lm
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-13.0°, Right=10.5°	IRF(%): 974.382



2D Plane Light Intensity Distribution Curve

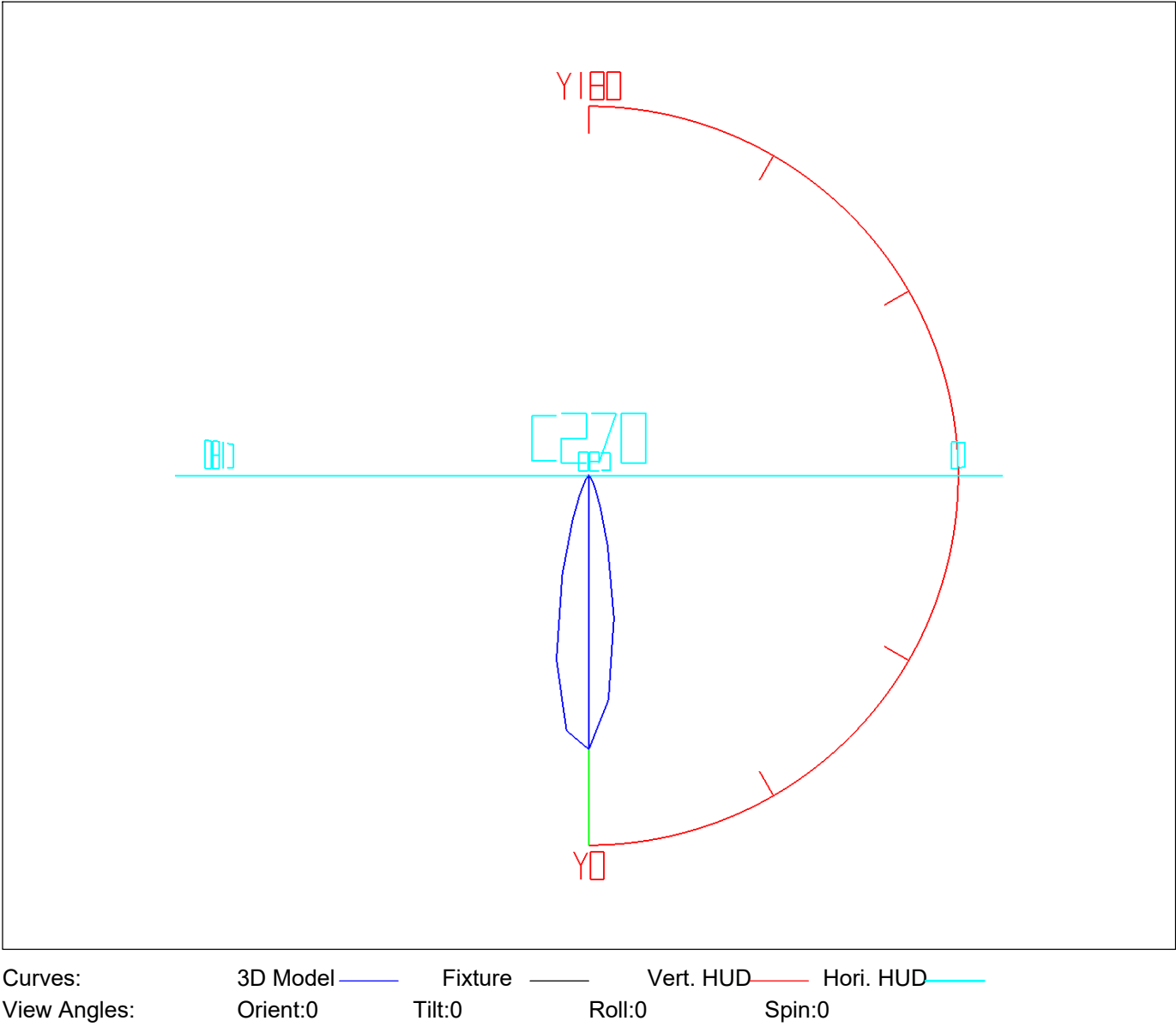
Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09



