

IES Indoor Report

Photometric Filename:DL39-09-PR-03 3000K 60D 黑.IES

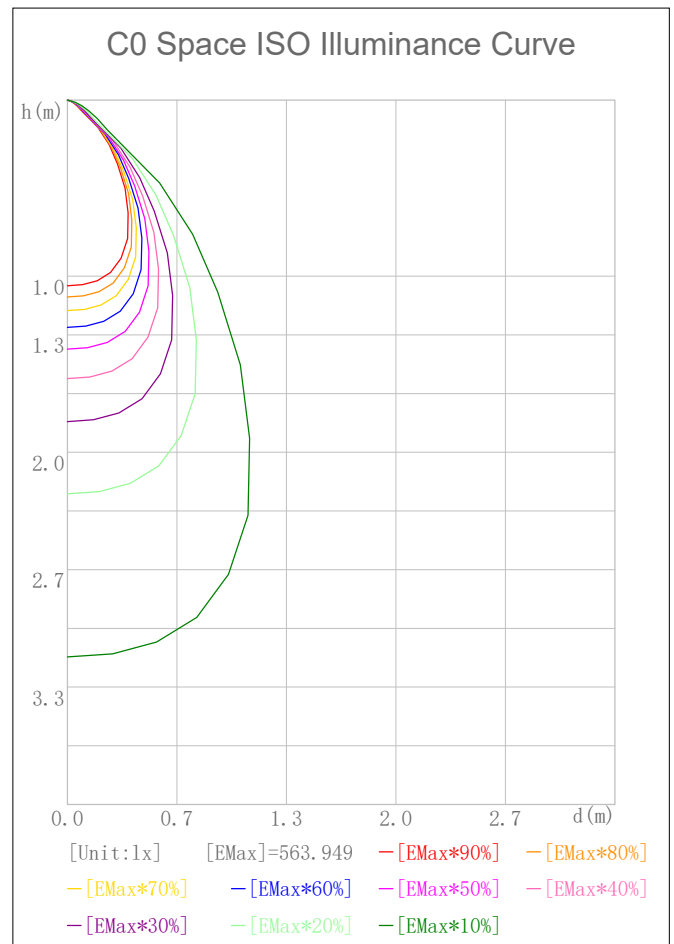
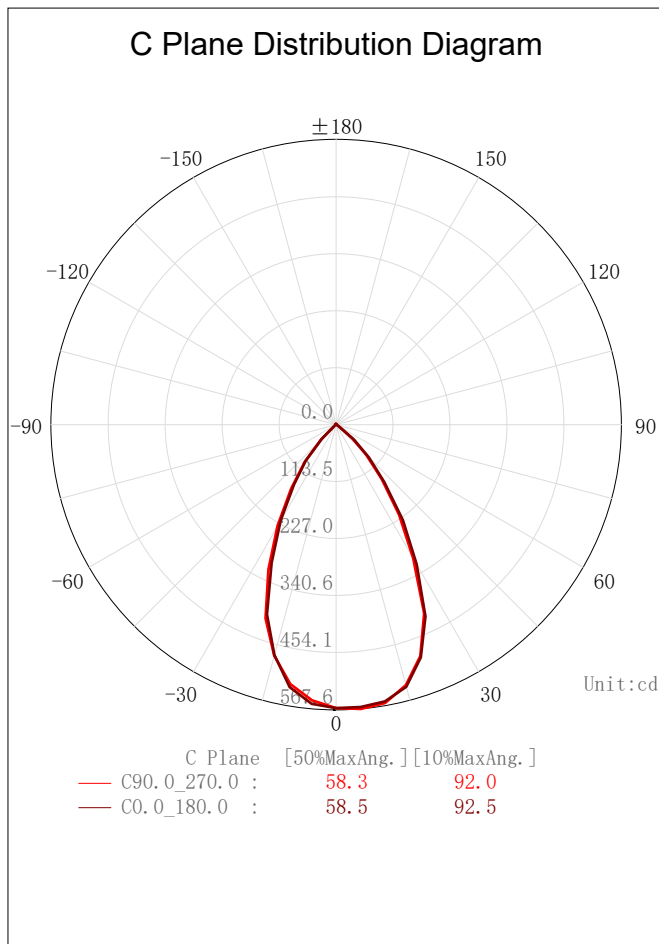
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL39-09-PR-03 3000K 60D 黑		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): 542.650	Luminary Flux(lm): 542.655	Field Angle(10%Imax): 92.0(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 542.217lm 99.92%
Rated Voltage(V):	Luminary EER(lm/W): 56.544	Up Lumens&Percent: 0.438lm 0.08%
Tested Power(W): 9.597	Max. Candela(cd): 567.612	S/MH: C0_a180=0.910 C90_270=0.913
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):239.8, 0.042	Beam Angle(50%Imax): 58.3(°)	ErP φ use(90°): 510.441lm
Lamp Size (W*L*H):0.042m*0.042m*0.000m	Left=-27.0°, Right=31.3°	IRF(%): 207.422



