

IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

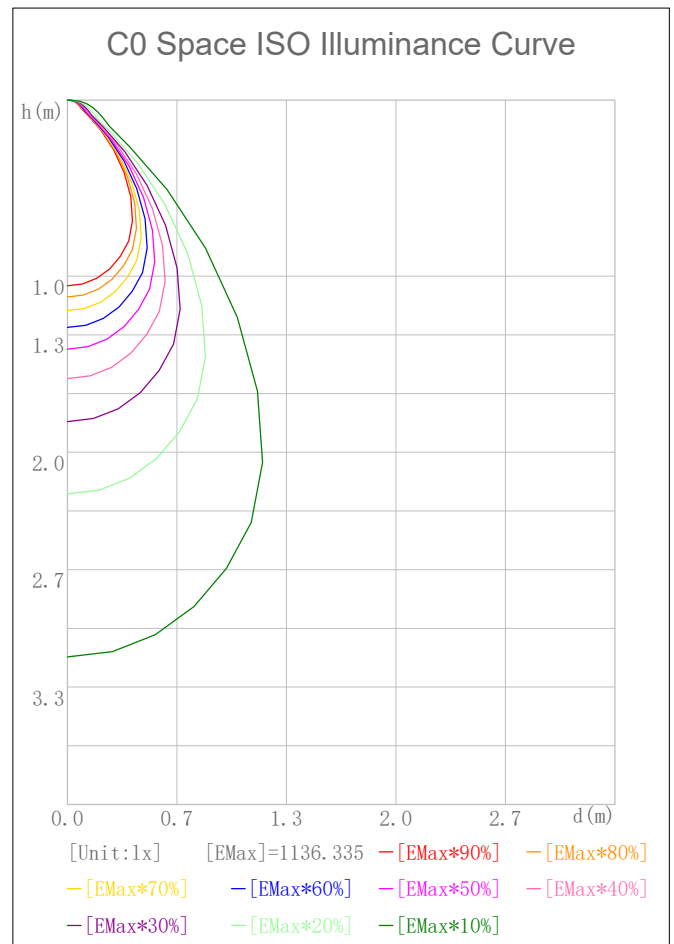
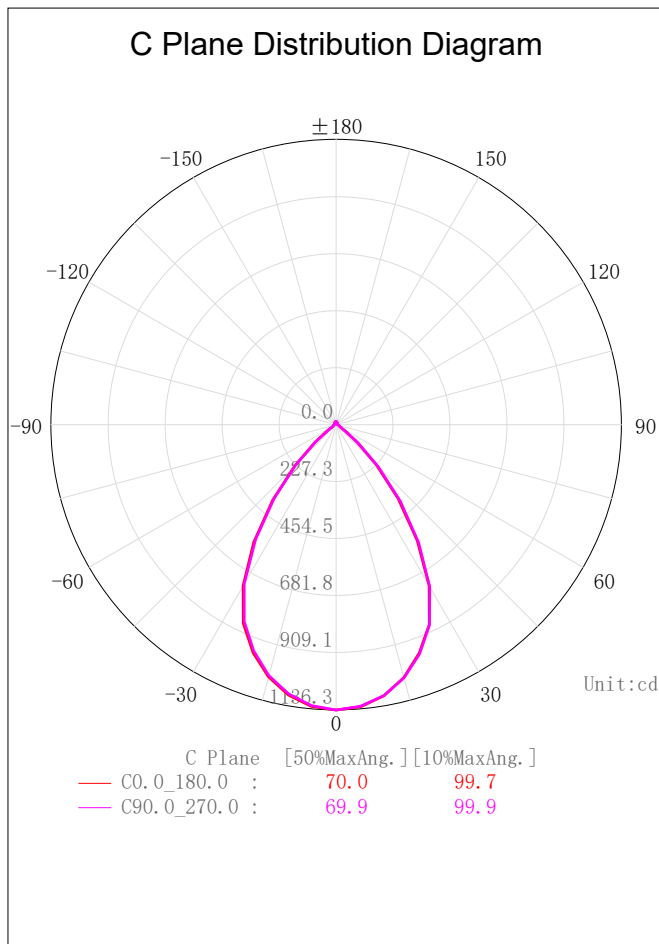
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: DL50-25-XX-02 2700K RA90		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/02
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): 1455.400	Luminaire Flux(lm): 1455.398	Field Angle(10%Imax): 99.7(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1411.708lm 97.00%	
Rated Voltage(V):	Luminaire EER(lm/W): 59.844	Up Lumens&Percent: 43.689lm 3.00%	
Tested Power(W): 24.320	Max. Candela(cd): 1136.335	S/MH: C0_a180=1.039 C90_270=1.037	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.7, 0.104, 0.967	Beam Angle(50%Imax): 70.0(°)	ErP φ use(90°): 1264.925lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-35.1°, Right=34.9°	IRF(%): 177.839	



