

IES Indoor Report

Photometric Filename:SD07-25-PR-01 5000K RA90 金色防眩环.IES

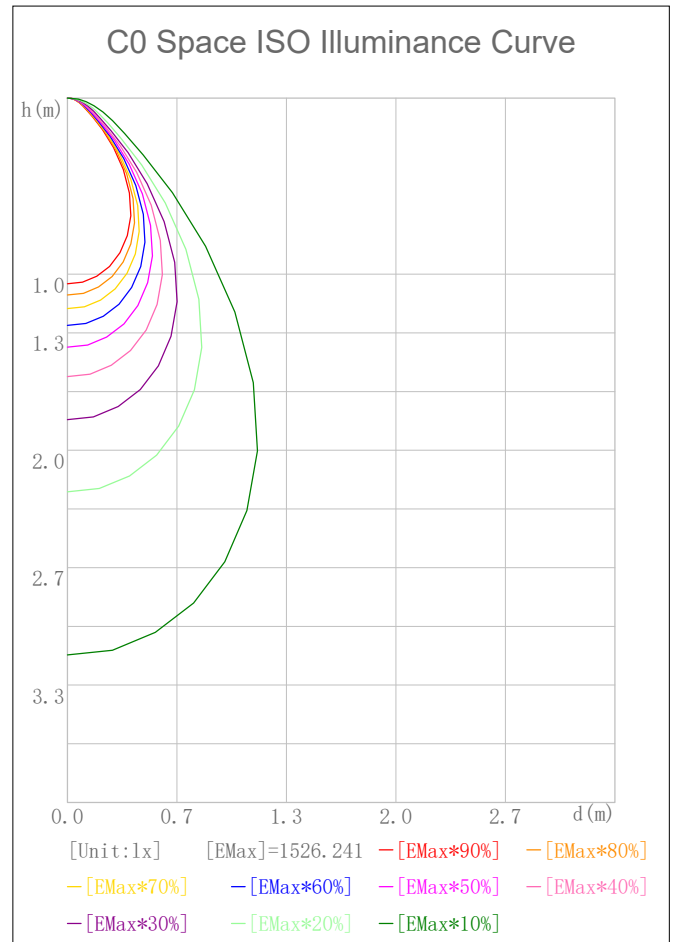
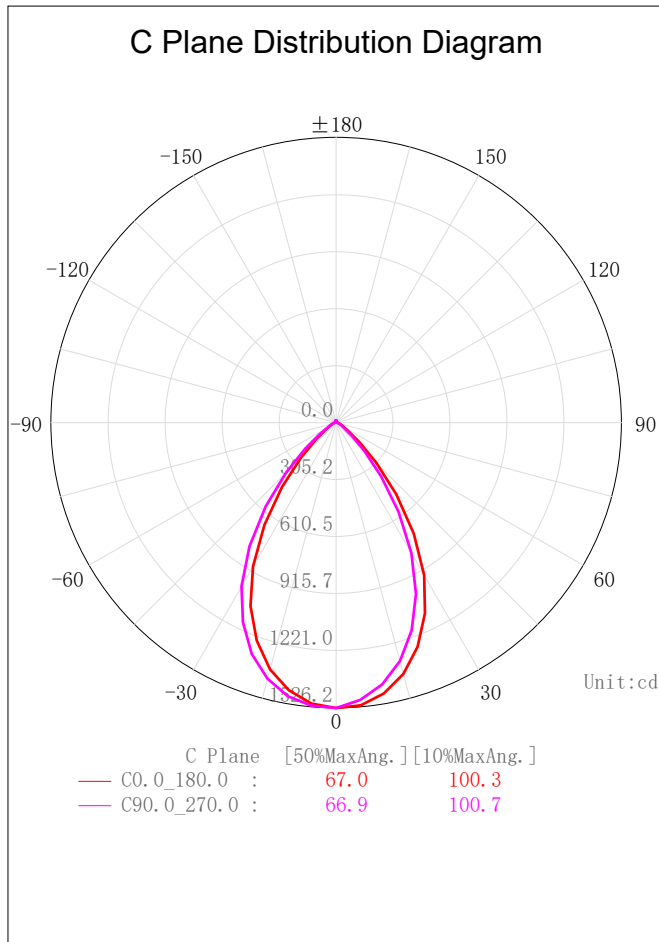
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: SD07-25-PR-01 5000K RA90 金色防眩环		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/09/22
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): 1864.130	Luminaire Flux(lm): 1864.134	Field Angle(10%Imax): 100.3(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1830.640lm 98.20%	
Rated Voltage(V):	Luminaire EER(lm/W): 80.559	Up Lumens&Percent: 33.494lm 1.80%	
Tested Power(W): 23.140	Max. Candela(cd): 1526.241	S/MH: C0_a180=0.988 C90_270=0.984	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.9, 0.100, 0.959	Beam Angle(50%Imax): 67.0(°)	ErP φ use(90°): 1569.619lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-32.8°, Right=34.1°	IRF(%): 185.218	



