

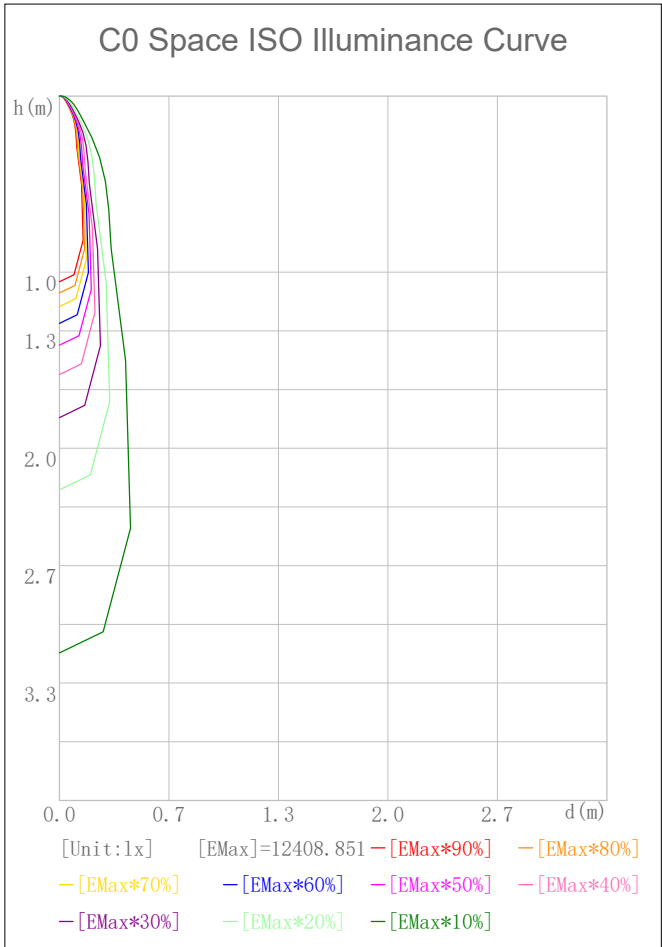
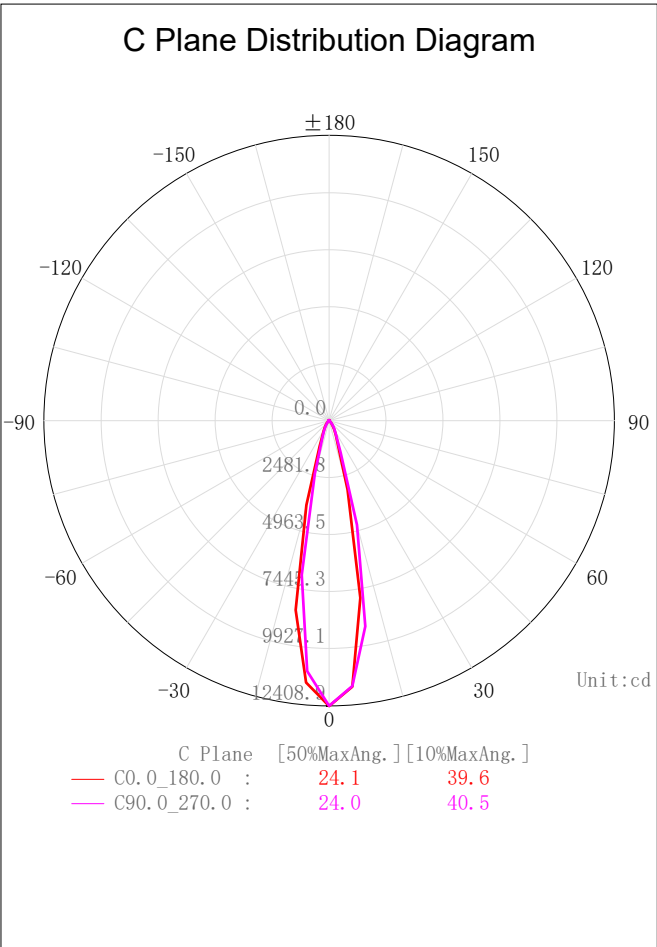
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 2700K RA90 24D 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(%):

