

# IES Indoor Report

Photometric Filename:DL39-09-PR-03 5000K 60D 银.IES

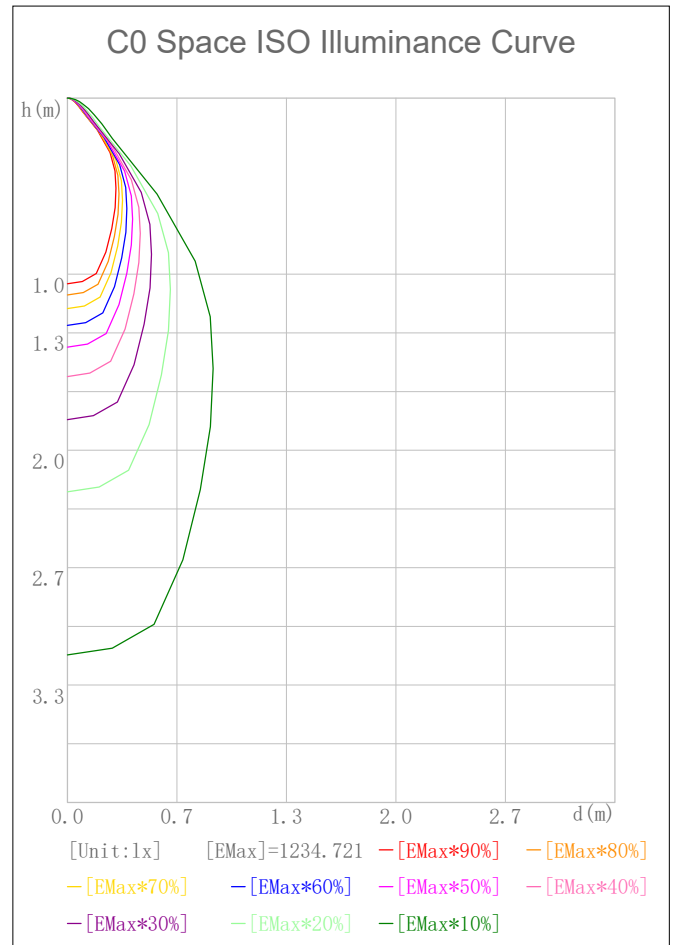
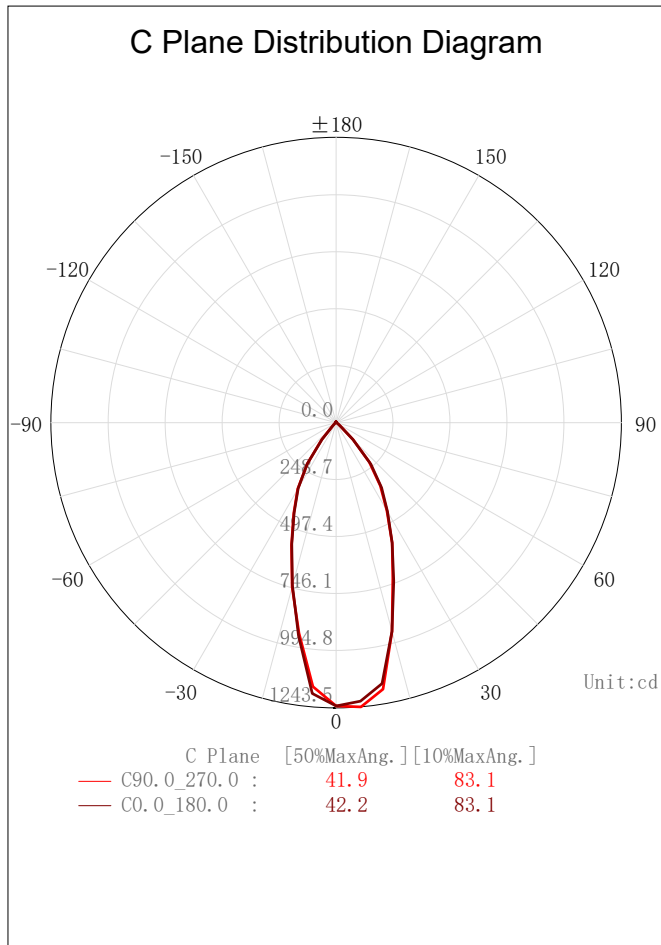
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name: DL39-09-PR-03 5000K 60D 银		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 Departmnt		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): 831.460	Luminary Flux(lm): 831.465	Field Angle(10%Imax): 83.1(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 827.170lm 99.48%	
Rated Voltage(V):	Luminary EER(lm/W): 87.689	Up Lumens&Percent: 4.295lm 0.52%	
Tested Power(W): 9.482	Max. Candela(cd): 1243.543	S/MH: C0_a180=0.650 C90_270=0.649	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.9, 0.042	Beam Angle(50%Imax): 41.9(°)	ErP φ use(90°): 792.419lm	
Lamp Size (W*L*H):0.042m*0.042m*0.000m	Left=-18.5°, Right=23.5°	IRF(%): 294.557	