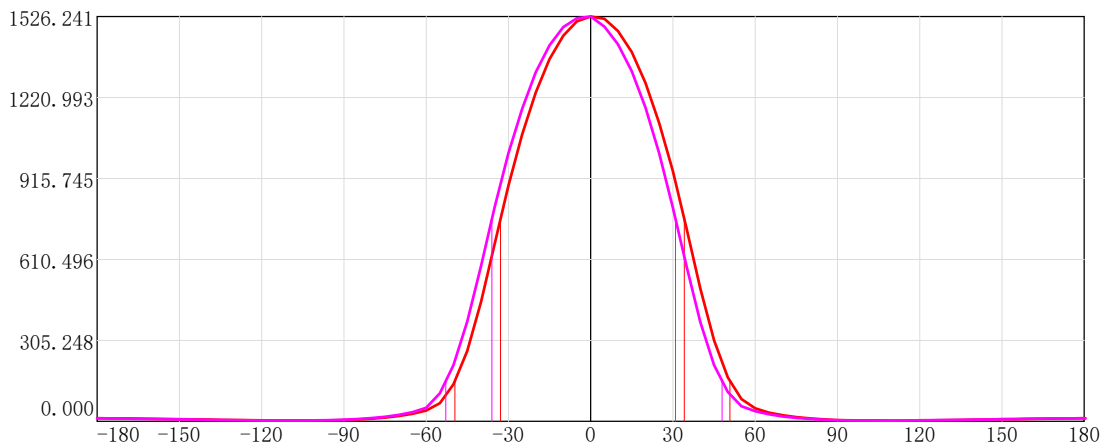
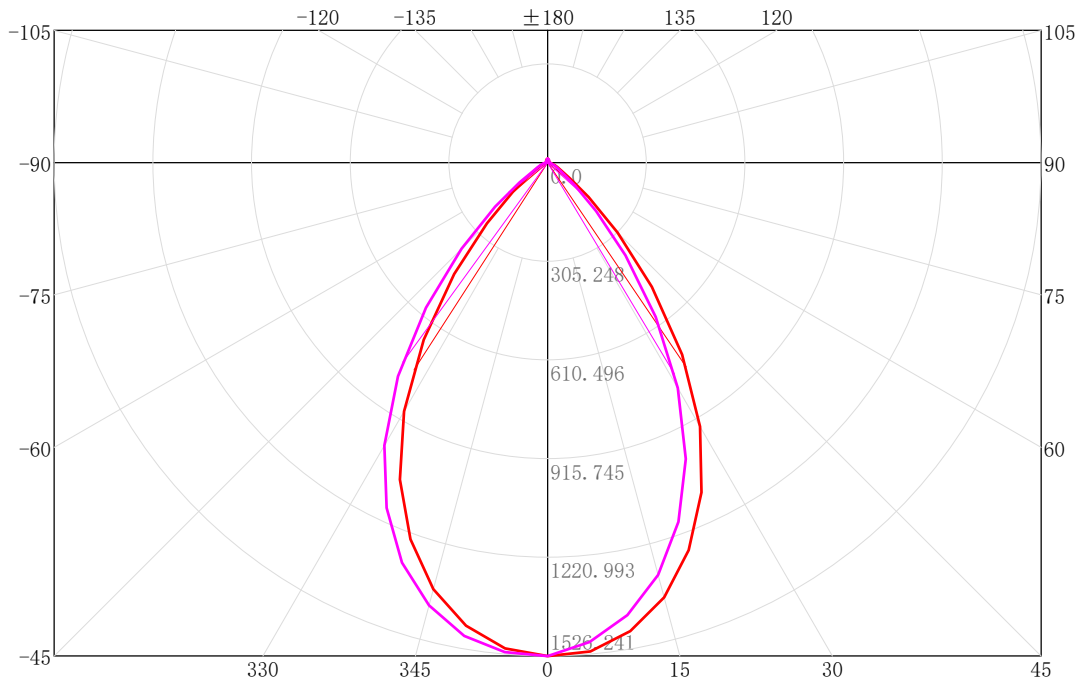
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2D Plane Light Intensity Distribution Curve

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.]
 — C0.0_180.0 : 67.0 100.3
 — C90.0_270.0 : 66.9 100.7

Unit:cd

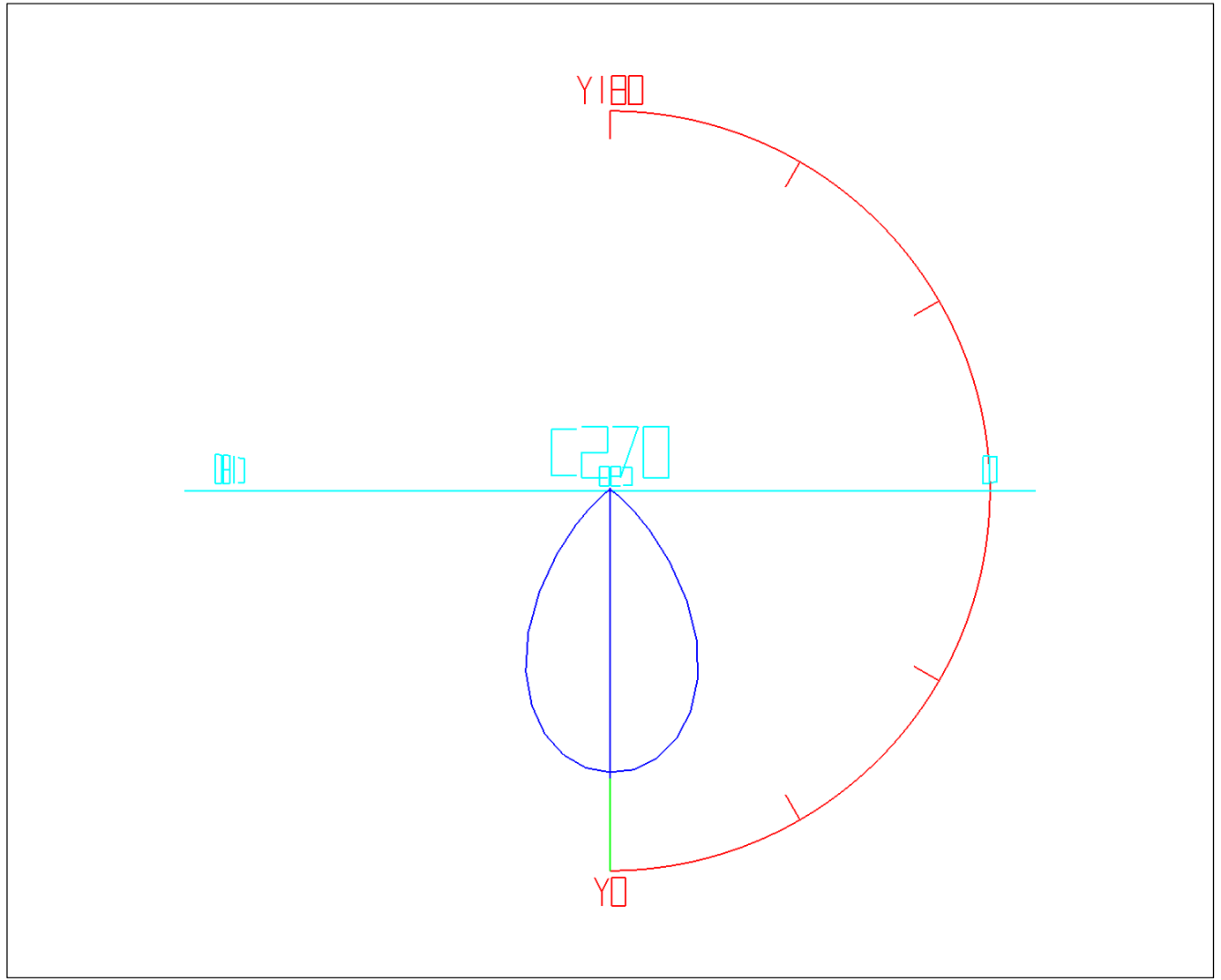
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3D Light Intensity Distribution Modal

