

IES Indoor Report

Photometric Filename:DL39-09-XX-03 5000K RA80 40D 金色.IES

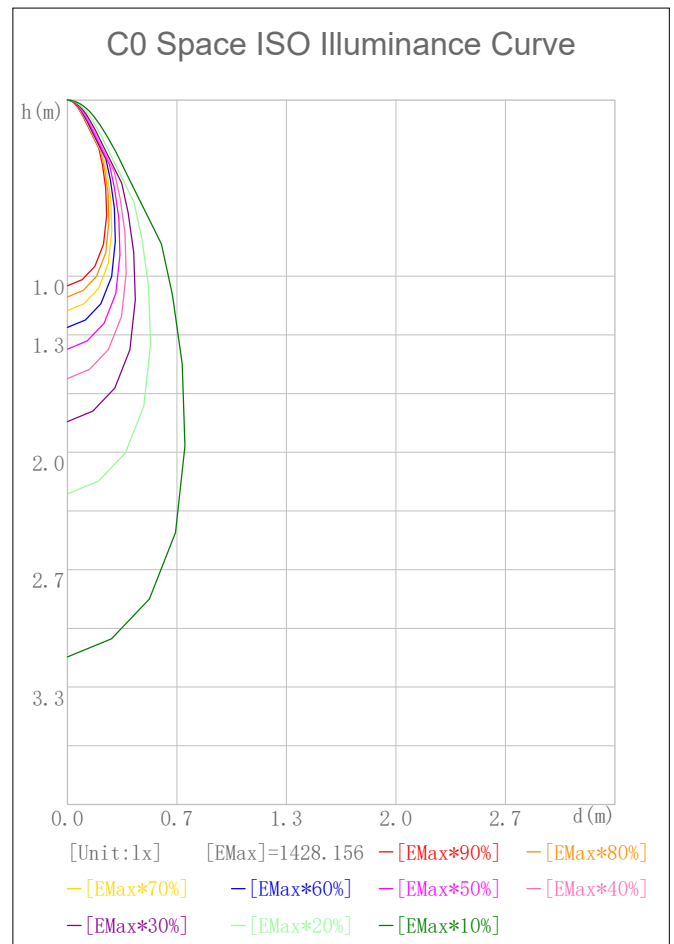
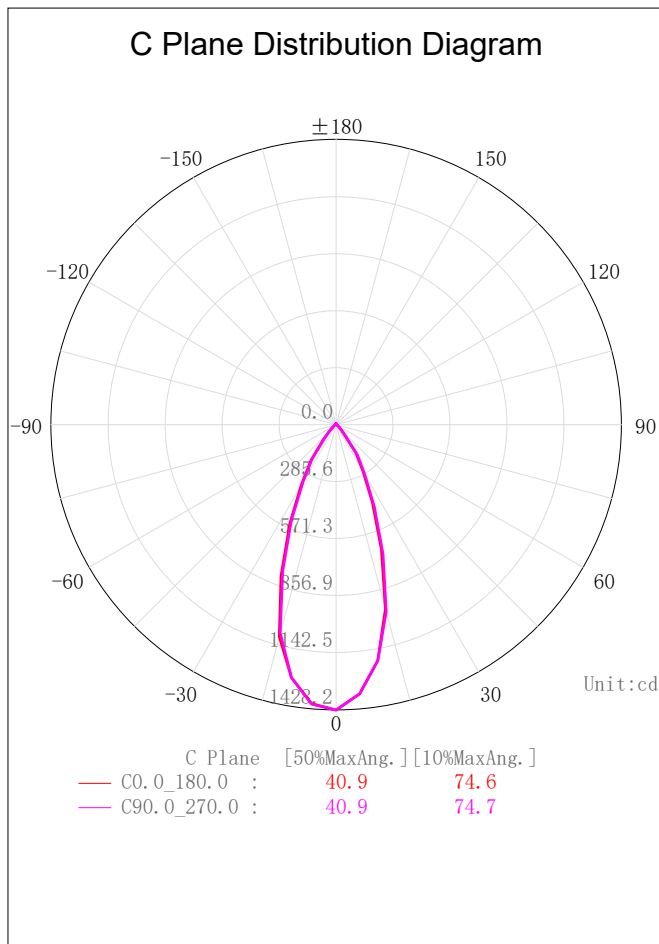
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Date: 2022/08/12
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):0.045m*0.045m*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): 829.160	Luminary Flux(lm): 829.157	Field Angle(10%Imax): 74.6(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 821.838lm 99.12%
Rated Voltage(V):	Luminary EER(lm/W): 91.863	Up Lumens&Percent: 7.319lm 0.88%
Tested Power(W): 9.026	Max. Candela(cd): 1428.156	S/MH: C0_a180=0.663 C90_270=0.662
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electrics (V, A, pf):240.2, 0.040, 0.922	Beam Angle(50%Imax): 40.9(°)	ErP φ use(90°): 784.076lm
Lamp Size (W*L*H):0.045m*0.045m*0.000m	Left=-21.8°, Right=19.1°	IRF(%): 390.523



