

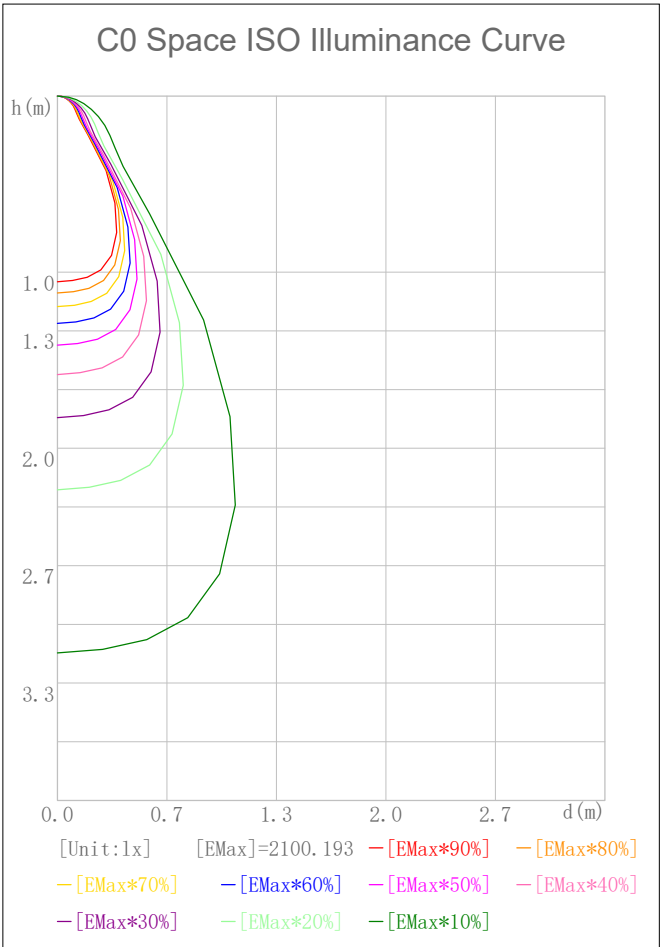
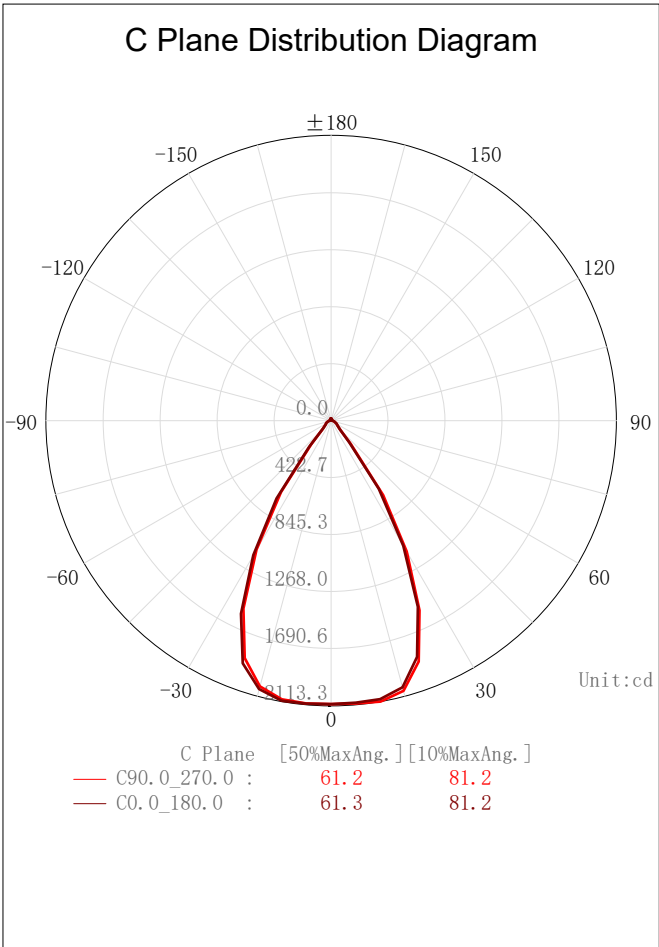
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-25-XX-01 2700K RA90 60D 白色		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/04
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

