

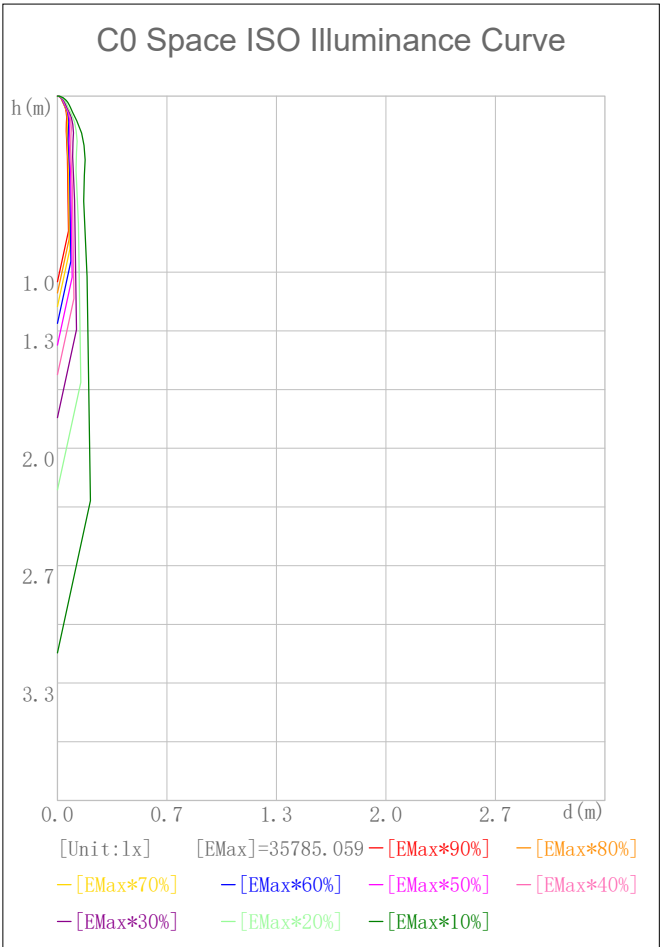
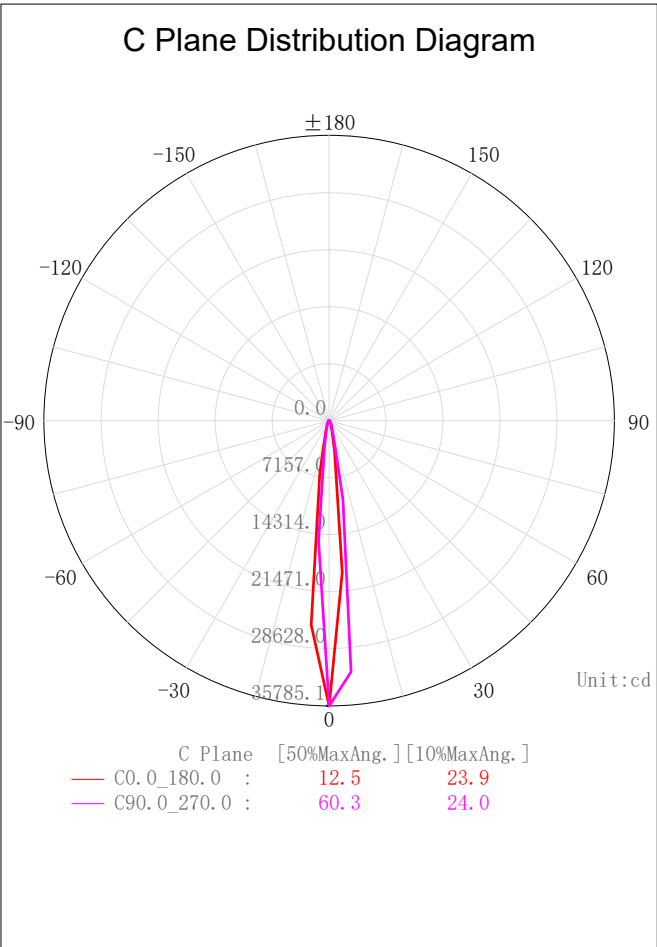
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-35-XX-01 3000K RA90 15D 白色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/10
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