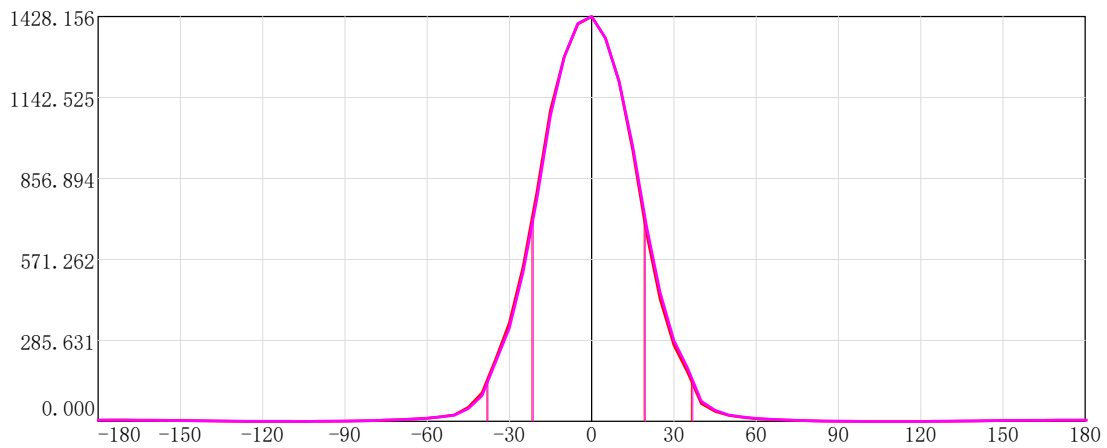
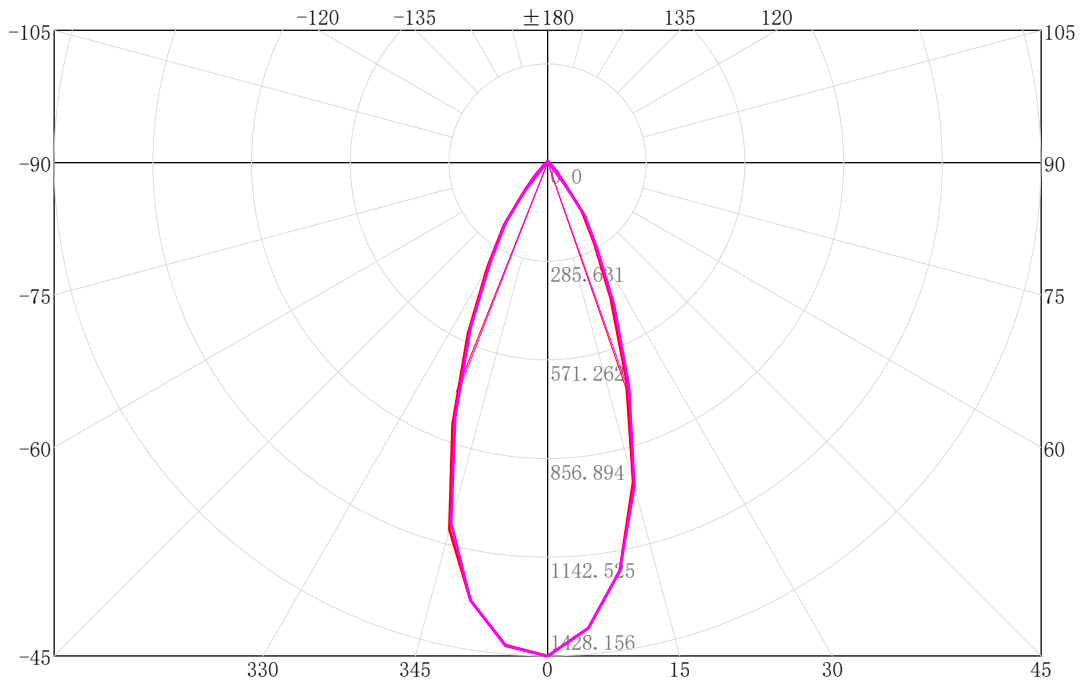
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2D Plane Light Intensity Distribution Curve

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
— C0.0_180.0 :	40.9	74.6
— C90.0_270.0 :	40.9	74.7

