

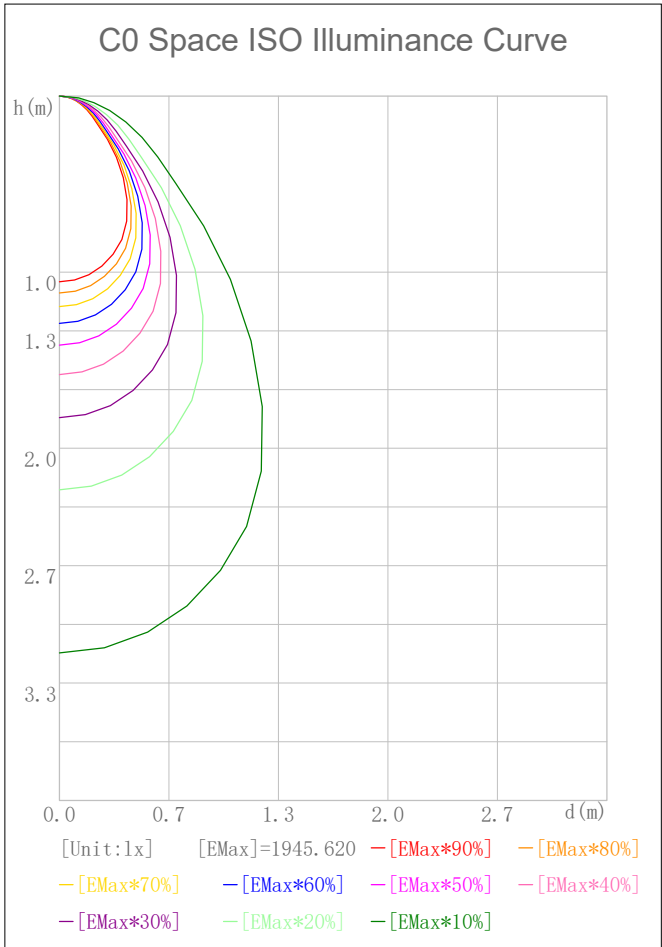
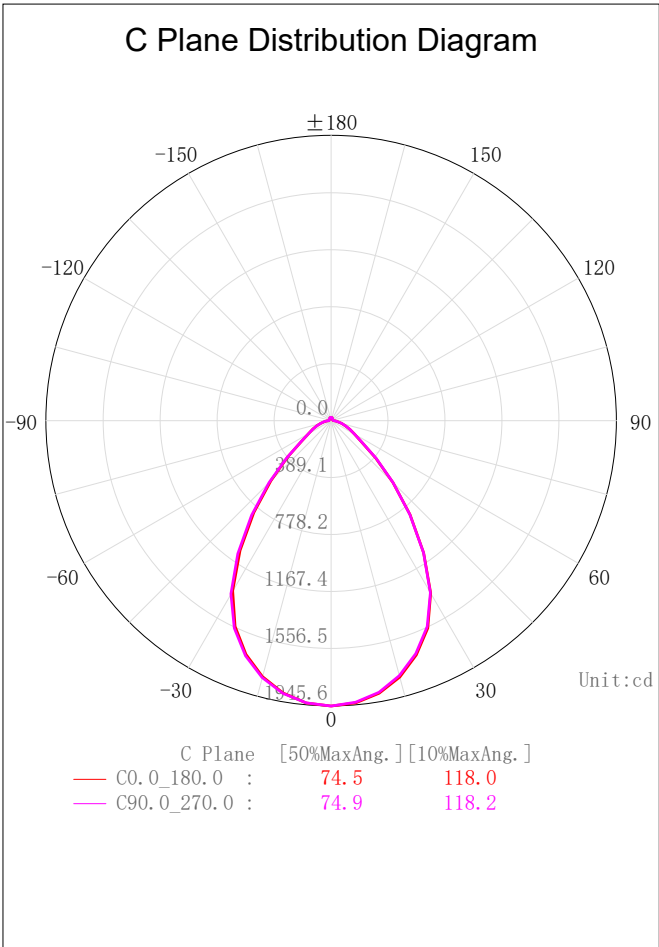
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL50-35-XX-01 4000K RA90		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/03
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):0.010	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

