

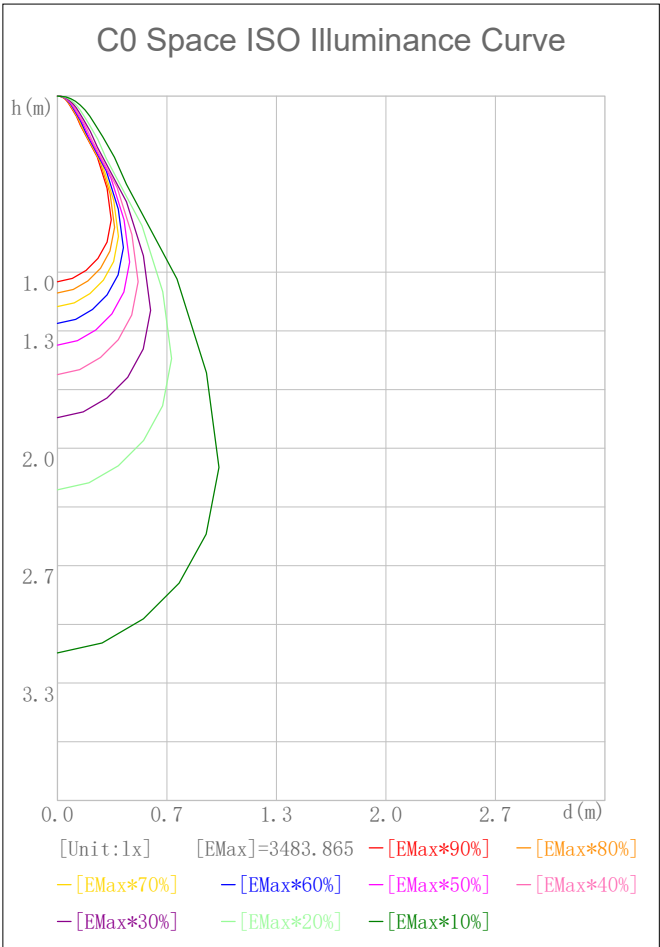
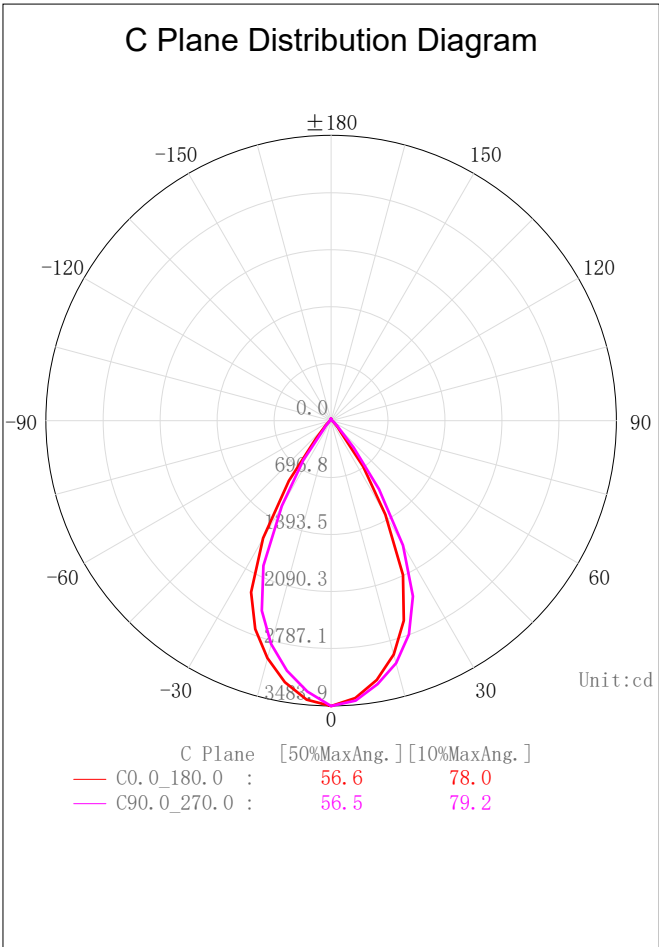
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 4000K RA90 60D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/11
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): 0.012	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

