

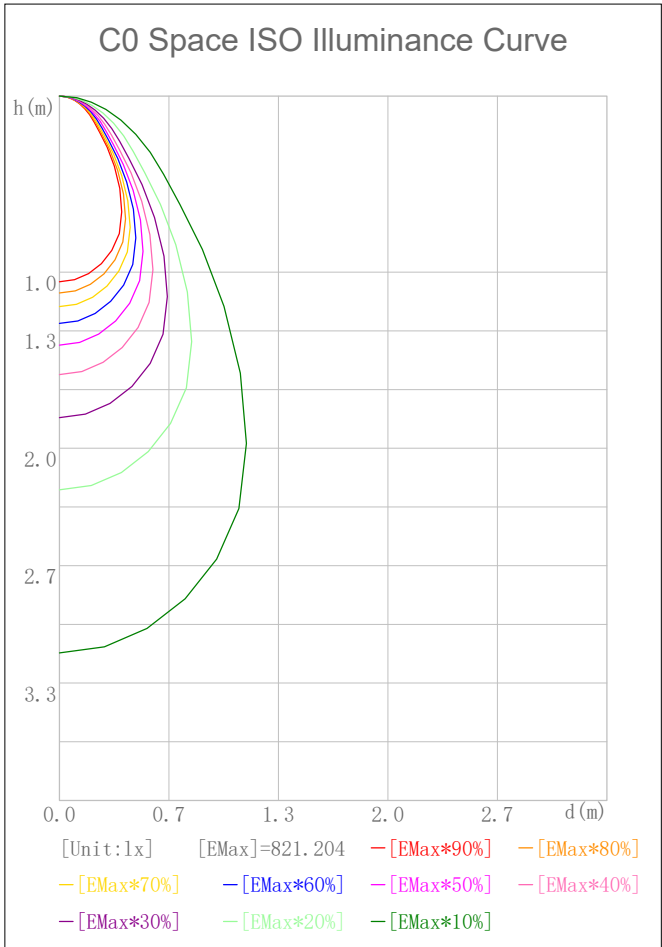
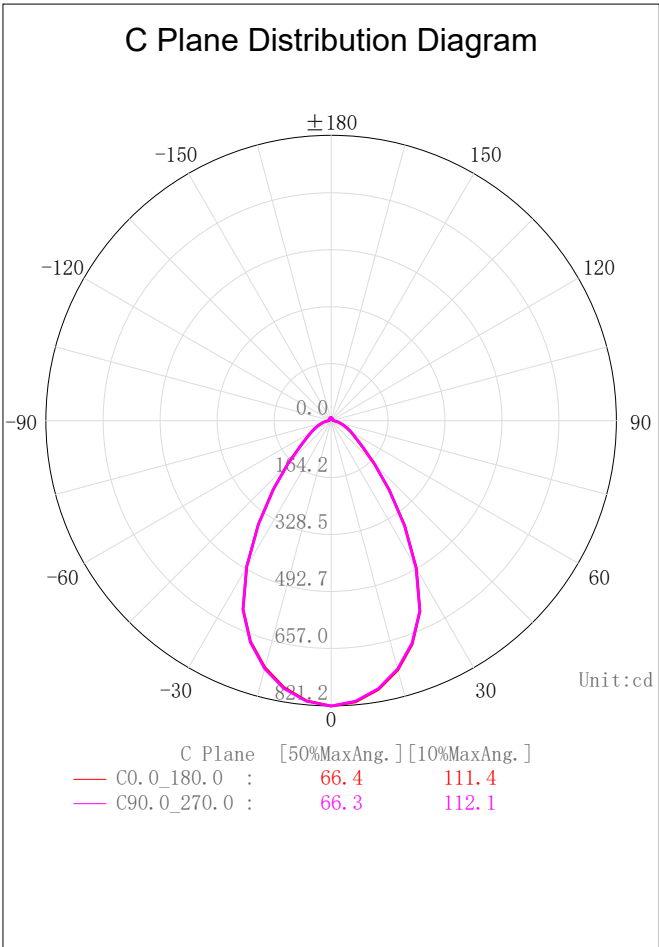
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL50-15-XX-01 4000K RA90		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/02
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):0.055m*-0.055m*0.000m		Lum. Area (m2):0.002	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