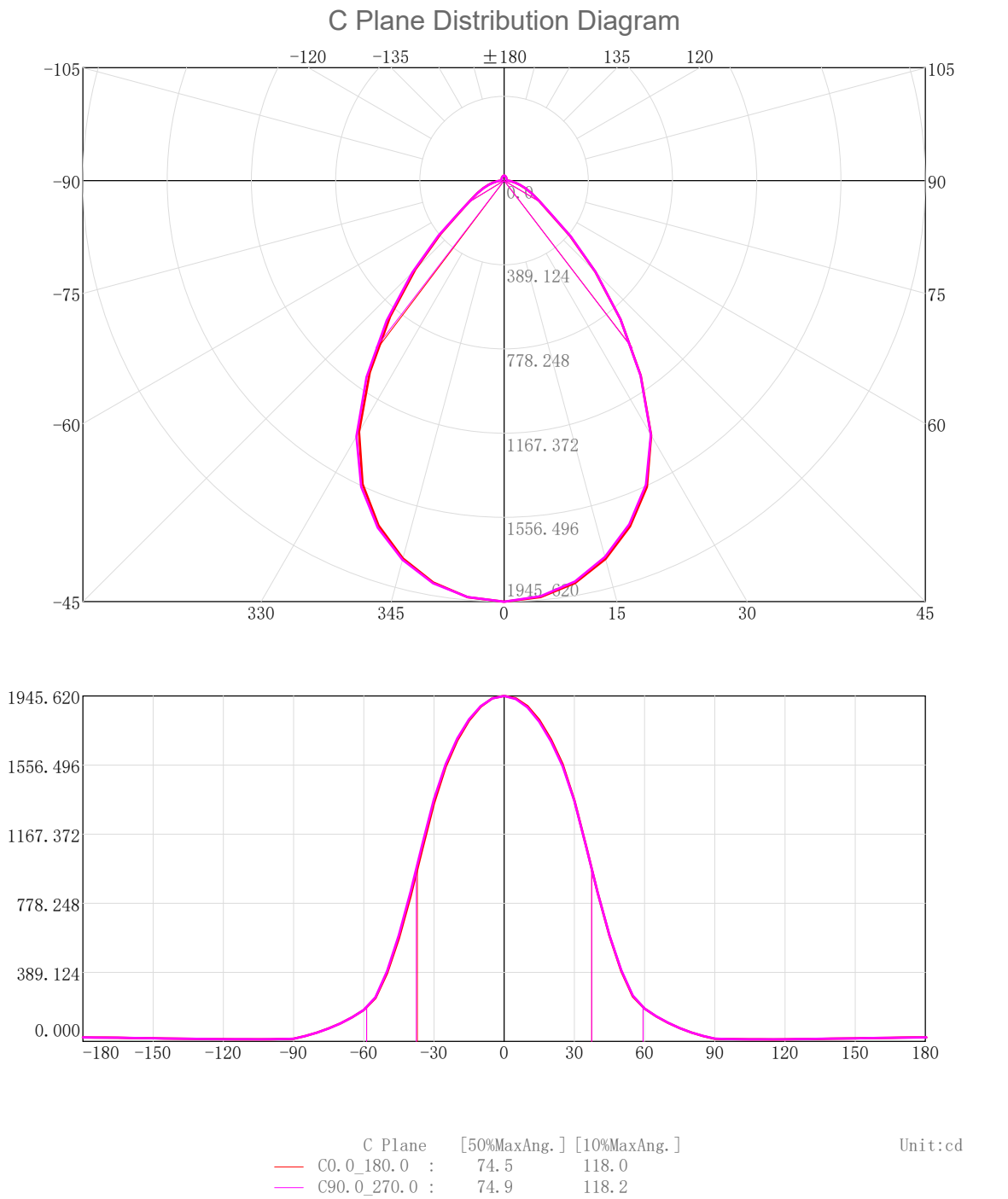
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 3134.410	Luminary Flux(lm): 3134.411	Field Angle(10%Imax): 118.0(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3042.060lm 97.05%	
Rated Voltage(V):	Luminary EER(lm/W): 91.276	Up Lumens&Percent: 92.351lm 2.95%	
Tested Power(W): 34.340	Max. Candela(cd): 1945.620	S/MH: C0_a180=1.076 C90_270=1.080	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.6, 0.149, 0.960	Beam Angle(50%Imax): 74.5(°)	ErP ϕ use(90°): 2344.082lm	
Lamp Size (W*L*H):0.110m*0.110m*0.000m	Left=-37.1°, Right=37.4°	IRF(%): 156.812	



2D Plane Light Intensity Distribution Curve

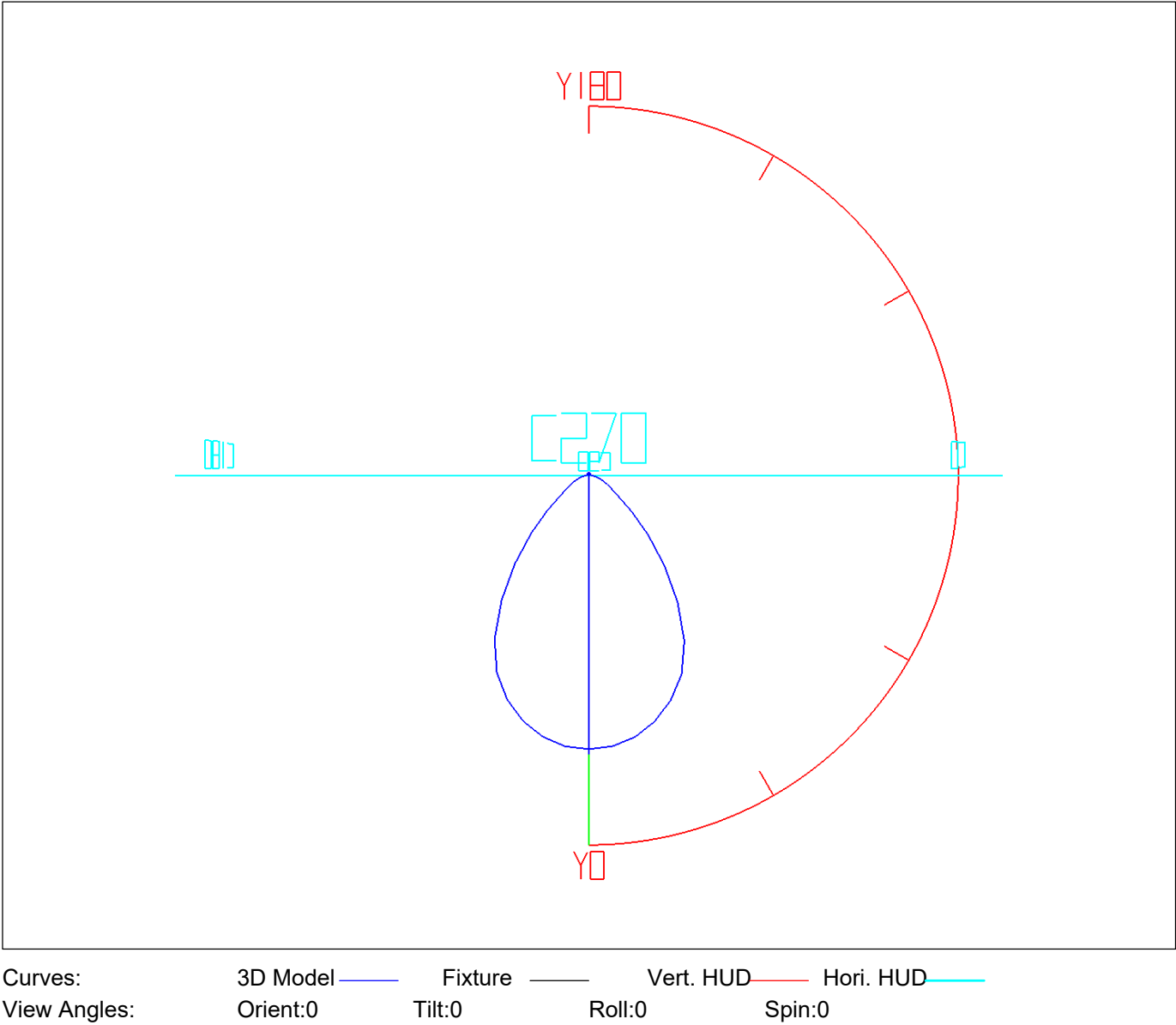
Lum. Name:DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/03