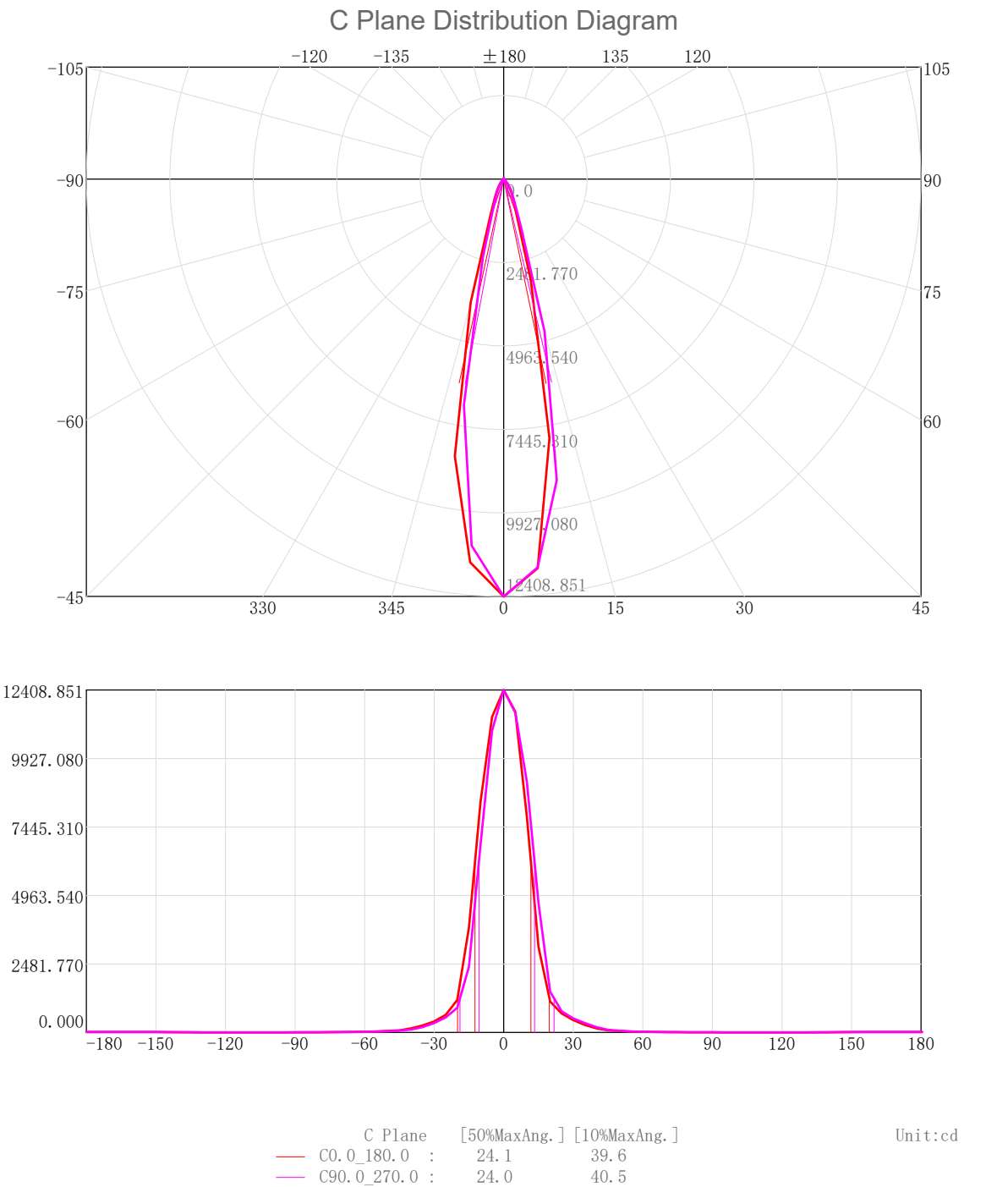
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2758.320	Luminary Flux(lm): 2758.323	Field Angle(10%Imax): 39.6(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2703.151lm 98.00%
Rated Voltage(V):	Luminary EER(lm/W): 81.898	Up Lumens&Percent: 55.172lm 2.00%
Tested Power(W): 33.680	Max. Candela(cd): 12408.851	S/MH: C0_a180=0.413 C90_270=0.410
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):240.0, 0.146	Beam Angle(50%Imax): 24.1(°)	ErP Φ use(90°): 2675.244lm
Lamp Size (W*L*H):0.110m*0.110m*0.000m	Left=-12.4°, Right=11.7°	IRF(%): 991.145



2D Plane Light Intensity Distribution Curve

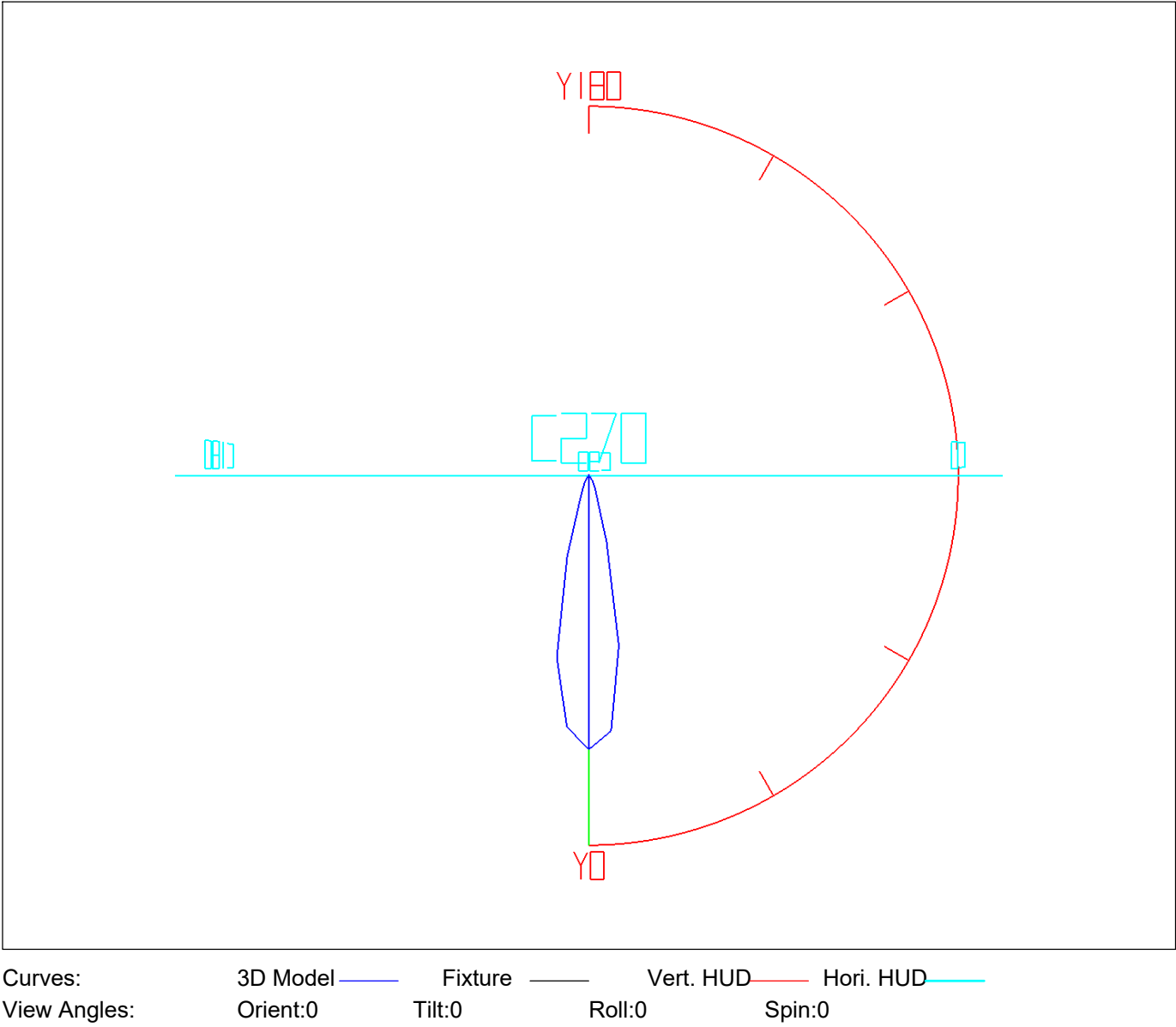
Lum. Name:DL51-35-XX-01 2700K RA90 24D 金色	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/05