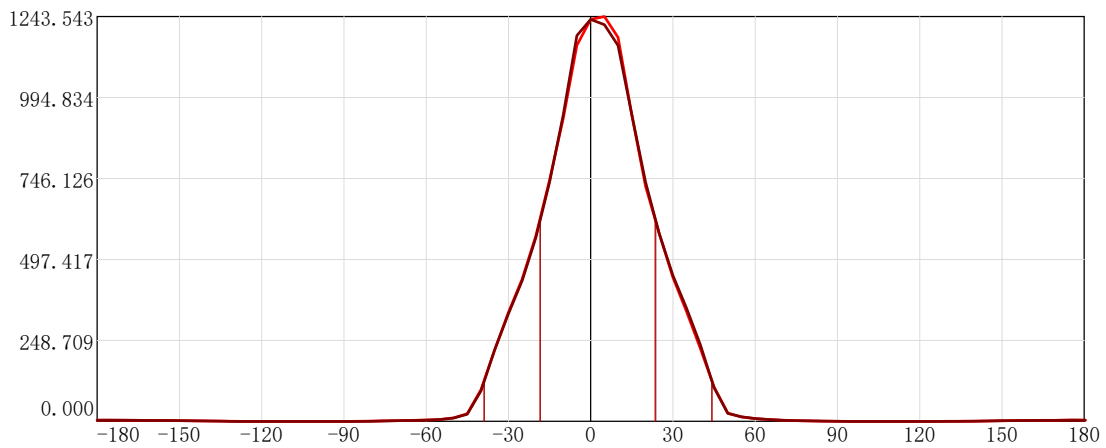
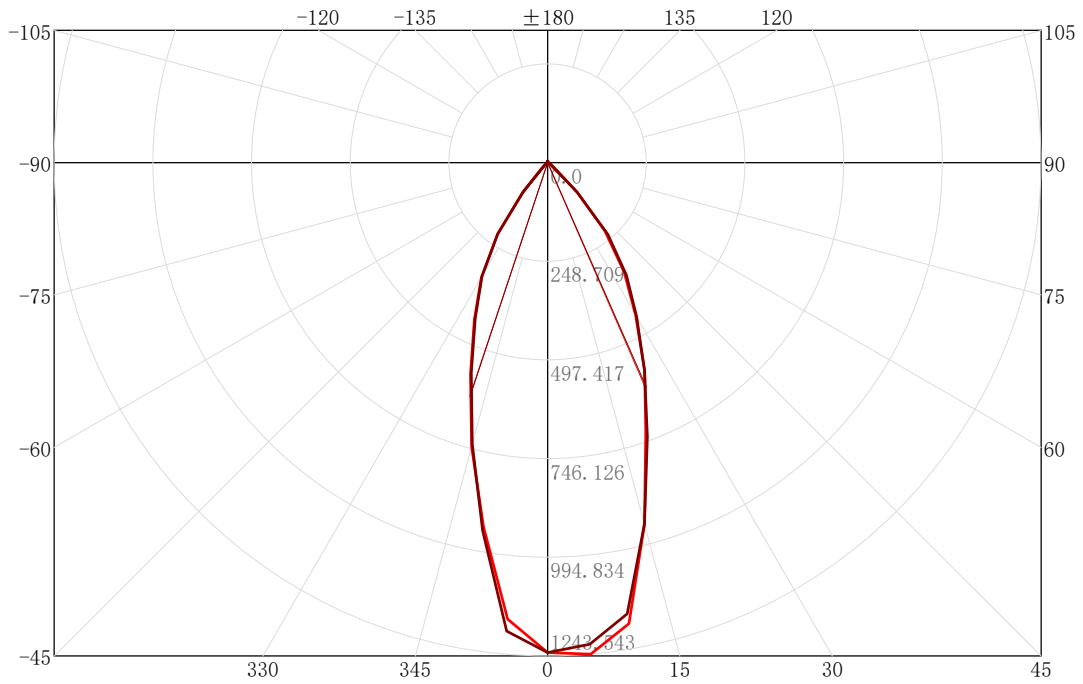
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## 2D Plane Light Intensity Distribution Curve

Lum. Name: DL39-09-PR-03 5000K 60D 银	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 : 41.9 83.1  
 — C0.0\_180.0 : 42.2 83.1

