

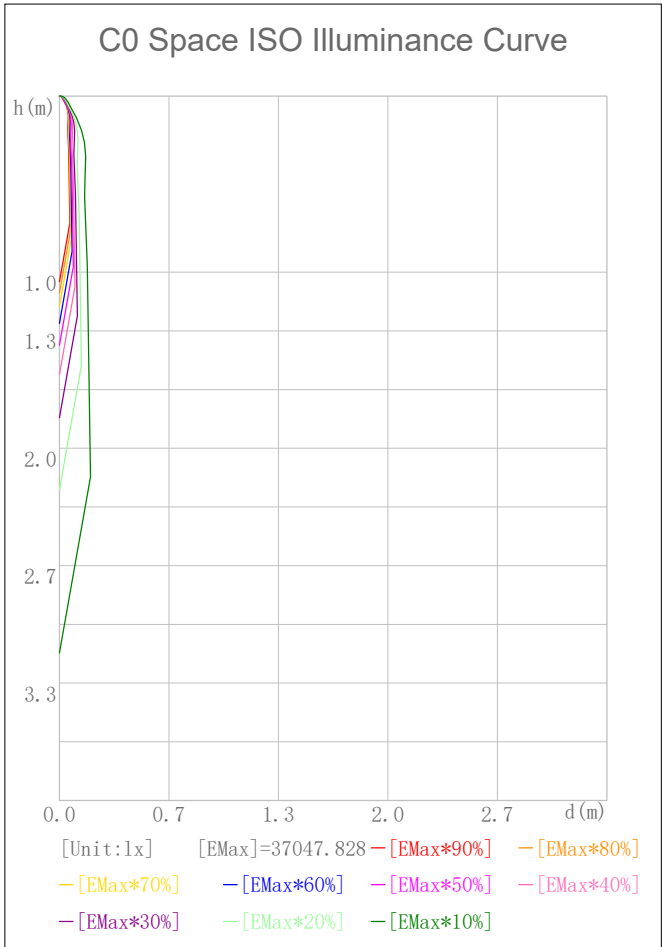
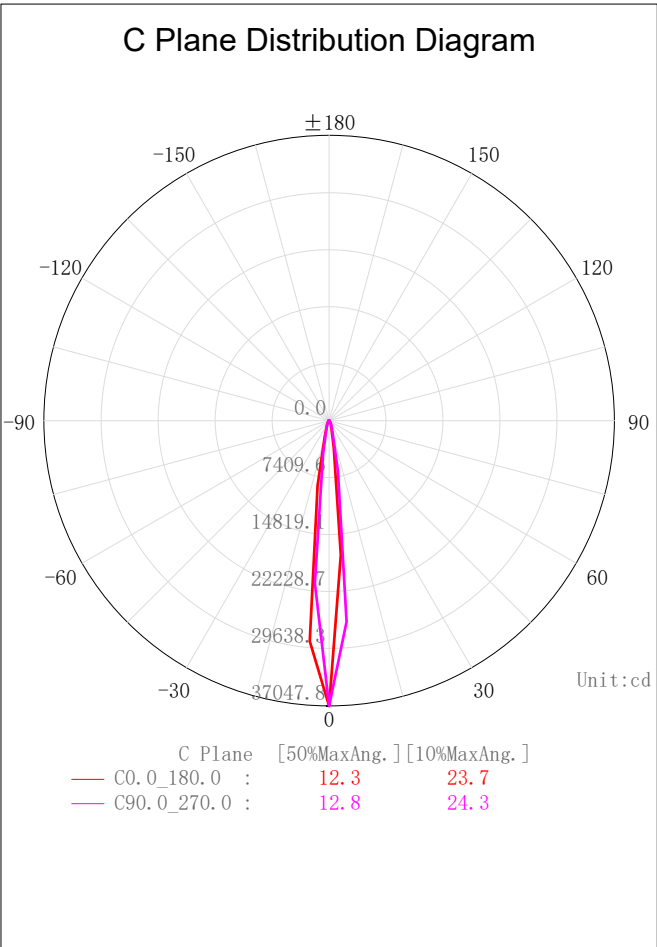
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/20
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):0.110m*0.110m*0.000m	Lum. Area (m2):0.010	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

