

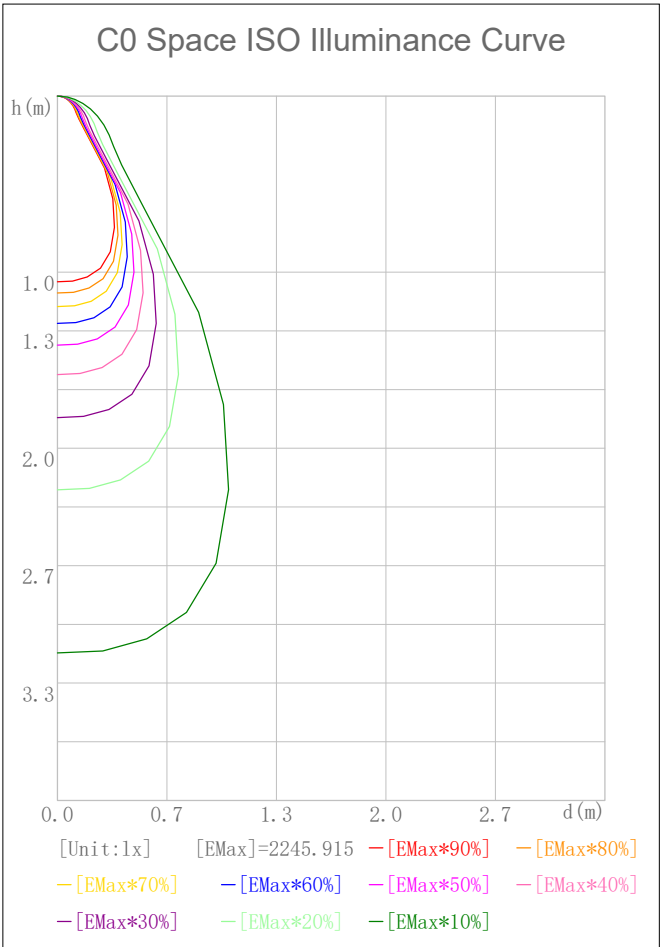
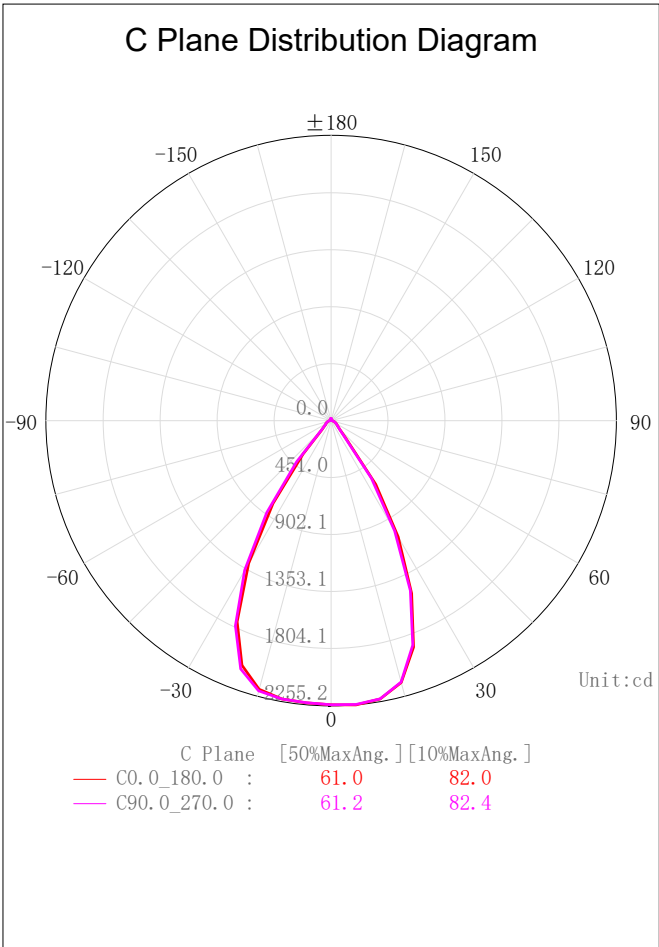
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-25-XX-01 3000K RA90 60D 白色		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/06
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):0.083m*0.083m*0.000m		Lum. Area (m2):0.005	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