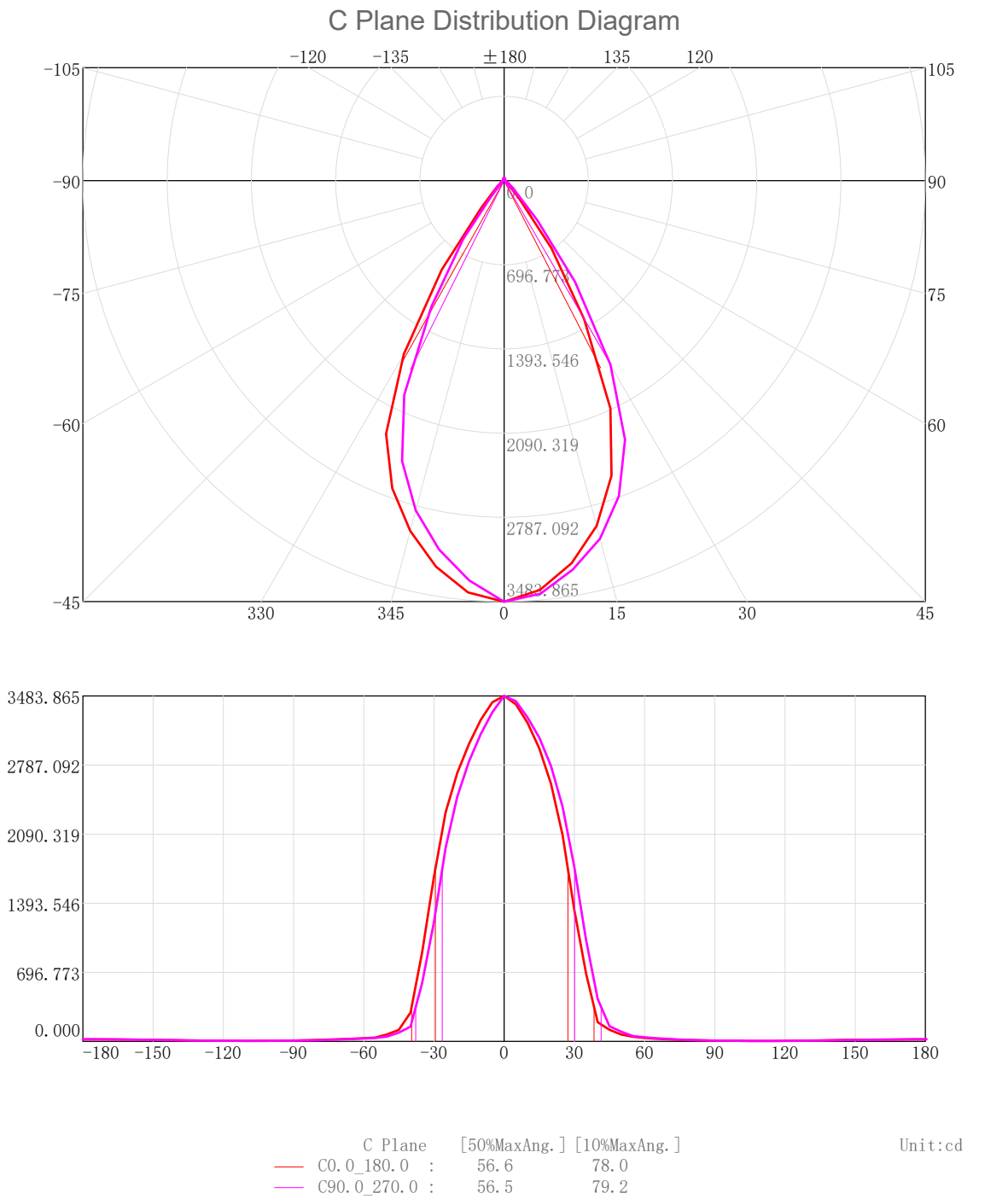
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 2905.260	Luminary Flux(lm): 2905.260	Field Angle(10%Imax): 78.0(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2843.364lm 97.87%
Rated Voltage(V):	Luminary EER(lm/W): 84.529	Up Lumens&Percent: 61.897lm 2.13%
Tested Power(W): 34.370	Max. Candela(cd): 3483.865	S/MH: C0_a180=0.895 C90_270=0.886
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 240.0, 0.148, 0.963	Beam Angle(50%Imax): 56.6(°)	ErP Φ use(90°): 2773.399lm
Lamp Size (W*L*H): 0.110m*0.110m*0.000m	Left=-29.4°, Right=27.2°	IRF(%): 269.906



2D Plane Light Intensity Distribution Curve

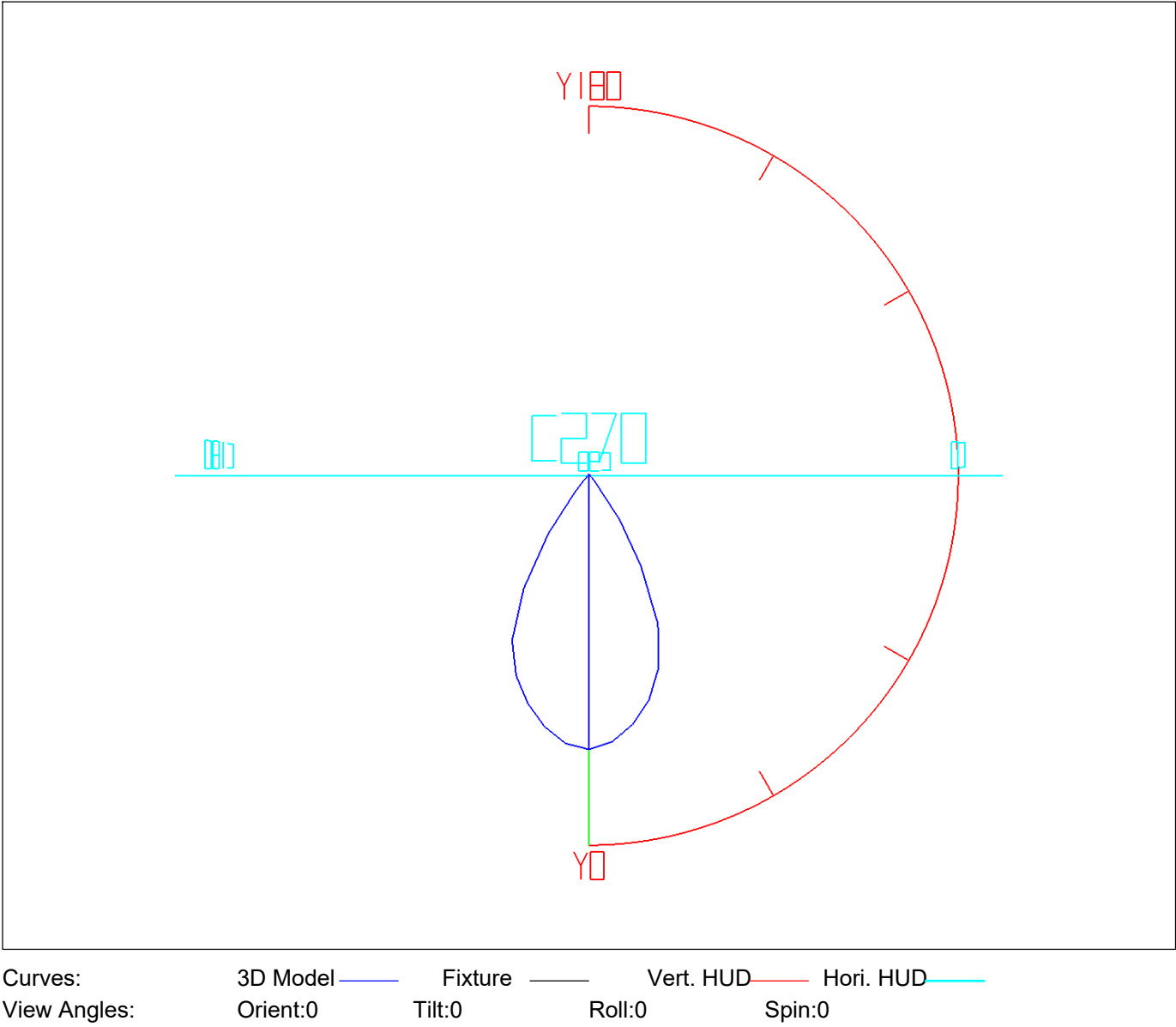
Lum. Name:DL51-35-XX-01 4000K RA90 60D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/11