Unit:cd

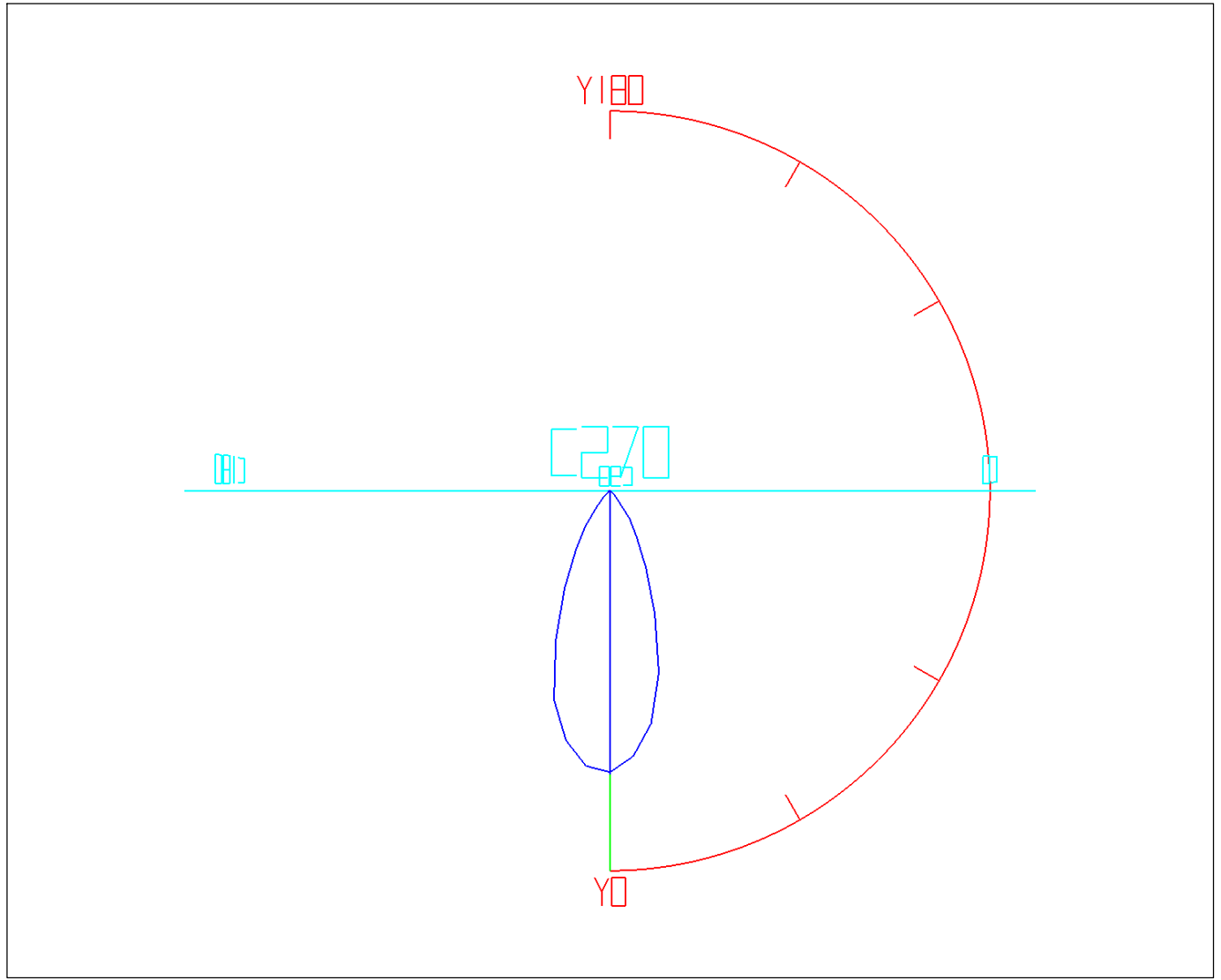
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3D Light Intensity Distribution Modal

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

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	33.54	33.54	4.05	4.05
5.0-10.0	93.74	127.29	11.31	15.35
10.0-15.0	134.60	261.88	16.23	31.58
15.0-20.0	145.11	406.99	17.50	49.08
20.0-25.0	128.42	535.42	15.49	64.57
25.0-30.0	100.94	636.35	12.17	76.75
30.0-35.0	74.37	710.72	8.97	85.72
35.0-40.0	46.47	757.19	5.60	91.32
40.0-45.0	22.93	780.12	2.76	94.09
45.0-50.0	13.08	793.20	1.58	95.66
50.0-55.0	8.26	801.46	1.00	96.66
55.0-60.0	6.13	807.60	0.74	97.40
60.0-65.0	4.55	812.15	0.55	97.95
65.0-70.0	3.46	815.61	0.42	98.37
70.0-75.0	2.60	818.20	0.31	98.68
75.0-80.0	1.81	820.01	0.22	98.90
80.0-85.0	1.14	821.16	0.14	99.03
85.0-90.0	0.68	821.84	0.08	99.12
90.0-95.0	0.38	822.22	0.05	99.16
95.0-100.0	0.23	822.44	0.03	99.19
100.0-105.0	0.11	822.56	0.01	99.20
105.0-110.0	0.05	822.61	0.01	99.21
110.0-115.0	0.07	822.68	0.01	99.22
115.0-120.0	0.09	822.77	0.01	99.23
120.0-125.0	0.16	822.93	0.02	99.25
125.0-130.0	0.29	823.22	0.04	99.28
130.0-135.0	0.46	823.69	0.06	99.34
135.0-140.0	0.61	824.30	0.07	99.41
140.0-145.0	0.74	825.04	0.09	99.50
145.0-150.0	0.84	825.88	0.10	99.60
150.0-155.0	0.86	826.73	0.10	99.71
155.0-160.0	0.79	827.52	0.10	99.80
160.0-165.0	0.67	828.20	0.08	99.88
165.0-170.0	0.51	828.71	0.06	99.95
170.0-175.0	0.33	829.04	0.04	99.99
175.0-180.0	0.11	829.16	0.01	100.00

