

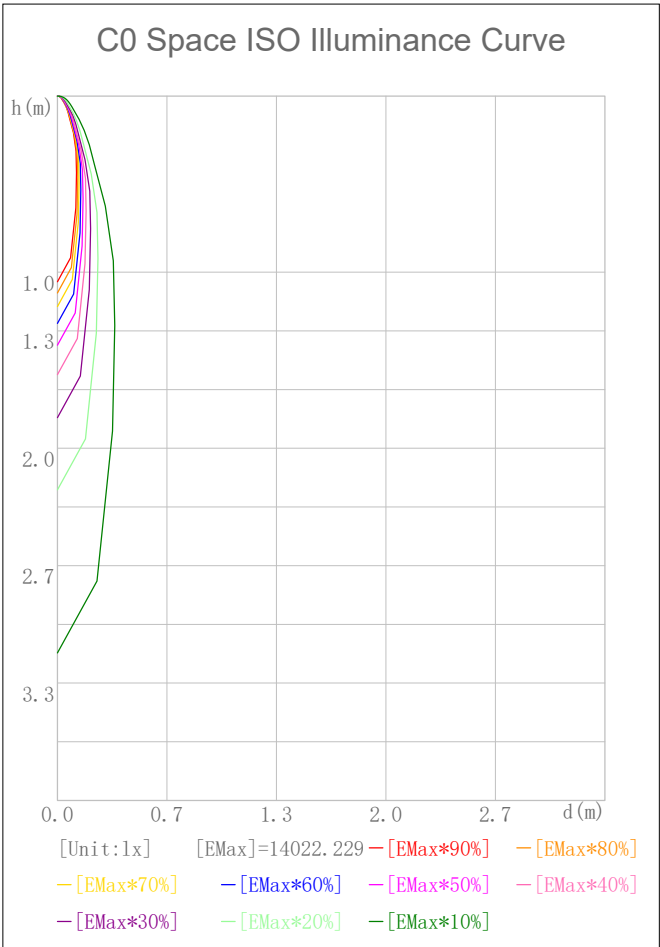
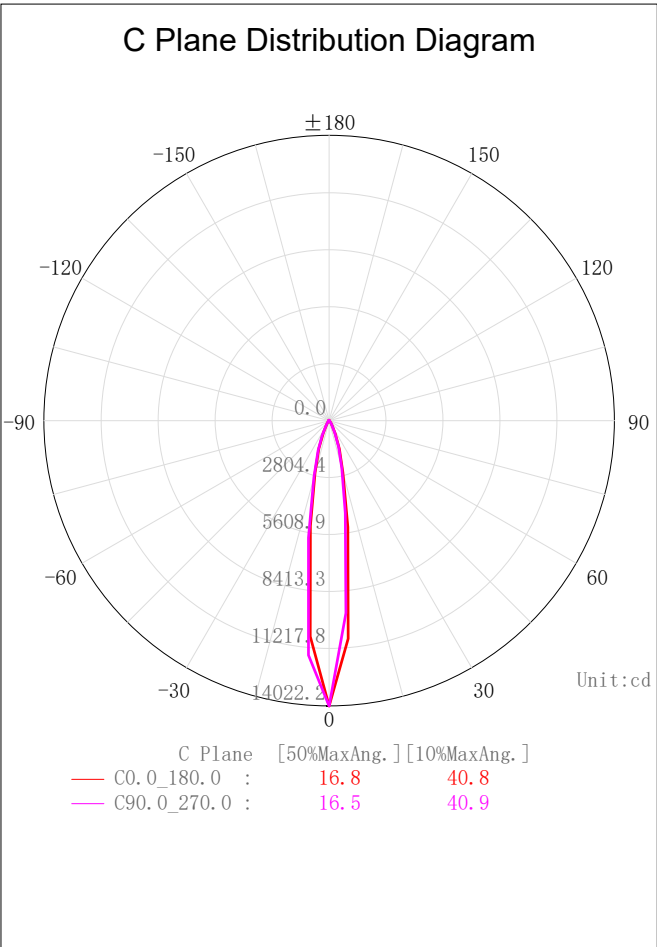
Indoor Luminaire Photometric Data

Description Information

Luminary Name: DL51-25-XX-01 3000K RA90 15D 金色		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/08/08
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