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 2700K RA90 24D 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

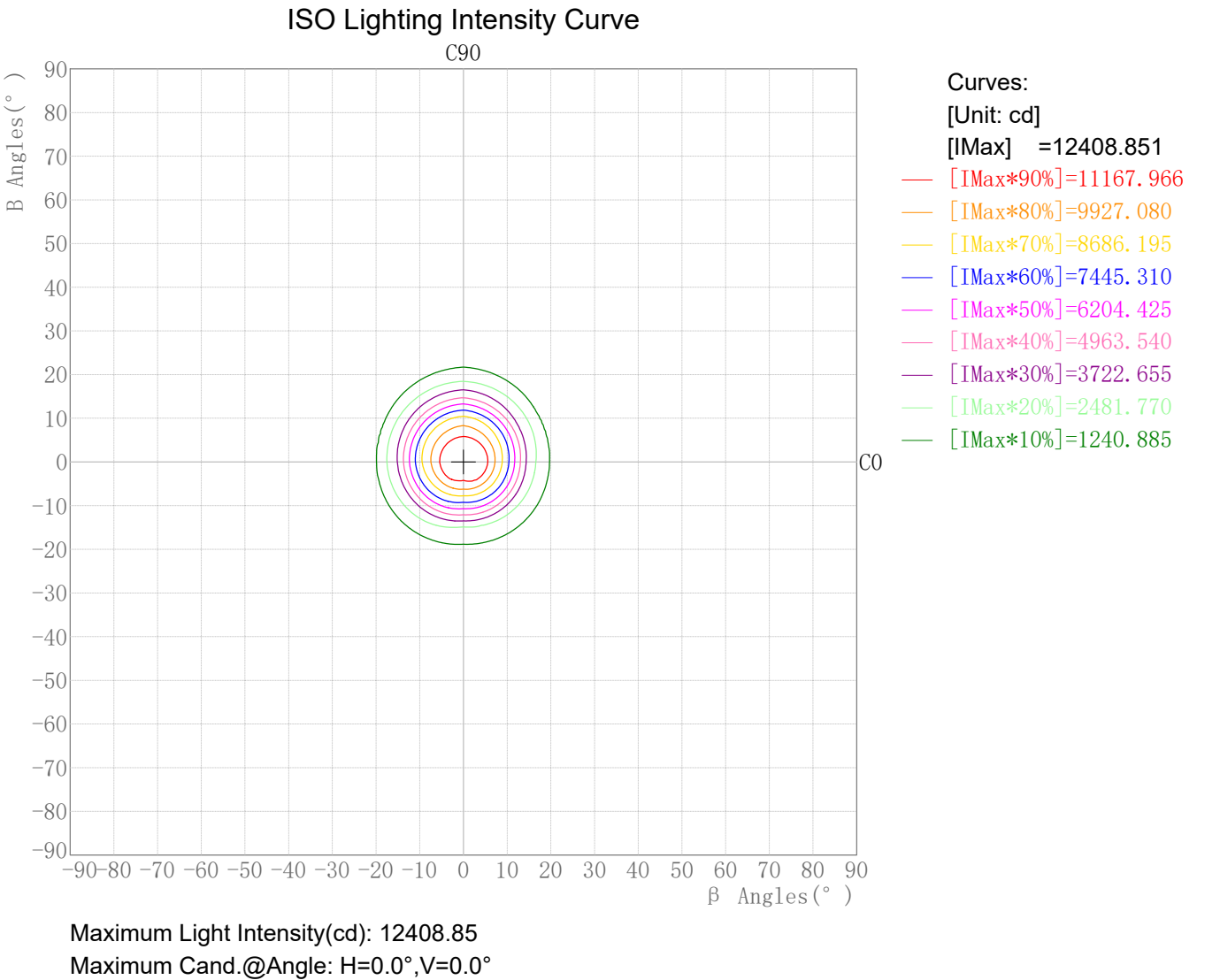


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	284.53	284.53	10.32	10.32
5.0-10.0	694.51	979.04	25.18	35.49
10.0-15.0	683.21	1662.25	24.77	60.26
15.0-20.0	384.49	2046.74	13.94	74.20
20.0-25.0	192.30	2239.04	6.97	81.17
25.0-30.0	137.93	2376.97	5.00	86.17
30.0-35.0	102.40	2479.37	3.71	89.89
35.0-40.0	70.34	2549.71	2.55	92.44
40.0-45.0	43.26	2592.97	1.57	94.01
45.0-50.0	27.35	2620.32	0.99	95.00
50.0-55.0	19.89	2640.21	0.72	95.72
55.0-60.0	15.14	2655.36	0.55	96.27
60.0-65.0	12.37	2667.73	0.45	96.72
65.0-70.0	10.14	2677.87	0.37	97.08
70.0-75.0	8.30	2686.17	0.30	97.38
75.0-80.0	6.79	2692.96	0.25	97.63
80.0-85.0	5.60	2698.57	0.20	97.83
85.0-90.0	4.58	2703.15	0.17	98.00
90.0-95.0	3.79	2706.95	0.14	98.14
95.0-100.0	3.28	2710.23	0.12	98.26