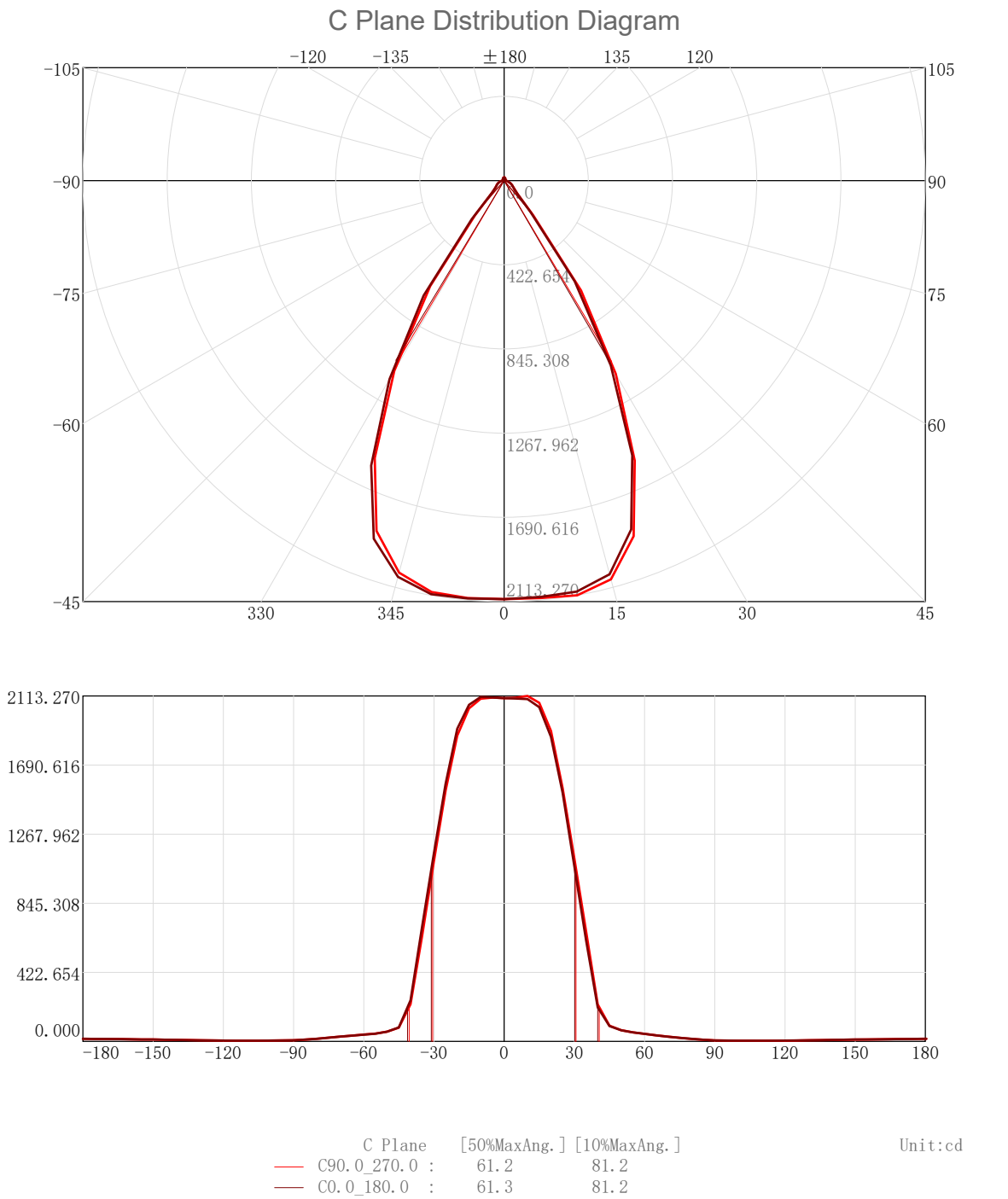
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2137.680	Luminary Flux(lm): 2137.682	Field Angle(10%Imax): 81.2(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2089.386lm 97.74%	
Rated Voltage(V):	Luminary EER(lm/W): 88.297	Up Lumens&Percent: 48.296lm 2.26%	
Tested Power(W): 24.210	Max. Candela(cd): 2113.270	S/MH: C0_a180=0.984 C90_270=0.982	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=10.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.8, 0.104, 0.967	Beam Angle(50%Imax): 61.2(°)	ErP Φ use(90°): 1946.547lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-30.5°, Right=30.7°	IRF(%): 223.816	



2D Plane Light Intensity Distribution Curve

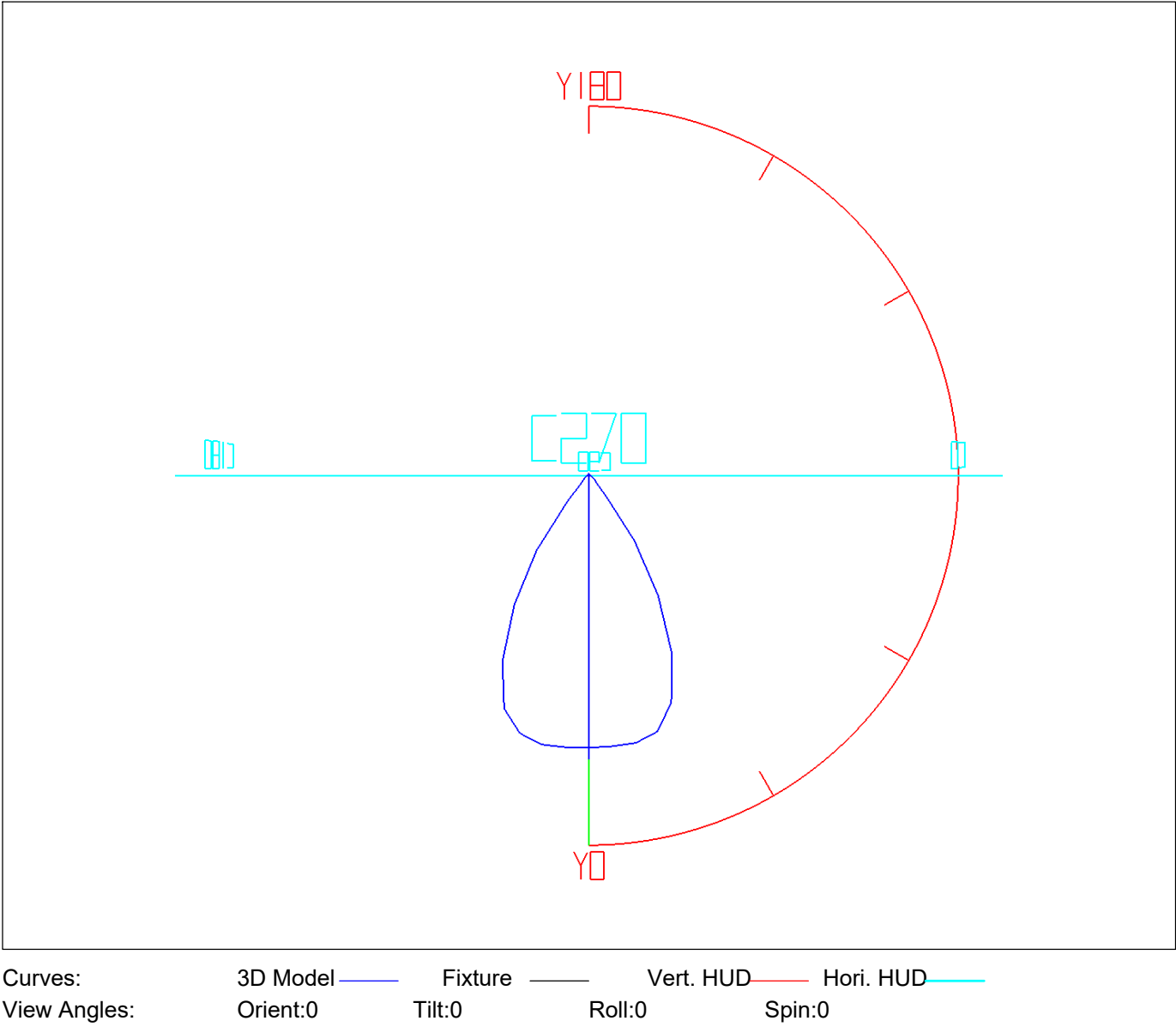
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Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/04