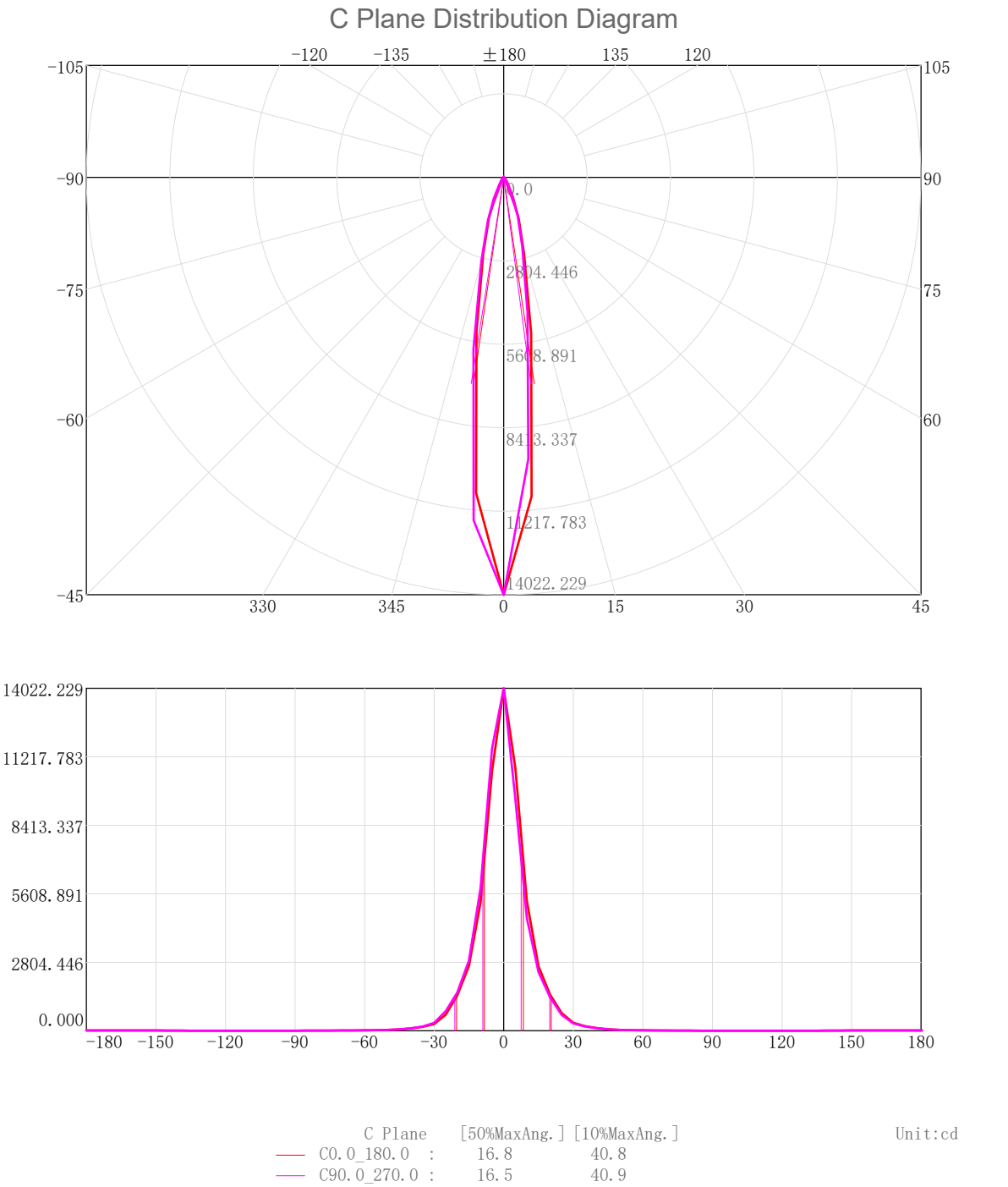
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2316.140	Luminary Flux(lm): 2316.141	Field Angle(10%Imax): 40.8(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2265.213lm 97.80%	
Rated Voltage(V):	Luminary EER(lm/W): 96.265	Up Lumens&Percent: 50.928lm 2.20%	
Tested Power(W): 24.060	Max. Candela(cd): 14022.229	S/MH: C0_a180=0.289 C90_270=0.284	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):240.1, 0.103, 0.966	Beam Angle(50%Imax): 16.8(°)	ErP Φ use(90°): 2143.428lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-8.4°, Right=8.4°	IRF(%): 1261.464	



2D Plane Light Intensity Distribution Curve

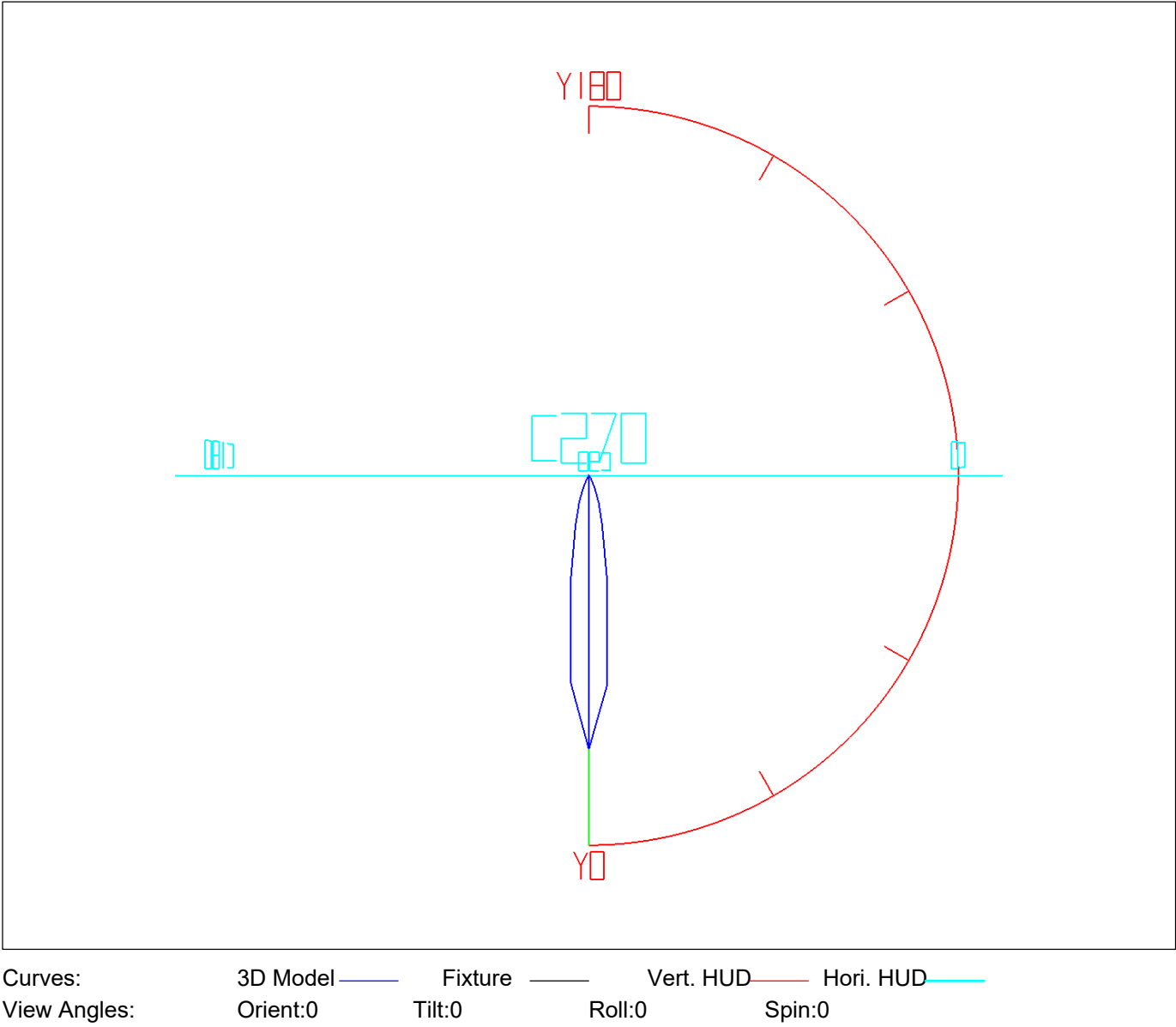
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Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08