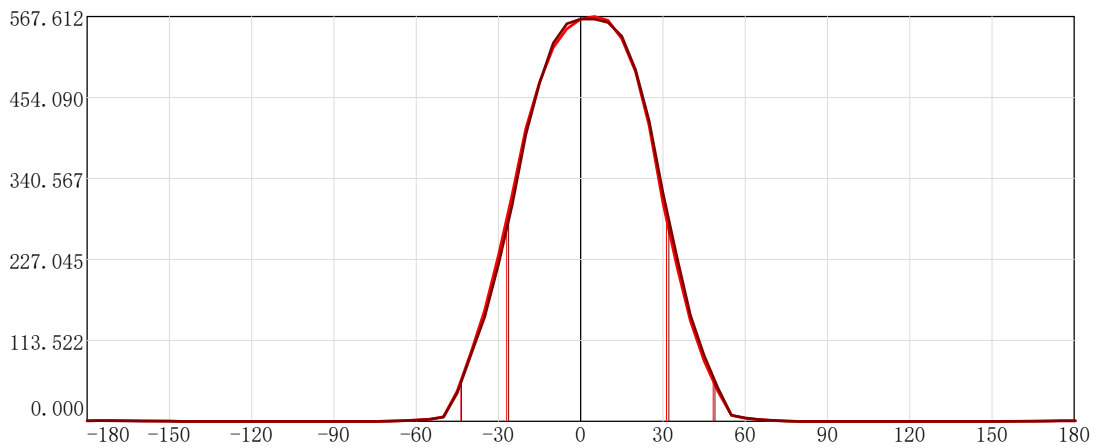
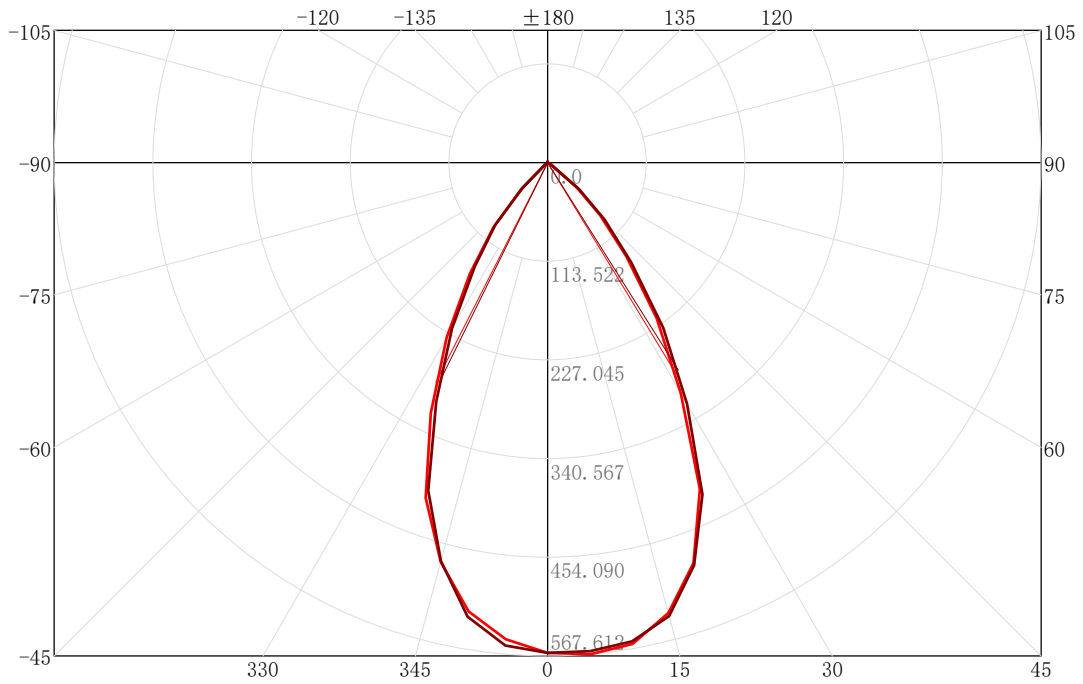
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2D Plane Light Intensity Distribution Curve

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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	58.3	92.0
C0.0_180.0	58.5	92.5

Unit:cd

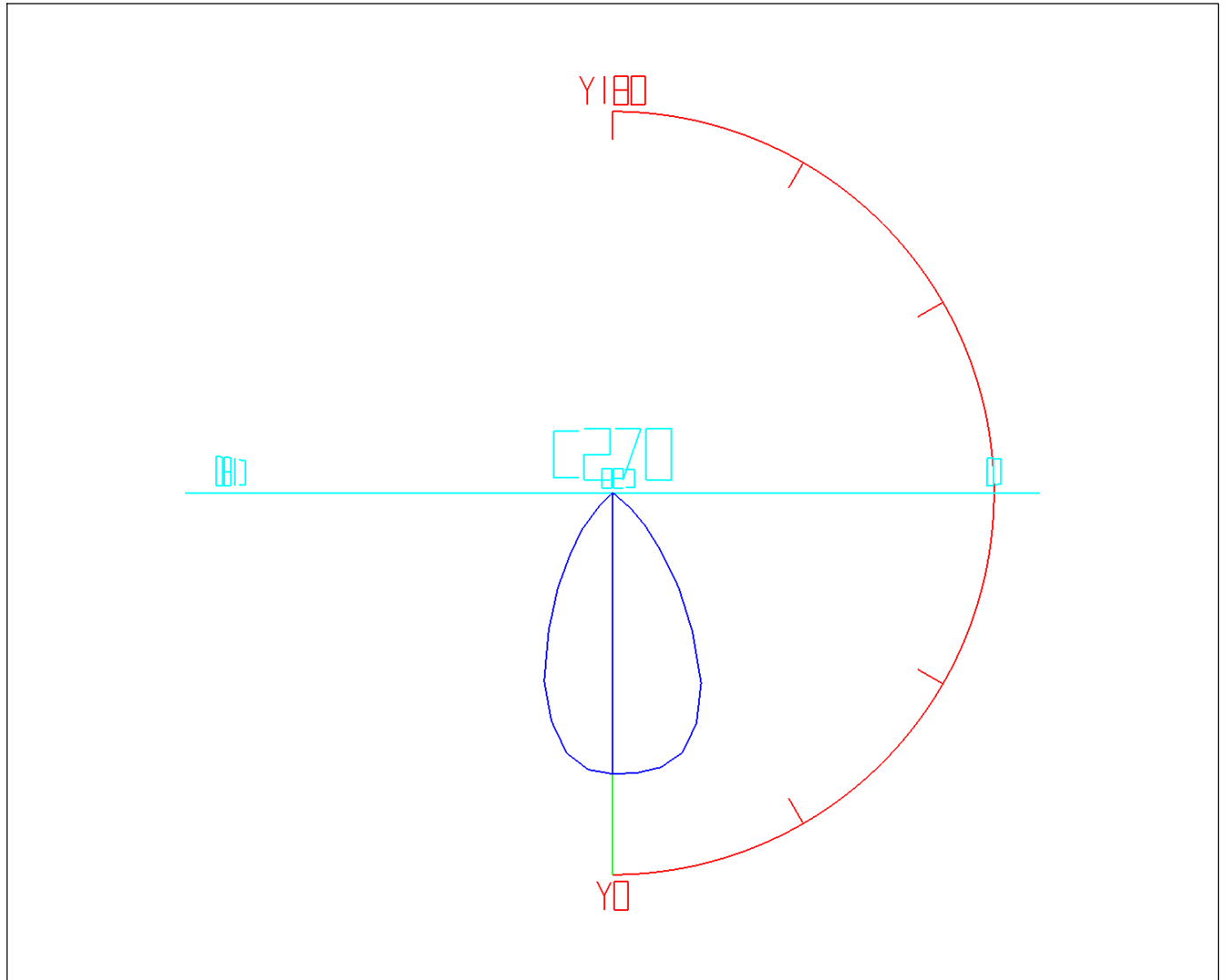
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3D Light Intensity Distribution Modal

