

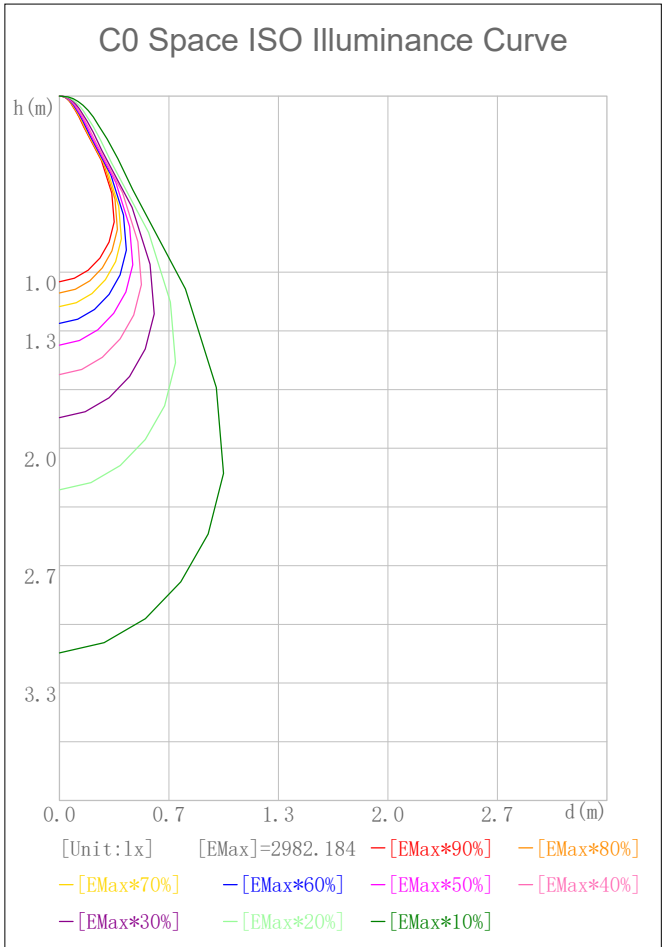
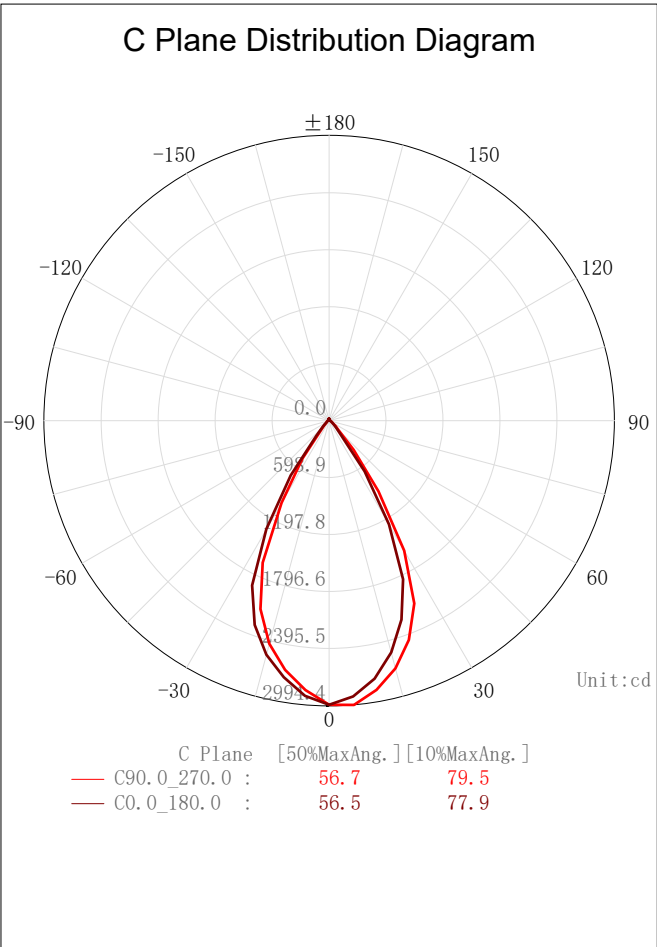
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 2700K RA90 60D 金色		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(%):