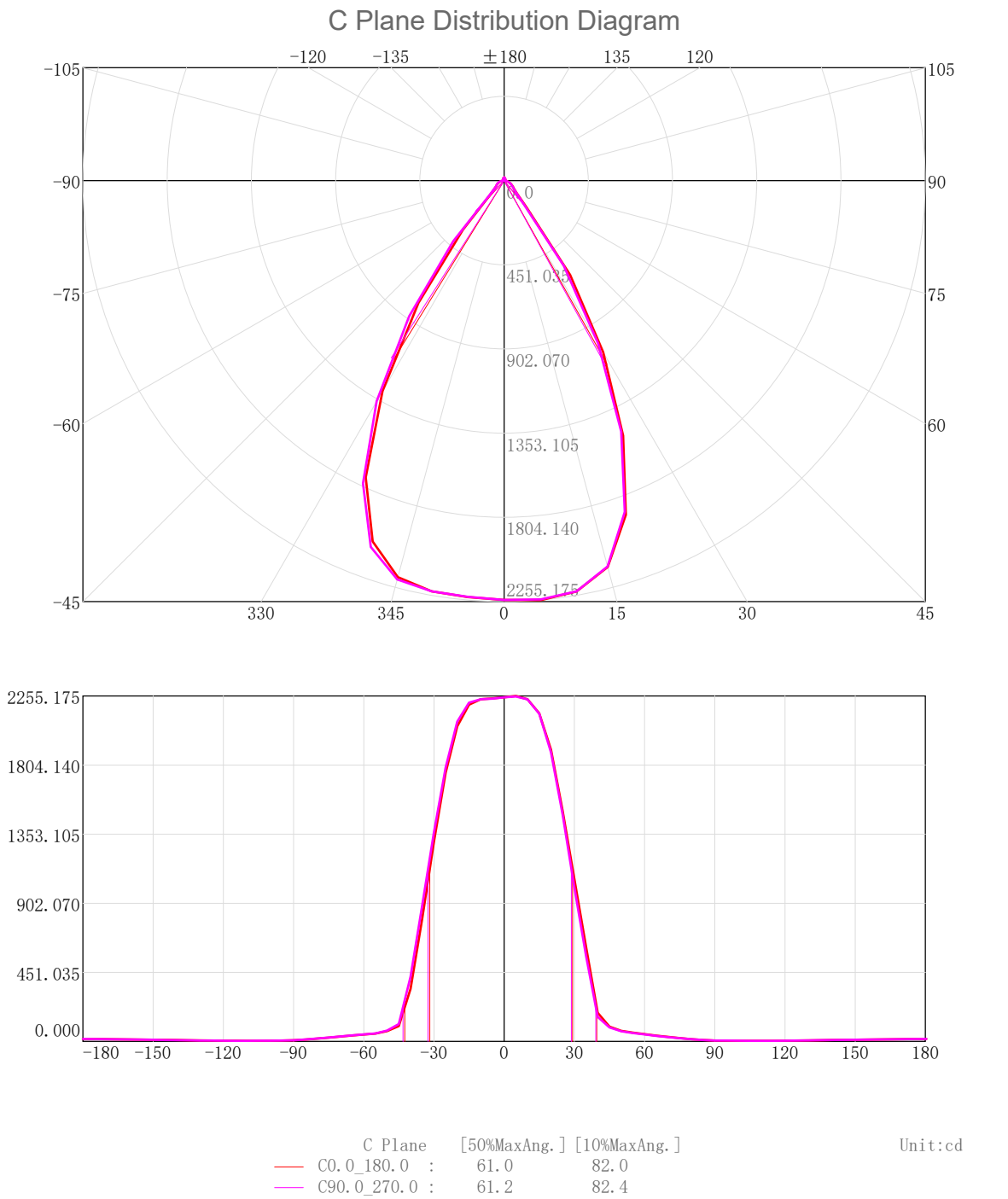
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2276.480	Luminary Flux(lm): 2276.481	Field Angle(10%Imax): 82.0(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2230.106lm 97.96%	
Rated Voltage(V):	Luminary EER(lm/W): 95.490	Up Lumens&Percent: 46.375lm 2.04%	
Tested Power(W): 23.840	Max. Candela(cd): 2255.175	S/MH: C0_a180=0.975 C90_270=0.979	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.8, 0.102, 0.966	Beam Angle(50%Imax): 61.0(°)	ErP Φ use(90°): 2057.183lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-31.7°, Right=29.3°	IRF(%): 229.240	



2D Plane Light Intensity Distribution Curve

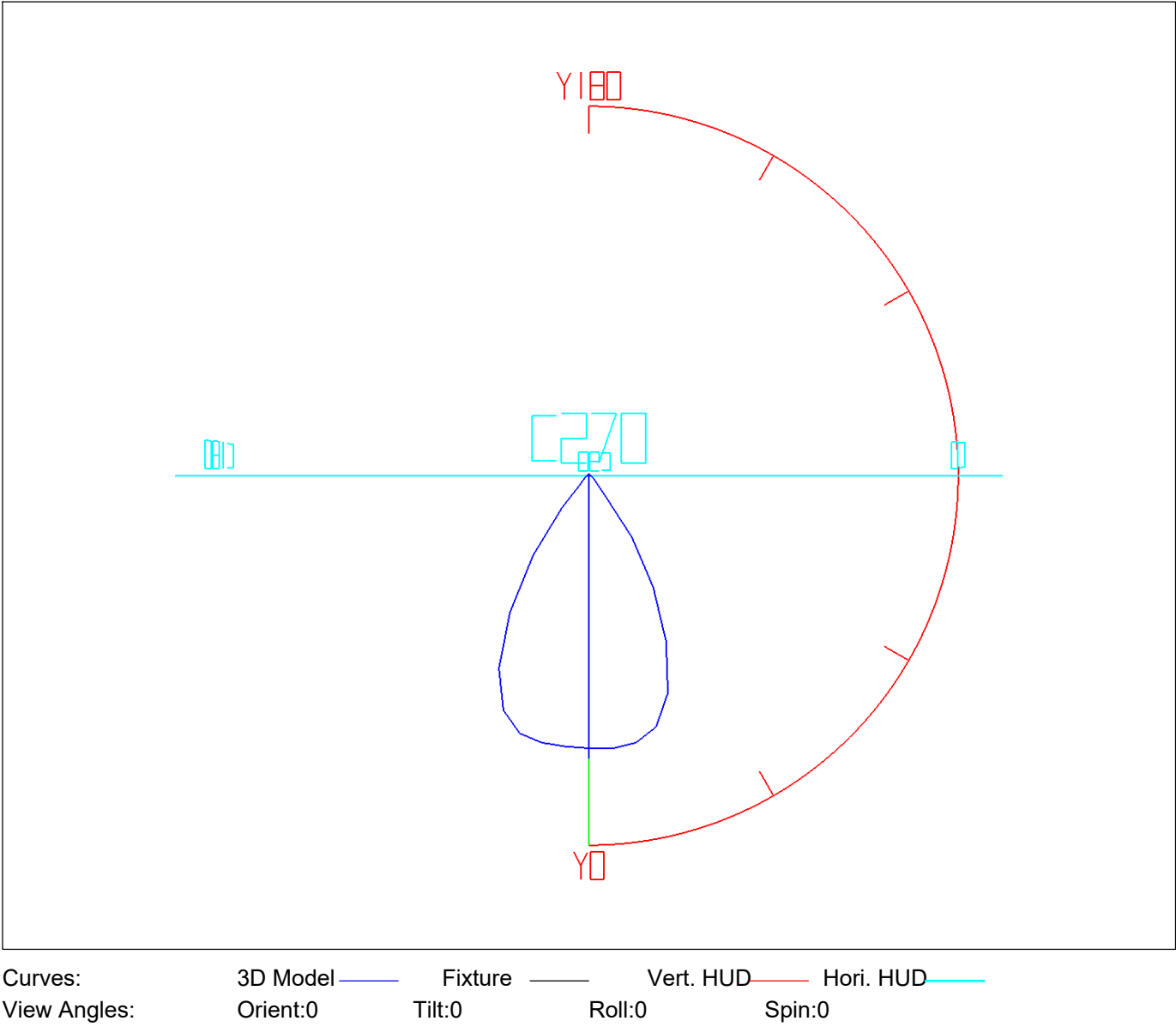
Lum. Name:DL51-25-XX-01 3000K RA90 60D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/06