3D Light Intensity Distribution Modal

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04

3D Light Intensity Distribution Modal

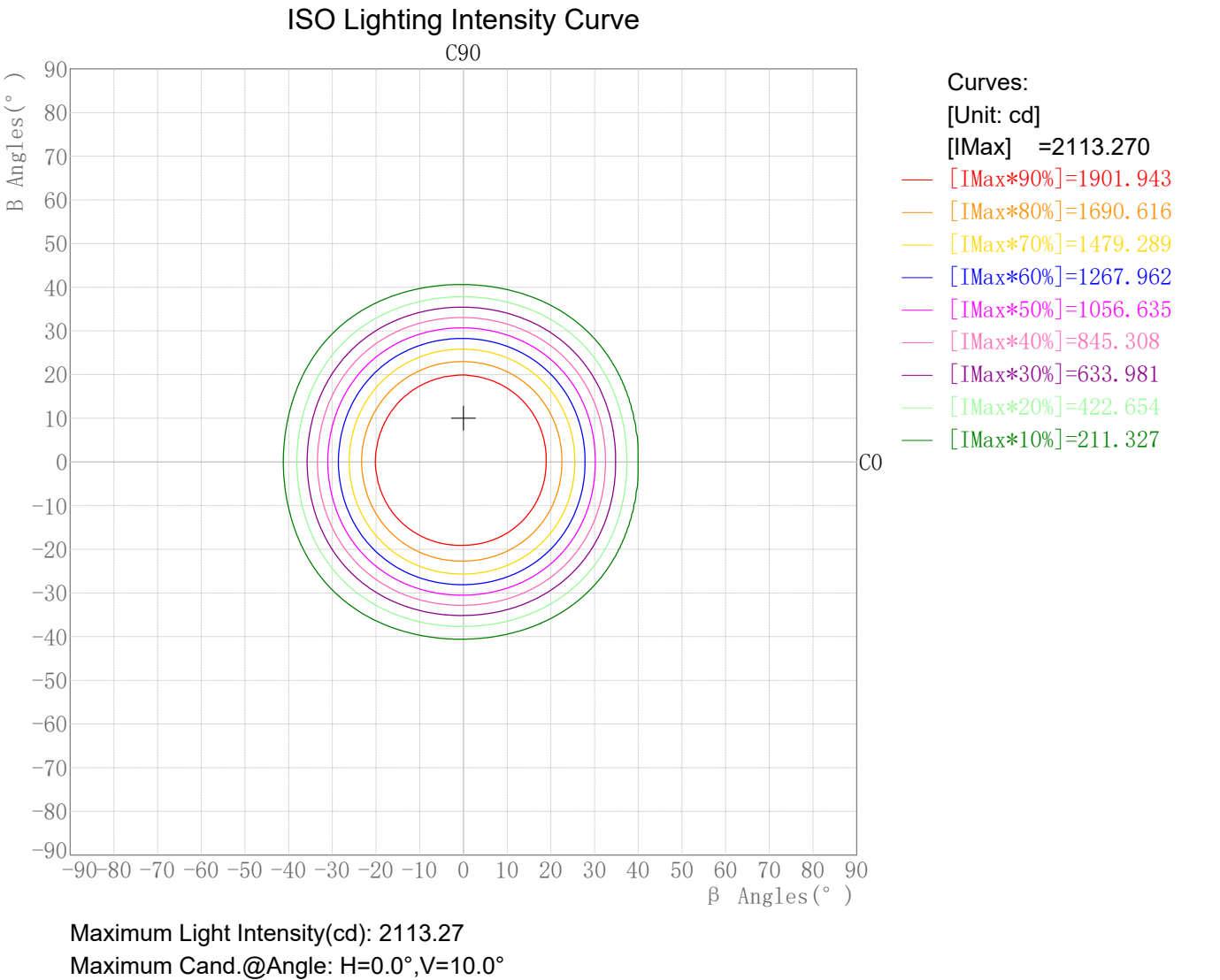


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	50.23	50.23	2.35	2.35
5.0-10.0	150.41	200.65	7.04	9.39
10.0-15.0	246.53	447.17	11.53	20.92
15.0-20.0	324.68	771.85	15.19	36.11
20.0-25.0	360.05	1131.90	16.84	52.95
25.0-30.0	336.31	1468.22	15.73	68.68
30.0-35.0	260.86	1729.07	12.20	80.89
35.0-40.0	148.41	1877.48	6.94	87.83
40.0-45.0	59.20	1936.68	2.77	90.60
45.0-50.0	31.36	1968.04	1.47	92.06
50.0-55.0	25.36	1993.40	1.19	93.25
55.0-60.0	22.32	2015.72	1.04	94.29
60.0-65.0	19.80	2035.52	0.93	95.22
65.0-70.0	16.89	2052.40	0.79	96.01
70.0-75.0	13.78	2066.18	0.64	96.66
75.0-80.0	10.57	2076.75	0.49	97.15
80.0-85.0	7.58	2084.34	0.35	97.50
85.0-90.0	5.05	2089.39	0.24	97.74
90.0-95.0	3.69	2093.08	0.17	97.91
95.0-100.0	3.21	2096.28	0.15	98.06