100.0-105.0	2.95	2713.18	0.11	98.36
105.0-110.0	2.74	2715.92	0.10	98.46
110.0-115.0	2.55	2718.47	0.09	98.56
115.0-120.0	2.38	2720.85	0.09	98.64
120.0-125.0	2.33	2723.17	0.08	98.73
125.0-130.0	2.51	2725.68	0.09	98.82
130.0-135.0	3.01	2728.70	0.11	98.93
135.0-140.0	3.70	2732.40	0.13	99.06
140.0-145.0	4.37	2736.77	0.16	99.22
145.0-150.0	4.77	2741.54	0.17	99.39
150.0-155.0	4.71	2746.25	0.17	99.56
155.0-160.0	4.23	2750.48	0.15	99.72
160.0-165.0	3.45	2753.93	0.13	99.84
165.0-170.0	2.47	2756.40	0.09	99.93
170.0-175.0	1.45	2757.85	0.05	99.98
175.0-180.0	0.48	2758.32	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 24D 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

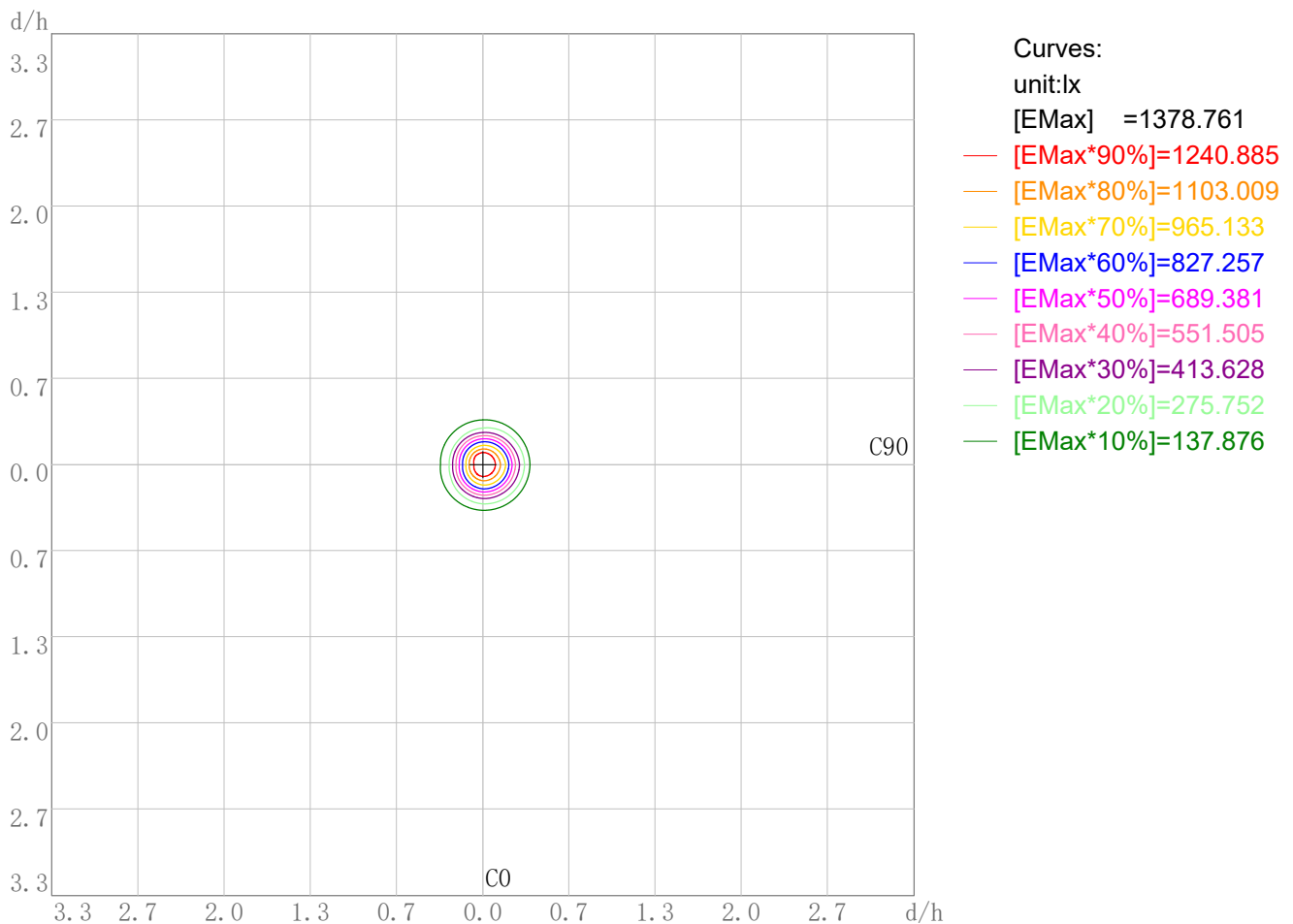


**Photometric Filename:DL51-35-XX-01 2700K RA90 24D 金色.IES**

## Plane ISO-Illuminance Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 24D 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

