

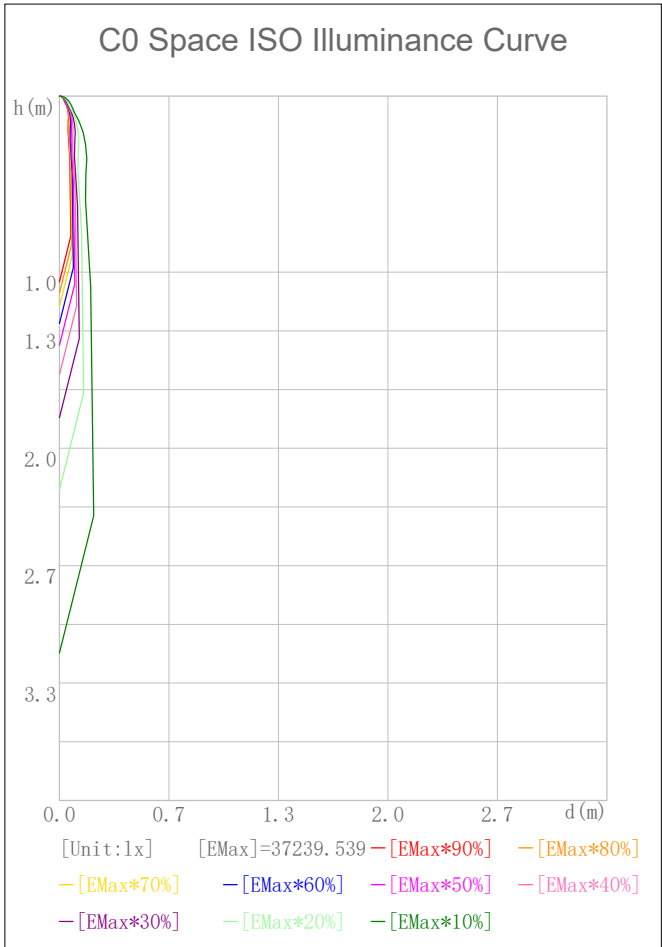
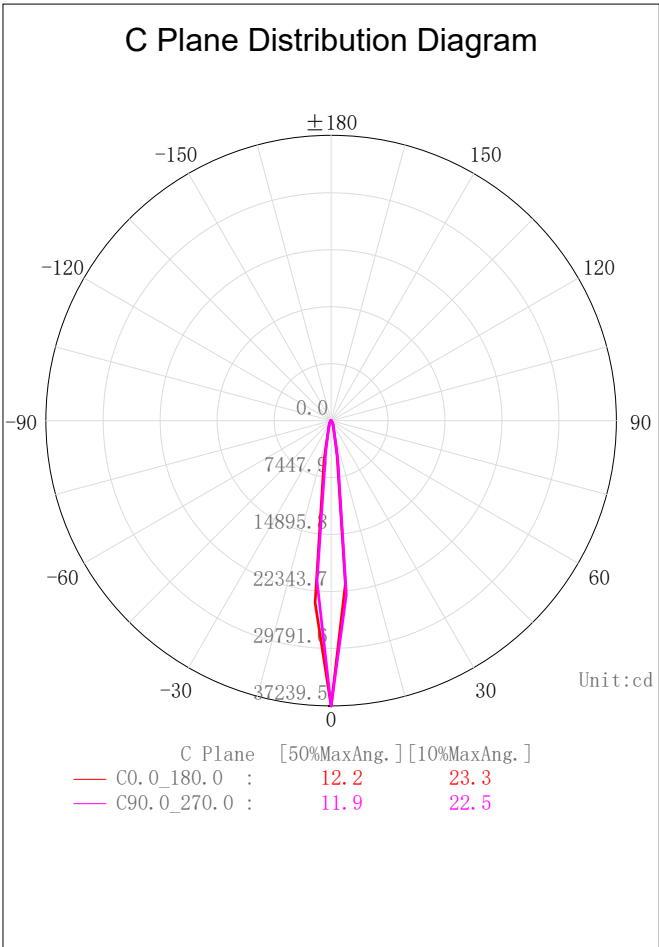
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 2700K RA90 15D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/05
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(%):

