

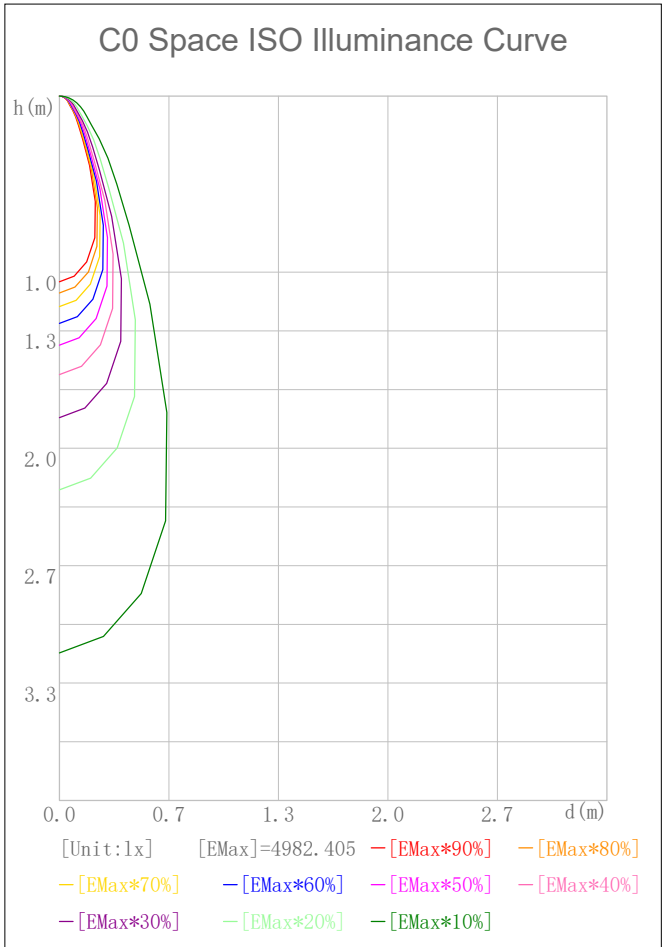
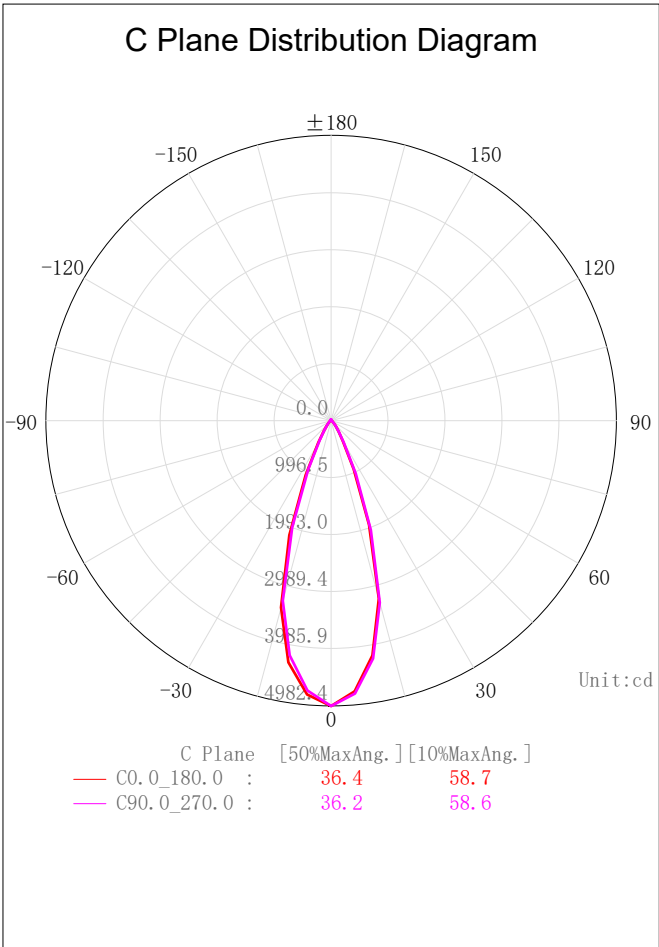
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-25-XX-01 2700K RA90 36D 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