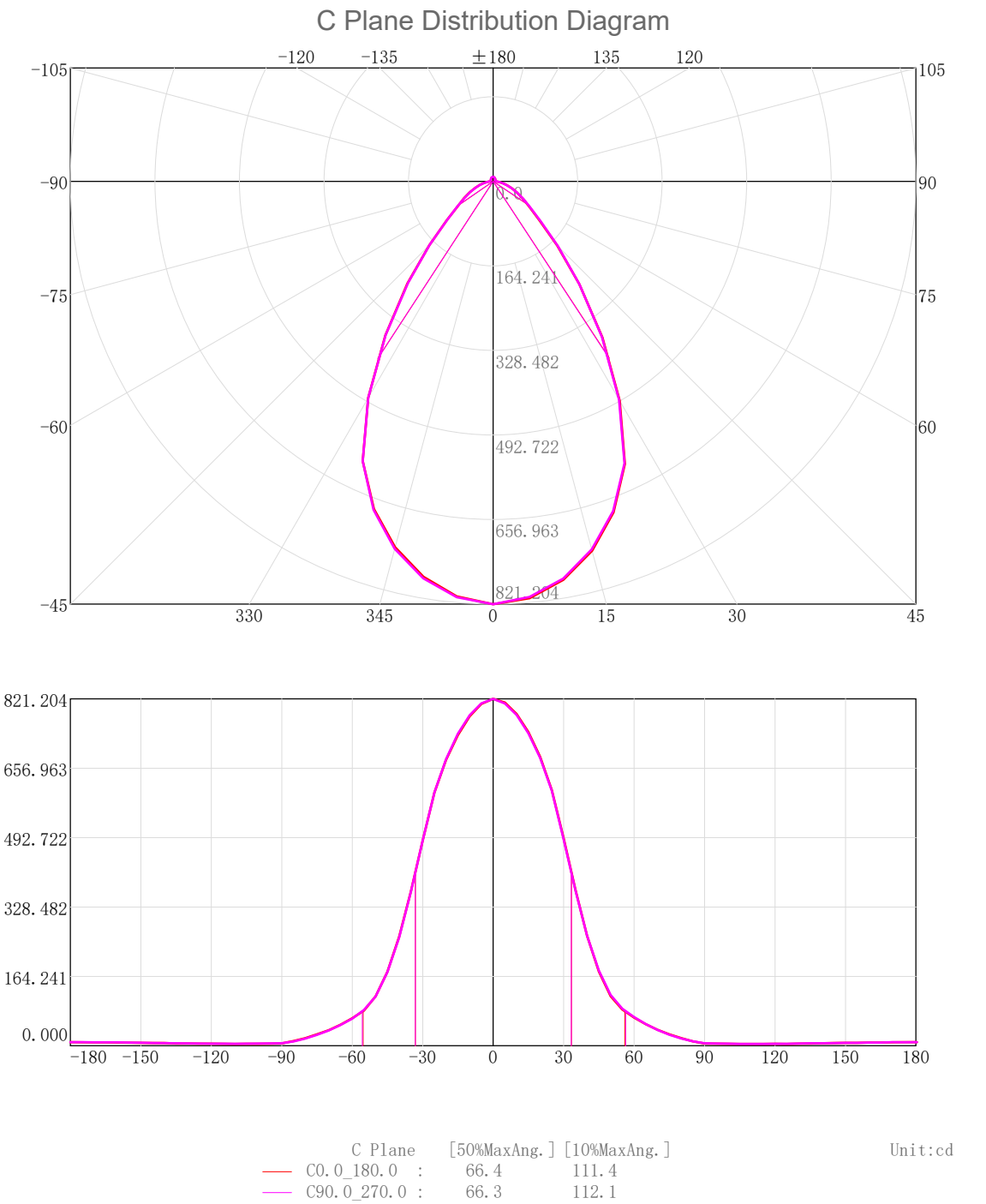
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1133.140	Luminary Flux(lm): 1133.142	Field Angle(10%Imax): 111.4(° )	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1097.445lm 96.85%	
Rated Voltage(V):	Luminary EER(lm/W): 77.400	Up Lumens&Percent: 35.698lm 3.15%	
Tested Power(W): 14.640	Max. Candela(cd): 821.204	S/MH: C0_a180=0.995 C90_270=0.994	
Lamps' Inside: 1	Max Cand@Ang. (° ) : C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):240.0, 0.062, 0.972	Beam Angle(50%Imax): 66.4(° )	ErP ϕ use(90° ) : 866.981lm	
Lamp Size (W*L*H):0.055m*-0.055m*0.000m	Left=-33.1° , Right=33.3°	IRF(%): 182.074	



2D Plane Light Intensity Distribution Curve

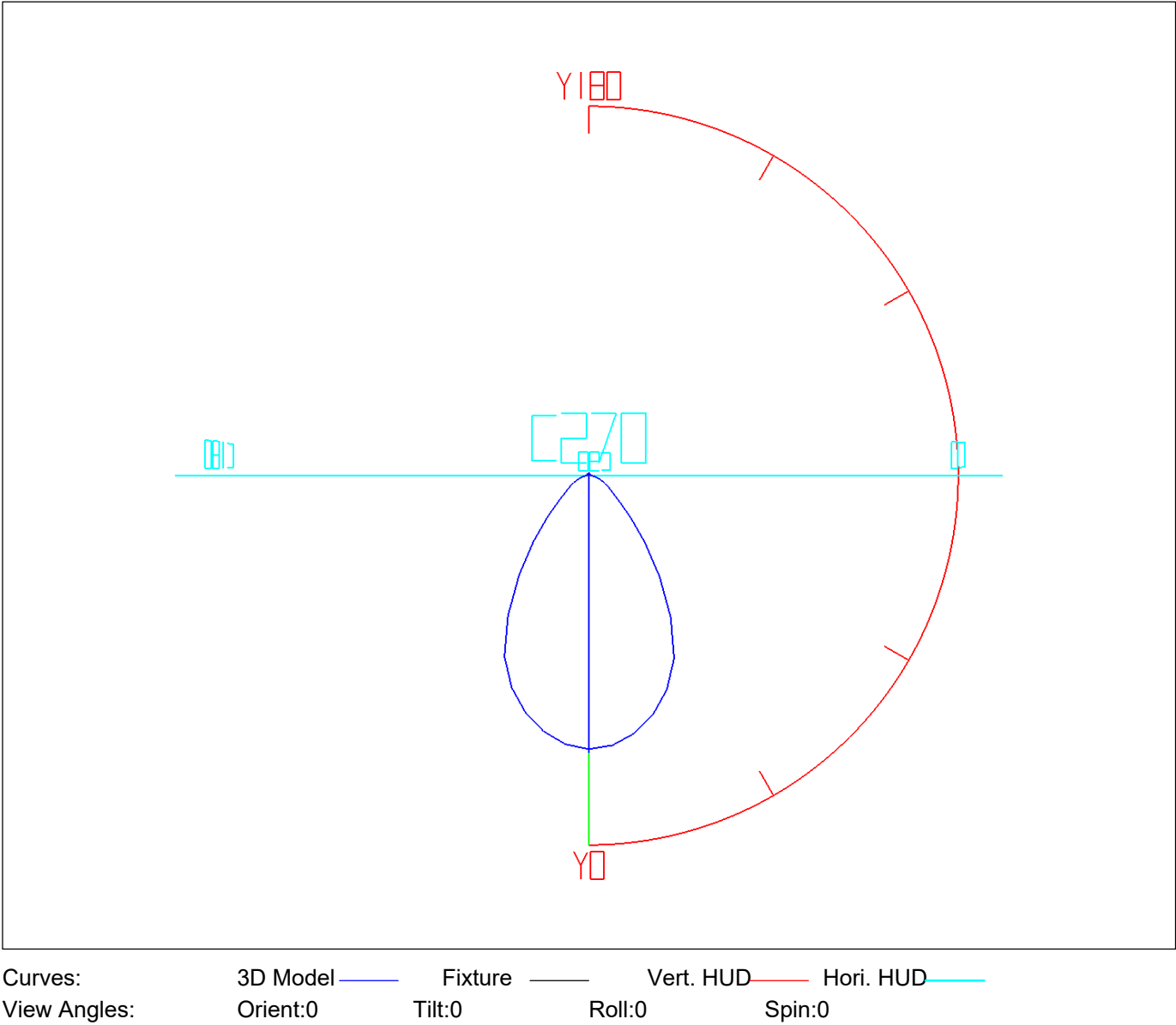
Lum. Name:DL50-15-XX-01 4000K RA90	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/02