3D Light Intensity Distribution Modal

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

3D Light Intensity Distribution Modal

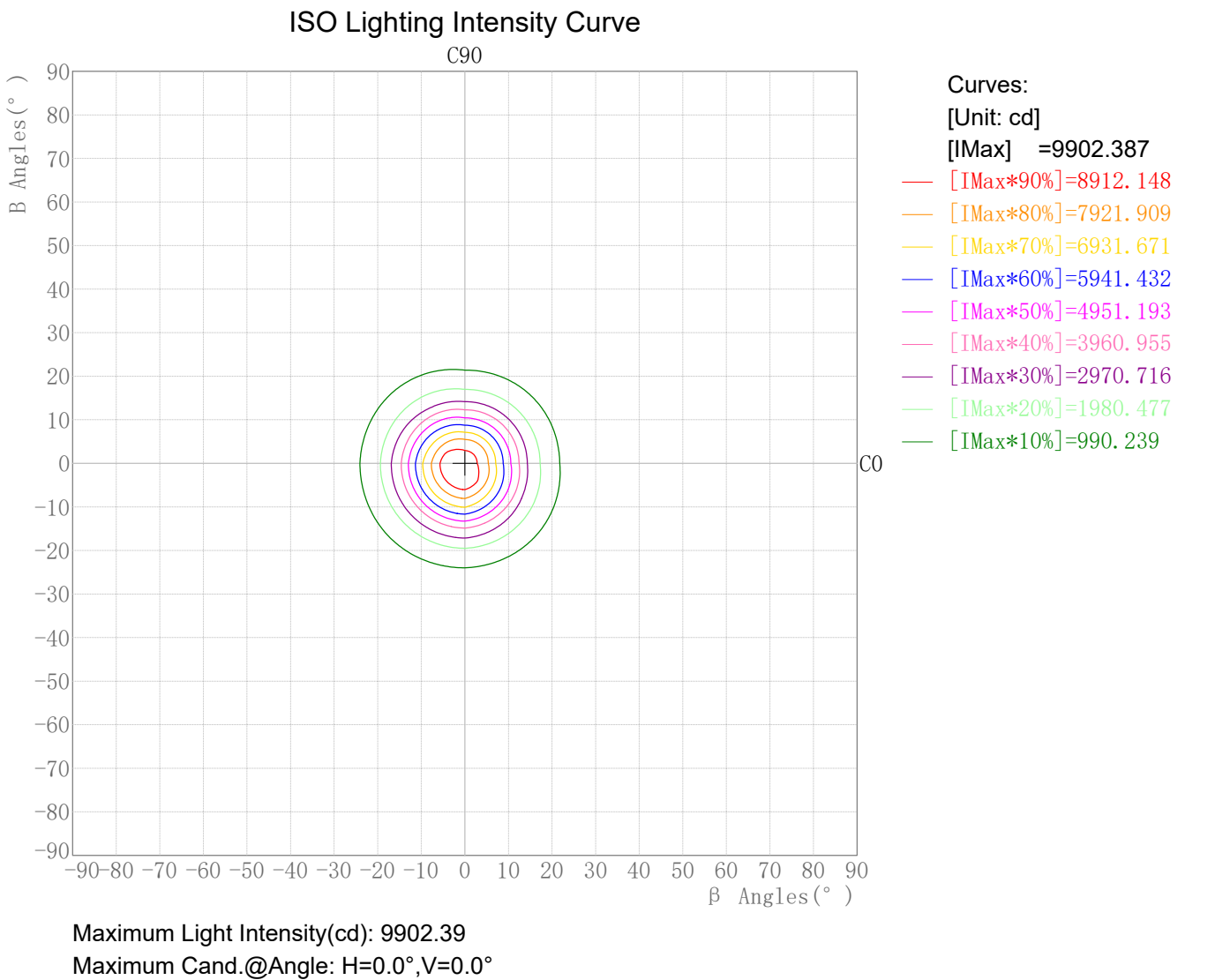


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-5. 0	223. 10	223. 10	9. 46	9. 46
5. 0-10. 0	529. 26	752. 36	22. 44	31. 90
10. 0-15. 0	546. 84	1299. 21	23. 19	55. 08
15. 0-20. 0	383. 24	1682. 45	16. 25	71. 33
20. 0-25. 0	226. 59	1909. 03	9. 61	80. 94
25. 0-30. 0	132. 91	2041. 94	5. 64	86. 57
30. 0-35. 0	83. 99	2125. 94	3. 56	90. 14
35. 0-40. 0	57. 72	2183. 66	2. 45	92. 58
40. 0-45. 0	38. 95	2222. 60	1. 65	94. 23
45. 0-50. 0	25. 07	2247. 67	1. 06	95. 30
50. 0-55. 0	17. 41	2265. 08	0. 74	96. 04
55. 0-60. 0	14. 23	2279. 32	0. 60	96. 64
60. 0-65. 0	12. 03	2291. 35	0. 51	97. 15
65. 0-70. 0	9. 92	2301. 27	0. 42	97. 57
70. 0-75. 0	7. 95	2309. 22	0. 34	97. 91
75. 0-80. 0	6. 12	2315. 34	0. 26	98. 17
80. 0-85. 0	4. 52	2319. 86	0. 19	98. 36
85. 0-90. 0	3. 22	2323. 09	0. 14	98. 49
90. 0-95. 0	2. 37	2325. 45	0. 10	98. 59
95. 0-100. 0	1. 91	2327. 36	0. 08	98. 68
100. 0-105. 0	1. 59	2328. 95	0. 07	98. 74
105. 0-110. 0	1. 34	2330. 29	0. 06	98. 80
110. 0-115. 0	1. 15	2331. 44	0. 05	98. 85
115. 0-120. 0	1. 10	2332. 54	0. 05	98. 90
120. 0-125. 0	1. 15	2333. 69	0. 05	98. 94
125. 0-130. 0	1. 39	2335. 08	0. 06	99. 00
130. 0-135. 0	1. 87	2336. 95	0. 08	99. 08
135. 0-140. 0	2. 48	2339. 43	0. 11	99. 19
140. 0-145. 0	3. 08	2342. 52	0. 13	99. 32
145. 0-150. 0	3. 49	2346. 00	0. 15	99. 47
150. 0-155. 0	3. 50	2349. 51	0. 15	99. 61
155. 0-160. 0	3. 15	2352. 65	0. 13	99. 75
160. 0-165. 0	2. 58	2355. 23	0. 11	99. 86
165. 0-170. 0	1. 88	2357. 11	0. 08	99. 94
170. 0-175. 0	1. 12	2358. 23	0. 05	99. 98
175. 0-180. 0	0. 37	2358. 60	0. 02	100. 00