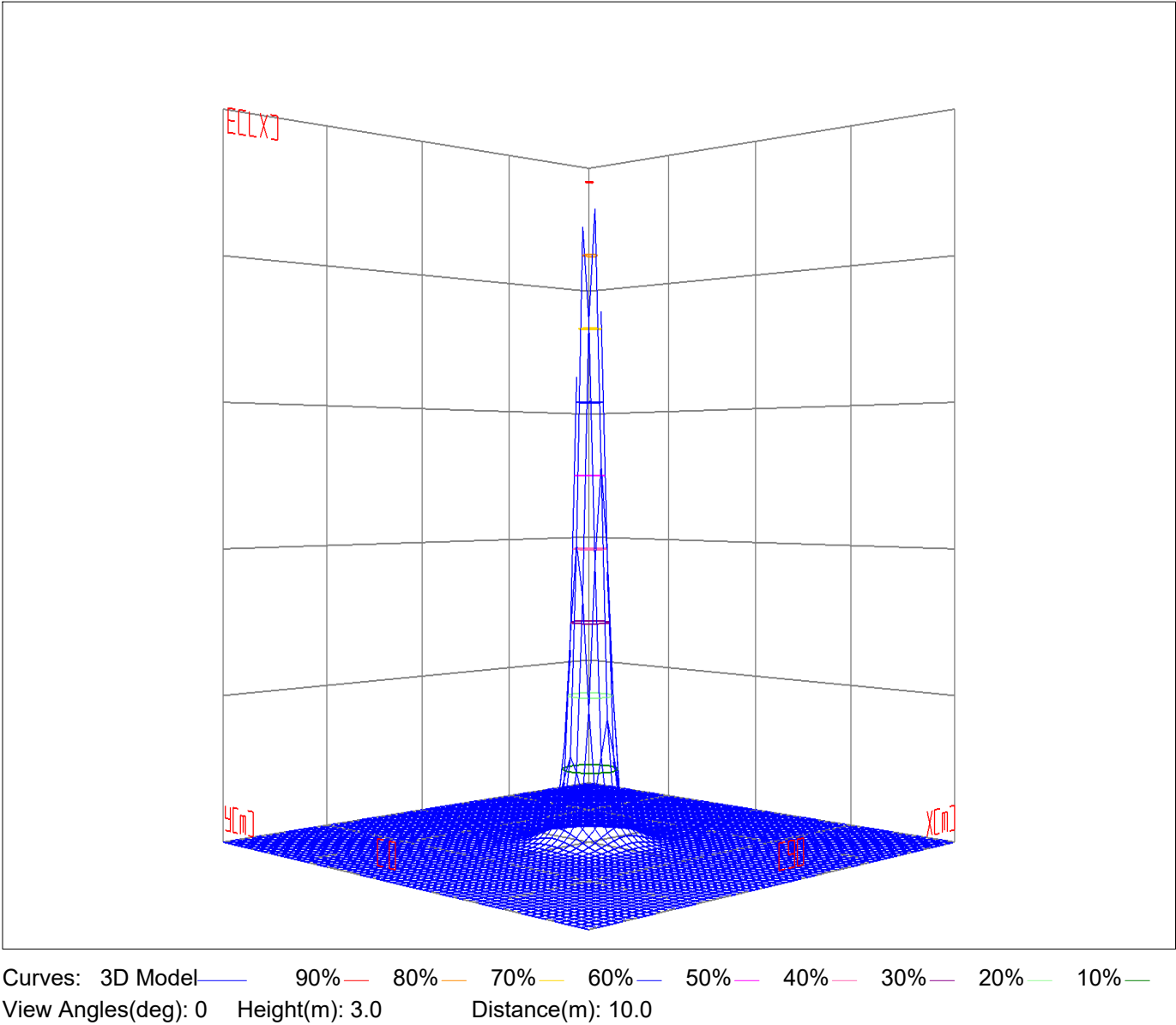
Working Plane Maximum Illuminance(lx): 1378.76

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

3D Plane ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 2700K RA90 24D 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

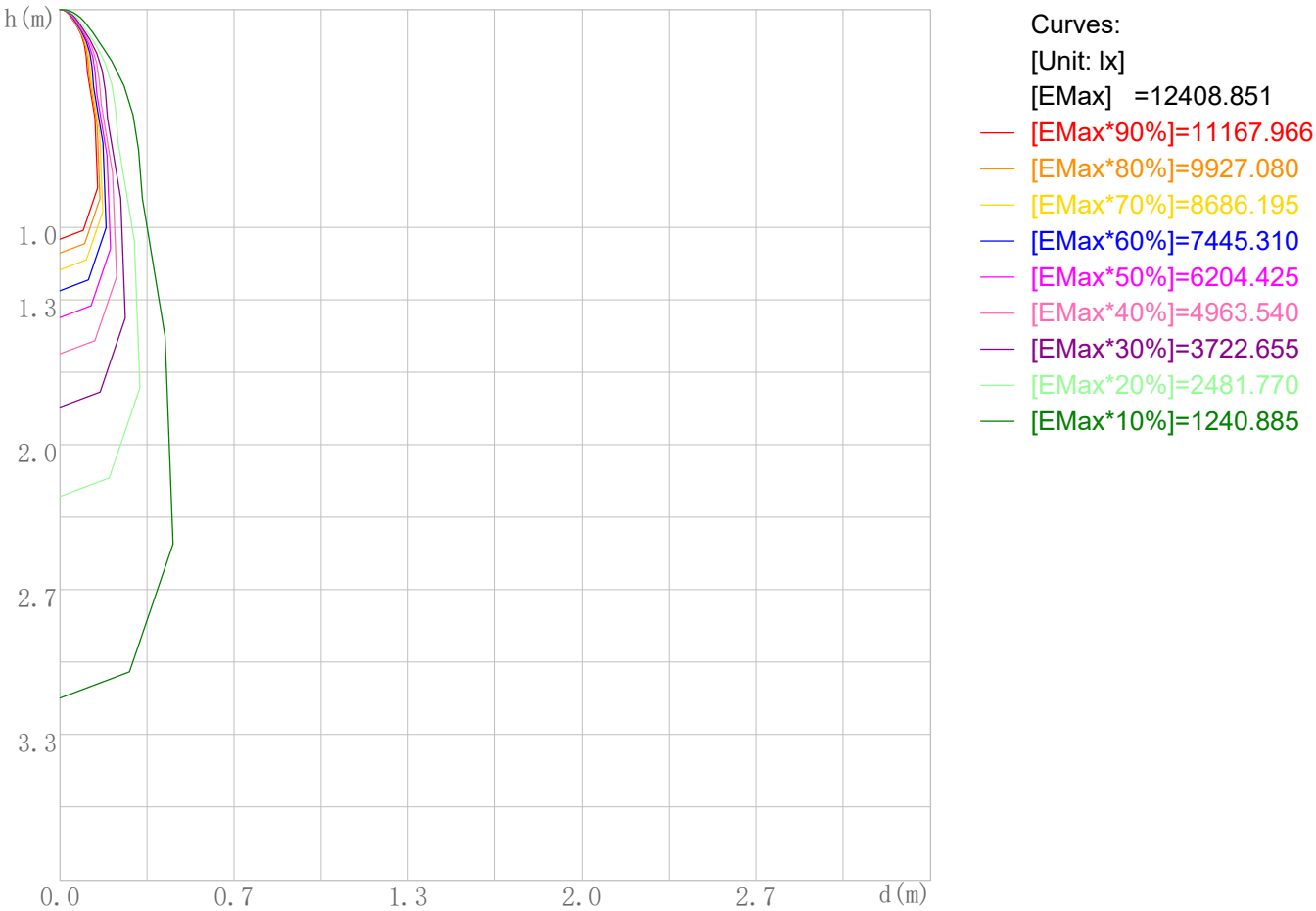
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 24D 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