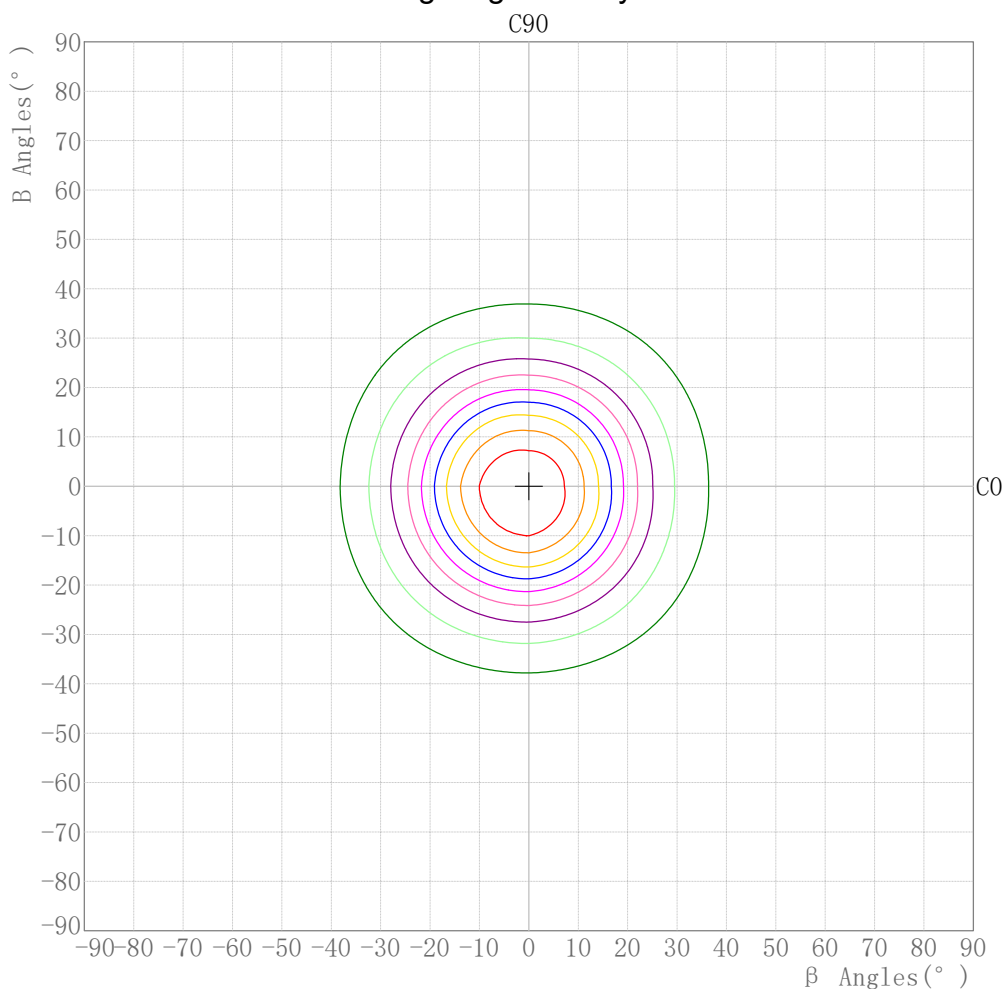
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 1428.16

Maximum Cand.@Angle: H=0.0°,V=0.0°

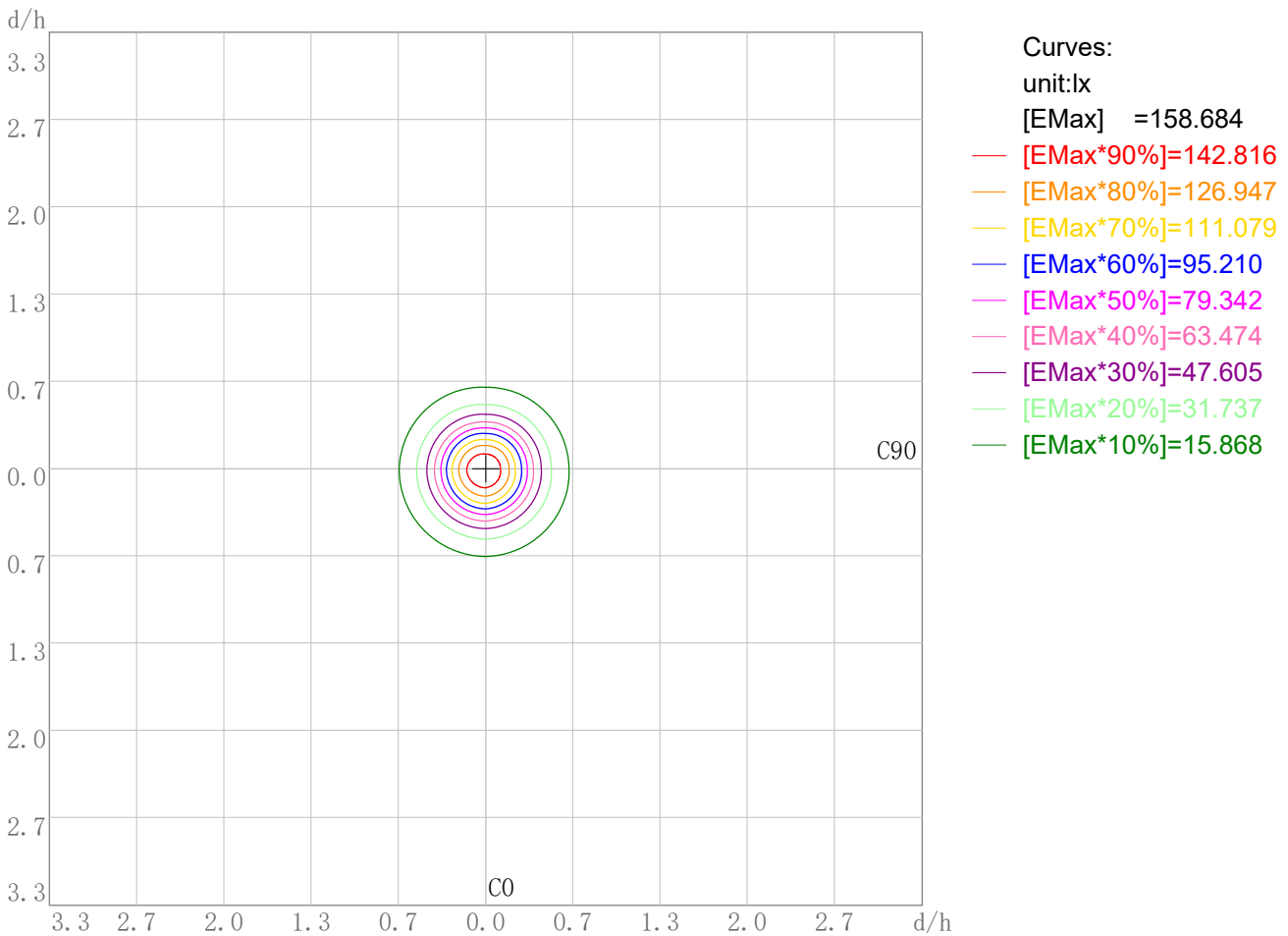
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Plane ISO-Illuminance Diagram