3D Light Intensity Distribution Modal

Lum. Name:DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08

3D Light Intensity Distribution Modal

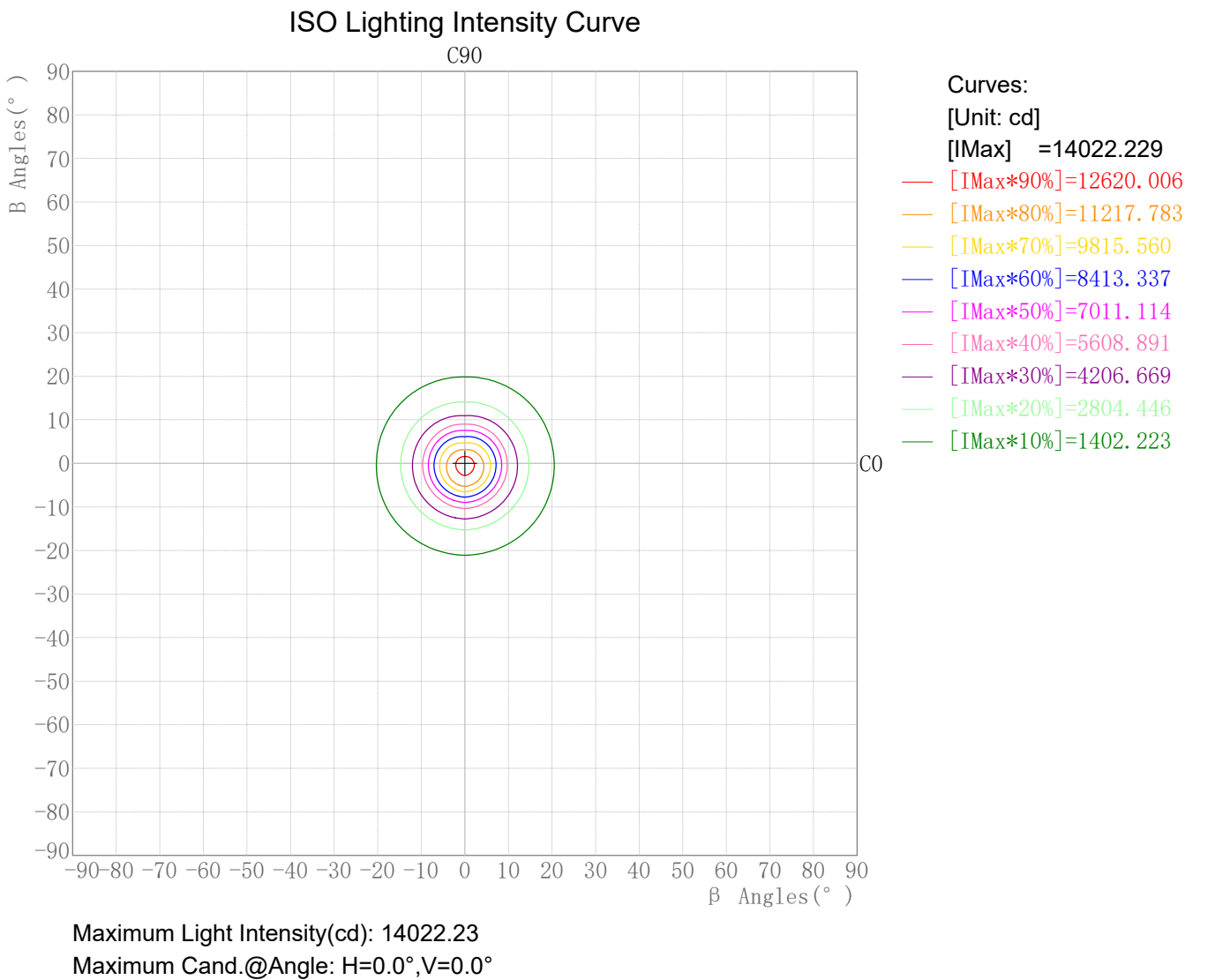


Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	294.52	294.52	12.72	12.72
5.0-10.0	567.79	862.31	24.51	37.23
10.0-15.0	468.71	1331.02	20.24	57.47
15.0-20.0	338.74	1669.76	14.63	72.09
20.0-25.0	228.89	1898.66	9.88	81.98
25.0-30.0	129.73	2028.39	5.60	87.58
30.0-35.0	71.60	2099.99	3.09	90.67
35.0-40.0	47.35	2147.34	2.04	92.71
40.0-45.0	31.47	2178.81	1.36	94.07
45.0-50.0	20.56	2199.37	0.89	94.96
50.0-55.0	14.41	2213.78	0.62	95.58
55.0-60.0	11.57	2225.35	0.50	96.08
60.0-65.0	9.71	2235.07	0.42	96.50
65.0-70.0	8.18	2243.25	0.35	96.85
70.0-75.0	6.87	2250.11	0.30	97.15
75.0-80.0	5.84	2255.95	0.25	97.40
80.0-85.0	5.00	2260.95	0.22	97.62
85.0-90.0	4.26	2265.21	0.18	97.80