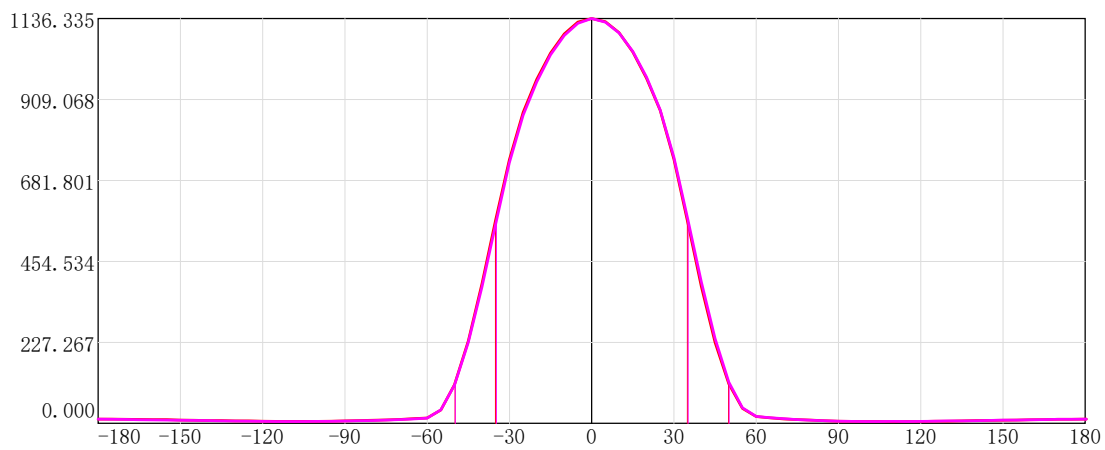
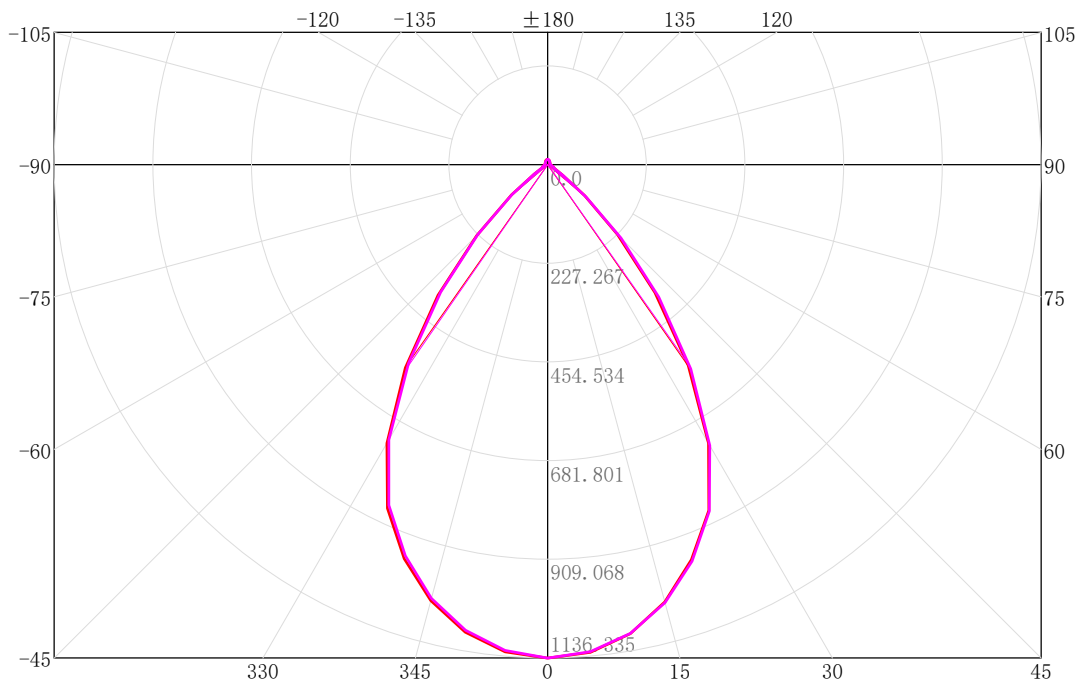
IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

2D Plane Light Intensity Distribution Curve

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
— C0.0_180.0 :	70.0	99.7
— C90.0_270.0 :	69.9	99.9