3D Light Intensity Distribution Modal

Lum. Name:DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/03

3D Light Intensity Distribution Modal

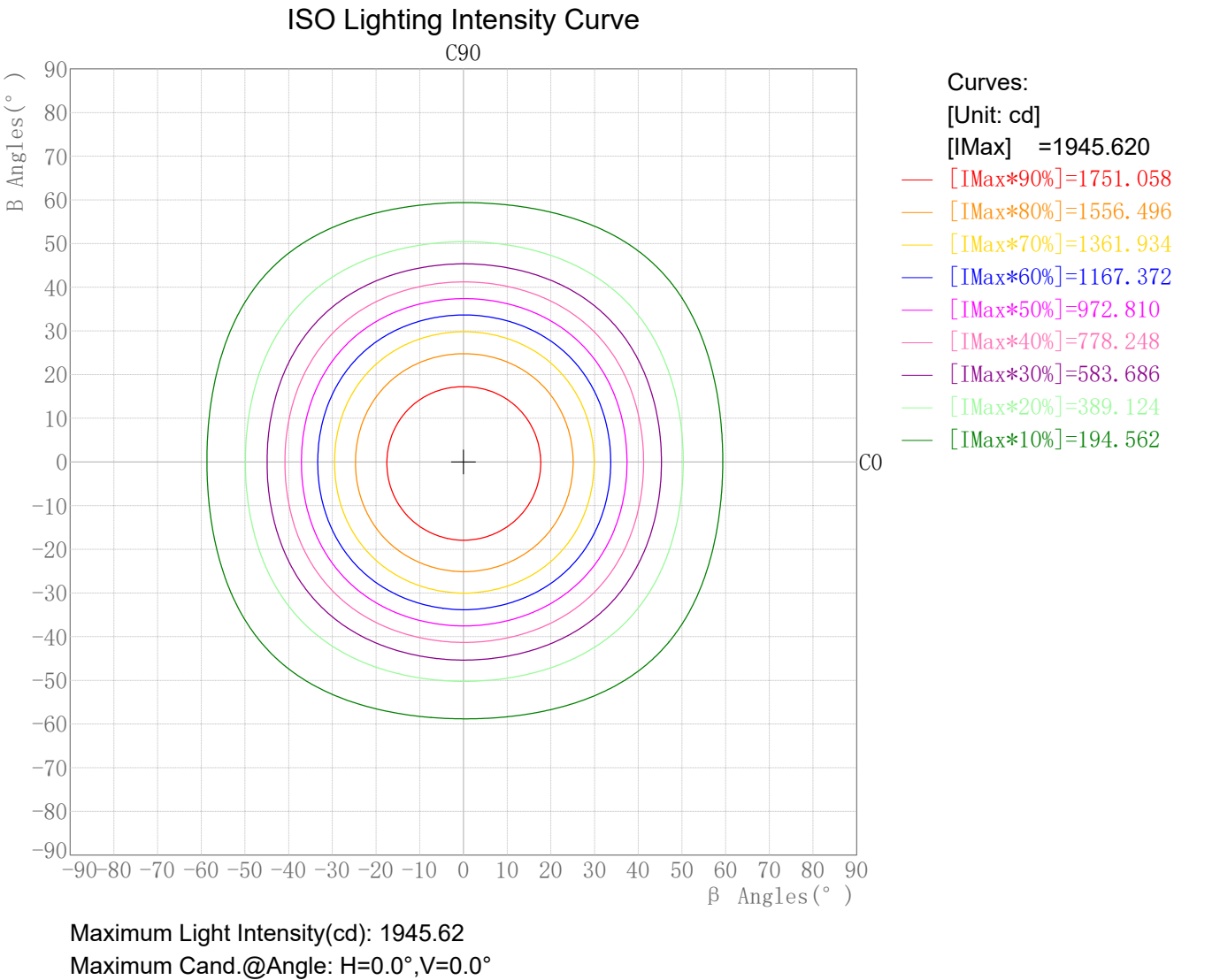


Zonal Flux Tabulation

Zone( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-5. 0	46. 34	46. 34	1. 48	1. 48
5. 0-10. 0	136. 53	182. 87	4. 36	5. 83
10. 0-15. 0	219. 10	401. 97	6. 99	12. 82
15. 0-20. 0	288. 93	690. 91	9. 22	22. 04
20. 0-25. 0	341. 19	1032. 09	10. 89	32. 93
25. 0-30. 0	368. 19	1400. 29	11. 75	44. 67
30. 0-35. 0	360. 98	1761. 26	11. 52	56. 19
35. 0-40. 0	322. 10	2083. 36	10. 28	66. 47
40. 0-45. 0	264. 17	2347. 53	8. 43	74. 90
45. 0-50. 0	199. 64	2547. 17	6. 37	81. 26
50. 0-55. 0	140. 55	2687. 72	4. 48	85. 75
55. 0-60. 0	100. 05	2787. 77	3. 19	88. 94
60. 0-65. 0	77. 91	2865. 68	2. 49	91. 43
65. 0-70. 0	61. 44	2927. 12	1. 96	93. 39
70. 0-75. 0	46. 57	2973. 68	1. 49	94. 87
75. 0-80. 0	33. 45	3007. 13	1. 07	95. 94
80. 0-85. 0	22. 14	3029. 28	0. 71	96. 65
85. 0-90. 0	12. 79	3042. 06	0. 41	97. 05
