

# IES Indoor Report

Photometric Filename:DL39-09-PR-04 4000K 60D 金.IES

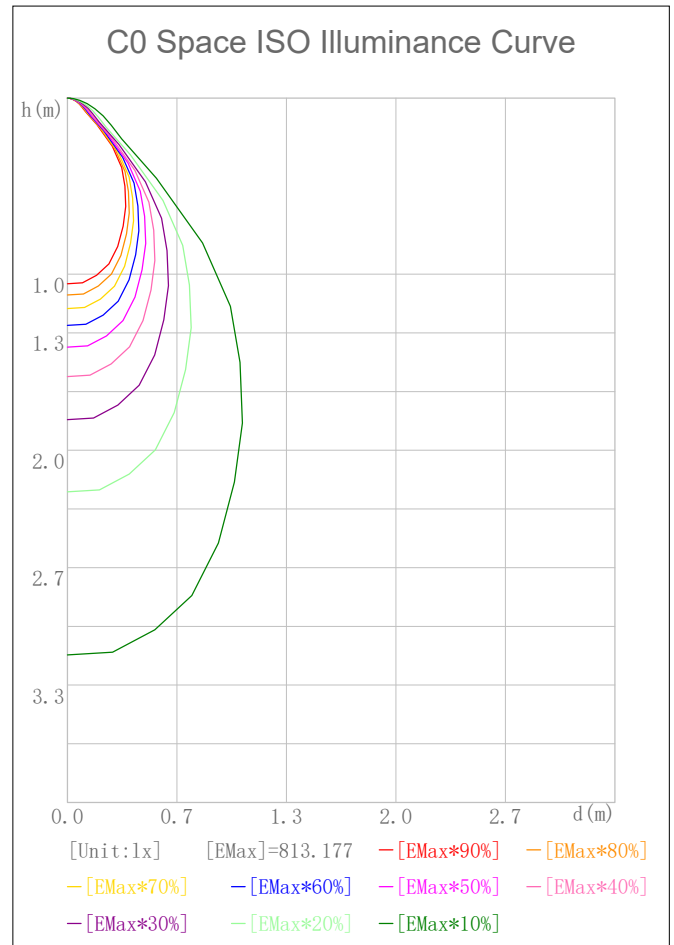
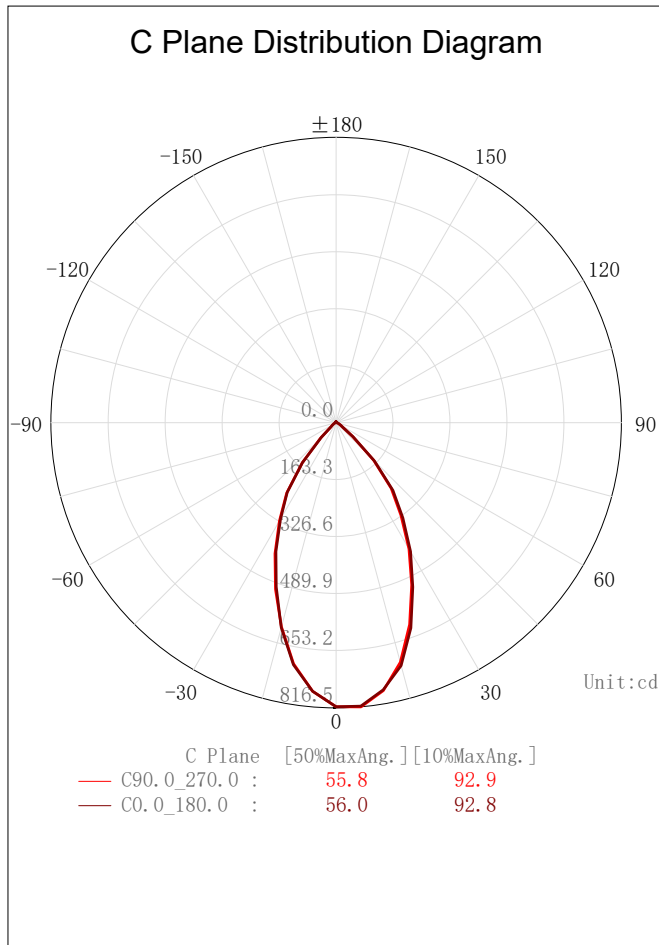
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name: DL39-09-PR-04 4000K 60D 金		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/10/14
Manufacture: Shenzhen Norming Lightin		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Quality Department		Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H):0.042m*0.042m*0.000m		Lum. Area (m2):0.001	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%):

### Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 771.120	Luminary Flux(lm): 771.119	Field Angle(10%Imax): 92.9(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 768.591lm 99.67%
Rated Voltage(V):	Luminary EER(lm/W): 85.084	Up Lumens&Percent: 2.527lm 0.33%
Tested Power(W): 9.063	Max. Candela(cd): 816.484	S/MH: C0_a180=0.822 C90_270=0.822
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):239.9, 0.040	Beam Angle (50%Imax): 55.8(°)	ErP φ use(90°): 704.029lm
Lamp Size (W*L*H):0.042m*0.042m*0.000m	Left=-25.3°, Right=30.5°	IRF(%): 216.006