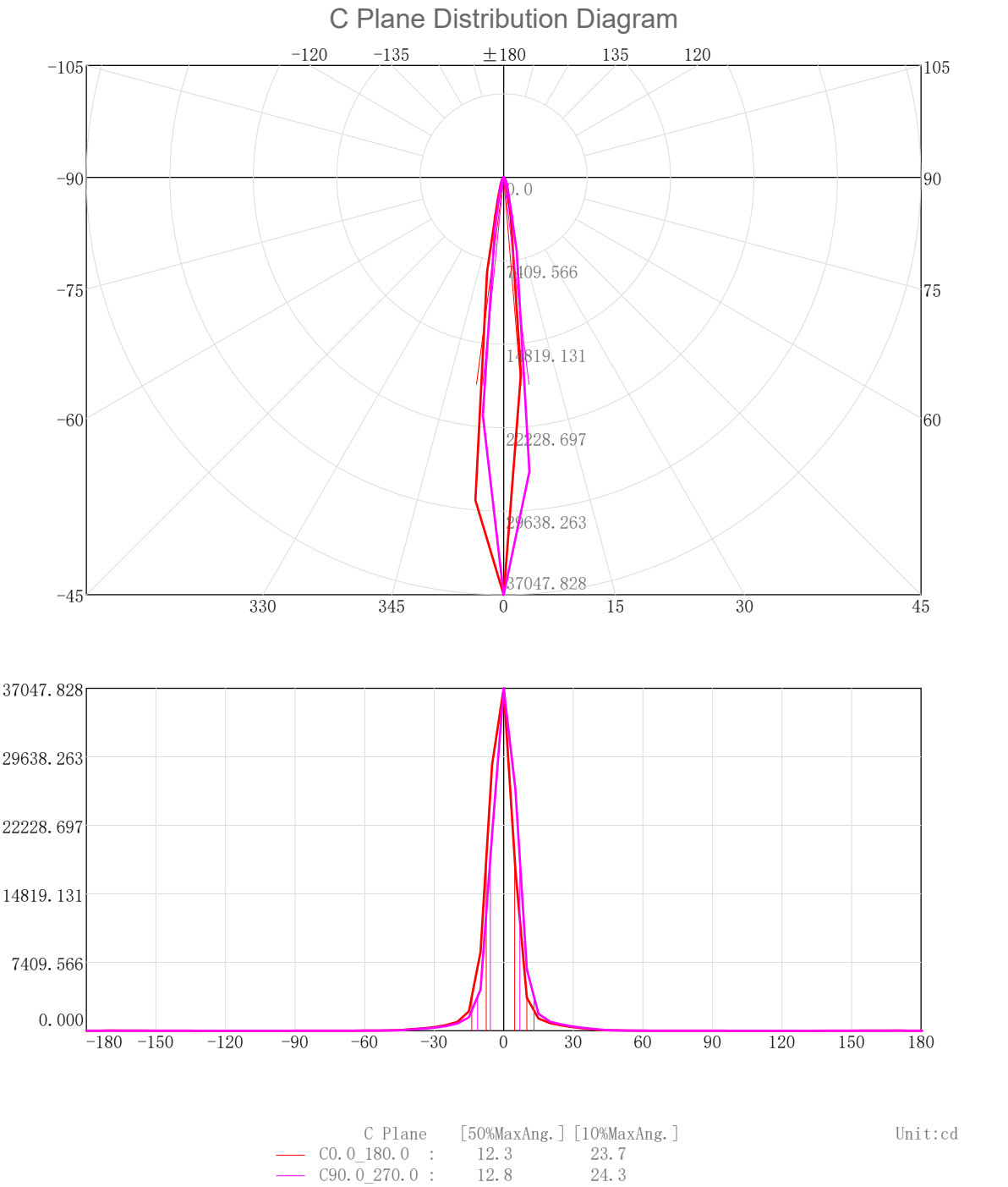
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3071.730	Luminary Flux(lm): 3071.735	Field Angle(10%Imax): 23.7(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3011.969lm 98.05%
Rated Voltage(V):	Luminary EER(lm/W): 90.425	Up Lumens&Percent: 59.766lm 1.95%
Tested Power(W): 33.970	Max. Candela(cd): 37047.828	S/MH: C0_a180=0.225 C90_270=0.221
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):239.8, 0.147, 0.960	Beam Angle(50%Imax): 12.3(°)	ErP Φ use(90°): 3067.942lm
Lamp Size (W*L*H):0.110m*0.110m*0.000m	Left=-7.5°, Right=4.7°	IRF(%): 2768.966



2D Plane Light Intensity Distribution Curve

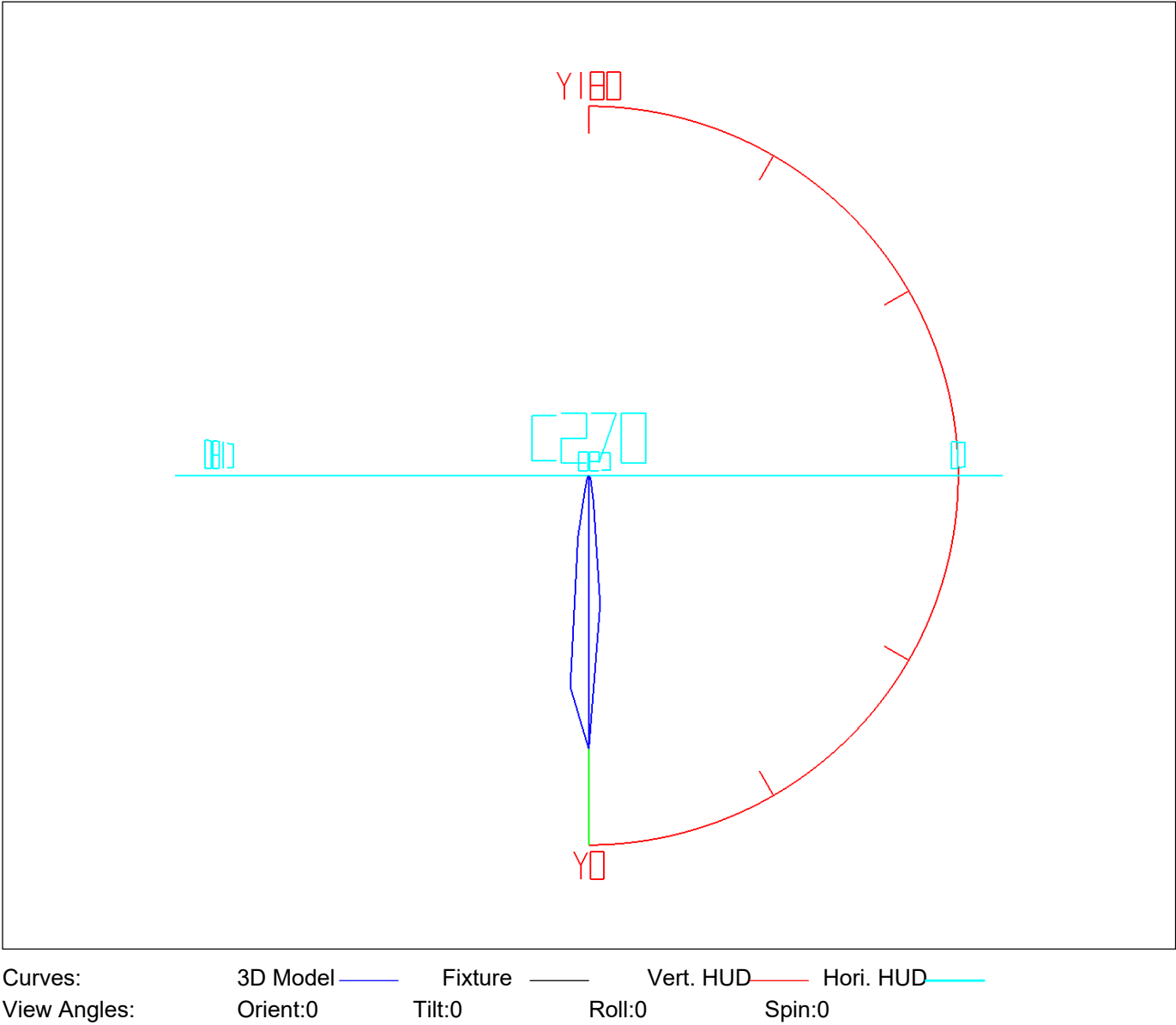
Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20