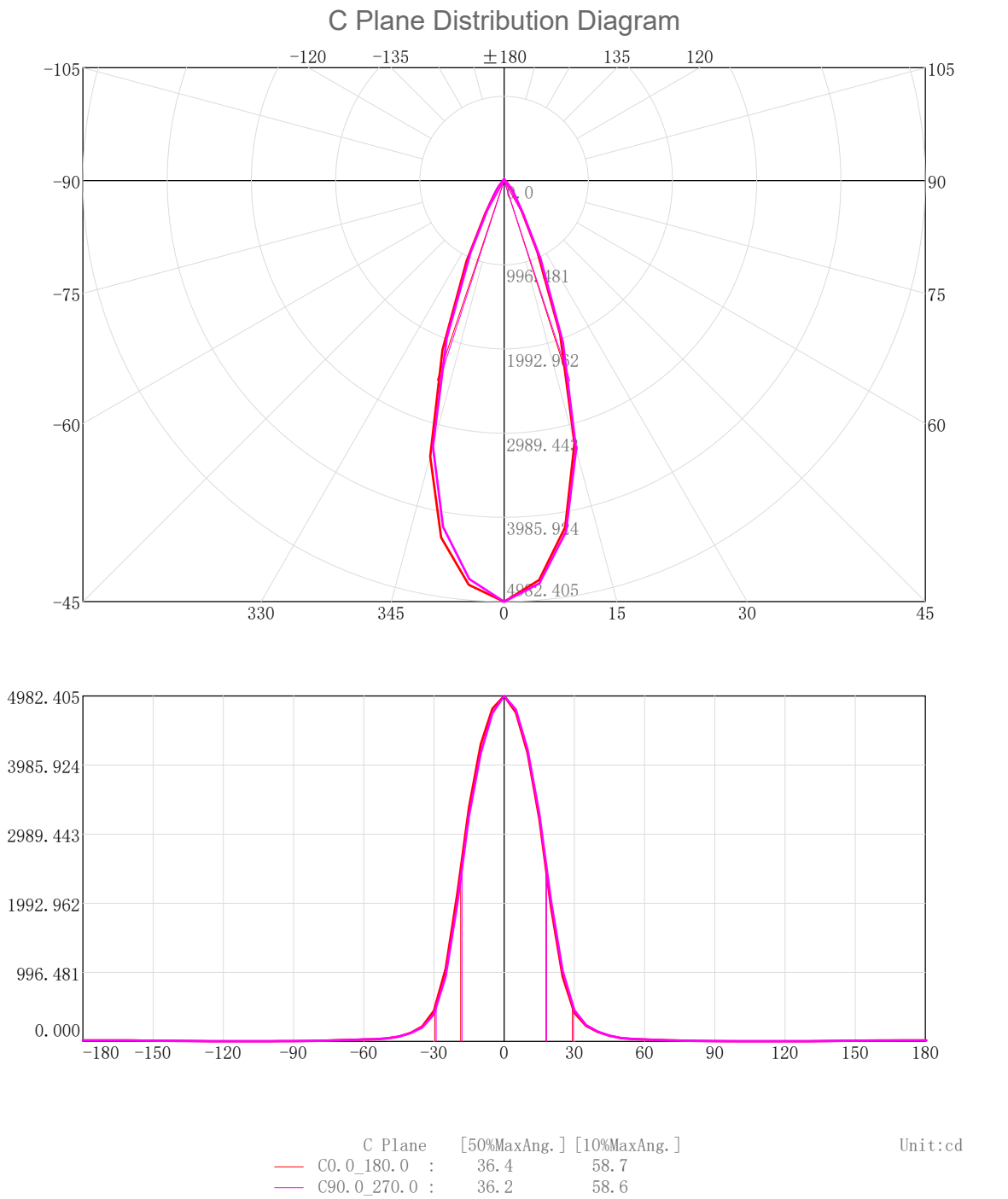
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2151.380	Luminary Flux(lm): 2151.381	Field Angle(10%Imax): 58.7(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2110.902lm 98.12%	
Rated Voltage(V):	Luminary EER(lm/W): 88.607	Up Lumens&Percent: 40.479lm 1.88%	
Tested Power(W): 24.280	Max. Candela(cd): 4982.405	S/MH: C0_a180=0.607 C90_270=0.603	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.7, 0.104, 0.967	Beam Angle(50%Imax): 36.4(°)	ErP Φ use(90°): 2020.340lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-18.6°, Right=17.8°	IRF(%): 511.988	



2D Plane Light Intensity Distribution Curve

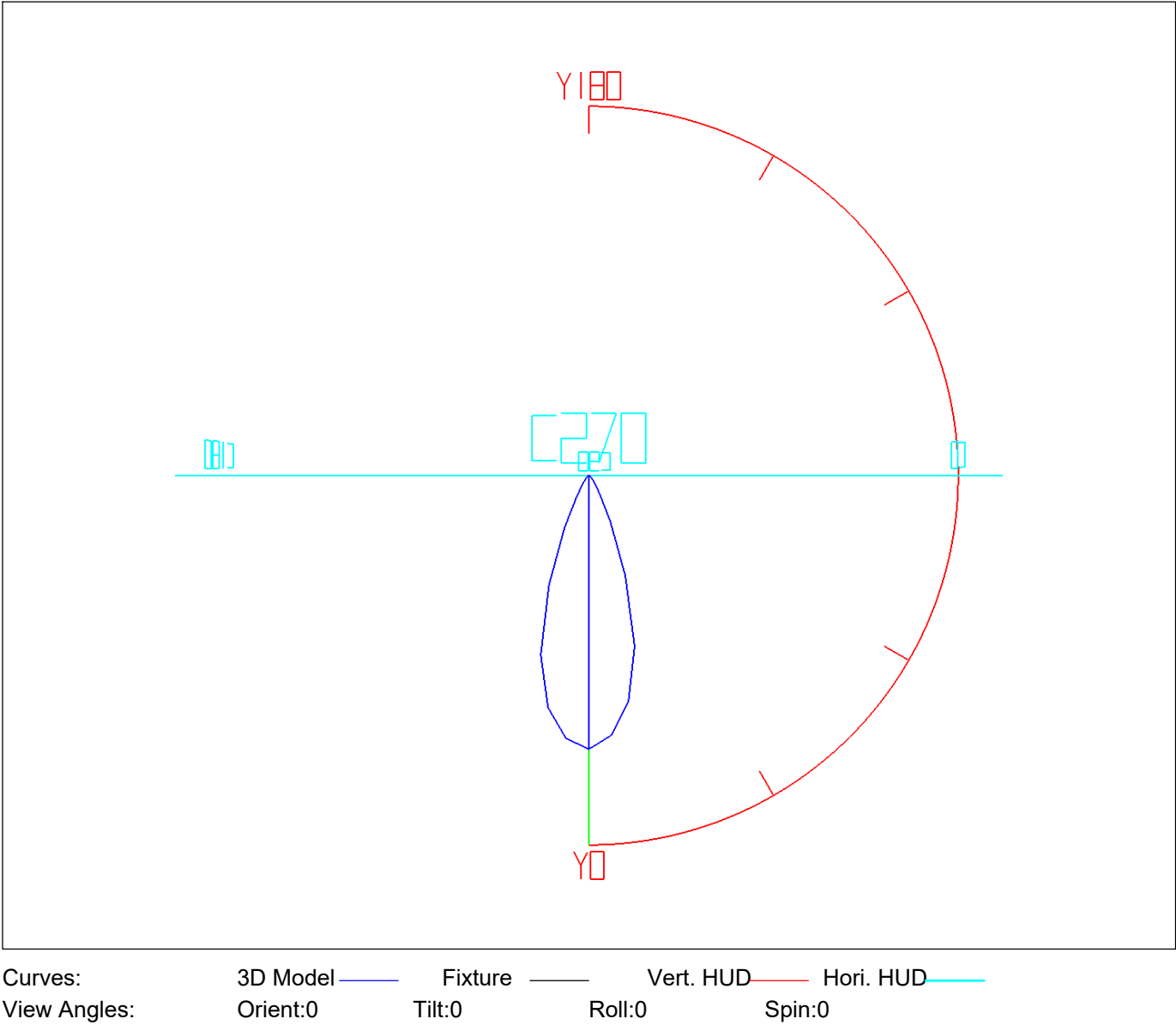
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Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/04