Unit:cd

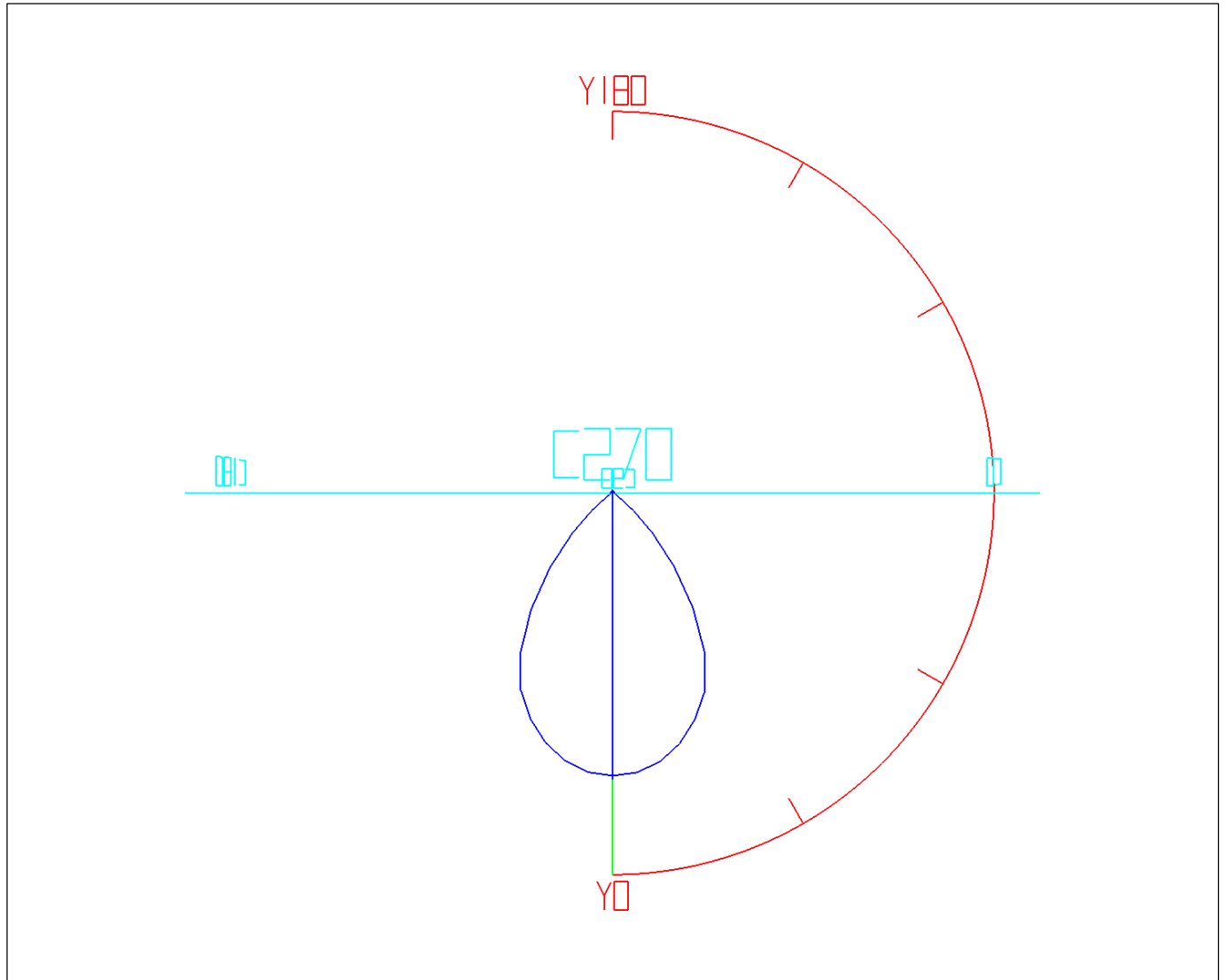
IES Indoor Report

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3D Light Intensity Distribution Modal

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

3D Light Intensity Distribution Modal



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

IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	27.04	27.04	1.86	1.86
5.0-10.0	79.39	106.43	5.46	7.31
10.0-15.0	126.58	233.01	8.70	16.01
15.0-20.0	165.35	398.36	11.36	27.37
20.0-25.0	193.04	591.40	13.26	40.63
25.0-30.0	204.29	795.69	14.04	54.67
30.0-35.0	192.46	988.15	13.22	67.90
35.0-40.0	159.59	1147.74	10.97	78.86
40.0-45.0	114.88	1262.61	7.89	86.75
45.0-50.0	69.03	1331.64	4.74	91.50
50.0-55.0	32.84	1364.48	2.26	93.75
55.0-60.0	13.36	1377.84	0.92	94.67
60.0-65.0	7.73	1385.57	0.53	95.20
65.0-70.0	6.71	1392.28	0.46	95.66
70.0-75.0	5.84	1398.12	0.40	96.06
75.0-80.0	5.13	1403.25	0.35	96.42
80.0-85.0	4.52	1407.77	0.31	96.73
85.0-90.0	3.94	1411.71	0.27	97.00
90.0-95.0	3.46	1415.17	0.24	97.24
95.0-100.0	3.18	1418.35	0.22	97.45
100.0-105.0	3.00	1421.35	0.21	97.66
105.0-110.0	2.90	1424.24	0.20	97.86
110.0-115.0	2.80	1427.05	0.19	98.05
115.0-120.0	2.77	1429.82	0.19	98.24
120.0-125.0	2.82	1432.64	0.19	98.44
125.0-130.0	2.88	1435.52	0.20	98.63
130.0-135.0	2.90	1438.42	0.20	98.83
135.0-140.0	2.86	1441.28	0.20	99.03
140.0-145.0	2.76	1444.04	0.19	99.22
145.0-150.0	2.62	1446.66	0.18	99.40
150.0-155.0	2.41	1449.07	0.17	99.57
155.0-160.0	2.11	1451.19	0.15	99.71
160.0-165.0	1.75	1452.94	0.12	99.83
165.0-170.0	1.33	1454.27	0.09	99.92
170.0-175.0	0.84	1455.11	0.06	99.98
175.0-180.0	0.29	1455.40	0.02	100.00