Rectangle ISO Lighting Intensity Diagram

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

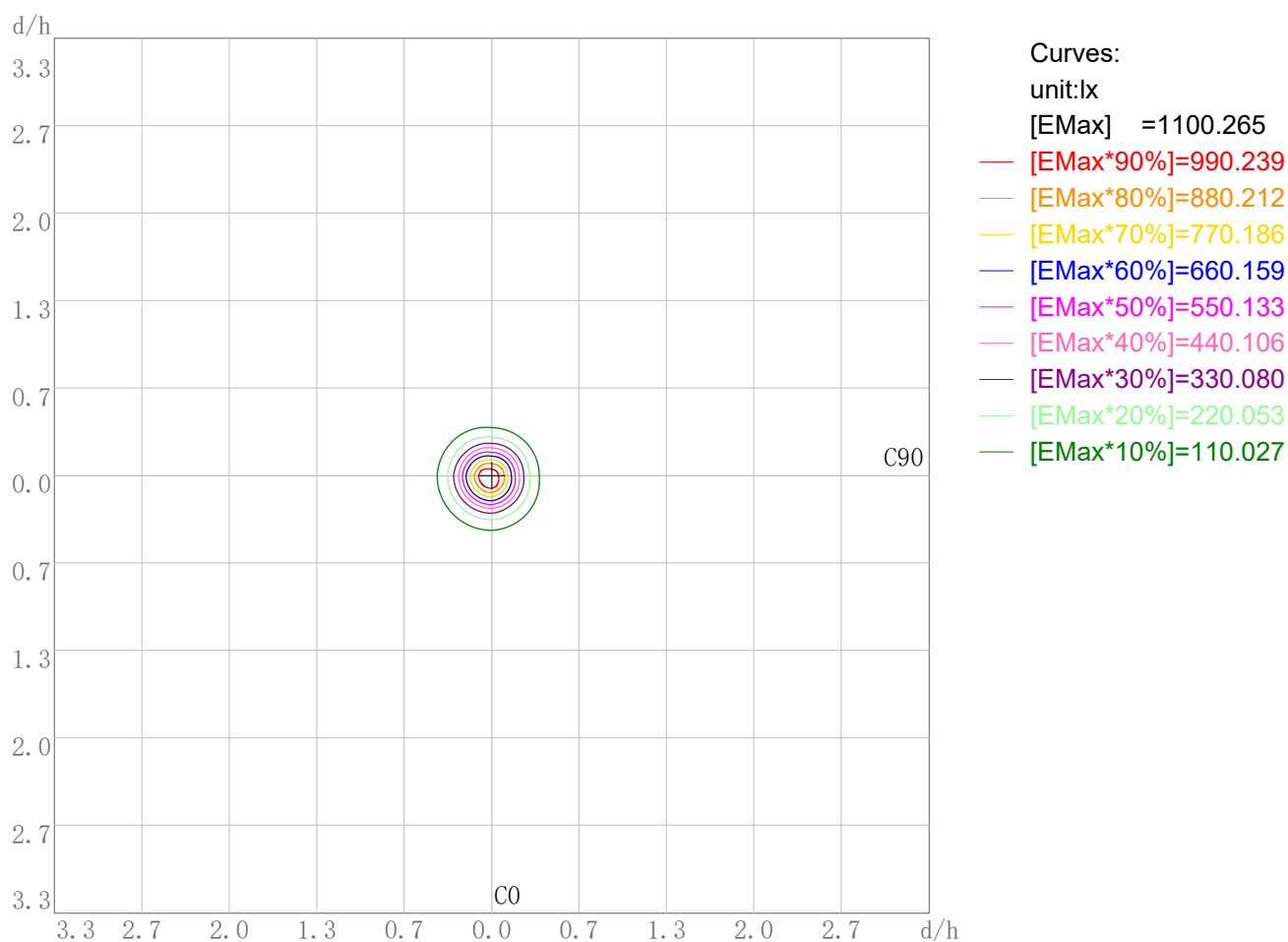


Photometric Filename:DL51-25-XX-01 4000K RA90 24D 白色.IES

Plane ISO-Illuminance Diagram