3D Light Intensity Distribution Modal

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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

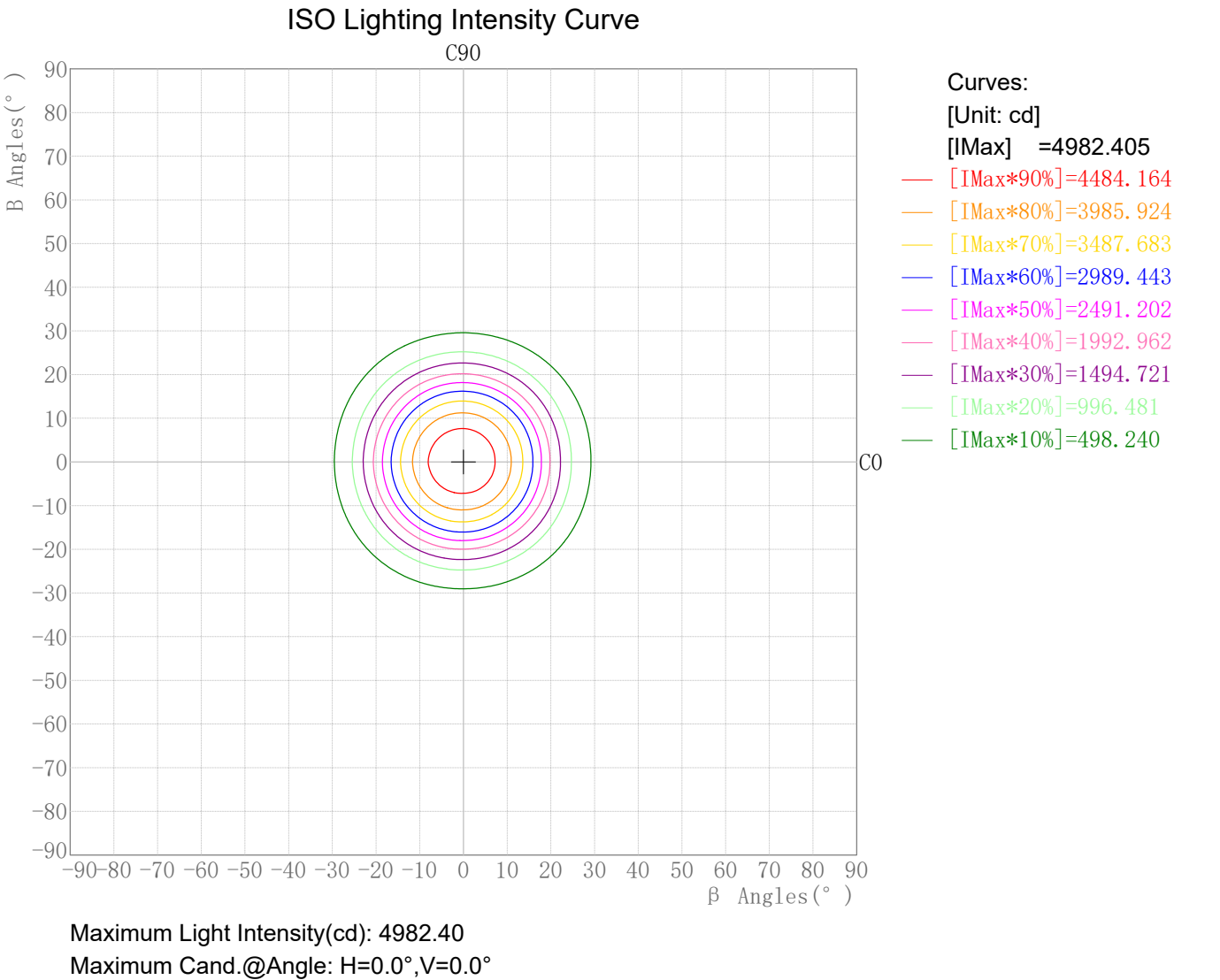


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	116.53	116.53	5.42	5.42
5.0-10.0	320.95	437.48	14.92	20.33
10.0-15.0	444.45	881.93	20.66	40.99
15.0-20.0	437.32	1319.25	20.33	61.32
20.0-25.0	315.41	1634.66	14.66	75.98
25.0-30.0	178.59	1813.24	8.30	84.28
30.0-35.0	94.92	1908.16	4.41	88.69
35.0-40.0	58.65	1966.81	2.73	91.42
40.0-45.0	38.72	2005.53	1.80	93.22
45.0-50.0	25.20	2030.73	1.17	94.39
50.0-55.0	17.93	2048.66	0.83	95.23
55.0-60.0	14.90	2063.56	0.69	95.92
60.0-65.0	12.79	2076.35	0.59	96.51
65.0-70.0	10.70	2087.05	0.50	97.01
70.0-75.0	8.60	2095.65	0.40	97.41
75.0-80.0	6.61	2102.26	0.31	97.72
80.0-85.0	4.99	2107.25	0.23	97.95
85.0-90.0	3.65	2110.90	0.17	98.12
90.0-95.0	2.89	2113.79	0.13	98.25