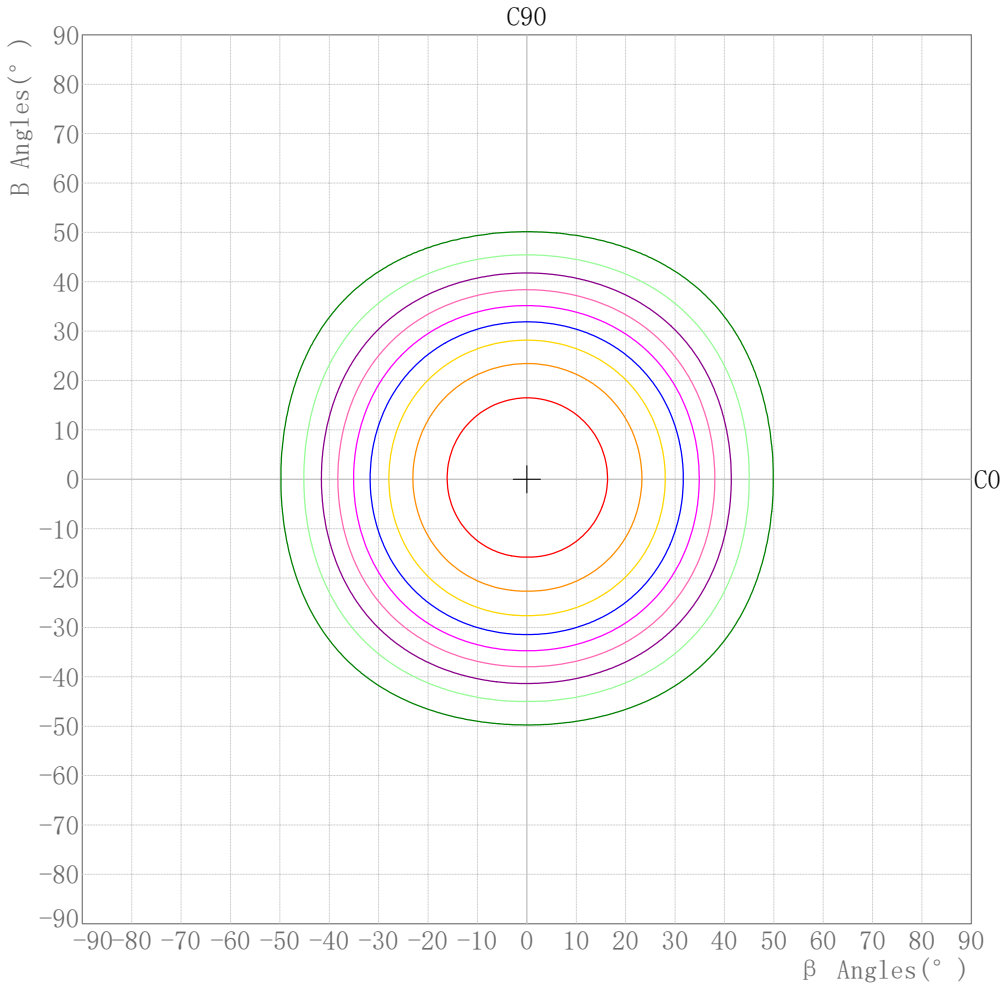
IES Indoor Report

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

ISO Lighting Intensity Curve



Curves:

[Unit: cd]

[IMax] =1136.335

— [IMax*90%]=1022.701

— [IMax*80%]=909.068

— [IMax*70%]=795.434

— [IMax*60%]=681.801

— [IMax*50%]=568.167

— [IMax*40%]=454.534

— [IMax*30%]=340.900

— [IMax*20%]=227.267

— [IMax*10%]=113.633

Maximum Light Intensity(cd): 1136.33

Maximum Cand.@Angle: H=0.0°,V=0.0°

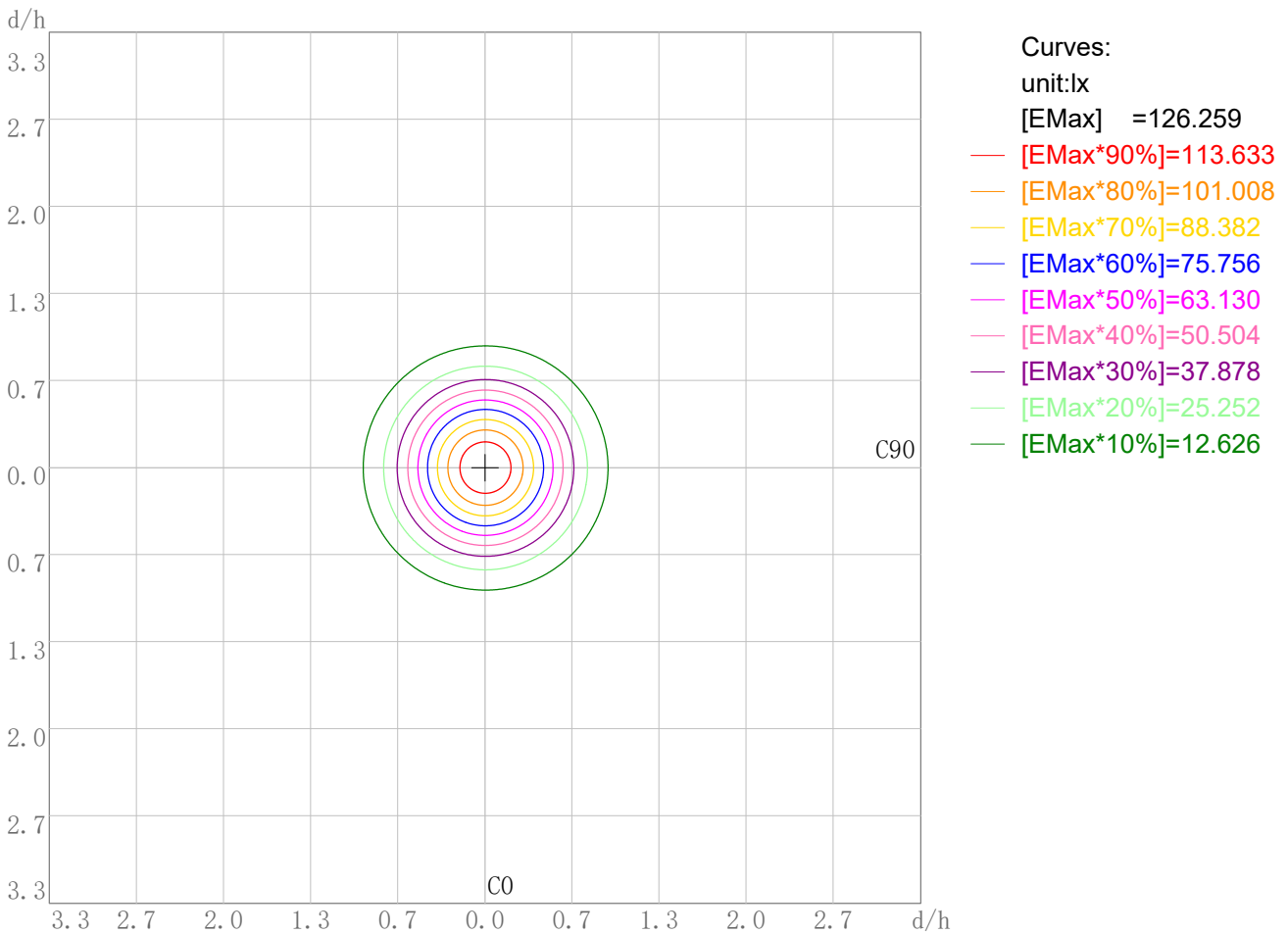
IES Indoor Report

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Plane ISO-Illuminance Diagram