Unit:cd

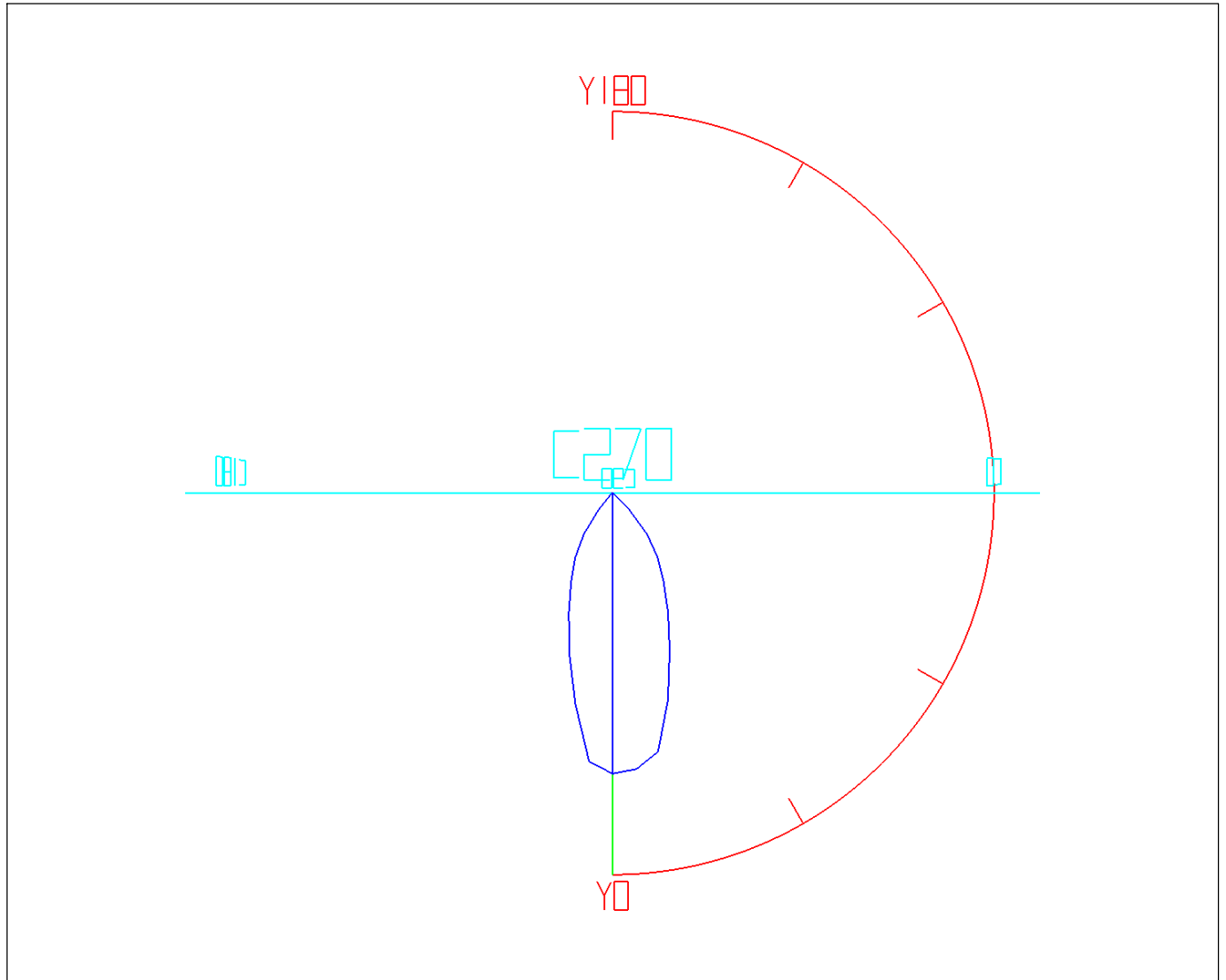
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## 3D Light Intensity Distribution Modal

Lum. Name: DL39-09-PR-03 5000K 60D 银	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(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	29.11	29.11	3.50	3.50
5.0-10.0	80.58	109.69	9.69	13.19
10.0-15.0	112.22	221.90	13.50	26.69
15.0-20.0	122.56	344.47	14.74	41.43
20.0-25.0	120.99	465.46	14.55	55.98
25.0-30.0	113.28	578.74	13.62	69.60
30.0-35.0	98.55	677.28	11.85	81.46
35.0-40.0	73.98	751.26	8.90	90.35
40.0-45.0	42.01	793.27	5.05	95.41
45.0-50.0	16.51	809.77	1.99	97.39
50.0-55.0	6.07	815.84	0.73	98.12
55.0-60.0	3.79	819.63	0.46	98.58
60.0-65.0	2.65	822.28	0.32	98.90
65.0-70.0	1.92	824.20	0.23	99.13
70.0-75.0	1.35	825.55	0.16	99.29
75.0-80.0	0.87	826.42	0.11	99.39
80.0-85.0	0.49	826.92	0.06	99.45
85.0-90.0	0.25	827.17	0.03	99.48
90.0-95.0	0.08	827.25	0.01	99.49
95.0-100.0	0.00	827.25	0.00	99.49
100.0-105.0	0.00	827.25	0.00	99.49
105.0-110.0	0.00	827.25	0.00	99.49
110.0-115.0	0.00	827.25	0.00	99.49
115.0-120.0	0.00	827.25	0.00	99.49
120.0-125.0	0.01	827.26	0.00	99.49
125.0-130.0	0.07	827.33	0.01	99.50
130.0-135.0	0.19	827.51	0.02	99.53
135.0-140.0	0.33	827.85	0.04	99.57
140.0-145.0	0.46	828.31	0.06	99.62
145.0-150.0	0.57	828.88	0.07	99.69
150.0-155.0	0.64	829.52	0.08	99.77
155.0-160.0	0.62	830.14	0.07	99.84
160.0-165.0	0.53	830.67	0.06	99.91
165.0-170.0	0.42	831.09	0.05	99.96
170.0-175.0	0.28	831.37	0.03	99.99
175.0-180.0	0.10	831.46	0.01	100.00