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	36.28	36.28	1.95	1.95
5.0-10.0	106.13	142.40	5.69	7.64
10.0-15.0	168.00	310.41	9.01	16.65
15.0-20.0	216.54	526.95	11.62	28.27
20.0-25.0	246.74	773.69	13.24	41.50
25.0-30.0	254.45	1028.14	13.65	55.15
30.0-35.0	236.67	1264.81	12.70	67.85
35.0-40.0	195.77	1460.58	10.50	78.35
40.0-45.0	142.16	1602.74	7.63	85.98
45.0-50.0	90.38	1693.12	4.85	90.83
50.0-55.0	51.38	1744.50	2.76	93.58
55.0-60.0	28.69	1773.19	1.54	95.12
60.0-65.0	18.48	1791.67	0.99	96.11
65.0-70.0	13.42	1805.09	0.72	96.83
70.0-75.0	9.81	1814.90	0.53	97.36
75.0-80.0	7.14	1822.04	0.38	97.74
80.0-85.0	5.07	1827.11	0.27	98.01
85.0-90.0	3.53	1830.64	0.19	98.20
90.0-95.0	2.66	1833.30	0.14	98.35
95.0-100.0	2.24	1835.54	0.12	98.47
100.0-105.0	1.93	1837.48	0.10	98.57
105.0-110.0	1.76	1839.24	0.09	98.66
110.0-115.0	1.74	1840.97	0.09	98.76
115.0-120.0	1.82	1842.79	0.10	98.86
120.0-125.0	1.94	1844.74	0.10	98.96
125.0-130.0	2.06	1846.80	0.11	99.07
130.0-135.0	2.21	1849.00	0.12	99.19
135.0-140.0	2.33	1851.33	0.12	99.31
140.0-145.0	2.35	1853.68	0.13	99.44
145.0-150.0	2.31	1855.99	0.12	99.56
150.0-155.0	2.17	1858.16	0.12	99.68
155.0-160.0	1.94	1860.10	0.10	99.78
160.0-165.0	1.66	1861.76	0.09	99.87
165.0-170.0	1.28	1863.04	0.07	99.94
170.0-175.0	0.81	1863.85	0.04	99.99
175.0-180.0	0.28	1864.13	0.02	100.00

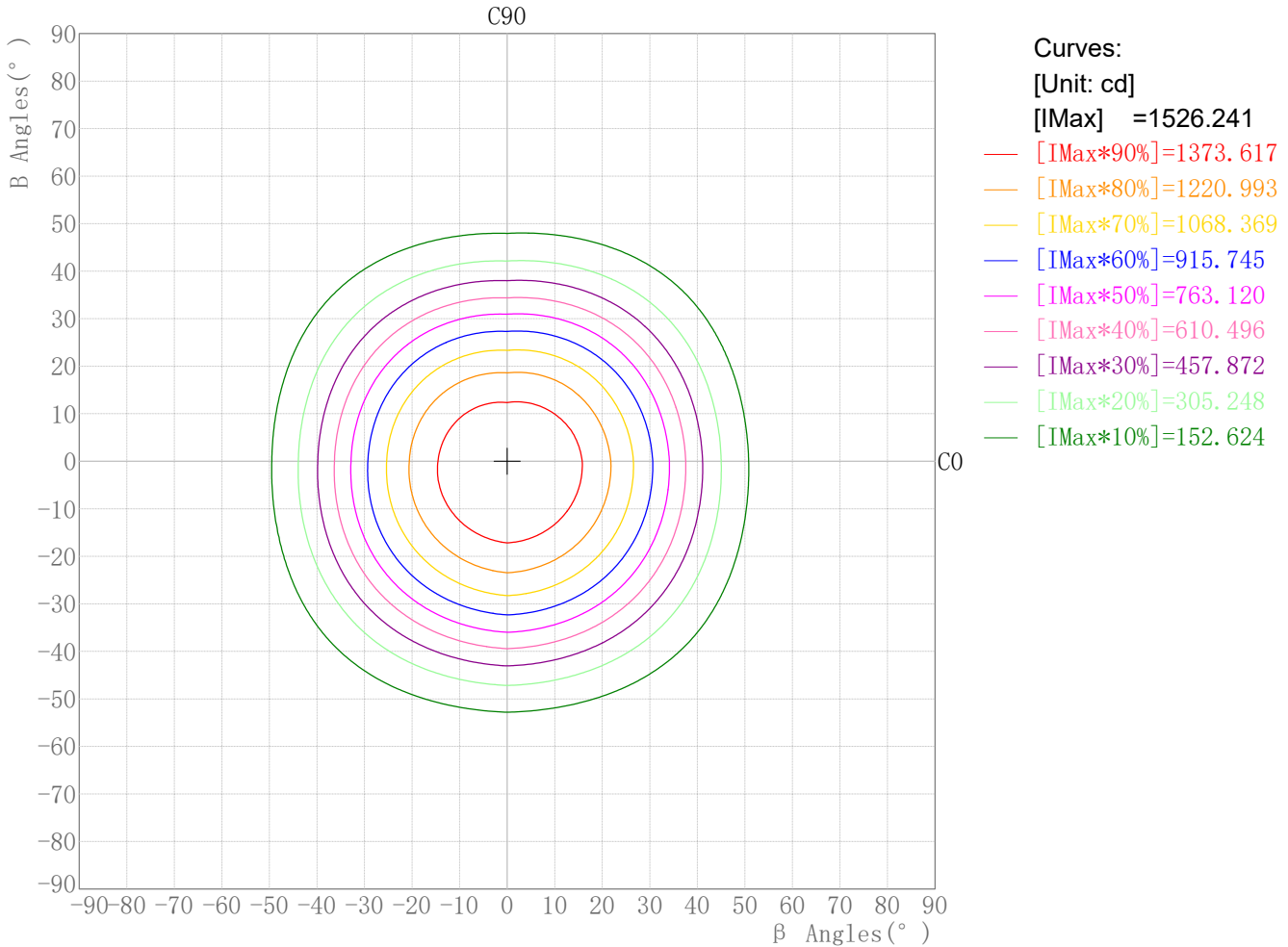
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