3D Light Intensity Distribution Modal

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20

3D Light Intensity Distribution Modal

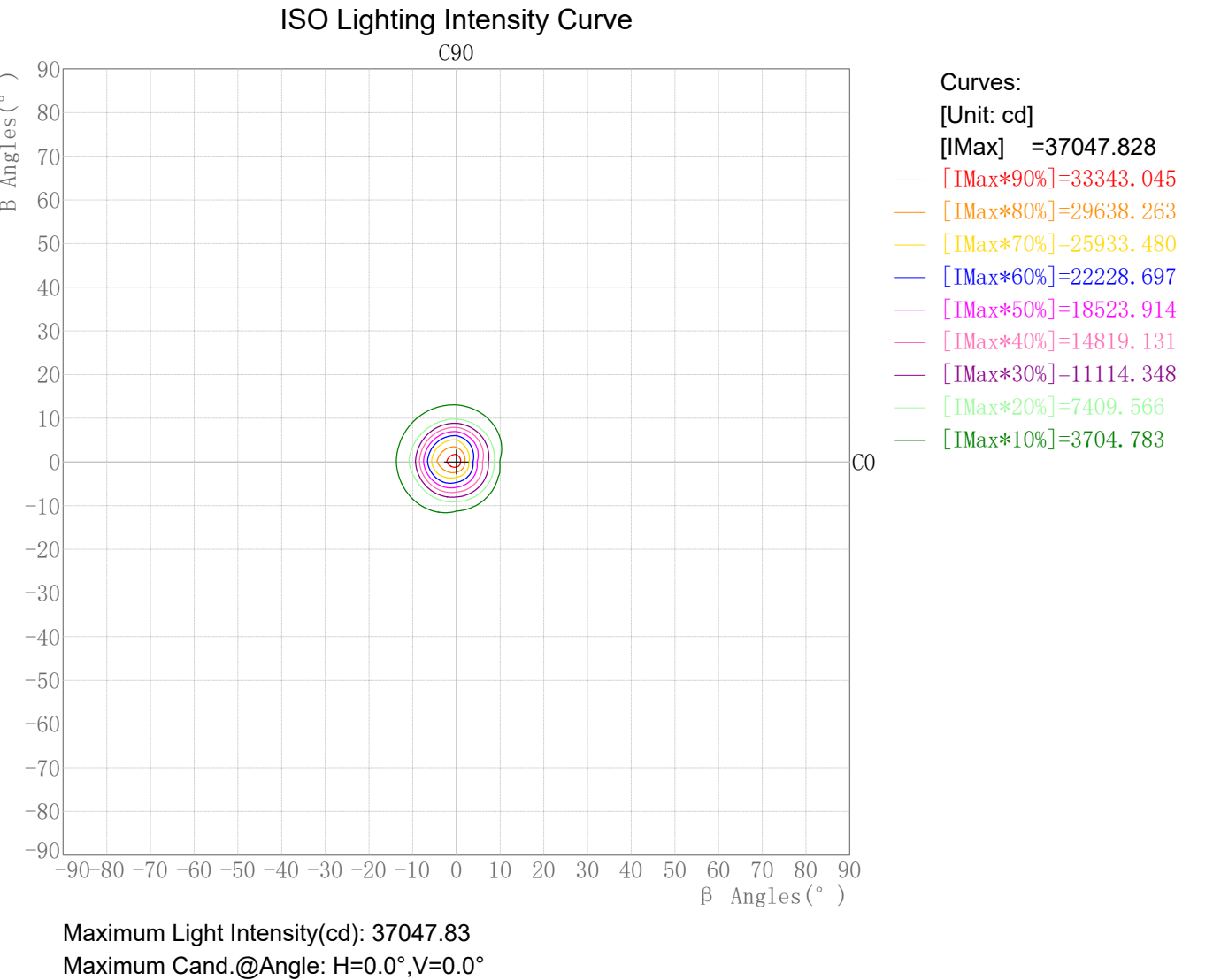


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	722.84	722.84	23.53	23.53
5.0-10.0	1045.47	1768.31	34.04	57.57
10.0-15.0	444.64	2212.94	14.48	72.04
15.0-20.0	212.92	2425.86	6.93	78.97
20.0-25.0	157.09	2582.96	5.11	84.09
25.0-30.0	126.42	2709.38	4.12	88.20
30.0-35.0	96.77	2806.15	3.15	91.35
35.0-40.0	68.90	2875.05	2.24	93.60
40.0-45.0	40.60	2915.66	1.32	94.92
45.0-50.0	22.61	2938.27	0.74	95.66
50.0-55.0	16.58	2954.85	0.54	96.20
55.0-60.0	12.70	2967.55	0.41	96.61
60.0-65.0	10.52	2978.07	0.34	96.95
65.0-70.0	8.94	2987.01	0.29	97.24
70.0-75.0	7.59	2994.61	0.25	97.49
75.0-80.0	6.55	3001.16	0.21	97.70