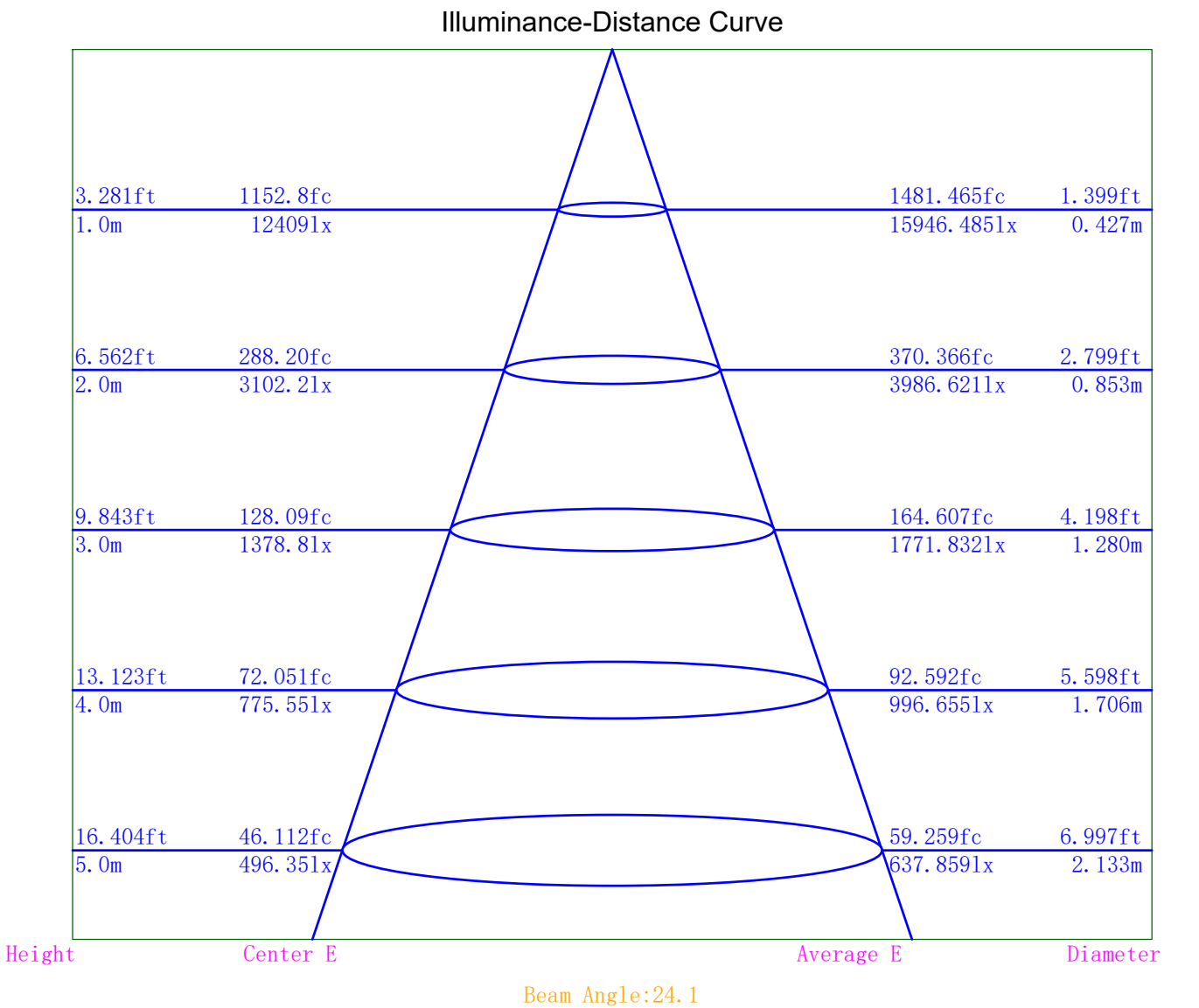


Space Plane Maximum Illuminance and @Angle:12408.85lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:12408.851cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 2700K RA90 24D 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 24D 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