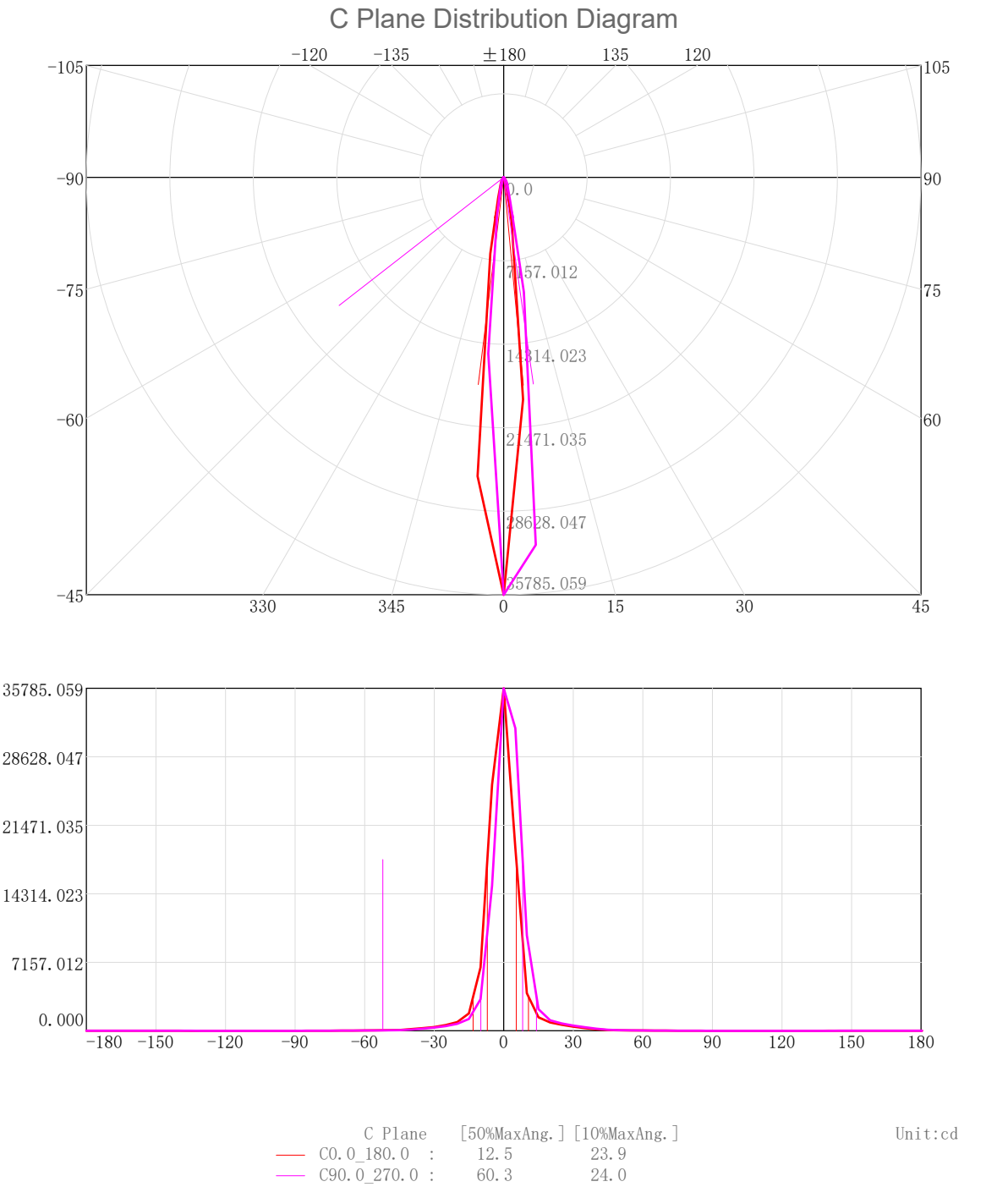
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 3111.820	Luminary Flux(lm): 3111.821	Field Angle(10%Imax): 23.9(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3068.145lm 98.60%
Rated Voltage(V):	Luminary EER(lm/W): 92.476	Up Lumens&Percent: 43.676lm 1.40%
Tested Power(W): 33.650	Max. Candela(cd): 35785.059	S/MH: C0_a180=0.216 C90_270=0.181
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf): 239.9, 0.146, 0.860	Beam Angle(50%Imax): 12.5(°)	ErP Φ use(90°): 3135.878lm
Lamp Size (W*L*H): 0.110m*0.110m*0.000m	Left=-7.1°, Right=5.4°	IRF (%): 2700.212



2D Plane Light Intensity Distribution Curve

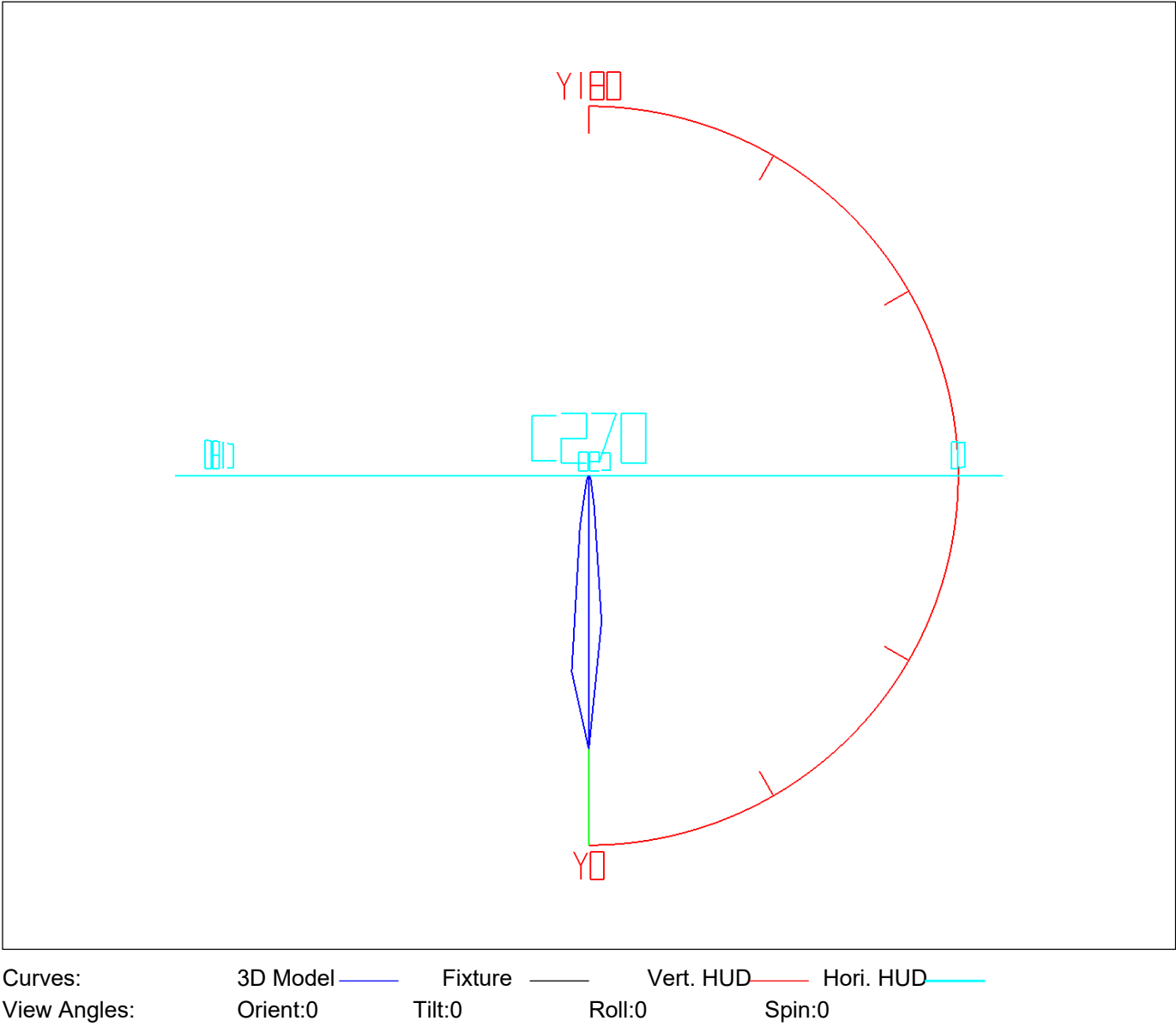
Lum. Name:DL51-35-XX-01 3000K RA90 15D 白色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/10