80.0-85.0	5.77	3006.92	0.19	97.89
85.0-90.0	5.05	3011.97	0.16	98.05
90.0-95.0	4.26	3016.23	0.14	98.19
95.0-100.0	3.58	3019.81	0.12	98.31
100.0-105.0	3.14	3022.95	0.10	98.41
105.0-110.0	2.93	3025.88	0.10	98.51
110.0-115.0	2.78	3028.66	0.09	98.60
115.0-120.0	2.62	3031.28	0.09	98.68
120.0-125.0	2.64	3033.92	0.09	98.77
125.0-130.0	2.71	3036.63	0.09	98.86
130.0-135.0	2.94	3039.57	0.10	98.95
135.0-140.0	3.65	3043.22	0.12	99.07
140.0-145.0	4.75	3047.96	0.15	99.23
145.0-150.0	5.50	3053.47	0.18	99.41
150.0-155.0	5.37	3058.84	0.17	99.58
155.0-160.0	4.60	3063.44	0.15	99.73
160.0-165.0	3.65	3067.09	0.12	99.85
165.0-170.0	2.65	3069.74	0.09	99.94
170.0-175.0	1.53	3071.27	0.05	99.99
175.0-180.0	0.46	3071.73	0.02	100.00

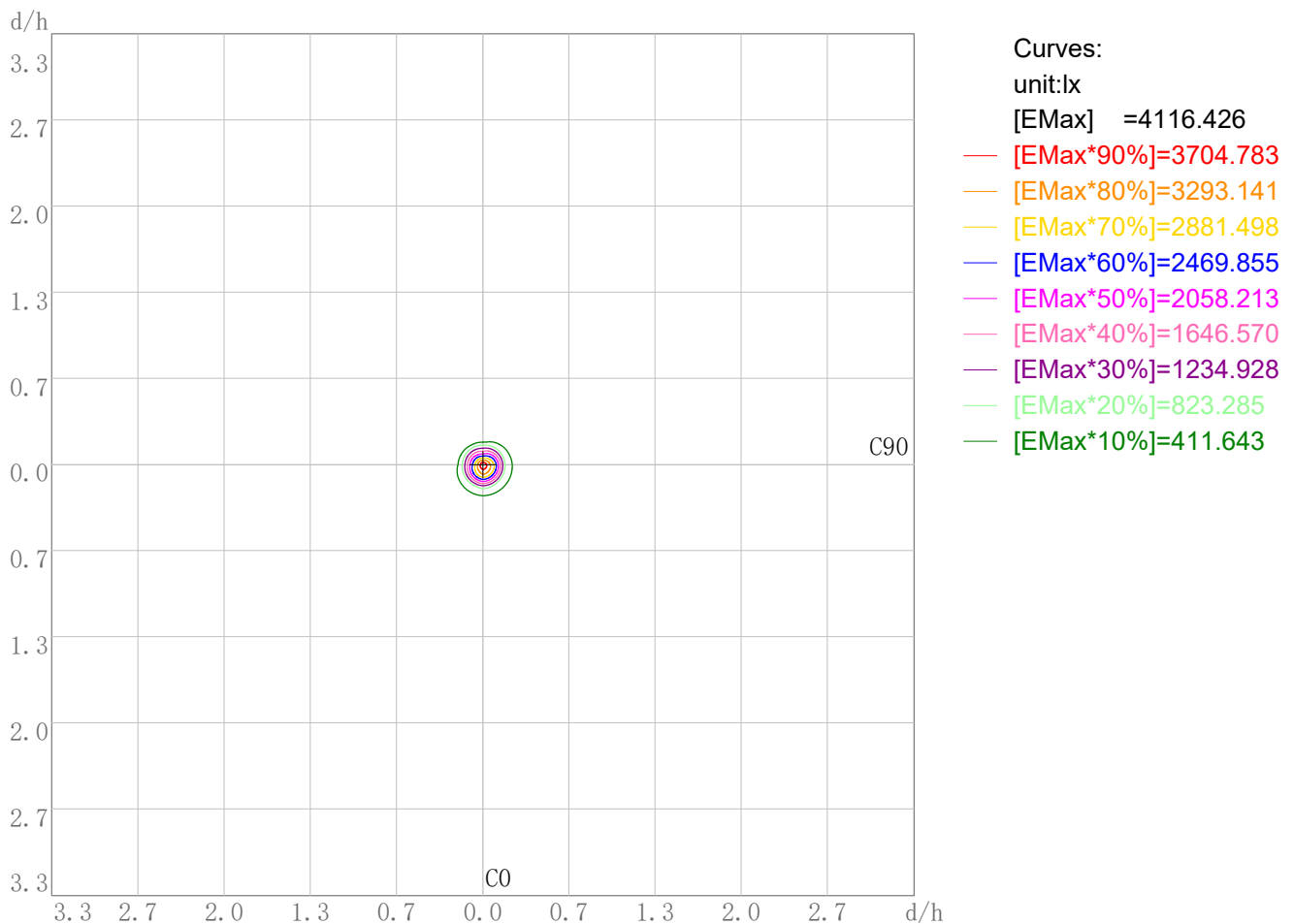
Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20