3D Light Intensity Distribution Modal

Lum. Name:DL50-15-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:2022/08/02

3D Light Intensity Distribution Modal

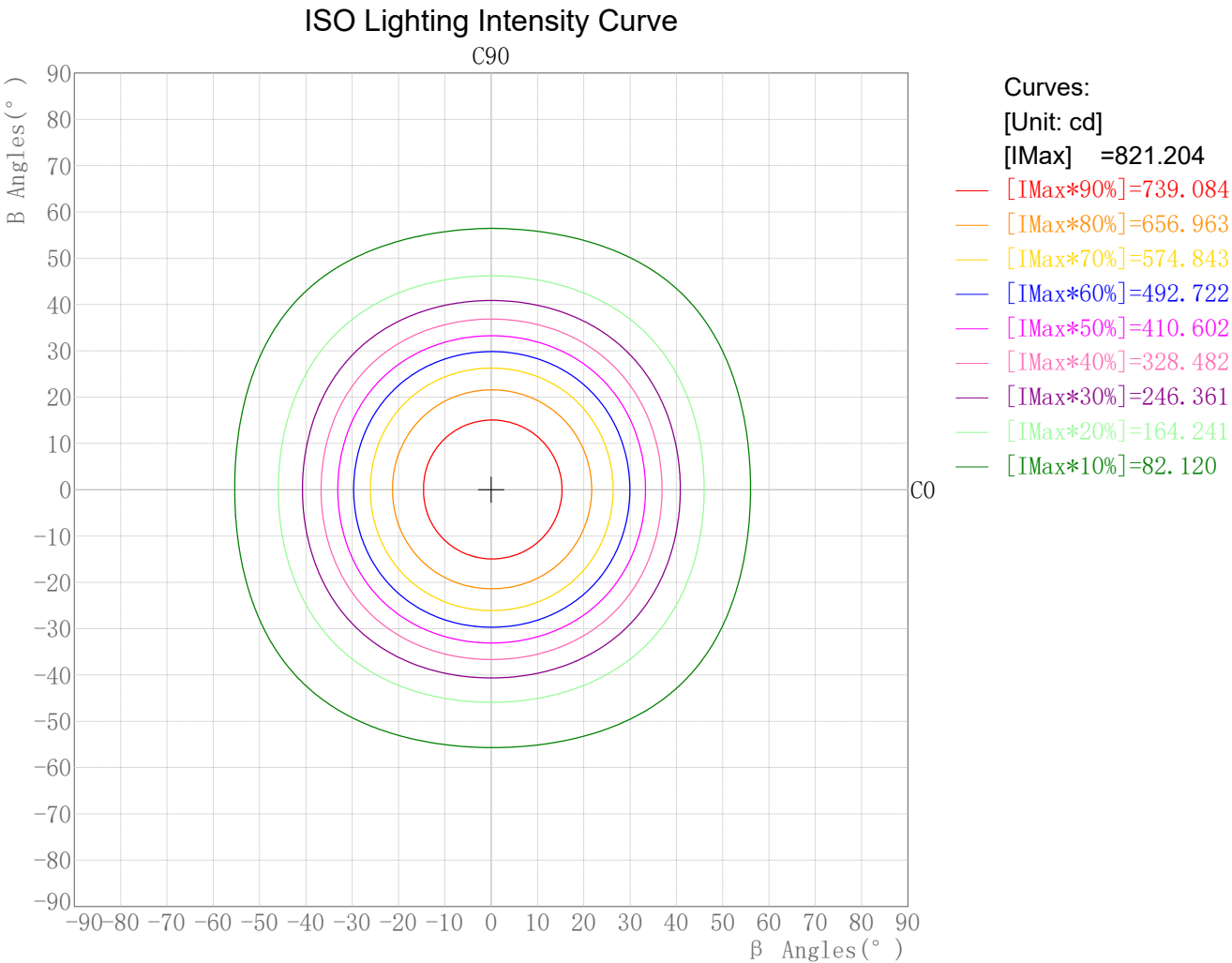


Zonal Flux Tabulation

Zone( γ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-5. 0	19. 51	19. 51	1. 72	1. 72
5. 0-10. 0	57. 00	76. 51	5. 03	6. 75
10. 0-15. 0	90. 29	166. 80	7. 97	14. 72
15. 0-20. 0	116. 99	283. 78	10. 32	25. 04
20. 0-25. 0	134. 50	418. 28	11. 87	36. 91
25. 0-30. 0	137. 94	556. 22	12. 17	49. 09
30. 0-35. 0	125. 88	682. 11	11. 11	60. 20
35. 0-40. 0	104. 48	786. 59	9. 22	69. 42
40. 0-45. 0	80. 60	867. 19	7. 11	76. 53
45. 0-50. 0	59. 39	926. 58	5. 24	81. 77
50. 0-55. 0	44. 24	970. 82	3. 90	85. 68
55. 0-60. 0	35. 06	1005. 88	3. 09	88. 77
60. 0-65. 0	28. 35	1034. 23	2. 50	91. 27
65. 0-70. 0	22. 22	1056. 45	1. 96	93. 23
70. 0-75. 0	16. 72	1073. 17	1. 48	94. 71
75. 0-80. 0	11. 92	1085. 09	1. 05	95. 76
80. 0-85. 0	7. 78	1092. 87	0. 69	96. 45
85. 0-90. 0	4. 57	1097. 44	0. 40	96. 85