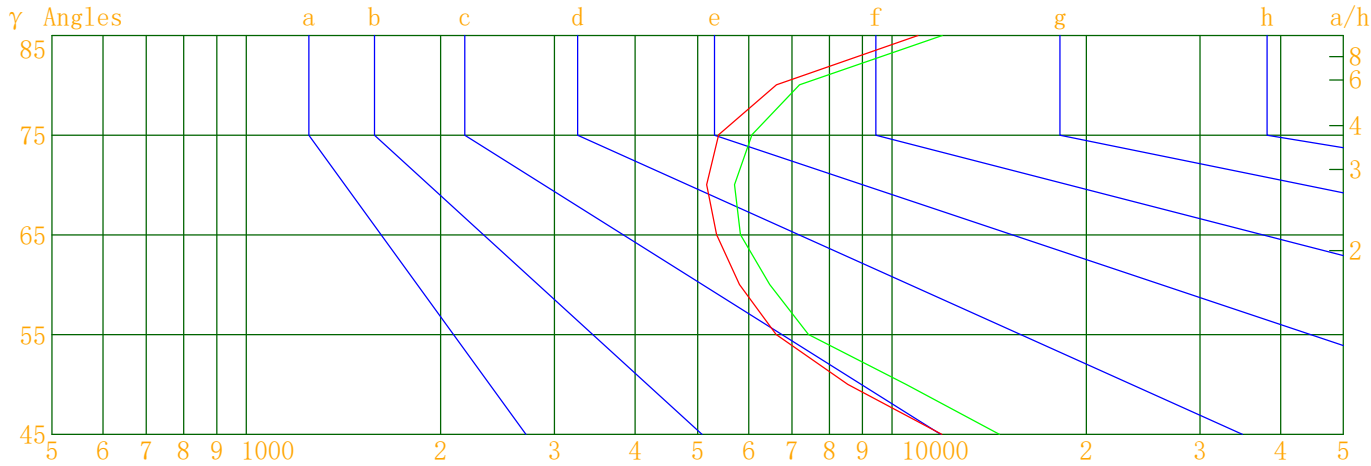
Glare Grade Table

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	11946	8544	6617	5805	5351	5164	5389	6623	10972
C90	14674	10517	7424	6465	5824	5703	6068	7190	11965

Luminance Limiting Curve



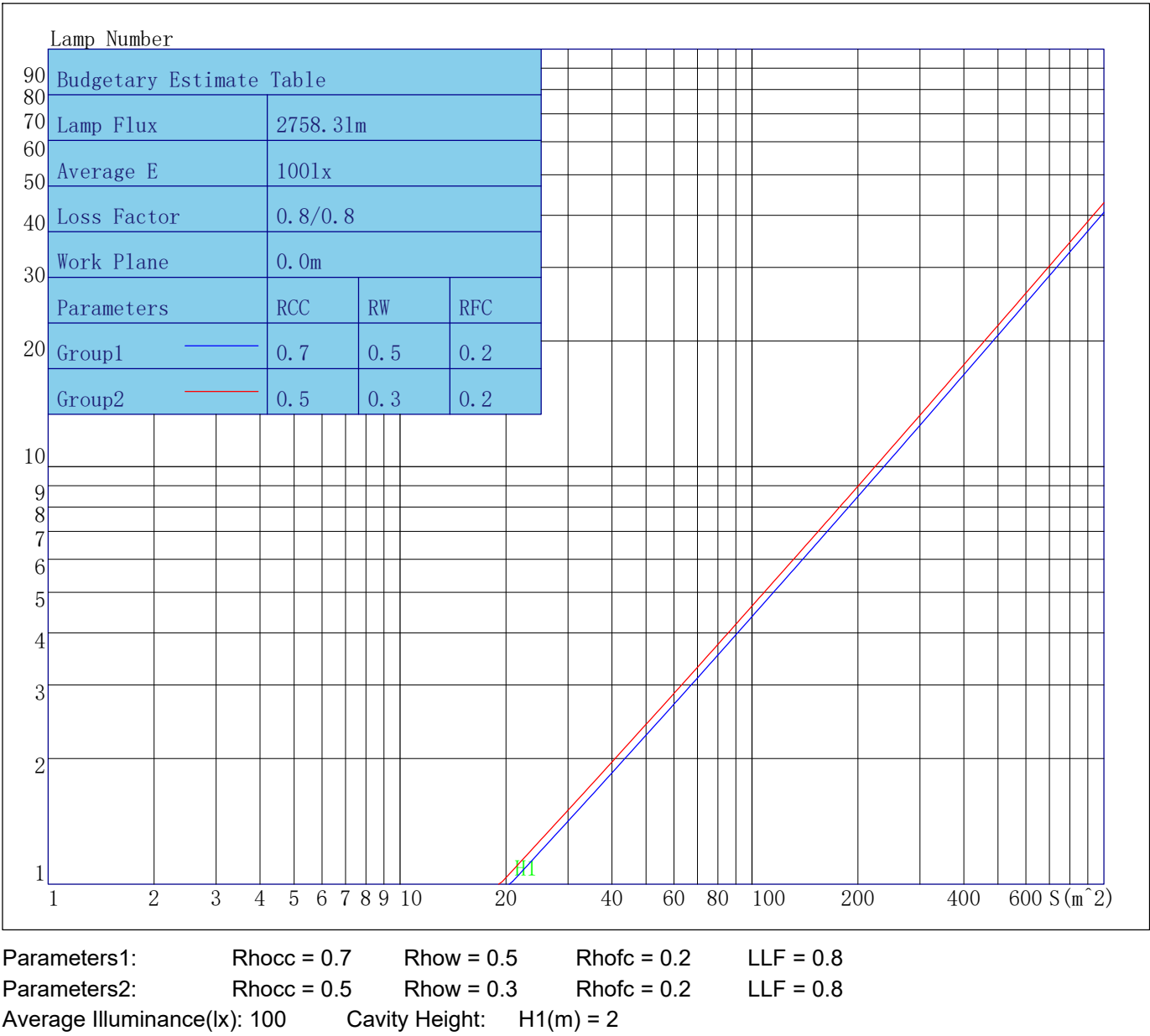
Luminous Size:Length(m)=-0.110Width(m)=-0.110Height(m)=0.000Area(m^2)=0.009503