95.0-100.0	2.46	2116.26	0.11	98.37
100.0-105.0	2.10	2118.35	0.10	98.46
105.0-110.0	1.90	2120.26	0.09	98.55
110.0-115.0	1.71	2121.97	0.08	98.63
115.0-120.0	1.68	2123.65	0.08	98.71
120.0-125.0	1.81	2125.46	0.08	98.80
125.0-130.0	2.06	2127.52	0.10	98.89
130.0-135.0	2.42	2129.94	0.11	99.00
135.0-140.0	2.83	2132.77	0.13	99.14
140.0-145.0	3.17	2135.94	0.15	99.28
145.0-150.0	3.34	2139.28	0.16	99.44
150.0-155.0	3.30	2142.58	0.15	99.59
155.0-160.0	3.00	2145.58	0.14	99.73
160.0-165.0	2.48	2148.06	0.12	99.85
165.0-170.0	1.83	2149.89	0.08	99.93
170.0-175.0	1.12	2151.00	0.05	99.98
175.0-180.0	0.38	2151.38	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

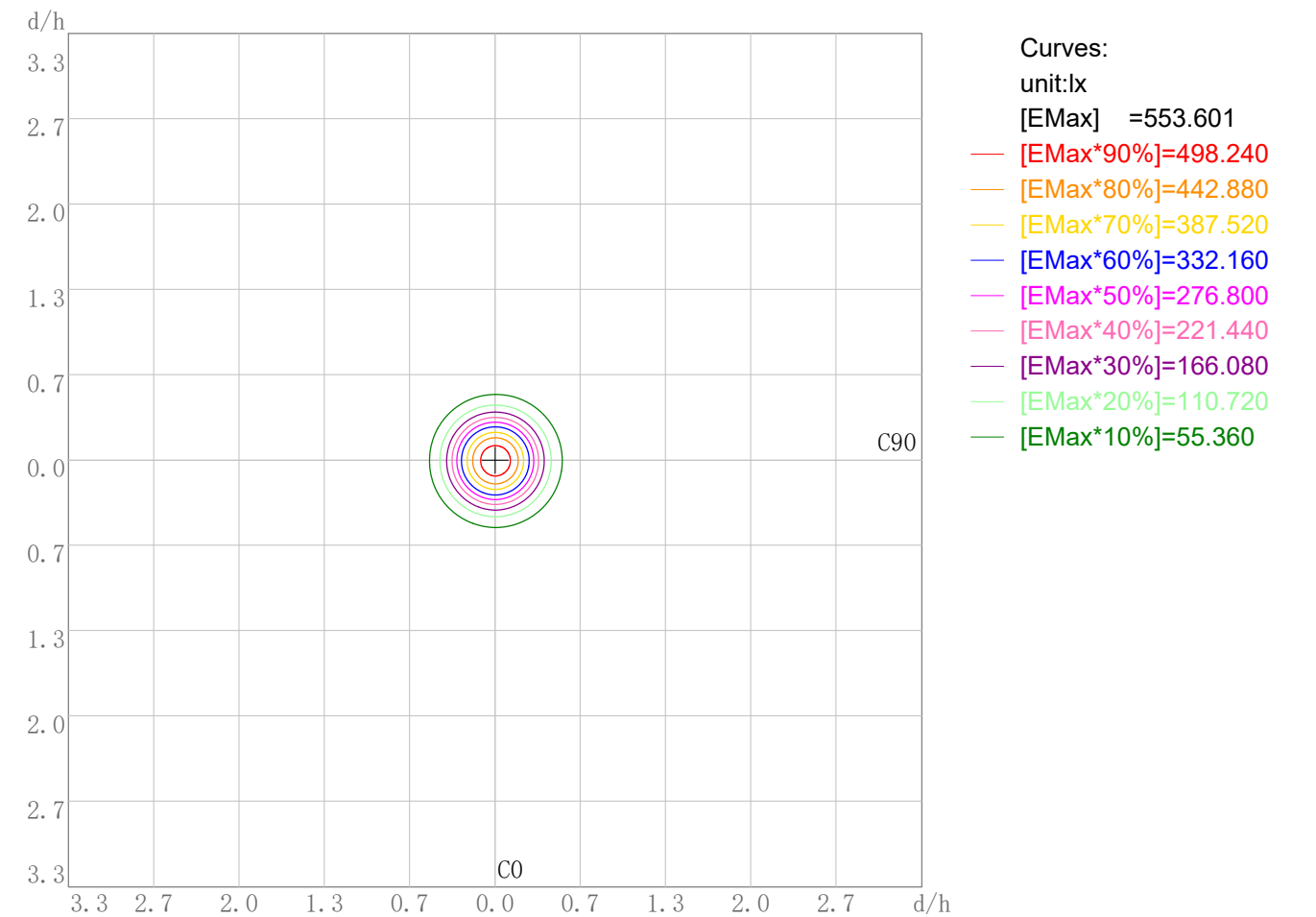
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Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/04



Plane ISO-Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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

