

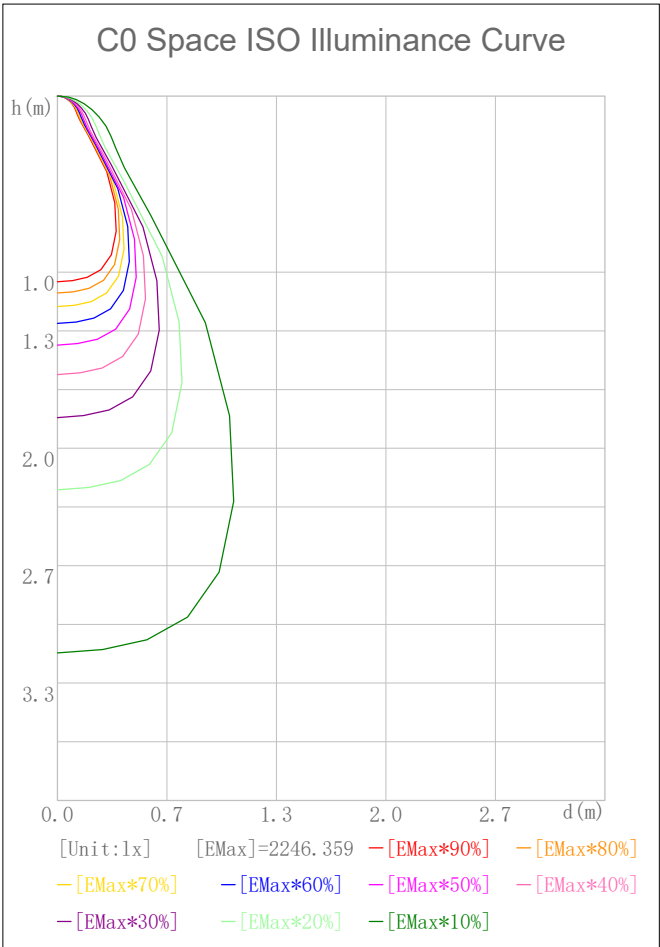
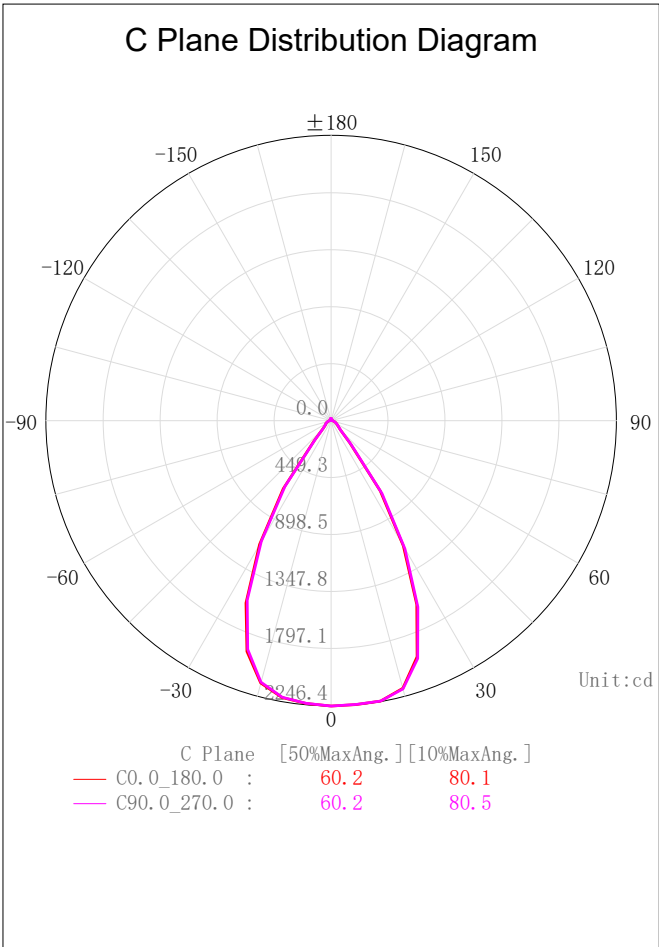
Indoor Luminaire Photometric Data

Description Information

Luminary Name: PD08-25-XX-01 3000K RA90 60D		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/09/14
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):0.007	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