3D Light Intensity Distribution Modal

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06

3D Light Intensity Distribution Modal

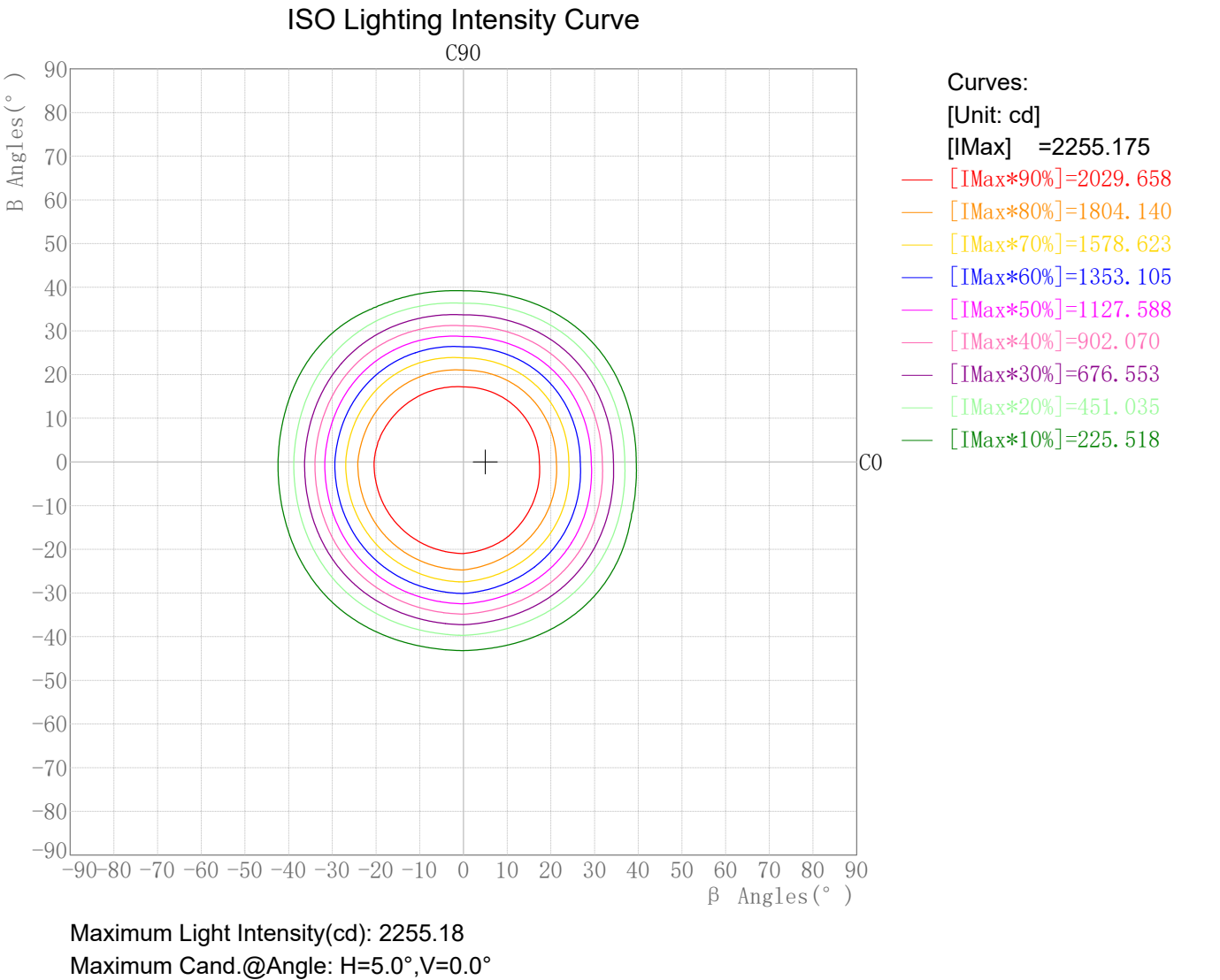


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	53.70	53.70	2.36	2.36
5.0-10.0	160.25	213.95	7.04	9.40
10.0-15.0	261.39	475.33	11.48	20.88
15.0-20.0	342.59	817.92	15.05	35.93
20.0-25.0	379.36	1197.28	16.66	52.59
25.0-30.0	356.39	1553.68	15.66	68.25
30.0-35.0	279.51	1833.19	12.28	80.53
35.0-40.0	165.72	1998.91	7.28	87.81
40.0-45.0	70.23	2069.13	3.08	90.89
45.0-50.0	34.30	2103.43	1.51	92.40
50.0-55.0	26.85	2130.28	1.18	93.58
55.0-60.0	23.38	2153.66	1.03	94.60
60.0-65.0	20.70	2174.36	0.91	95.51
65.0-70.0	17.63	2192.00	0.77	96.29
70.0-75.0	14.34	2206.33	0.63	96.92
75.0-80.0	10.92	2217.25	0.48	97.40
80.0-85.0	7.73	2224.98	0.34	97.74
85.0-90.0	5.12	2230.11	0.23	97.96
90.0-95.0	3.58	2233.68	0.16	98.12
95.0-100.0	2.99	2236.67	0.13	98.25
100.0-105.0	2.67	2239.34	0.12	98.37