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 126.26

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

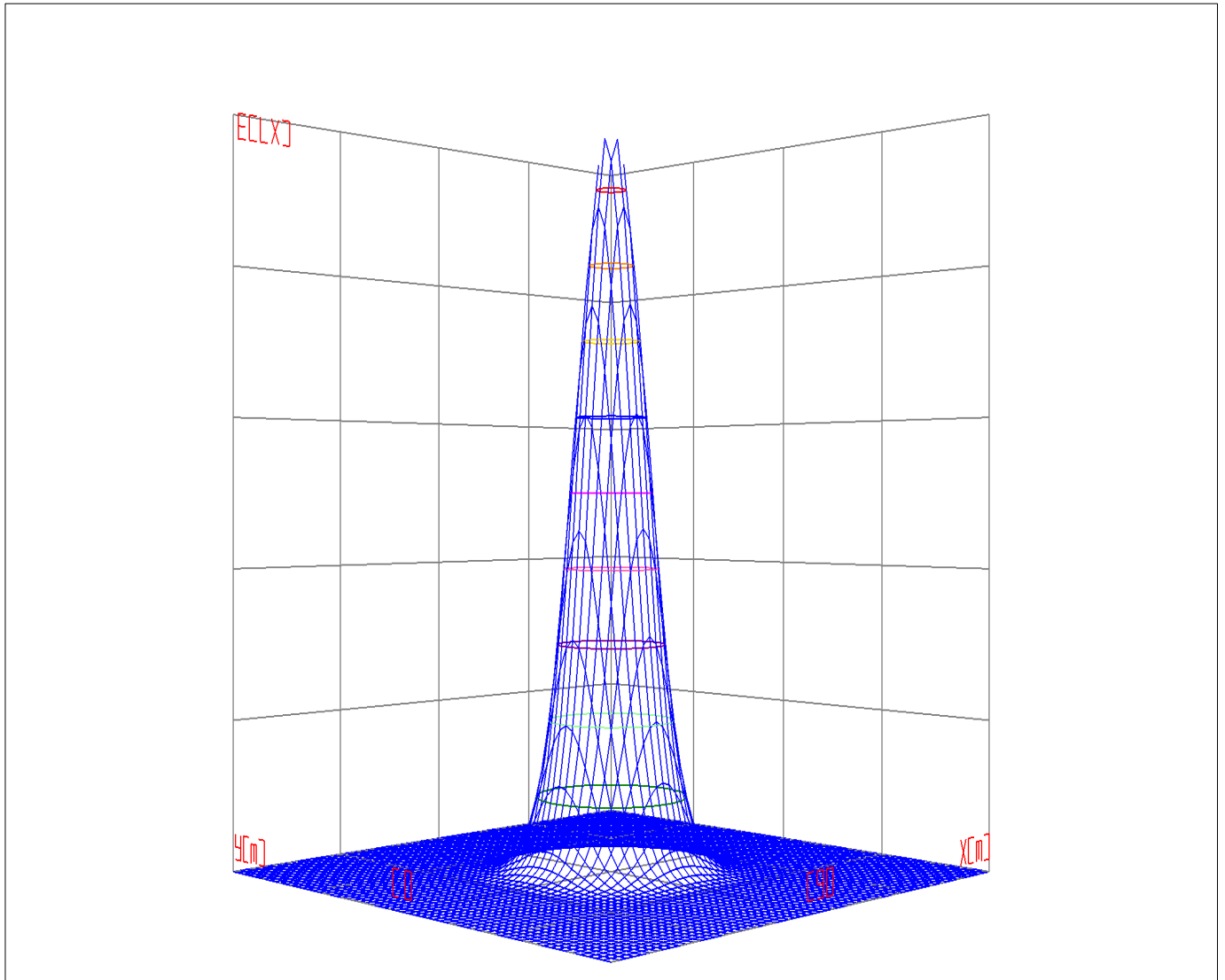
IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

3D Plane ISO Illuminance Diagram

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

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

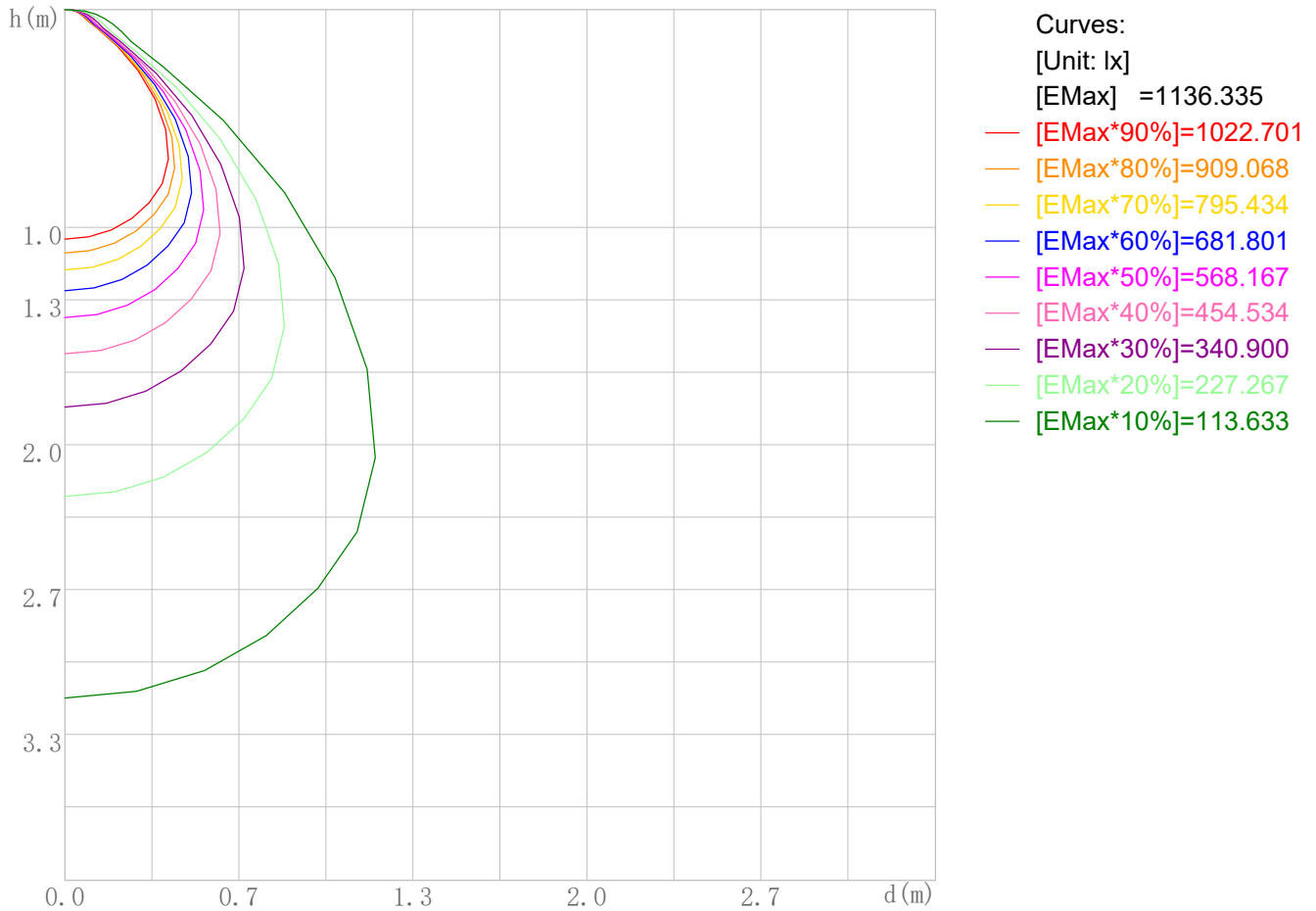
IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