Photometric Filename:DL51-35-XX-01 3000K RA90 15D 电镀亮黑.IES

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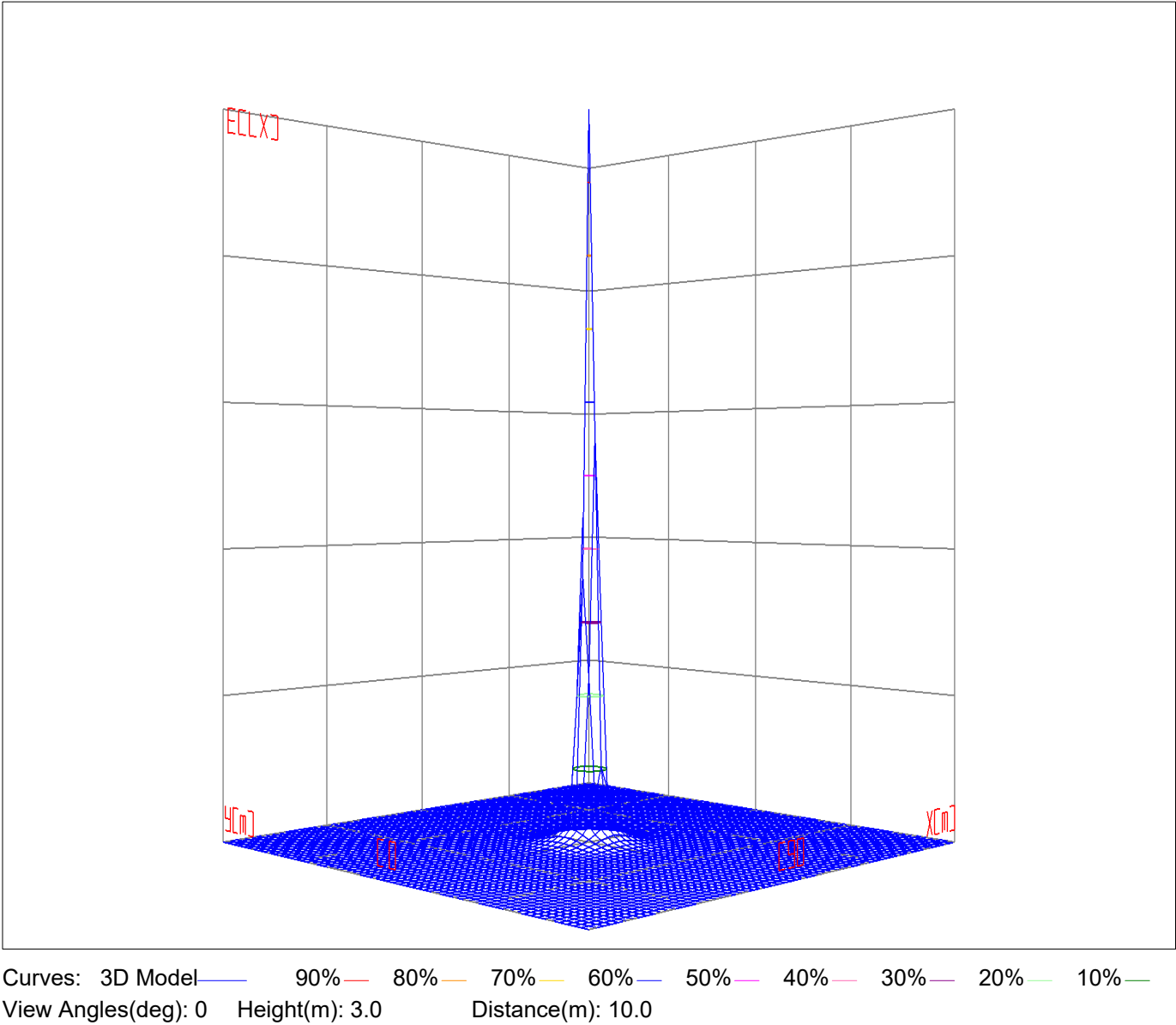


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 4116.43
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20

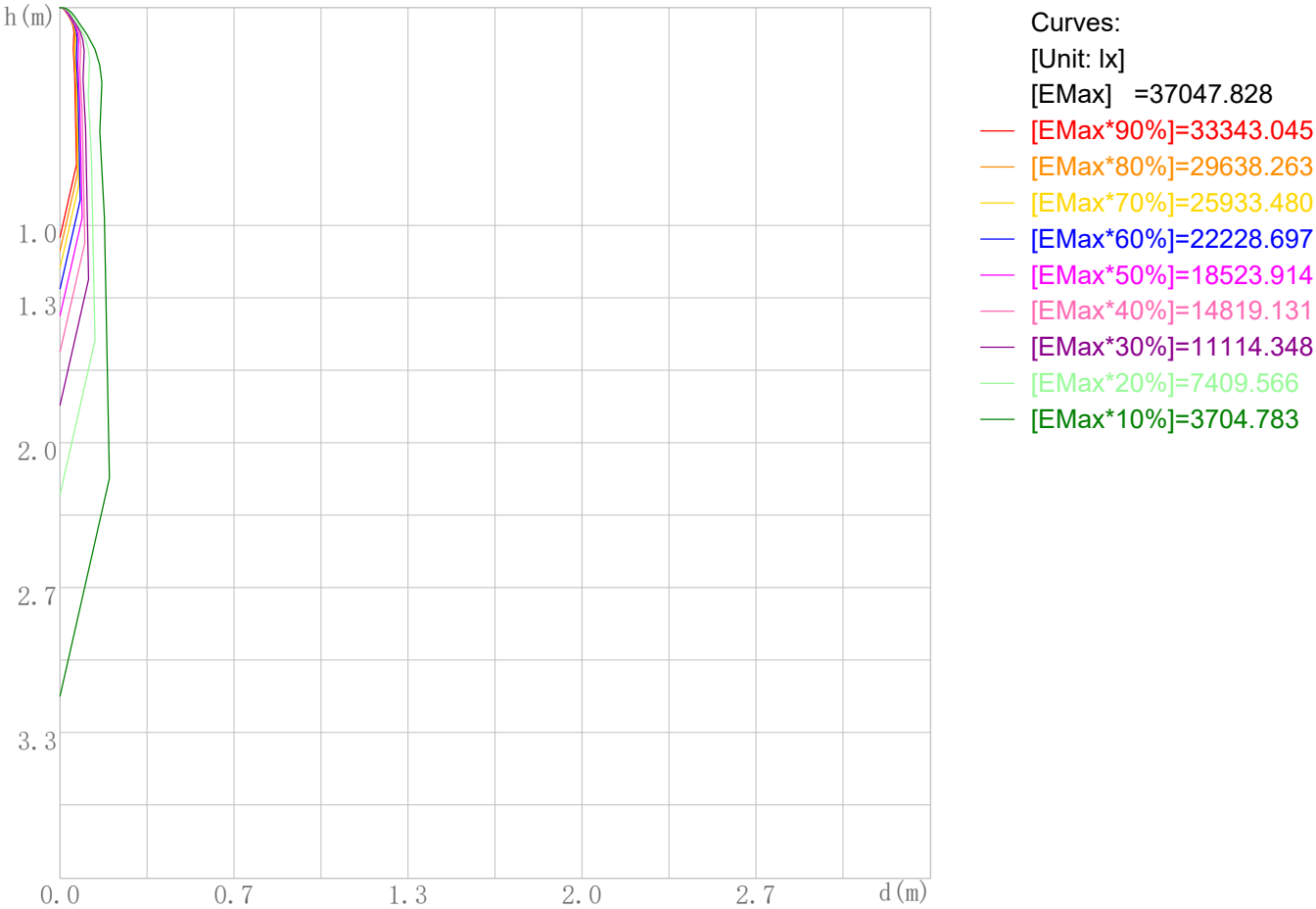
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20