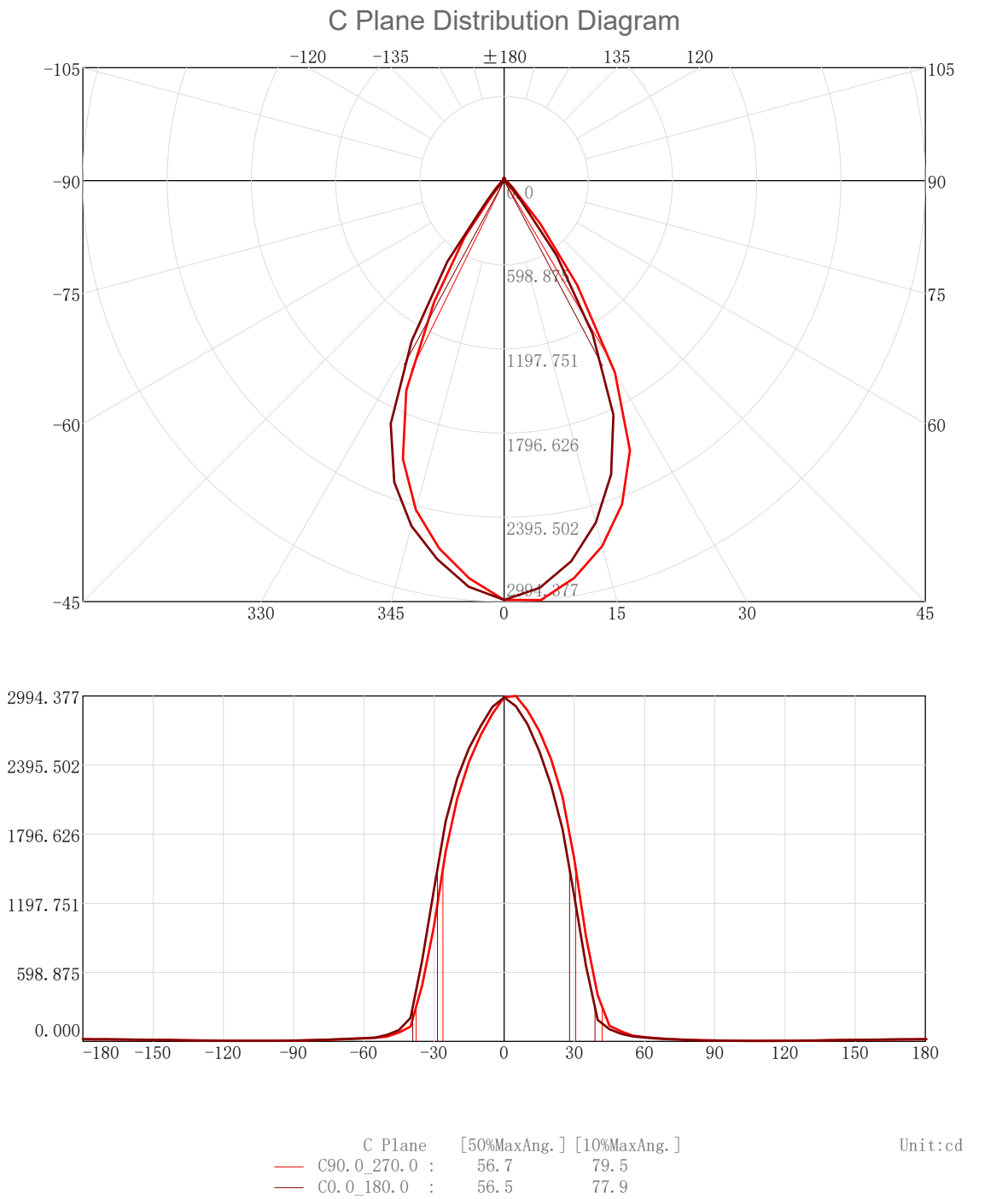
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2506.230	Luminary Flux(lm): 2506.227	Field Angle(10%Imax): 79.5(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2450.908lm 97.79%	
Rated Voltage(V):	Luminary EER(lm/W): 74.435	Up Lumens&Percent: 55.318lm 2.21%	
Tested Power(W): 33.670	Max. Candela(cd): 2994.377	S/MH: C0_a180=0.890 C90_270=0.896	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.9, 0.146	Beam Angle(50%Imax): 56.7(°)	ErP Φ use(90°): 2381.838lm	
Lamp Size (W*L*H):0.110m*0.110m*0.000m	Left=-26.1°, Right=30.6°	IRF(%): 265.250	



2D Plane Light Intensity Distribution Curve

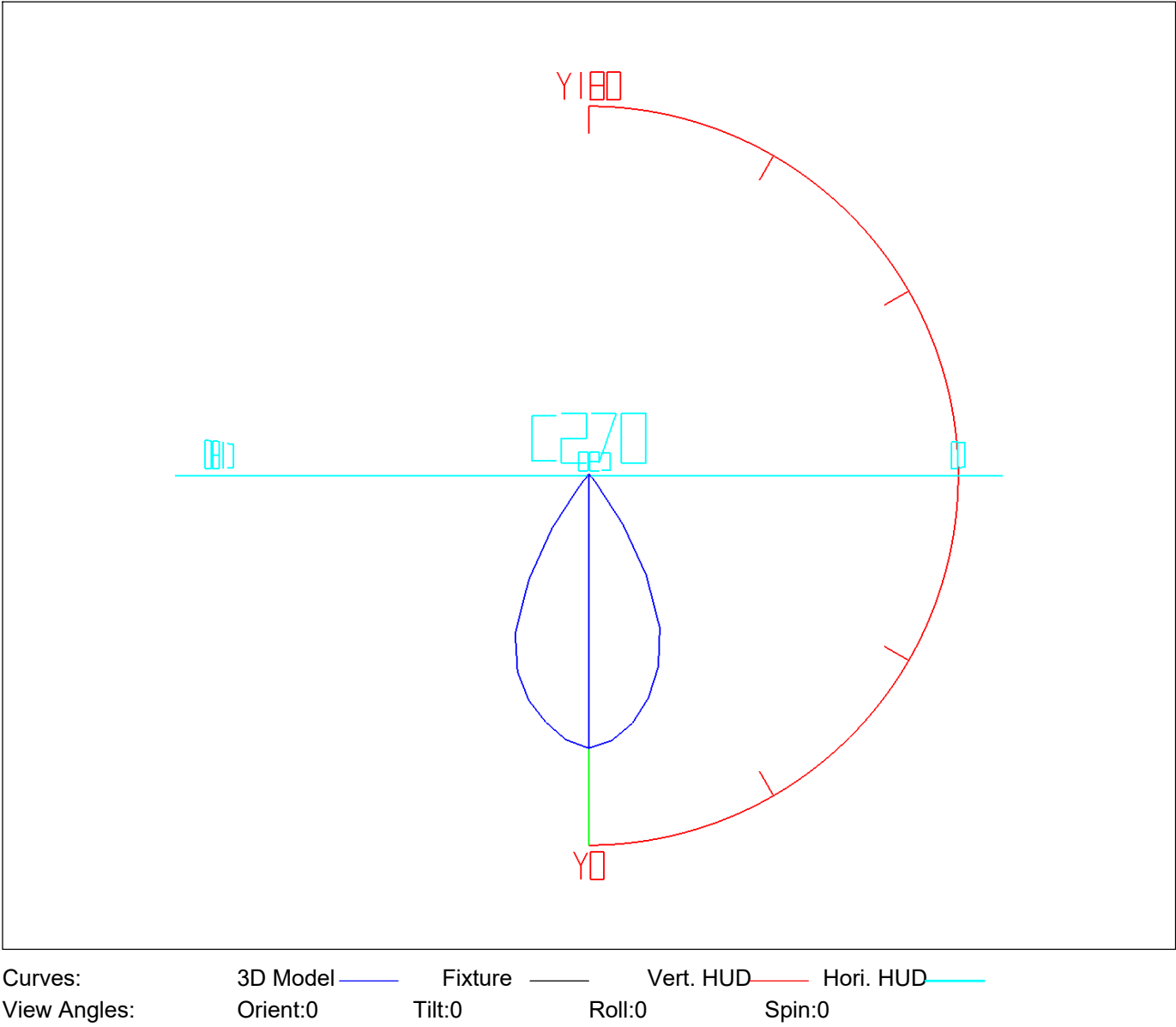
Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/05