ISO Lighting Intensity Curve



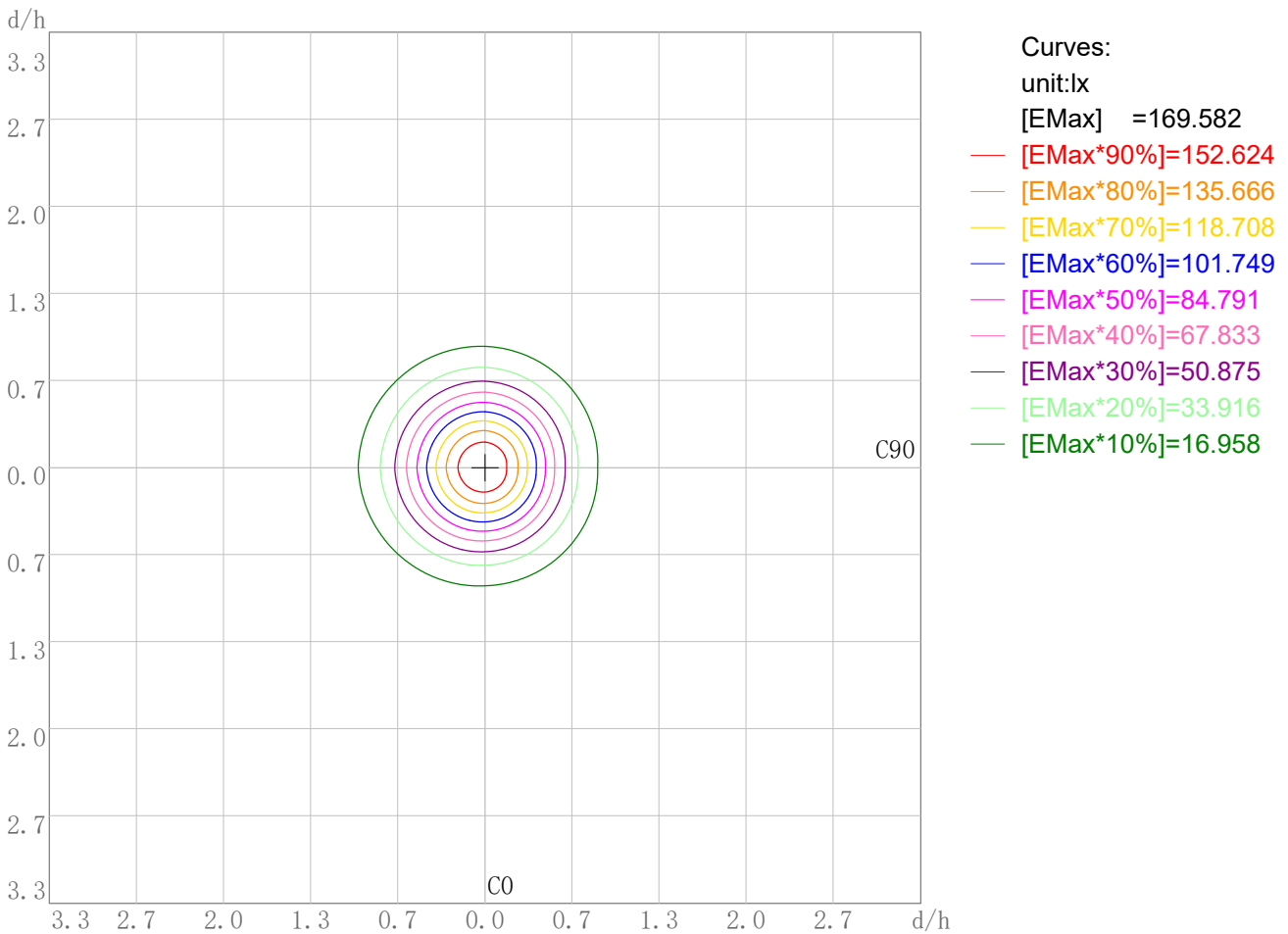
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Plane ISO-Illuminance Diagram