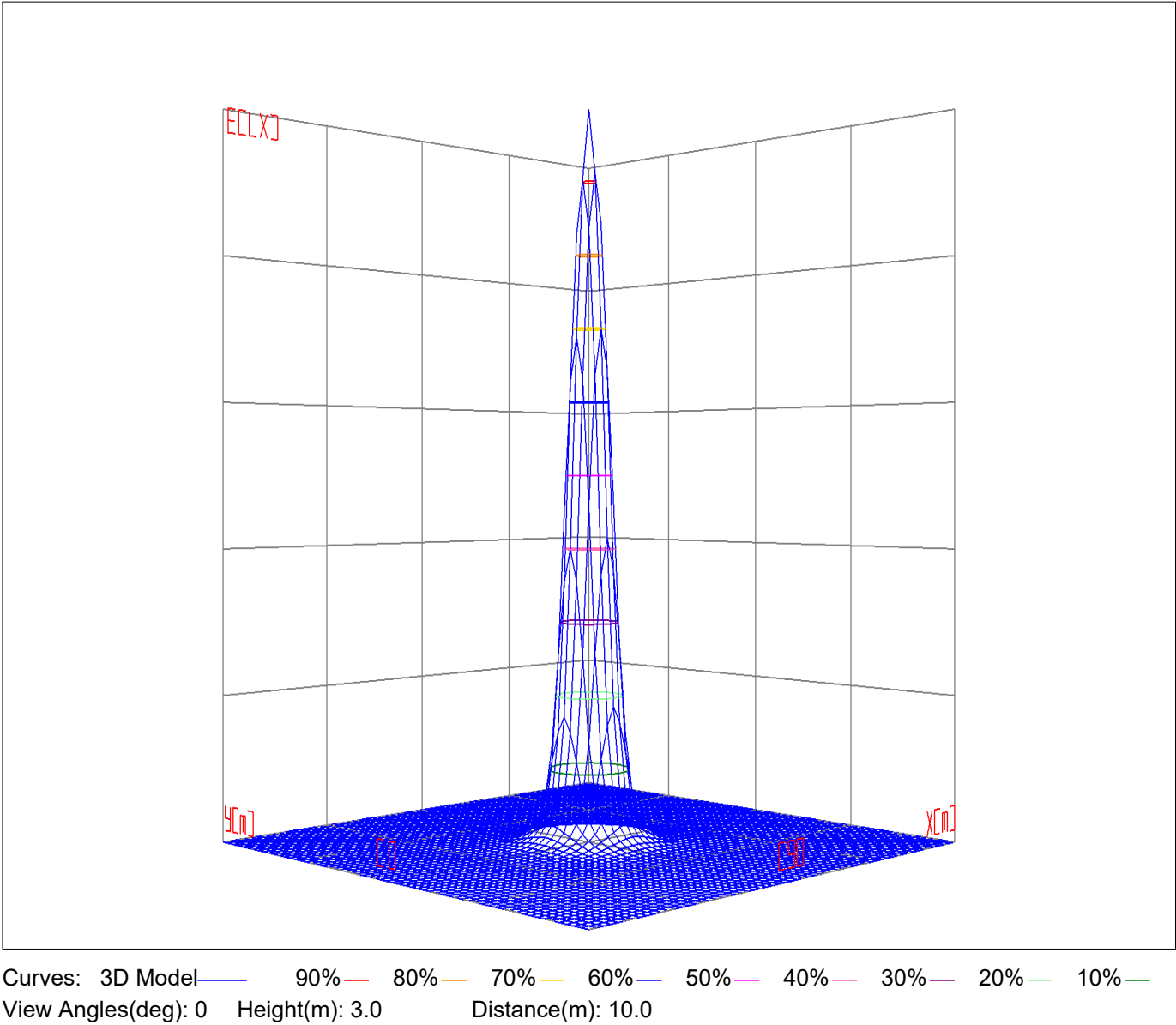
Working Plane Maximum Illuminance(lx): 553.60

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

3D Plane ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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

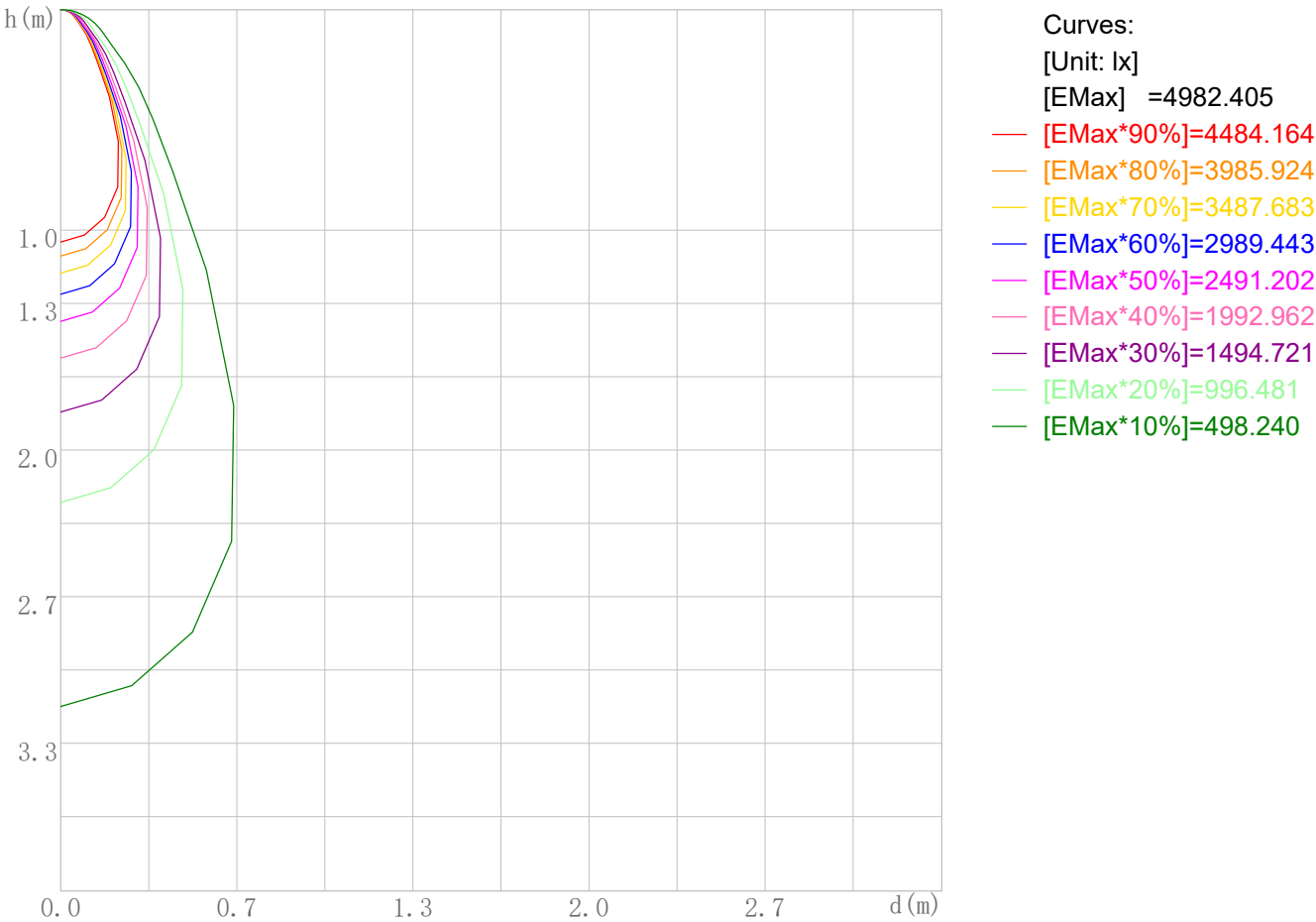
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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