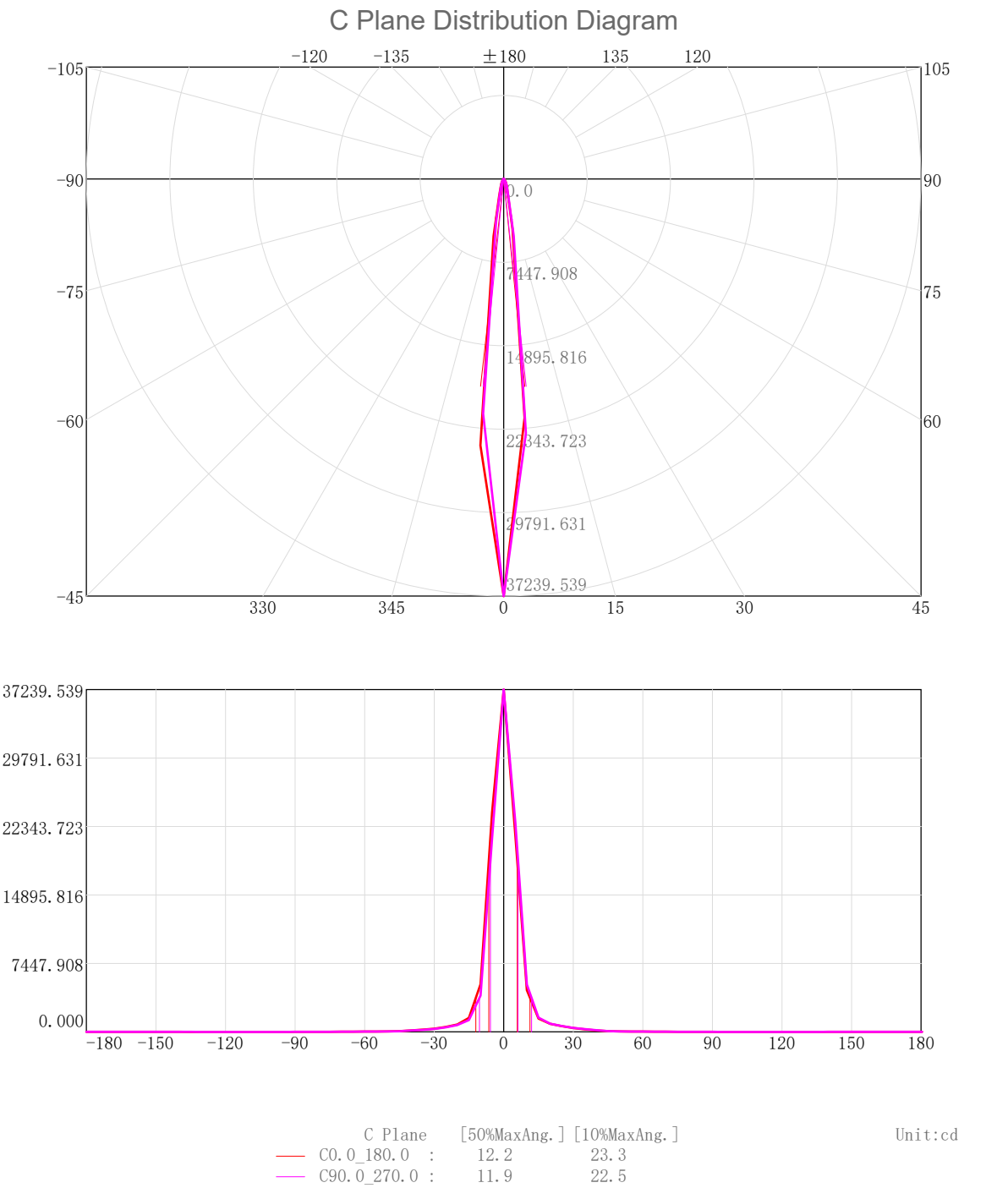
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2912.990	Luminary Flux(lm): 2912.991	Field Angle(10%Imax): 23.3(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2858.654lm 98.13%
Rated Voltage(V):	Luminary EER(lm/W): 86.542	Up Lumens&Percent: 54.337lm 1.87%
Tested Power(W): 33.660	Max. Candela(cd): 37239.539	S/MH: C0_a180=0.212 C90_270=0.206
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):240.1, 0.146	Beam Angle(50%Imax): 12.2(°)	ErP Φ use(90°): 2760.973lm
Lamp Size (W*L*H):0.110m*0.110m*0.000m	Left=-6.4°, Right=5.8°	IRF(%): 2593.781



2D Plane Light Intensity Distribution Curve

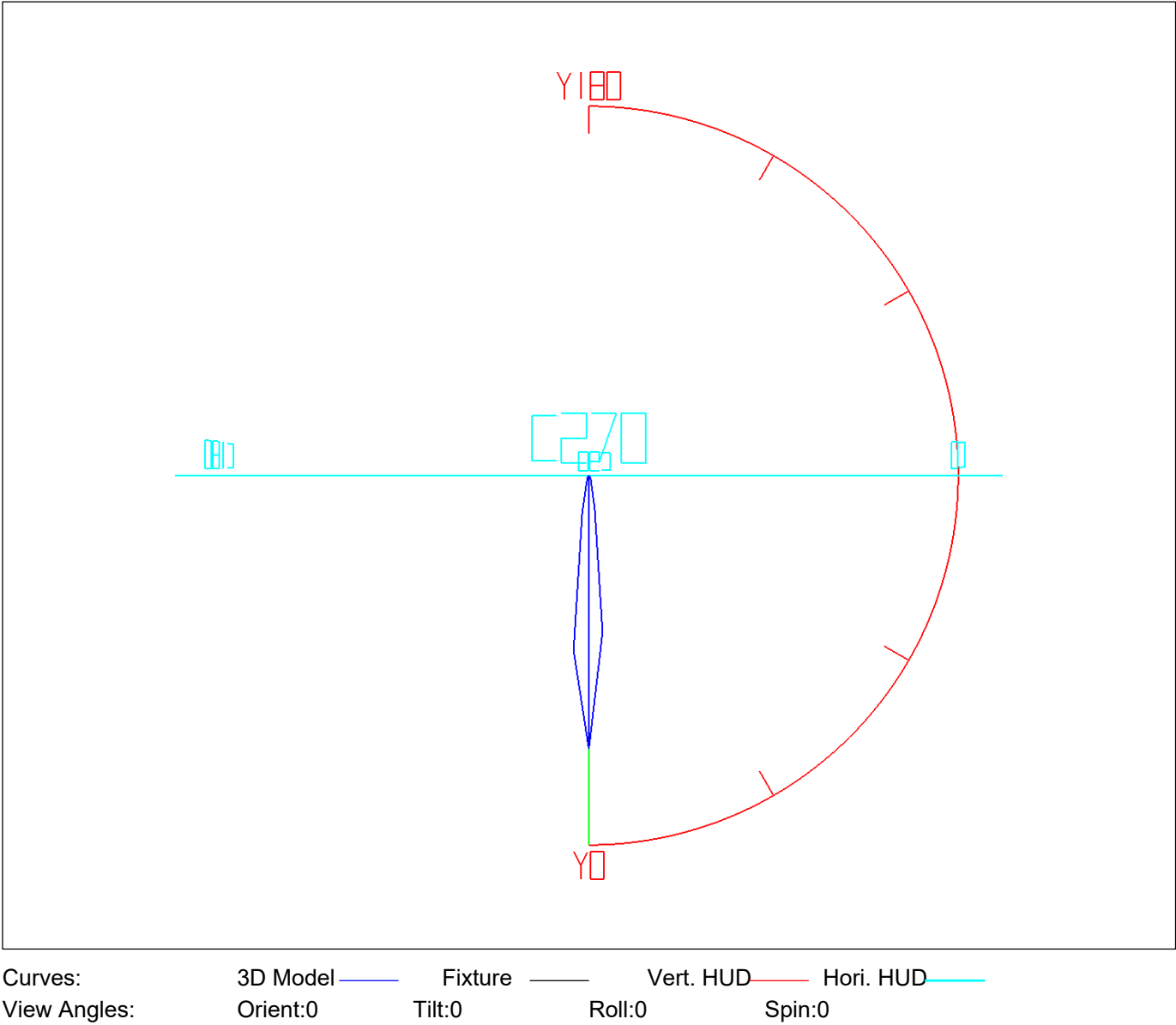
Lum. Name:DL51-35-XX-01 2700K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/05