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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

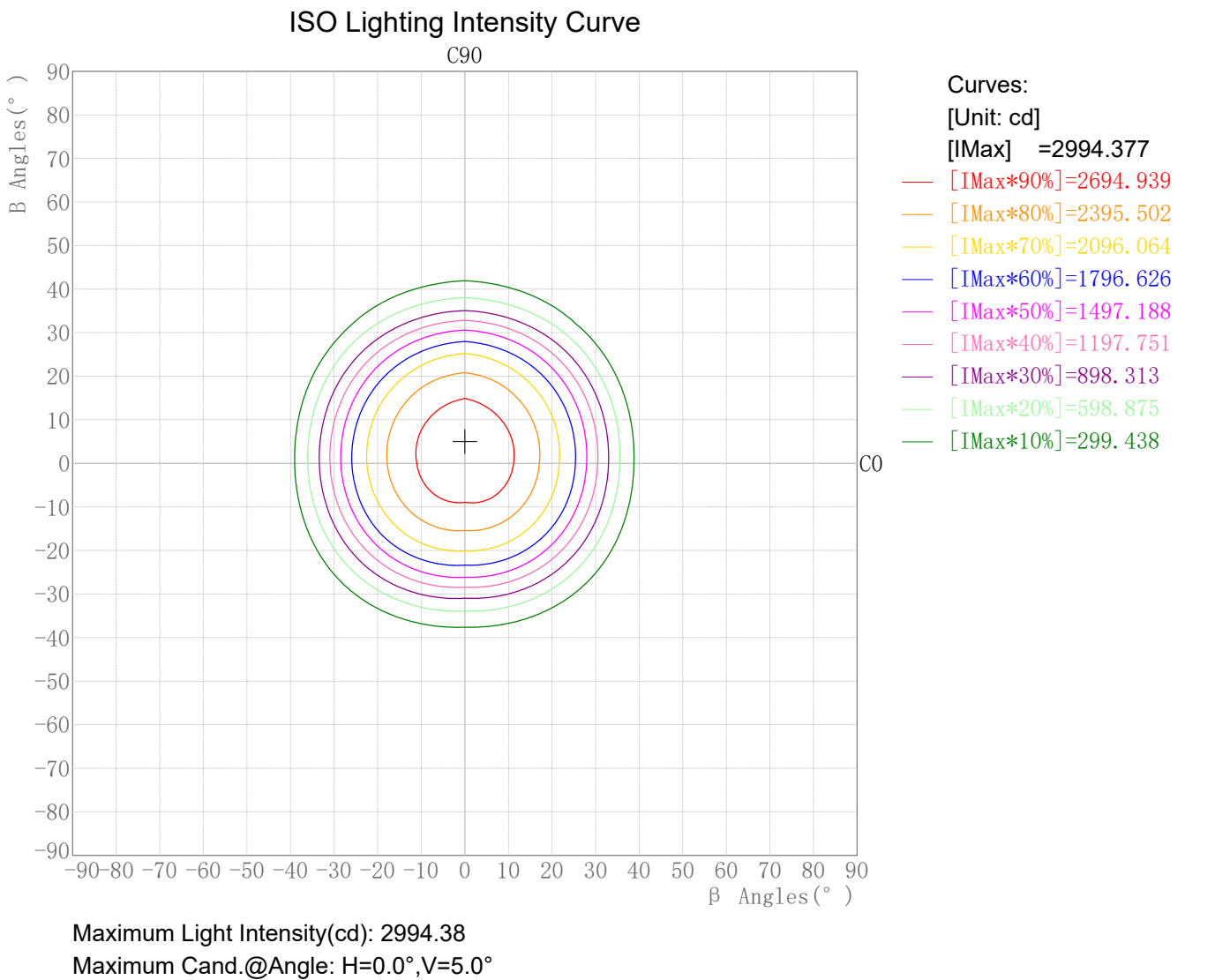


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	70.43	70.43	2.81	2.81
5.0-10.0	202.53	272.97	8.08	10.89
10.0-15.0	314.15	587.12	12.53	23.43
15.0-20.0	396.32	983.44	15.81	39.24
20.0-25.0	434.41	1417.85	17.33	56.57
25.0-30.0	400.23	1818.08	15.97	72.54
30.0-35.0	290.37	2108.45	11.59	84.13
35.0-40.0	152.94	2261.39	6.10	90.23
40.0-45.0	62.01	2323.40	2.47	92.70
45.0-50.0	33.99	2357.39	1.36	94.06
50.0-55.0	22.65	2380.04	0.90	94.96
55.0-60.0	16.67	2396.70	0.67	95.63
60.0-65.0	13.97	2410.67	0.56	96.19
65.0-70.0	11.69	2422.36	0.47	96.65
70.0-75.0	9.60	2431.96	0.38	97.04
75.0-80.0	7.77	2439.73	0.31	97.35
80.0-85.0	6.21	2445.95	0.25	97.59
85.0-90.0	4.96	2450.91	0.20	97.79
90.0-95.0	4.07	2454.98	0.16	97.95
95.0-100.0	3.50	2458.47	0.14	98.09
100.0-105.0	3.14	2461.61	0.13	98.22