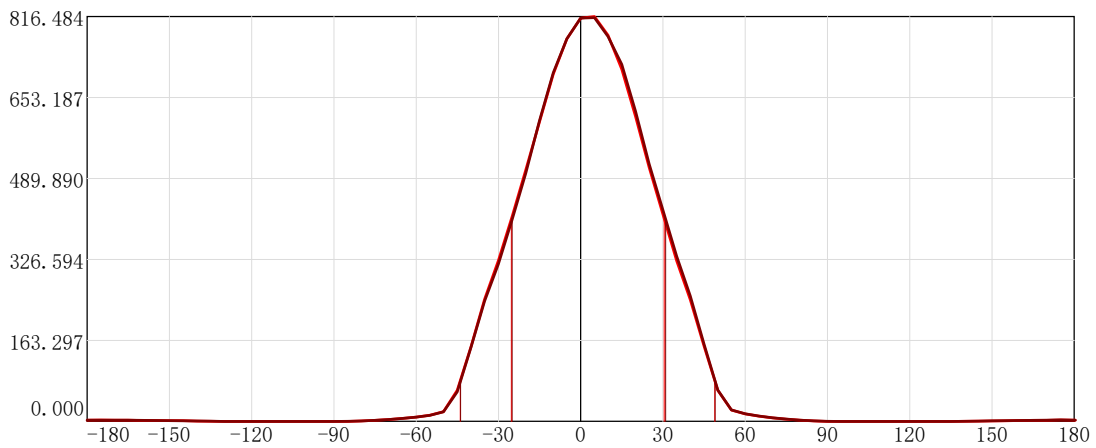
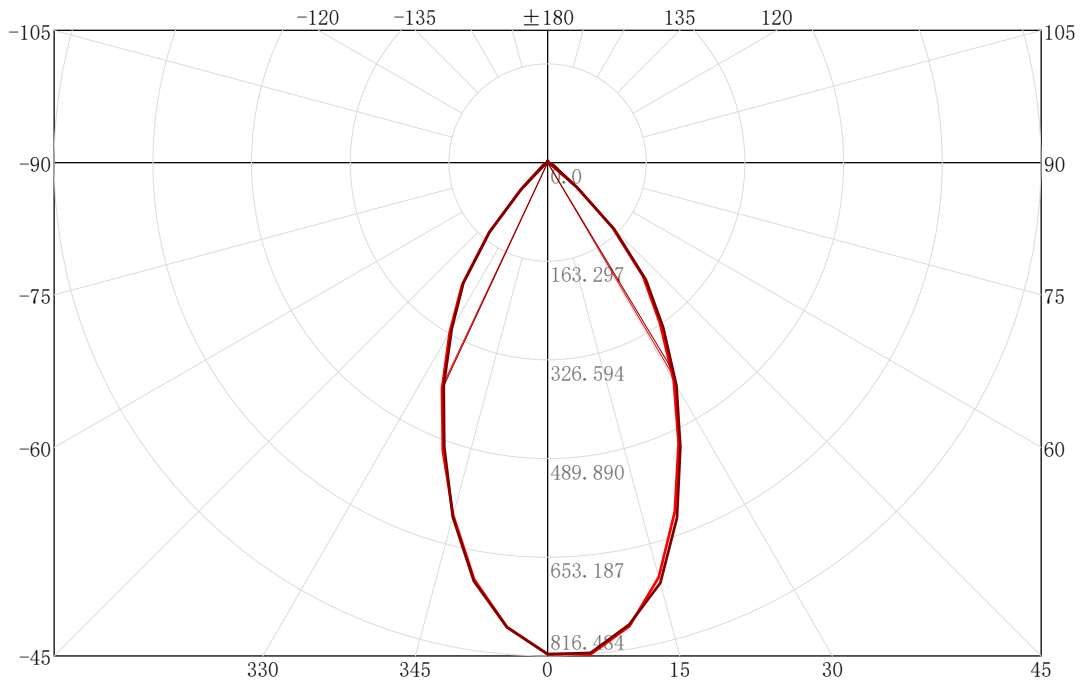
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## 2D Plane Light Intensity Distribution Curve

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
— C90.0_270.0 :	55.8	92.9
— C0.0_180.0 :	56.0	92.8