100.0-105.0	2.86	2099.14	0.13	98.20
105.0-110.0	2.65	2101.79	0.12	98.32
110.0-115.0	2.56	2104.34	0.12	98.44
115.0-120.0	2.62	2106.96	0.12	98.56
120.0-125.0	2.78	2109.74	0.13	98.69
125.0-130.0	3.00	2112.74	0.14	98.83
130.0-135.0	3.21	2115.95	0.15	98.98
135.0-140.0	3.37	2119.33	0.16	99.14
140.0-145.0	3.44	2122.77	0.16	99.30
145.0-150.0	3.39	2126.16	0.16	99.46
150.0-155.0	3.13	2129.29	0.15	99.61
155.0-160.0	2.76	2132.05	0.13	99.74
160.0-165.0	2.33	2134.38	0.11	99.85
165.0-170.0	1.79	2136.17	0.08	99.93
170.0-175.0	1.12	2137.29	0.05	99.98
175.0-180.0	0.39	2137.68	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

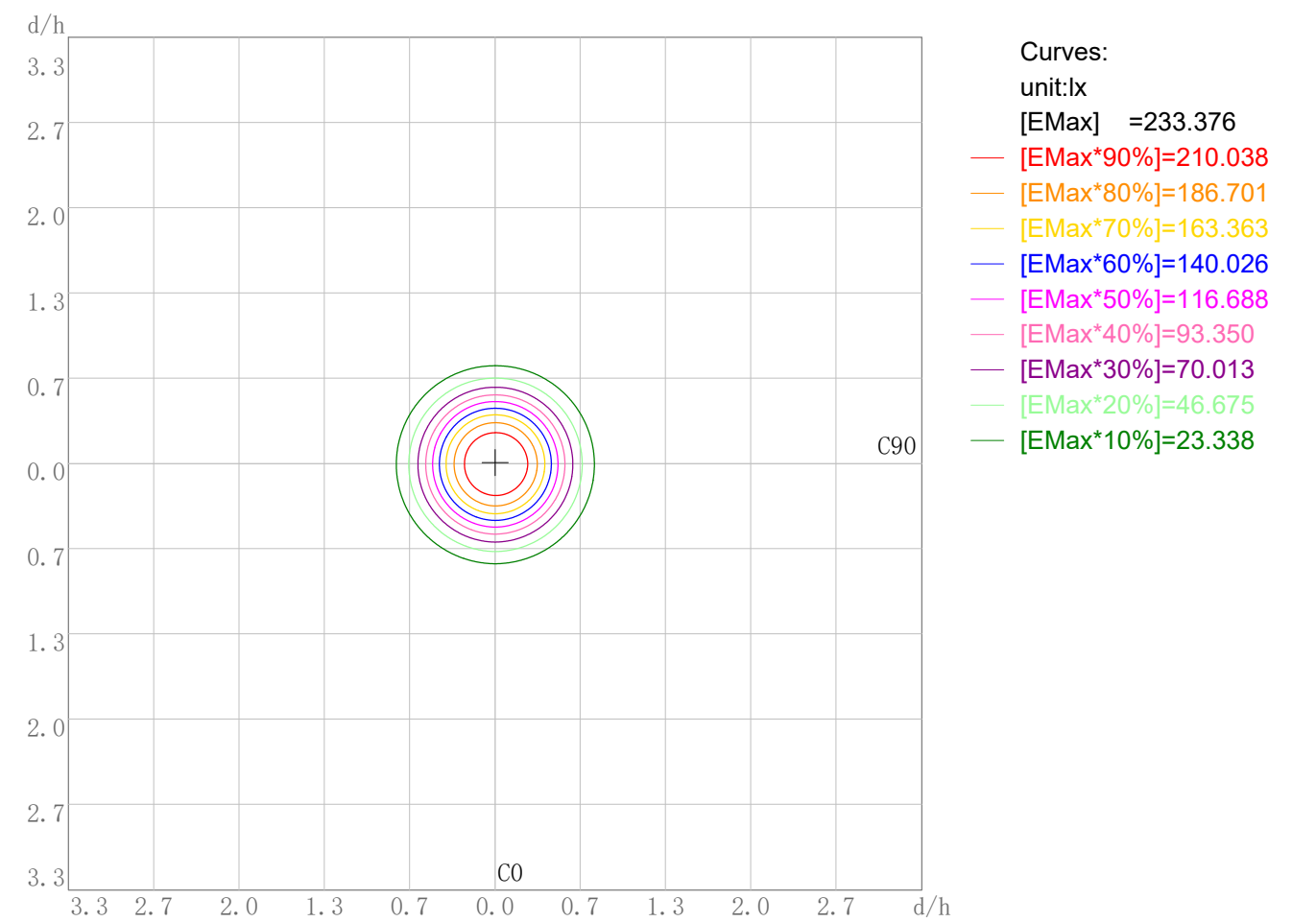
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Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/04



Plane ISO-Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K 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: 2022/08/04