90. 0-95. 0	8. 08	3050. 14	0. 26	97. 31
95. 0-100. 0	7. 23	3057. 37	0. 23	97. 54
100. 0-105. 0	6. 74	3064. 12	0. 22	97. 76
105. 0-110. 0	6. 48	3070. 59	0. 21	97. 96
110. 0-115. 0	6. 24	3076. 83	0. 20	98. 16
115. 0-120. 0	6. 10	3082. 94	0. 19	98. 36
120. 0-125. 0	6. 07	3089. 01	0. 19	98. 55
125. 0-130. 0	6. 05	3095. 06	0. 19	98. 74
130. 0-135. 0	5. 96	3101. 02	0. 19	98. 93
135. 0-140. 0	5. 78	3106. 80	0. 18	99. 12
140. 0-145. 0	5. 54	3112. 34	0. 18	99. 30
145. 0-150. 0	5. 18	3117. 52	0. 17	99. 46
150. 0-155. 0	4. 71	3122. 23	0. 15	99. 61
155. 0-160. 0	4. 11	3126. 33	0. 13	99. 74
160. 0-165. 0	3. 39	3129. 72	0. 11	99. 85
165. 0-170. 0	2. 55	3132. 28	0. 08	99. 93
170. 0-175. 0	1. 59	3133. 87	0. 05	99. 98
175. 0-180. 0	0. 54	3134. 41	0. 02	100. 00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03

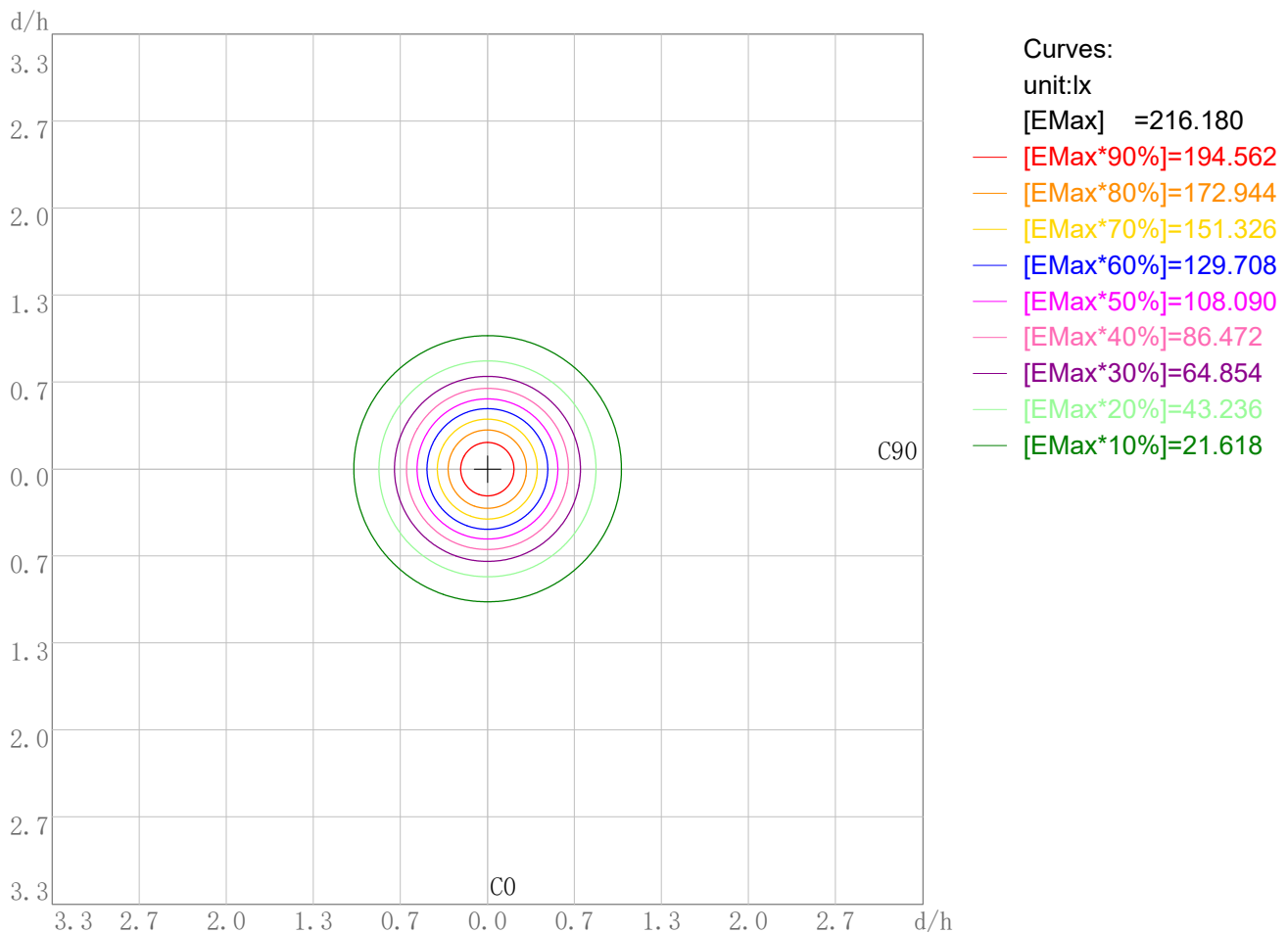


**Photometric Filename:DL50-35-XX-01 4000K RA90.IES**

## Plane ISO-Illuminance Diagram

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine: GON-2000	Test Date: 2022/08/03

## Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

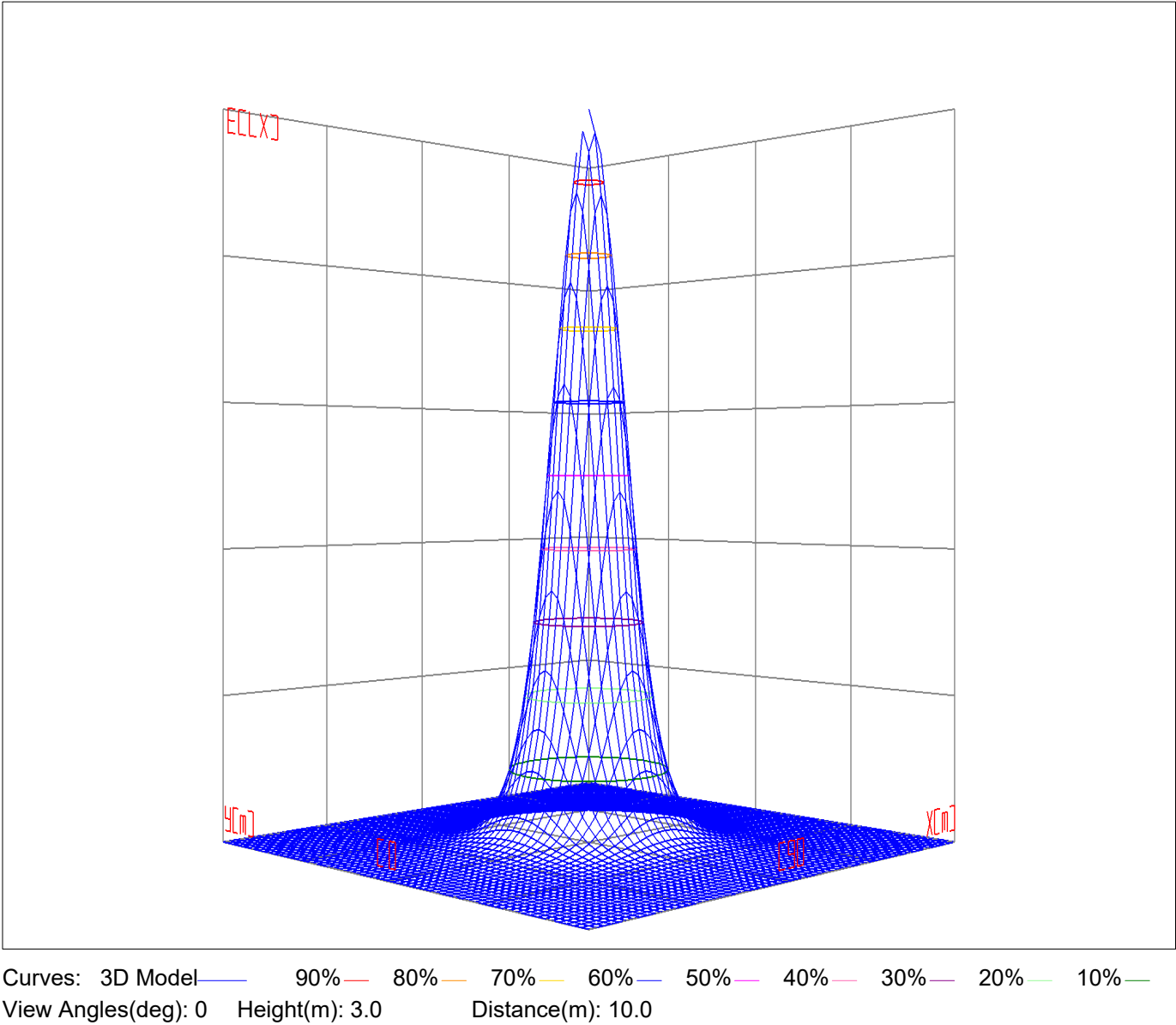
Working Plane Maximum Illuminance(lx): 216.18

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

3D Plane ISO Illuminance Diagram

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03

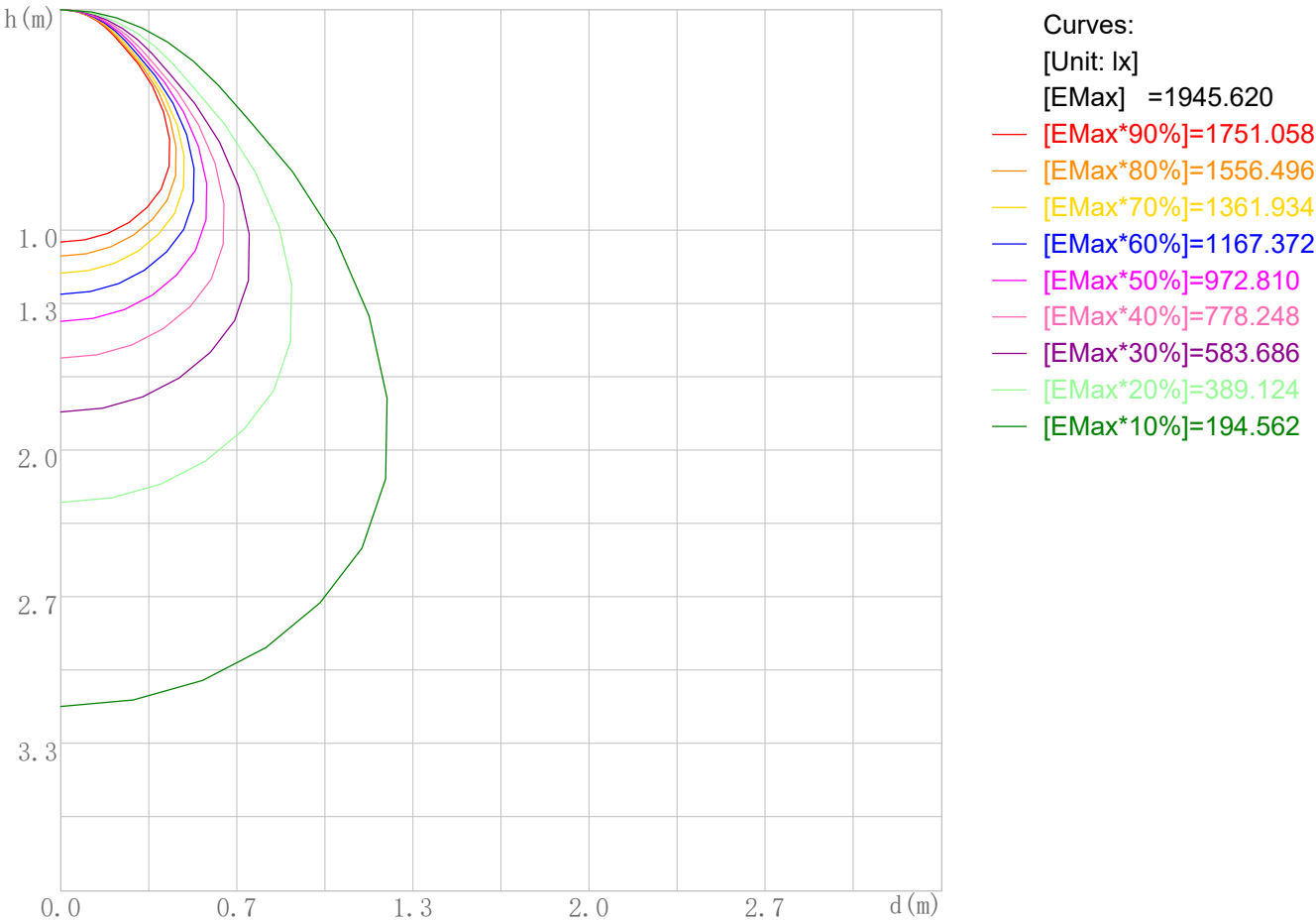
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03