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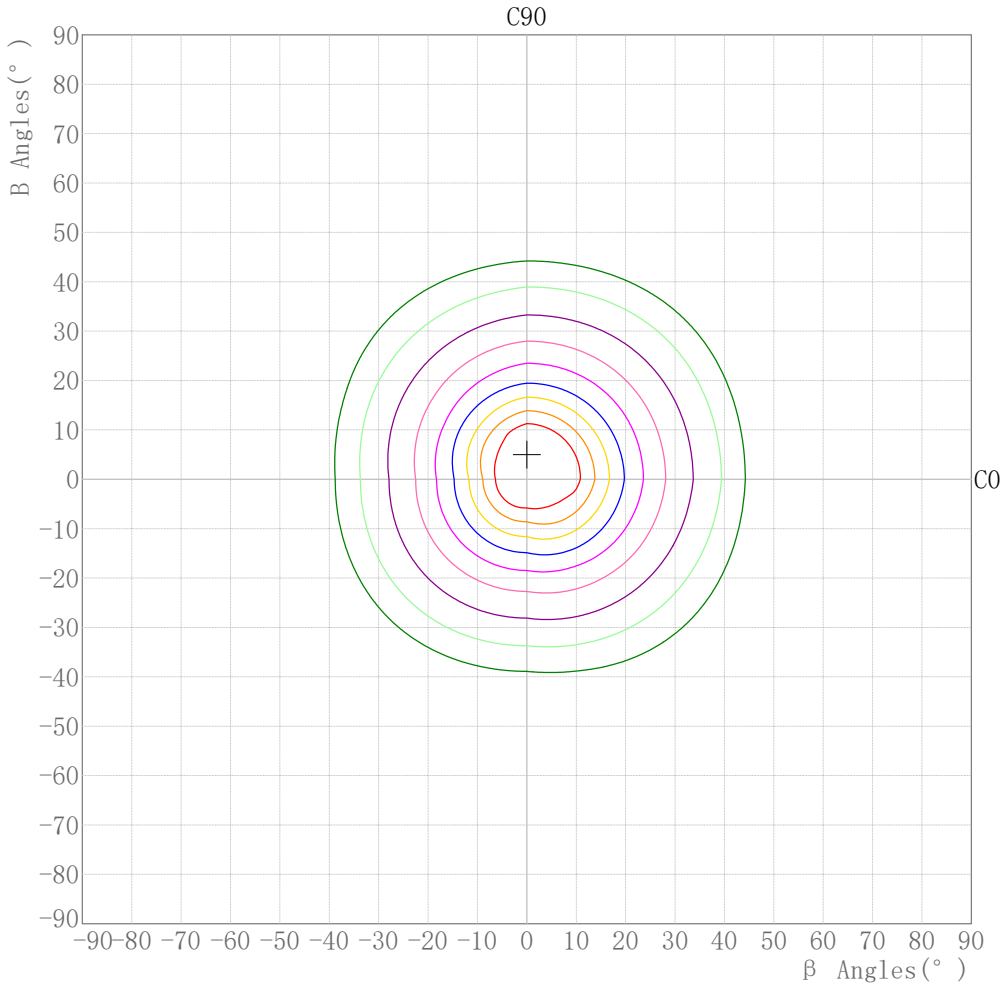
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## Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL39-09-PR-03 5000K 60D 银	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