Space ISO Illuminance Diagram

Lum. Name: DL50-25-XX-02 2700K RA90	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: 2022/08/02

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1136.33lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1136.335cd,0deg

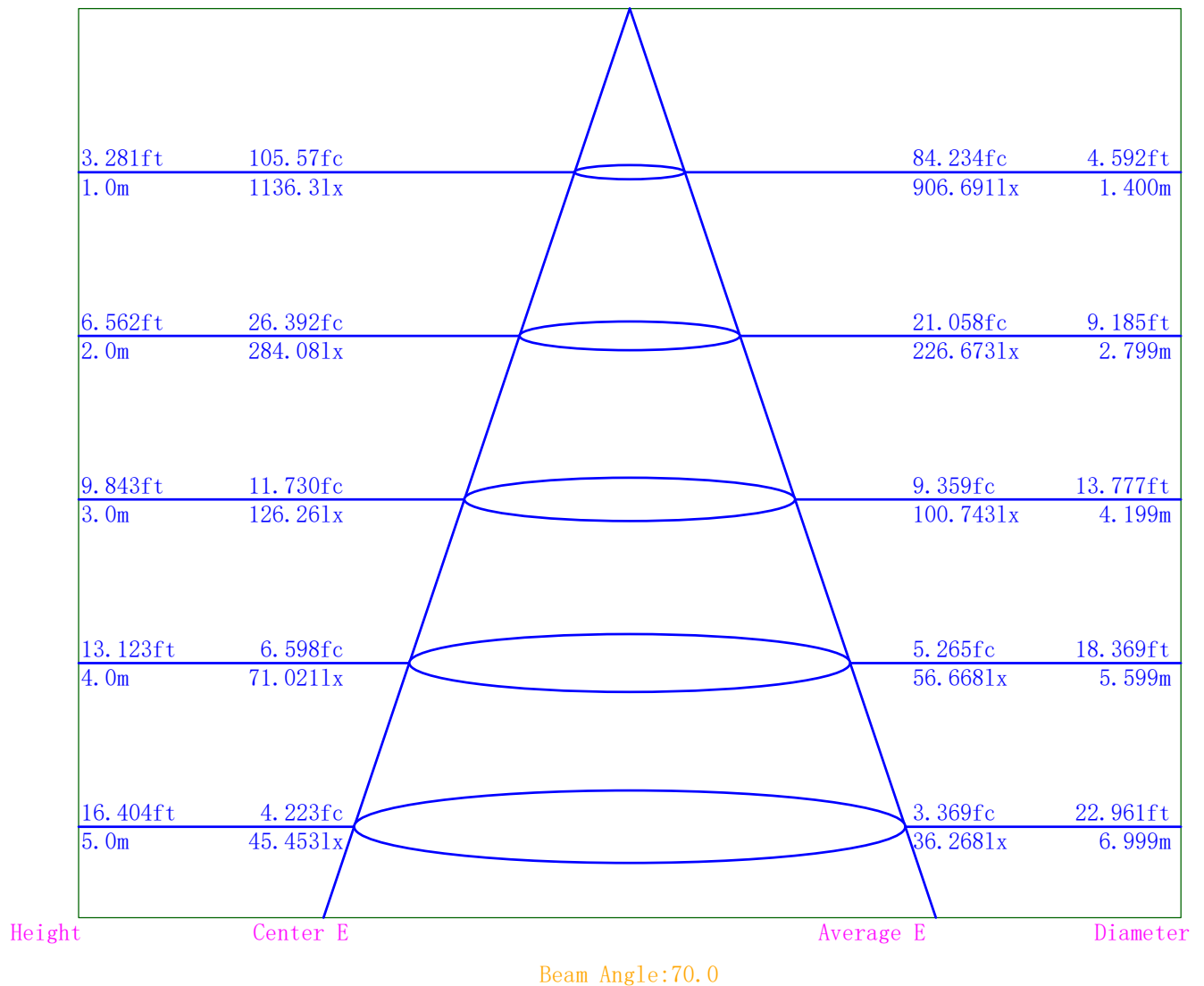
IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