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

Plane ISO-Illuminance Curve



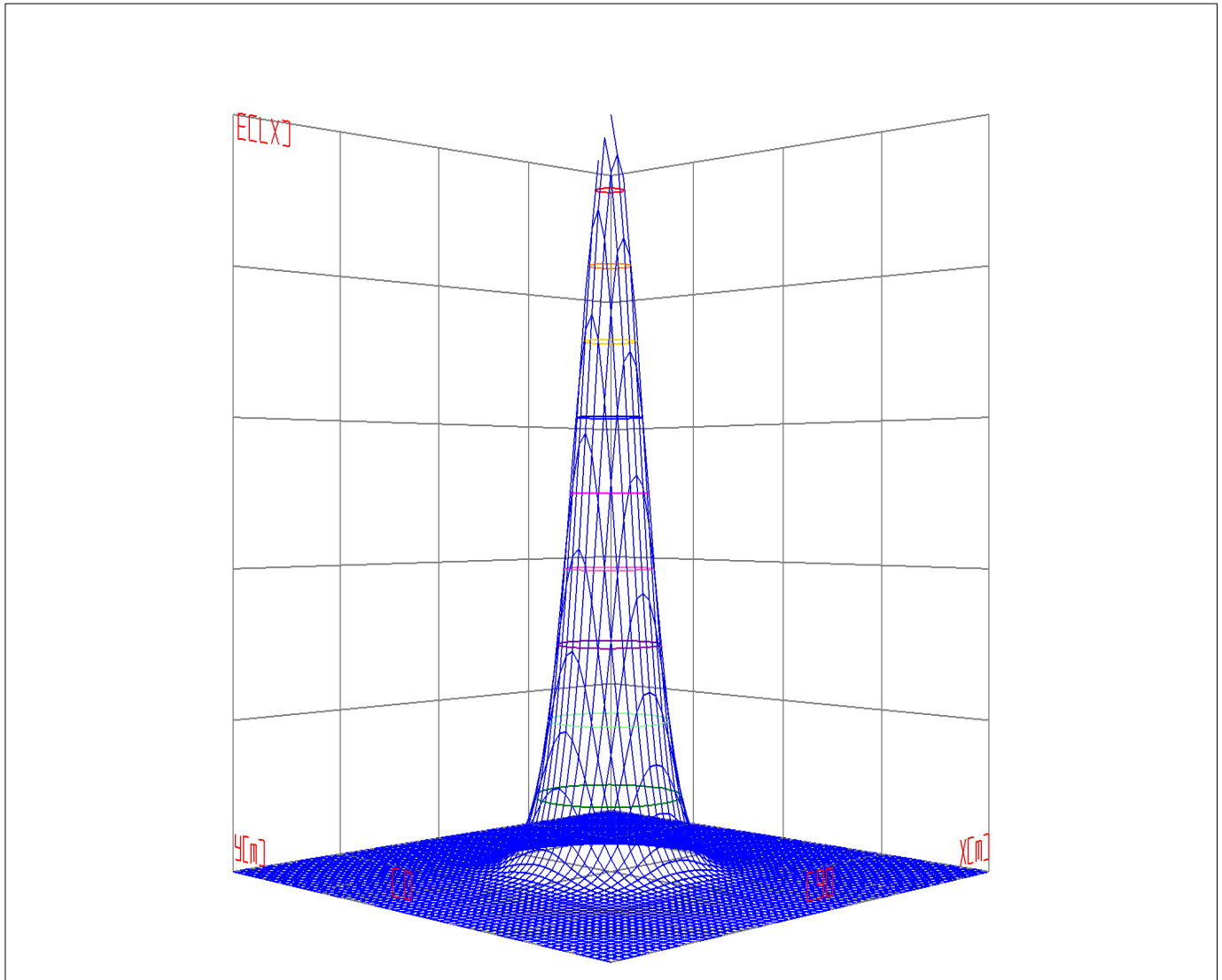
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3D Plane ISO Illuminance Diagram

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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

3D Plane Illuminance Modal



Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

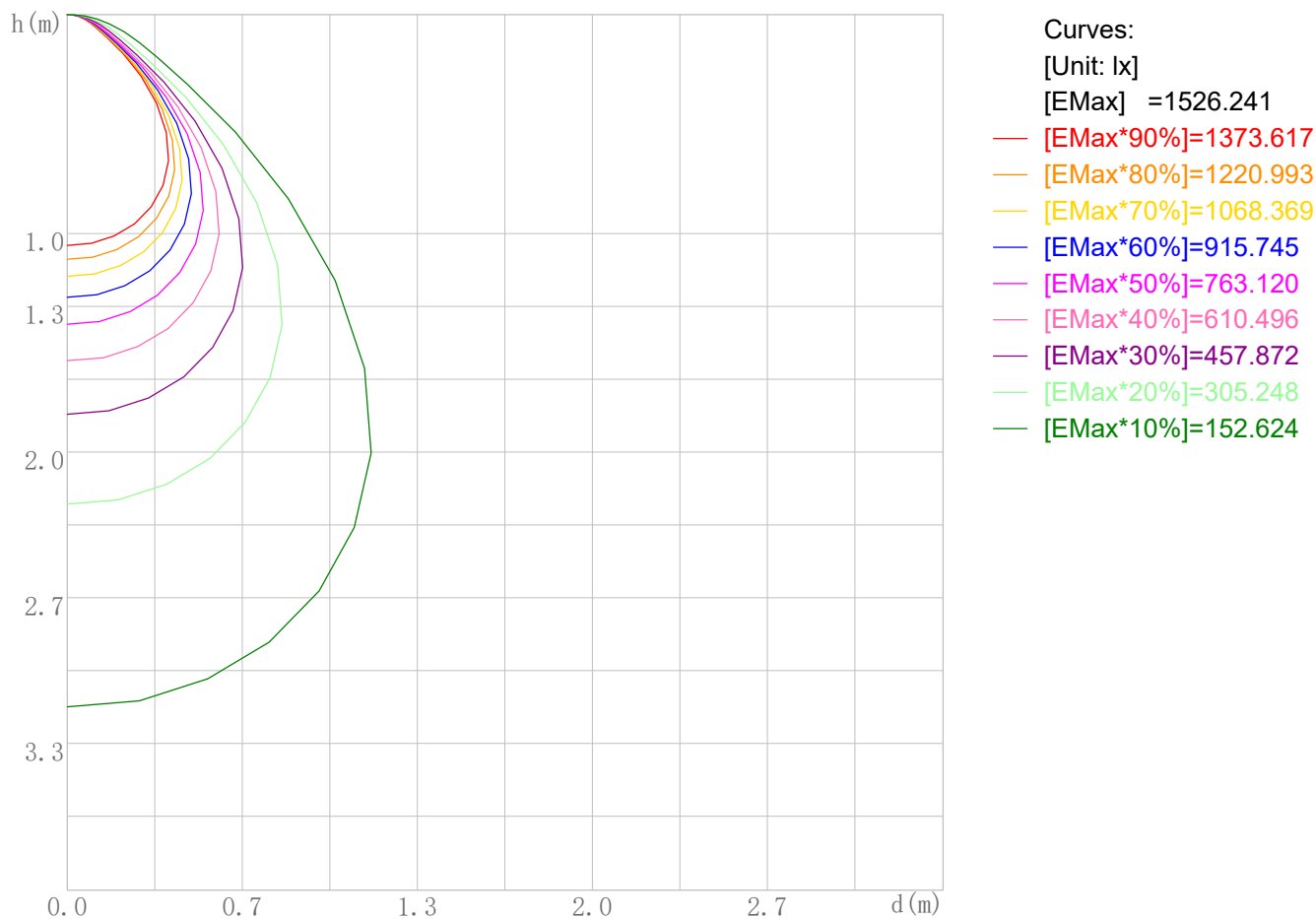
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Space ISO Illuminance Diagram