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

3D Light Intensity Distribution Modal

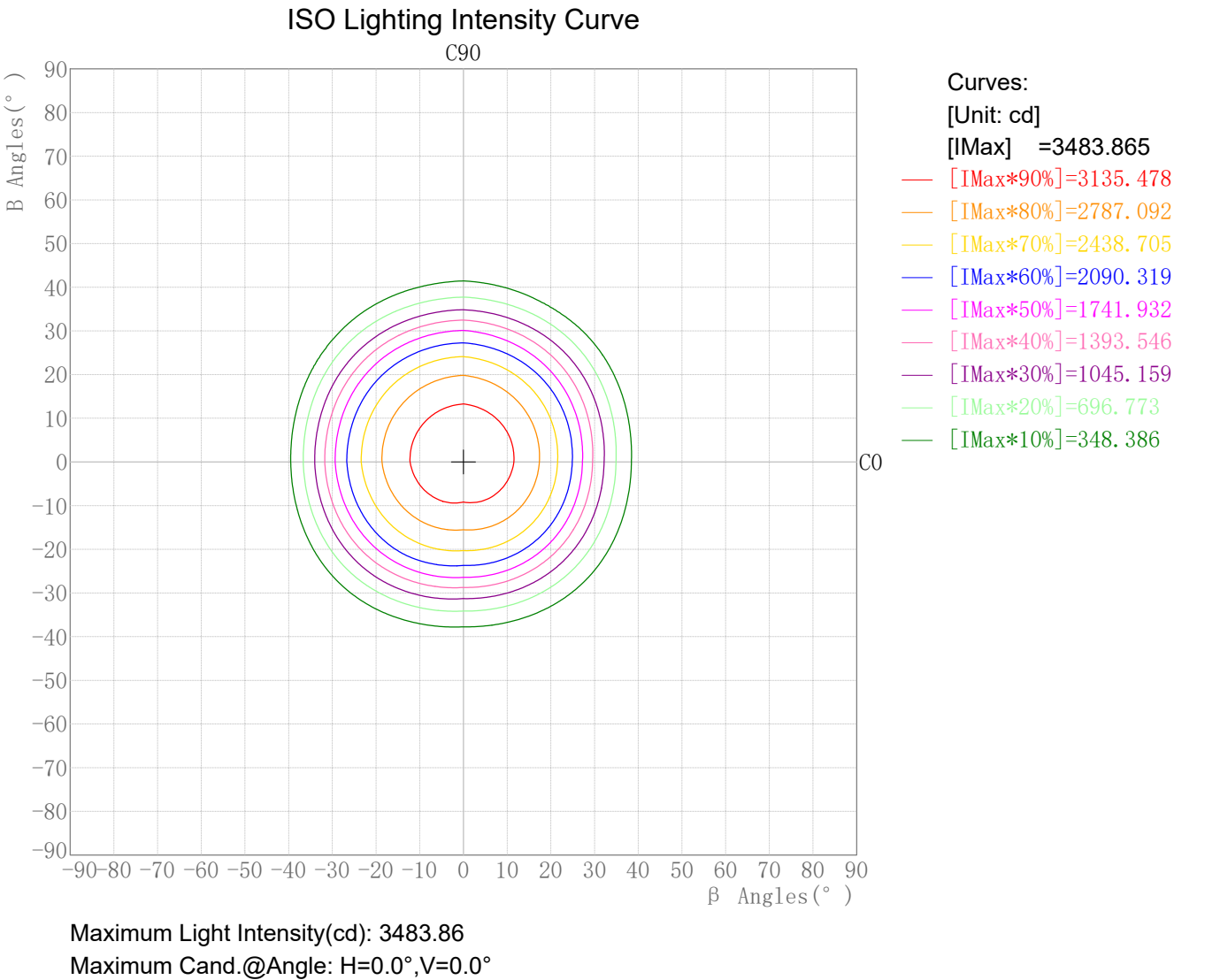


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	82.21	82.21	2.83	2.83
5.0-10.0	236.07	318.28	8.13	10.96
10.0-15.0	365.88	684.16	12.59	23.55
15.0-20.0	461.49	1145.65	15.88	39.43
20.0-25.0	505.10	1650.75	17.39	56.82
25.0-30.0	463.68	2114.43	15.96	72.78
30.0-35.0	336.43	2450.86	11.58	84.36
35.0-40.0	177.66	2628.52	6.12	90.47
40.0-45.0	71.41	2699.93	2.46	92.93
45.0-50.0	38.84	2738.77	1.34	94.27
50.0-55.0	25.56	2764.33	0.88	95.15
55.0-60.0	18.57	2782.90	0.64	95.79
60.0-65.0	15.53	2798.43	0.53	96.32
65.0-70.0	13.05	2811.48	0.45	96.77
70.0-75.0	10.74	2822.23	0.37	97.14
75.0-80.0	8.66	2830.89	0.30	97.44
80.0-85.0	6.94	2837.83	0.24	97.68
85.0-90.0	5.54	2843.36	0.19	97.87
90.0-95.0	4.59	2847.96	0.16	98.03
95.0-100.0	4.00	2851.96	0.14	98.17