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

Plane ISO-Illuminance Curve



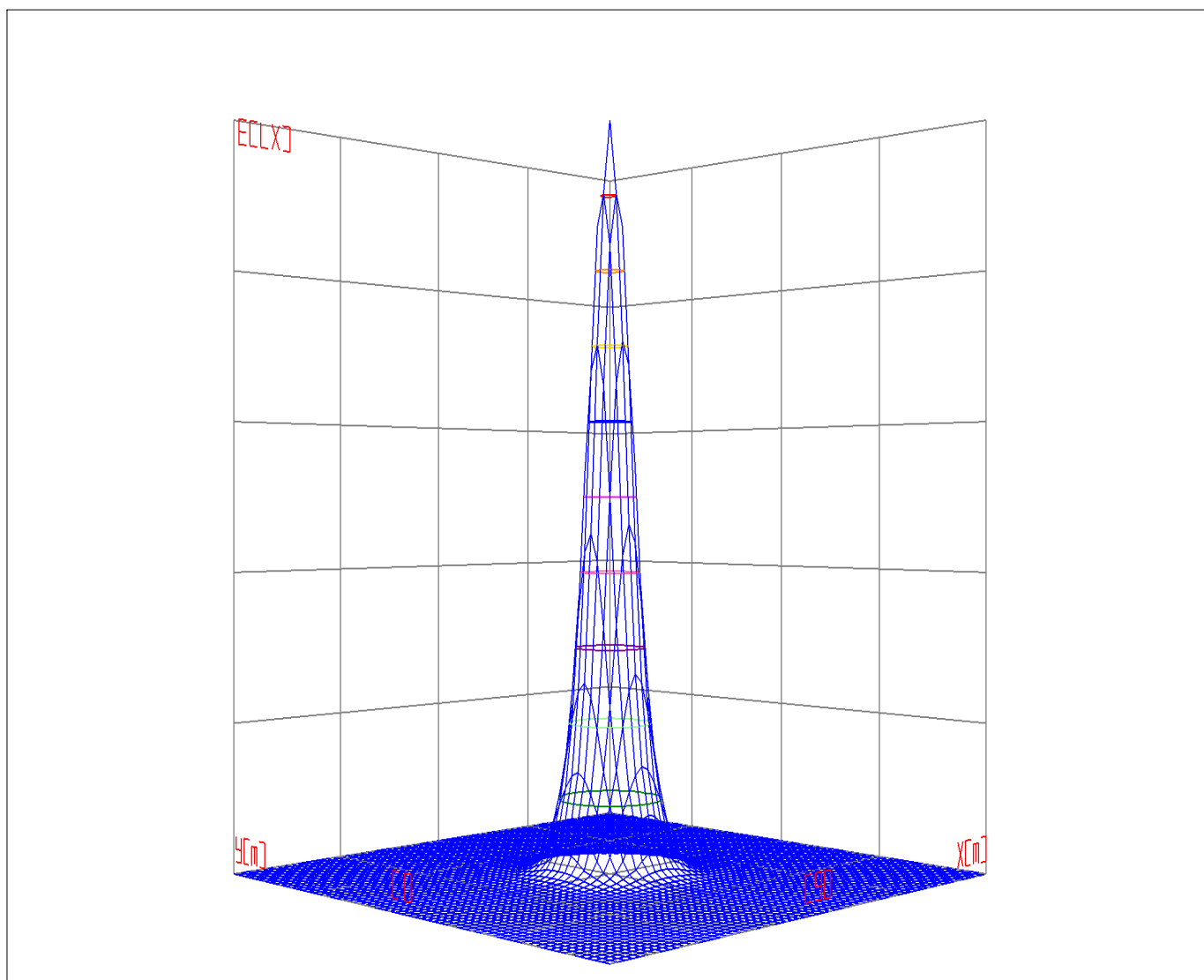
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3D Plane ISO Illuminance Diagram

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

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

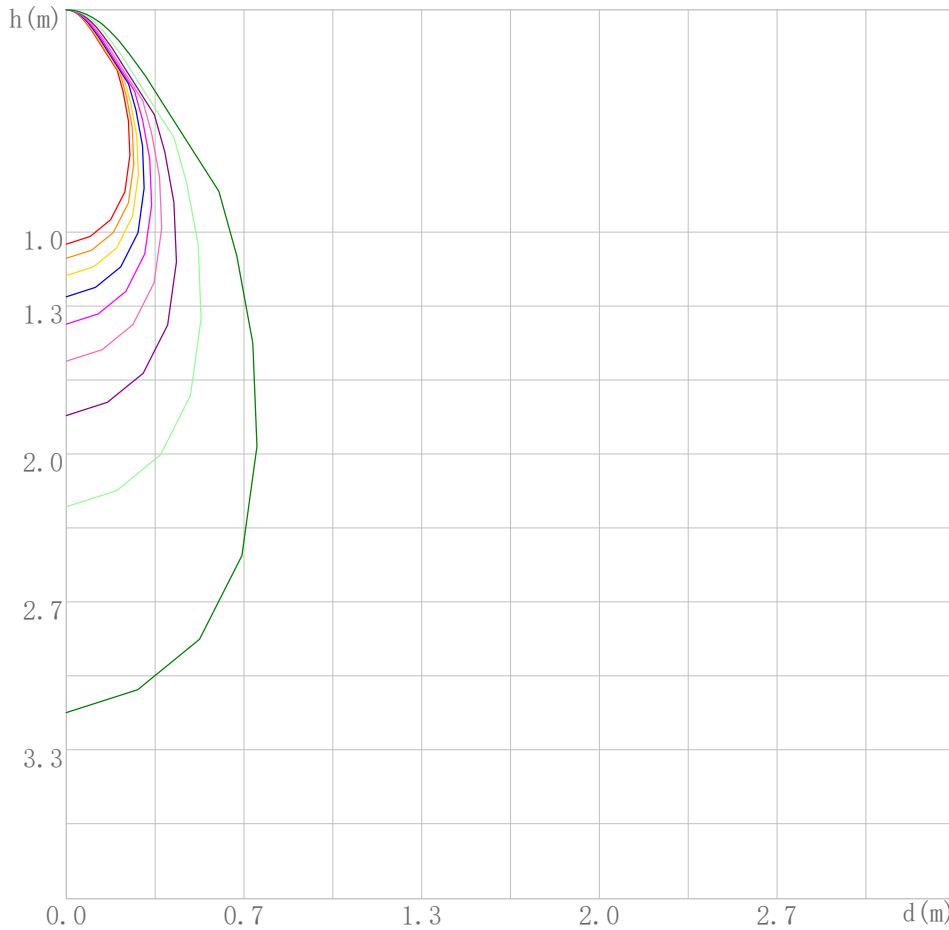
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Space ISO Illuminance Diagram