Unit:cd

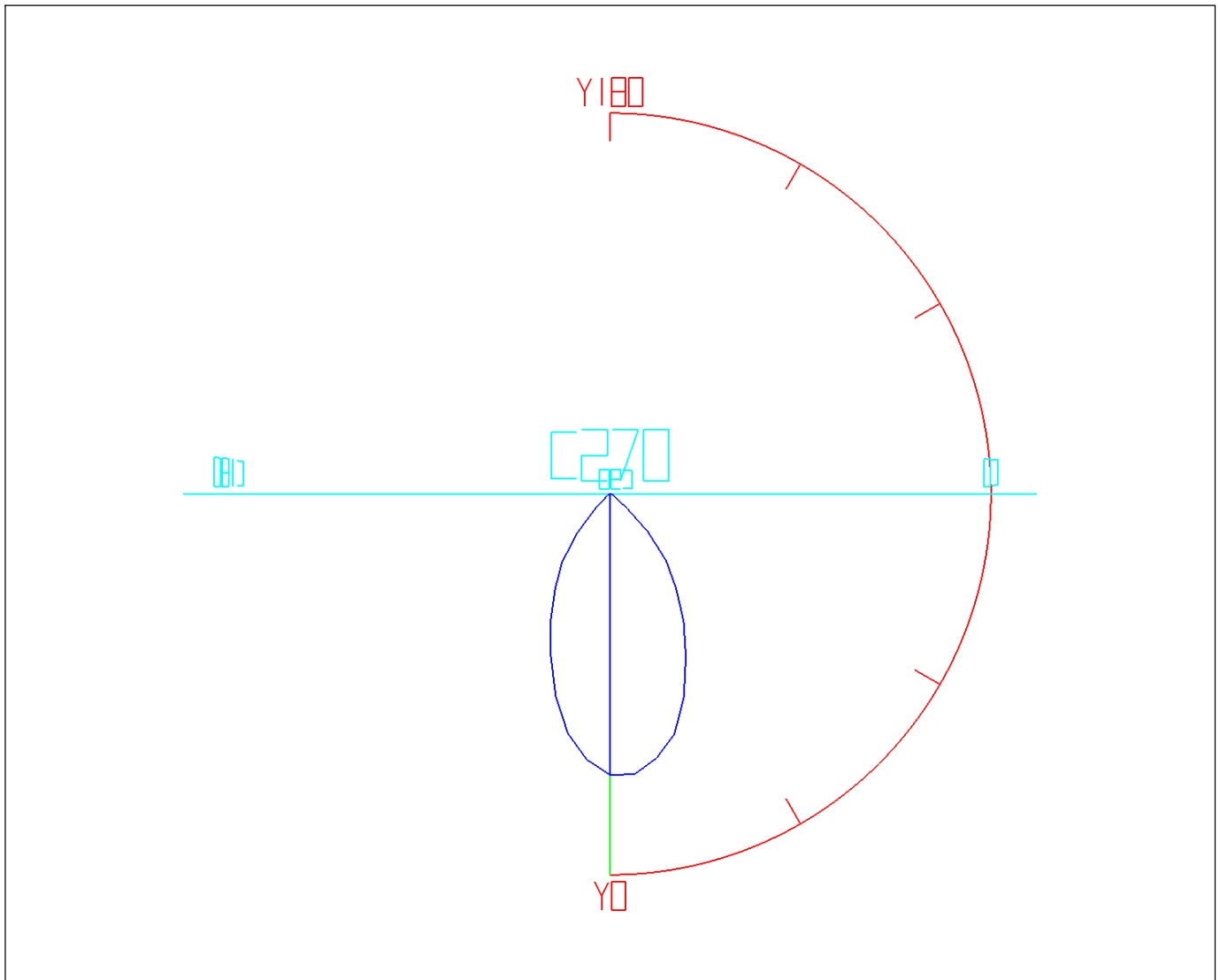
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## 3D Light Intensity Distribution Modal

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

## 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( $\gamma$ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	19.21	19.21	2.49	2.49
5.0-10.0	54.84	74.05	7.11	9.60
10.0-15.0	83.03	157.08	10.77	20.37
15.0-20.0	100.71	257.79	13.06	33.43
20.0-25.0	107.48	365.27	13.94	47.37
25.0-30.0	105.57	470.84	13.69	61.06
30.0-35.0	96.87	567.71	12.56	73.62
35.0-40.0	81.11	648.81	10.52	84.14
40.0-45.0	56.85	705.66	7.37	91.51
45.0-50.0	30.05	735.71	3.90	95.41
50.0-55.0	12.84	748.55	1.66	97.07
55.0-60.0	6.88	755.44	0.89	97.97
60.0-65.0	4.98	760.41	0.65	98.61
65.0-70.0	3.56	763.98	0.46	99.07
70.0-75.0	2.38	766.35	0.31	99.38
75.0-80.0	1.41	767.76	0.18	99.56
80.0-85.0	0.64	768.40	0.08	99.65
85.0-90.0	0.19	768.59	0.02	99.67
90.0-95.0	0.03	768.62	0.00	99.68
95.0-100.0	0.00	768.62	0.00	99.68
100.0-105.0	0.00	768.62	0.00	99.68
105.0-110.0	0.00	768.62	0.00	99.68
110.0-115.0	0.00	768.62	0.00	99.68
115.0-120.0	0.00	768.62	0.00	99.68
120.0-125.0	0.00	768.62	0.00	99.68
125.0-130.0	0.01	768.63	0.00	99.68
130.0-135.0	0.05	768.68	0.01	99.68
135.0-140.0	0.14	768.81	0.02	99.70
140.0-145.0	0.27	769.08	0.04	99.74
145.0-150.0	0.36	769.44	0.05	99.78
150.0-155.0	0.38	769.82	0.05	99.83
155.0-160.0	0.38	770.20	0.05	99.88
160.0-165.0	0.36	770.57	0.05	99.93
165.0-170.0	0.29	770.86	0.04	99.97
170.0-175.0	0.19	771.05	0.02	99.99
175.0-180.0	0.07	771.12	0.01	100.00