Lum. Name: DL39-09-PR-03 3000K 60D 黑	Lum. Catalog:	Test ID: 01
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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	13.43	13.43	2.48	2.48
5.0-10.0	39.49	52.92	7.28	9.75
10.0-15.0	62.31	115.24	11.48	21.24
15.0-20.0	78.72	193.95	14.51	35.74
20.0-25.0	85.25	279.21	15.71	51.45
25.0-30.0	80.23	359.44	14.79	66.24
30.0-35.0	67.43	426.87	12.43	78.66
35.0-40.0	51.46	478.33	9.48	88.15
40.0-45.0	34.33	512.65	6.33	94.47
45.0-50.0	18.30	530.96	3.37	97.84
50.0-55.0	6.81	537.77	1.26	99.10
55.0-60.0	2.11	539.87	0.39	99.49
60.0-65.0	1.25	541.12	0.23	99.72
65.0-70.0	0.68	541.81	0.13	99.84
70.0-75.0	0.32	542.12	0.06	99.90
75.0-80.0	0.09	542.22	0.02	99.92
80.0-85.0	0.00	542.22	0.00	99.92
85.0-90.0	0.00	542.22	0.00	99.92
90.0-95.0	0.00	542.22	0.00	99.92
95.0-100.0	0.00	542.22	0.00	99.92
100.0-105.0	0.00	542.22	0.00	99.92
105.0-110.0	0.00	542.22	0.00	99.92
110.0-115.0	0.00	542.22	0.00	99.92
115.0-120.0	0.00	542.22	0.00	99.92
120.0-125.0	0.00	542.22	0.00	99.92
125.0-130.0	0.00	542.22	0.00	99.92
130.0-135.0	0.00	542.22	0.00	99.92
135.0-140.0	0.00	542.22	0.00	99.92
140.0-145.0	0.00	542.22	0.00	99.92
145.0-150.0	0.03	542.25	0.01	99.93
150.0-155.0	0.06	542.31	0.01	99.94
155.0-160.0	0.08	542.39	0.01	99.95
160.0-165.0	0.09	542.48	0.02	99.97
165.0-170.0	0.09	542.56	0.02	99.98
170.0-175.0	0.07	542.63	0.01	100.00
175.0-180.0	0.02	542.65	0.00	100.00