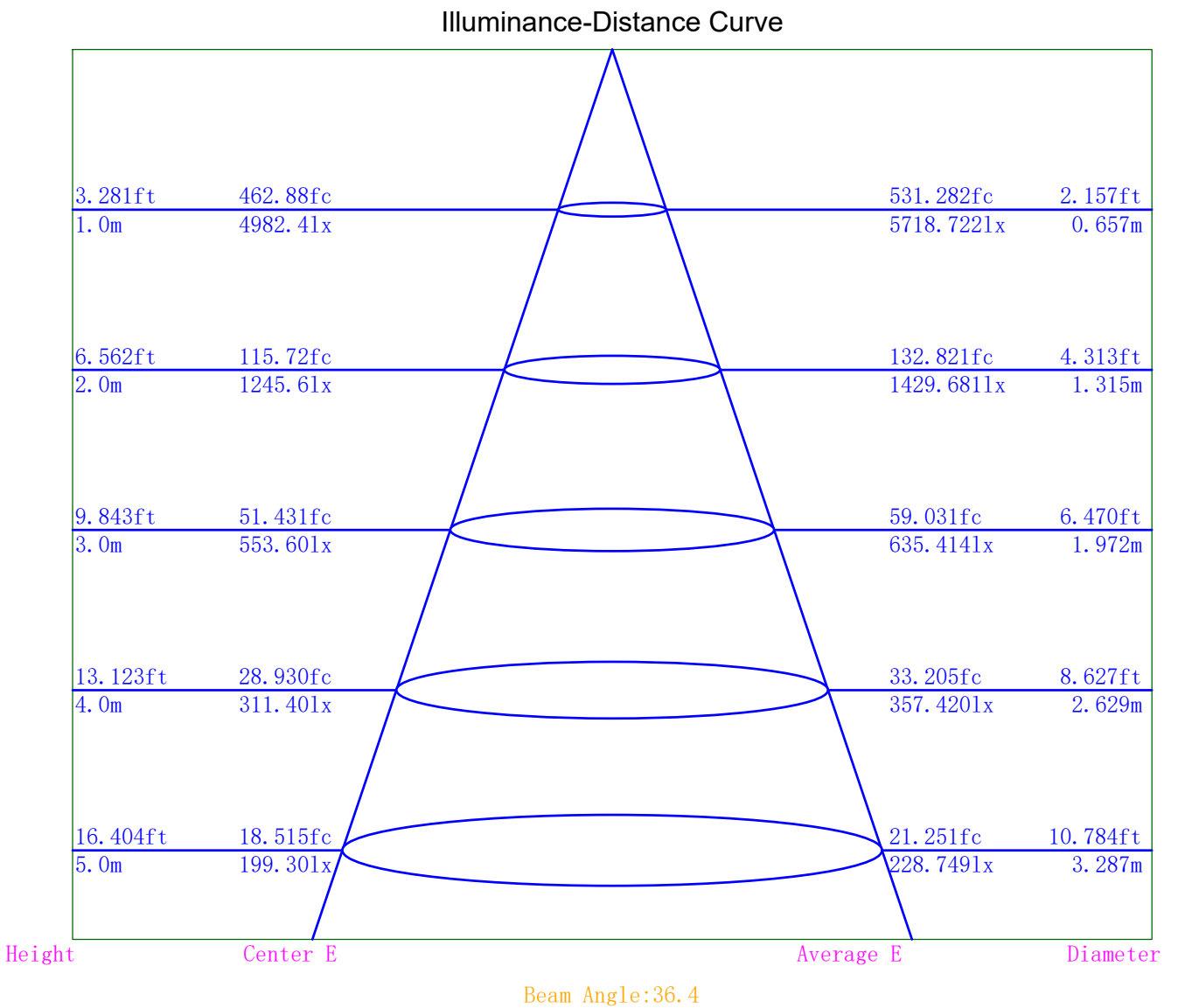
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:4982.40lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:4982.405cd,0deg

Illuminance-Distance Diagram

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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 36D 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