100.0-105.0	3.51	2855.47	0.12	98.29
105.0-110.0	3.20	2858.67	0.11	98.40
110.0-115.0	3.11	2861.78	0.11	98.50
115.0-120.0	3.15	2864.94	0.11	98.61
120.0-125.0	3.38	2868.32	0.12	98.73
125.0-130.0	3.75	2872.06	0.13	98.86
130.0-135.0	4.09	2876.15	0.14	99.00
135.0-140.0	4.36	2880.51	0.15	99.15
140.0-145.0	4.51	2885.02	0.16	99.30
145.0-150.0	4.49	2889.51	0.15	99.46
150.0-155.0	4.26	2893.77	0.15	99.60
155.0-160.0	3.80	2897.58	0.13	99.74
160.0-165.0	3.18	2900.76	0.11	99.85
165.0-170.0	2.43	2903.19	0.08	99.93
170.0-175.0	1.54	2904.73	0.05	99.98
175.0-180.0	0.53	2905.26	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

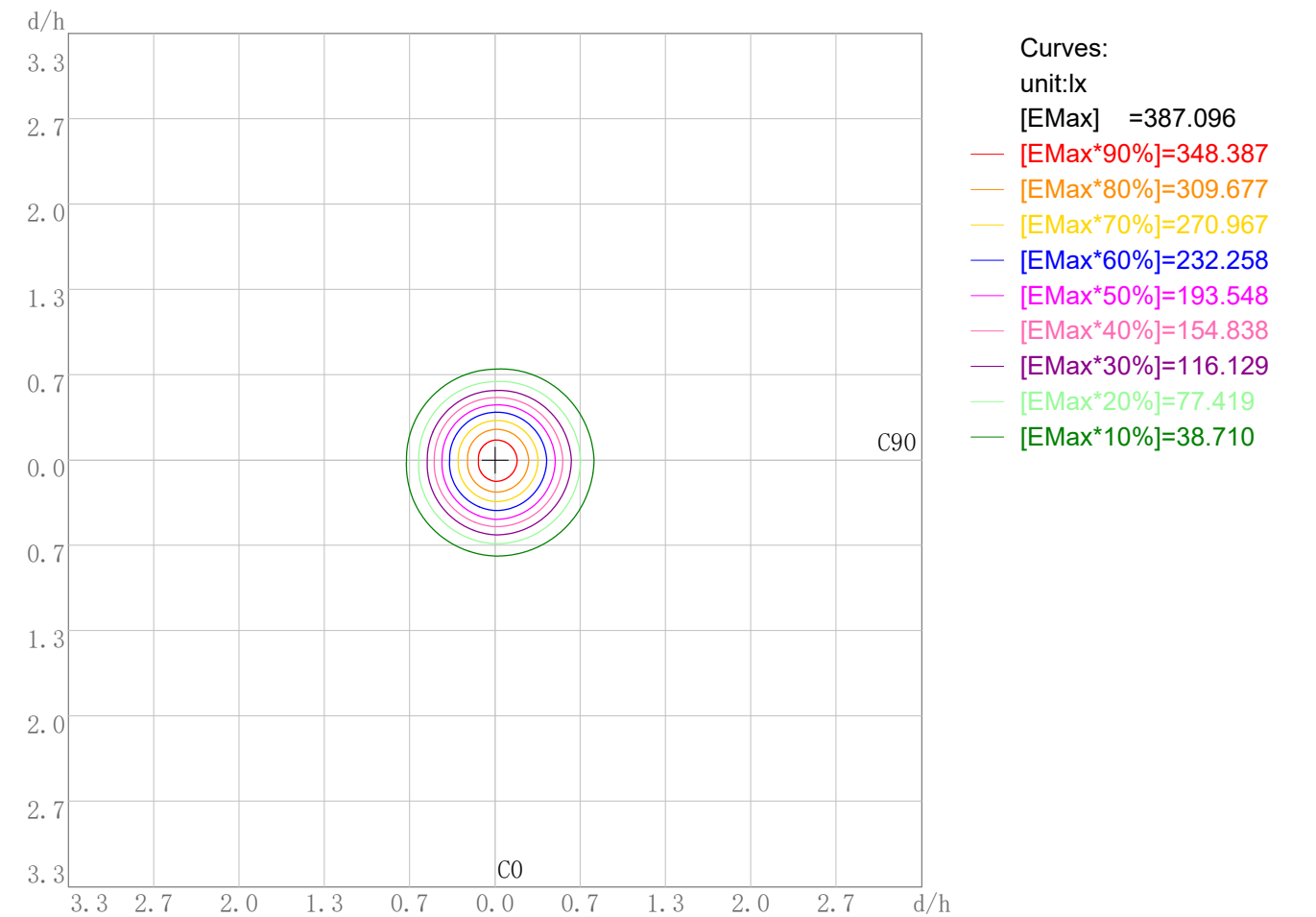
Lum. Name: DL51-35-XX-01 4000K RA90 60D 金色	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/11



Plane ISO-Illuminance Diagram

Lum. Name:DL51-35-XX-01 4000K 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: 2022/08/11