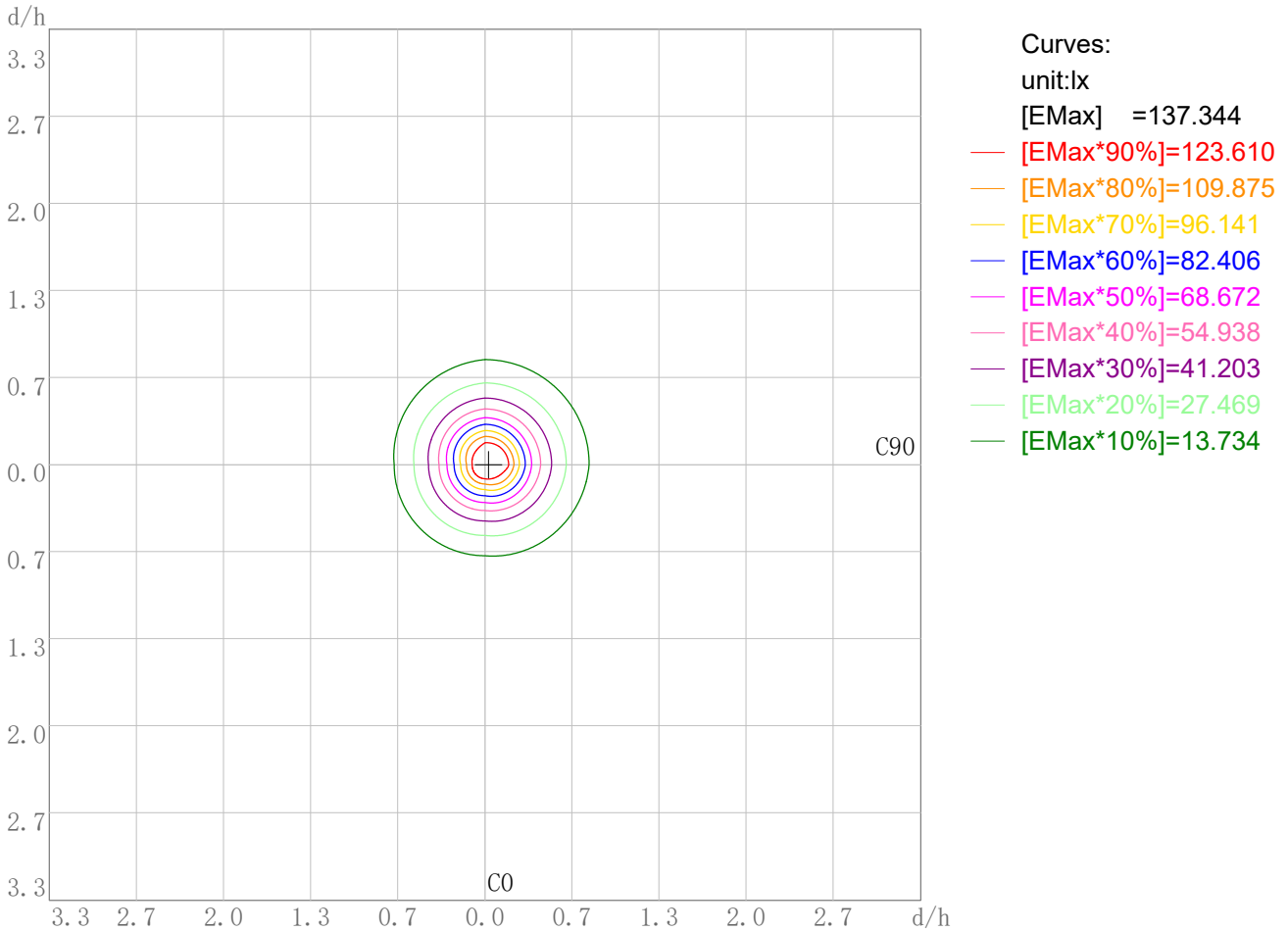
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## Plane ISO-Illuminance Diagram

Lum. Name: DL39-09-PR-03 5000K 60D 银	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



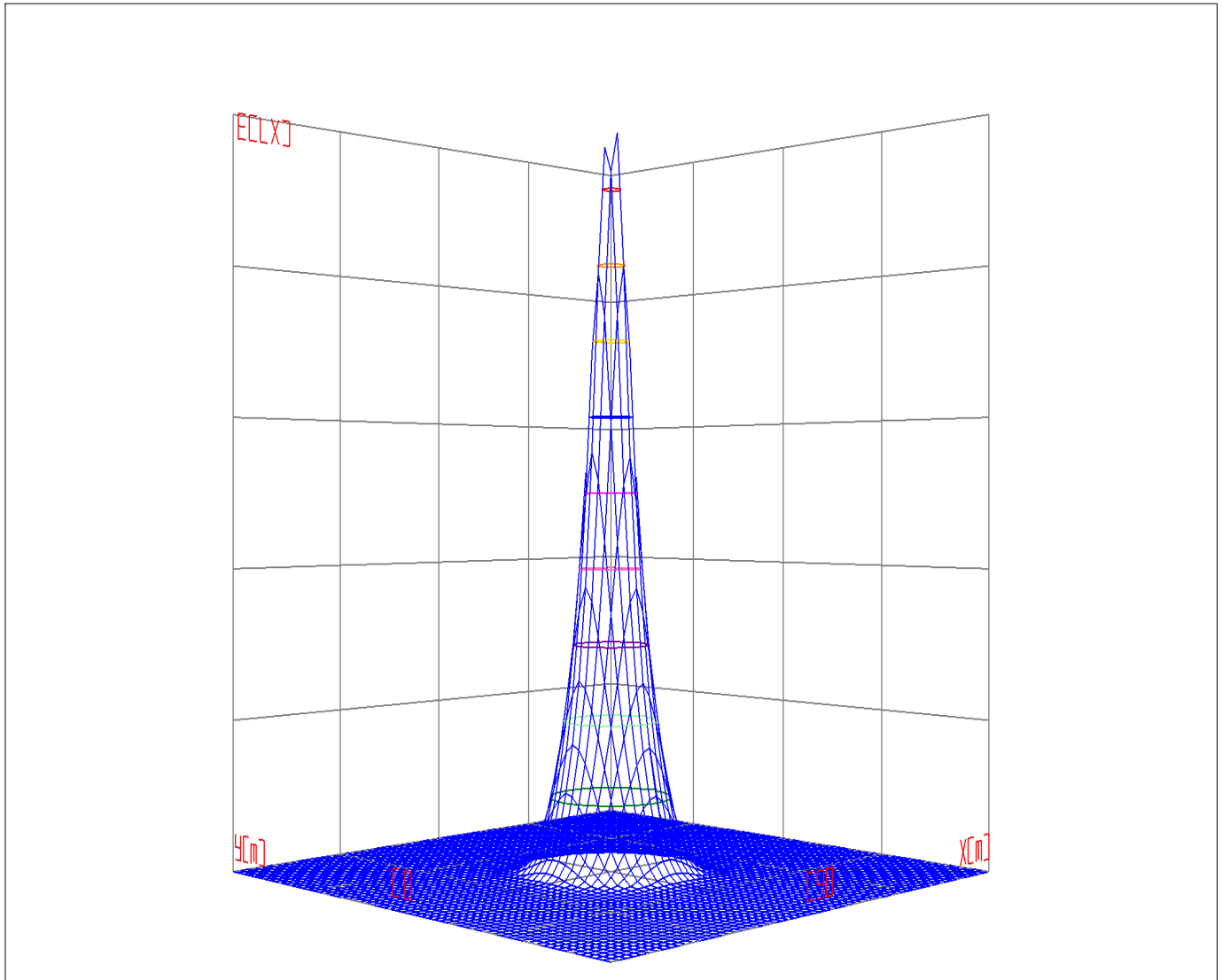
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## 3D Plane ISO Illuminance Diagram