Plane ISO-Illuminance Curve

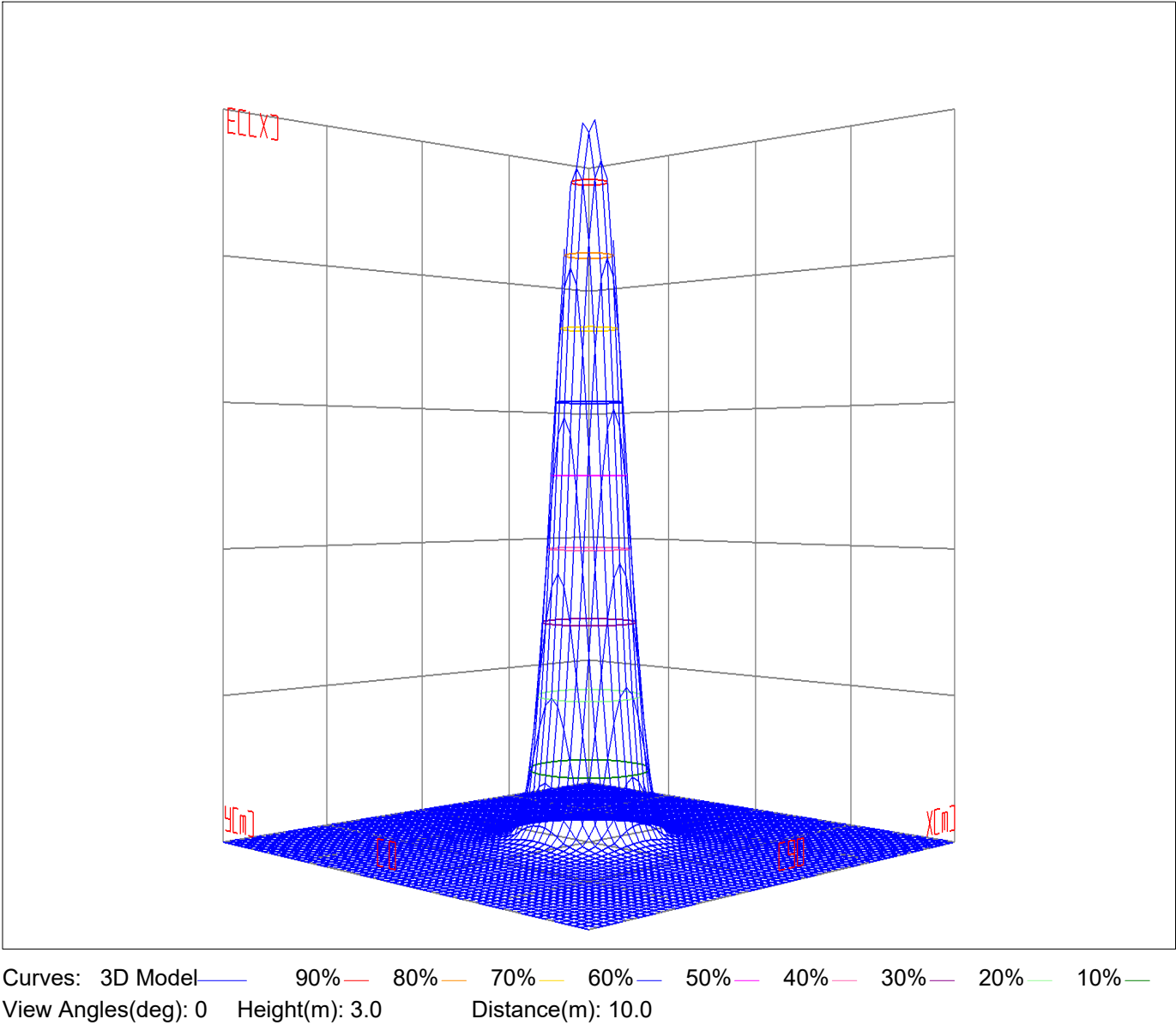


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 233.38
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04

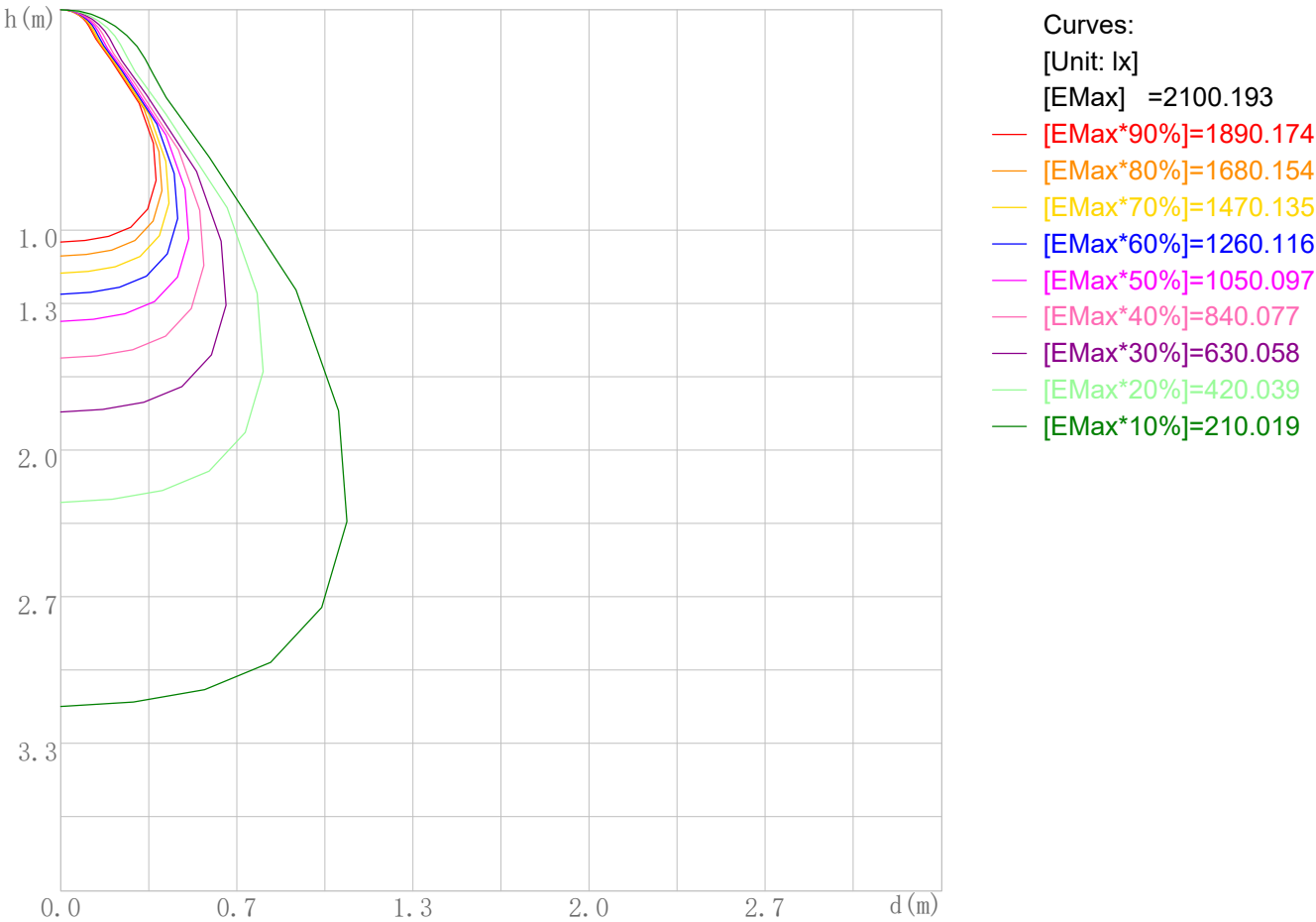
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04