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Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1526.24lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1526.241cd,0deg

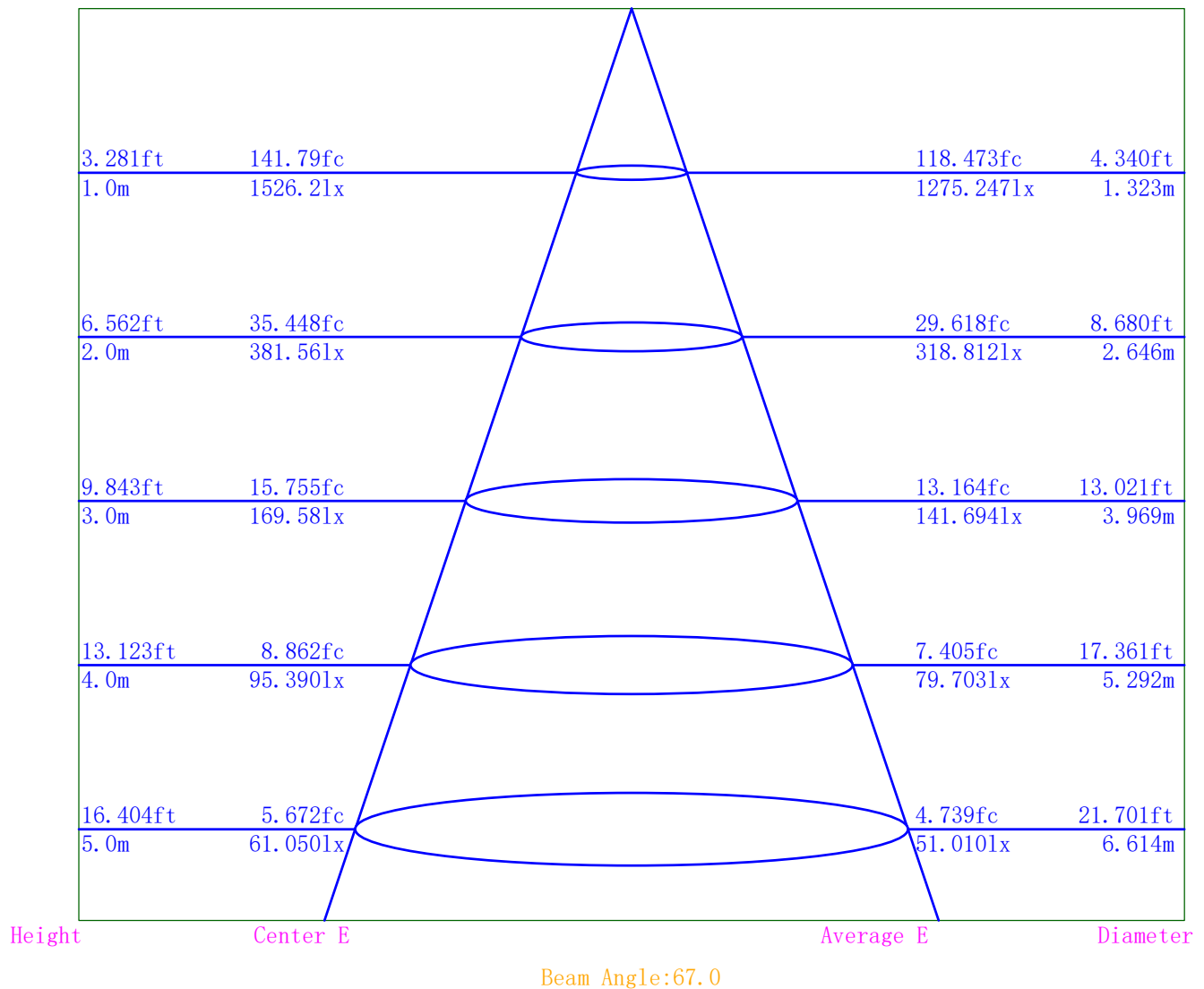
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Illuminance-Distance Diagram