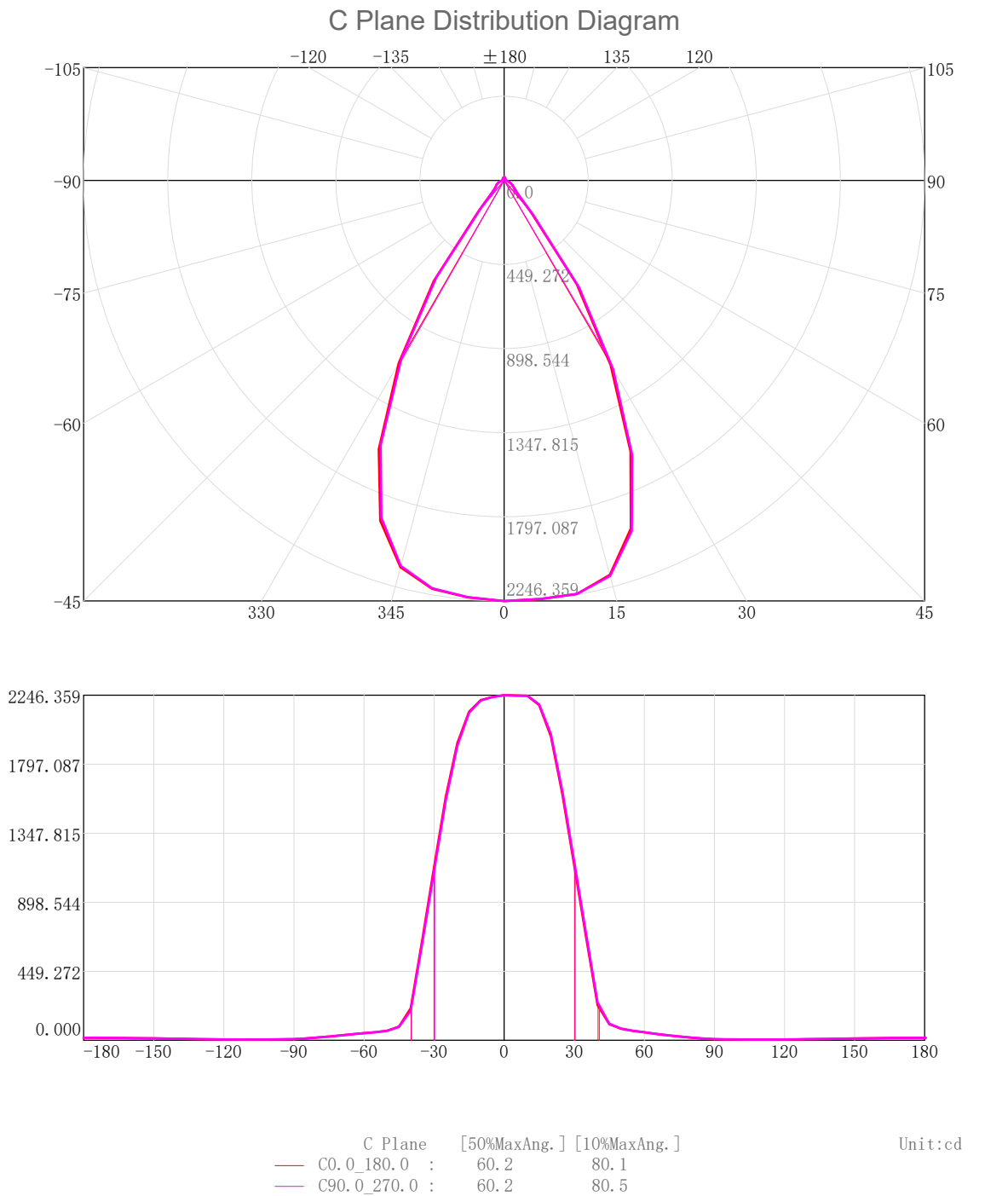
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2220.680	Luminary Flux(lm): 2220.675	Field Angle(10%Imax): 80.1(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2168.115lm 97.63%	
Rated Voltage(V):	Luminary EER(lm/W): 98.916	Up Lumens&Percent: 52.560lm 2.37%	
Tested Power(W): 22.450	Max. Candela(cd): 2246.359	S/MH: C0_a180=0.962 C90_270=0.961	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.9, 0.097, 0.956	Beam Angle(50%Imax): 60.2(°)	ErP Φ use(90°): 2005.270lm	
Lamp Size (W*L*H):0.083m*0.083m*0.000m	Left=-30.0°, Right=30.2°	IRF(%): 227.609	