105.0-110.0	2.93	2464.54	0.12	98.34
110.0-115.0	2.86	2467.39	0.11	98.45
115.0-120.0	2.93	2470.32	0.12	98.57
120.0-125.0	3.14	2473.46	0.13	98.69
125.0-130.0	3.42	2476.88	0.14	98.83
130.0-135.0	3.70	2480.58	0.15	98.98
135.0-140.0	3.92	2484.50	0.16	99.13
140.0-145.0	4.01	2488.51	0.16	99.29
145.0-150.0	3.96	2492.47	0.16	99.45
150.0-155.0	3.71	2496.18	0.15	99.60
155.0-160.0	3.31	2499.49	0.13	99.73
160.0-165.0	2.79	2502.28	0.11	99.84
165.0-170.0	2.13	2504.41	0.09	99.93
170.0-175.0	1.35	2505.76	0.05	99.98
175.0-180.0	0.47	2506.23	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 60D 金色	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

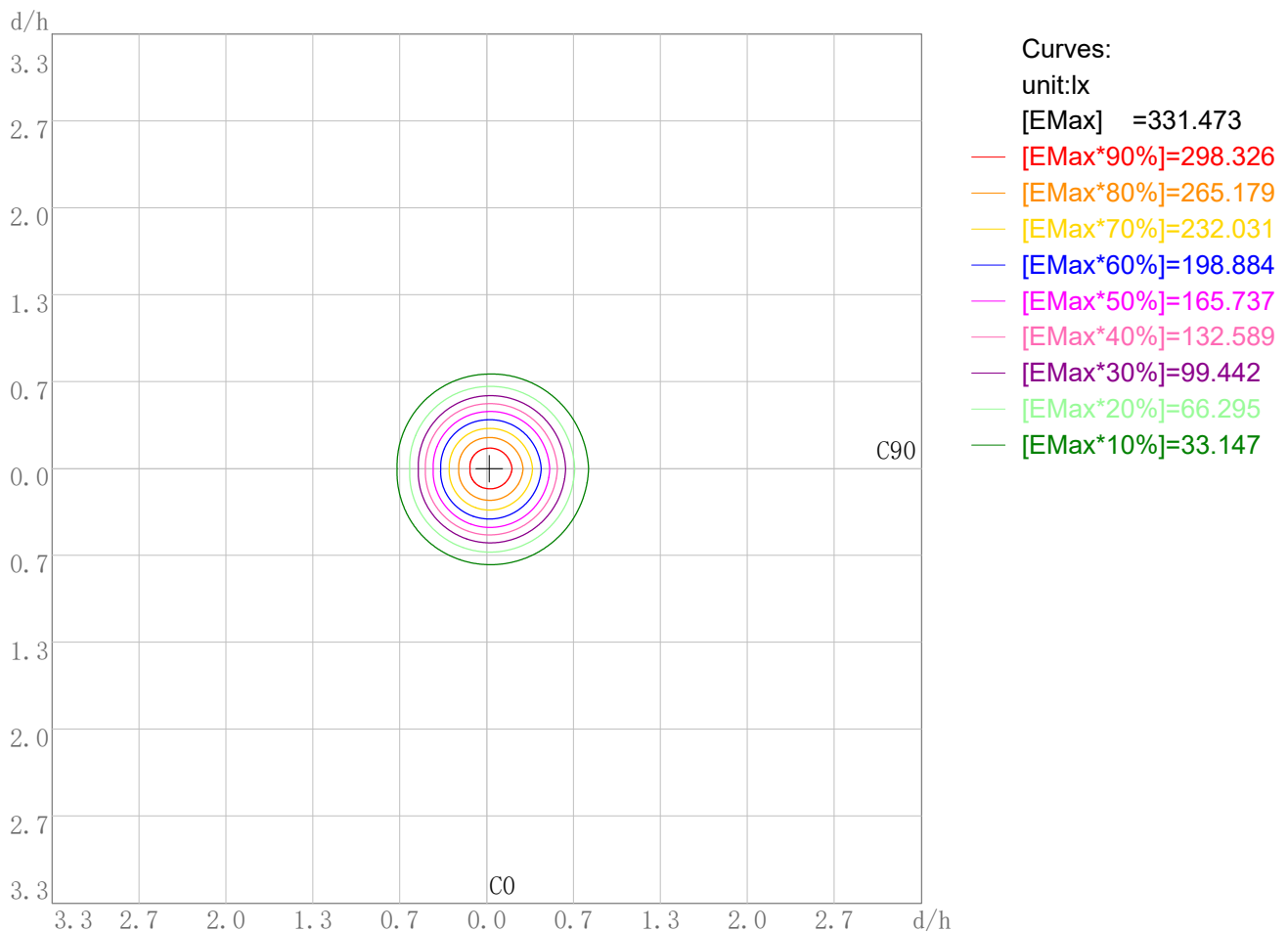


Photometric Filename:DL51-35-XX-01 2700K RA90 60D 金色.IES

## Plane ISO-Illuminance Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 60D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine: GON-2000	Test Date: 2022/08/05

### Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

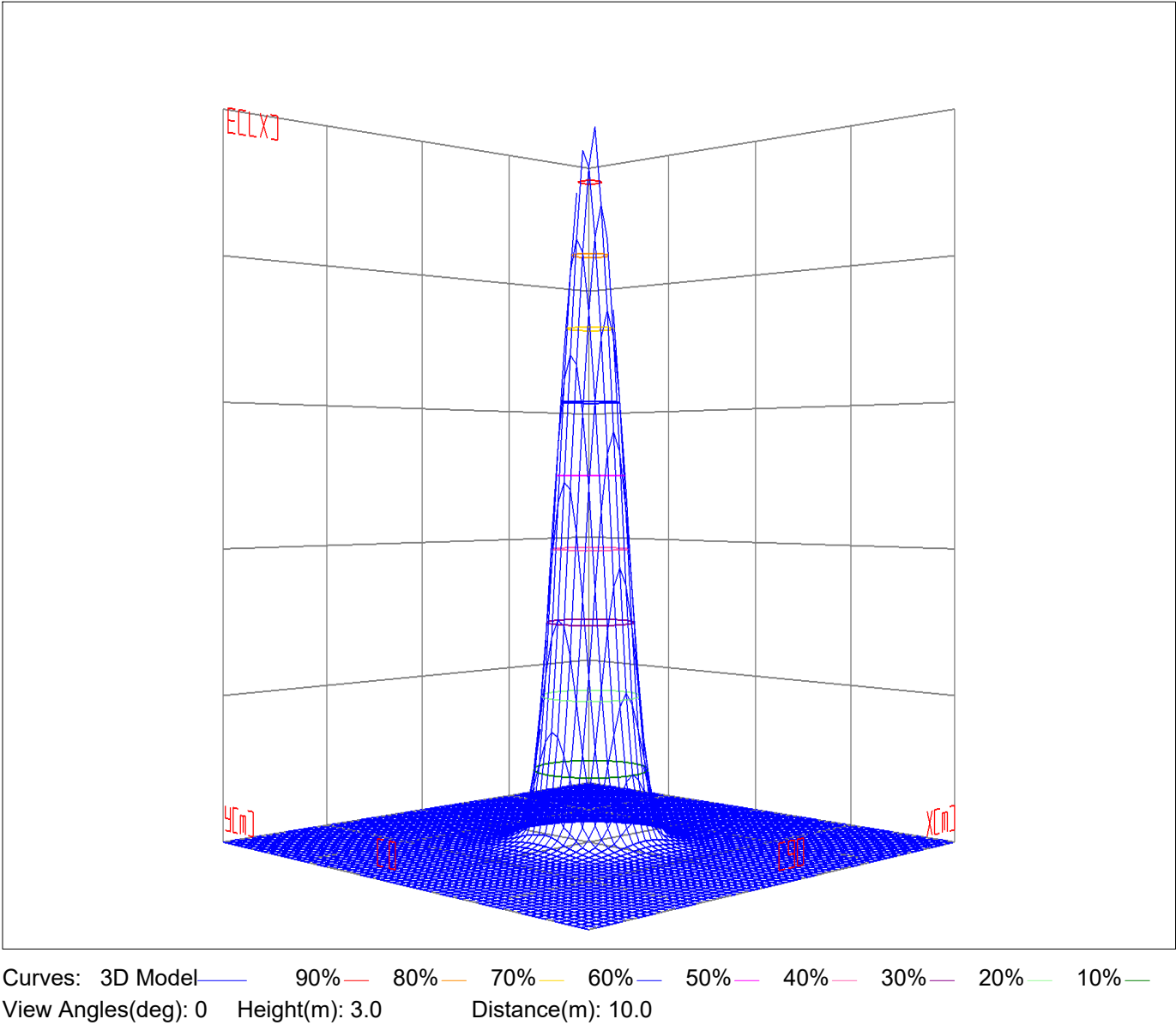
Working Plane Maximum Illuminance(lx): 331.47

Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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

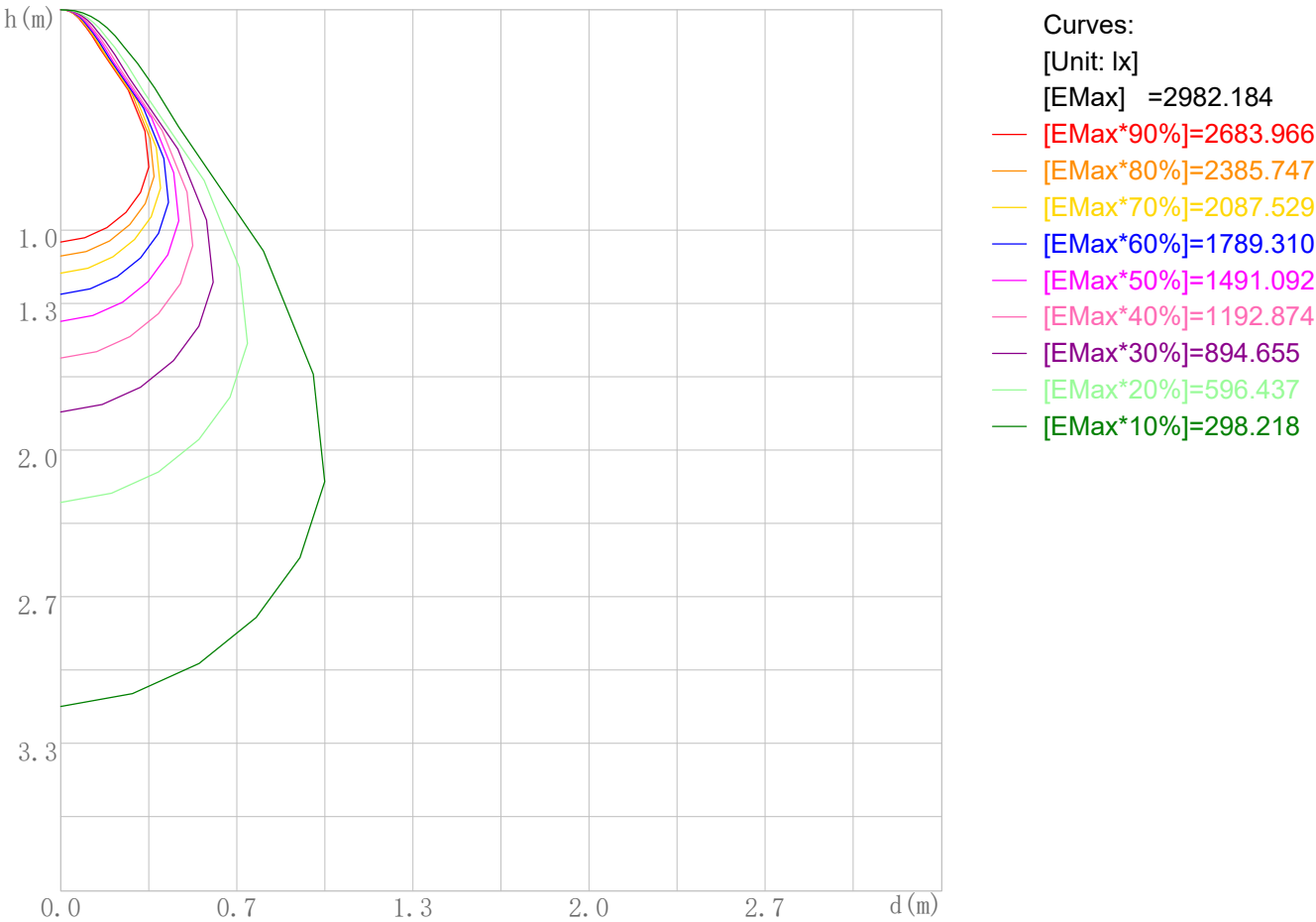
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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