90. 0-95. 0	3. 09	1100. 53	0. 27	97. 12
95. 0-100. 0	2. 83	1103. 36	0. 25	97. 37
100. 0-105. 0	2. 63	1105. 99	0. 23	97. 60
105. 0-110. 0	2. 47	1108. 46	0. 22	97. 82
110. 0-115. 0	2. 38	1110. 84	0. 21	98. 03
115. 0-120. 0	2. 36	1113. 20	0. 21	98. 24
120. 0-125. 0	2. 33	1115. 53	0. 21	98. 45
125. 0-130. 0	2. 28	1117. 81	0. 20	98. 65
130. 0-135. 0	2. 28	1120. 09	0. 20	98. 85
135. 0-140. 0	2. 26	1122. 35	0. 20	99. 05
140. 0-145. 0	2. 17	1124. 52	0. 19	99. 24
145. 0-150. 0	2. 04	1126. 56	0. 18	99. 42
150. 0-155. 0	1. 85	1128. 41	0. 16	99. 58
155. 0-160. 0	1. 61	1130. 02	0. 14	99. 72
160. 0-165. 0	1. 32	1131. 34	0. 12	99. 84
165. 0-170. 0	0. 98	1132. 32	0. 09	99. 93
170. 0-175. 0	0. 61	1132. 93	0. 05	99. 98
175. 0-180. 0	0. 21	1133. 14	0. 02	100. 00

Rectangle ISO Lighting Intensity Diagram

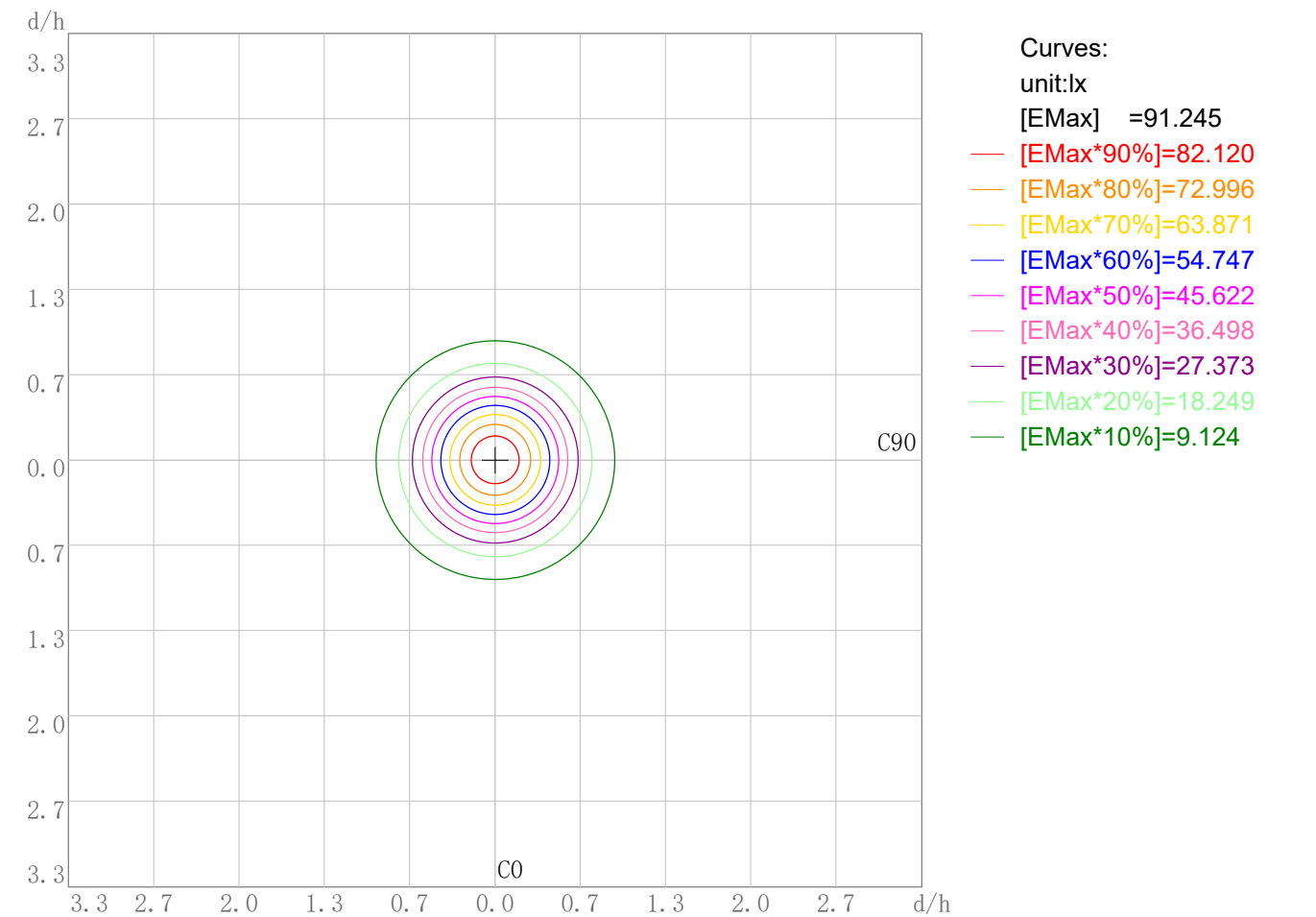
Lum. Name: DL50-15-XX-01 4000K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02



Plane ISO-Illuminance Diagram

Lum. Name:DL50-15-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: 2022/08/02