Lum. Name: DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/09

Plane ISO-Illuminance Curve

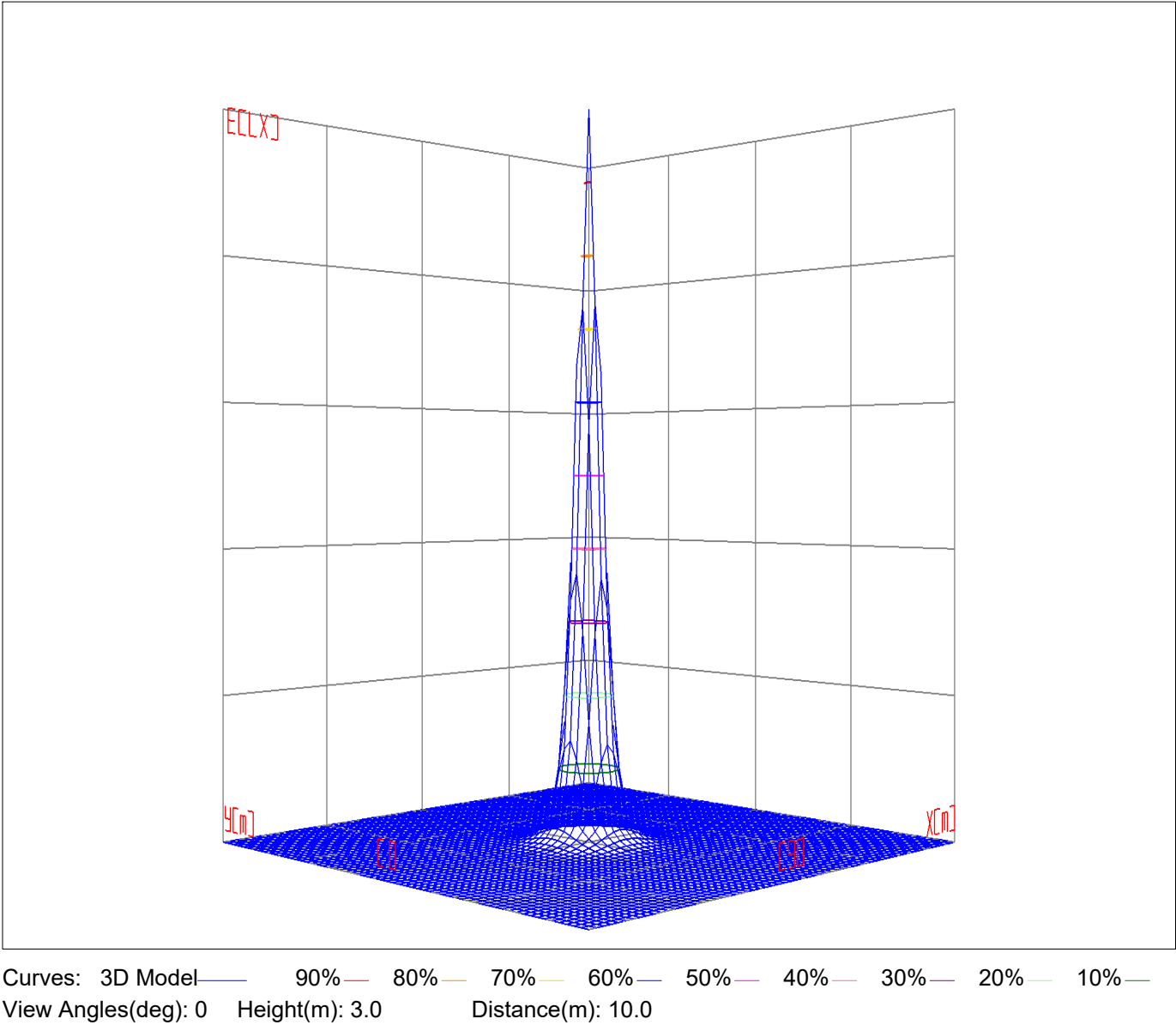


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 1100.27
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