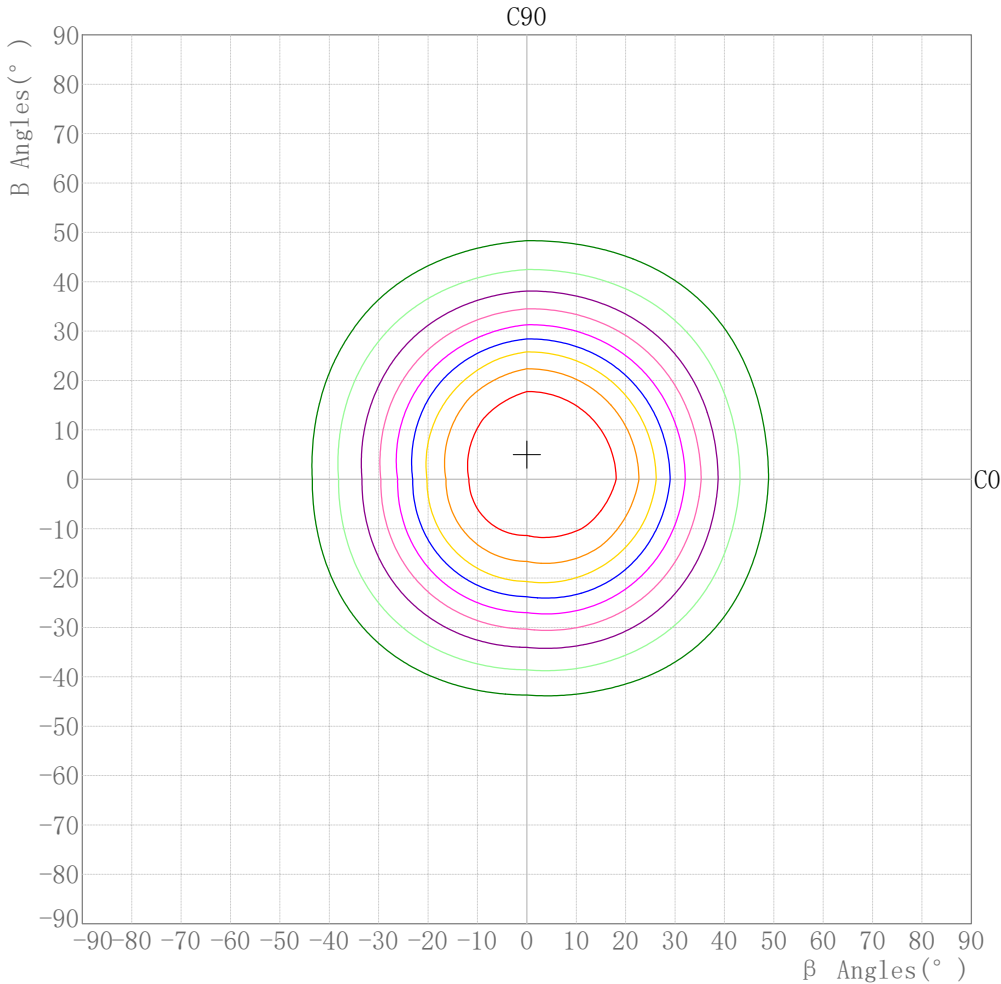
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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



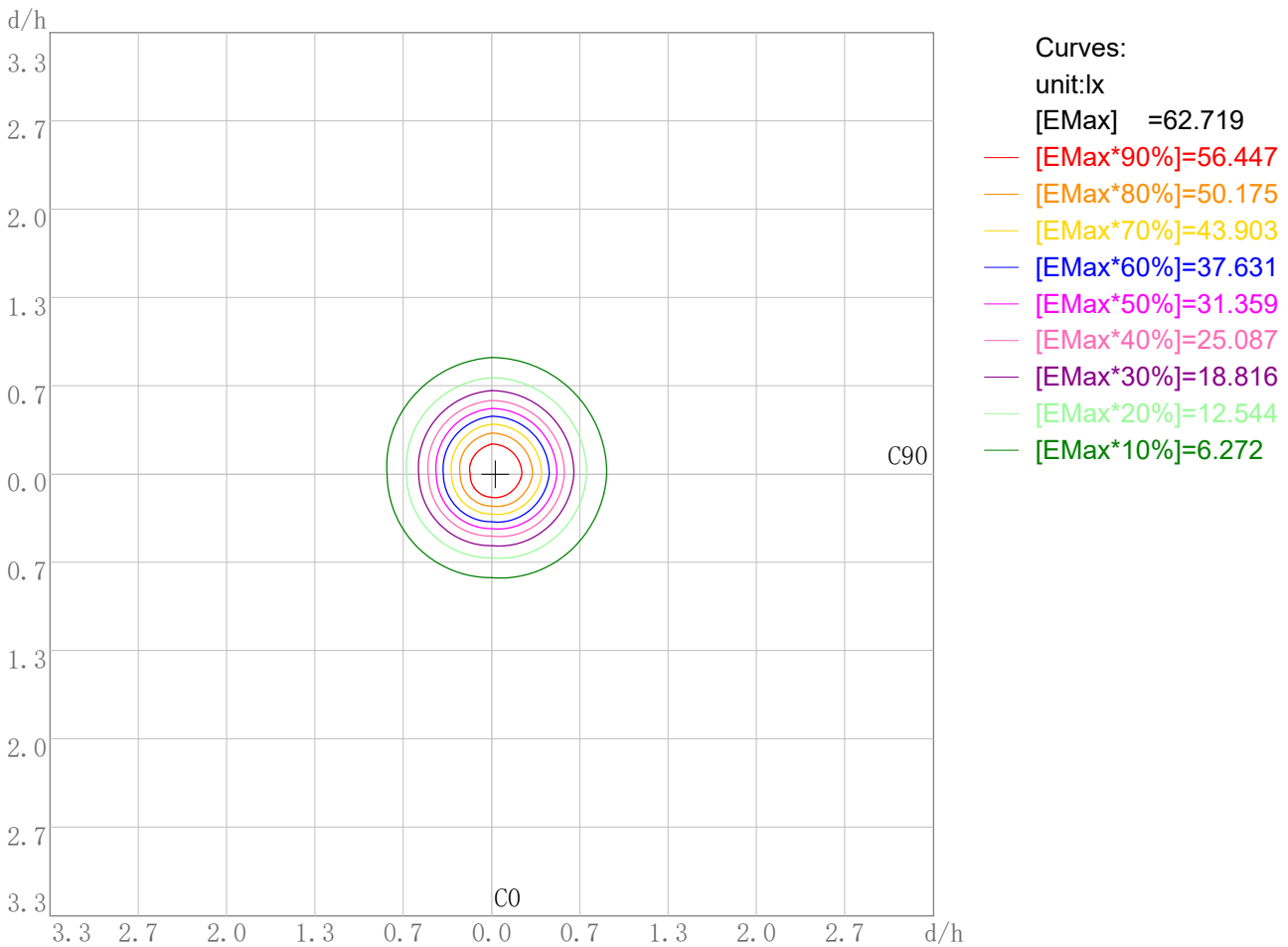
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Plane ISO-Illuminance Diagram