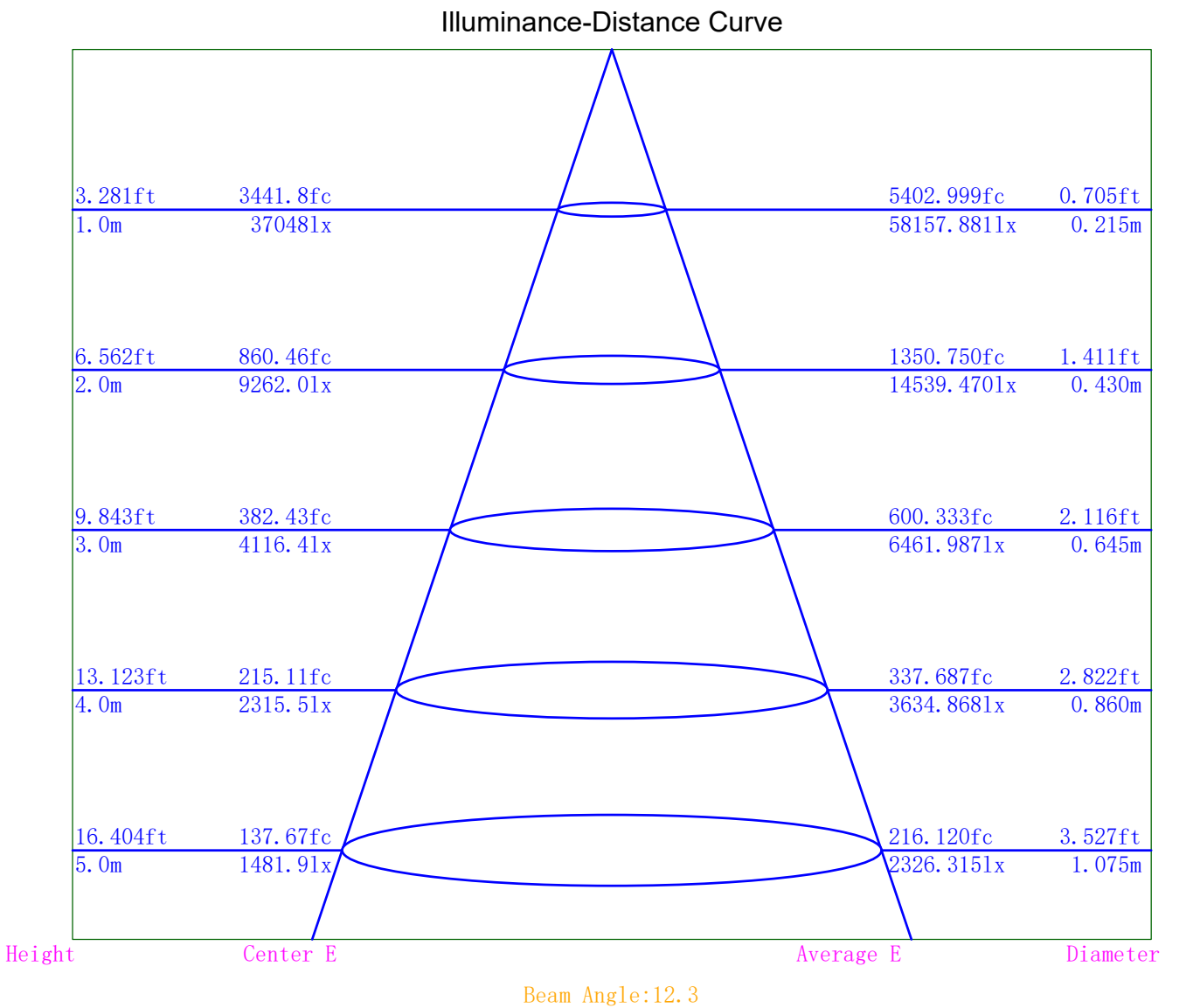
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:37047.83lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:37047.828cd,0eg