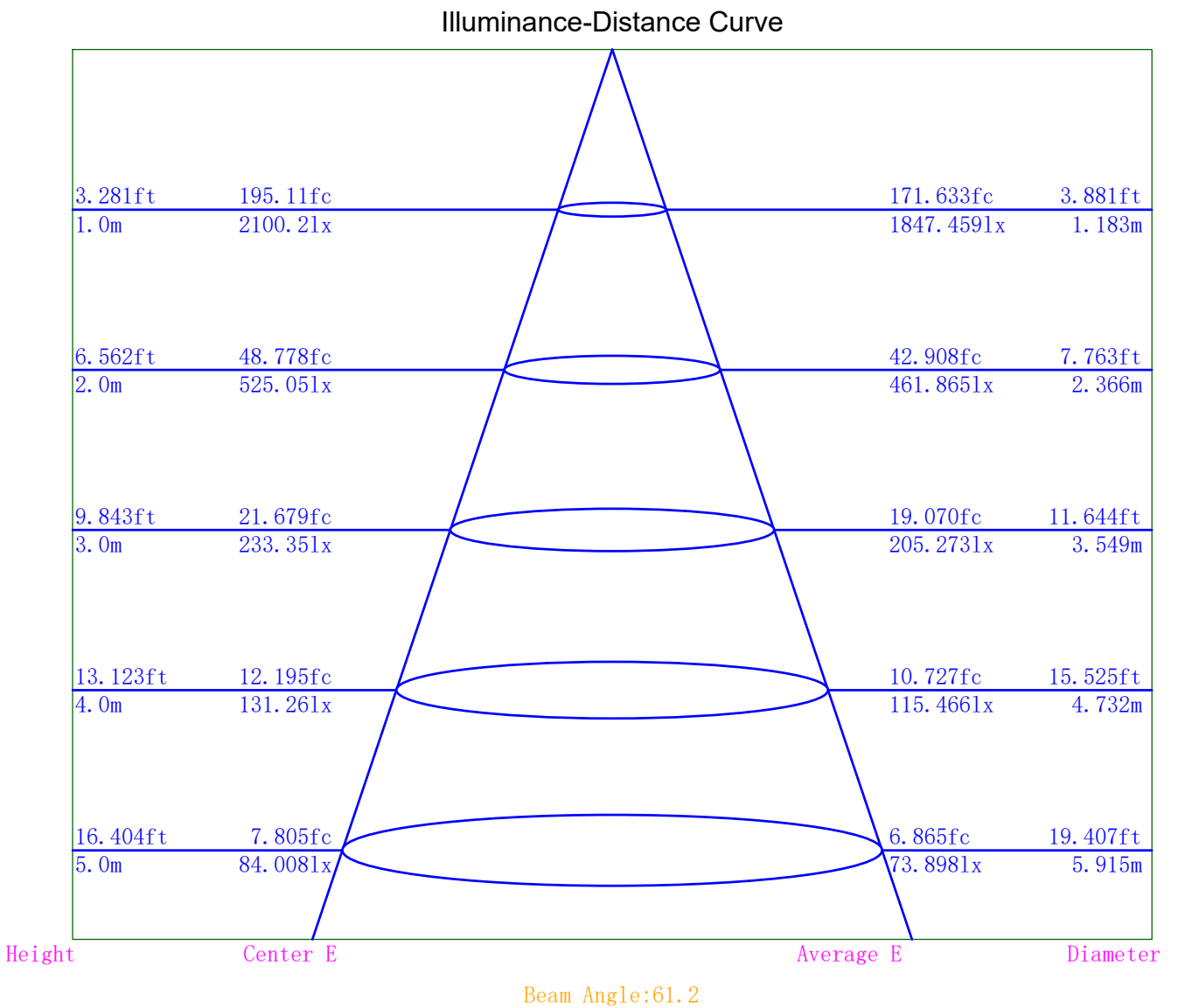
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:2100.19lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:2100.193cd,0eg

Illuminance-Distance Diagram

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04



Indoor Luminance Limiting Curves

Lum. Name:DL51-25-XX-01 2700K 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: 2022/08/04