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	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: 2022/08/12

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =1428.156

— [EMax*90%]=1285.340

— [EMax*80%]=1142.525

— [EMax*70%]=999.709

— [EMax*60%]=856.894

— [EMax*50%]=714.078

— [EMax*40%]=571.262

— [EMax*30%]=428.447

— [EMax*20%]=285.631

— [EMax*10%]=142.816

Space Plane Maximum Illuminance and @Angle:1428.16lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1428.156cd,0deg

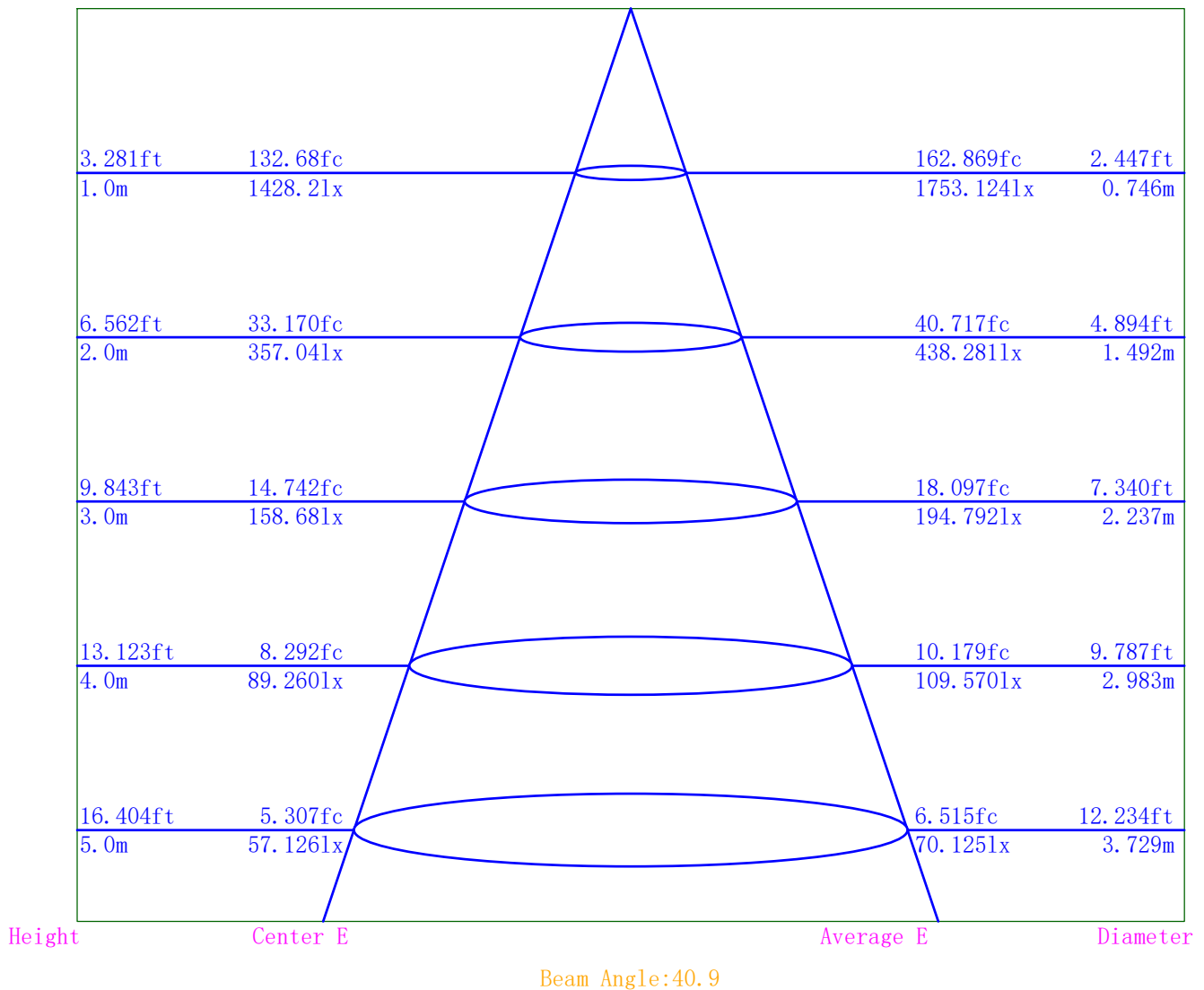
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Illuminance-Distance Diagram