Illuminance-Distance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20



Indoor Luminance Limiting Curves

Lum. Name: DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20

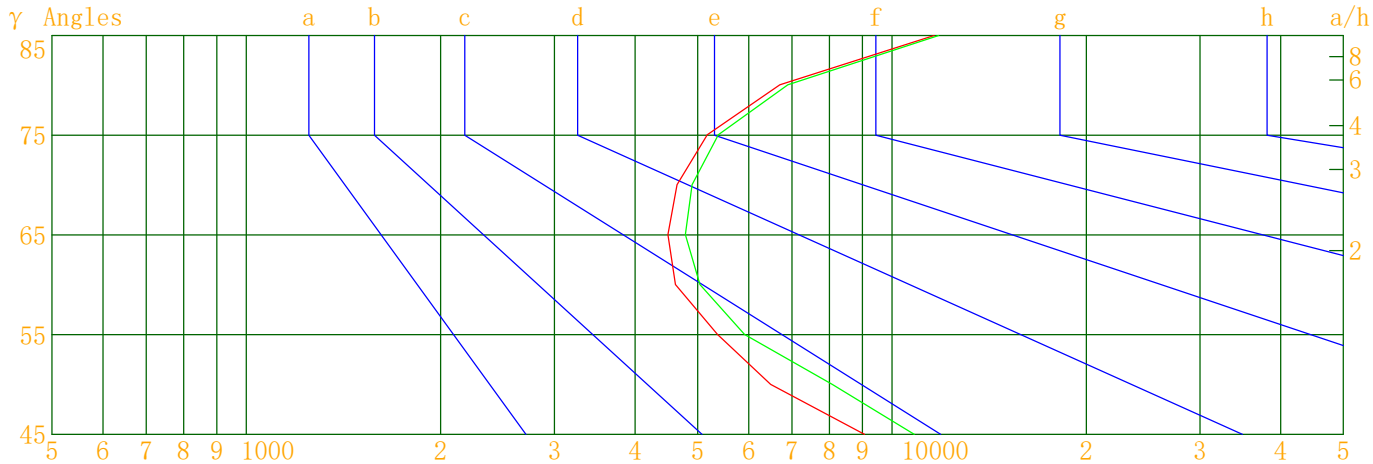
Glare Grade Table

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	9067	6487	5369	4620	4498	4645	5176	6704	11622
C90	10825	8081	5913	5041	4786	4904	5384	6895	11808

Luminance Limiting Curve



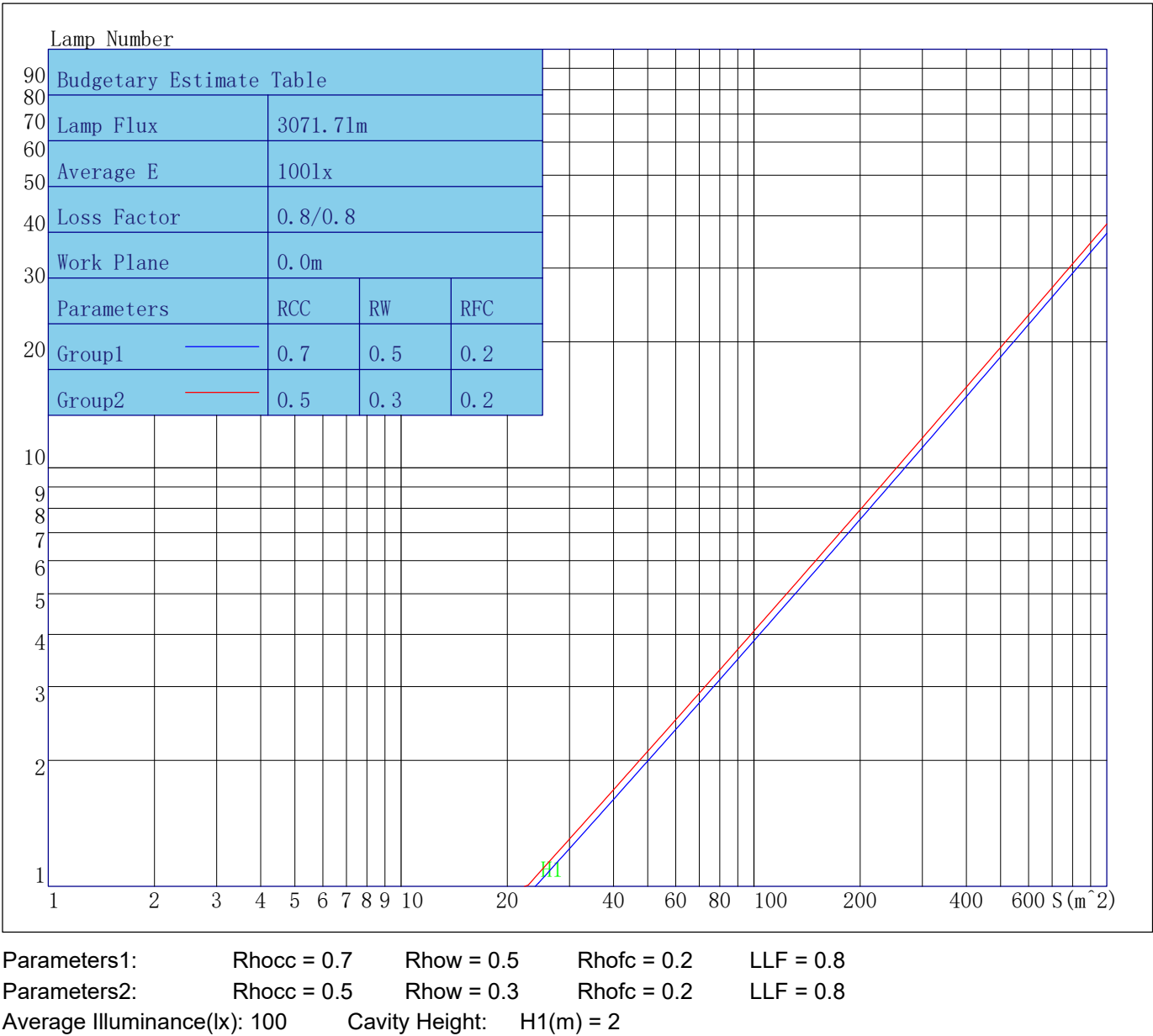
Luminous Size: Length(m)=-0.110 Width(m)=-0.110 Height(m)=0.000 Area(m^2)=0.009503