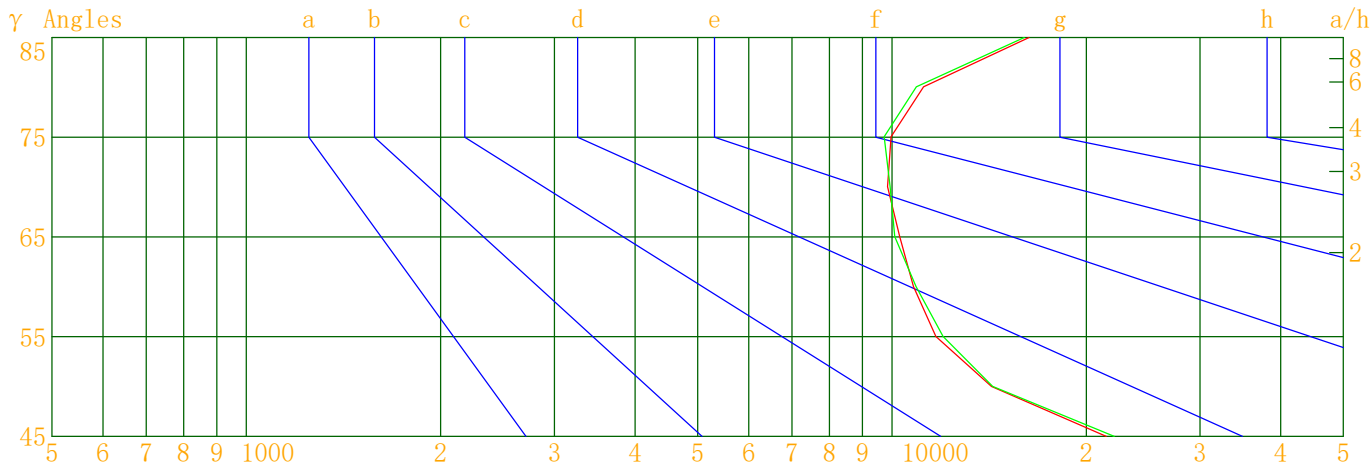
Glare Grade Table

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	21474	14256	11696	10799	10280	9845	9967	11193	16307
C90	22089	14325	11997	10896	10097	9931	9723	10909	16025

Luminance Limiting Curve



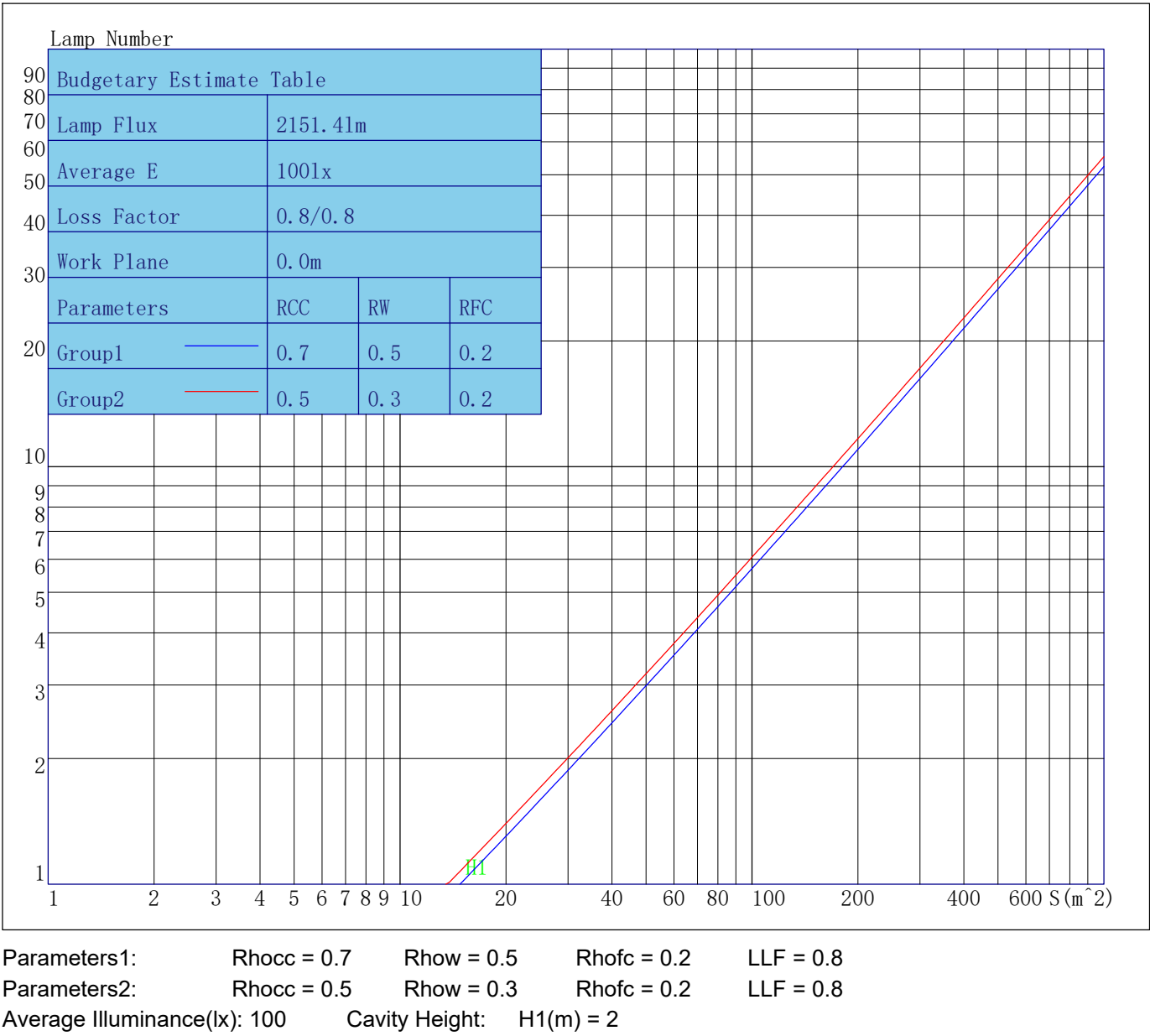
Luminous Size:Length(m)=-0.083Width(m)=-0.083Height(m)=0.000Area(m^2)=0.005411