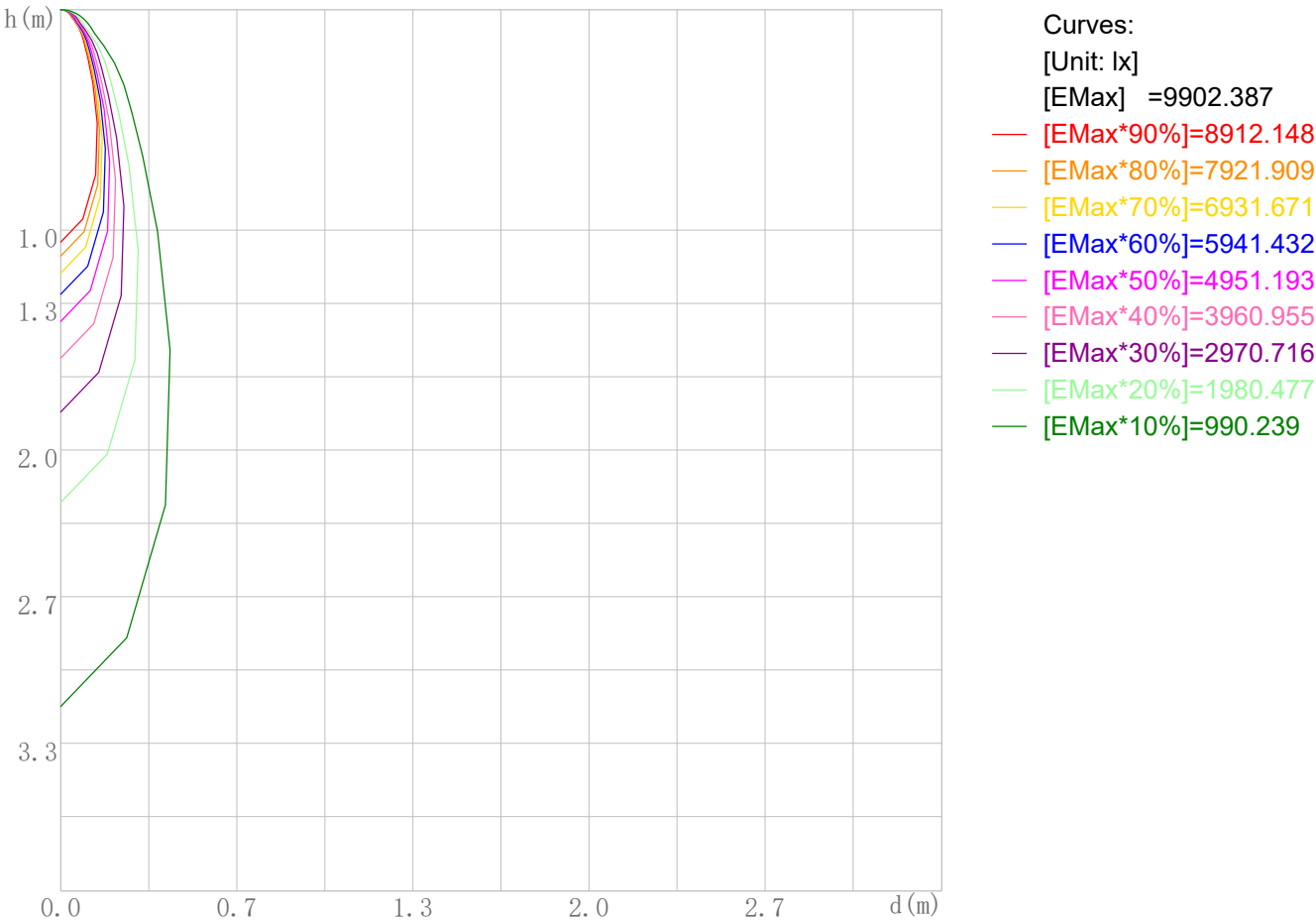
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