3D Light Intensity Distribution Modal

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10

3D Light Intensity Distribution Modal

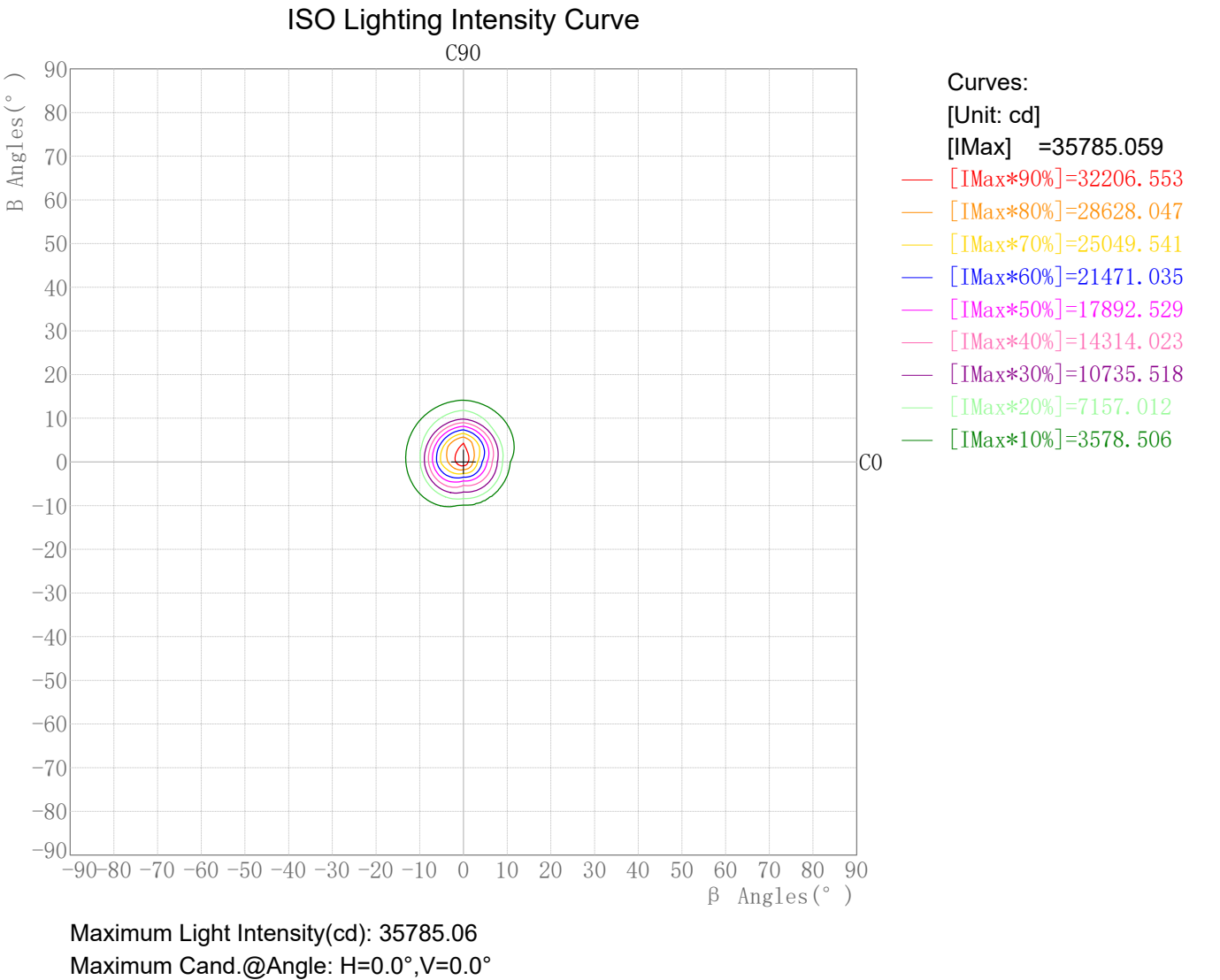


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-5. 0	701. 57	701. 57	22. 55	22. 55
5. 0-10. 0	1032. 60	1734. 16	33. 18	55. 73
10. 0-15. 0	453. 88	2188. 05	14. 59	70. 31
15. 0-20. 0	214. 12	2402. 16	6. 88	77. 19
20. 0-25. 0	161. 38	2563. 54	5. 19	82. 38
25. 0-30. 0	133. 73	2697. 28	4. 30	86. 68
30. 0-35. 0	106. 16	2803. 44	3. 41	90. 09
35. 0-40. 0	77. 29	2880. 72	2. 48	92. 57
40. 0-45. 0	48. 46	2929. 19	1. 56	94. 13
45. 0-50. 0	31. 33	2960. 52	1. 01	95. 14
50. 0-55. 0	25. 14	2985. 66	0. 81	95. 95
55. 0-60. 0	21. 01	3006. 67	0. 68	96. 62
60. 0-65. 0	17. 57	3024. 24	0. 56	97. 19
65. 0-70. 0	14. 16	3038. 40	0. 45	97. 64
70. 0-75. 0	11. 02	3049. 42	0. 35	97. 99
75. 0-80. 0	8. 30	3057. 72	0. 27	98. 26
80. 0-85. 0	6. 11	3063. 83	0. 20	98. 46
85. 0-90. 0	4. 31	3068. 15	0. 14	98. 60
90. 0-95. 0	2. 95	3071. 09	0. 09	98. 69
95. 0-100. 0	2. 14	3073. 23	0. 07	98. 76