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 2700K RA90 15D 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:2022/08/05

3D Light Intensity Distribution Modal

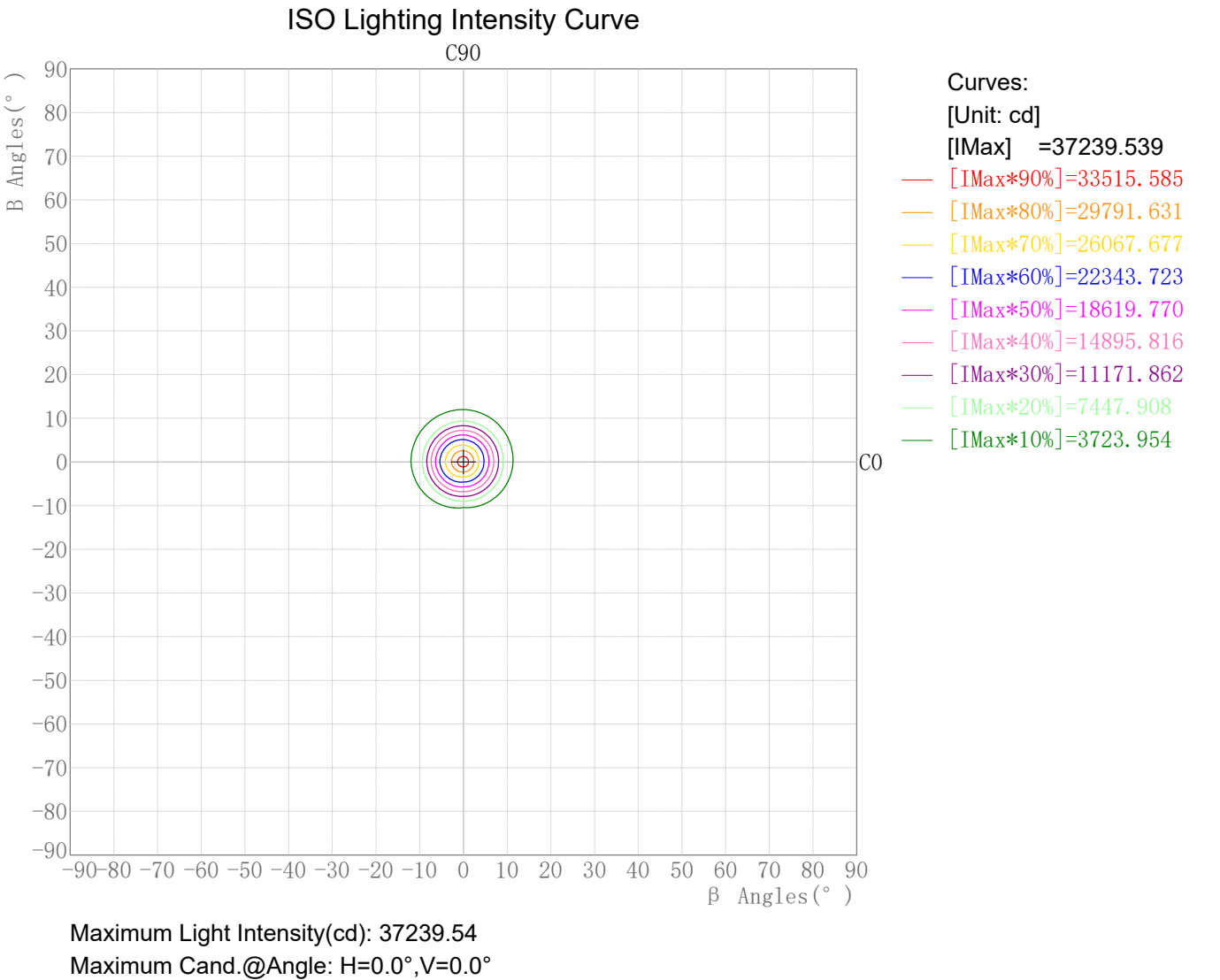


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	711.43	711.43	24.42	24.42
5.0-10.0	965.58	1677.01	33.15	57.57
10.0-15.0	366.68	2043.69	12.59	70.16
15.0-20.0	189.49	2233.17	6.50	76.66
20.0-25.0	148.65	2381.83	5.10	81.77
25.0-30.0	122.54	2504.36	4.21	85.97
30.0-35.0	96.59	2600.96	3.32	89.29
35.0-40.0	72.59	2673.55	2.49	91.78
40.0-45.0	46.60	2720.15	1.60	93.38
45.0-50.0	29.61	2749.76	1.02	94.40
50.0-55.0	24.33	2774.09	0.84	95.23
55.0-60.0	20.42	2794.51	0.70	95.93
60.0-65.0	17.33	2811.85	0.60	96.53
65.0-70.0	14.22	2826.07	0.49	97.02
70.0-75.0	11.38	2837.45	0.39	97.41
75.0-80.0	8.96	2846.41	0.31	97.71
80.0-85.0	7.00	2853.41	0.24	97.95