105.0-110.0	2.42	2241.76	0.11	98.47
110.0-115.0	2.32	2244.08	0.10	98.58
115.0-120.0	2.40	2246.48	0.11	98.68
120.0-125.0	2.63	2249.11	0.12	98.80
125.0-130.0	2.85	2251.96	0.13	98.92
130.0-135.0	3.08	2255.04	0.14	99.06
135.0-140.0	3.28	2258.33	0.14	99.20
140.0-145.0	3.36	2261.68	0.15	99.35
145.0-150.0	3.31	2264.99	0.15	99.50
150.0-155.0	3.10	2268.09	0.14	99.63
155.0-160.0	2.77	2270.87	0.12	99.75
160.0-165.0	2.32	2273.19	0.10	99.86
165.0-170.0	1.77	2274.96	0.08	99.93
170.0-175.0	1.13	2276.09	0.05	99.98
175.0-180.0	0.39	2276.48	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL51-25-XX-01 3000K RA90 60D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/06

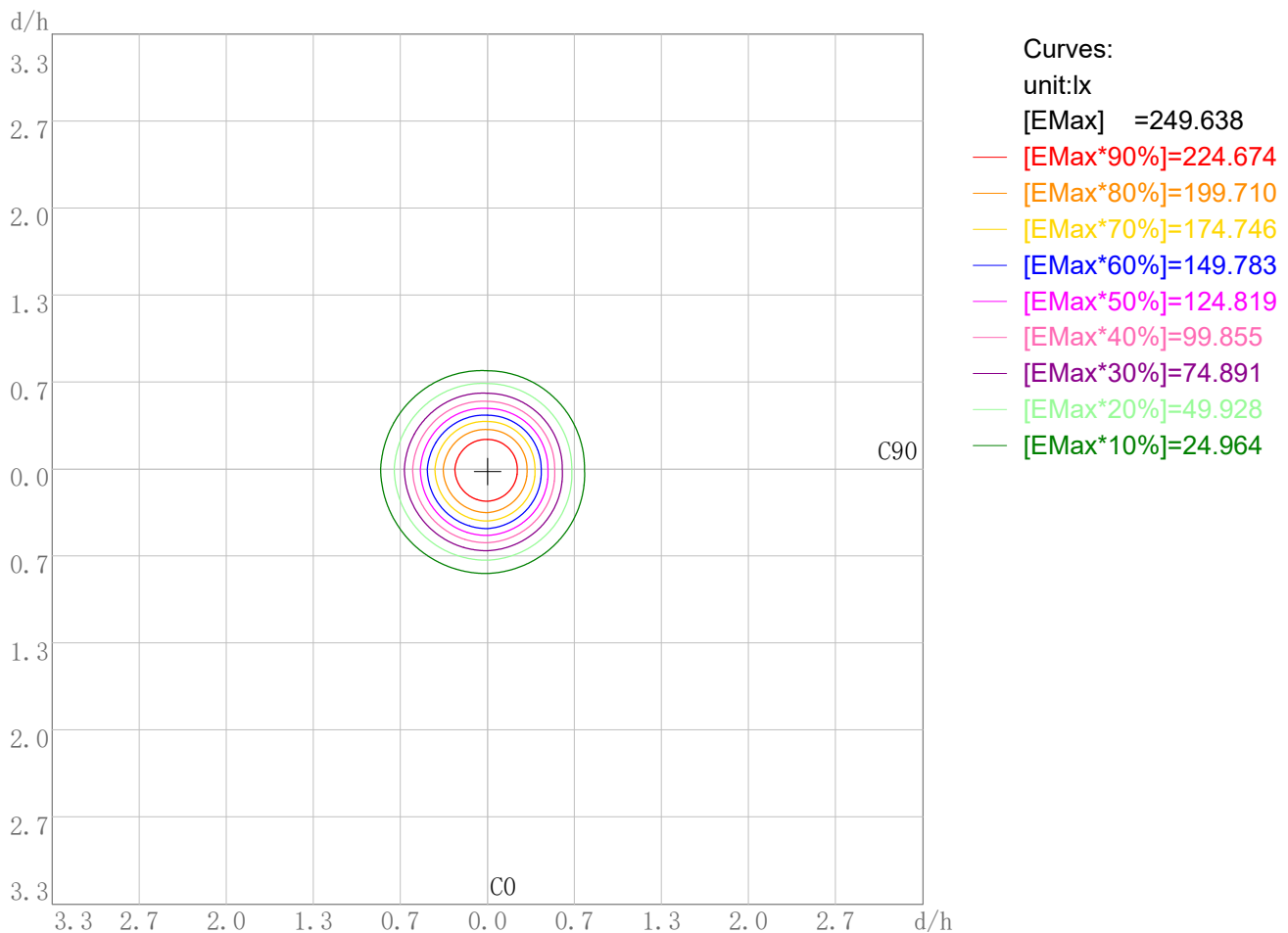


**Photometric Filename:DL51-25-XX-01 3000K RA90 60D 白色.IES**

## Plane ISO-Illuminance Diagram

Lum. Name: DL51-25-XX-01 3000K RA90 60D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine: GON-2000	Test Date: 2022/08/06