Plane ISO-Illuminance Curve

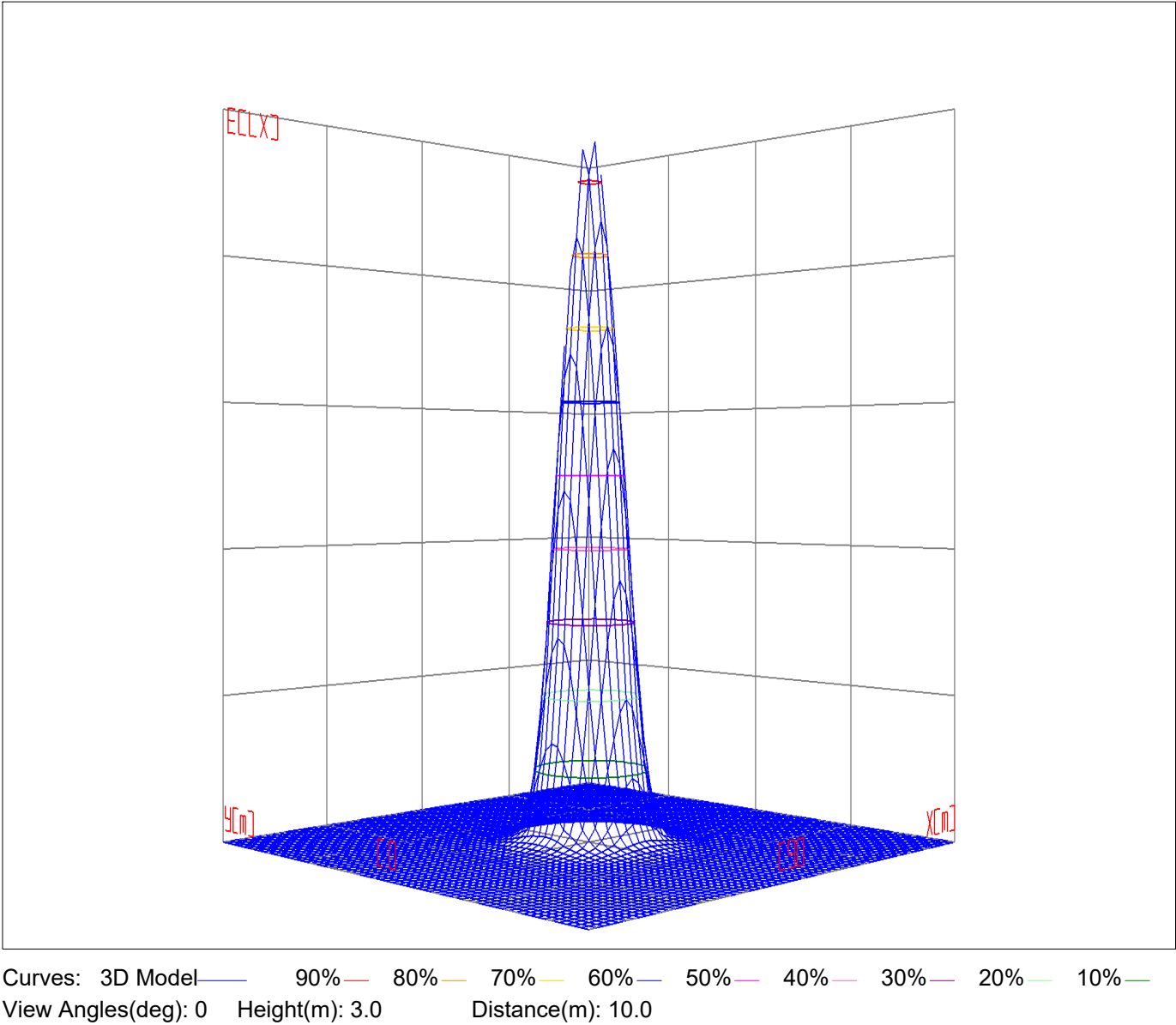


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 387.10  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

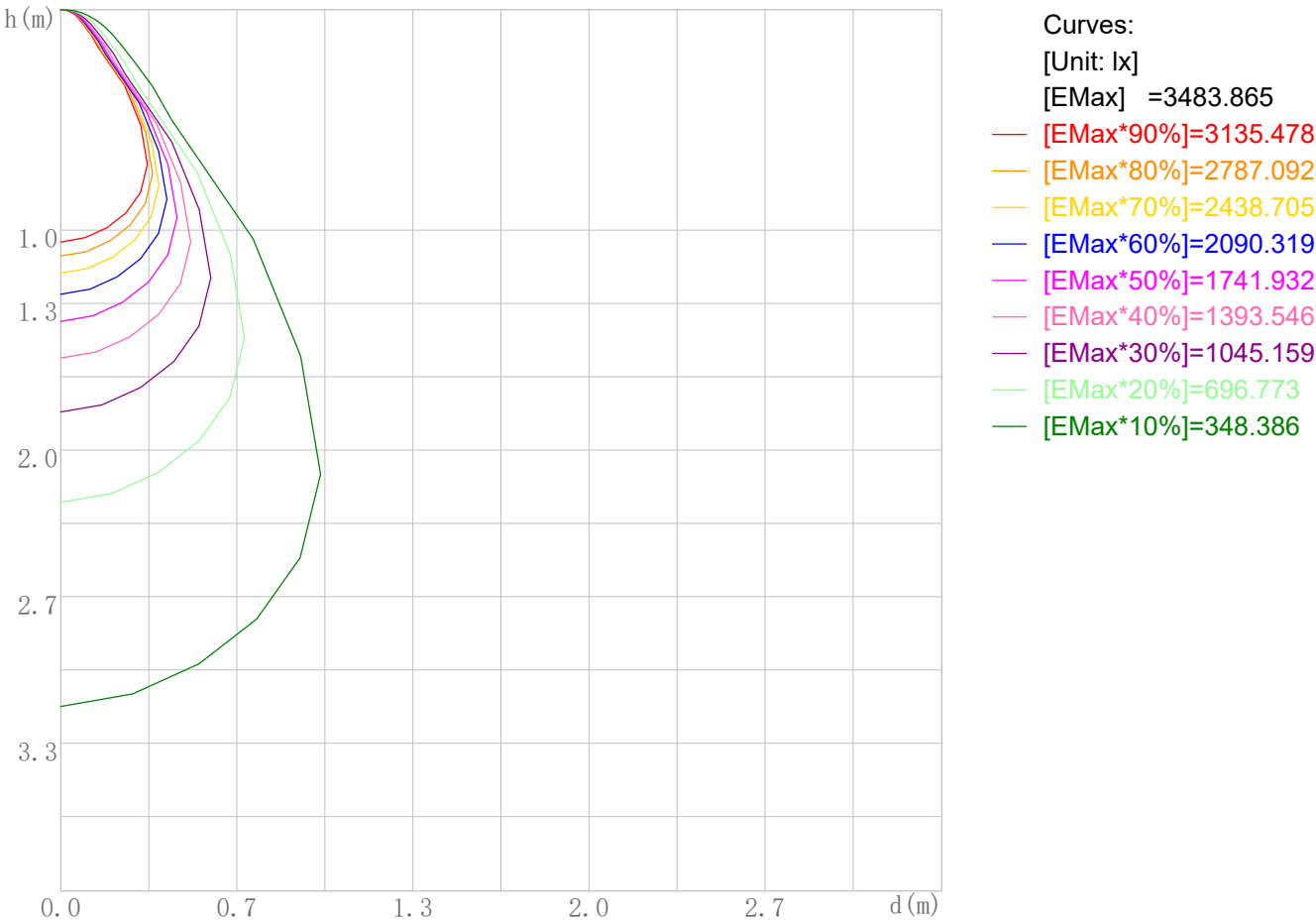
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