85.0-90.0	5.24	2858.65	0.18	98.13
90.0-95.0	3.94	2862.59	0.14	98.27
95.0-100.0	3.21	2865.79	0.11	98.38
100.0-105.0	2.81	2868.60	0.10	98.48
105.0-110.0	2.69	2871.29	0.09	98.57
110.0-115.0	2.55	2873.84	0.09	98.66
115.0-120.0	2.35	2876.19	0.08	98.74
120.0-125.0	2.31	2878.50	0.08	98.82
125.0-130.0	2.42	2880.92	0.08	98.90
130.0-135.0	2.66	2883.57	0.09	98.99
135.0-140.0	3.34	2886.91	0.11	99.10
140.0-145.0	4.41	2891.32	0.15	99.26
145.0-150.0	5.07	2896.39	0.17	99.43
150.0-155.0	4.91	2901.30	0.17	99.60
155.0-160.0	4.18	2905.48	0.14	99.74
160.0-165.0	3.30	2908.78	0.11	99.86
165.0-170.0	2.42	2911.20	0.08	99.94
170.0-175.0	1.38	2912.58	0.05	99.99
175.0-180.0	0.41	2912.99	0.01	100.00

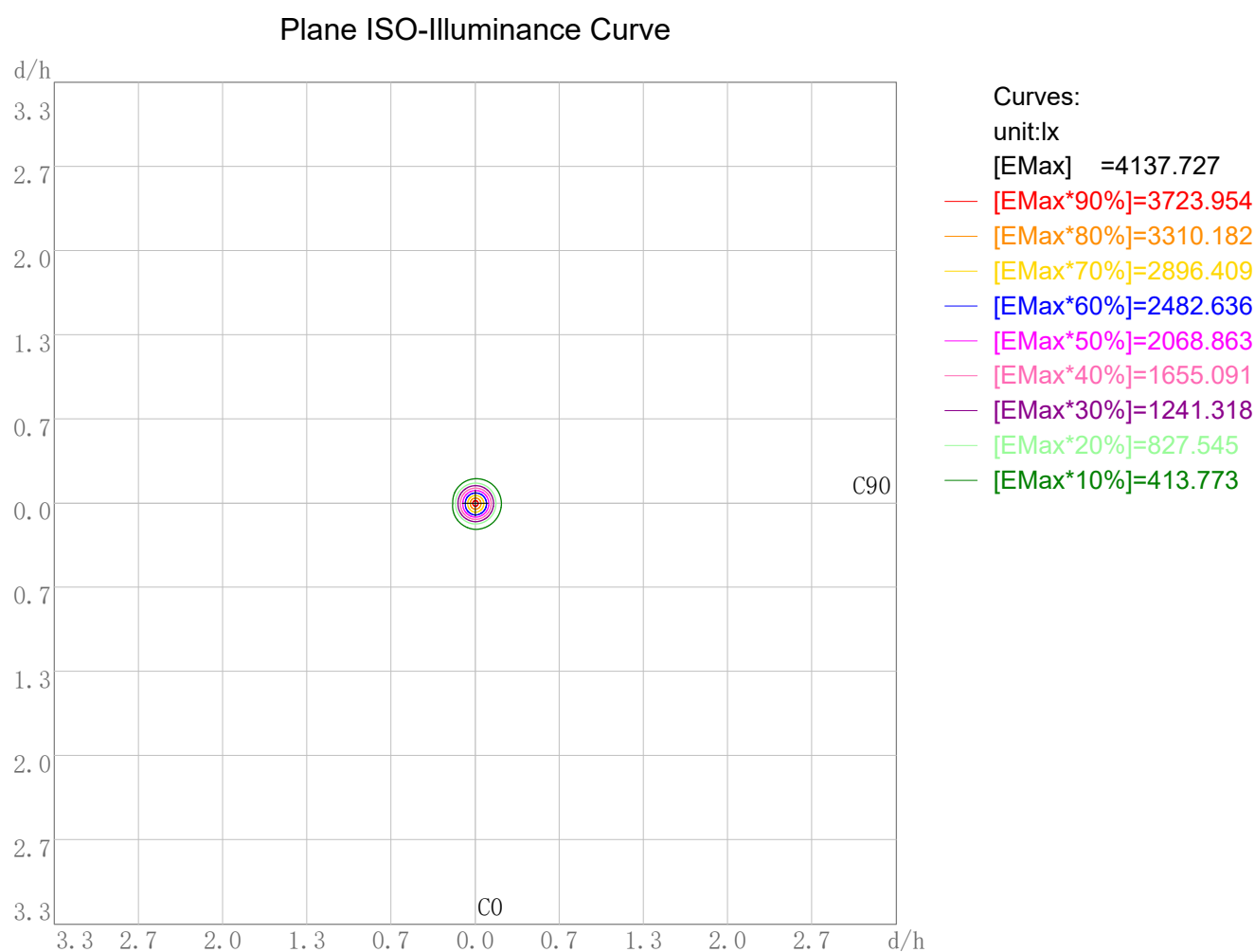
Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 15D 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: 2022/08/05