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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



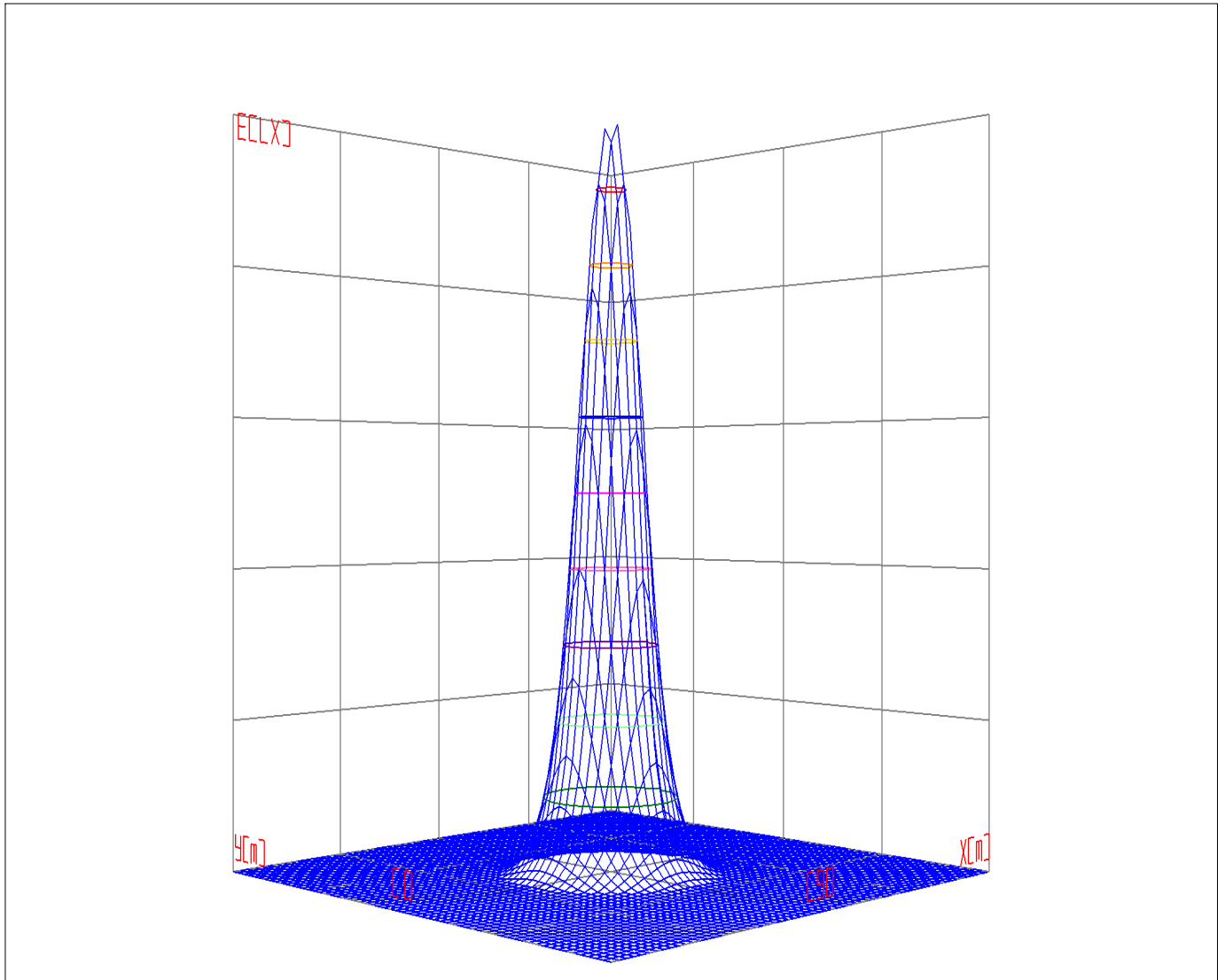
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3D Plane ISO Illuminance Diagram

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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

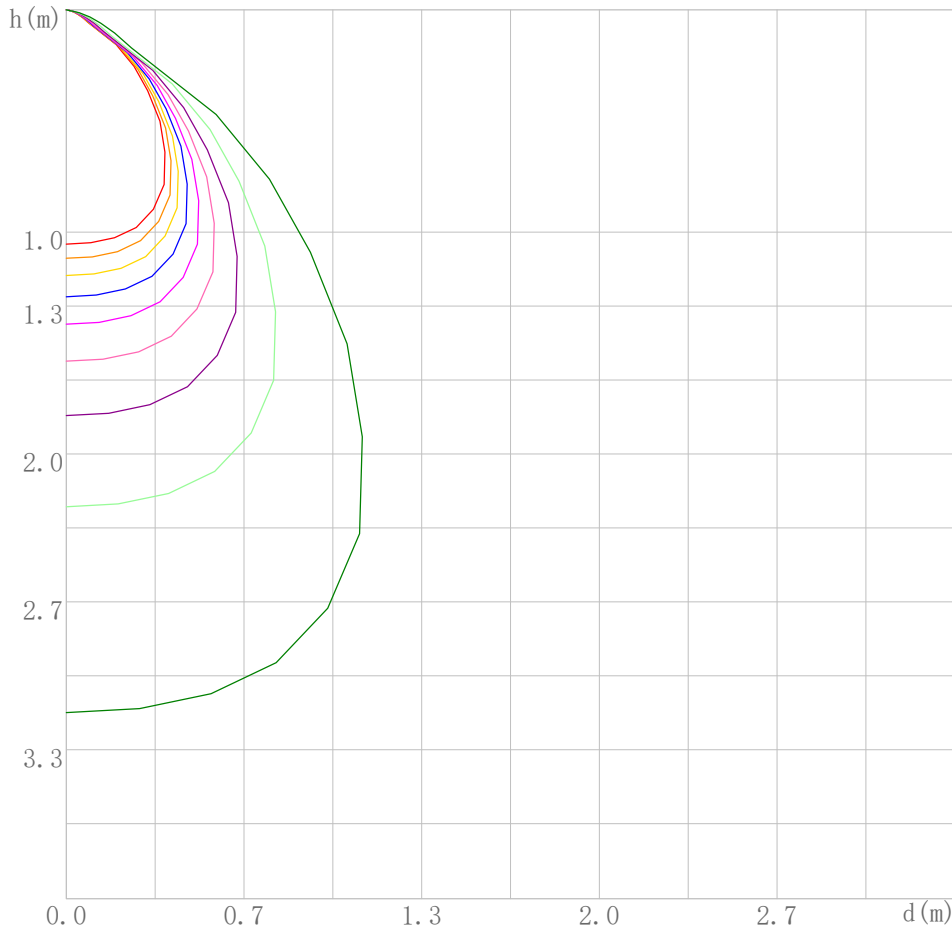
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Space ISO Illuminance Diagram