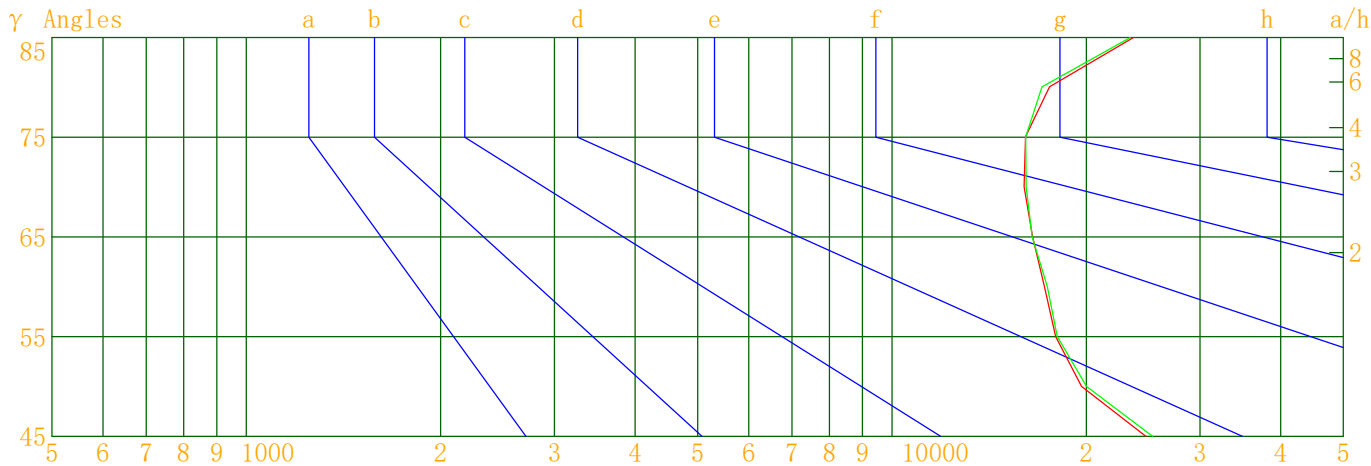
Glare Grade Table

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	24734	19657	17924	17227	16508	16019	16098	17544	23651
C90	25332	20017	18025	17397	16478	16135	16106	17076	23405

Luminance Limiting Curve



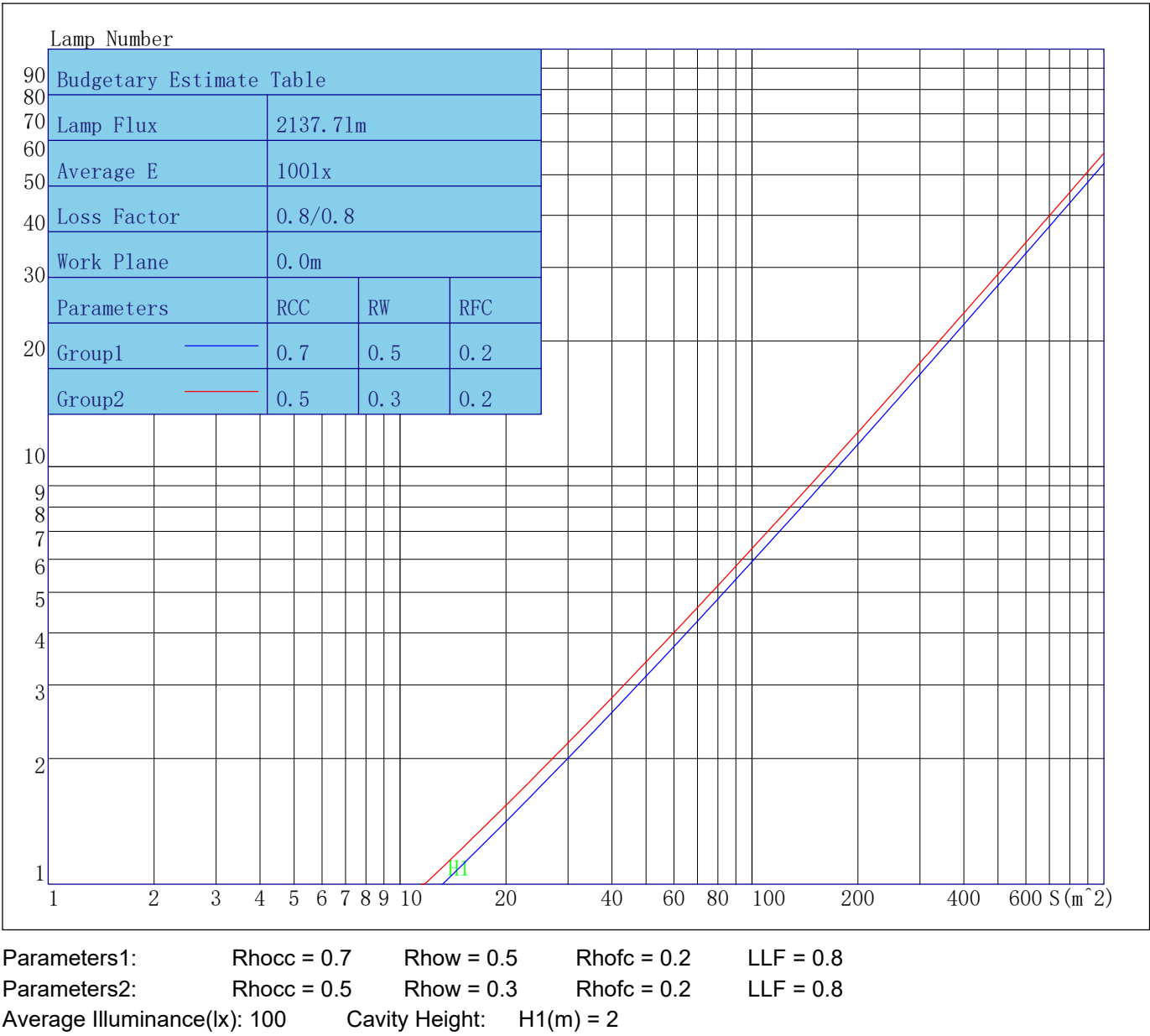
Luminous Size:Length(m)=-0.083Width(m)=-0.083Height(m)=0.000Area(m^2)=0.005411