Photometric Filename:DL51-35-XX-01 2700K RA90 15D 白色.IES

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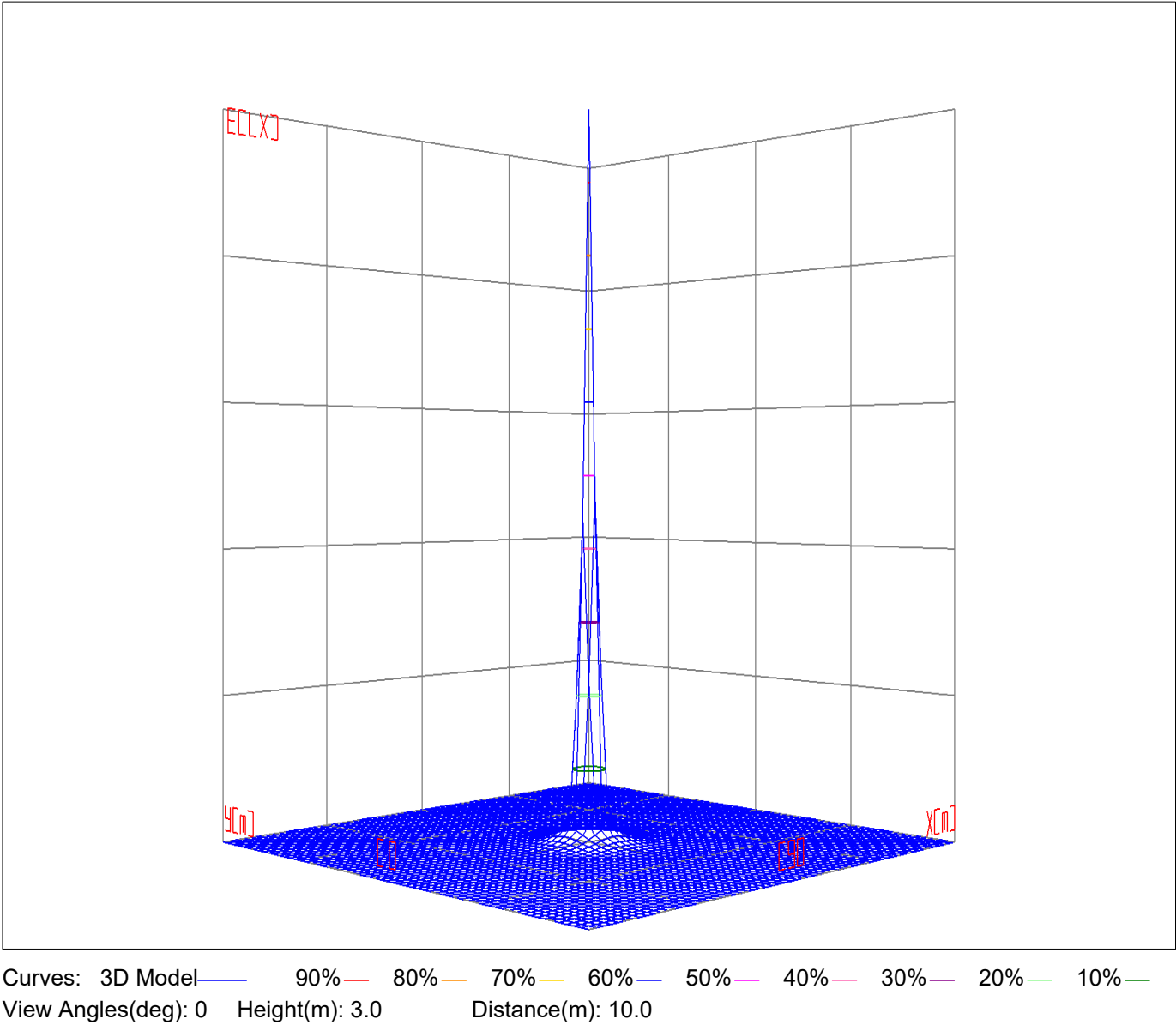


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 4137.73
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 15D 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: 2022/08/05

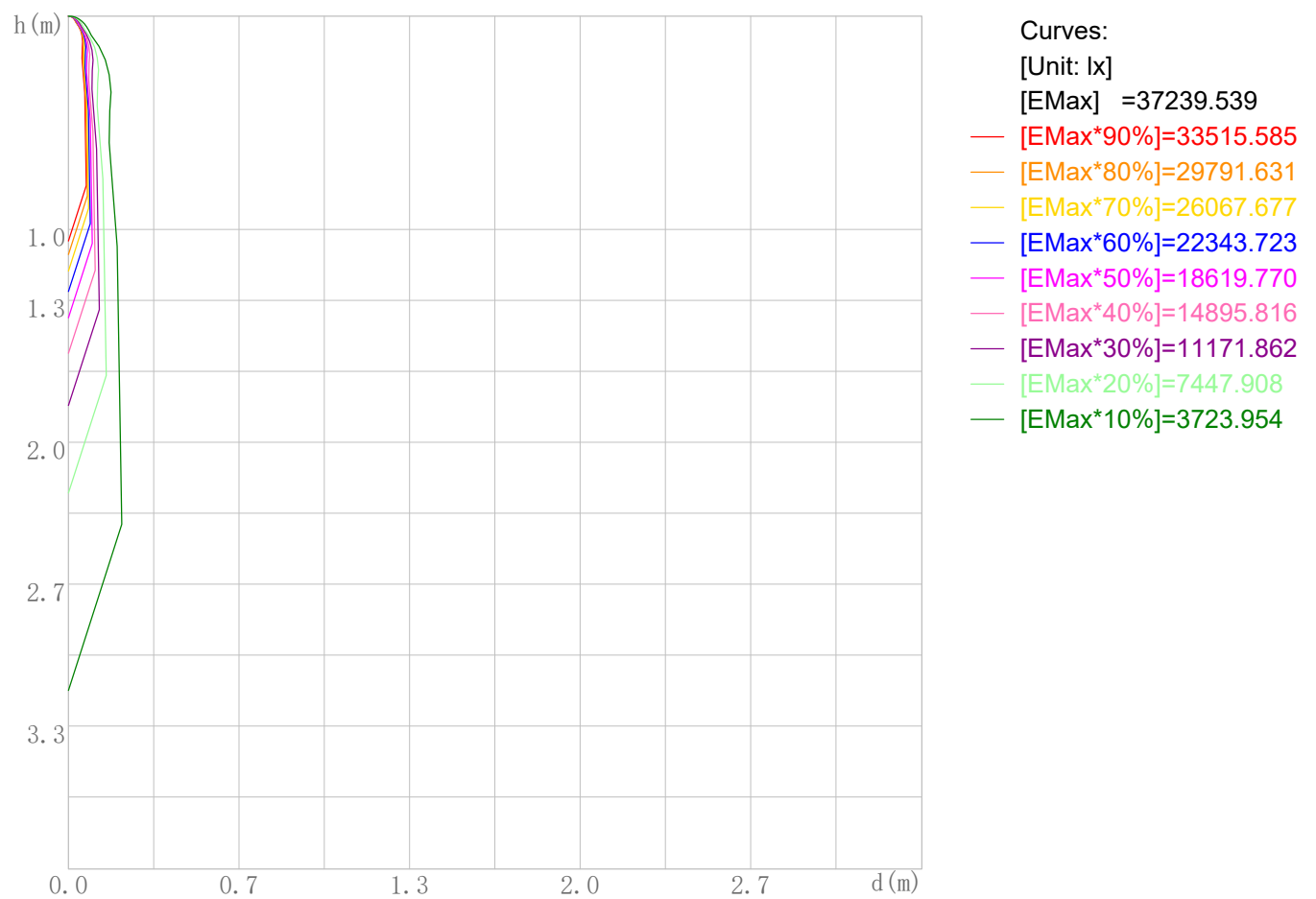
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 15D 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: 2022/08/05