100. 0-105. 0	1. 77	3075. 01	0. 06	98. 82
105. 0-110. 0	1. 66	3076. 66	0. 05	98. 87
110. 0-115. 0	1. 50	3078. 16	0. 05	98. 92
115. 0-120. 0	1. 34	3079. 50	0. 04	98. 96
120. 0-125. 0	1. 36	3080. 86	0. 04	99. 00
125. 0-130. 0	1. 56	3082. 41	0. 05	99. 05
130. 0-135. 0	1. 97	3084. 38	0. 06	99. 12
135. 0-140. 0	2. 77	3087. 15	0. 09	99. 21
140. 0-145. 0	3. 90	3091. 05	0. 13	99. 33
145. 0-150. 0	4. 70	3095. 75	0. 15	99. 48
150. 0-155. 0	4. 67	3100. 42	0. 15	99. 63
155. 0-160. 0	4. 05	3104. 47	0. 13	99. 76
160. 0-165. 0	3. 24	3107. 71	0. 10	99. 87
165. 0-170. 0	2. 36	3110. 07	0. 08	99. 94
170. 0-175. 0	1. 35	3111. 42	0. 04	99. 99
175. 0-180. 0	0. 40	3111. 82	0. 01	100. 00

Rectangle ISO Lighting Intensity Diagram

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10

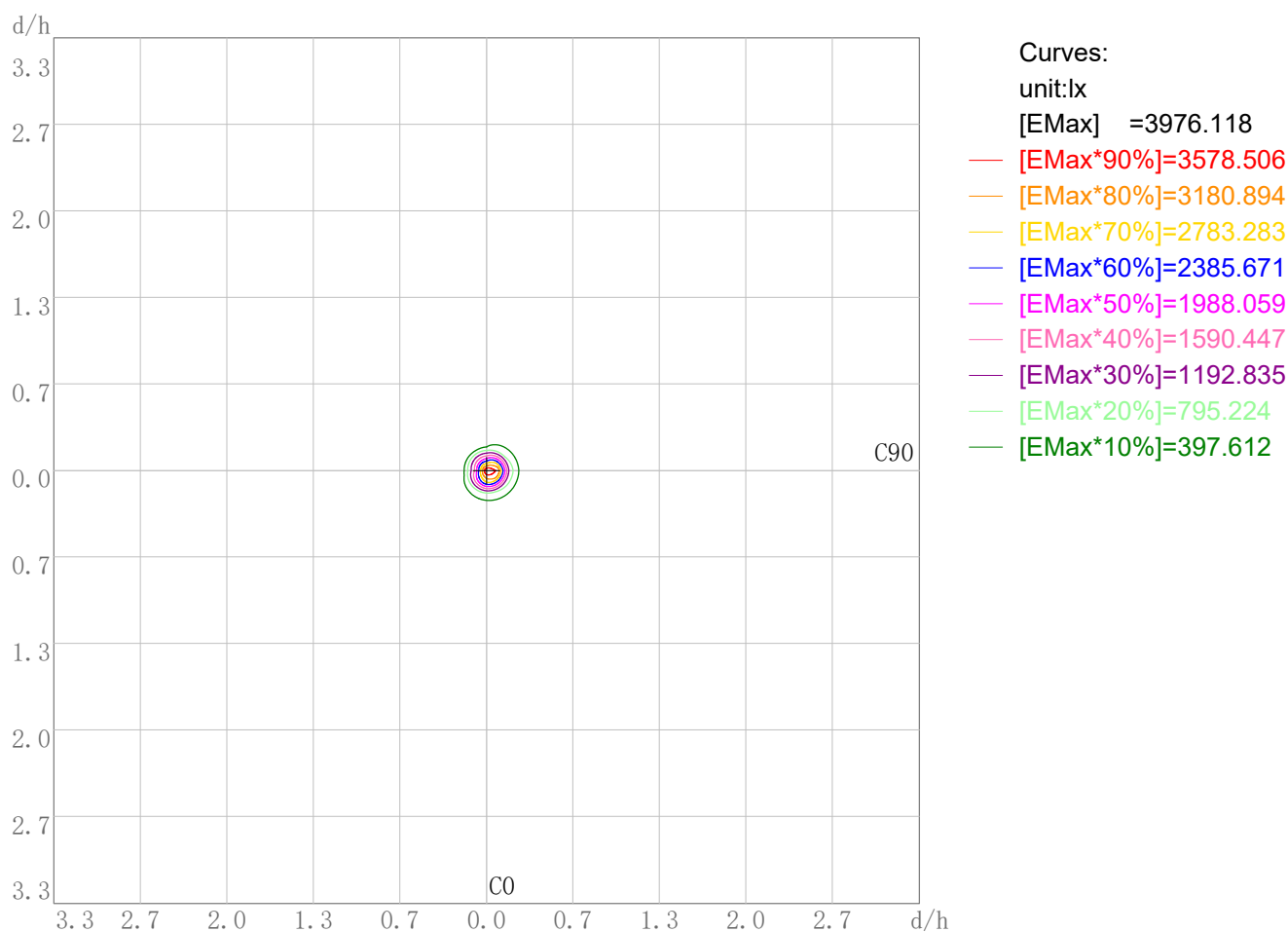


**Photometric Filename:DL51-35-XX-01 3000K RA90 15D 白色.IES**

## Plane ISO-Illuminance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 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: 2022/08/10

### Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

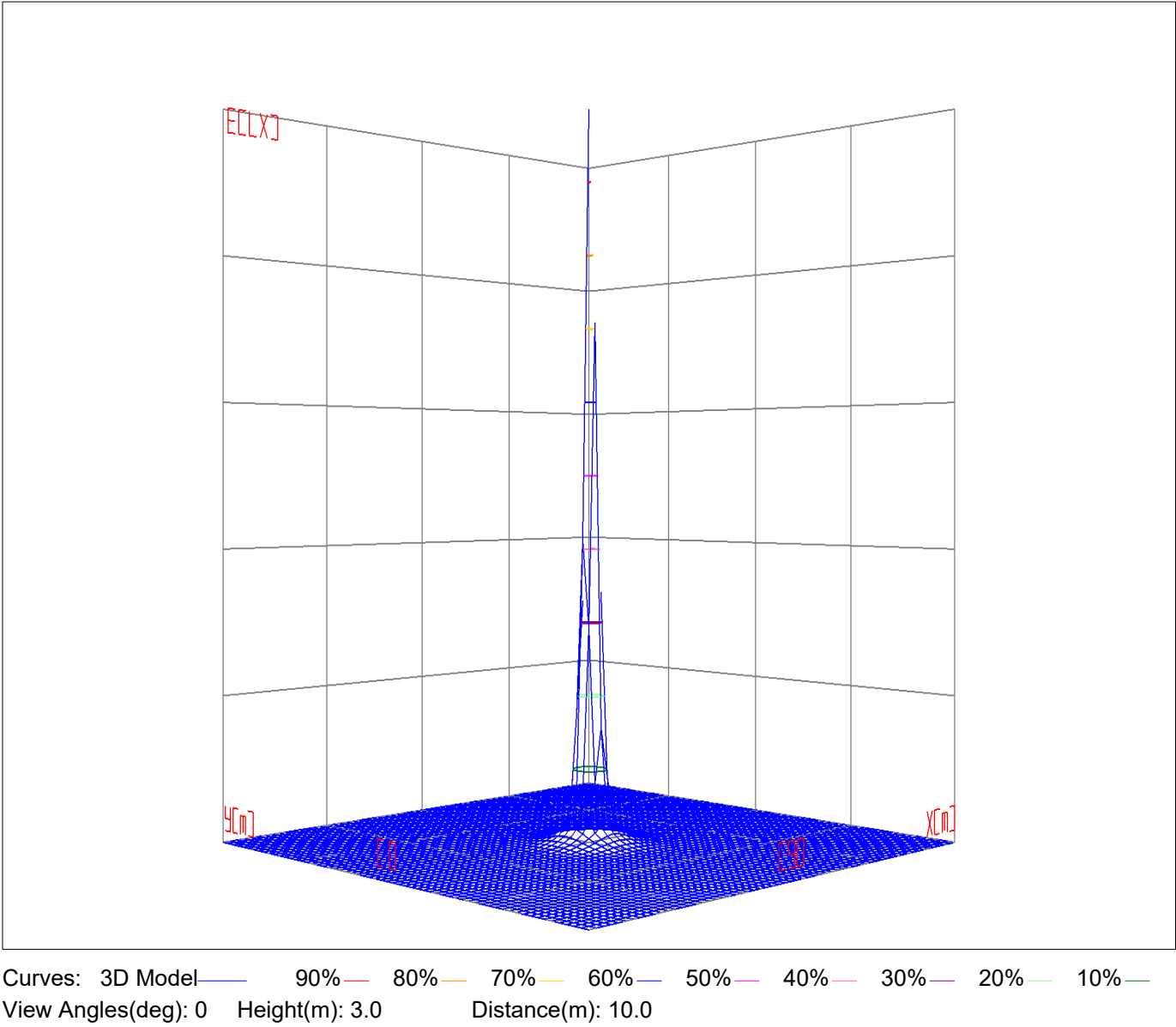
Working Plane Maximum Illuminance(lx): 3976.12

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

3D Plane ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 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: 2022/08/10