## Plane ISO-Illuminance Curve

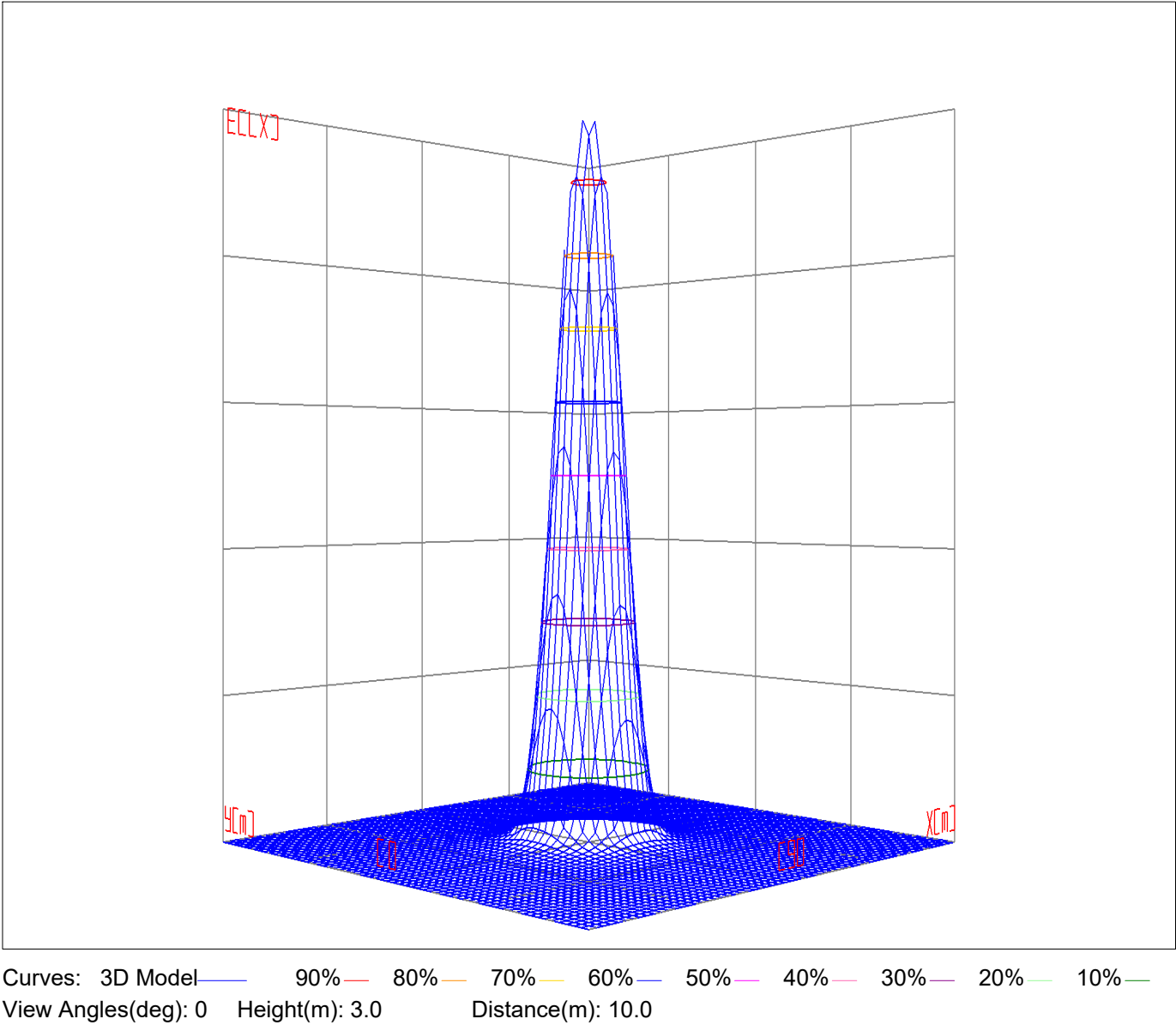


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 249.64  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06

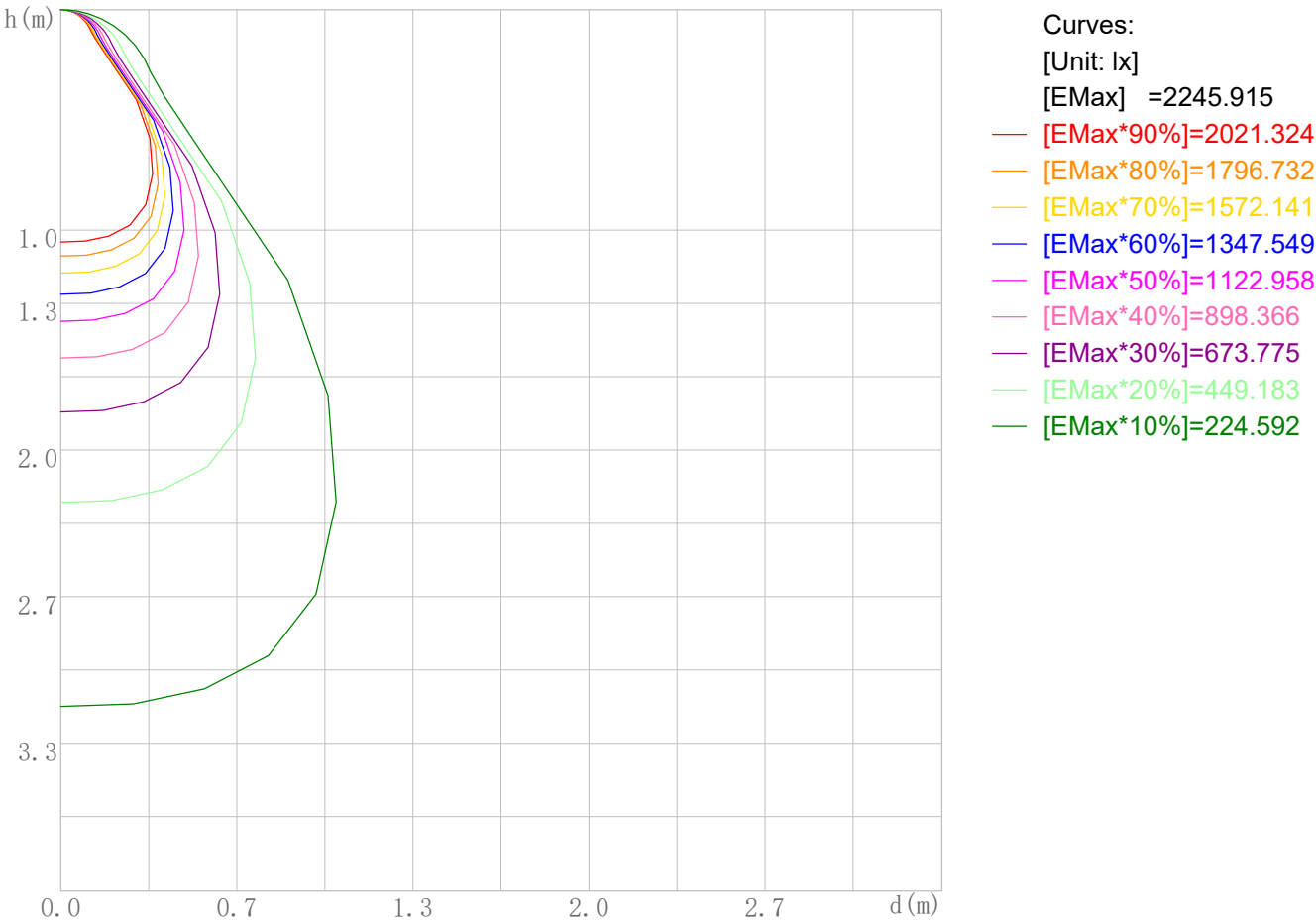
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06