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

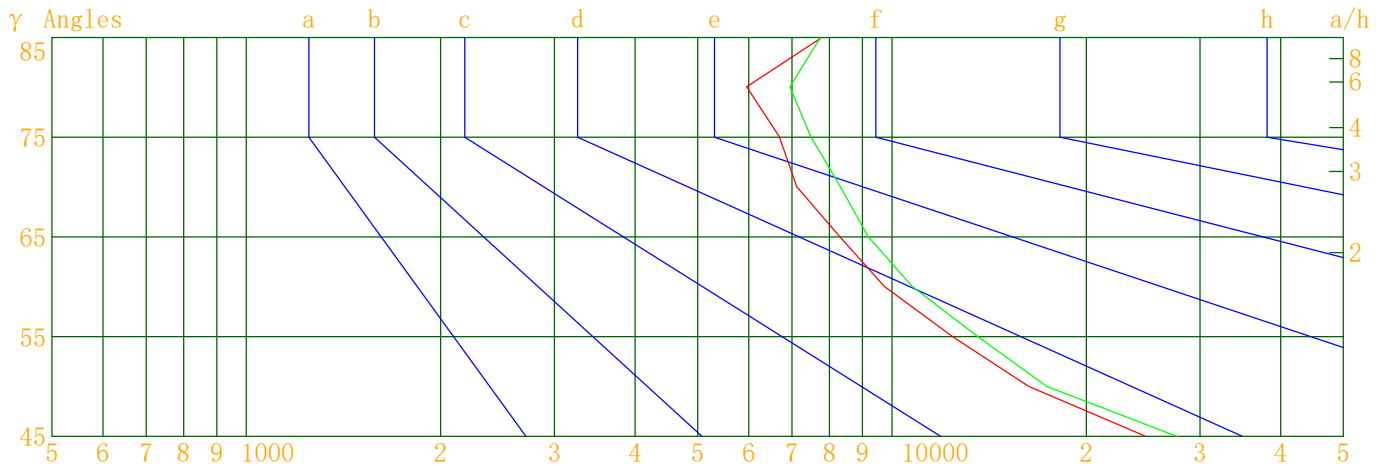
Glare Grade Table

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	24712	16286	12402	9737	8300	7121	6693	5955	7785
C90	27619	17374	13573	10754	9188	8315	7487	6950	7751

Luminance Limiting Curve



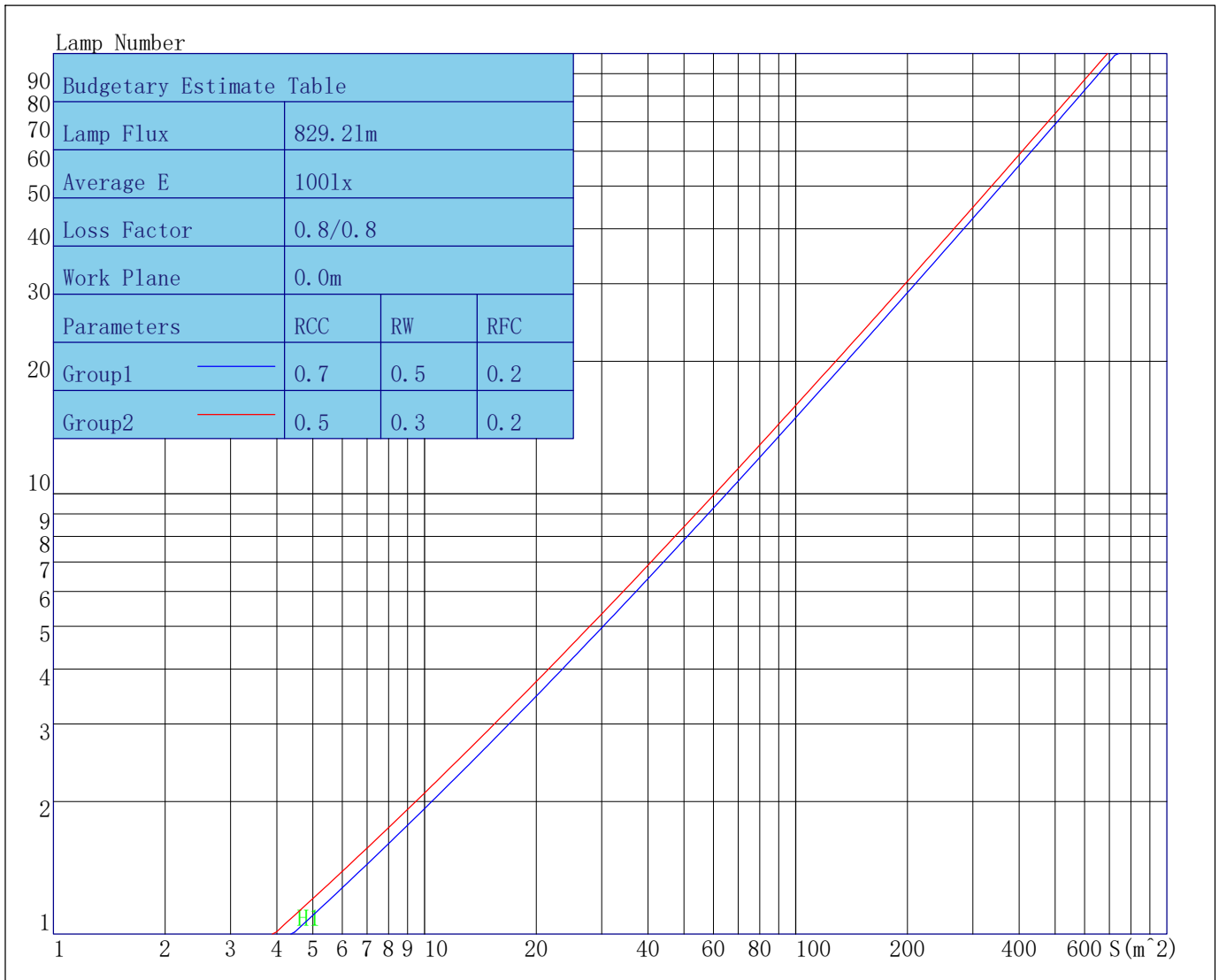
Luminous Size: Length(m)=0.045 Width(m)=0.045 Height(m)=0.000 Area(m²)=0.002025
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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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-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