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

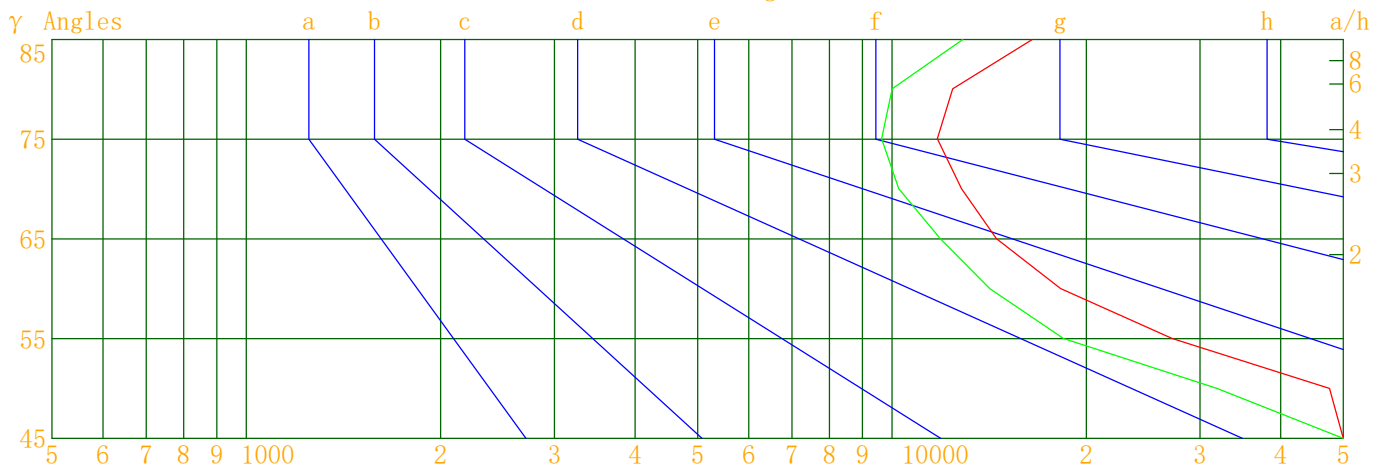
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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	79900	47618	27161	18247	14509	12814	11754	12419	16492
C90	55508	31876	18428	14170	11878	10244	9638	10008	12872

Luminance Limiting Curve



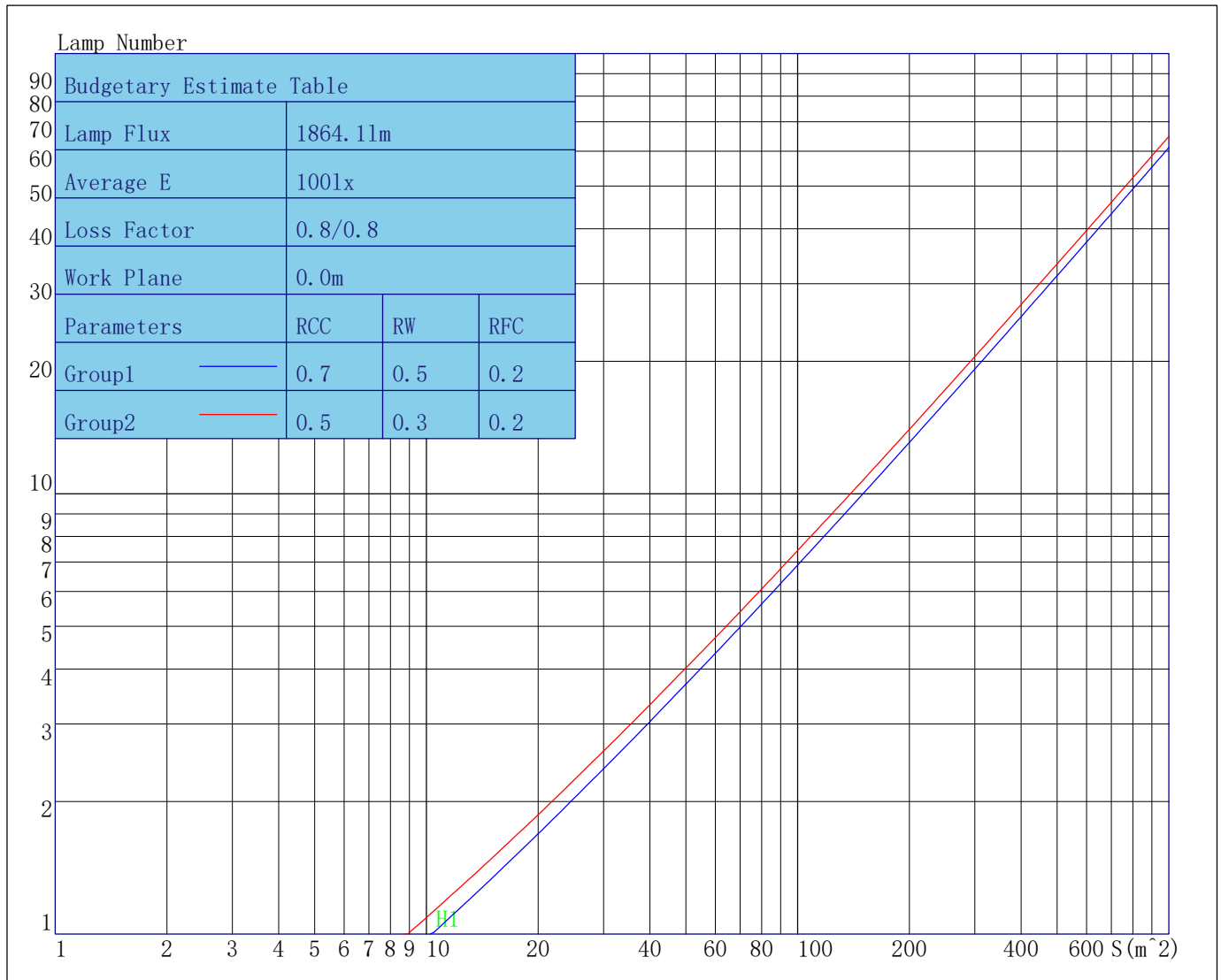
Luminous Size: Length(m)=-0.083 Width(m)=-0.083 Height(m)=0.000 Area(m^2)=0.005411
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