Space ISO Illuminance Curve

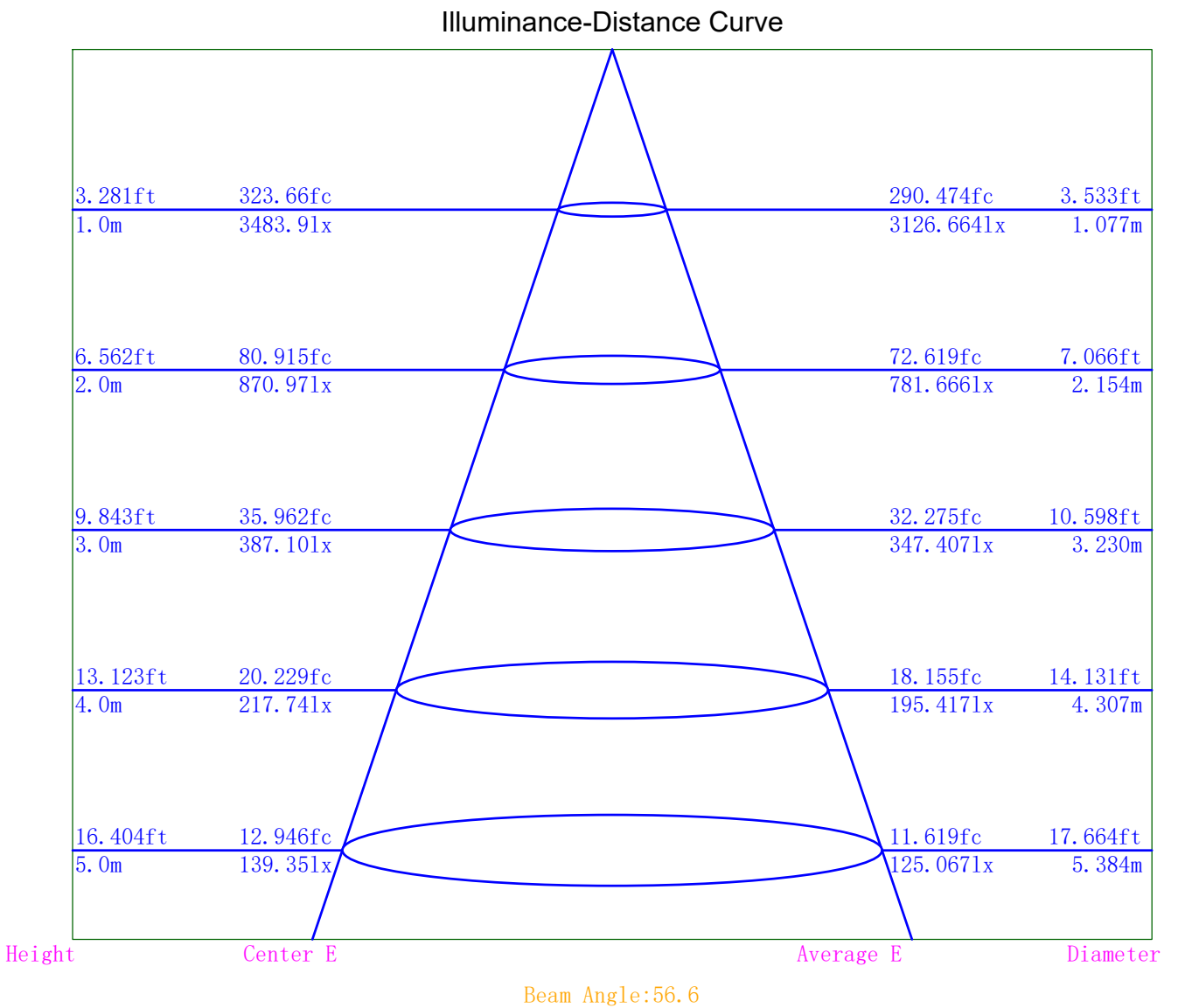


Space Plane Maximum Illuminance and @Angle:3483.86lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:3483.865cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11