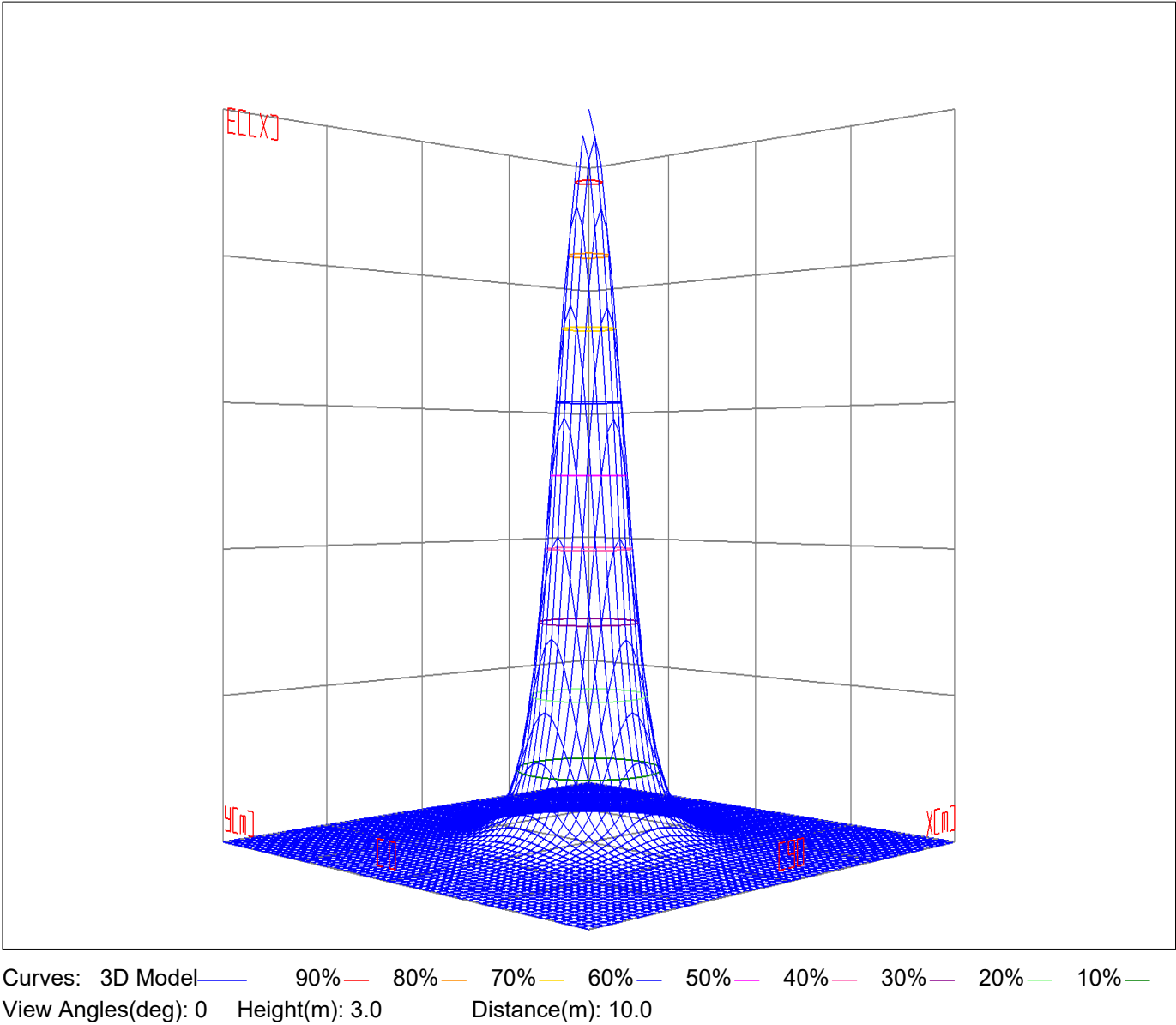
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: DL50-15-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: 2022/08/02

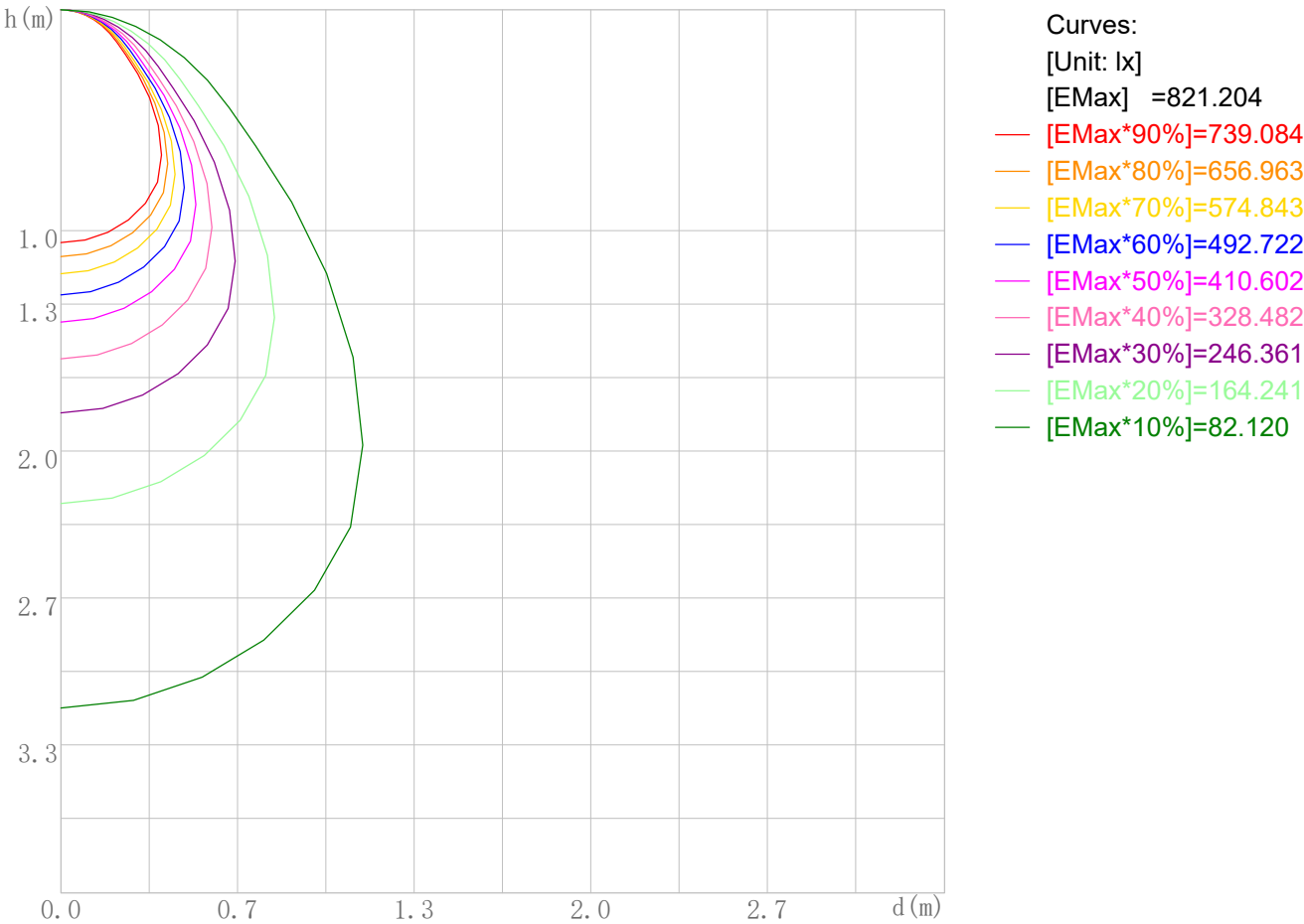
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL50-15-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: 2022/08/02