90.0-95.0	3.64	2268.86	0.16	97.96
95.0-100.0	3.15	2272.01	0.14	98.09
100.0-105.0	2.85	2274.85	0.12	98.22
105.0-110.0	2.67	2277.52	0.12	98.33
110.0-115.0	2.49	2280.01	0.11	98.44
115.0-120.0	2.34	2282.35	0.10	98.54
120.0-125.0	2.35	2284.70	0.10	98.64
125.0-130.0	2.51	2287.21	0.11	98.75
130.0-135.0	2.84	2290.05	0.12	98.87
135.0-140.0	3.37	2293.42	0.15	99.02
140.0-145.0	3.92	2297.34	0.17	99.19
145.0-150.0	4.23	2301.57	0.18	99.37
150.0-155.0	4.13	2305.70	0.18	99.55
155.0-160.0	3.65	2309.35	0.16	99.71
160.0-165.0	2.95	2312.30	0.13	99.83
165.0-170.0	2.15	2314.46	0.09	99.93
170.0-175.0	1.27	2315.73	0.05	99.98
175.0-180.0	0.41	2316.14	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

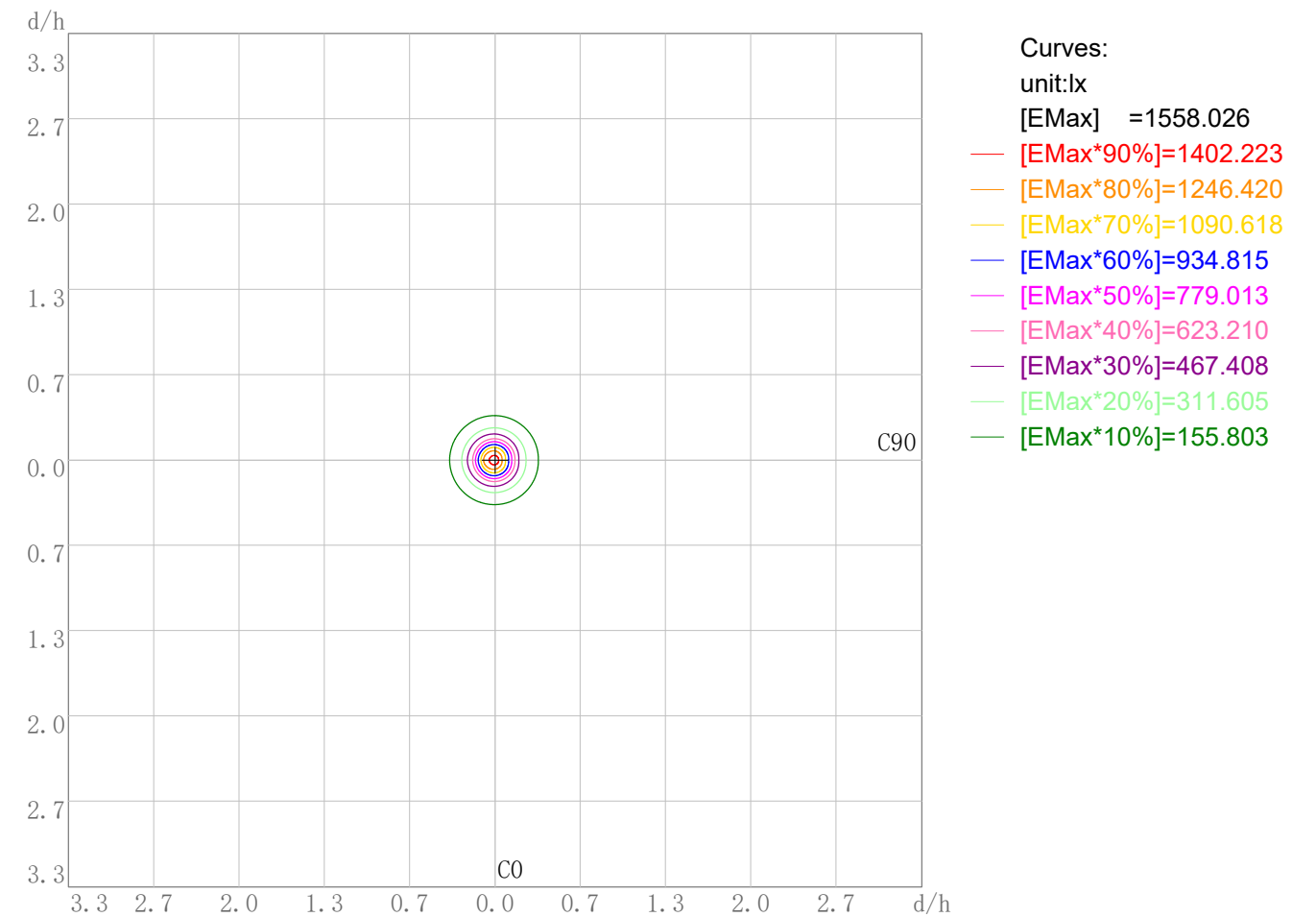
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Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/08