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 36D 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 36D 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	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	113	111	108	106	111	108	106	105	104	102	101	100	99	98	96	95	94	93
2	109	104	100	97	106	102	99	96	99	96	94	96	93	91	93	91	89	88
3	104	98	94	90	102	97	93	89	94	90	88	91	88	86	89	87	85	83
4	100	93	88	84	98	92	87	84	89	86	83	87	84	82	85	83	80	79
5	96	88	83	80	94	87	83	79	85	81	78	84	80	77	82	79	77	75
6	92	84	79	75	90	83	79	75	82	78	74	80	77	74	79	76	73	72
7	88	81	75	72	87	80	75	71	78	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68	74	70	68	73	70	67	66
9	82	74	69	66	81	73	69	65	72	68	65	71	68	65	71	67	64	63
10	79	71	66	63	78	71	66	63	70	65	62	69	65	62	68	65	62	61

Unified Glare Rating Table

Lum. Name:DL51-25-XX-01 2700K RA90 36D 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	16.3	17.2	16.7	17.6	18.0	16.5	17.5	16.9	17.8	18.2
	Y=3H	16.9	17.7	17.3	18.1	18.5	17.1	17.9	17.5	18.3	18.7
	Y=4H	17.3	18.0	17.7	18.4	18.9	17.4	18.2	17.8	18.5	19.0
	Y=6H	17.6	18.3	18.1	18.7	19.2	17.7	18.4	18.2	18.8	19.3
	Y=8H	17.8	18.5	18.3	18.9	19.4	17.9	18.6	18.4	19.0	19.5
	Y=12H	18.1	18.7	18.6	19.1	19.6	18.1	18.8	18.6	19.2	19.7
X=4H	Y=2H	16.4	17.2	16.9	17.6	18.0	16.6	17.4	17.0	17.8	18.2
	Y=3H	17.2	17.9	17.7	18.3	18.8	17.4	18.0	17.8	18.4	18.9
	Y=4H	17.7	18.3	18.2	18.7	19.2	17.8	18.4	18.3	18.8	19.3
	Y=6H	18.3	18.8	18.8	19.3	19.8	18.3	18.8	18.9	19.3	19.8
	Y=8H	18.6	19.0	19.1	19.5	20.0	18.6	19.1	19.1	19.6	20.1
	Y=12H	18.9	19.3	19.5	19.8	20.4	19.0	19.3	19.5	19.9	20.4
X=8H	Y=4H	17.9	18.3	18.4	18.8	19.3	18.0	18.4	18.5	18.9	19.4
	Y=6H	18.6	19.0	19.2	19.5	20.1	18.7	19.0	19.2	19.6	20.1
	Y=8H	19.1	19.4	19.6	19.9	20.5	19.1	19.4	19.7	19.9	20.5
	Y=12H	19.6	19.9	20.2	20.4	21.0	19.6	19.9	20.2	20.4	21.0
X=12H	Y=4H	17.9	18.3	18.4	18.8	19.3	18.0	18.3	18.5	18.9	19.4
	Y=6H	18.7	19.0	19.3	19.5	20.1	18.7	19.0	19.3	19.5	20.1
	Y=8H	19.2	19.5	19.8	20.0	20.6	19.2	19.5	19.8	20.0	20.7
Variations with the objerver position at spacings											
S=1.0H		0.2/-0.2					0.2/-0.2				
S=1.5H		0.4/-0.4					0.4/-0.4				
S=2.0H		0.5/-0.5					0.5/-0.6				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		2.4					2.3				

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	4982.40	4982.40	4982.40	4982.40
γ 5.0	4743.86	4784.52	4800.16	4731.33
γ 10.0	4163.40	4216.74	4287.25	4160.17
γ 15.0	3217.48	3290.90	3378.85	3255.41
γ 20.0	1938.49	2032.56	2128.87	1982.82
γ 25.0	934.54	1022.50	1049.81	939.49
γ 30.0	412.84	450.41	443.43	391.70
γ 35.0	225.33	236.17	216.88	201.67
γ 40.0	137.50	143.24	124.77	120.57
γ 45.0	82.16	84.51	71.84	71.78
γ 50.0	49.58	49.82	44.35	44.81
γ 55.0	36.30	37.23	33.79	33.98
γ 60.0	29.21	29.48	28.89	28.89
γ 65.0	23.51	23.09	23.69	23.76
γ 70.0	18.22	18.38	19.37	19.02
γ 75.0	13.96	13.62	14.43	14.56
γ 80.0	10.52	10.25	10.79	10.72
γ 85.0	7.69	7.56	8.00	7.90
γ 90.0	5.42	5.63	5.57	5.61
γ 95.0	4.79	4.95	5.10	5.17
γ 100.0	4.07	4.08	4.10	3.98
γ 105.0	3.51	3.72	4.22	3.68
γ 110.0	3.44	3.31	3.84	3.38
γ 115.0	3.18	3.18	3.35	3.39
γ 120.0	3.44	3.52	3.76	3.82
γ 125.0	3.79	4.09	4.49	4.47
γ 130.0	4.86	4.85	5.53	5.75
γ 135.0	6.69	6.12	7.00	7.11
γ 140.0	8.25	8.22	9.05	8.75
γ 145.0	10.25	10.12	10.74	10.60
γ 150.0	12.25	11.88	12.54	12.47
γ 155.0	13.68	13.17	14.24	14.06
γ 160.0	14.79	14.26	15.32	14.85
γ 165.0	15.25	14.72	15.80	15.33
γ 170.0	15.33	15.29	16.05	15.35
γ 175.0	15.51	15.59	15.84	15.72
γ 180.0	15.96	15.96	15.96	15.96