Space ISO Illuminance Curve

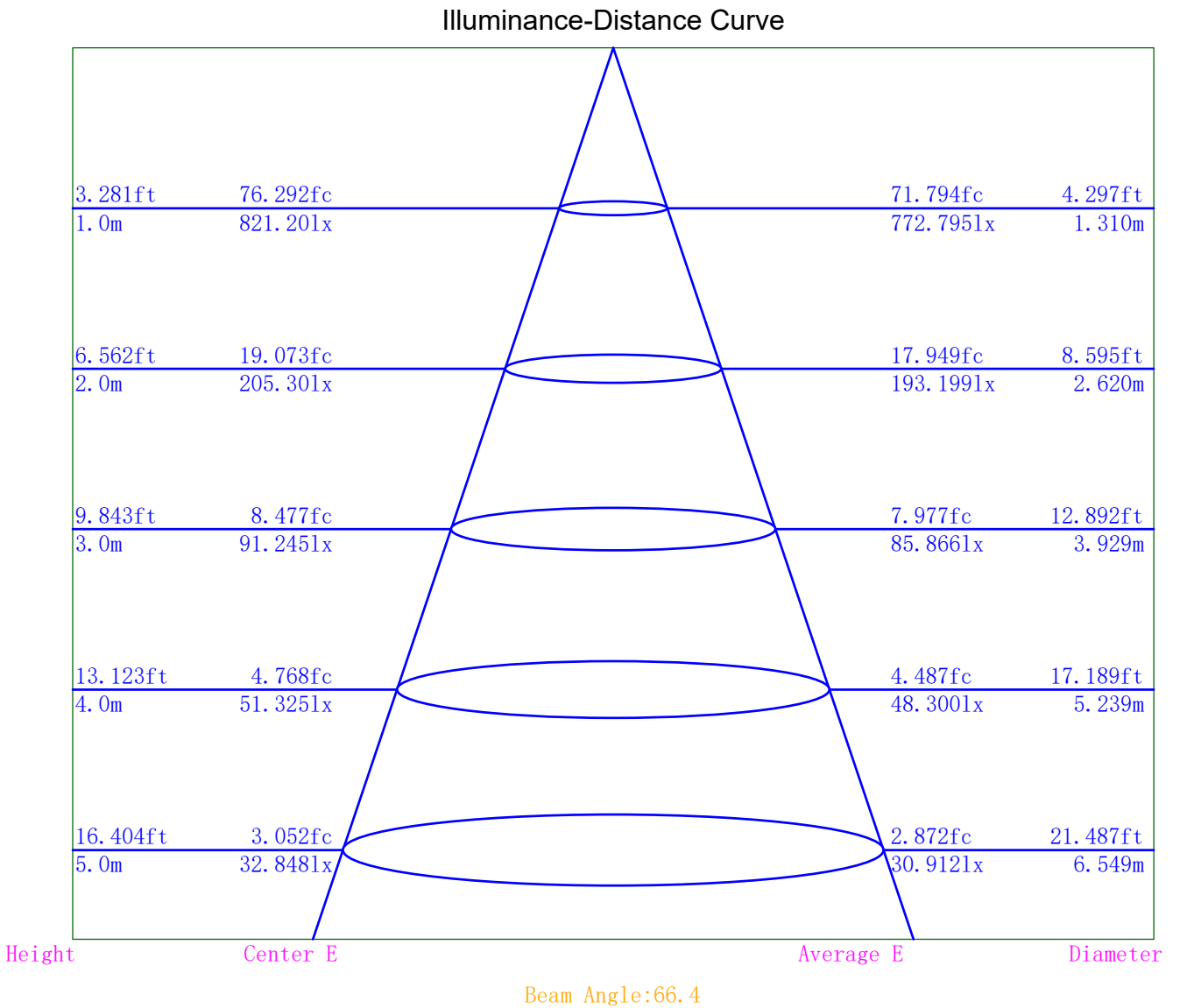


Space Plane Maximum Illuminance and @Angle:821.20lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:821.204cd,0deg