Space ISO Illuminance Curve

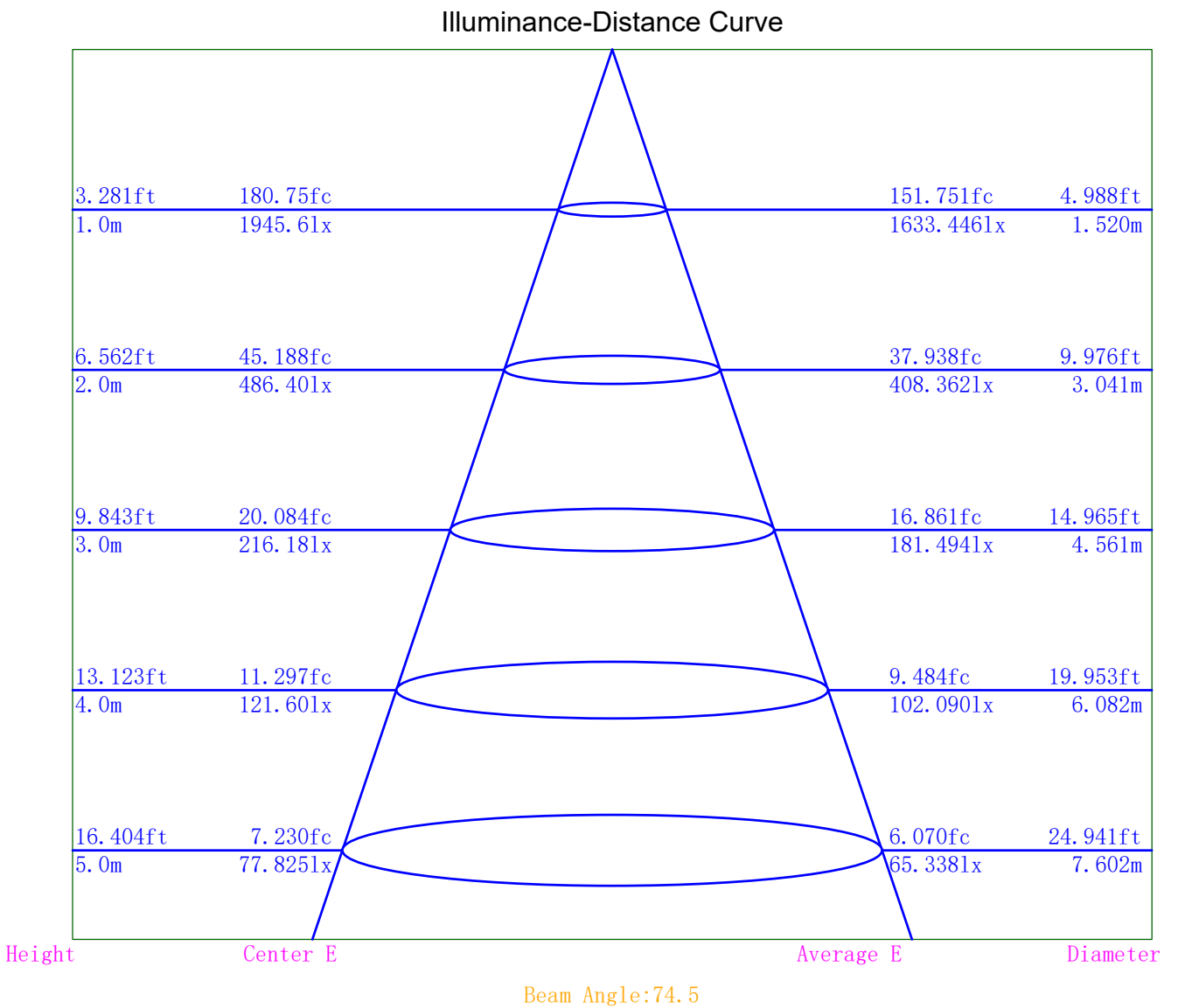


Space Plane Maximum Illuminance and @Angle:1945.62lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:1945.620cd,0eg



Illuminance-Distance Diagram

Lum. Name:DL50-35-XX-01 4000K RA90	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03



Indoor Luminance Limiting Curves

Lum. Name:DL50-35-XX-01 4000K RA90	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/03