Lum. Name: DL39-09-PR-03 3000K 60D 黑	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =563.949

— [EMax*90%]=507.554

— [EMax*80%]=451.159

— [EMax*70%]=394.764

— [EMax*60%]=338.369

— [EMax*50%]=281.974

— [EMax*40%]=225.580

— [EMax*30%]=169.185

— [EMax*20%]=112.790

— [EMax*10%]=56.395

Space Plane Maximum Illuminance and @Angle:563.95lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:564.015cd,0deg

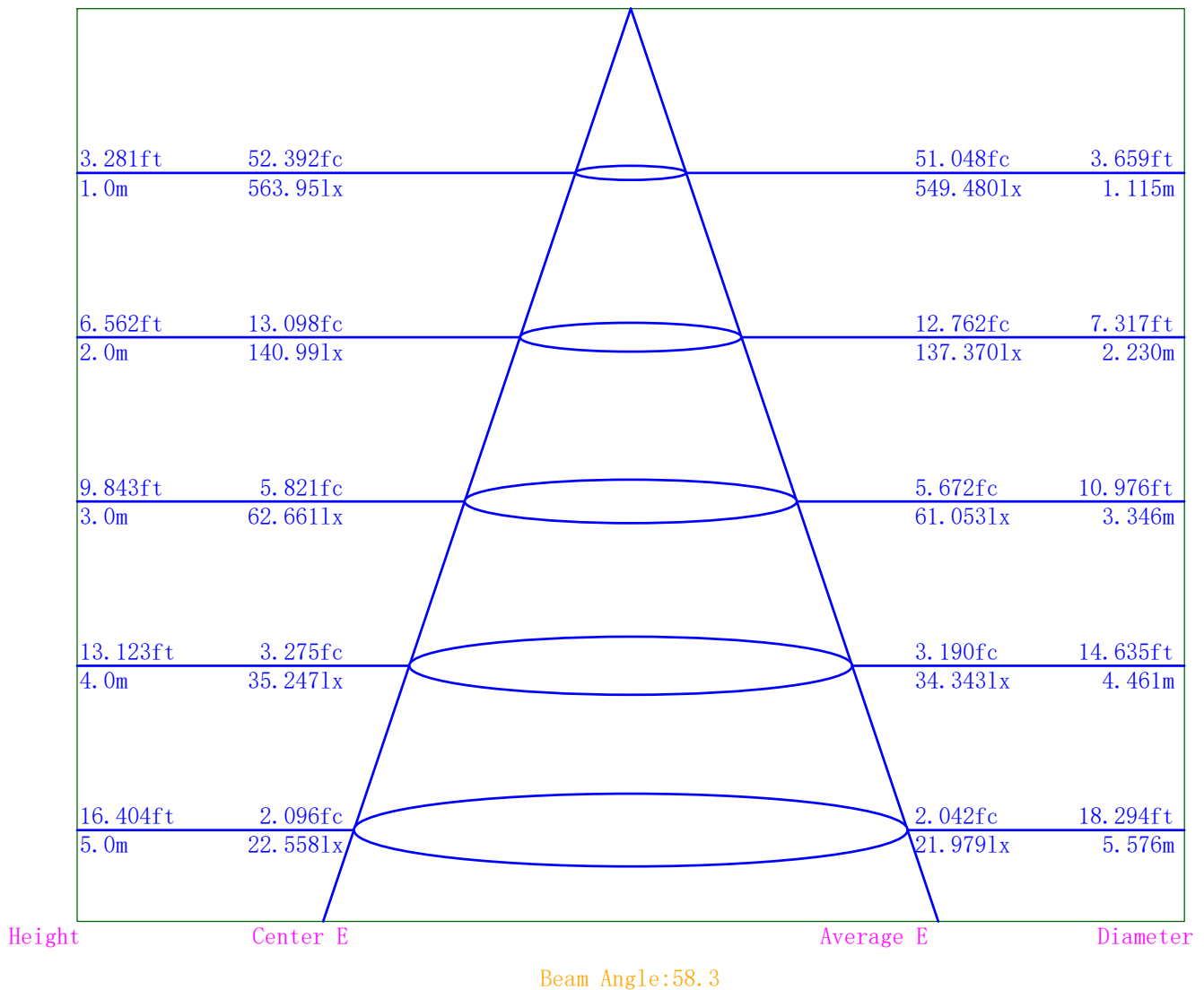
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Illuminance-Distance Diagram