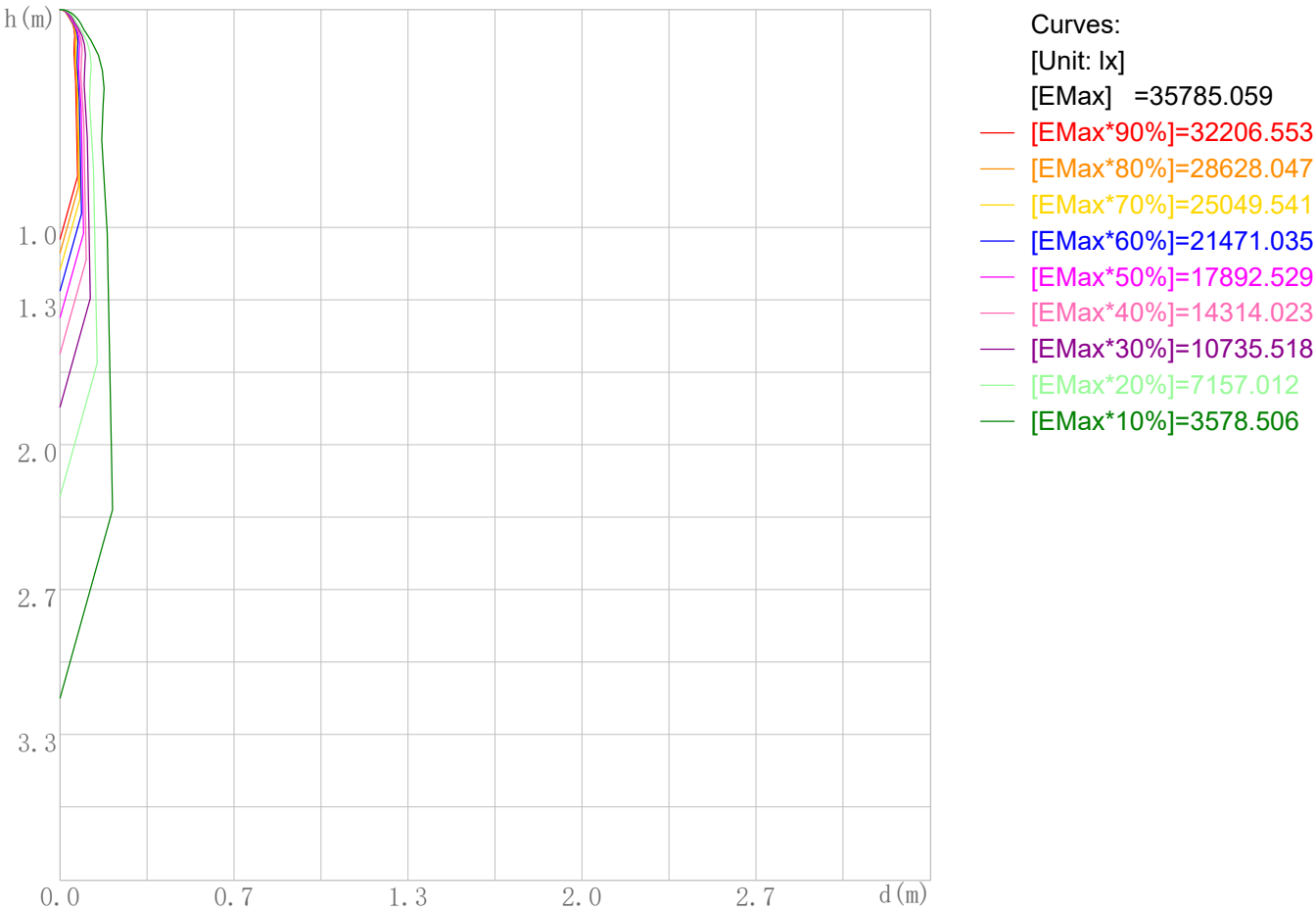
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL51-35-XX-01 3000K RA90 15D 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: 2022/08/10

Space ISO Illuminance Curve

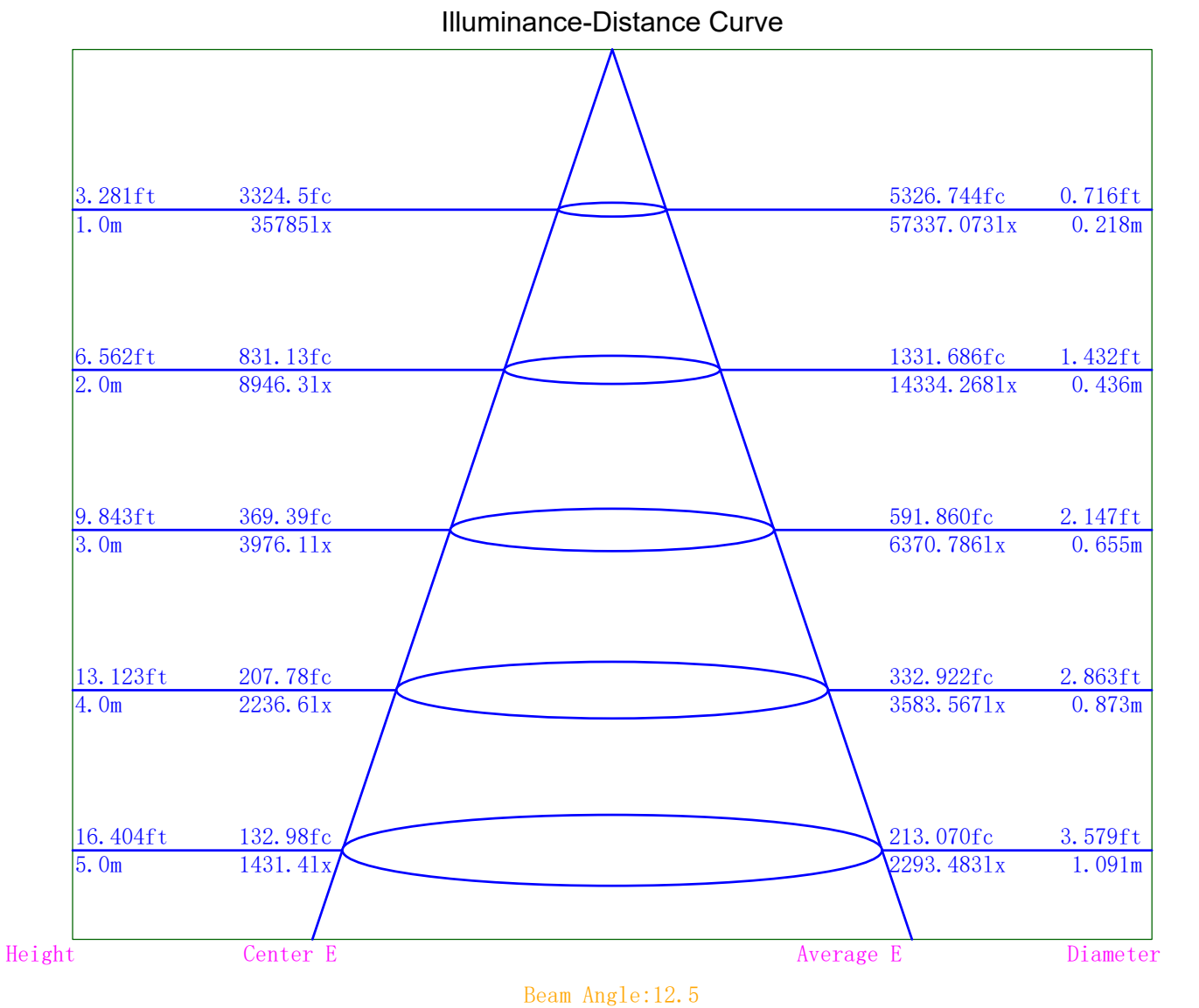


Space Plane Maximum Illuminance and @Angle:35785.06lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:35785.059cd,0eg