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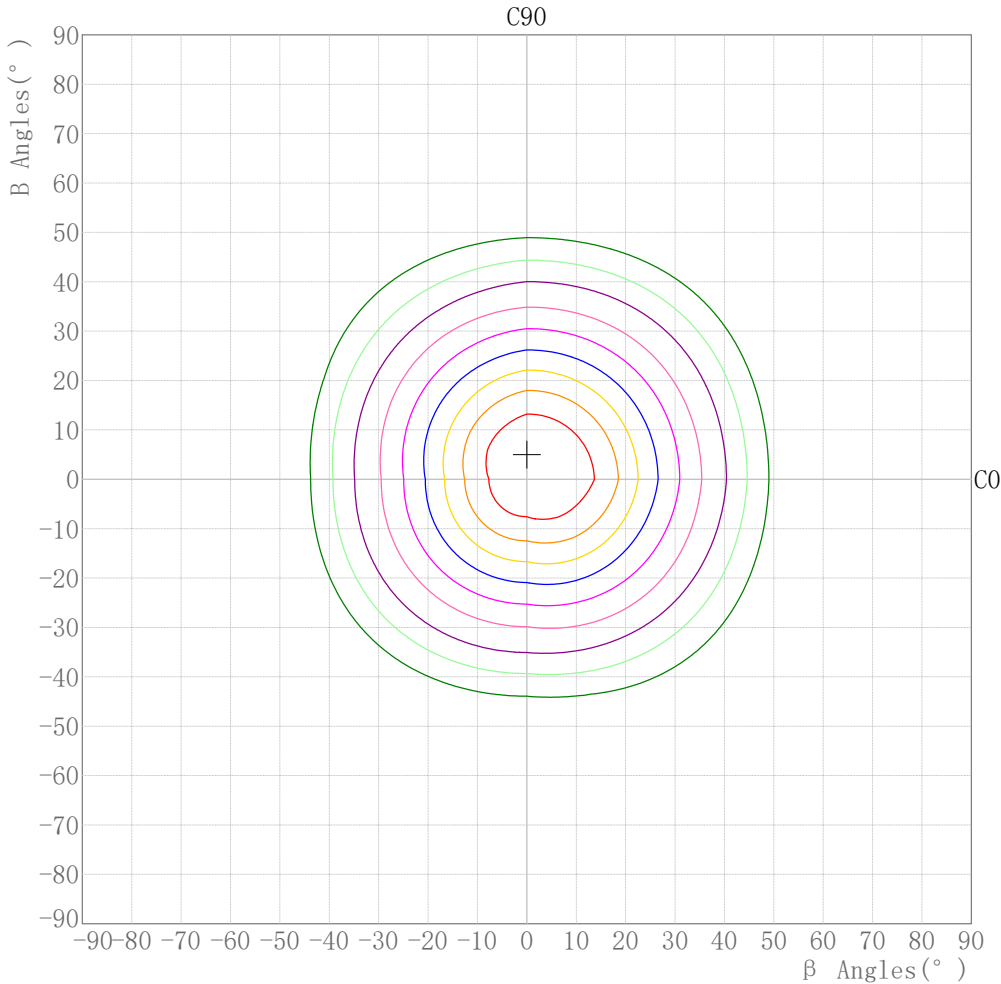
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## Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

### ISO Lighting Intensity Curve



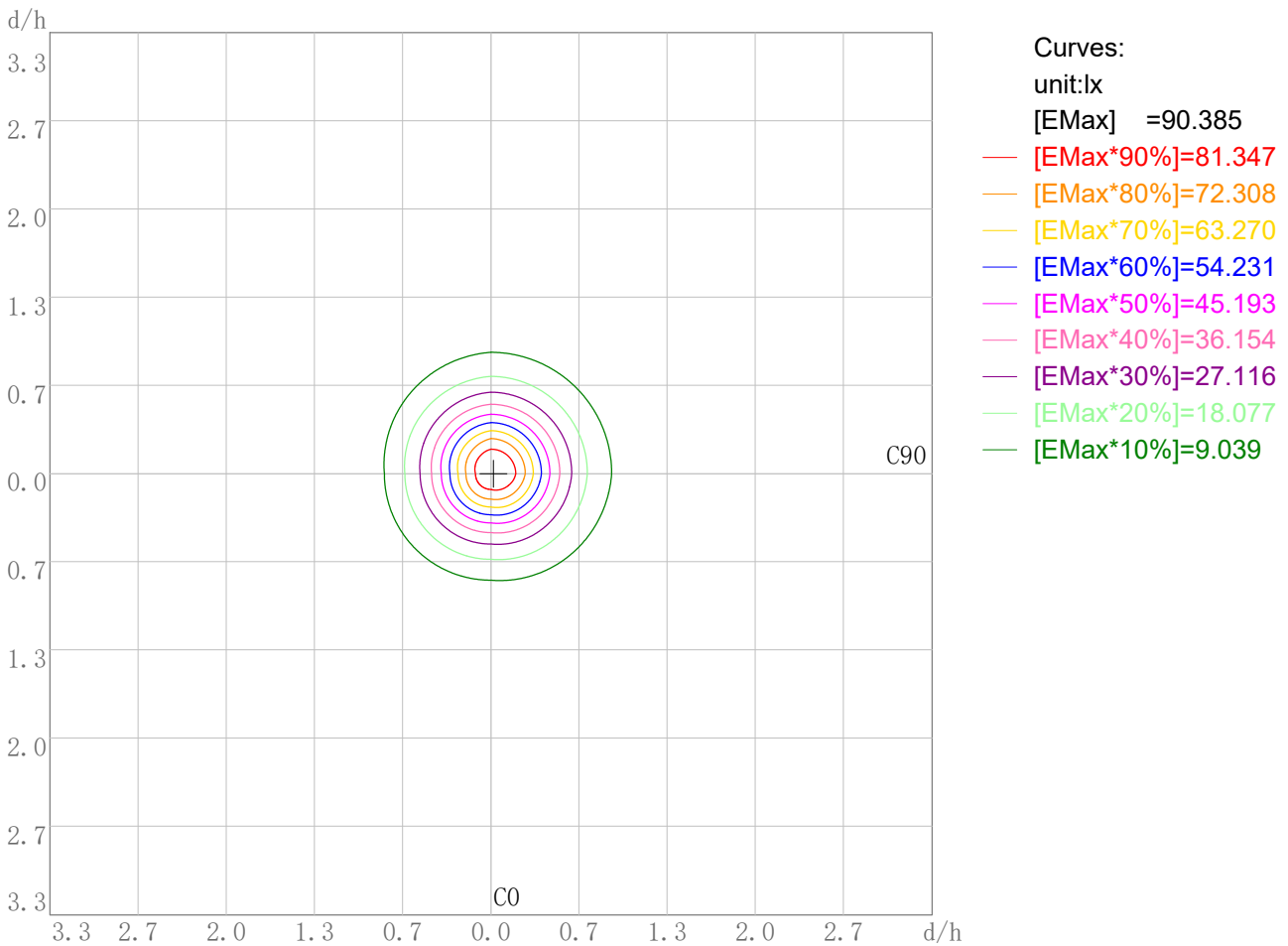
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## Plane ISO-Illuminance Diagram