2D Plane Light Intensity Distribution Curve

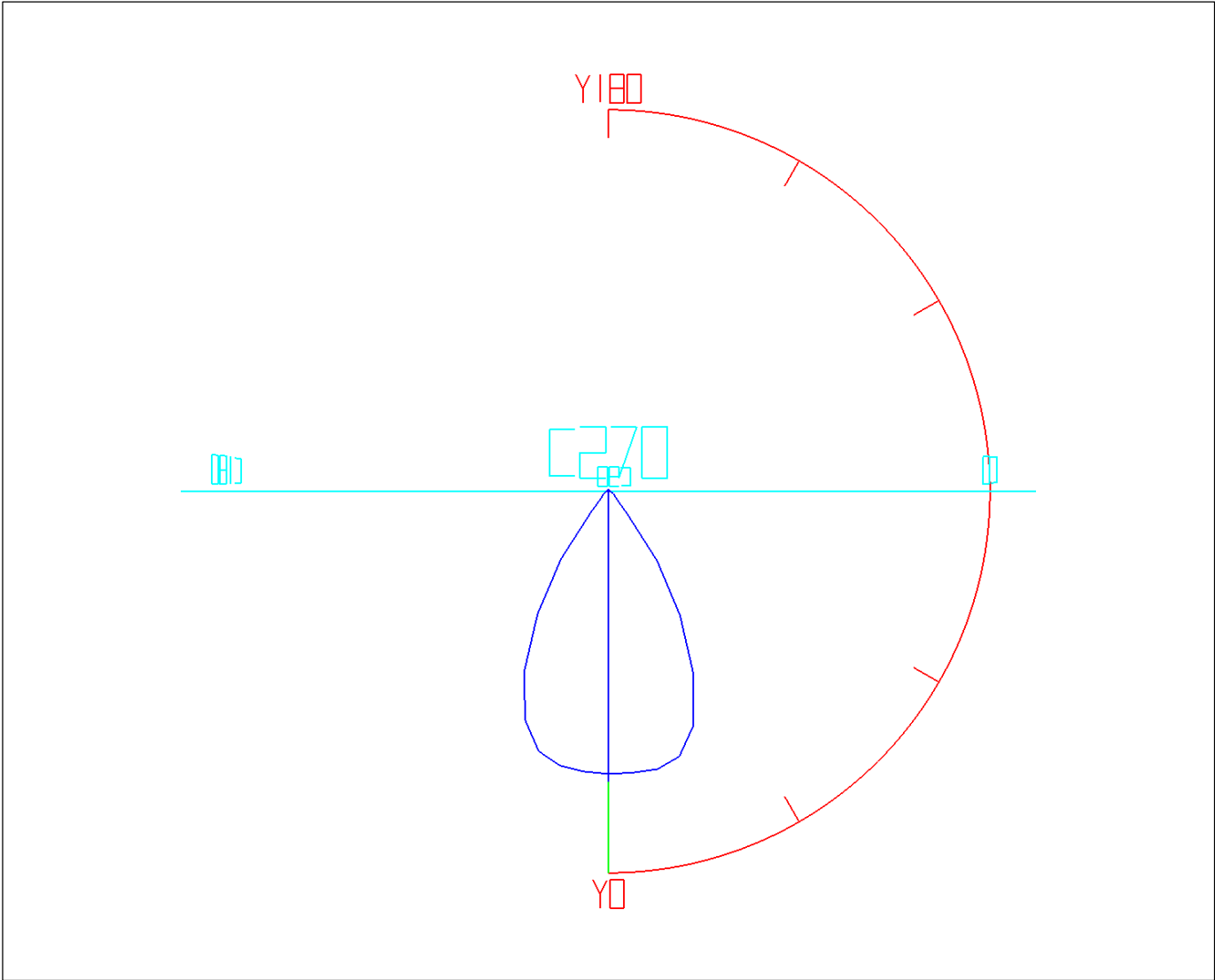
Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14