Illuminance-Distance Diagram

Lum. Name:DL50-15-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:2022/08/02



Indoor Luminance Limiting Curves

Lum. Name: DL50-15-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: 2022/08/02

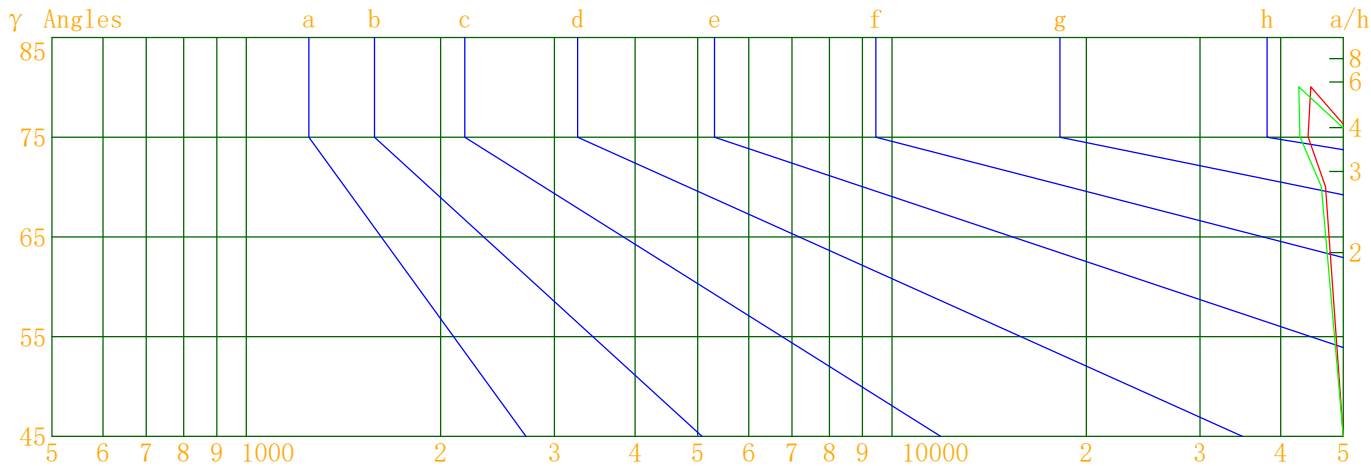
Glare Grade Table

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	104738	76842	63100	56293	51009	46923	44094	44539	51853
C90	106062	78770	64475	57318	51340	46232	42839	42663	51573

Luminance Limiting Curve



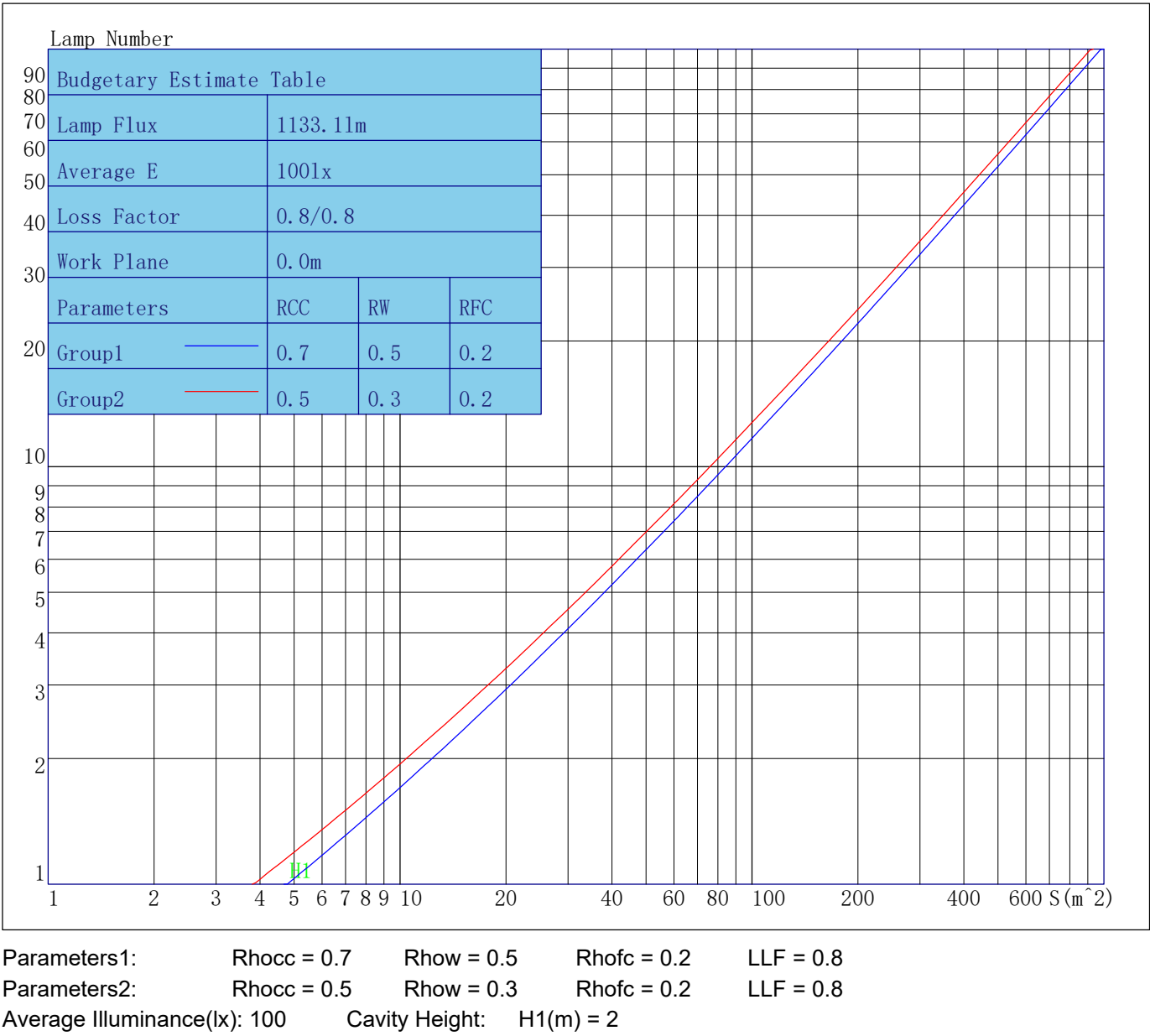
Luminous Size: Length(m)=-0.055 Width(m)=-0.055 Height(m)=0.000 Area(m^2)=0.002376