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 90.39

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

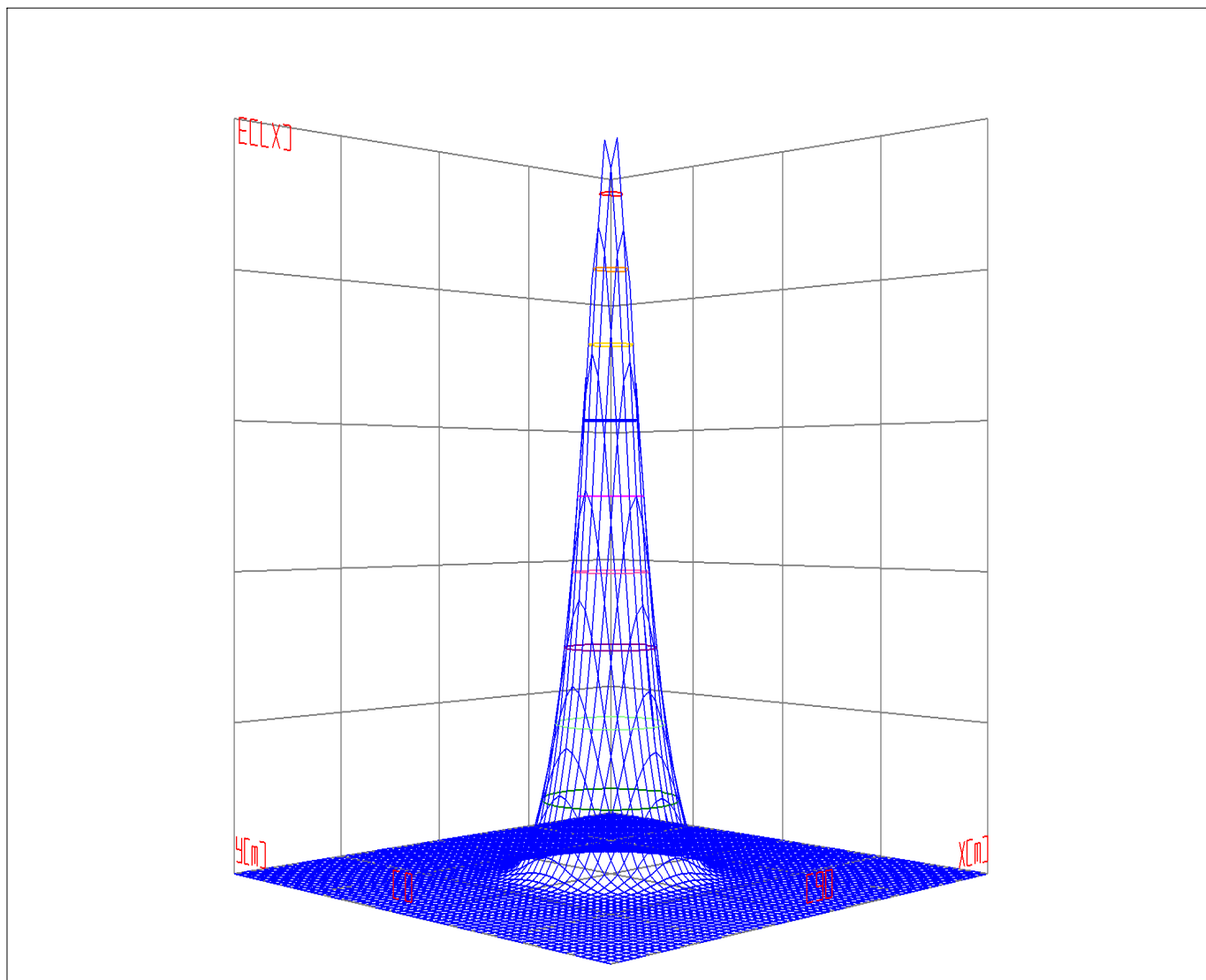
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## 3D Plane ISO Illuminance Diagram

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

### 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

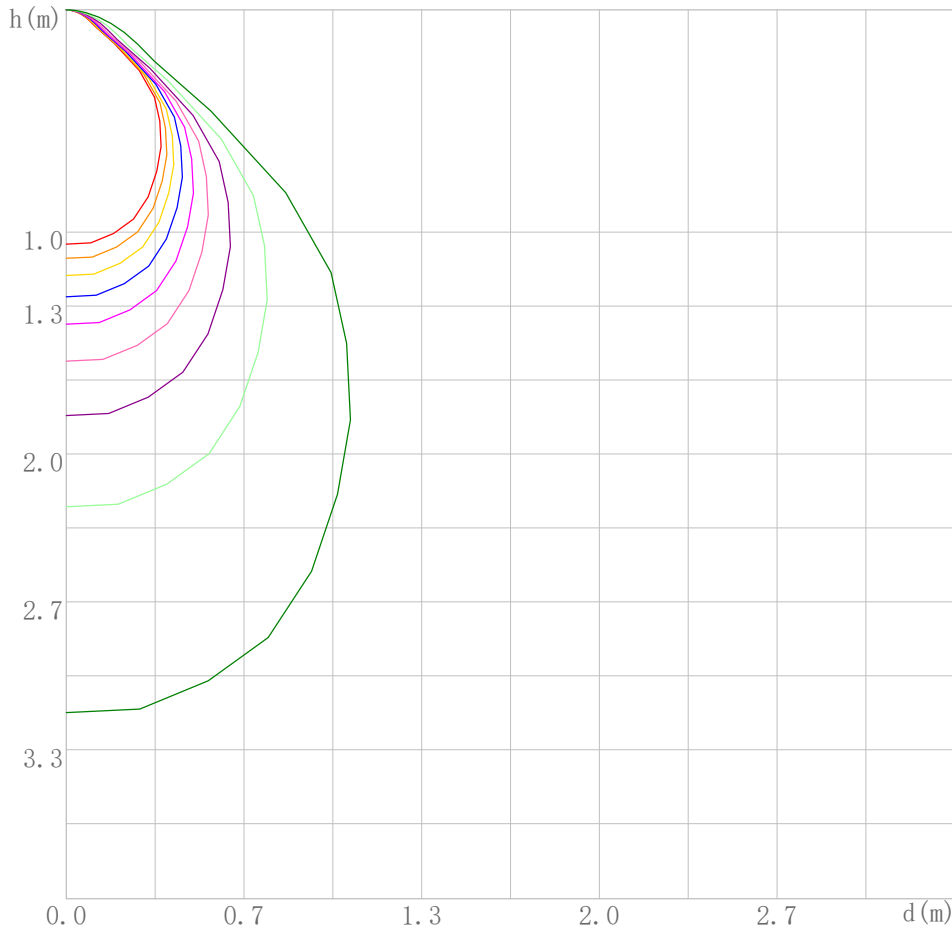
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## Space ISO Illuminance Diagram