Plane ISO-Illuminance Diagram

Lum. Name:DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00

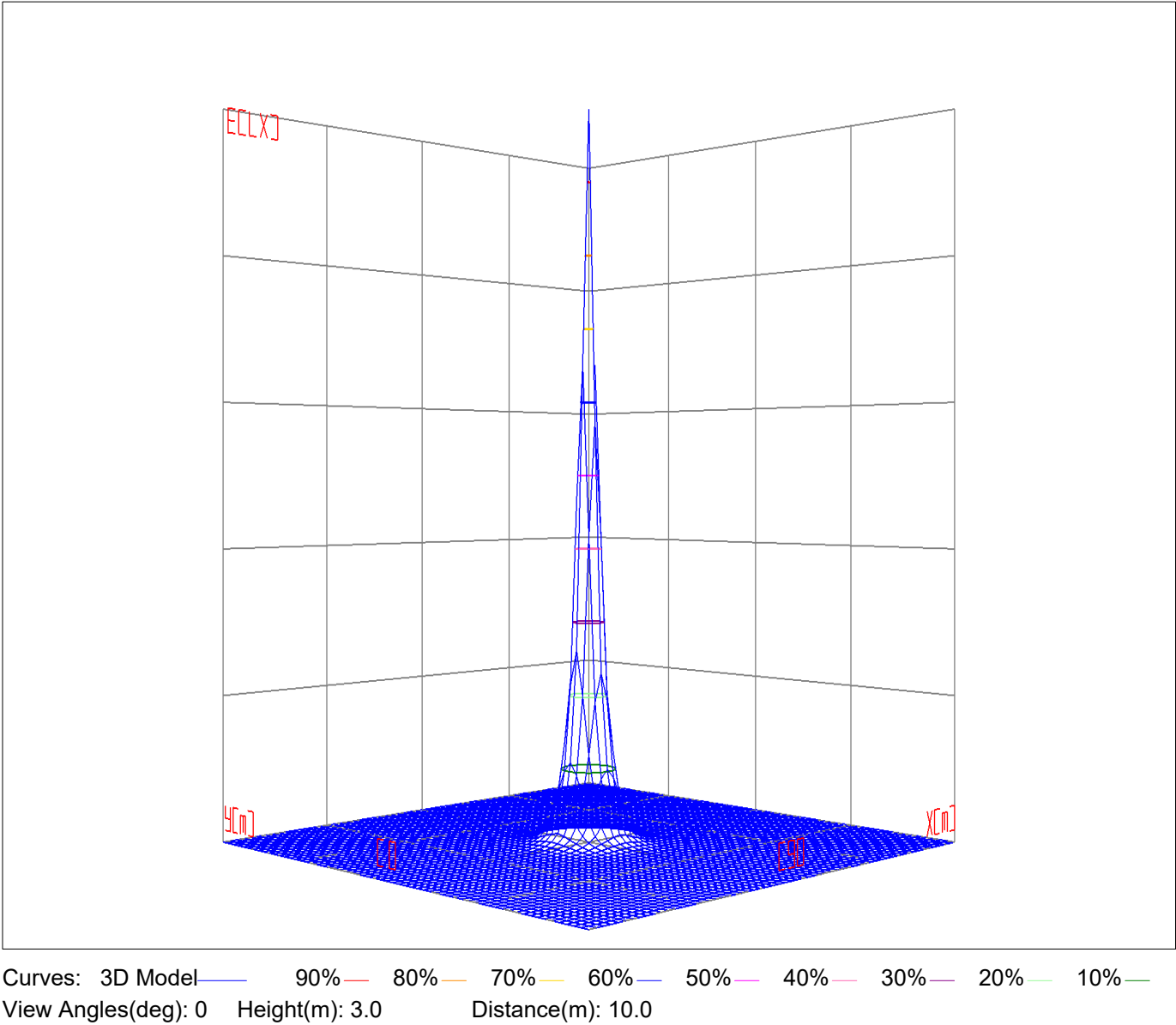
Working Plane Maximum Illuminance(lx): 1558.03

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

3D Plane ISO Illuminance Diagram

Lum. Name: DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/08

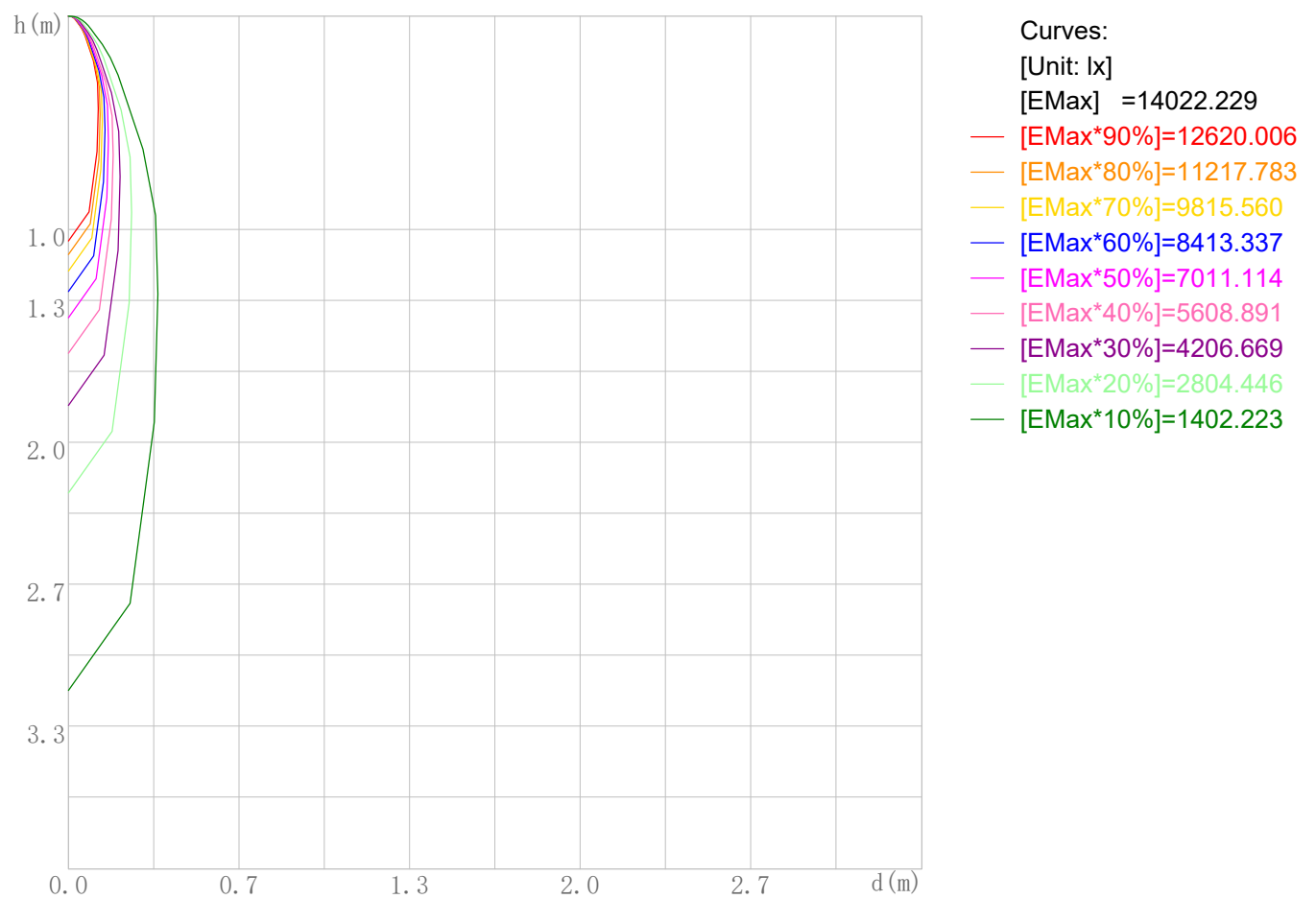
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/08