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

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Unified Glare Rating Table

Lum. Name: DL39-09-XX-03 5000K RA80 40D 金色	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/12

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	19.0	20.0	19.4	20.3	20.6	19.4	20.4	19.8	20.7	21.1
Y=3H	19.0	19.9	19.4	20.2	20.6	19.5	20.3	19.9	20.7	21.1
Y=4H	19.1	19.8	19.5	20.2	20.6	19.5	20.3	19.9	20.7	21.1
Y=6H	19.1	19.8	19.5	20.2	20.6	19.5	20.2	20.0	20.6	21.1
Y=8H	19.1	19.7	19.5	20.1	20.6	19.5	20.2	20.0	20.6	21.0
Y=12H	19.0	19.7	19.5	20.1	20.5	19.5	20.1	20.0	20.6	21.0
X=4H Y=2H	18.9	19.7	19.3	20.0	20.4	19.3	20.1	19.7	20.4	20.8
Y=3H	19.0	19.6	19.4	20.1	20.5	19.4	20.1	19.9	20.5	20.9
Y=4H	19.1	19.6	19.5	20.1	20.5	19.5	20.1	20.0	20.5	21.0
Y=6H	19.1	19.6	19.6	20.1	20.6	19.6	20.1	20.1	20.5	21.0
Y=8H	19.1	19.6	19.6	20.1	20.5	19.6	20.0	20.1	20.5	21.0
Y=12H	19.2	19.5	19.7	20.1	20.6	19.6	20.0	20.1	20.5	21.0
X=8H Y=4H	19.0	19.5	19.5	19.9	20.4	19.4	19.9	19.9	20.3	20.8
Y=6H	19.1	19.5	19.6	20.0	20.5	19.6	19.9	20.1	20.4	21.0
Y=8H	19.2	19.5	19.7	20.0	20.5	19.6	19.9	20.2	20.5	21.0
Y=12H	19.3	19.5	19.8	20.1	20.7	19.7	20.0	20.2	20.5	21.1
X=12H Y=4H	19.0	19.3	19.5	19.8	20.3	19.4	19.8	19.9	20.3	20.8
Y=6H	19.1	19.4	19.6	19.9	20.5	19.5	19.8	20.1	20.3	20.9
Y=8H	19.2	19.5	19.7	20.0	20.6	19.6	19.9	20.2	20.4	21.0
Variations with the observer position at spacings										
S=1.0H	0.4/-0.4					0.4/-0.4				
S=1.5H	0.7/-0.8					0.8/-0.8				
S=2.0H	1.1/-1.1					1.0/-1.2				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.7					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	1428.16	1428.16	1428.16	1428.16
γ 5.0	1352.02	1352.62	1401.54	1403.97
γ 10.0	1199.79	1199.93	1286.39	1285.81
γ 15.0	955.99	970.41	1098.53	1079.13
γ 20.0	664.17	687.93	804.98	781.90
γ 25.0	431.15	454.52	546.03	527.16
γ 30.0	269.40	285.27	347.24	329.58
γ 35.0	173.40	187.32	218.55	209.35
γ 40.0	63.43	71.15	100.31	90.63
γ 45.0	35.38	39.55	49.74	45.09
γ 50.0	21.20	22.61	23.10	22.28
γ 55.0	14.40	15.77	16.31	16.35
γ 60.0	9.86	10.89	11.32	11.25
γ 65.0	7.10	7.86	8.23	8.38
γ 70.0	4.93	5.76	6.18	6.18
γ 75.0	3.51	3.92	4.35	4.92
γ 80.0	2.09	2.44	2.87	2.94
γ 85.0	1.37	1.37	1.55	2.18
γ 90.0	0.63	0.88	1.07	0.91
γ 95.0	0.34	0.38	0.46	0.86
γ 100.0	0.28	0.15	0.50	0.37
γ 105.0	0.26	0.08	0.00	0.05
γ 110.0	0.00	0.00	0.00	0.43
γ 115.0	0.00	0.07	0.10	0.44
γ 120.0	0.01	0.17	0.27	0.44
γ 125.0	0.42	0.70	0.22	0.60
γ 130.0	0.72	0.98	0.41	1.35
γ 135.0	1.29	1.68	1.28	1.42
γ 140.0	1.90	1.92	2.03	1.72
γ 145.0	2.38	2.97	2.63	2.09
γ 150.0	3.18	3.65	3.37	2.64
γ 155.0	3.20	3.73	3.99	3.28
γ 160.0	3.87	3.78	4.40	3.89
γ 165.0	3.91	4.19	4.57	4.13
γ 170.0	4.24	4.26	5.02	4.40
γ 175.0	4.61	4.64	5.34	4.44
γ 180.0	4.77	4.77	4.77	4.77