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 24D 金色	Lum. Catalog:Lum. Catalog: LED	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 24D 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	114	112	109	108	111	109	107	106	105	103	102	101	100	99	97	96	96	94
2	110	106	102	100	107	104	101	98	100	98	96	97	95	94	94	93	91	90
3	106	101	97	94	104	99	96	93	96	93	91	94	91	89	91	89	88	86
4	102	96	92	89	100	95	91	88	93	89	87	91	88	86	89	86	84	83
5	99	92	88	85	97	91	87	84	90	86	83	88	85	82	86	84	82	80
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	81	79	76	75
8	90	83	79	76	89	82	78	75	81	78	75	80	77	75	79	76	74	73
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	77	74	72	71
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	75	72	70	69

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 2700K RA90 24D 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	14.1	14.9	14.5	15.3	15.7	15.1	15.9	15.5	16.3	16.7
	Y=3H	14.5	15.2	14.9	15.6	16.0	15.4	16.2	15.8	16.5	17.0
	Y=4H	14.7	15.4	15.2	15.8	16.3	15.6	16.3	16.1	16.7	17.2
	Y=6H	15.1	15.7	15.6	16.2	16.6	16.0	16.6	16.4	17.0	17.5
	Y=8H	15.3	15.9	15.8	16.4	16.8	16.2	16.8	16.6	17.2	17.7
	Y=12H	15.6	16.2	16.1	16.6	17.1	16.5	17.0	16.9	17.4	17.9
X=4H	Y=2H	14.1	14.8	14.5	15.2	15.6	15.0	15.7	15.5	16.1	16.6
	Y=3H	14.7	15.3	15.1	15.7	16.2	15.5	16.1	16.0	16.6	17.0
	Y=4H	15.1	15.6	15.6	16.1	16.6	15.9	16.4	16.4	16.9	17.4
	Y=6H	15.7	16.1	16.2	16.6	17.1	16.4	16.9	17.0	17.3	17.9
	Y=8H	16.0	16.4	16.5	16.9	17.4	16.8	17.1	17.3	17.6	18.2
	Y=12H	16.5	16.8	17.0	17.3	17.8	17.2	17.5	17.7	18.0	18.6
X=8H	Y=4H	15.2	15.6	15.7	16.1	16.6	16.0	16.4	16.5	16.9	17.4
	Y=6H	16.0	16.3	16.5	16.8	17.4	16.7	17.0	17.3	17.6	18.1
	Y=8H	16.5	16.8	17.1	17.3	17.9	17.2	17.4	17.8	18.0	18.6
	Y=12H	17.2	17.4	17.8	17.9	18.6	17.9	18.1	18.4	18.6	19.2
X=12H	Y=4H	15.2	15.6	15.8	16.1	16.6	16.0	16.3	16.5	16.9	17.4
	Y=6H	16.1	16.3	16.7	16.8	17.4	16.8	17.0	17.4	17.6	18.1
	Y=8H	16.7	16.9	17.3	17.4	18.1	17.4	17.6	17.9	18.1	18.7
Variations with the objerver position at spacings											
S=1.0H		0.1/-0.1					0.2/-0.2				
S=1.5H		0.3/-0.3					0.3/-0.3				
S=2.0H		0.3/-0.3					0.3/-0.3				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		2.3					2.1				

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	12408.9	12408.9	12408.9	12408.9
γ 5.0	11613.8	11584.1	11432.1	10937.3
γ 10.0	7825.6	9086.7	8360.9	6816.7
γ 15.0	3102.9	4696.9	3797.7	2382.8
γ 20.0	1121.5	1483.4	1180.4	895.6
γ 25.0	692.3	772.1	641.4	547.2
γ 30.0	449.0	510.4	404.5	342.7
γ 35.0	275.7	345.2	256.0	198.2
γ 40.0	151.6	196.3	153.7	109.6
γ 45.0	80.3	98.6	78.0	66.4
γ 50.0	52.2	64.2	56.7	45.0
γ 55.0	36.1	40.5	37.3	33.9
γ 60.0	27.6	30.7	29.6	26.4
γ 65.0	21.5	23.4	23.2	21.2
γ 70.0	16.8	18.5	18.8	16.8
γ 75.0	13.3	14.9	14.6	13.3
γ 80.0	10.9	11.9	11.7	10.8
γ 85.0	9.1	9.9	9.5	8.6
γ 90.0	7.6	7.9	7.4	7.0
γ 95.0	6.8	6.6	6.4	5.9
γ 100.0	6.0	6.1	5.5	5.2
γ 105.0	5.7	5.9	5.0	4.8
γ 110.0	5.1	5.8	5.1	4.7
γ 115.0	4.9	5.1	4.7	4.8
γ 120.0	4.7	4.7	4.9	5.2
γ 125.0	4.8	4.8	5.4	5.7
γ 130.0	5.9	5.3	6.8	7.4
γ 135.0	8.0	7.0	9.3	9.9
γ 140.0	11.1	9.9	11.6	13.2
γ 145.0	14.5	13.2	15.0	16.3
γ 150.0	17.4	16.1	18.2	18.9
γ 155.0	19.6	18.6	20.2	19.7
γ 160.0	21.1	19.9	21.3	20.8
γ 165.0	21.1	20.9	21.6	20.9
γ 170.0	20.5	20.5	21.1	20.0
γ 175.0	19.9	20.1	20.1	19.8
γ 180.0	19.9	19.9	19.9	19.9