Illuminance-Distance Diagram

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

Illuminance-Distance Curve



IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

Indoor Luminance Limiting Curves

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

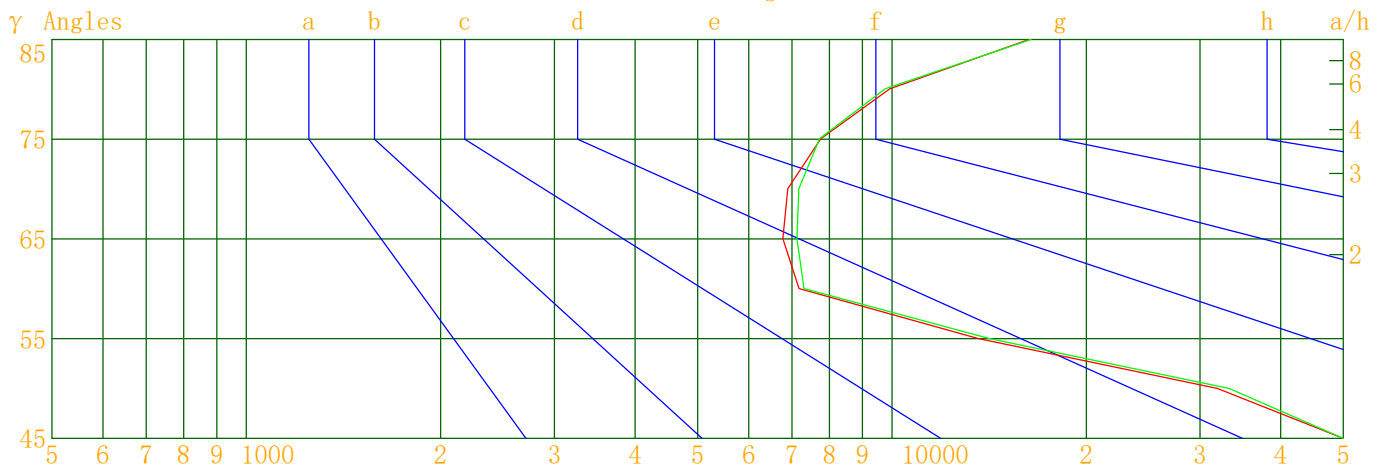
Glare Grade Table

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	59448	31900	13589	7178	6778	6897	7759	9922	16293
C90	62342	33264	14133	7307	7124	7176	7724	9757	16413

Luminance Limiting Curve



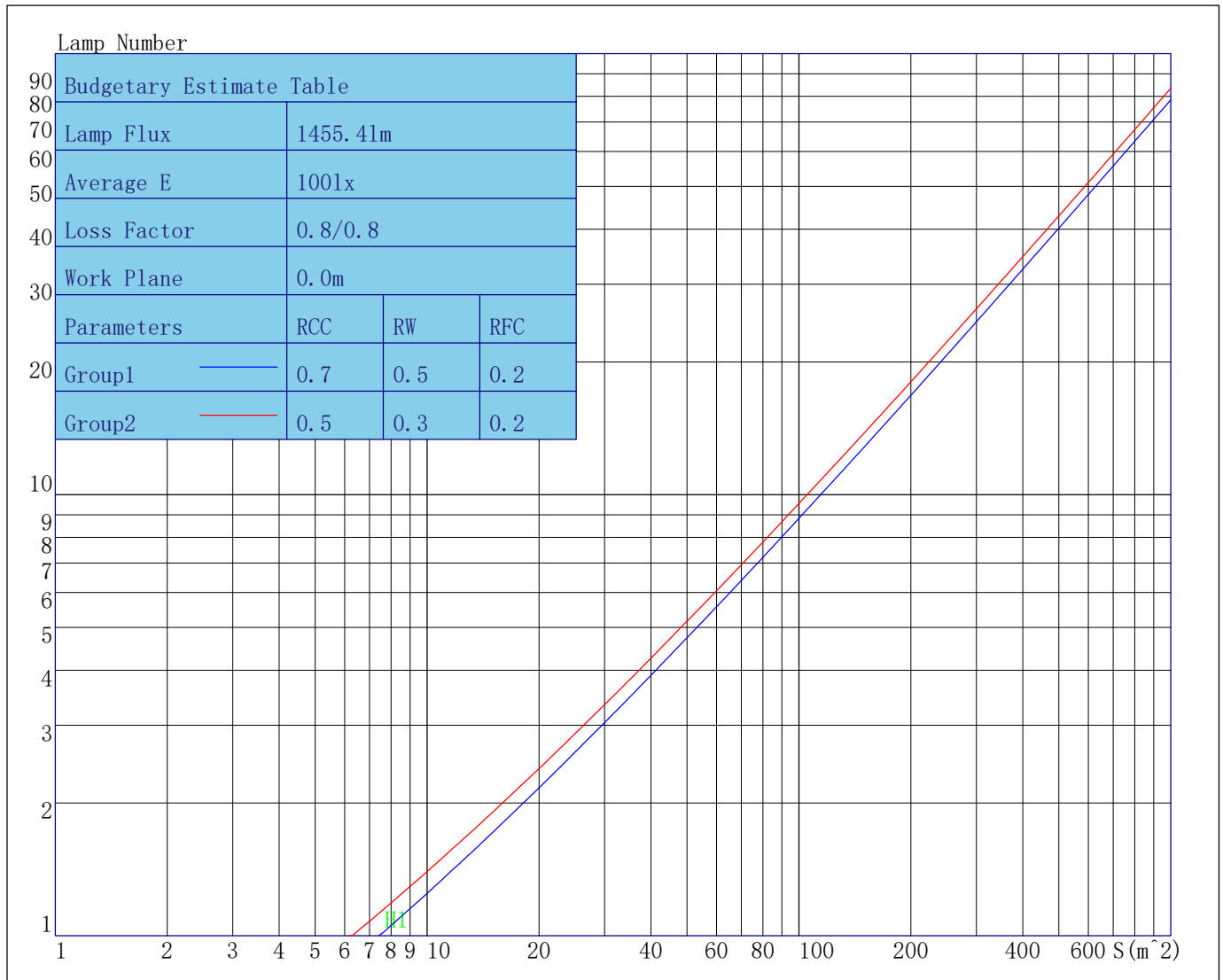
Luminous Size: Length(m)=-0.083 Width(m)=-0.083 Height(m)=0.000 Area(m^2)=0.005411
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
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Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02