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/20



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/20

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	100	100	100	98
1	115	112	111	109	112	110	108	107	106	105	103	102	101	100	98	97	97	95
2	111	107	104	102	109	106	103	101	102	100	98	99	97	96	96	95	94	92
3	108	103	100	97	106	102	99	96	99	96	94	96	94	93	94	92	91	90
4	105	100	96	93	103	98	95	92	96	93	91	94	92	90	92	90	89	88
5	102	96	93	90	101	96	92	89	94	91	88	92	90	88	91	88	87	86
6	100	94	90	87	98	93	89	87	92	88	86	90	87	85	89	87	85	84
7	97	91	88	85	96	91	87	85	90	86	84	88	86	84	87	85	83	82
8	95	89	86	83	94	89	85	83	88	85	82	87	84	82	86	83	82	81
9	93	87	84	81	92	87	83	81	86	83	81	85	82	80	84	82	80	79
10	92	86	82	80	91	85	82	80	84	81	79	84	81	79	83	81	79	78

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 电镀亮黑	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/20

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	12.7	13.5	13.1	13.8	14.2	13.7	14.5	14.1	14.9	15.2
	13.1	13.8	13.5	14.2	14.6	14.0	14.7	14.4	15.1	15.5
	13.4	14.1	13.9	14.5	14.9	14.3	14.9	14.7	15.3	15.8
	13.9	14.5	14.4	14.9	15.4	14.7	15.3	15.1	15.7	16.1
	14.3	14.8	14.7	15.2	15.7	15.0	15.5	15.4	15.9	16.4
	14.7	15.2	15.2	15.6	16.1	15.3	15.8	15.8	16.3	16.7
X=4H Y=2H	12.7	13.3	13.1	13.7	14.2	13.6	14.3	14.1	14.7	15.1
	13.3	13.8	13.8	14.3	14.7	14.2	14.7	14.6	15.1	15.6
	13.8	14.3	14.3	14.7	15.2	14.6	15.0	15.1	15.5	16.0
	14.6	14.9	15.1	15.4	16.0	15.2	15.6	15.7	16.1	16.6
	15.0	15.4	15.6	15.9	16.4	15.6	15.9	16.1	16.4	17.0
	15.7	15.9	16.2	16.5	17.0	16.2	16.4	16.7	17.0	17.5
X=8H Y=4H	14.0	14.3	14.5	14.8	15.4	14.7	15.1	15.2	15.5	16.1
	15.0	15.2	15.6	15.8	16.3	15.6	15.8	16.1	16.4	16.9
	15.7	15.9	16.2	16.4	17.0	16.2	16.4	16.7	16.9	17.5
	16.5	16.7	17.1	17.2	17.9	17.0	17.1	17.5	17.6	18.3
X=12H Y=4H	14.0	14.3	14.6	14.8	15.4	14.7	15.0	15.3	15.5	16.1
	15.1	15.3	15.7	15.8	16.4	15.7	15.9	16.3	16.4	17.0
	15.9	16.1	16.5	16.6	17.2	16.4	16.5	16.9	17.1	17.7
Variations with the objerver position at spacings										
S=1.0H	0.1/-0.1					0.1/-0.1				
S=1.5H	0.2/-0.2					0.2/-0.2				
S=2.0H	0.1/-0.2					0.2/-0.2				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.7					2.4				

o 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	37047.8	37047.8	37047.8	37047.8
γ 5.0	17515.7	26203.2	28760.8	21188.7
γ 10.0	3587.9	6645.8	8537.8	4459.4
γ 15.0	1335.7	1849.1	2104.7	1462.1
γ 20.0	831.4	994.7	965.4	790.9
γ 25.0	586.6	695.5	613.8	513.1
γ 30.0	393.9	469.4	391.8	331.9
γ 35.0	246.8	301.8	263.0	230.1
γ 40.0	124.5	176.0	169.1	140.6
γ 45.0	60.9	72.7	72.3	61.1
γ 50.0	39.6	49.4	49.5	42.1
γ 55.0	29.3	32.2	33.2	29.7
γ 60.0	22.0	24.0	25.9	23.5
γ 65.0	18.1	19.2	21.0	19.5
γ 70.0	15.1	15.9	17.1	15.3
γ 75.0	12.7	13.2	14.0	12.7
γ 80.0	11.1	11.4	11.7	10.9
γ 85.0	9.6	9.8	10.6	9.8
γ 90.0	8.5	8.3	9.2	7.8
γ 95.0	7.6	7.6	7.3	5.8
γ 100.0	7.1	6.9	5.5	5.0
γ 105.0	6.5	5.9	5.1	5.0
γ 110.0	6.0	6.3	5.1	4.9
γ 115.0	5.4	5.5	5.2	5.5
γ 120.0	5.0	5.1	5.6	5.8
γ 125.0	5.8	5.3	6.4	6.8
γ 130.0	6.5	5.8	6.5	6.9
γ 135.0	8.3	6.9	8.2	8.9
γ 140.0	12.4	10.1	10.6	13.2
γ 145.0	17.8	15.7	15.7	18.3
γ 150.0	21.2	20.1	19.9	20.8
γ 155.0	22.6	21.3	22.4	21.4
γ 160.0	23.0	21.0	22.9	21.0
γ 165.0	23.1	21.7	23.0	21.3
γ 170.0	22.1	22.5	23.2	22.0
γ 175.0	19.1	20.5	21.2	20.3
γ 180.0	18.3	18.3	18.3	18.3