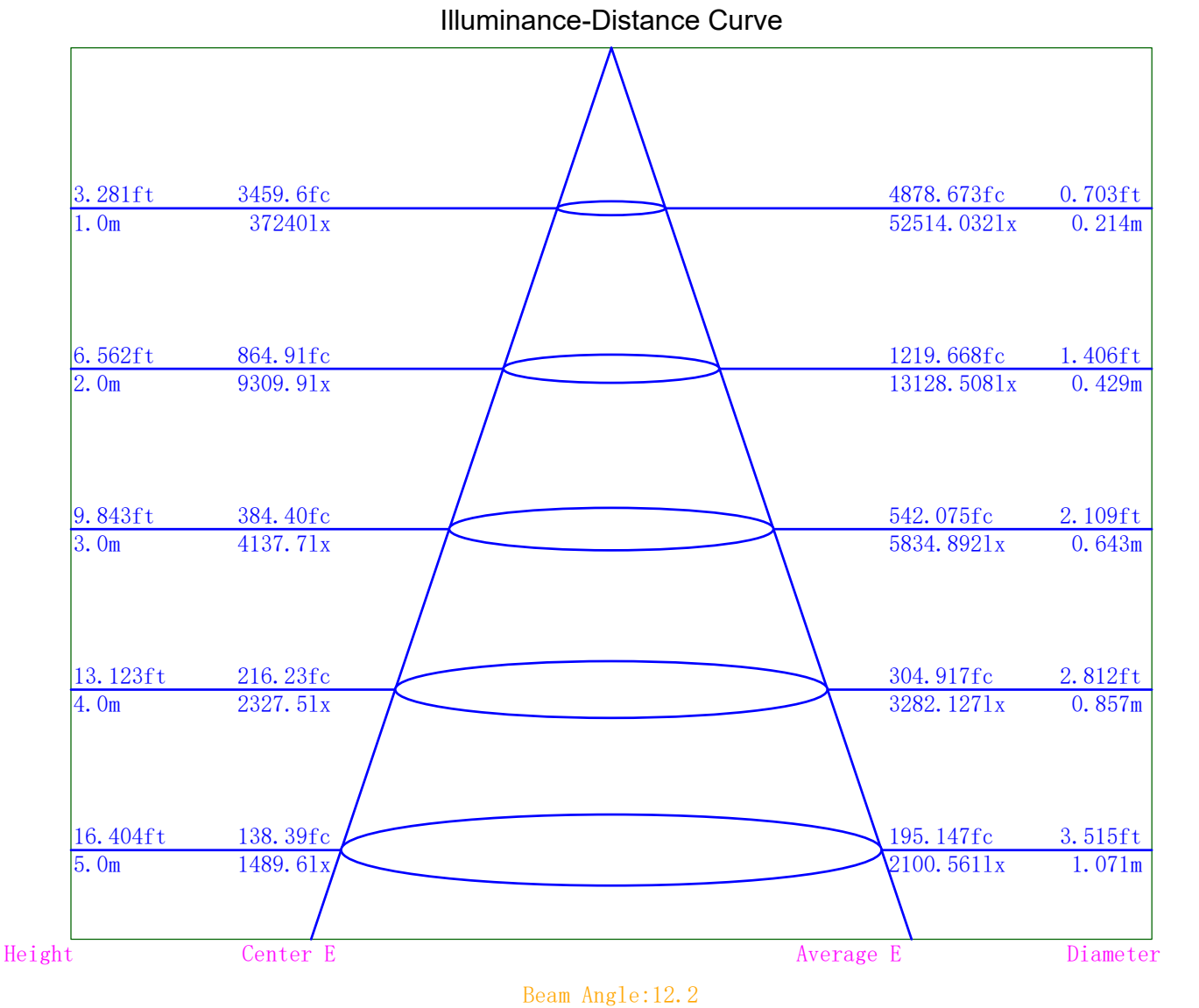
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:37239.54lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:37239.539cd,0deg

Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 15D 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:2022/08/05



Indoor Luminance Limiting Curves

Lum. Name:DL51-35-XX-01 2700K RA90 15D 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:2022/08/05