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog: LED	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =813.177

— [EMax\*90%]=731.859

— [EMax\*80%]=650.542

— [EMax\*70%]=569.224

— [EMax\*60%]=487.906

— [EMax\*50%]=406.589

— [EMax\*40%]=325.271

— [EMax\*30%]=243.953

— [EMax\*20%]=162.635

— [EMax\*10%]=81.318

Space Plane Maximum Illuminance and @Angle:813.18lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:814.227cd,0deg



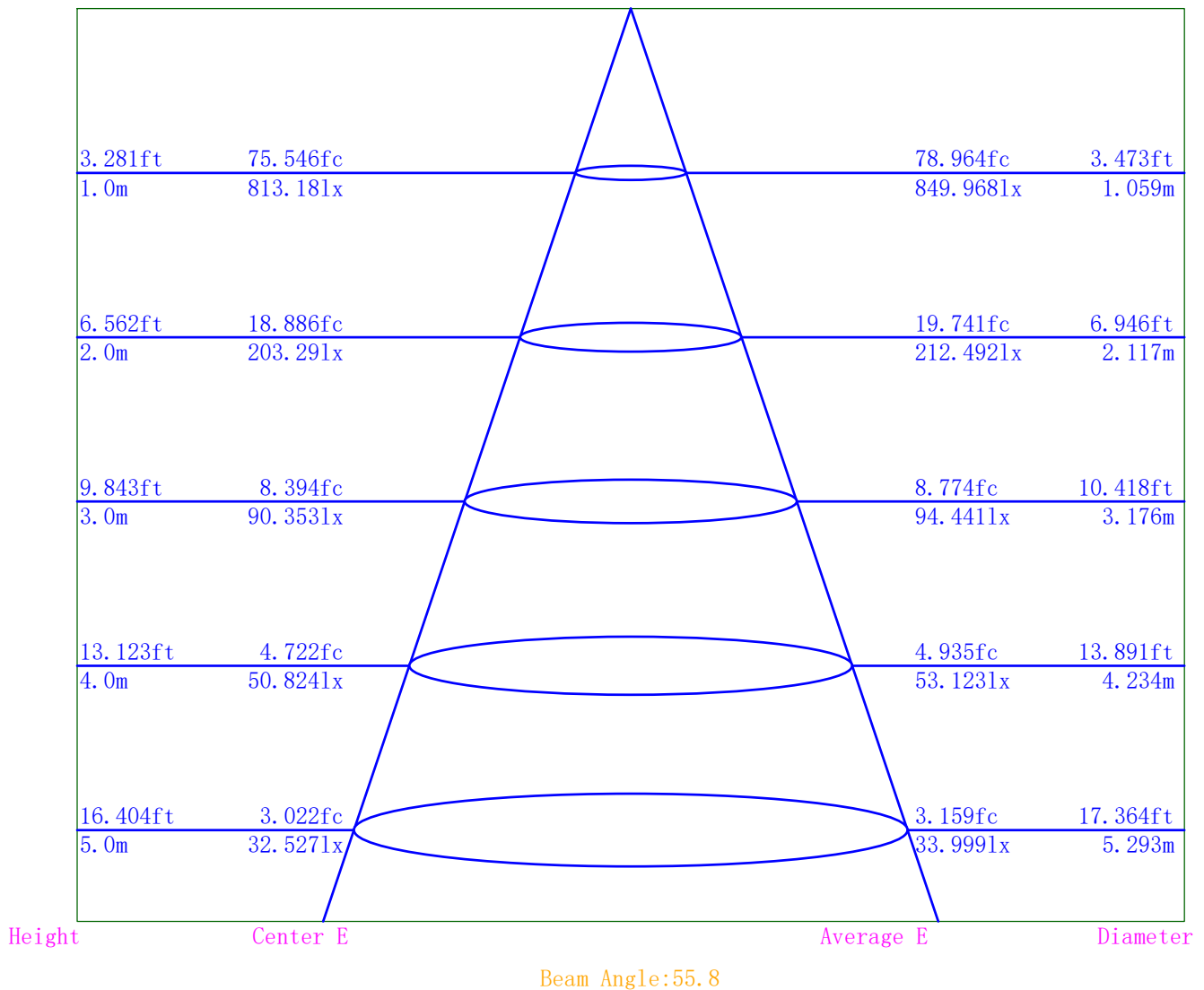
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## Illuminance-Distance Diagram