Space ISO Illuminance Curve

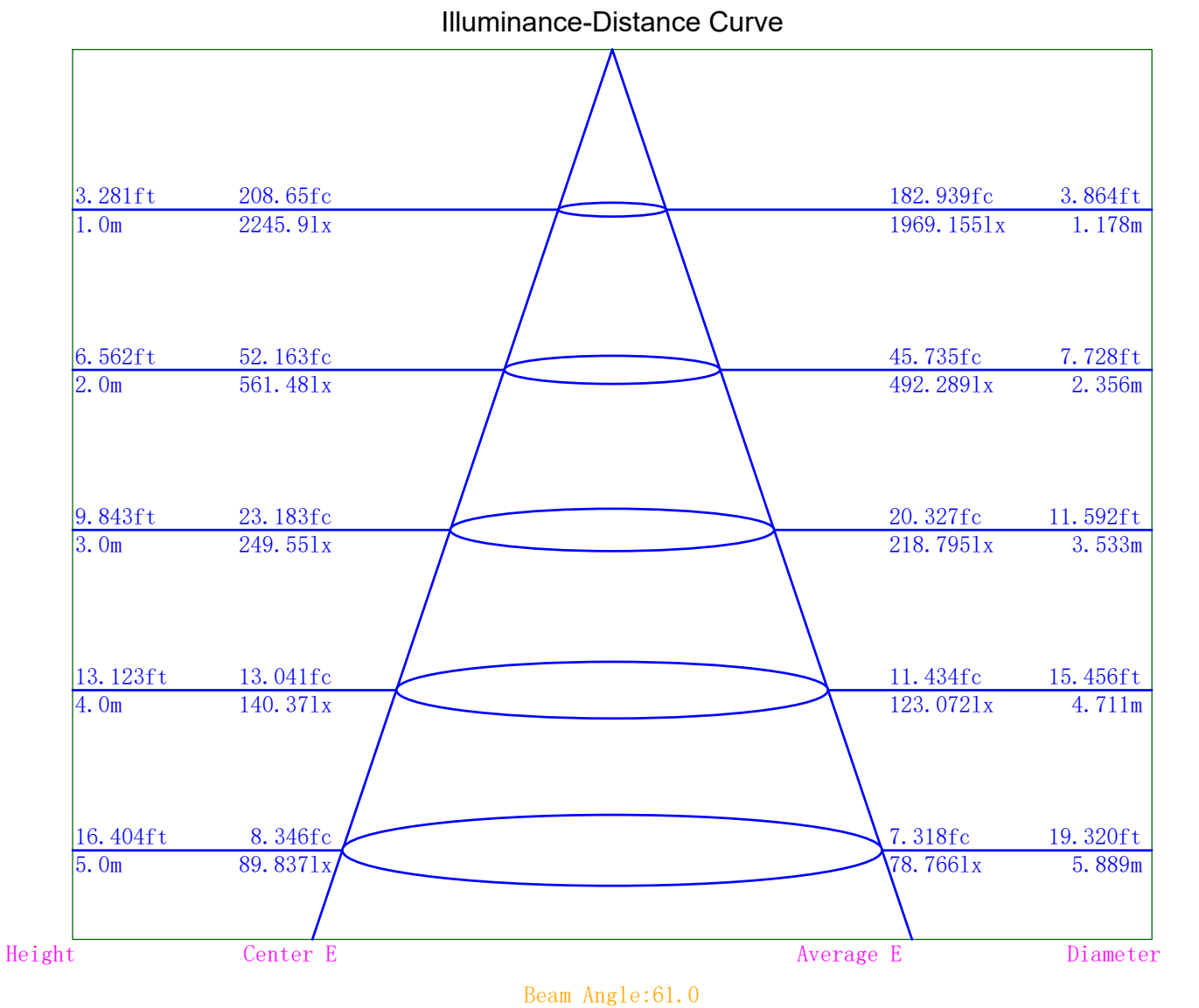


Space Plane Maximum Illuminance and @Angle:2245.92lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:2255.175cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06



Indoor Luminance Limiting Curves

Lum. Name:DL51-25-XX-01 3000K RA90 60D 白色	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/06