Lum. Name: DL39-09-PR-03 5000K 60D 银	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

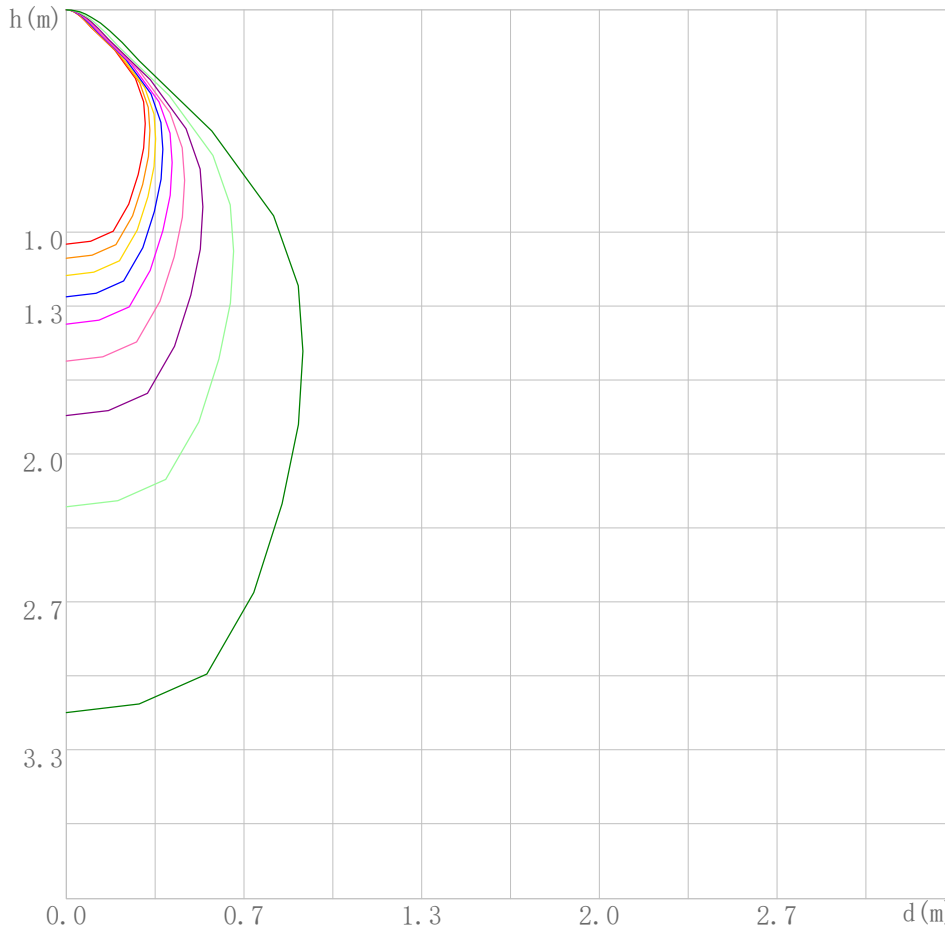
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## Space ISO Illuminance Diagram

Lum. Name: DL39-09-PR-03 5000K 60D 银	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

### Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =1234.721

— [EMax\*90%]=1111.249

— [EMax\*80%]=987.777

— [EMax\*70%]=864.305

— [EMax\*60%]=740.833

— [EMax\*50%]=617.360

— [EMax\*40%]=493.888

— [EMax\*30%]=370.416

— [EMax\*20%]=246.944

— [EMax\*10%]=123.472

Space Plane Maximum Illuminance and @Angle:1234.72lx,0.0deg

Plane Maximum Lighting Intensity and @Angle:1234.721cd,0deg





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## Indoor Luminance Limiting Curves

Lum. Name: DL39-09-PR-03 5000K 60D 银	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