Space ISO Illuminance Curve

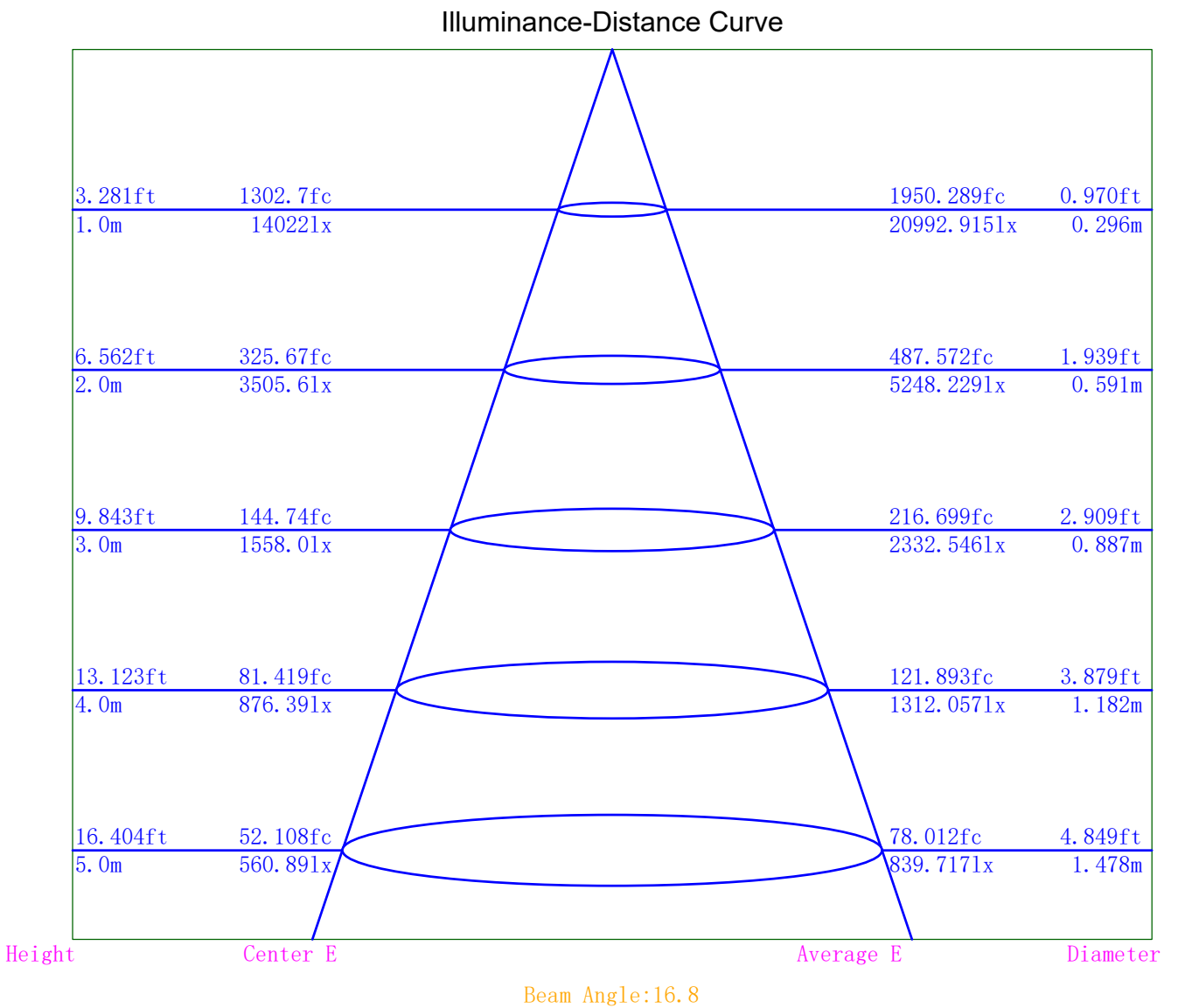


Space Plane Maximum Illuminance and @Angle:14022.23lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:14022.229cd,0eg



Illuminance-Distance Diagram

Lum. Name:DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08



Indoor Luminance Limiting Curves

Lum. Name:DL51-25-XX-01 3000K RA90 15D 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:2022/08/08