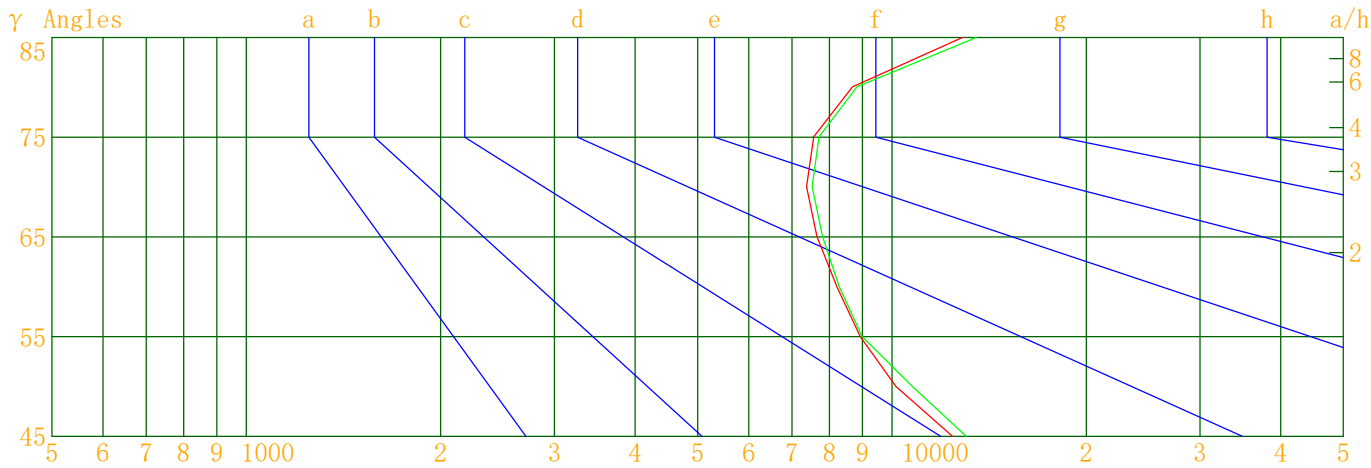
Glare Grade Table

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	12409	10138	8929	8213	7654	7375	7565	8685	12855
C90	13033	10756	8989	8286	7809	7521	7709	8827	13502

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

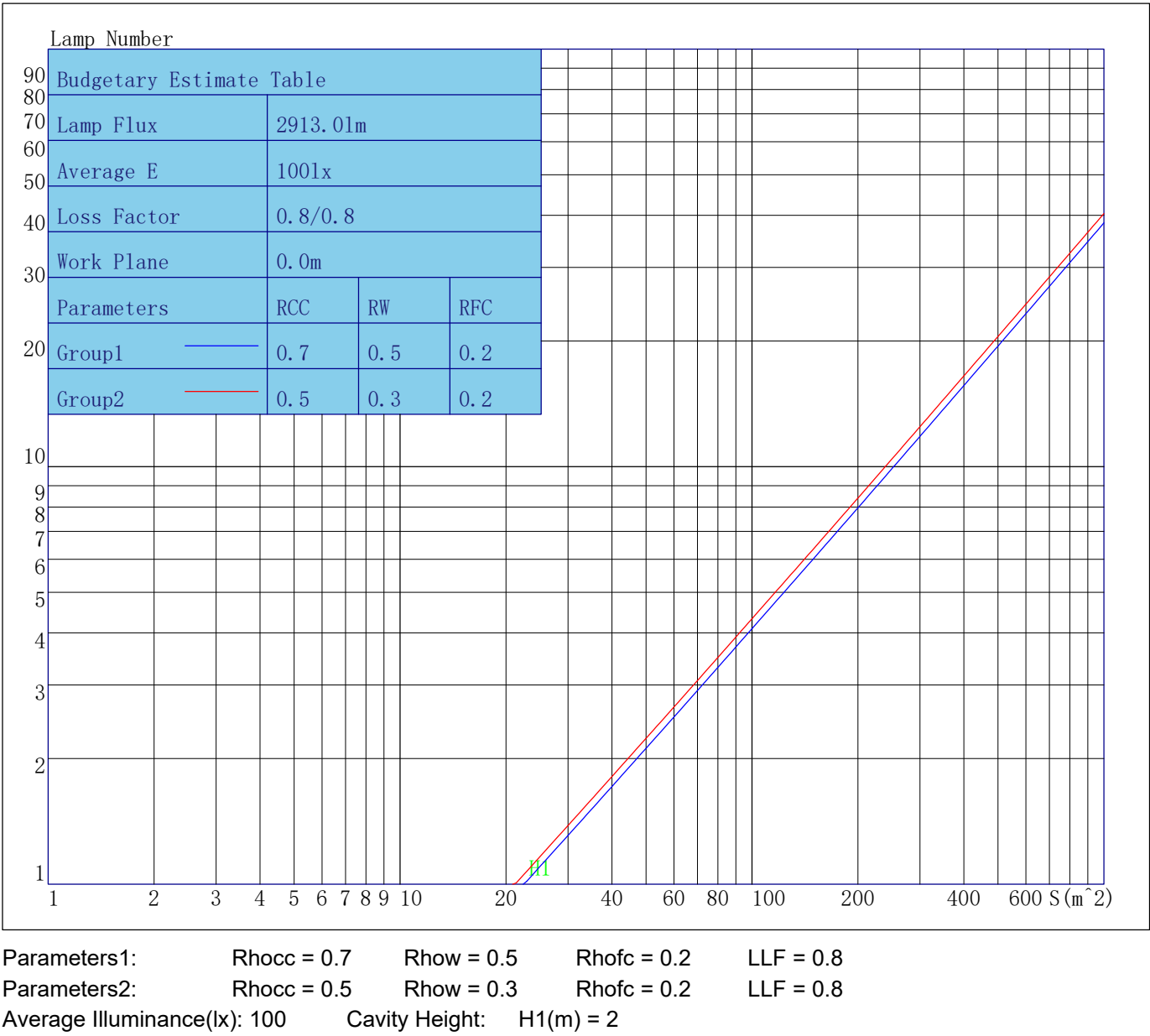
Luminous Curves:

C0-C180 Color: —

C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 2700K RA90 15D 白色	Lum. Catelog:	Test ID:01
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Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/05



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 2700K RA90 15D 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:2022/08/05

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	114	112	110	108	112	110	108	107	106	104	103	102	101	100	98	97	96	95
2	111	107	104	101	108	105	102	100	102	99	98	99	97	95	96	94	93	91
3	107	102	99	96	105	101	98	95	98	96	93	96	94	92	93	92	90	89
4	104	99	95	92	102	98	94	91	95	92	90	93	91	89	91	89	88	86
5	101	96	92	89	100	95	91	88	93	90	87	91	88	86	90	87	85	84
6	99	93	89	86	97	92	88	86	90	87	85	89	86	84	88	85	84	82
7	96	90	86	84	95	90	86	83	88	85	83	87	84	82	86	84	82	81
8	94	88	84	82	93	88	84	81	87	83	81	86	83	81	85	82	80	79
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	83	81	79	78
10	91	85	81	78	90	84	81	78	83	80	78	83	80	78	82	79	78	77

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 2700K RA90 15D 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:2022/08/05

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	14.7	15.6	15.1	16.0	16.3	14.9	15.9	15.3	16.2	16.6
	15.4	16.2	15.8	16.6	17.0	15.6	16.4	16.0	16.8	17.2
	15.8	16.6	16.3	17.0	17.4	16.0	16.8	16.5	17.2	17.6
	16.3	17.0	16.7	17.4	17.8	16.5	17.1	16.9	17.6	18.0
	16.5	17.2	17.0	17.6	18.1	16.7	17.4	17.2	17.8	18.2
	16.8	17.4	17.3	17.9	18.3	17.0	17.6	17.5	18.0	18.5
X=4H Y=2H	14.9	15.6	15.3	16.0	16.4	15.1	15.8	15.5	16.2	16.7
	15.8	16.4	16.3	16.9	17.3	16.0	16.6	16.5	17.1	17.5
	16.4	16.9	16.9	17.4	17.9	16.6	17.1	17.0	17.6	18.1
	17.0	17.5	17.5	18.0	18.5	17.2	17.7	17.7	18.1	18.7
	17.4	17.8	17.9	18.3	18.8	17.5	18.0	18.1	18.5	19.0
	17.8	18.2	18.3	18.7	19.2	18.0	18.3	18.5	18.9	19.4
X=8H Y=4H	16.6	17.0	17.1	17.5	18.0	16.7	17.2	17.3	17.7	18.2
	17.4	17.7	18.0	18.3	18.8	17.6	17.9	18.1	18.5	19.0
	17.9	18.2	18.5	18.8	19.3	18.1	18.4	18.7	18.9	19.5
	18.5	18.8	19.1	19.3	19.9	18.7	19.0	19.3	19.5	20.1
X=12H Y=4H	16.6	16.9	17.1	17.5	18.0	16.8	17.1	17.3	17.6	18.2
	17.5	17.8	18.1	18.3	18.9	17.7	18.0	18.2	18.5	19.1
	18.1	18.3	18.7	18.9	19.5	18.3	18.5	18.8	19.0	19.7
Variations with the objverver position at spacings										
S=1.0H	0.2/-0.2					0.2/-0.2				
S=1.5H	0.4/-0.4					0.4/-0.4				
S=2.0H	0.5/-0.5					0.4/-0.5				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.6					2.6				

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	37239.5	37239.5	37239.5	37239.5
γ 5.0	21395.3	22783.5	23871.0	21034.7
γ 10.0	4547.3	5168.2	5203.2	3963.5
γ 15.0	1455.0	1566.8	1528.7	1293.0
γ 20.0	880.6	903.7	811.2	757.9
γ 25.0	636.4	643.1	537.7	498.9
γ 30.0	433.8	444.6	355.4	323.3
γ 35.0	286.4	303.4	252.1	224.9
γ 40.0	167.5	184.7	166.6	154.8
γ 45.0	83.4	87.6	82.9	79.3
γ 50.0	61.9	65.7	64.1	61.3
γ 55.0	48.7	49.0	48.9	48.0
γ 60.0	39.0	39.4	40.7	39.7
γ 65.0	30.7	31.4	32.7	31.5
γ 70.0	24.0	24.4	25.5	24.4
γ 75.0	18.6	19.0	19.6	18.6
γ 80.0	14.3	14.6	15.0	14.3
γ 85.0	10.6	11.2	11.8	11.2
γ 90.0	7.9	7.8	8.4	7.7
γ 95.0	7.1	6.9	6.3	5.4
γ 100.0	6.2	6.3	4.7	4.3
γ 105.0	5.7	5.8	4.6	4.3
γ 110.0	5.3	5.8	4.9	4.7
γ 115.0	4.8	5.3	4.7	4.9
γ 120.0	4.2	4.3	5.2	5.1
γ 125.0	4.9	4.6	5.9	5.6
γ 130.0	5.5	5.3	6.3	6.5
γ 135.0	7.0	6.4	7.3	8.2
γ 140.0	10.3	9.7	11.0	12.2
γ 145.0	15.0	14.8	15.6	17.2
γ 150.0	18.6	18.2	19.1	19.4
γ 155.0	19.8	19.8	20.5	19.7
γ 160.0	20.4	19.1	21.2	18.7
γ 165.0	20.8	19.7	21.0	19.4
γ 170.0	20.3	20.8	20.6	20.4
γ 175.0	17.3	18.6	18.3	18.5
γ 180.0	16.1	16.1	16.1	16.1