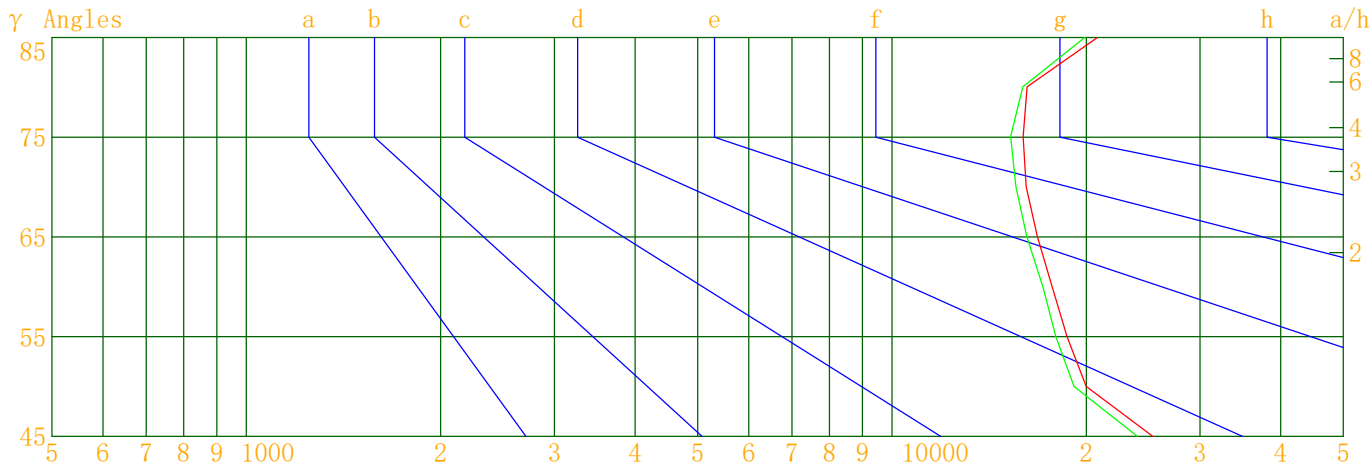
Glare Grade Table

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	25351	19992	18663	17706	16796	16137	15962	16189	20801
C90	24000	19140	17939	17120	16170	15558	15264	15943	19885

Luminance Limiting Curve



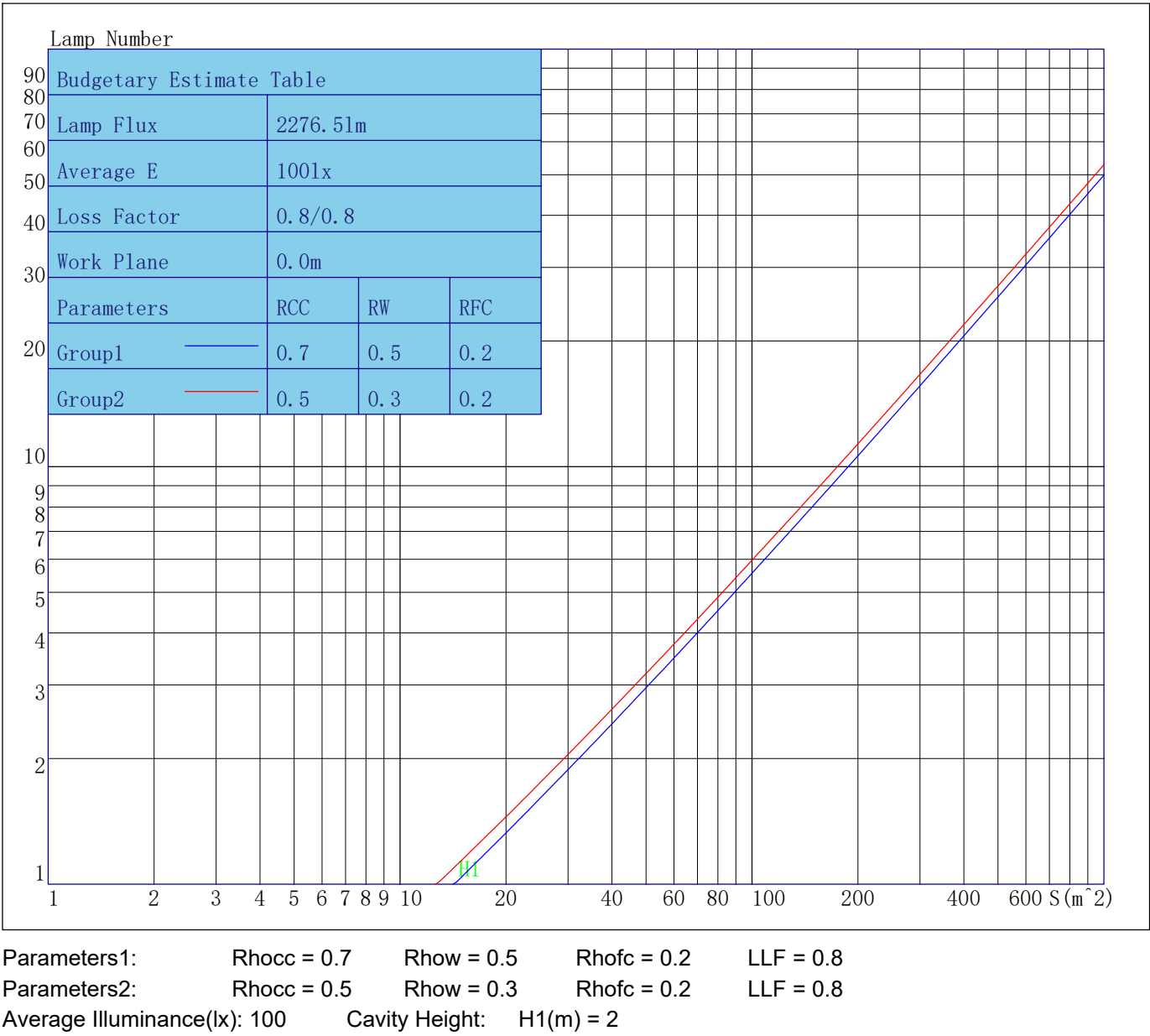
Luminous Size:Length(m)=-0.083Width(m)=-0.083Height(m)=0.000Area(m^2)=0.005411