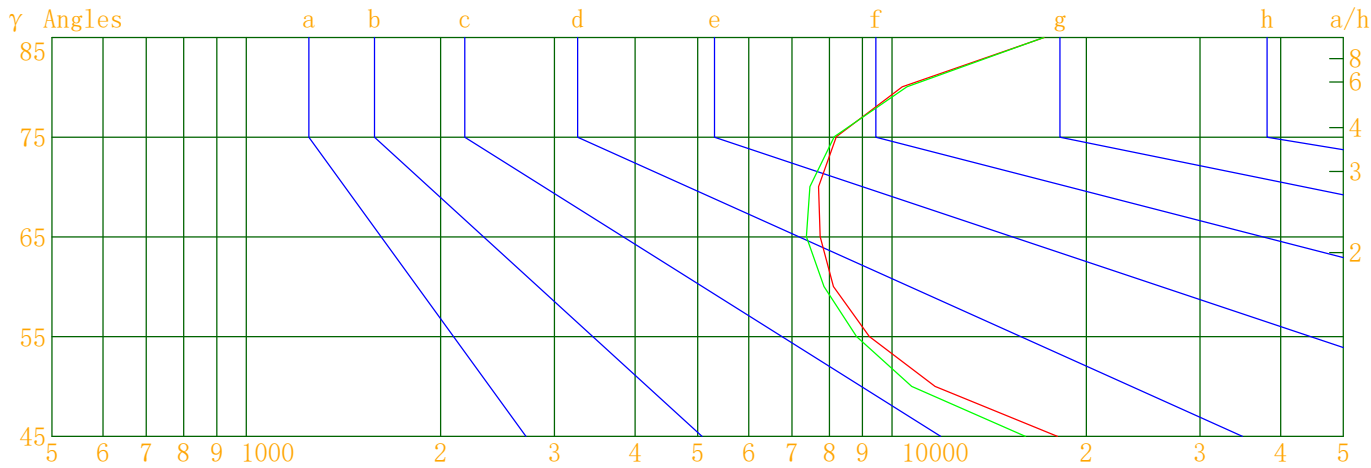
Glare Grade Table

GI	Quality	Using Illuminance							
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	18041	11661	9222	8116	7739	7697	8199	10371	17202
C90	16091	10729	8810	7848	7370	7461	8140	10549	17187

Luminance Limiting Curve



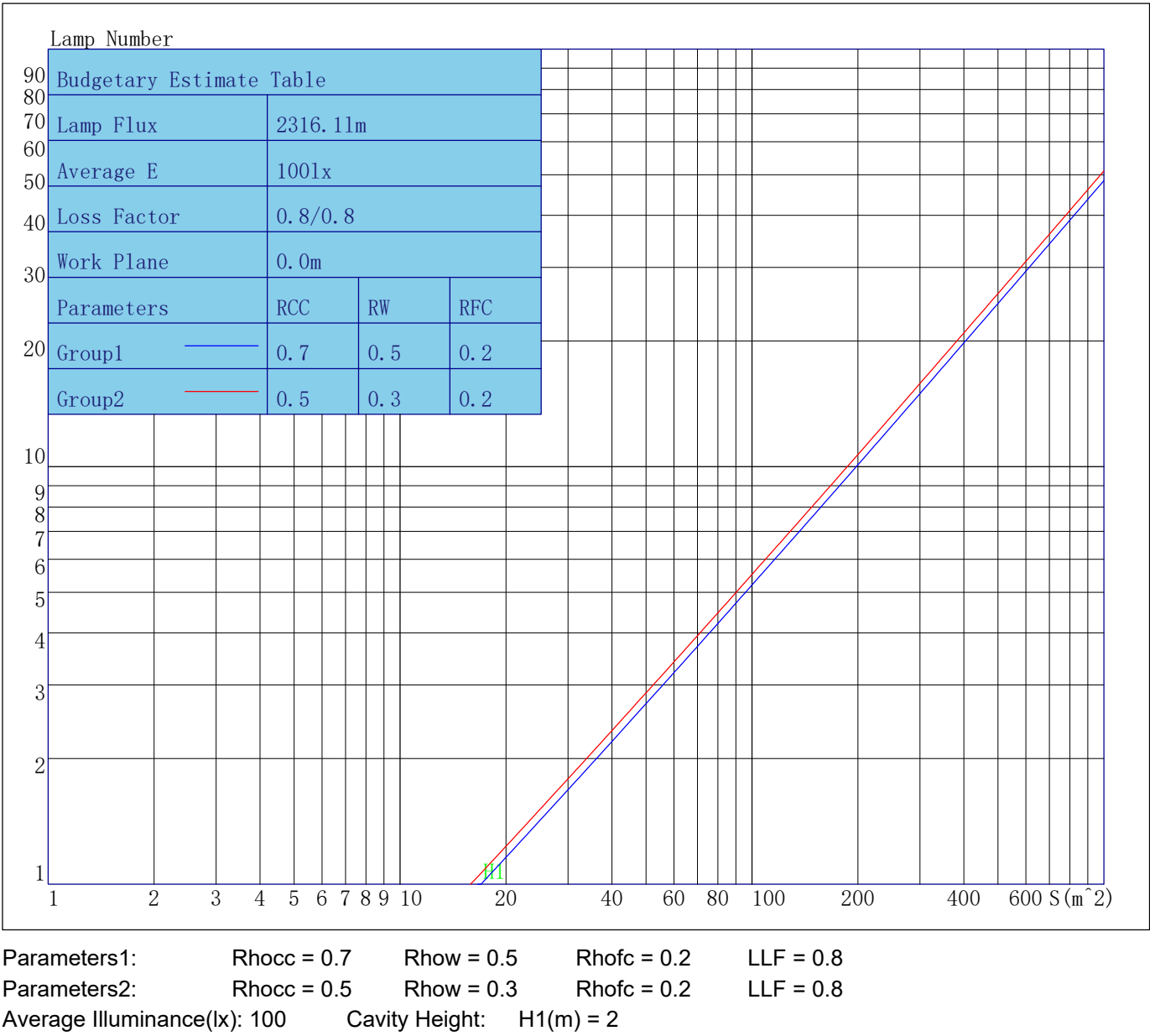
Luminous Size:Length(m)=-0.083Width(m)=-0.083Height(m)=0.000Area(m^2)=0.005411

Luminous Type:Without Luminous Side

Luminous Curves:C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name:DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08