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

Illuminance-Distance Curve



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## Indoor Luminance Limiting Curves

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

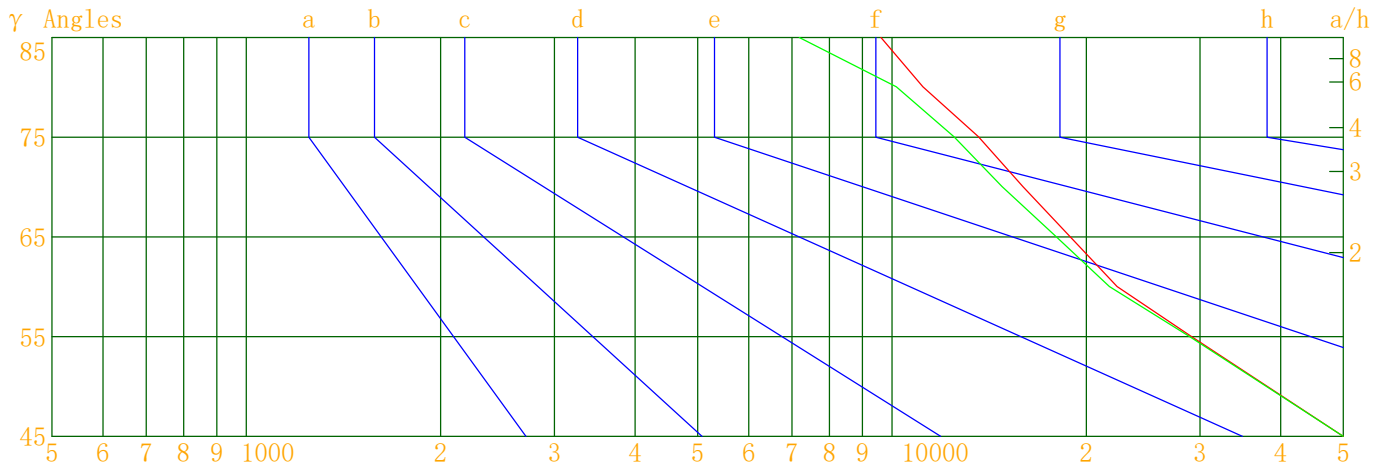
Glare Grade Table

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	158968	71174	29086	22318	18867	15959	13609	11169	9615
C90	154855	70337	28887	21711	17955	14815	12474	10155	7188

Luminance Limiting Curve



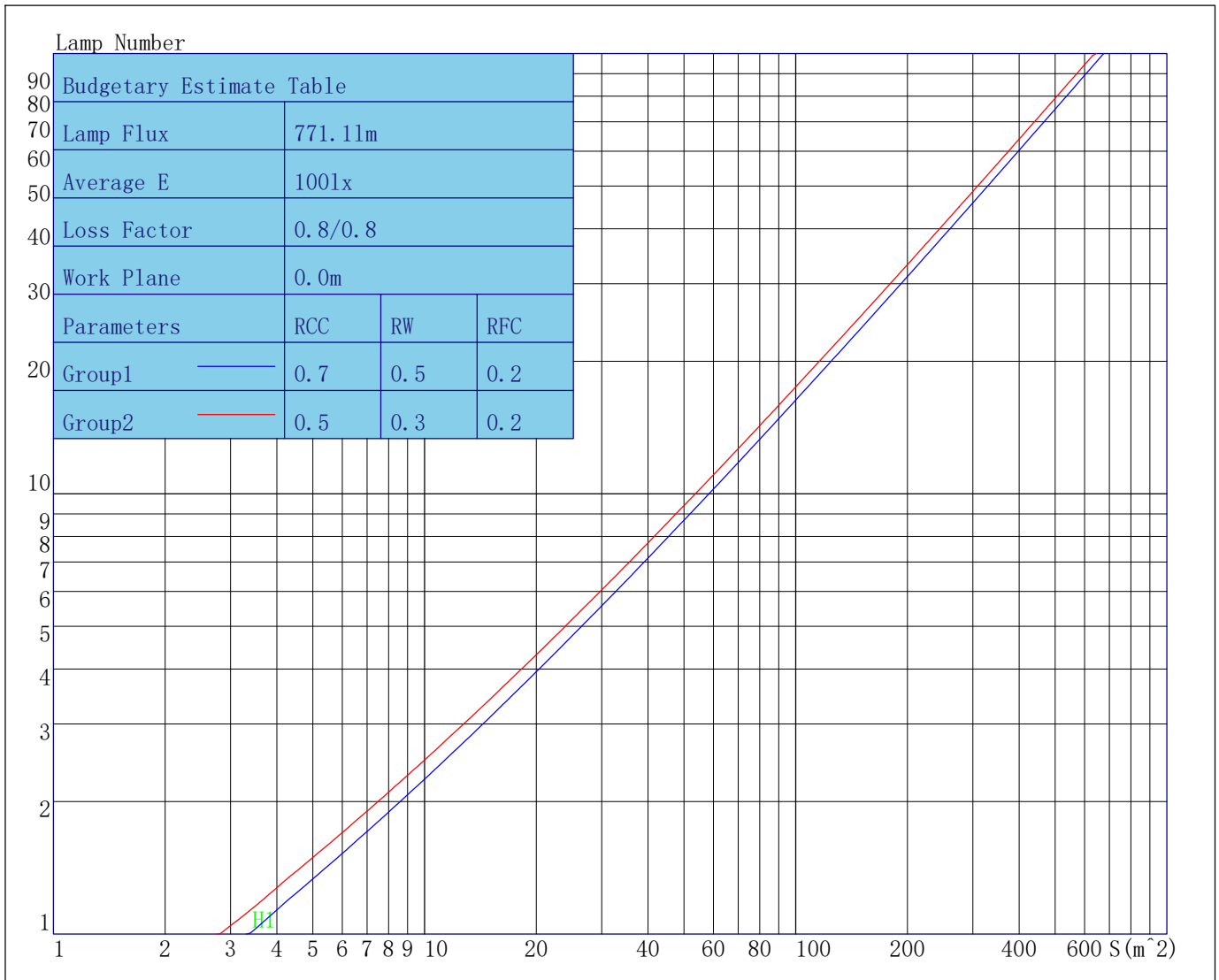
Luminous Size: Length(m)=-0.042 Width(m)=-0.042 Height(m)=0.000 Area(m^2)=0.001385  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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## Indoor Budgetary Estimate Table