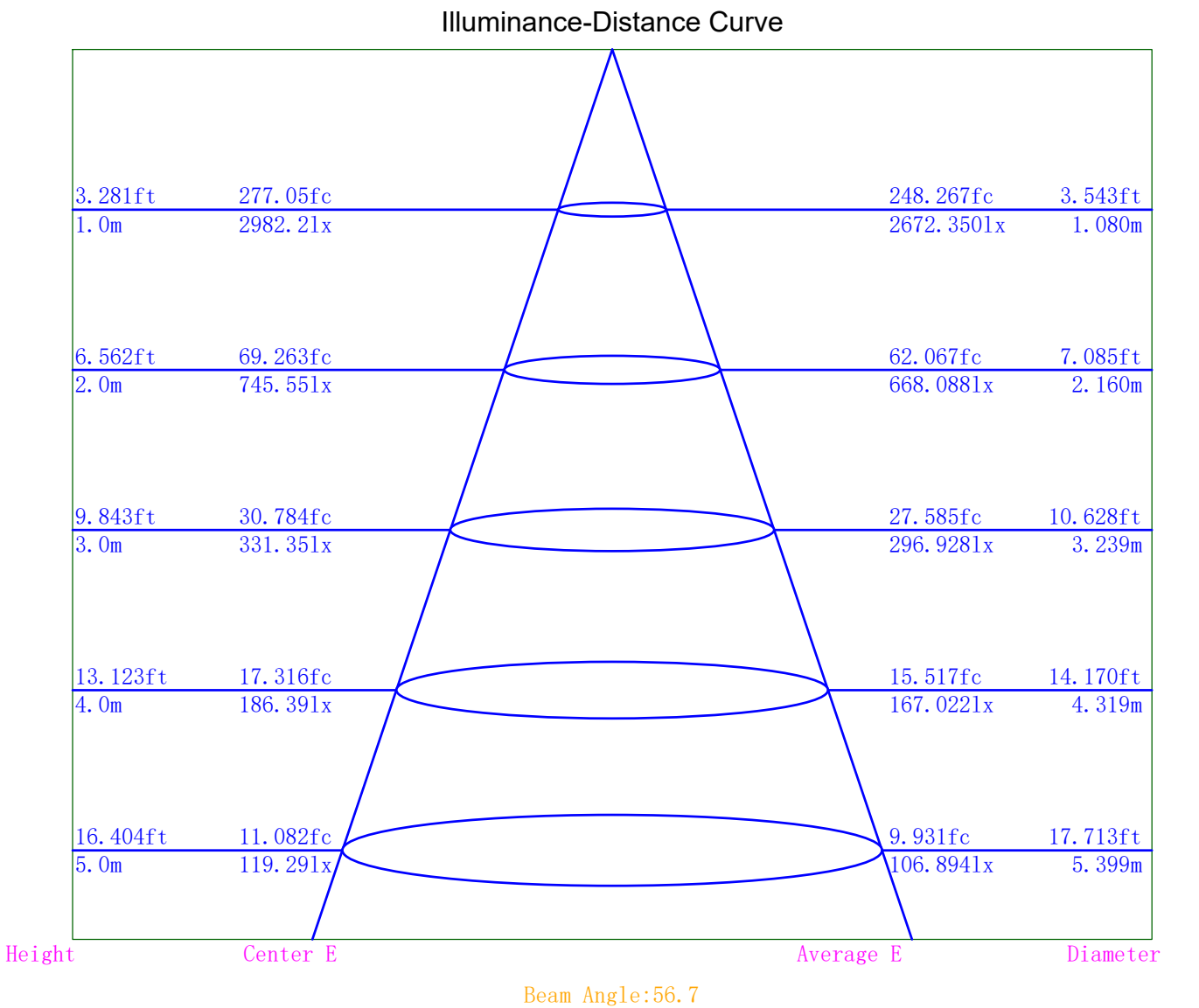


Space Plane Maximum Illuminance and @Angle:2982.18lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:2982.184cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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 60D 金色	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/05