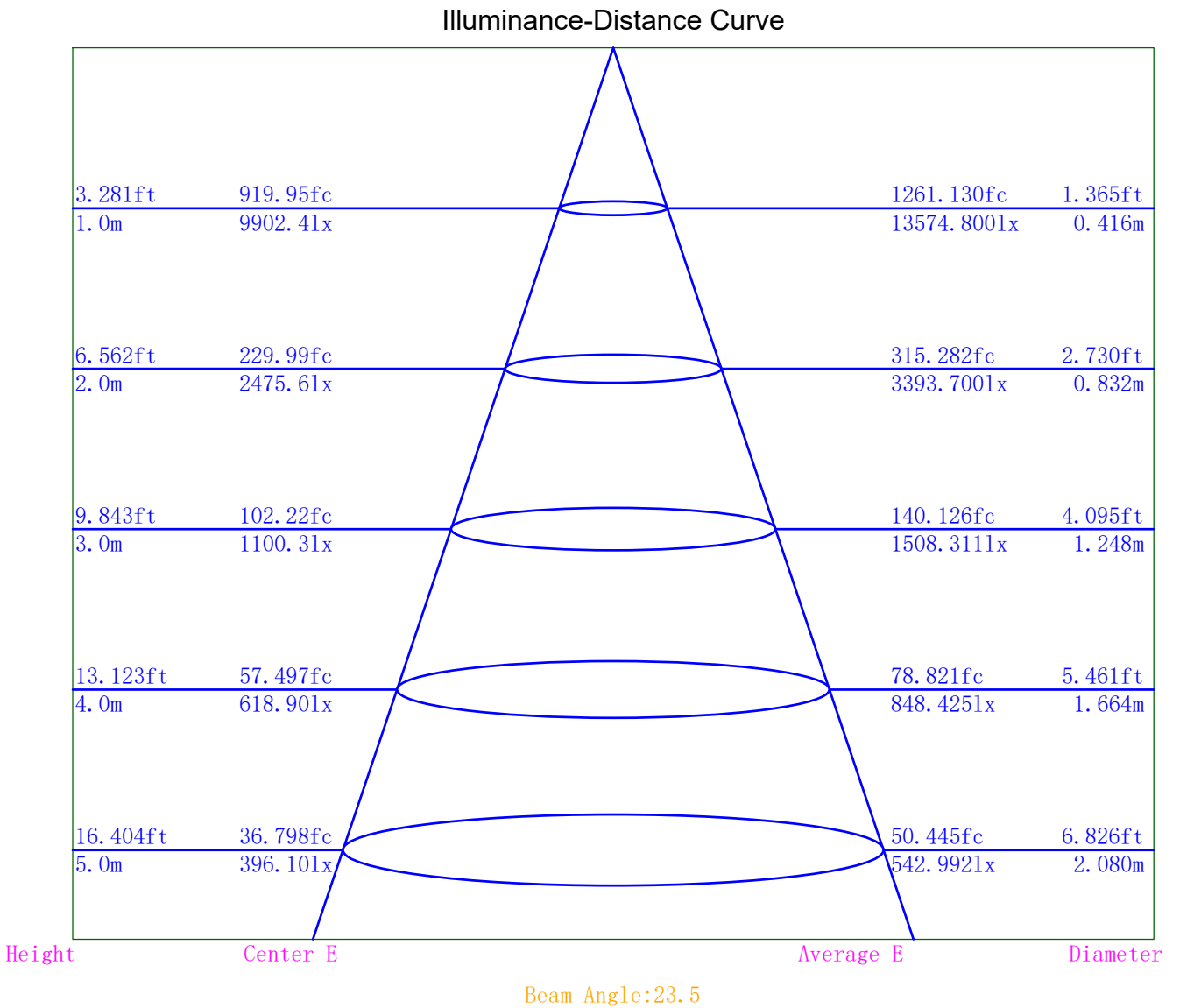
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:9902.39lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:9902.387cd,0deg

Illuminance-Distance Diagram

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09



Indoor Luminance Limiting Curves

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

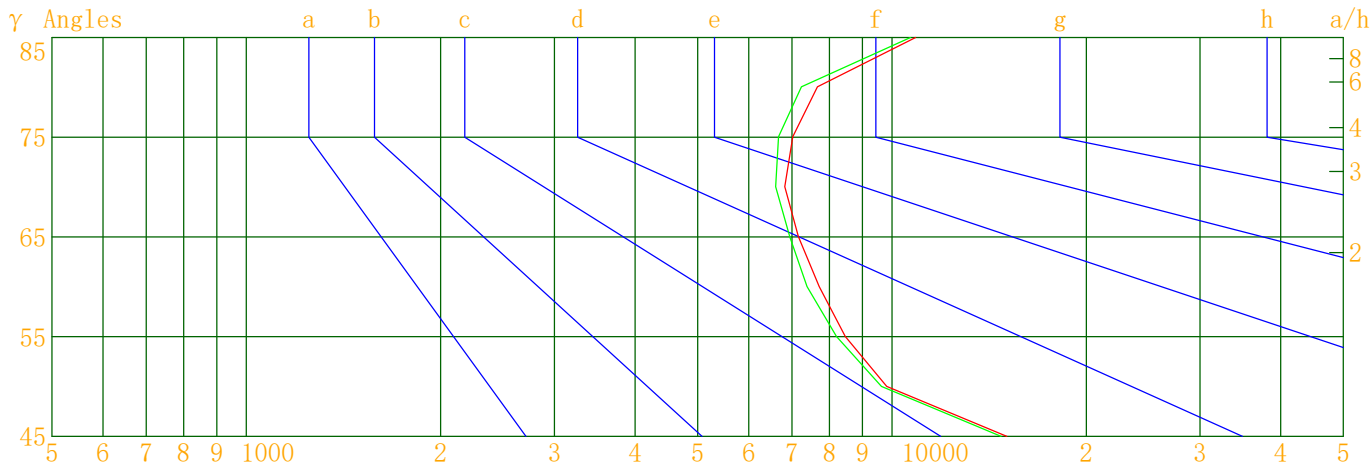
Glare Grade Table

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	15062	9814	8465	7712	7160	6821	7022	7666	10879
C90	14756	9632	8204	7385	6945	6605	6671	7240	10678