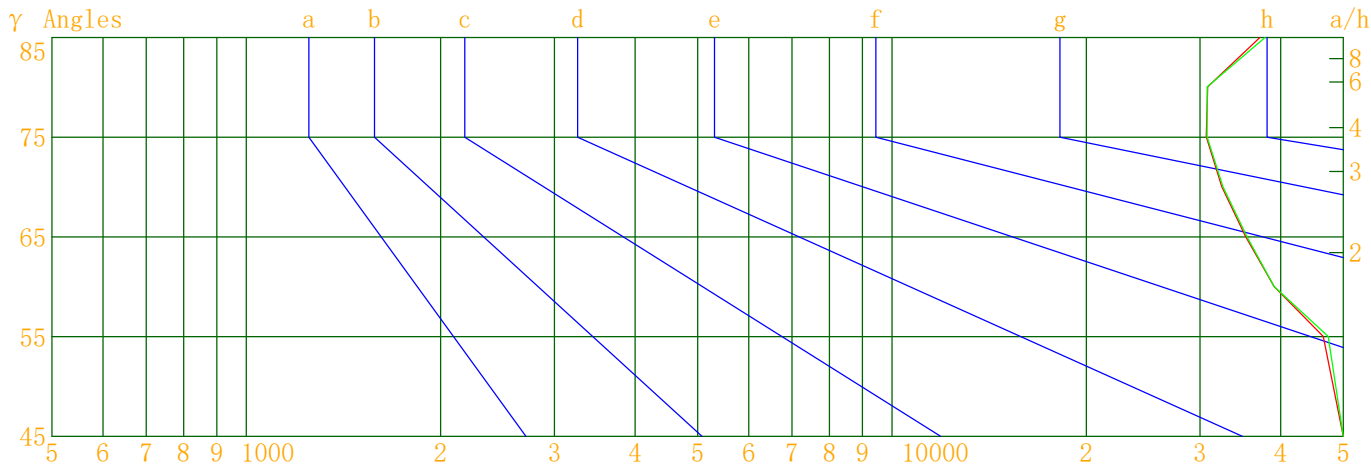
Glare Grade Table

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	88663	65079	46555	39080	35304	32422	30672	30825	37127
C90	88979	65782	47380	39065	35454	32548	30764	30782	37813

Luminance Limiting Curve



Luminous Size:

Length(m)=-0.110

Width(m)=-0.110

Height(m)=0.000

Area(m^2)=0.009503

Luminous Type:

Without Luminous Side

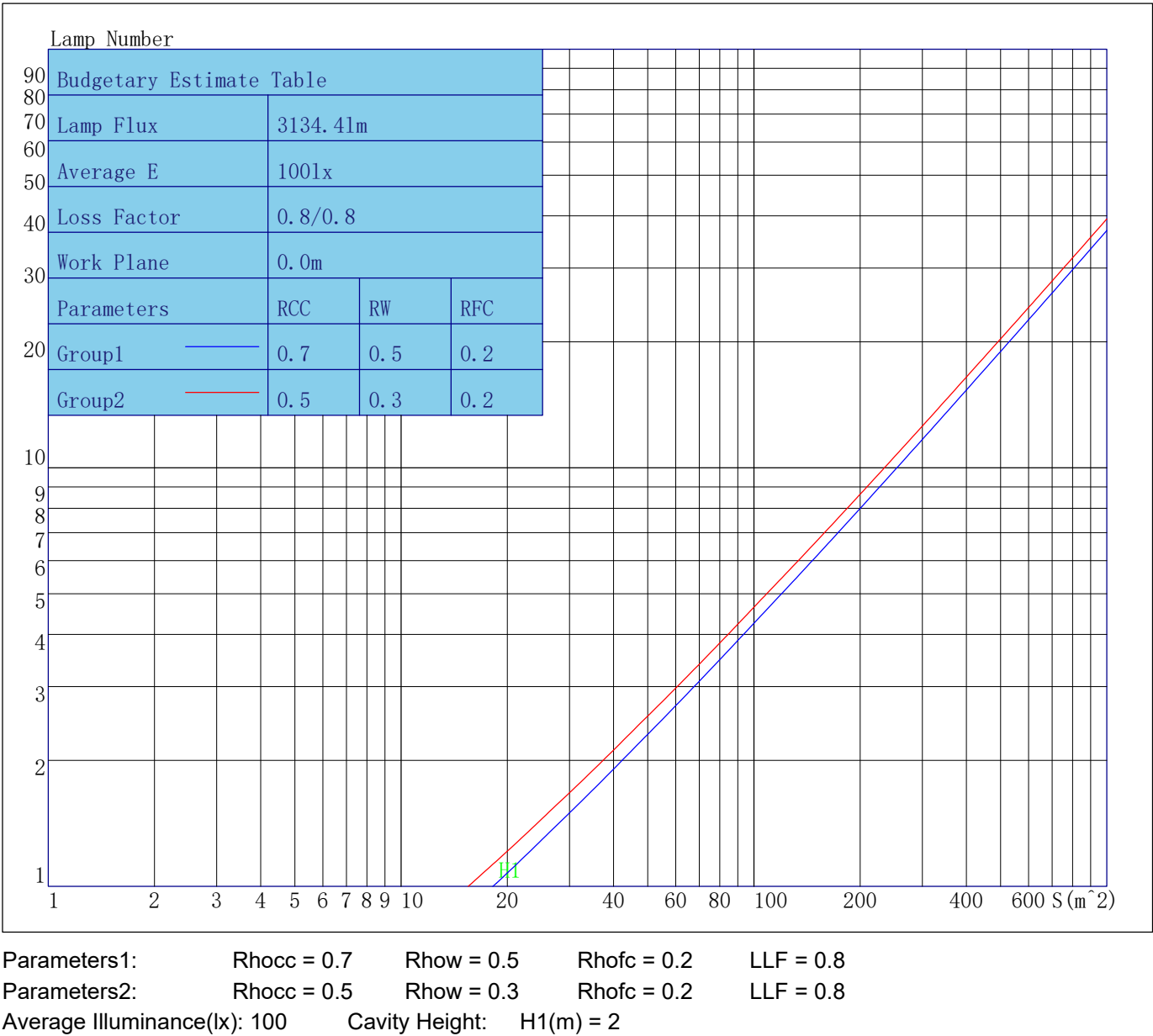
Luminous Curves:

C0-C180 Color: —

C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name:DL50-35-XX-01 4000K RA90	Lum. Catalog:	Test ID:01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03



Indoor Coefficient of Utilization Table

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	111	107	103	100	108	104	101	98	100	97	95	95	93	92	91	90	88	86
2	103	96	91	86	100	94	89	85	90	86	83	87	84	81	84	81	78	76
3	96	87	81	76	93	86	80	75	82	77	73	79	75	72	77	73	70	68
4	89	79	72	67	87	78	71	66	75	70	65	73	68	64	70	66	63	61
5	83	73	65	60	81	71	65	59	69	63	58	67	62	58	65	60	57	55
6	78	67	59	54	76	66	59	54	64	58	53	62	56	52	60	55	52	50
7	73	62	54	49	71	61	54	49	59	53	48	57	52	48	56	51	47	45
8	69	57	50	45	67	56	49	44	55	48	44	53	48	44	52	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	35

Unified Glare Rating Table

Lum. Name: DL50-35-XX-01 4000K RA90	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/03

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	25.1	26.3	25.5	26.7	27.1	25.1	26.3	25.5	26.7	27.1
	25.7	26.8	26.1	27.2	27.6	25.7	26.8	26.1	27.2	27.6
	26.0	27.0	26.4	27.4	27.9	26.0	27.0	26.4	27.4	27.9
	26.2	27.2	26.7	27.6	28.1	26.3	27.2	26.7	27.7	28.1
	26.4	27.3	26.8	27.7	28.2	26.4	27.3	26.9	27.7	28.2
	26.5	27.4	27.0	27.8	28.3	26.5	27.4	27.0	27.8	28.3
X=4H    Y=2H	25.3	26.3	25.7	26.7	27.2	25.3	26.3	25.7	26.7	27.2
	26.1	26.9	26.5	27.4	27.9	26.1	26.9	26.5	27.4	27.9
	26.5	27.3	27.0	27.7	28.3	26.5	27.3	27.0	27.7	28.3
	26.9	27.6	27.4	28.1	28.6	26.9	27.6	27.4	28.1	28.6
	27.1	27.7	27.6	28.2	28.8	27.1	27.7	27.6	28.2	28.8
	27.3	27.8	27.8	28.4	28.9	27.3	27.8	27.8	28.4	28.9
X=8H    Y=4H	26.6	27.2	27.1	27.7	28.3	26.6	27.3	27.1	27.8	28.3
	27.2	27.7	27.7	28.2	28.8	27.2	27.7	27.7	28.2	28.9
	27.4	27.9	28.0	28.5	29.0	27.4	27.9	28.0	28.5	29.0
	27.7	28.2	28.3	28.7	29.3	27.8	28.2	28.3	28.7	29.4
X=12H    Y=4H	26.6	27.2	27.2	27.7	28.3	26.6	27.2	27.2	27.7	28.3
	27.2	27.7	27.8	28.2	28.8	27.2	27.7	27.8	28.2	28.8
	27.5	27.9	28.1	28.5	29.1	27.5	28.0	28.1	28.5	29.1
Variations with the objerver position at spacings										
S=1.0H	0.3/−0.3					0.4/−0.4				
S=1.5H	0.6/−0.6					0.6/−0.6				
S=2.0H	0.8/−0.9					0.8/−0.9				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	1.9					1.9				

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	1945.62	1945.62	1945.62	1945.62
γ 5.0	1931.52	1927.82	1932.27	1931.61
γ 10.0	1887.84	1880.94	1885.52	1888.89
γ 15.0	1809.90	1800.01	1807.21	1813.95
γ 20.0	1700.29	1689.65	1695.86	1706.64
γ 25.0	1560.84	1550.14	1547.42	1561.39
γ 30.0	1358.20	1355.12	1340.37	1364.33
γ 35.0	1100.51	1098.14	1081.08	1107.56
γ 40.0	836.95	836.67	818.50	842.89
γ 45.0	595.80	597.93	579.71	598.51
γ 50.0	397.55	401.84	384.66	395.92
γ 55.0	253.76	258.26	244.34	249.27
γ 60.0	185.70	185.62	177.03	177.41
γ 65.0	141.79	142.39	136.05	135.90
γ 70.0	105.38	105.79	101.76	101.53
γ 75.0	75.44	75.67	73.86	73.17
γ 80.0	50.87	50.80	50.32	49.90
γ 85.0	30.75	31.32	30.94	31.05
γ 90.0	15.66	15.87	15.48	15.71
γ 95.0	13.92	13.95	13.48	13.97
γ 100.0	12.77	12.73	12.59	13.08
γ 105.0	12.21	12.49	12.31	12.63
γ 110.0	12.12	12.24	12.28	12.81
γ 115.0	11.83	12.26	12.24	12.80
γ 120.0	12.44	12.65	12.97	13.20
γ 125.0	13.15	13.61	13.35	13.74
γ 130.0	13.99	14.19	14.33	14.91
γ 135.0	14.78	15.11	15.24	15.44
γ 140.0	15.81	15.88	16.30	16.36
γ 145.0	17.01	16.95	17.27	17.13
γ 150.0	17.92	17.95	18.09	18.43
γ 155.0	19.04	18.96	19.16	19.25
γ 160.0	20.08	19.79	20.24	20.13
γ 165.0	21.02	21.02	21.18	21.16
γ 170.0	22.00	21.84	22.11	21.72
γ 175.0	22.69	22.49	22.63	22.52
γ 180.0	22.85	22.85	22.85	22.85