Indoor Luminance Limiting Curves

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

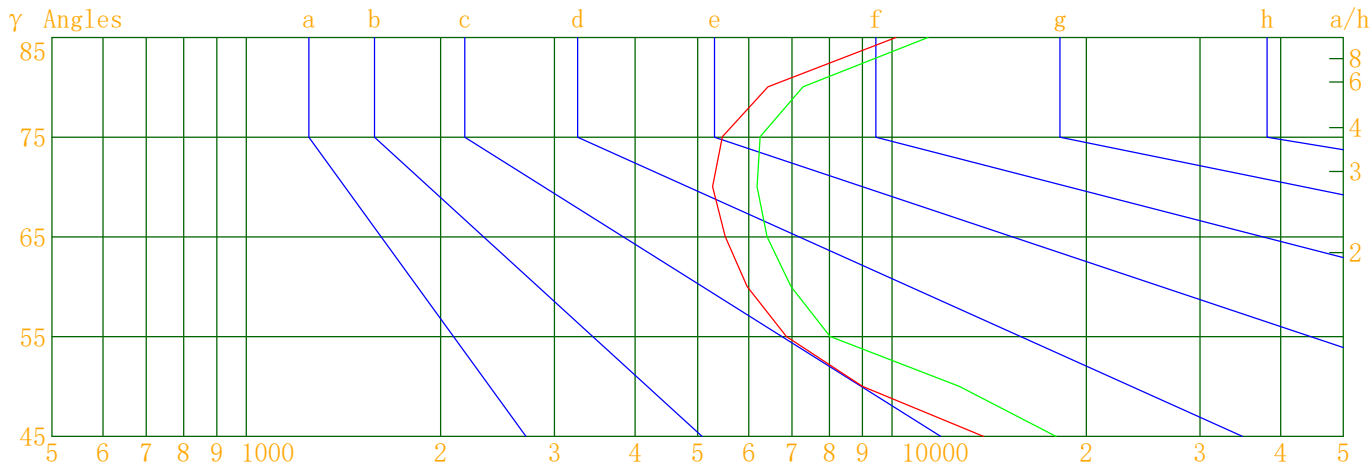
Glare Grade Table

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	13858	9003	6861	5968	5516	5274	5463	6426	10139
C90	17949	12722	8018	6975	6403	6180	6250	7281	11366

Luminance Limiting Curve



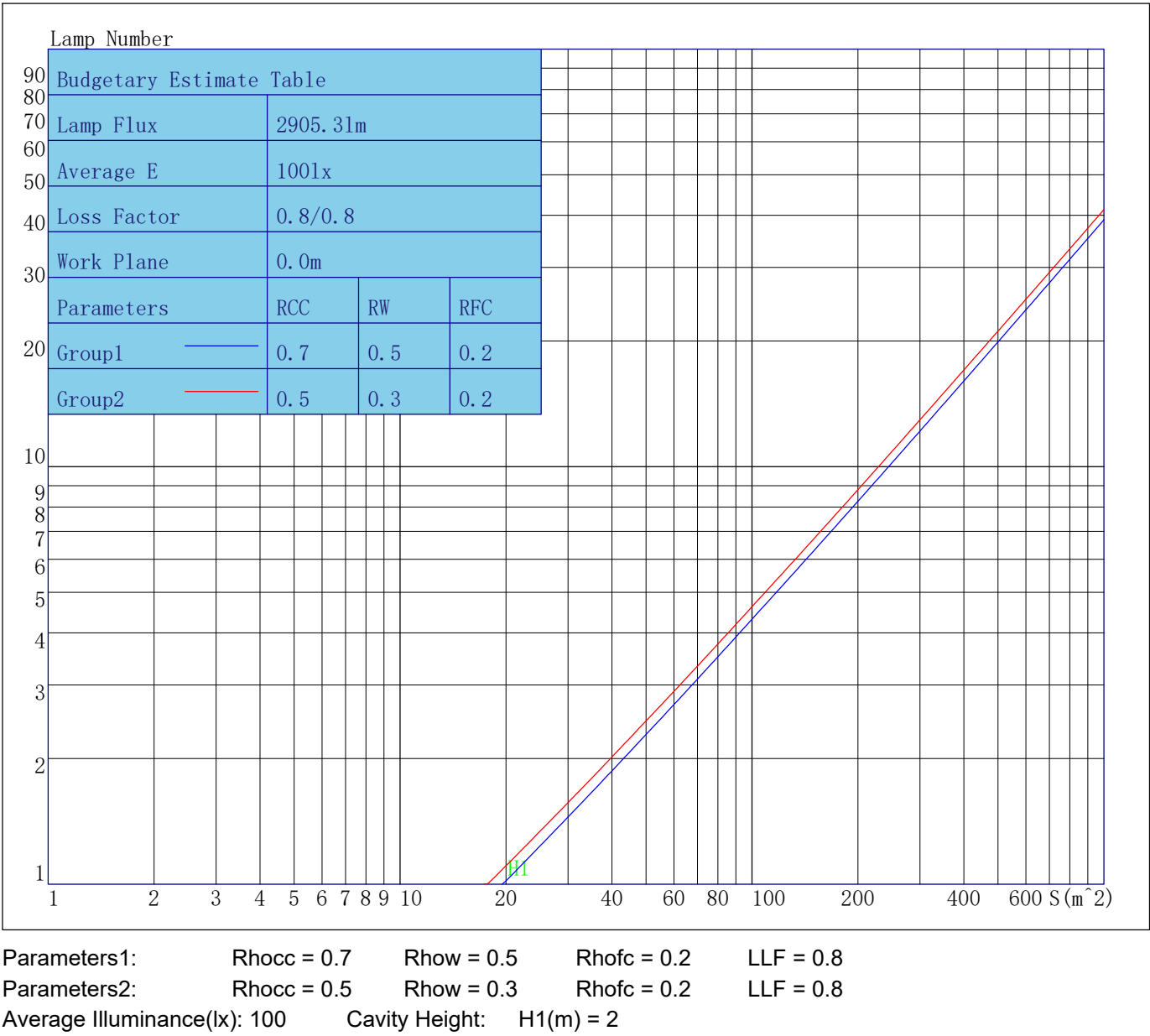
Luminous Size:Length(m)=0.110Width(m)=0.110Height(m)=0.000Area(m^2)=0.012100