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:DL50-15-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: 2022/08/02



Indoor Coefficient of Utilization Table

Lum. Name:DL50-15-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:2022/08/02

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	104	101	108	104	102	99	100	97	95	95	94	92	91	90	89	86
2	103	97	92	87	101	95	90	86	91	87	84	87	84	81	84	81	79	77
3	96	88	82	77	94	86	81	76	83	78	74	80	76	73	77	74	71	69
4	90	81	74	68	88	79	73	68	76	71	66	74	69	65	72	68	64	62
5	84	74	67	61	82	73	66	61	70	65	60	68	63	59	66	62	58	57
6	79	68	61	56	77	67	60	55	65	59	55	63	58	54	62	57	53	52
7	74	63	56	51	73	62	55	51	61	55	50	59	54	50	58	53	49	47
8	70	59	52	47	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	40
10	63	51	44	40	61	51	44	40	50	44	40	49	43	39	48	43	39	38

Unified Glare Rating Table

Lum. Name: DL50-15-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: 2022/08/02

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	25.7	26.9	26.1	27.3	27.7	25.7	26.9	26.1	27.3	27.7
	26.4	27.5	26.9	27.9	28.4	26.5	27.5	26.9	27.9	28.4
	26.8	27.8	27.2	28.2	28.7	26.8	27.8	27.2	28.2	28.7
	27.1	28.0	27.6	28.5	28.9	27.1	28.0	27.6	28.5	28.9
	27.2	28.1	27.7	28.6	29.1	27.2	28.1	27.7	28.6	29.0
	27.4	28.2	27.9	28.7	29.2	27.3	28.2	27.8	28.6	29.1
X=4H    Y=2H	25.9	27.0	26.4	27.4	27.8	26.0	27.0	26.4	27.4	27.9
	26.9	27.7	27.4	28.2	28.7	26.9	27.8	27.4	28.2	28.7
	27.4	28.1	27.9	28.6	29.1	27.4	28.1	27.9	28.6	29.1
	27.8	28.5	28.3	29.0	29.5	27.8	28.5	28.3	29.0	29.5
	28.0	28.6	28.6	29.1	29.7	28.0	28.6	28.5	29.1	29.7
	28.2	28.8	28.8	29.3	29.9	28.2	28.7	28.7	29.3	29.8
X=8H    Y=4H	27.5	28.1	28.0	28.6	29.2	27.5	28.1	28.1	28.6	29.2
	28.1	28.6	28.7	29.2	29.8	28.1	28.6	28.7	29.1	29.8
	28.4	28.9	29.0	29.4	30.0	28.4	28.8	29.0	29.4	30.0
	28.7	29.1	29.3	29.7	30.3	28.7	29.1	29.3	29.6	30.3
X=12H    Y=4H	27.5	28.1	28.1	28.6	29.1	27.5	28.1	28.1	28.6	29.2
	28.2	28.6	28.7	29.1	29.7	28.1	28.6	28.7	29.1	29.7
	28.5	28.9	29.1	29.5	30.1	28.5	28.9	29.1	29.4	30.1
Variations with the objerver position at spacings										
S=1.0H	0.3/-0.3					0.4/-0.4				
S=1.5H	0.6/-0.7					0.7/-0.7				
S=2.0H	0.8/-0.9					0.9/-1.0				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.1					2.0				

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	821.20	821.20	821.20	821.20
γ 5.0	812.47	810.12	809.14	810.61
γ 10.0	785.61	783.36	779.84	782.68
γ 15.0	742.76	739.86	735.49	738.66
γ 20.0	684.03	681.35	677.05	678.75
γ 25.0	605.38	603.89	599.37	599.68
γ 30.0	491.77	488.97	485.41	485.52
γ 35.0	369.95	368.41	365.17	364.21
γ 40.0	260.68	260.77	258.80	256.88
γ 45.0	175.96	178.18	175.35	174.70
γ 50.0	117.35	120.29	117.06	116.88
γ 55.0	85.99	87.86	83.42	84.94
γ 60.0	66.87	68.09	65.21	64.33
γ 65.0	51.22	51.55	49.83	49.36
γ 70.0	38.13	37.57	36.99	36.43
γ 75.0	27.11	26.34	27.15	26.12
γ 80.0	18.38	17.60	18.29	17.21
γ 85.0	10.74	10.68	11.37	10.31
γ 90.0	5.38	6.20	5.80	6.30
γ 95.0	5.10	5.54	5.11	5.72
γ 100.0	4.80	5.23	4.78	5.37
γ 105.0	4.49	4.68	4.73	5.18
γ 110.0	4.63	4.57	4.49	5.01
γ 115.0	4.47	4.53	4.83	5.03
γ 120.0	4.72	4.96	5.07	5.27
γ 125.0	4.70	4.89	5.06	5.64
γ 130.0	5.09	5.39	5.38	5.85
γ 135.0	5.59	6.01	5.61	6.16
γ 140.0	6.25	6.04	6.68	6.41
γ 145.0	6.72	6.39	6.69	6.82
γ 150.0	7.09	7.16	7.20	7.36
γ 155.0	7.20	7.23	7.34	7.95
γ 160.0	7.74	7.82	7.79	8.39
γ 165.0	7.82	7.90	8.27	8.42
γ 170.0	8.40	8.69	8.15	8.53
γ 175.0	8.70	8.52	8.49	8.70
γ 180.0	8.87	8.87	8.87	8.87