Indoor Coefficient of Utilization Table

Lum. Name:DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID:01
Lamp Name:	Lamp Catelog:LED	Test Lab:Quality Department
Manufacture:Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date:2022/08/08

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	110	110	110	105	105	105	100	100	100	98
1	114	112	109	108	111	109	107	106	105	103	102	101	100	99	97	96	95	94
2	110	106	102	100	107	104	101	98	100	98	96	97	95	94	94	93	91	90
3	106	101	97	94	104	99	96	93	96	94	91	94	91	89	91	89	88	86
4	102	96	92	89	100	95	91	88	93	90	87	91	88	86	89	87	85	83
5	99	93	88	85	97	92	87	84	90	86	83	88	85	83	86	84	82	80
6	96	89	85	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	86	82	79	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	77	75	80	77	74	73
9	88	81	77	74	87	80	76	73	79	76	73	78	75	73	78	75	72	71
10	86	79	74	71	85	78	74	71	77	74	71	76	73	71	76	73	71	70

Unified Glare Rating Table

Lum. Name: DL51-25-XX-01 3000K RA90 15D 金色	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/08/08

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	Vewed crosswise					Vewed endwise					
X=2H    Y=2H	14.6	15.5	15.0	15.9	16.3	14.1	15.1	14.6	15.5	15.8	
	Y=3H	15.1	15.9	15.5	16.3	16.7	14.7	15.6	15.1	15.9	16.4
	Y=4H	15.4	16.2	15.9	16.6	17.1	15.1	15.9	15.6	16.3	16.7
	Y=6H	15.9	16.6	16.4	17.1	17.5	15.6	16.4	16.1	16.8	17.2
	Y=8H	16.2	16.9	16.7	17.4	17.8	16.0	16.7	16.5	17.1	17.6
	Y=12H	16.6	17.3	17.1	17.7	18.2	16.4	17.1	16.9	17.5	18.0
X=4H    Y=2H	14.6	15.4	15.1	15.8	16.2	14.2	15.0	14.7	15.4	15.9	
	Y=3H	15.4	16.0	15.8	16.5	16.9	15.0	15.7	15.5	16.1	16.6
	Y=4H	15.9	16.5	16.4	16.9	17.4	15.6	16.2	16.1	16.6	17.2
	Y=6H	16.6	17.1	17.1	17.6	18.1	16.4	16.9	16.9	17.4	17.9
	Y=8H	17.0	17.5	17.6	18.0	18.5	16.9	17.3	17.4	17.8	18.4
	Y=12H	17.6	18.0	18.1	18.5	19.1	17.4	17.9	18.0	18.4	18.9
X=8H    Y=4H	16.1	16.6	16.6	17.0	17.6	15.8	16.3	16.3	16.8	17.3	
	Y=6H	17.0	17.4	17.6	18.0	18.5	16.8	17.2	17.4	17.8	18.3
	Y=8H	17.6	18.0	18.2	18.5	19.1	17.5	17.8	18.1	18.4	18.9
	Y=12H	18.4	18.7	19.0	19.3	19.9	18.3	18.6	18.9	19.2	19.8
X=12H    Y=4H	16.1	16.5	16.6	17.1	17.6	15.8	16.3	16.4	16.8	17.3	
	Y=6H	17.1	17.5	17.7	18.0	18.6	17.0	17.3	17.5	17.8	18.4
	Y=8H	17.9	18.2	18.4	18.7	19.3	17.7	18.0	18.3	18.6	19.2
Variations with the objverver 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/-0.3					0.2/-0.2					
Reduced UGR Table:											
Nordic Standard Table:	BK0					BK0					
Correction Value	2.7					2.9					

o the CIE Pub.117,data has been corrected,refers to the lamp's lumens 8.2flm.

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	14022.2	14022.2	14022.2	14022.2
γ 5.0	10755.8	9493.6	10641.9	11566.3
γ 10.0	5313.7	4615.5	5259.8	5841.0
γ 15.0	2642.7	2403.1	2653.2	2876.8
γ 20.0	1477.4	1367.7	1449.9	1570.0
γ 25.0	734.0	656.7	665.5	808.2
γ 30.0	332.1	302.2	276.8	325.0
γ 35.0	195.0	179.9	158.4	175.6
γ 40.0	117.9	108.1	97.6	102.8
γ 45.0	69.0	61.6	59.4	63.7
γ 50.0	40.6	37.3	37.1	38.3
γ 55.0	28.6	27.3	27.5	28.4
γ 60.0	22.0	21.2	22.1	23.0
γ 65.0	17.7	16.9	18.1	18.9
γ 70.0	14.2	13.8	14.5	15.1
γ 75.0	11.5	11.4	12.0	12.4
γ 80.0	9.7	9.9	10.0	10.3
γ 85.0	8.1	8.1	8.5	8.9
γ 90.0	7.1	7.3	7.0	7.2
γ 95.0	6.3	6.4	5.8	6.1
γ 100.0	5.7	5.9	5.0	5.2
γ 105.0	5.4	5.4	4.7	5.3
γ 110.0	5.3	5.5	4.5	4.7
γ 115.0	5.0	4.7	4.5	5.0
γ 120.0	4.8	4.8	4.7	5.0
γ 125.0	5.2	5.3	5.3	5.5
γ 130.0	5.7	6.3	6.3	6.5
γ 135.0	7.5	7.8	8.2	8.1
γ 140.0	9.8	10.2	10.8	10.4
γ 145.0	12.7	13.1	13.6	13.5
γ 150.0	15.4	15.5	15.7	15.5
γ 155.0	16.5	17.2	17.4	17.2
γ 160.0	17.2	17.9	17.6	18.1
γ 165.0	17.8	18.2	18.2	18.3
γ 170.0	17.7	18.3	18.1	18.3
γ 175.0	17.3	17.4	17.4	17.6
γ 180.0	17.2	17.2	17.2	17.2