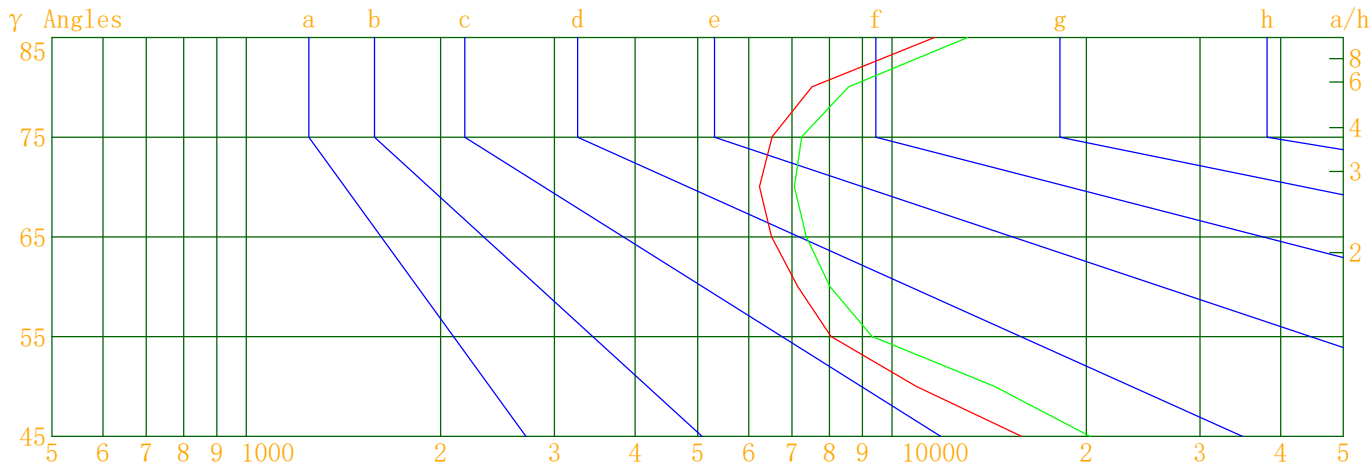
Glare Grade Table

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	15876	10910	8048	7145	6506	6236	6523	7518	11635
C90	20261	14425	9317	8012	7367	7060	7250	8566	13091

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

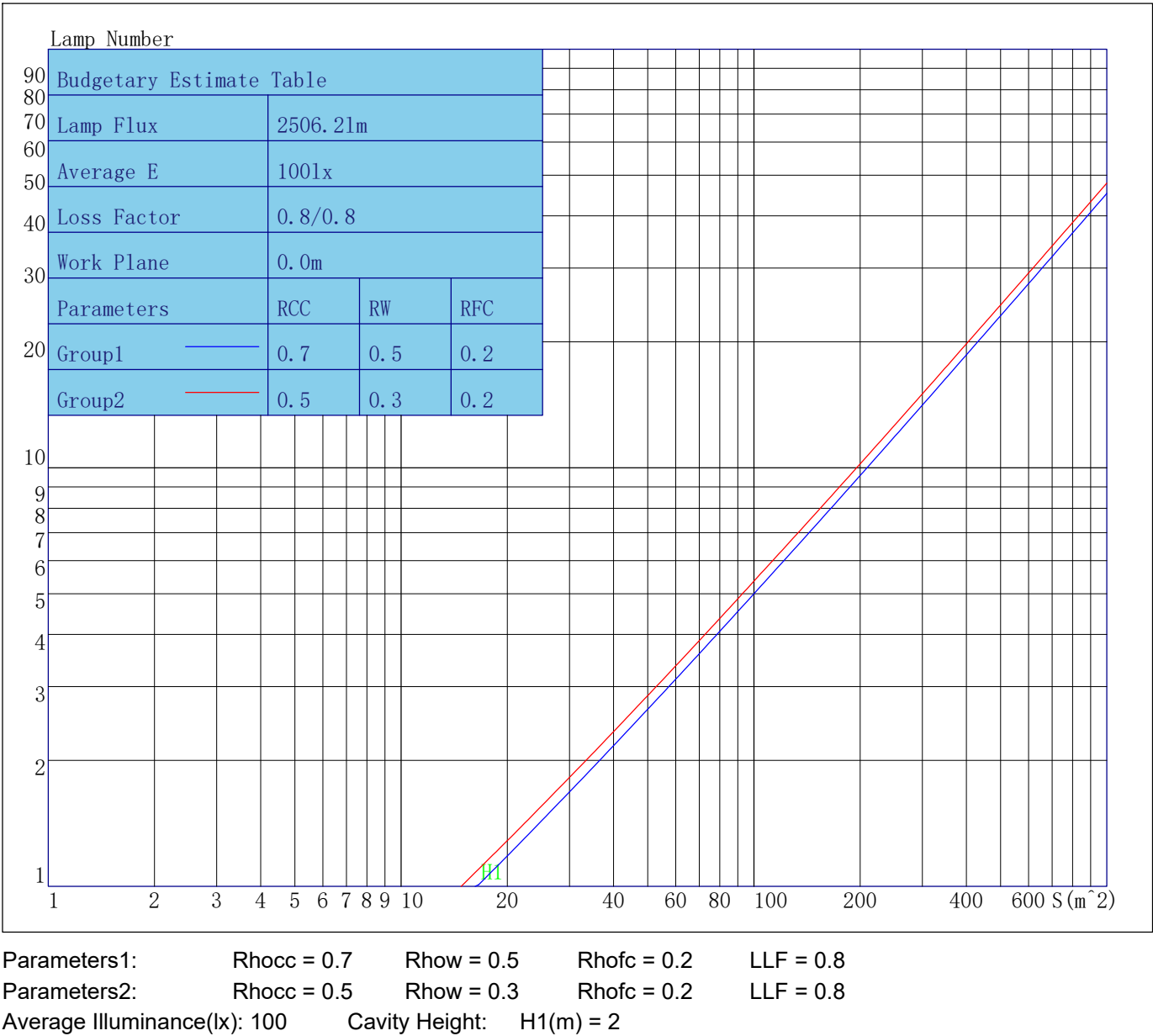
Luminous Curves:

C0-C180 Color: —

C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/05



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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	113	110	107	105	110	107	105	103	103	101	99	99	97	96	95	94	93	91
2	107	102	98	94	105	100	96	93	96	93	91	93	91	88	90	88	86	85
3	102	95	90	86	99	93	89	85	91	87	83	88	85	82	85	83	80	79
4	96	89	83	79	94	88	82	78	85	81	77	83	79	76	81	78	75	73
5	92	83	77	73	90	82	77	73	80	75	72	78	74	71	76	73	70	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	66	72	69	66	64
7	83	74	68	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	70	64	60	78	69	63	59	68	63	59	66	62	59	65	61	58	57
9	75	66	60	56	74	65	60	56	64	59	55	63	58	55	62	58	55	54
10	72	62	57	53	71	62	56	53	61	56	52	60	55	52	59	55	52	51

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 2700K RA90 60D 金色	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	18.9	19.8	19.3	20.2	20.6	20.6	21.5	21.0	21.9	22.3
	Y=3H	19.0	19.8	19.4	20.1	20.6	21.4	21.0	21.8	22.2
	Y=4H	19.0	19.8	19.5	20.2	20.6	21.4	21.1	21.8	22.2
	Y=6H	19.1	19.8	19.6	20.2	20.7	21.3	21.1	21.8	22.2
	Y=8H	19.2	19.8	19.7	20.2	20.7	21.3	21.2	21.8	22.2
	Y=12H	19.3	19.9	19.8	20.3	20.8	21.4	21.3	21.8	22.3
X=4H    Y=2H	18.7	19.5	19.2	19.9	20.3	20.4	21.1	20.8	21.5	22.0
	Y=3H	18.9	19.5	19.3	19.9	20.4	21.0	20.9	21.5	22.0
	Y=4H	19.0	19.5	19.5	20.0	20.5	21.1	21.0	21.5	22.0
	Y=6H	19.2	19.7	19.8	20.2	20.7	21.1	21.2	21.6	22.1
	Y=8H	19.4	19.8	19.9	20.3	20.8	21.2	21.3	21.7	22.2
	Y=12H	19.6	19.9	20.1	20.4	20.9	21.3	21.5	21.8	22.3
X=8H    Y=4H	19.0	19.4	19.5	19.9	20.4	20.5	20.9	21.0	21.4	21.9
	Y=6H	19.3	19.6	19.9	20.2	20.7	21.0	21.3	21.6	22.1
	Y=8H	19.6	19.8	20.1	20.4	20.9	21.2	21.5	21.7	22.3
	Y=12H	19.9	20.1	20.5	20.7	21.3	21.4	21.7	22.0	22.6
X=12H    Y=4H	19.0	19.3	19.5	19.8	20.4	20.4	20.8	20.9	21.3	21.8
	Y=6H	19.3	19.6	19.9	20.1	20.7	21.0	21.3	21.5	22.1
	Y=8H	19.7	19.9	20.2	20.4	21.1	21.2	21.5	21.7	22.3
Variations with the objverver position at spacings										
S=1.0H	0.2/-0.2					0.2/-0.2				
S=1.5H	0.3/-0.4					0.3/-0.3				
S=2.0H	0.4/-0.4					0.4/-0.4				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.2					0.9				

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	2982.18	2982.18	2982.18	2982.18
γ 5.0	2906.17	2994.38	2898.92	2838.86
γ 10.0	2749.06	2869.13	2733.74	2656.25
γ 15.0	2517.78	2691.43	2542.73	2423.56
γ 20.0	2223.21	2449.52	2281.95	2105.18
γ 25.0	1837.86	2117.34	1907.48	1645.26
γ 30.0	1257.02	1576.24	1314.06	995.30
γ 35.0	651.25	904.37	702.20	486.88
γ 40.0	187.46	401.05	204.69	128.90
γ 45.0	106.68	136.15	97.83	76.75
γ 50.0	66.65	88.12	58.40	42.27
γ 55.0	43.87	50.78	34.53	32.04
γ 60.0	33.95	38.07	28.52	26.65
γ 65.0	26.13	29.59	24.36	22.58
γ 70.0	20.27	22.95	20.31	18.45
γ 75.0	16.05	17.83	16.39	14.70
γ 80.0	12.41	14.14	12.96	11.69
γ 85.0	9.64	10.84	10.29	9.52
γ 90.0	7.80	8.90	7.89	7.61
γ 95.0	6.63	6.89	6.85	6.84
γ 100.0	5.97	6.09	6.08	6.11
γ 105.0	5.30	5.59	6.00	5.77
γ 110.0	5.51	5.13	5.80	5.68
γ 115.0	5.71	5.29	5.80	6.22
γ 120.0	5.97	5.79	6.25	7.15
γ 125.0	7.02	6.47	7.29	8.34
γ 130.0	8.37	7.46	8.42	9.49
γ 135.0	9.63	8.99	10.04	10.92
γ 140.0	11.30	10.29	11.31	12.28
γ 145.0	12.85	11.61	12.71	13.73
γ 150.0	14.42	13.18	14.13	14.88
γ 155.0	15.14	14.40	15.24	15.97
γ 160.0	16.41	15.70	16.47	17.02
γ 165.0	17.59	17.14	17.29	17.75
γ 170.0	18.65	17.93	18.52	18.80
γ 175.0	19.38	18.69	19.11	19.52
γ 180.0	19.79	19.79	19.79	19.79