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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-03 3000K 60D 黑	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lightin	Test Machine:GON-2000	Test Date: 2022/10/14

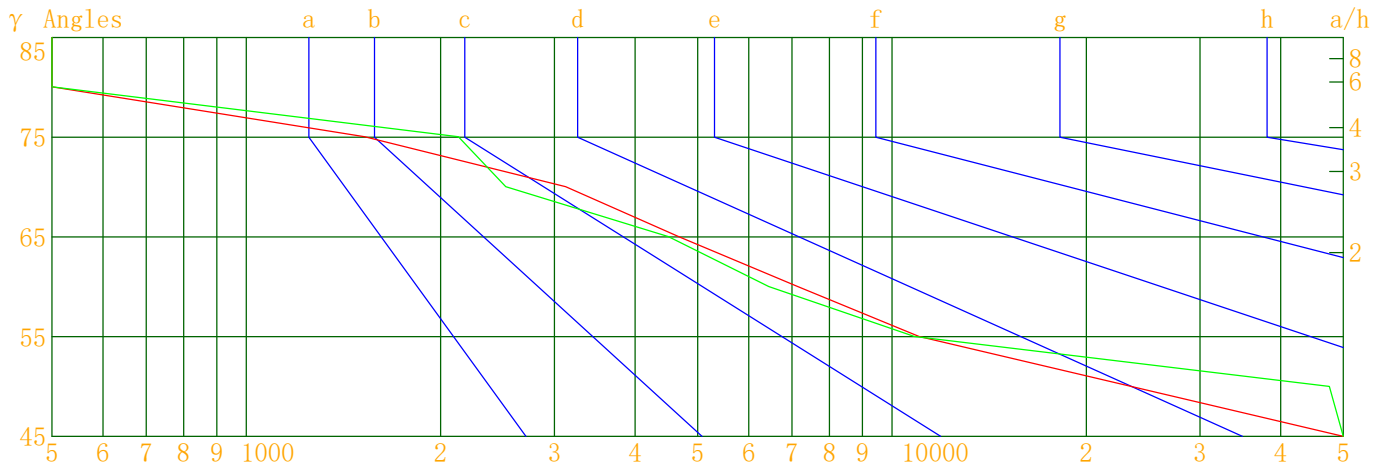
Glare Grade Table

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	94509	52938	11017	7146	4673	3123	1525	0	0
C90	86845	47576	10836	6446	4505	2522	2131	0	0

Luminance Limiting Curve



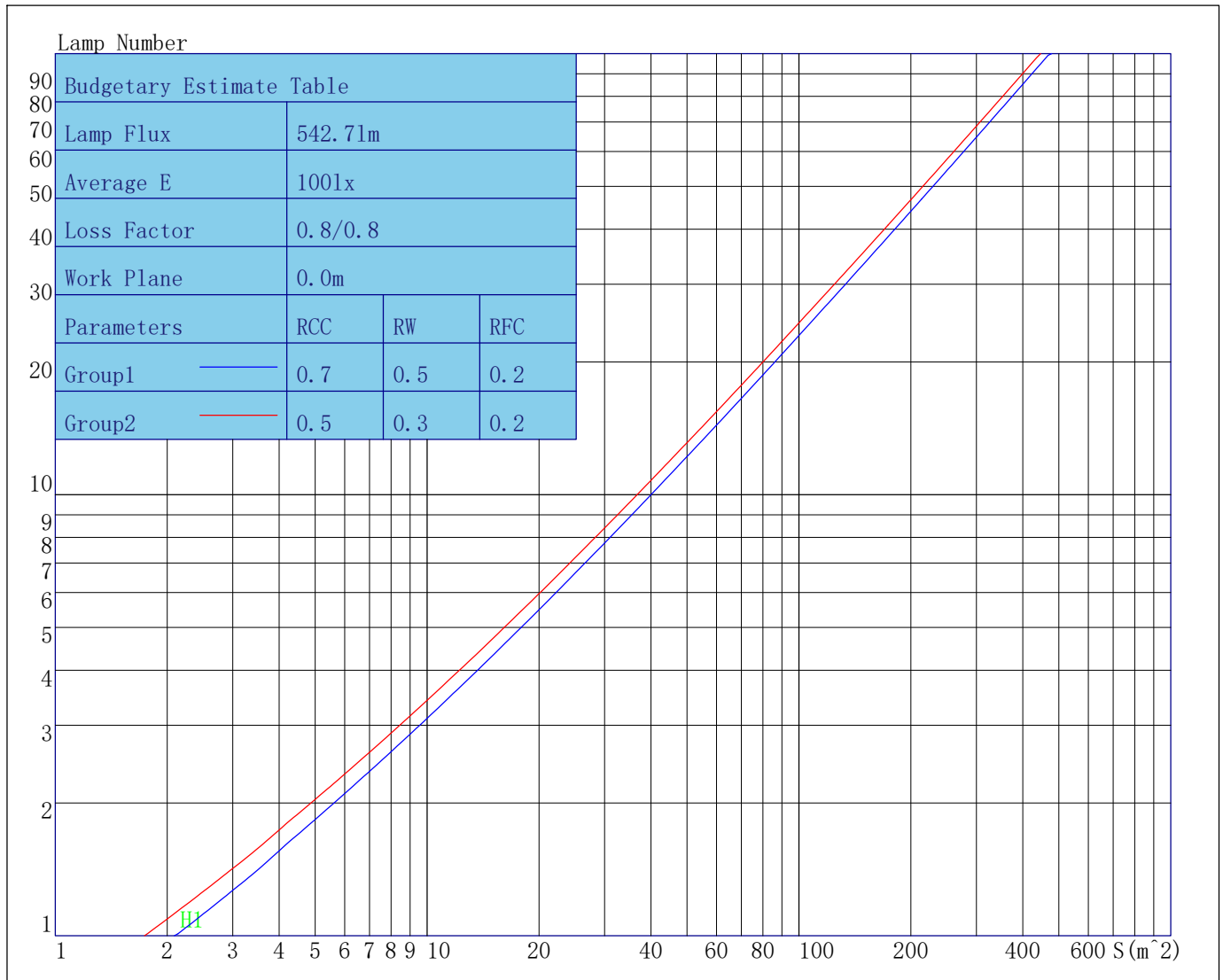
Luminous Size: Length(m)=-0.042 Width(m)=-0.042 Height(m)=0.000 Area(m²)=0.001385
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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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: DL39-09-PR-03 3000K 60D 黑	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	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	96	89	83	78	95	87	82	78	85	81	77	83	79	76	81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71	78	74	70	77	73	70	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	65	61	69	64	61	68	64	61	59
8	78	68	62	58	77	67	61	57	66	61	57	65	60	57	64	60	57	55
9	74	64	58	54	73	63	58	54	62	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	49