Luminance Limiting Curve



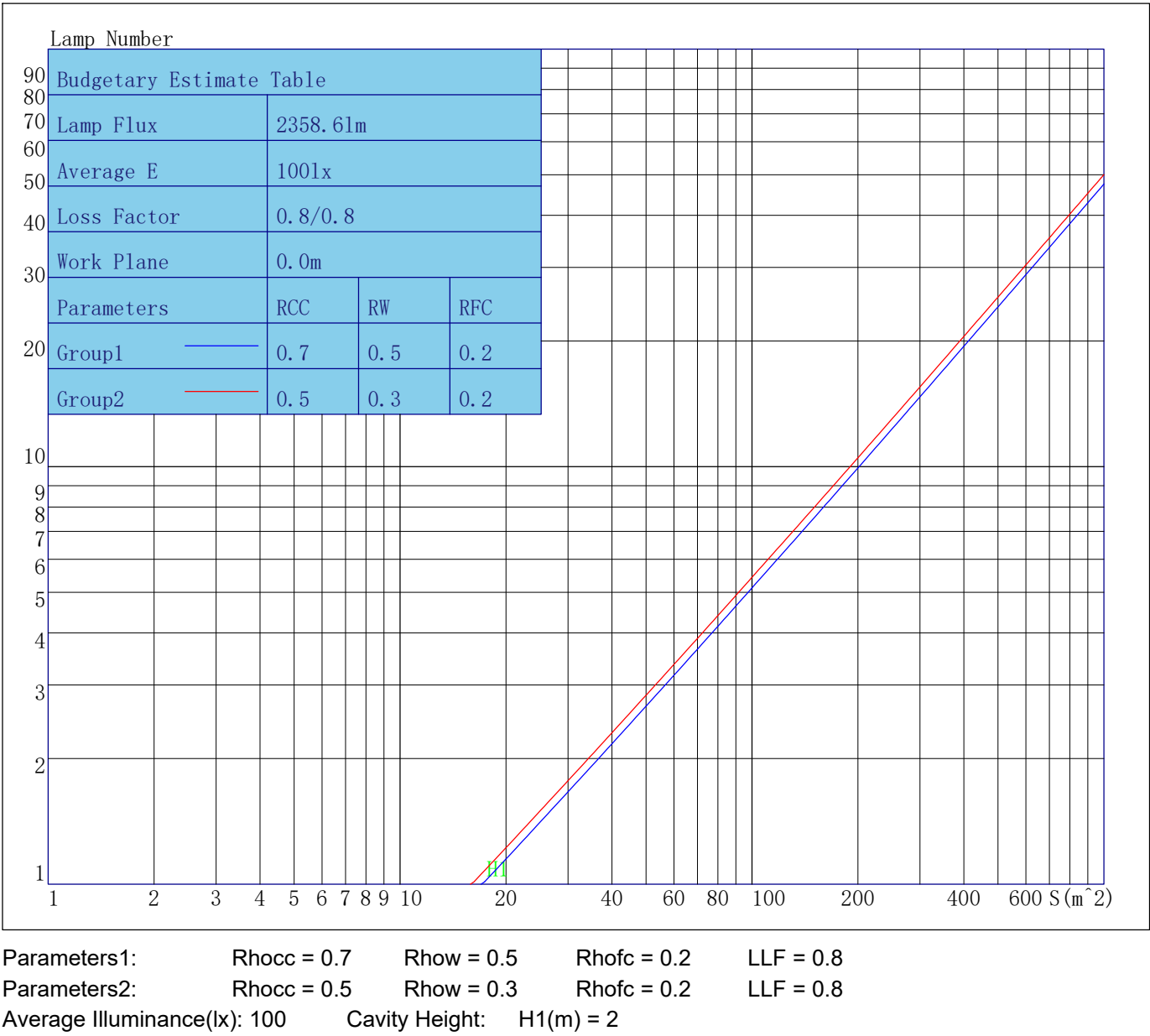
Luminous Size:Length(m)=0.083Width(m)=0.083Height(m)=0.000Area(m^2)=0.006889

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catalog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09



Indoor Coefficient of Utilization Table

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	114	112	109	107	111	109	107	106	105	104	102	101	100	99	97	97	96	94
2	110	106	102	99	107	104	101	98	100	98	96	97	95	93	94	93	91	90
3	106	100	96	93	104	99	95	92	96	93	90	94	91	89	91	89	87	86
4	102	96	91	88	100	95	90	87	92	89	86	90	87	85	88	86	84	83
5	98	92	87	84	97	91	86	83	89	85	82	87	84	82	86	83	81	79
6	95	88	83	80	94	87	83	80	86	82	79	84	81	78	83	80	78	77
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	78	75	73	72
9	87	79	75	72	86	79	74	71	78	74	71	77	73	71	76	73	71	70
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68