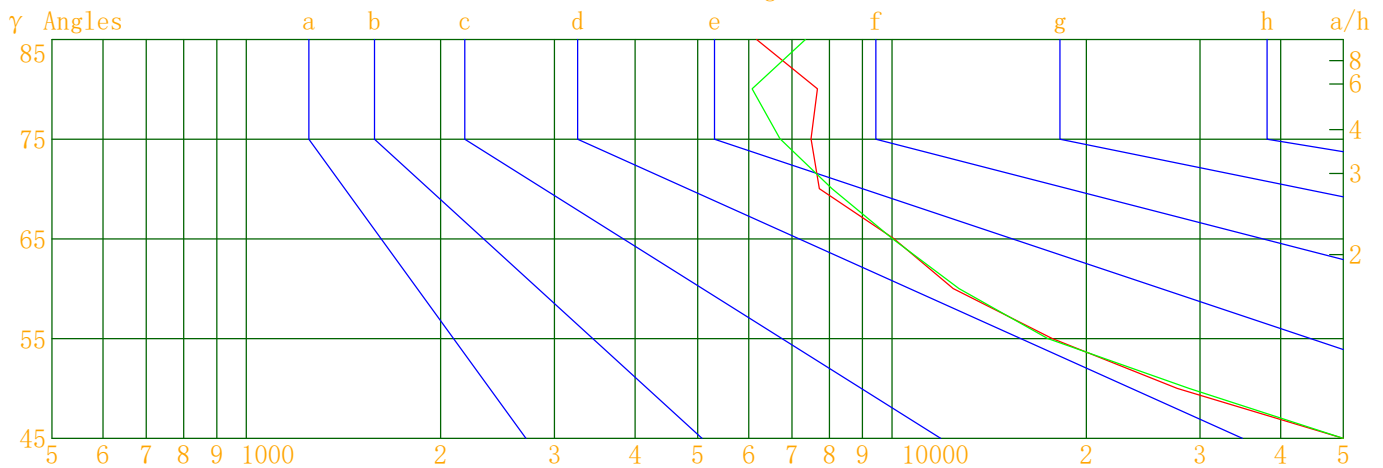
Glare Grade Table

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	106075	27664	17703	12439	10063	7718	7491	7665	6170
C90	107719	28854	17418	12698	10012	8072	6707	6073	7346

Luminance Limiting Curve



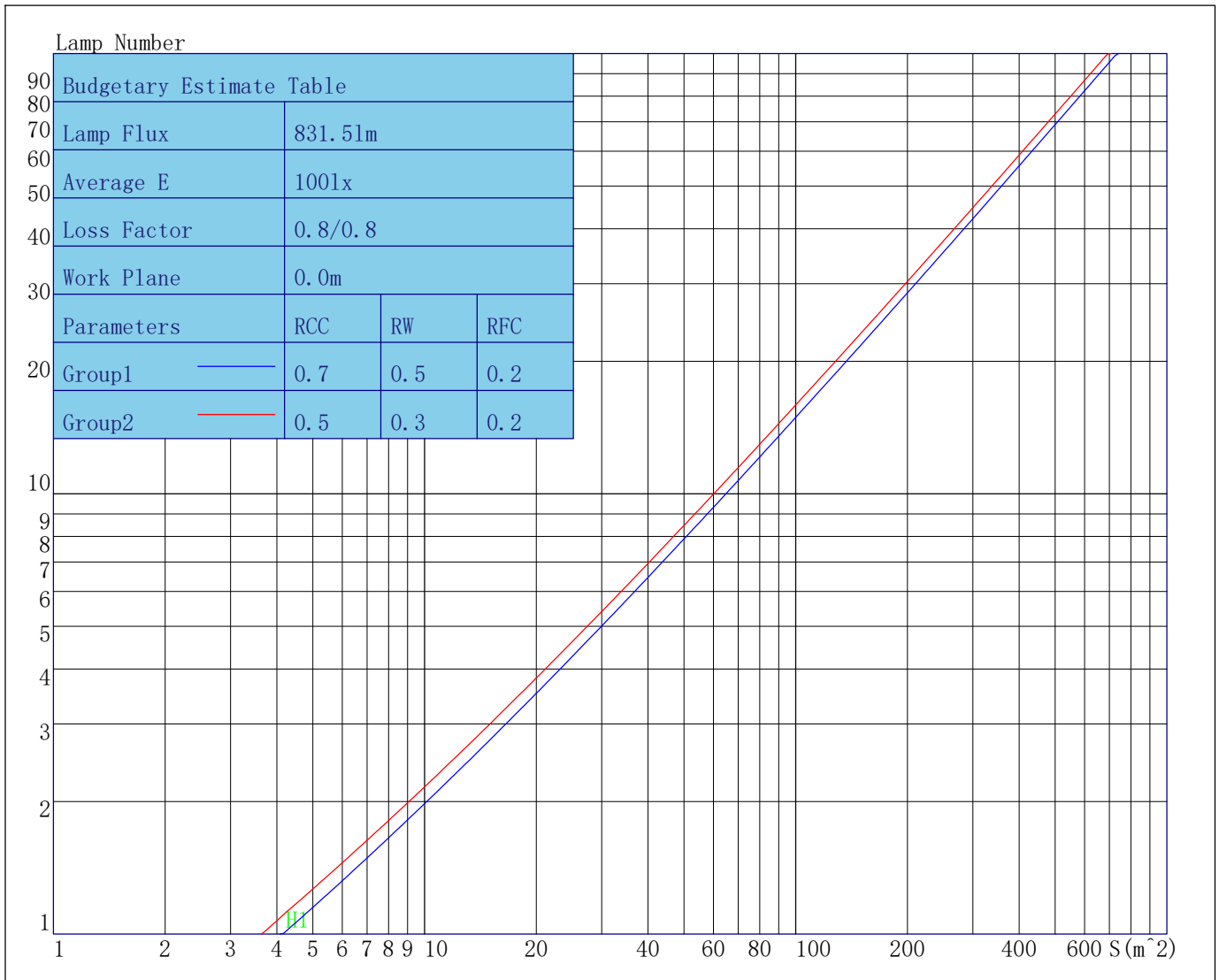
Luminous Size: Length(m)=-0.042 Width(m)=-0.042 Height(m)=0.000 Area(m<sup>2</sup>)=0.001385  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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## Indoor Budgetary Estimate Table