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: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	112	109	106	103	109	106	103	101	101	99	97	97	96	94	93	92	91	89
2	105	100	95	91	103	98	93	90	94	90	87	90	88	85	87	85	83	81
3	99	92	86	81	97	90	85	80	87	82	79	84	80	77	81	78	76	74
4	93	84	78	73	91	83	77	73	80	75	71	78	74	70	76	72	69	67
5	88	78	71	67	86	77	71	66	75	69	65	73	68	64	71	67	63	62
6	82	72	66	61	81	71	65	60	69	64	60	68	63	59	66	62	58	57
7	78	67	60	56	76	66	60	55	65	59	55	63	58	54	62	57	54	52
8	73	63	56	51	72	62	56	51	60	55	51	59	54	50	58	53	50	48
9	69	58	52	47	68	58	52	47	57	51	47	55	50	47	54	50	46	45
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	51	47	43	42

IES Indoor Report

Photometric Filename:DL50-25-XX-02 2700K RA90.IES

Unified Glare Rating Table

Lum. Name: DL50-25-XX-02 2700K RA90	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/02

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	22.7	23.7	23.1	24.1	24.5	22.8	23.9	23.2	24.3	24.7
Y=3H	22.6	23.5	23.0	23.9	24.4	22.7	23.7	23.2	24.1	24.5
Y=4H	22.6	23.4	23.0	23.8	24.3	22.7	23.6	23.2	24.0	24.5
Y=6H	22.6	23.4	23.0	23.8	24.3	22.7	23.5	23.2	23.9	24.4
Y=8H	22.6	23.3	23.1	23.8	24.3	22.7	23.5	23.2	23.9	24.4
Y=12H	22.6	23.4	23.1	23.8	24.3	22.8	23.5	23.3	23.9	24.4
X=4H Y=2H	22.4	23.3	22.9	23.7	24.2	22.6	23.5	23.1	23.9	24.3
Y=3H	22.4	23.1	22.9	23.6	24.1	22.5	23.3	23.0	23.7	24.2
Y=4H	22.4	23.0	22.9	23.5	24.0	22.5	23.2	23.0	23.7	24.2
Y=6H	22.5	23.0	23.0	23.5	24.1	22.6	23.2	23.1	23.7	24.2
Y=8H	22.6	23.1	23.1	23.6	24.1	22.7	23.2	23.2	23.7	24.3
Y=12H	22.7	23.1	23.2	23.7	24.2	22.8	23.3	23.4	23.8	24.4
X=8H Y=4H	22.3	22.8	22.8	23.3	23.9	22.5	23.0	23.0	23.5	24.0
Y=6H	22.5	22.9	23.0	23.4	24.0	22.6	23.0	23.2	23.6	24.2
Y=8H	22.6	23.0	23.2	23.5	24.1	22.7	23.1	23.3	23.7	24.2
Y=12H	22.9	23.2	23.4	23.7	24.4	23.0	23.3	23.5	23.8	24.5
X=12H Y=4H	22.3	22.7	22.8	23.3	23.8	22.4	22.9	23.0	23.4	23.9
Y=6H	22.4	22.8	23.0	23.3	24.0	22.6	23.0	23.2	23.5	24.1
Y=8H	22.6	23.0	23.2	23.5	24.2	22.8	23.1	23.3	23.6	24.3
Variations with the observer position at spacings										
S=1.0H	0.1/-0.1					0.1/-0.1				
S=1.5H	0.2/-0.2					0.2/-0.2				
S=2.0H	0.2/-0.2					0.2/-0.2				
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	1136.33	1136.33	1136.33	1136.33
γ 5.0	1127.34	1125.94	1126.31	1122.93
γ 10.0	1096.59	1096.07	1093.27	1088.87
γ 15.0	1042.59	1044.38	1039.41	1034.22
γ 20.0	968.21	972.02	965.86	958.52
γ 25.0	878.44	880.52	873.31	865.25
γ 30.0	740.99	746.82	740.33	731.50
γ 35.0	564.42	574.34	571.00	558.49
γ 40.0	384.28	397.79	392.54	383.23
γ 45.0	227.44	238.51	230.88	227.01
γ 50.0	110.94	115.69	108.62	107.31
γ 55.0	42.17	43.86	37.62	37.99
γ 60.0	19.42	19.77	15.39	14.95
γ 65.0	15.50	16.29	13.31	12.62
γ 70.0	12.76	13.28	11.30	10.90
γ 75.0	10.87	10.82	9.88	9.58
γ 80.0	9.32	9.17	8.76	8.24
γ 85.0	7.68	7.74	7.89	7.75
γ 90.0	6.29	6.47	7.06	6.63
γ 95.0	5.82	5.91	6.51	5.90
γ 100.0	5.61	5.49	5.91	5.62
γ 105.0	5.59	5.25	5.89	5.47
γ 110.0	5.16	5.69	5.77	5.52
γ 115.0	5.47	5.37	5.90	5.41
γ 120.0	5.61	5.80	6.27	5.79
γ 125.0	6.11	6.18	6.98	6.12
γ 130.0	6.45	7.14	7.27	6.65
γ 135.0	7.29	7.40	8.03	7.20
γ 140.0	7.92	7.84	8.26	7.92
γ 145.0	8.42	8.31	9.08	8.34
γ 150.0	9.15	9.28	9.43	9.18
γ 155.0	9.64	9.48	10.60	9.51
γ 160.0	10.31	10.34	10.90	9.87
γ 165.0	10.91	10.94	11.18	10.51
γ 170.0	11.61	11.47	11.81	11.32
γ 175.0	11.82	11.88	12.17	11.64
γ 180.0	12.31	12.31	12.31	12.31