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 4000K 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: 2022/08/11



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

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	100	99	98	96	95	94	93	91
2	107	102	98	94	105	100	96	93	97	94	91	93	91	89	90	88	86	85
3	102	95	90	86	99	94	89	85	91	87	84	88	85	82	85	83	81	79
4	97	89	83	79	95	88	83	79	85	81	77	83	79	76	81	78	75	74
5	92	83	78	73	90	82	77	73	80	76	72	78	74	71	77	73	70	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	64
7	83	74	68	64	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	65	61	58	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	62	58	55	54
10	72	62	57	53	71	62	56	53	61	56	53	60	55	52	59	55	52	51

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 4000K 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:2022/08/11

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	18.1	19.0	18.5	19.3	19.7	20.1	21.0	20.5	21.3	21.7
	Y=3H	18.1	18.9	18.5	19.3	19.7	20.0	20.8	20.5	21.2	21.7
	Y=4H	18.2	18.9	18.6	19.3	19.8	20.1	20.8	20.5	21.2	21.6
	Y=6H	18.3	18.9	18.7	19.4	19.8	20.1	20.8	20.6	21.2	21.7
	Y=8H	18.3	19.0	18.8	19.4	19.9	20.2	20.8	20.6	21.2	21.7
	Y=12H	18.5	19.0	18.9	19.5	20.0	20.2	20.8	20.7	21.2	21.7
X=4H	Y=2H	17.9	18.6	18.3	19.0	19.5	19.8	20.6	20.3	21.0	21.4
	Y=3H	18.0	18.6	18.5	19.1	19.5	19.9	20.5	20.4	20.9	21.4
	Y=4H	18.2	18.7	18.7	19.2	19.7	20.0	20.5	20.5	21.0	21.5
	Y=6H	18.4	18.8	18.9	19.3	19.9	20.1	20.6	20.6	21.0	21.6
	Y=8H	18.5	19.0	19.1	19.4	20.0	20.2	20.6	20.7	21.1	21.6
	Y=12H	18.8	19.1	19.3	19.6	20.2	20.4	20.7	20.9	21.2	21.8
X=8H	Y=4H	18.2	18.6	18.7	19.1	19.6	19.9	20.3	20.4	20.8	21.3
	Y=6H	18.5	18.8	19.1	19.4	19.9	20.1	20.4	20.7	21.0	21.5
	Y=8H	18.8	19.0	19.3	19.6	20.1	20.3	20.6	20.9	21.1	21.7
	Y=12H	19.1	19.3	19.7	19.9	20.5	20.6	20.8	21.2	21.4	22.0
X=12H	Y=4H	18.1	18.5	18.7	19.0	19.5	19.9	20.2	20.4	20.7	21.3
	Y=6H	18.5	18.8	19.1	19.3	19.9	20.1	20.4	20.7	20.9	21.5
	Y=8H	18.8	19.1	19.4	19.6	20.2	20.4	20.6	20.9	21.1	21.8
Variations with the objverver 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		0.4/-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	3483.86	3483.86	3483.86	3483.86
γ 5.0	3399.22	3431.48	3420.29	3320.44
γ 10.0	3214.35	3267.42	3243.34	3099.43
γ 15.0	2957.12	3065.79	3000.78	2823.86
γ 20.0	2598.04	2776.93	2707.58	2468.55
γ 25.0	2080.28	2365.62	2311.37	1955.40
γ 30.0	1324.81	1758.03	1657.80	1202.67
γ 35.0	684.53	1021.78	898.61	590.34
γ 40.0	194.54	427.76	291.25	150.50
γ 45.0	118.57	153.57	117.55	88.93
γ 50.0	70.02	98.95	71.66	49.58
γ 55.0	47.62	55.64	40.44	36.33
γ 60.0	36.10	42.20	33.24	29.84
γ 65.0	28.21	32.74	28.00	25.16
γ 70.0	21.83	25.58	23.60	21.03
γ 75.0	17.11	19.57	18.99	16.71
γ 80.0	13.50	15.30	15.33	12.97
γ 85.0	10.69	11.99	11.91	10.43
γ 90.0	8.44	9.55	9.24	8.66
γ 95.0	7.33	7.85	8.38	7.66
γ 100.0	6.85	6.91	7.23	6.73
γ 105.0	6.05	6.15	6.34	6.17
γ 110.0	6.13	5.81	6.14	6.20
γ 115.0	5.96	5.88	6.54	6.51
γ 120.0	6.74	6.03	7.00	7.24
γ 125.0	7.74	7.22	7.80	8.73
γ 130.0	9.41	8.54	9.18	10.29
γ 135.0	11.08	9.92	10.87	11.64
γ 140.0	12.67	11.77	12.60	13.71
γ 145.0	14.66	13.26	14.46	14.97
γ 150.0	16.60	14.98	16.19	16.79
γ 155.0	17.67	16.51	18.13	17.89
γ 160.0	18.73	17.80	19.07	19.20
γ 165.0	19.86	19.29	20.43	20.14
γ 170.0	21.17	20.56	21.37	21.09
γ 175.0	21.98	21.56	22.24	22.14
γ 180.0	22.36	22.36	22.36	22.36