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Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
 Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
 Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

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Indoor Coefficient of Utilization Table

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
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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	112	109	106	103	109	106	104	101	102	100	98	98	96	95	94	93	92	90
2	105	100	95	91	103	98	94	90	94	91	88	91	88	85	88	85	83	82
3	99	92	86	81	97	90	85	80	87	83	79	84	81	77	82	79	76	74
4	93	84	78	73	91	83	77	73	81	76	72	78	74	70	76	72	69	68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	64	71	67	64	62
6	82	72	65	61	81	71	65	60	70	64	60	68	63	59	66	62	59	57
7	78	67	60	56	76	66	60	55	65	59	55	63	58	55	62	58	54	52
8	73	63	56	51	72	62	56	51	61	55	51	59	54	50	58	54	50	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	52	47	44	52	47	43	42

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Unified Glare Rating Table

Lum. Name: SD07-25-PR-01 5000K RA90 金色防眩环	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/22

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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	24.0	25.1	24.4	25.5	25.8	22.4	23.6	22.8	23.9	24.3
Y=3H	24.0	25.0	24.4	25.4	25.8	22.5	23.5	22.9	23.9	24.3
Y=4H	24.0	24.9	24.4	25.3	25.8	22.5	23.4	22.9	23.8	24.2
Y=6H	24.0	24.9	24.4	25.3	25.7	22.5	23.4	22.9	23.8	24.2
Y=8H	24.0	24.8	24.5	25.2	25.7	22.5	23.3	22.9	23.7	24.2
Y=12H	24.0	24.8	24.5	25.2	25.7	22.5	23.3	23.0	23.7	24.2
X=4H Y=2H	23.8	24.8	24.3	25.2	25.6	22.3	23.3	22.8	23.7	24.1
Y=3H	23.9	24.7	24.3	25.1	25.6	22.4	23.2	22.9	23.6	24.1
Y=4H	23.9	24.6	24.4	25.1	25.6	22.5	23.2	22.9	23.6	24.1
Y=6H	24.0	24.6	24.5	25.1	25.6	22.5	23.2	23.0	23.6	24.2
Y=8H	24.0	24.6	24.5	25.1	25.6	22.6	23.2	23.1	23.6	24.2
Y=12H	24.1	24.6	24.6	25.1	25.6	22.6	23.1	23.1	23.7	24.2
X=8H Y=4H	23.9	24.4	24.4	24.9	25.4	22.4	23.0	22.9	23.5	24.0
Y=6H	24.0	24.4	24.5	25.0	25.6	22.5	23.0	23.1	23.6	24.1
Y=8H	24.0	24.5	24.6	25.0	25.6	22.6	23.1	23.2	23.6	24.1
Y=12H	24.2	24.6	24.7	25.1	25.7	22.7	23.1	23.3	23.7	24.3
X=12H Y=4H	23.8	24.3	24.3	24.8	25.4	22.4	22.9	22.9	23.4	23.9
Y=6H	23.9	24.4	24.5	24.9	25.5	22.5	23.0	23.1	23.5	24.0
Y=8H	24.1	24.4	24.6	25.0	25.6	22.6	23.0	23.2	23.6	24.2
Variations with the observer position at spacings										
S=1.0H	0.2/-0.3					0.3/-0.3				
S=1.5H	0.6/-0.6					0.6/-0.6				
S=2.0H	0.9/-0.8					0.9/-0.9				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.6					0.7				

to the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	1526.24	1526.24	1526.24	1526.24
γ 5.0	1517.54	1488.30	1508.18	1519.84
γ 10.0	1471.13	1421.16	1454.07	1486.32
γ 15.0	1392.17	1320.20	1365.83	1417.83
γ 20.0	1275.36	1182.14	1239.85	1316.57
γ 25.0	1125.13	1011.31	1081.60	1178.46
γ 30.0	942.75	804.96	888.22	1010.19
γ 35.0	724.81	582.53	668.24	806.96
γ 40.0	501.28	374.37	449.96	585.28
γ 45.0	305.69	212.37	265.58	376.67
γ 50.0	165.61	110.86	140.20	212.07
γ 55.0	84.29	57.19	69.07	106.02
γ 60.0	49.36	38.33	40.96	51.28
γ 65.0	33.18	27.16	29.05	34.70
γ 70.0	23.71	18.96	20.58	24.61
γ 75.0	16.46	13.50	14.73	17.59
γ 80.0	11.67	9.40	10.51	12.81
γ 85.0	7.78	6.07	7.51	8.94
γ 90.0	5.06	4.92	4.93	6.38
γ 95.0	4.46	3.66	4.37	5.09
γ 100.0	3.66	3.36	3.88	4.51
γ 105.0	3.38	3.02	3.52	3.59
γ 110.0	2.99	3.29	3.38	3.77
γ 115.0	3.23	3.54	3.75	3.49
γ 120.0	3.93	4.09	4.03	3.87
γ 125.0	4.35	4.67	4.69	4.02
γ 130.0	4.91	5.17	5.46	4.63
γ 135.0	5.66	6.28	6.19	5.38
γ 140.0	6.48	6.92	7.03	6.31
γ 145.0	7.31	7.49	7.76	7.04
γ 150.0	8.16	8.53	8.50	8.00
γ 155.0	8.61	8.99	9.29	8.45
γ 160.0	9.60	9.98	9.86	9.39
γ 165.0	10.33	10.73	10.74	9.80
γ 170.0	10.92	11.57	11.32	10.81
γ 175.0	11.55	11.62	11.69	11.59
γ 180.0	11.88	11.88	11.88	11.88