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-25-XX-01 3000K RA90 60D 白色	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/06



Indoor Coefficient of Utilization Table

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06

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	112	109	107	104	110	107	105	102	103	101	99	98	97	95	95	93	92	90
2	106	101	97	93	104	99	95	92	96	92	90	92	90	87	89	87	85	83
3	101	94	89	84	98	92	87	83	89	85	82	87	83	80	84	81	79	77
4	95	87	82	77	93	86	81	77	84	79	75	81	77	74	79	76	73	72
5	90	82	75	71	89	81	75	71	78	74	70	77	72	69	75	71	68	67
6	86	76	70	66	84	75	70	65	74	69	65	72	68	64	71	67	64	62
7	81	72	65	61	80	71	65	61	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
9	74	64	58	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48

Unified Glare Rating Table

Lum. Name:DL51-25-XX-01 3000K RA90 60D 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:2022/08/06

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	21.0	22.0	21.4	22.3	22.7	20.5	21.5	20.9	21.9	22.3
	21.3	22.2	21.7	22.6	23.0	20.9	21.8	21.3	22.2	22.6
	21.5	22.3	22.0	22.7	23.2	21.1	22.0	21.6	22.3	22.8
	21.7	22.5	22.2	22.9	23.3	21.3	22.1	21.8	22.5	23.0
	21.8	22.5	22.3	23.0	23.4	21.4	22.2	21.9	22.6	23.1
	21.9	22.6	22.4	23.0	23.5	21.6	22.2	22.0	22.7	23.1
X=4H    Y=2H	20.9	21.8	21.4	22.1	22.6	20.5	21.3	21.0	21.7	22.2
	21.4	22.1	21.9	22.6	23.0	21.1	21.8	21.5	22.2	22.7
	21.8	22.4	22.3	22.9	23.4	21.4	22.0	21.9	22.5	23.0
	22.1	22.7	22.6	23.2	23.7	21.8	22.3	22.3	22.8	23.3
	22.3	22.8	22.8	23.3	23.8	22.0	22.5	22.5	23.0	23.5
	22.5	22.9	23.0	23.4	24.0	22.2	22.6	22.7	23.1	23.6
X=8H    Y=4H	21.9	22.4	22.4	22.8	23.4	21.5	22.0	22.0	22.5	23.0
	22.4	22.7	22.9	23.3	23.9	22.0	22.4	22.6	23.0	23.5
	22.6	23.0	23.2	23.5	24.1	22.3	22.7	22.9	23.2	23.8
	22.9	23.2	23.5	23.8	24.4	22.6	22.9	23.2	23.5	24.1
X=12H    Y=4H	21.9	22.3	22.4	22.8	23.3	21.5	21.9	22.0	22.5	23.0
	22.4	22.7	23.0	23.3	23.8	22.1	22.4	22.7	22.9	23.5
	22.7	23.0	23.3	23.6	24.2	22.4	22.7	23.0	23.3	23.9
Variations with the objerver position at spacings										
S=1.0H	0.3/-0.3					0.3/-0.3				
S=1.5H	0.6/-0.6					0.6/-0.6				
S=2.0H	0.7/-0.8					0.7/-0.8				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.6					1.7				

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	2245.92	2245.92	2245.92	2245.92
γ 5.0	2255.18	2251.63	2239.19	2237.46
γ 10.0	2234.07	2233.32	2233.54	2233.88
γ 15.0	2142.40	2138.97	2198.23	2211.23
γ 20.0	1904.63	1887.45	2056.86	2087.89
γ 25.0	1506.75	1482.56	1753.84	1788.32
γ 30.0	1060.72	1006.49	1301.93	1364.23
γ 35.0	615.97	557.10	799.62	886.41
γ 40.0	186.88	160.54	343.61	422.89
γ 45.0	96.99	91.82	100.49	113.90
γ 50.0	69.53	66.57	68.11	71.59
γ 55.0	57.92	55.67	51.60	53.00
γ 60.0	47.90	46.32	45.38	46.76
γ 65.0	38.40	36.97	38.86	40.05
γ 70.0	29.86	28.79	32.16	33.42
γ 75.0	22.35	21.38	25.16	26.27
γ 80.0	15.21	14.98	18.44	19.46
γ 85.0	9.81	9.38	12.76	13.77
γ 90.0	6.51	6.40	7.93	8.30
γ 95.0	5.43	5.86	5.86	5.97
γ 100.0	4.78	4.97	5.39	5.70
γ 105.0	4.60	4.67	4.82	4.97
γ 110.0	4.35	4.35	4.76	4.51
γ 115.0	4.47	4.52	5.18	4.53
γ 120.0	5.16	5.32	5.25	5.09
γ 125.0	6.25	6.36	6.14	5.94
γ 130.0	7.05	7.23	6.89	6.64
γ 135.0	8.25	8.72	8.27	7.91
γ 140.0	9.55	9.81	9.41	8.99
γ 145.0	10.91	10.77	10.87	10.21
γ 150.0	11.94	11.84	11.78	11.51
γ 155.0	12.81	12.89	12.87	12.46
γ 160.0	13.77	13.81	13.72	13.44
γ 165.0	14.61	14.70	14.44	14.22
γ 170.0	15.53	15.48	15.13	15.42
γ 175.0	16.45	16.16	15.81	15.96
γ 180.0	16.64	16.64	16.64	16.64