Illuminance-Distance Diagram

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10



Indoor Luminance Limiting Curves

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10

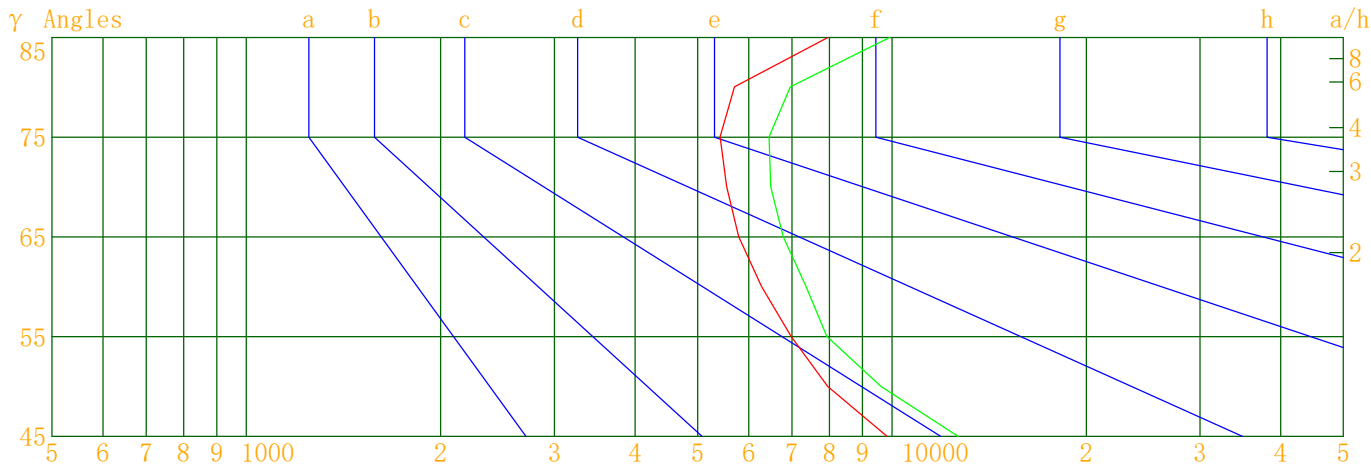
Glare Grade Table

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	9826	7951	6980	6280	5787	5545	5417	5704	7954
C90	12658	9616	7930	7363	6782	6488	6450	6959	9914

Luminance Limiting Curve



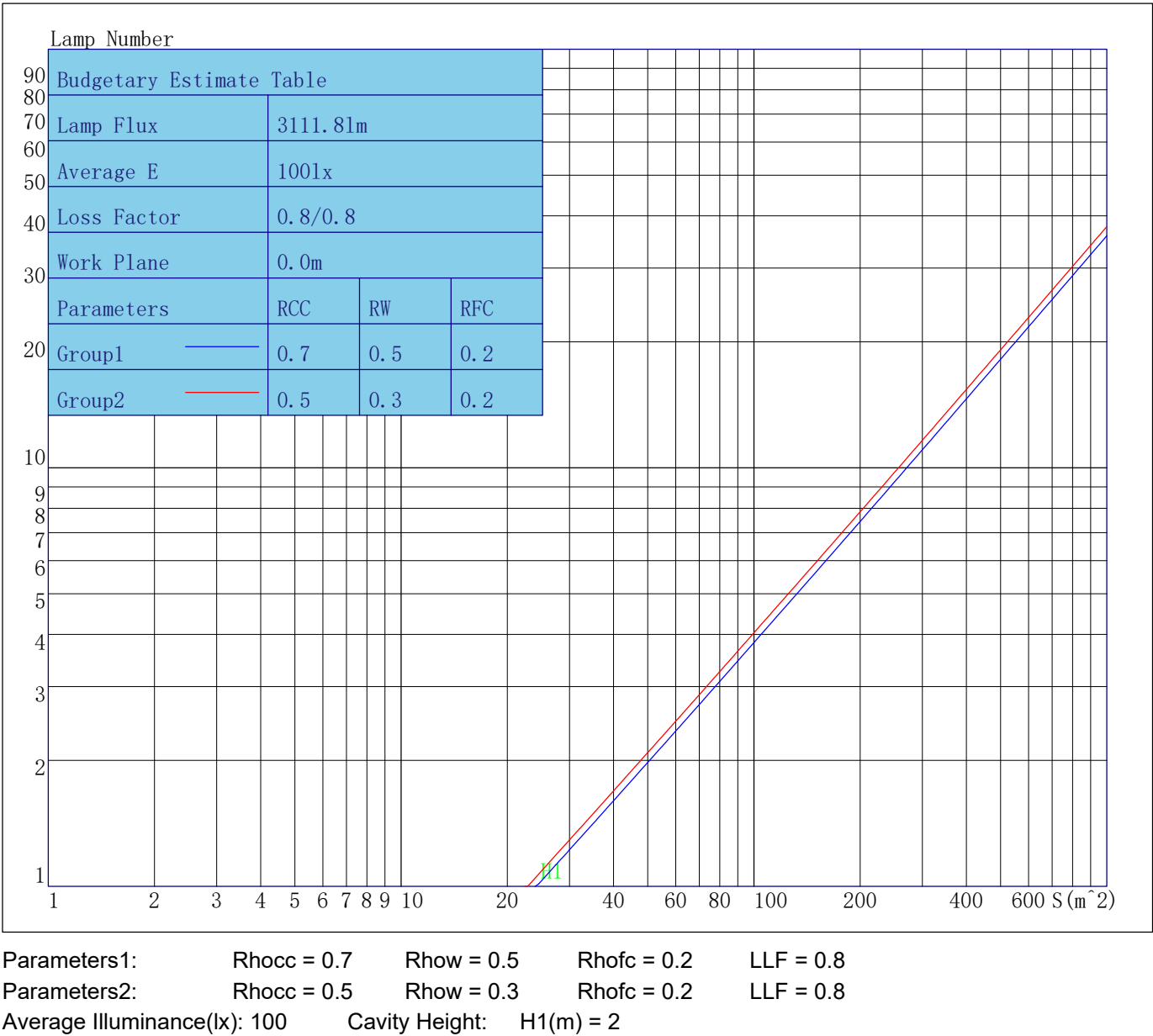
Luminous Size:Length(m)=0.110Width(m)=0.110Height(m)=0.000Area(m^2)=0.012100