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-25-XX-01 2700K 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: 2022/08/04



Indoor Coefficient of Utilization Table

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04

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	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	112	109	107	104	110	107	104	102	102	100	99	98	97	95	94	93	92	90
2	106	101	97	93	104	99	95	92	96	92	89	92	90	87	89	87	85	83
3	101	94	89	84	98	92	87	83	89	85	82	86	83	80	84	81	79	77
4	95	87	82	77	93	86	81	76	84	79	75	81	77	74	79	76	73	71
5	90	82	75	71	89	81	75	71	78	74	70	77	72	69	75	71	68	66
6	86	76	70	66	84	76	70	65	74	69	65	72	68	64	71	67	64	62
7	81	72	66	61	80	71	65	61	69	64	60	68	63	60	67	63	59	58
8	77	68	61	57	76	67	61	57	66	60	57	64	60	56	63	59	56	54
9	74	64	58	54	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	49	48

Unified Glare Rating Table

Lum. Name:DL51-25-XX-01 2700K 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:2022/08/04

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	21.1	22.0	21.5	22.4	22.8	21.4	22.3	21.8	22.7	23.1
	21.4	22.3	21.8	22.7	23.1	21.7	22.5	22.1	22.9	23.3
	21.6	22.4	22.1	22.8	23.3	21.9	22.7	22.3	23.1	23.5
	21.9	22.6	22.3	23.0	23.5	22.1	22.8	22.5	23.2	23.7
	22.0	22.7	22.5	23.1	23.6	22.2	22.9	22.7	23.3	23.8
	22.1	22.8	22.6	23.2	23.7	22.3	23.0	22.8	23.4	23.9
X=4H Y=2H	21.0	21.8	21.5	22.2	22.7	21.3	22.1	21.7	22.5	23.0
	21.6	22.2	22.0	22.7	23.1	21.8	22.4	22.2	22.9	23.4
	21.9	22.5	22.4	23.0	23.5	22.1	22.7	22.6	23.2	23.7
	22.3	22.8	22.8	23.3	23.8	22.5	23.0	23.0	23.5	24.0
	22.5	23.0	23.0	23.5	24.0	22.6	23.1	23.2	23.6	24.1
	22.7	23.2	23.3	23.7	24.2	22.9	23.3	23.4	23.8	24.3
X=8H Y=4H	22.0	22.5	22.5	22.9	23.5	22.2	22.6	22.7	23.1	23.7
	22.5	22.9	23.1	23.5	24.0	22.7	23.1	23.2	23.6	24.2
	22.9	23.2	23.4	23.8	24.3	23.0	23.3	23.5	23.9	24.4
	23.2	23.5	23.8	24.1	24.7	23.3	23.6	23.9	24.2	24.8
X=12H Y=4H	22.0	22.4	22.5	22.9	23.4	22.2	22.6	22.7	23.1	23.6
	22.6	22.9	23.2	23.4	24.0	22.7	23.0	23.3	23.6	24.2
	23.0	23.3	23.5	23.8	24.4	23.1	23.4	23.6	23.9	24.5
Variations with the objverver position at spacings										
S=1.0H	0.2/-0.2					0.3/-0.3				
S=1.5H	0.5/-0.5					0.5/-0.5				
S=2.0H	0.5/-0.6					0.6/-0.6				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.8					1.6				

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	2100.19	2100.19	2100.19	2100.19
γ 5.0	2097.12	2102.59	2104.50	2102.95
γ 10.0	2094.37	2113.27	2107.30	2096.34
γ 15.0	2045.03	2071.52	2058.94	2036.94
γ 20.0	1862.86	1899.03	1912.88	1871.28
γ 25.0	1521.54	1550.28	1577.91	1535.97
γ 30.0	1071.33	1119.37	1150.81	1102.90
γ 35.0	617.77	673.12	704.14	646.32
γ 40.0	209.23	227.40	252.25	227.85
γ 45.0	94.63	96.92	85.86	84.75
γ 50.0	68.36	69.62	60.24	60.40
γ 55.0	55.63	55.94	48.02	48.38
γ 60.0	46.60	47.06	42.09	42.48
γ 65.0	37.75	37.68	35.87	36.23
γ 70.0	29.64	29.86	29.78	29.94
γ 75.0	22.54	22.55	23.21	23.29
γ 80.0	16.48	16.04	17.00	16.95
γ 85.0	11.15	11.04	11.52	11.41
γ 90.0	6.84	7.02	7.16	7.64
γ 95.0	6.10	6.22	6.29	6.65
γ 100.0	5.18	5.33	5.65	5.76
γ 105.0	5.03	4.99	5.32	5.41
γ 110.0	4.99	4.59	5.07	5.08
γ 115.0	5.03	5.05	5.33	5.28
γ 120.0	5.58	5.09	5.84	5.86
γ 125.0	6.37	6.22	6.43	6.70
γ 130.0	7.21	7.12	7.37	7.83
γ 135.0	8.31	8.27	8.43	8.93
γ 140.0	9.89	9.37	9.70	10.01
γ 145.0	10.95	10.63	11.01	11.03
γ 150.0	12.12	11.80	12.18	12.25
γ 155.0	12.85	12.50	12.69	12.63
γ 160.0	13.72	13.41	13.86	13.53
γ 165.0	14.60	14.31	14.86	14.97
γ 170.0	15.37	15.51	16.06	15.02
γ 175.0	15.97	15.92	16.15	15.73
γ 180.0	16.58	16.58	16.58	16.58