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Unified Glare Rating Table

Lum. Name: DL39-09-PR-03 3000K 60D 黑	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	24.3	25.3	24.7	25.6	26.0	24.0	25.0	24.3	25.3	25.6
Y=3H	24.1	25.0	24.5	25.4	25.7	23.8	24.7	24.2	25.0	25.4
Y=4H	24.0	24.9	24.4	25.2	25.6	23.7	24.5	24.1	24.9	25.3
Y=6H	23.9	24.7	24.3	25.1	25.5	23.6	24.4	24.0	24.7	25.1
Y=8H	23.9	24.6	24.3	25.0	25.4	23.5	24.3	24.0	24.6	25.1
Y=12H	23.8	24.5	24.2	24.9	25.3	23.5	24.2	23.9	24.5	25.0
X=4H Y=2H	24.0	24.9	24.4	25.2	25.6	23.7	24.5	24.1	24.9	25.3
Y=3H	23.8	24.5	24.3	24.9	25.3	23.5	24.2	23.9	24.6	25.0
Y=4H	23.7	24.3	24.2	24.8	25.2	23.4	24.0	23.8	24.4	24.9
Y=6H	23.6	24.1	24.1	24.6	25.1	23.3	23.8	23.8	24.3	24.7
Y=8H	23.5	24.0	24.0	24.5	25.0	23.2	23.7	23.7	24.2	24.6
Y=12H	23.5	23.9	24.0	24.4	24.9	23.2	23.6	23.6	24.1	24.5
X=8H Y=4H	23.5	24.0	24.0	24.5	25.0	23.2	23.7	23.7	24.2	24.6
Y=6H	23.4	23.8	23.9	24.3	24.8	23.1	23.5	23.6	24.0	24.5
Y=8H	23.3	23.7	23.9	24.2	24.7	23.0	23.4	23.6	23.9	24.4
Y=12H	23.3	23.6	23.8	24.1	24.7	23.0	23.3	23.5	23.8	24.3
X=12H Y=4H	23.5	23.9	24.0	24.4	24.9	23.2	23.6	23.6	24.1	24.5
Y=6H	23.4	23.7	23.9	24.2	24.7	23.0	23.4	23.6	23.8	24.4
Y=8H	23.3	23.6	23.8	24.1	24.7	23.0	23.3	23.5	23.8	24.3
Variations with the observer position at spacings										
S=1.0H	2.3/-4.1					2.3/-4.0				
S=1.5H	3.0/-5.0					2.1/-4.0				
S=2.0H	3.6/-6.5					3.7/-4.3				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.0					0.0				

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	563.95	563.95	563.95	563.95
γ 5.0	564.02	567.61	557.53	550.31
γ 10.0	559.21	562.19	530.42	524.28
γ 15.0	539.93	536.35	474.16	475.35
γ 20.0	492.79	490.20	401.52	410.19
γ 25.0	421.06	414.32	303.27	317.99
γ 30.0	320.67	306.51	219.75	232.40
γ 35.0	231.88	218.50	146.33	155.62
γ 40.0	149.34	141.35	93.81	96.87
γ 45.0	92.59	85.08	40.03	42.53
γ 50.0	47.14	42.37	5.96	6.58
γ 55.0	8.76	8.61	3.04	2.85
γ 60.0	4.95	4.47	1.84	1.92
γ 65.0	2.74	2.64	0.82	1.18
γ 70.0	1.48	1.20	0.16	0.60
γ 75.0	0.55	0.76	0.01	0.08
γ 80.0	0.00	0.00	0.00	0.00
γ 85.0	0.00	0.00	0.00	0.00
γ 90.0	0.00	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	0.00	0.00
γ 135.0	0.00	0.00	0.00	0.00
γ 140.0	0.00	0.00	0.00	0.00
γ 145.0	0.00	0.00	0.00	0.07
γ 150.0	0.00	0.00	0.14	0.60
γ 155.0	0.00	0.17	0.34	0.63
γ 160.0	0.24	0.28	0.41	0.88
γ 165.0	0.56	0.23	0.68	1.13
γ 170.0	0.50	0.61	0.82	1.27
γ 175.0	0.79	0.99	1.18	1.35
γ 180.0	0.93	0.93	0.93	0.93