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
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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: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

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	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	90	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	75	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46

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## Unified Glare Rating Table

Lum. Name: DL39-09-PR-04 4000K 60D 金	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

## 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	26.1	27.2	26.5	27.5	27.9	26.0	27.1	26.4	27.4	27.7
Y=3H	26.0	27.0	26.4	27.3	27.7	25.9	26.9	26.3	27.2	27.6
Y=4H	26.0	26.9	26.4	27.2	27.6	25.9	26.7	26.3	27.1	27.5
Y=6H	25.9	26.7	26.4	27.1	27.5	25.8	26.6	26.2	27.0	27.4
Y=8H	25.9	26.7	26.3	27.1	27.5	25.7	26.5	26.2	26.9	27.3
Y=12H	25.9	26.6	26.3	27.0	27.4	25.7	26.4	26.1	26.8	27.3
X=4H Y=2H	25.9	26.8	26.3	27.2	27.5	25.8	26.7	26.2	27.0	27.4
Y=3H	25.9	26.6	26.3	27.0	27.4	25.7	26.4	26.1	26.8	27.3
Y=4H	25.8	26.4	26.3	26.9	27.3	25.7	26.3	26.1	26.7	27.2
Y=6H	25.8	26.3	26.2	26.8	27.3	25.6	26.2	26.1	26.6	27.1
Y=8H	25.7	26.2	26.2	26.7	27.2	25.6	26.1	26.1	26.5	27.0
Y=12H	25.7	26.1	26.2	26.6	27.1	25.5	26.0	26.0	26.5	26.9
X=8H Y=4H	25.7	26.2	26.2	26.6	27.1	25.5	26.0	26.0	26.5	27.0
Y=6H	25.6	26.0	26.1	26.5	27.1	25.5	25.9	26.0	26.4	26.9
Y=8H	25.6	26.0	26.1	26.5	27.0	25.4	25.8	26.0	26.3	26.8
Y=12H	25.6	25.9	26.1	26.4	27.0	25.4	25.7	25.9	26.2	26.8
X=12H Y=4H	25.6	26.1	26.1	26.6	27.0	25.5	25.9	26.0	26.4	26.9
Y=6H	25.6	25.9	26.1	26.4	27.0	25.4	25.8	26.0	26.3	26.8
Y=8H	25.5	25.9	26.1	26.4	27.0	25.4	25.7	25.9	26.2	26.8
Variations with the observer position at spacings										
S=1.0H	0.5/-0.6					0.6/-0.7				
S=1.5H	1.0/-1.1					1.1/-1.2				
S=2.0H	1.5/-1.7					1.6/-1.8				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.2					0.2				

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	813.18	813.18	813.18	813.18
γ 5.0	814.23	816.48	771.72	771.49
γ 10.0	776.10	778.75	703.10	700.38
γ 15.0	719.91	710.04	606.61	604.04
γ 20.0	625.43	614.88	500.08	506.92
γ 25.0	519.20	512.30	406.85	413.33
γ 30.0	426.19	417.54	317.29	324.18
γ 35.0	333.16	323.68	242.81	246.48
γ 40.0	253.02	245.38	149.35	150.61
γ 45.0	155.73	151.71	59.56	62.77
γ 50.0	63.38	62.64	19.42	19.68
γ 55.0	23.11	22.95	12.40	12.60
γ 60.0	15.46	15.04	8.80	8.77
γ 65.0	11.05	10.51	6.11	6.16
γ 70.0	7.56	7.02	3.85	3.99
γ 75.0	4.88	4.47	2.28	2.31
γ 80.0	2.69	2.44	1.05	1.00
γ 85.0	1.16	0.87	0.22	0.00
γ 90.0	0.47	0.00	0.00	0.00
γ 95.0	0.00	0.00	0.00	0.00
γ 100.0	0.00	0.00	0.00	0.00
γ 105.0	0.00	0.00	0.00	0.00
γ 110.0	0.00	0.00	0.00	0.00
γ 115.0	0.00	0.00	0.00	0.00
γ 120.0	0.00	0.00	0.00	0.00
γ 125.0	0.00	0.00	0.00	0.00
γ 130.0	0.00	0.00	0.11	0.00
γ 135.0	0.02	0.00	0.60	0.17
γ 140.0	0.32	0.18	1.00	0.68
γ 145.0	0.76	0.67	1.36	1.53
γ 150.0	1.23	0.93	1.77	1.50
γ 155.0	1.52	1.30	1.80	1.87
γ 160.0	2.05	1.89	2.25	1.93
γ 165.0	2.21	2.24	2.60	2.45
γ 170.0	2.64	2.34	2.58	2.74
γ 175.0	3.08	2.83	2.53	2.78
γ 180.0	2.72	2.72	2.72	2.72

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