Lum. Name: DL39-09-PR-03 5000K 60D 银	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14



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-03 5000K 60D 银	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

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	99
1	113	111	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	84	82	81
4	97	90	84	80	95	89	84	80	86	82	79	84	81	78	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	74	69	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58
9	76	67	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

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## Unified Glare Rating Table

Lum. Name: DL39-09-PR-03 5000K 60D 银	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	24.9	25.9	25.3	26.2	26.5	24.8	25.8	25.2	26.1	26.4
Y=3H	24.7	25.6	25.1	26.0	26.3	24.6	25.5	25.0	25.8	26.2
Y=4H	24.7	25.5	25.1	25.8	26.2	24.5	25.3	25.0	25.7	26.1
Y=6H	24.6	25.3	25.0	25.7	26.1	24.4	25.2	24.9	25.6	26.0
Y=8H	24.5	25.2	25.0	25.6	26.0	24.4	25.1	24.8	25.5	25.9
Y=12H	24.5	25.1	24.9	25.5	26.0	24.3	25.0	24.8	25.4	25.8
X=4H Y=2H	24.6	25.4	25.0	25.8	26.2	24.5	25.3	24.9	25.7	26.1
Y=3H	24.5	25.1	24.9	25.5	26.0	24.4	25.0	24.8	25.4	25.8
Y=4H	24.4	25.0	24.8	25.4	25.9	24.3	24.8	24.7	25.3	25.7
Y=6H	24.3	24.8	24.8	25.3	25.7	24.2	24.7	24.7	25.1	25.6
Y=8H	24.2	24.7	24.7	25.2	25.7	24.1	24.6	24.6	25.0	25.5
Y=12H	24.2	24.6	24.7	25.1	25.6	24.1	24.5	24.6	25.0	25.4
X=8H Y=4H	24.2	24.7	24.7	25.1	25.6	24.1	24.6	24.6	25.0	25.5
Y=6H	24.1	24.5	24.6	25.0	25.5	24.0	24.4	24.5	24.9	25.4
Y=8H	24.1	24.4	24.6	24.9	25.4	23.9	24.3	24.5	24.8	25.3
Y=12H	24.0	24.3	24.6	24.8	25.4	23.9	24.2	24.4	24.7	25.3
X=12H Y=4H	24.1	24.5	24.6	25.0	25.5	24.0	24.4	24.5	24.9	25.4
Y=6H	24.1	24.4	24.6	24.9	25.4	23.9	24.3	24.5	24.7	25.3
Y=8H	24.0	24.3	24.6	24.8	25.4	23.9	24.2	24.4	24.7	25.3
Variations with the observer position at spacings										
S=1.0H	0.4/-0.4					0.4/-0.5				
S=1.5H	0.7/-0.8					0.9/-0.9				
S=2.0H	1.3/-1.2					1.5/-1.4				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.1					0.1				

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	1234.72	1234.72	1234.72	1234.72
γ 5.0	1218.40	1243.54	1185.11	1154.83
γ 10.0	1154.75	1179.42	942.05	931.53
γ 15.0	942.13	942.35	733.72	740.96
γ 20.0	735.22	722.45	563.09	568.80
γ 25.0	577.75	578.11	431.83	437.18
γ 30.0	448.49	442.54	330.49	334.03
γ 35.0	346.29	336.30	219.87	218.83
γ 40.0	235.81	224.81	93.92	97.71
γ 45.0	103.92	105.53	22.32	23.45
γ 50.0	24.64	25.70	10.28	10.97
γ 55.0	14.07	13.84	6.04	6.08
γ 60.0	8.62	8.80	3.88	4.27
γ 65.0	5.89	5.86	3.00	3.29
γ 70.0	3.66	3.83	2.50	2.31
γ 75.0	2.69	2.40	1.47	1.77
γ 80.0	1.84	1.46	0.62	0.81
γ 85.0	0.75	0.89	0.24	0.65
γ 90.0	0.39	0.45	0.15	0.17
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	0.15
γ 130.0	0.47	0.00	0.16	0.50
γ 135.0	0.33	0.26	0.88	1.08
γ 140.0	0.83	0.72	1.50	1.54
γ 145.0	1.49	1.35	1.77	1.92
γ 150.0	2.54	1.94	2.23	2.25
γ 155.0	2.51	2.71	2.99	3.18
γ 160.0	2.81	3.07	3.16	3.06
γ 165.0	3.45	3.15	3.60	3.58
γ 170.0	3.62	3.48	3.77	3.61
γ 175.0	4.14	4.19	3.90	4.14
γ 180.0	4.00	4.00	4.00	4.00

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