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10



Indoor Coefficient of Utilization Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10

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	101	101	101	99
1	115	112	110	109	112	110	108	107	106	105	103	102	101	100	98	98	97	95
2	111	107	104	101	109	105	103	100	102	100	98	99	97	96	96	95	93	92
3	107	103	99	96	105	101	98	95	99	96	94	96	94	92	94	92	91	89
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	96	92	89	100	95	91	88	93	90	87	91	89	87	90	88	86	85
6	99	93	89	86	98	92	88	86	91	87	85	89	86	84	88	86	84	83
7	96	90	86	84	95	90	86	83	88	85	83	87	84	82	86	84	82	81
8	94	88	84	82	93	88	84	81	87	83	81	86	83	81	85	82	80	79
9	92	86	82	80	91	86	82	80	85	82	79	84	81	79	83	81	79	78
10	91	84	81	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77

Unified Glare Rating Table

Lum. Name:DL51-35-XX-01 3000K RA90 15D 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:2022/08/10

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	13.8	14.6	14.2	15.0	15.3	15.0	15.9	15.4	16.2	16.5
	14.5	15.2	14.9	15.5	15.9	15.6	16.3	16.0	16.7	17.1
	14.8	15.4	15.2	15.8	16.3	16.0	16.6	16.4	17.0	17.4
	15.1	15.7	15.6	16.1	16.6	16.3	16.9	16.8	17.3	17.7
	15.3	15.8	15.8	16.3	16.7	16.5	17.0	17.0	17.4	17.9
	15.5	16.0	16.0	16.4	16.9	16.7	17.2	17.2	17.6	18.1
X=4H    Y=2H	14.0	14.6	14.4	15.0	15.4	15.1	15.8	15.6	16.1	16.6
	14.9	15.4	15.3	15.8	16.2	15.9	16.4	16.4	16.9	17.3
	15.3	15.8	15.8	16.2	16.7	16.4	16.8	16.9	17.3	17.8
	15.8	16.2	16.3	16.7	17.2	16.9	17.3	17.4	17.7	18.2
	16.1	16.4	16.6	16.9	17.4	17.2	17.5	17.7	18.0	18.5
	16.4	16.6	16.9	17.1	17.6	17.5	17.7	18.0	18.3	18.8
X=8H    Y=4H	15.5	15.8	16.0	16.3	16.8	16.5	16.8	17.0	17.3	17.8
	16.2	16.4	16.7	16.9	17.4	17.2	17.4	17.7	17.9	18.5
	16.5	16.7	17.1	17.3	17.8	17.6	17.8	18.2	18.3	18.9
	17.0	17.1	17.6	17.6	18.3	18.1	18.2	18.6	18.7	19.4
X=12H    Y=4H	15.5	15.7	16.0	16.3	16.8	16.5	16.7	17.0	17.3	17.8
	16.2	16.4	16.8	16.9	17.5	17.2	17.4	17.8	17.9	18.5
	16.7	16.8	17.2	17.3	18.0	17.7	17.8	18.3	18.4	19.0
Variations with the objerver 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	0.6/-0.7					0.6/-0.6				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.3					2.2				

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	35785.1	35785.1	35785.1	35785.1
γ 5.0	19107.8	31619.1	25720.4	15153.5
γ 10.0	3937.8	9984.2	6634.0	3304.1
γ 15.0	1413.0	2259.8	1822.8	1250.3
γ 20.0	877.3	1104.9	923.5	740.6
γ 25.0	630.5	776.4	610.4	491.0
γ 30.0	432.9	554.7	396.7	334.4
γ 35.0	286.5	378.5	279.1	221.1
γ 40.0	158.2	221.5	183.8	124.4
γ 45.0	84.1	108.3	90.3	76.5
γ 50.0	61.8	74.8	68.1	56.4
γ 55.0	48.4	55.0	51.3	46.6
γ 60.0	38.0	44.5	42.2	37.4
γ 65.0	29.6	34.7	33.7	29.0
γ 70.0	22.9	26.9	25.3	21.6
γ 75.0	17.0	20.2	19.1	15.8
γ 80.0	12.0	14.6	13.8	11.6
γ 85.0	8.4	10.5	10.5	8.6
γ 90.0	6.2	6.9	7.1	5.0
γ 95.0	4.9	5.2	4.8	3.1
γ 100.0	3.9	4.4	3.1	2.2
γ 105.0	3.7	4.1	2.7	2.4
γ 110.0	3.1	3.6	2.8	2.9
γ 115.0	2.8	2.9	2.6	3.0
γ 120.0	2.1	2.0	3.2	3.4
γ 125.0	3.0	1.9	3.6	4.3
γ 130.0	3.6	2.8	4.6	4.9
γ 135.0	6.0	4.2	5.7	7.2
γ 140.0	9.4	6.6	8.5	12.0
γ 145.0	14.4	11.7	13.8	17.0
γ 150.0	18.1	15.9	18.0	18.9
γ 155.0	19.5	18.3	19.8	19.2
γ 160.0	20.0	18.5	20.7	18.7
γ 165.0	20.3	19.1	20.8	19.2
γ 170.0	19.7	19.7	20.9	19.4
γ 175.0	17.1	19.0	18.7	16.1
γ 180.0	15.8	15.8	15.8	15.8