Unified Glare Rating Table

Lum. Name:DL51-25-XX-01 4000K RA90 24D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/09

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	14.5	15.4	14.9	15.8	16.1	14.3	15.3	14.7	15.6	16.0
	15.0	15.9	15.5	16.3	16.7	14.9	15.8	15.3	16.1	16.5
	15.4	16.2	15.8	16.6	17.0	15.2	16.0	15.7	16.4	16.8
	15.7	16.5	16.2	16.9	17.3	15.6	16.3	16.0	16.7	17.1
	15.9	16.6	16.4	17.0	17.5	15.7	16.4	16.2	16.8	17.3
	16.2	16.8	16.6	17.2	17.7	16.0	16.6	16.4	17.0	17.5
X=4H Y=2H	14.6	15.4	15.0	15.7	16.2	14.5	15.2	14.9	15.6	16.1
	15.4	16.0	15.8	16.5	16.9	15.2	15.9	15.7	16.3	16.8
	15.9	16.4	16.3	16.9	17.4	15.7	16.3	16.2	16.7	17.2
	16.4	16.9	16.9	17.4	17.9	16.2	16.7	16.7	17.2	17.7
	16.7	17.1	17.2	17.6	18.1	16.5	16.9	17.0	17.4	17.9
	17.0	17.4	17.5	17.9	18.4	16.8	17.2	17.3	17.7	18.2
X=8H Y=4H	16.0	16.5	16.5	17.0	17.5	15.9	16.3	16.4	16.8	17.3
	16.7	17.1	17.3	17.6	18.2	16.6	16.9	17.1	17.4	18.0
	17.1	17.5	17.7	18.0	18.5	17.0	17.3	17.5	17.8	18.4
	17.6	17.9	18.2	18.4	19.1	17.5	17.7	18.0	18.3	18.9
X=12H Y=4H	16.0	16.4	16.5	16.9	17.4	15.9	16.3	16.4	16.8	17.3
	16.8	17.1	17.4	17.6	18.2	16.6	16.9	17.2	17.4	18.0
	17.3	17.6	17.8	18.1	18.7	17.1	17.4	17.7	17.9	18.5
Variations with the objverver position at spacings										
S=1.0H	0.2/-0.2					0.3/-0.3				
S=1.5H	0.4/-0.5					0.4/-0.5				
S=2.0H	0.5/-0.6					0.6/-0.6				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.3					2.3				

to the CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	9902.39	9902.39	9902.39	9902.39
γ 5.0	8140.25	8218.87	9258.78	9420.61
γ 10.0	5233.71	5182.40	6752.17	6973.26
γ 15.0	2620.67	2520.85	3714.94	3876.52
γ 20.0	1208.33	1150.74	1737.91	1770.72
γ 25.0	589.82	573.58	820.06	790.53
γ 30.0	331.30	322.13	394.68	378.84
γ 35.0	209.15	202.88	224.44	218.12
γ 40.0	129.34	125.65	138.37	135.91
γ 45.0	73.37	71.88	84.49	82.40
γ 50.0	43.46	42.65	48.60	49.34
γ 55.0	33.45	32.42	35.16	35.26
γ 60.0	26.56	25.44	28.83	29.15
γ 65.0	20.85	20.22	23.44	23.51
γ 70.0	16.07	15.56	18.53	18.59
γ 75.0	12.52	11.89	13.91	14.55
γ 80.0	9.17	8.66	10.49	10.26
γ 85.0	6.53	6.41	7.38	7.69
γ 90.0	4.52	4.34	4.97	5.26
γ 95.0	3.68	3.74	3.99	4.11
γ 100.0	3.40	3.33	2.91	2.95
γ 105.0	2.94	2.99	2.59	2.61
γ 110.0	2.57	2.54	2.11	2.12
γ 115.0	2.12	2.27	2.17	2.26
γ 120.0	2.31	2.09	2.49	2.42
γ 125.0	2.51	2.31	2.95	2.78
γ 130.0	3.99	3.60	3.77	3.67
γ 135.0	5.75	5.46	5.54	5.22
γ 140.0	8.15	8.16	8.05	7.34
γ 145.0	11.01	10.58	10.53	10.14
γ 150.0	13.02	13.25	13.37	12.85
γ 155.0	14.66	14.39	14.97	14.18
γ 160.0	15.31	15.10	15.99	15.36
γ 165.0	15.68	15.49	16.67	15.74
γ 170.0	15.52	15.90	16.15	15.61
γ 175.0	15.12	15.56	15.61	15.32
γ 180.0	15.49	15.49	15.49	15.49