3D Light Intensity Distribution Modal

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —

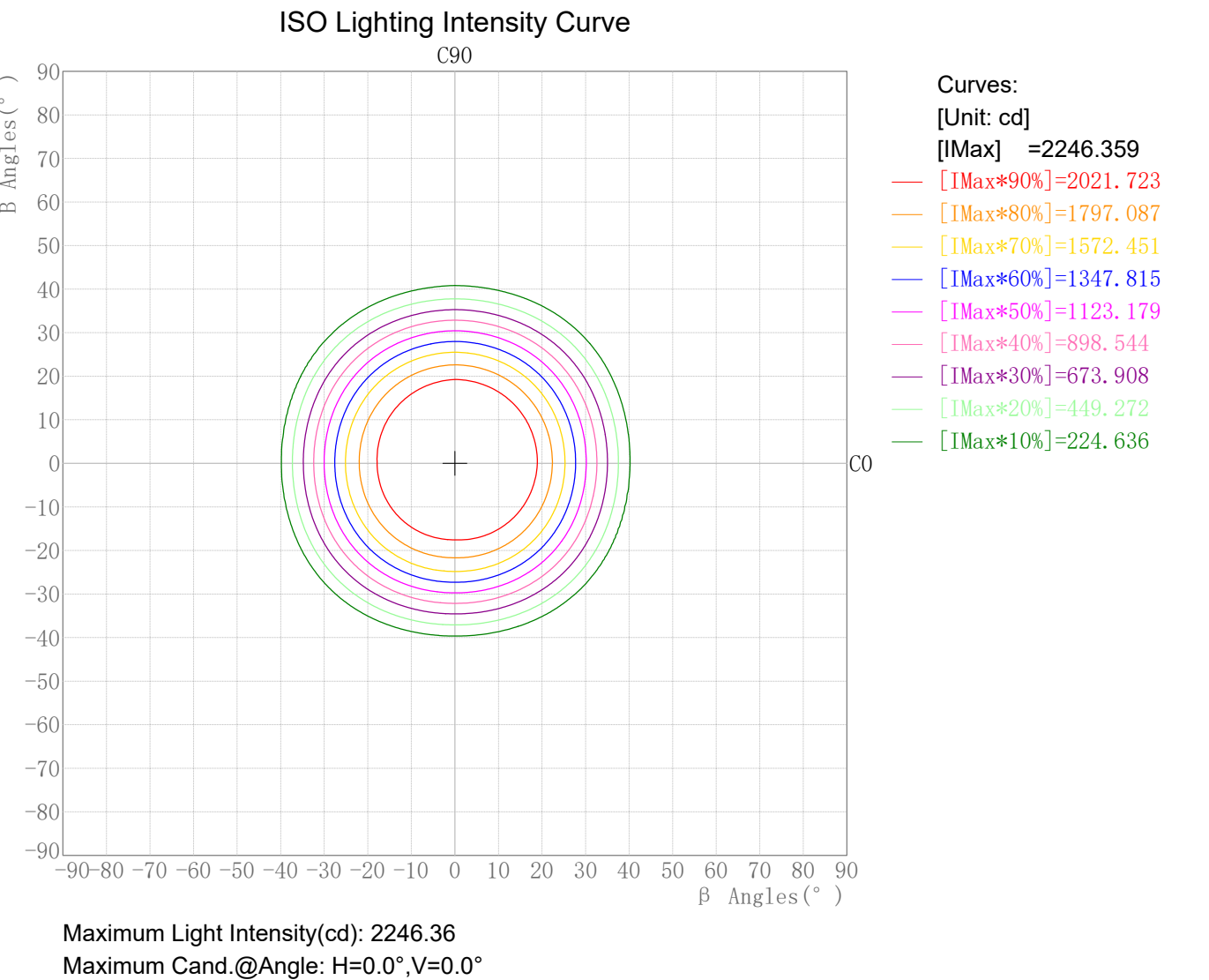
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	53.62	53.62	2.41	2.41
5.0-10.0	159.79	213.41	7.20	9.61
10.0-15.0	260.24	473.65	11.72	21.33
15.0-20.0	339.14	812.79	15.27	36.60
20.0-25.0	371.87	1184.66	16.75	53.35
25.0-30.0	344.37	1529.03	15.51	68.85
30.0-35.0	264.63	1793.66	11.92	80.77
35.0-40.0	147.76	1941.43	6.65	87.42
40.0-45.0	58.86	2000.29	2.65	90.08
45.0-50.0	33.88	2034.17	1.53	91.60
50.0-55.0	27.75	2061.92	1.25	92.85
55.0-60.0	24.90	2086.82	1.12	93.97
60.0-65.0	22.05	2108.87	0.99	94.97
65.0-70.0	18.63	2127.50	0.84	95.80
70.0-75.0	15.10	2142.60	0.68	96.48
75.0-80.0	11.60	2154.20	0.52	97.01
80.0-85.0	8.34	2162.54	0.38	97.38
85.0-90.0	5.57	2168.12	0.25	97.63
90.0-95.0	4.10	2172.21	0.18	97.82
95.0-100.0	3.62	2175.84	0.16	97.98
100.0-105.0	3.24	2179.07	0.15	98.13
105.0-110.0	2.96	2182.03	0.13	98.26
110.0-115.0	2.84	2184.87	0.13	98.39
115.0-120.0	2.88	2187.75	0.13	98.52
120.0-125.0	3.04	2190.79	0.14	98.65
125.0-130.0	3.26	2194.05	0.15	98.80
130.0-135.0	3.46	2197.51	0.16	98.96
135.0-140.0	3.60	2201.11	0.16	99.12
140.0-145.0	3.67	2204.77	0.17	99.28
145.0-150.0	3.60	2208.38	0.16	99.45
150.0-155.0	3.36	2211.74	0.15	99.60
155.0-160.0	2.97	2214.71	0.13	99.73
160.0-165.0	2.48	2217.19	0.11	99.84
165.0-170.0	1.89	2219.08	0.08	99.93
170.0-175.0	1.19	2220.27	0.05	99.98
175.0-180.0	0.41	2220.68	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

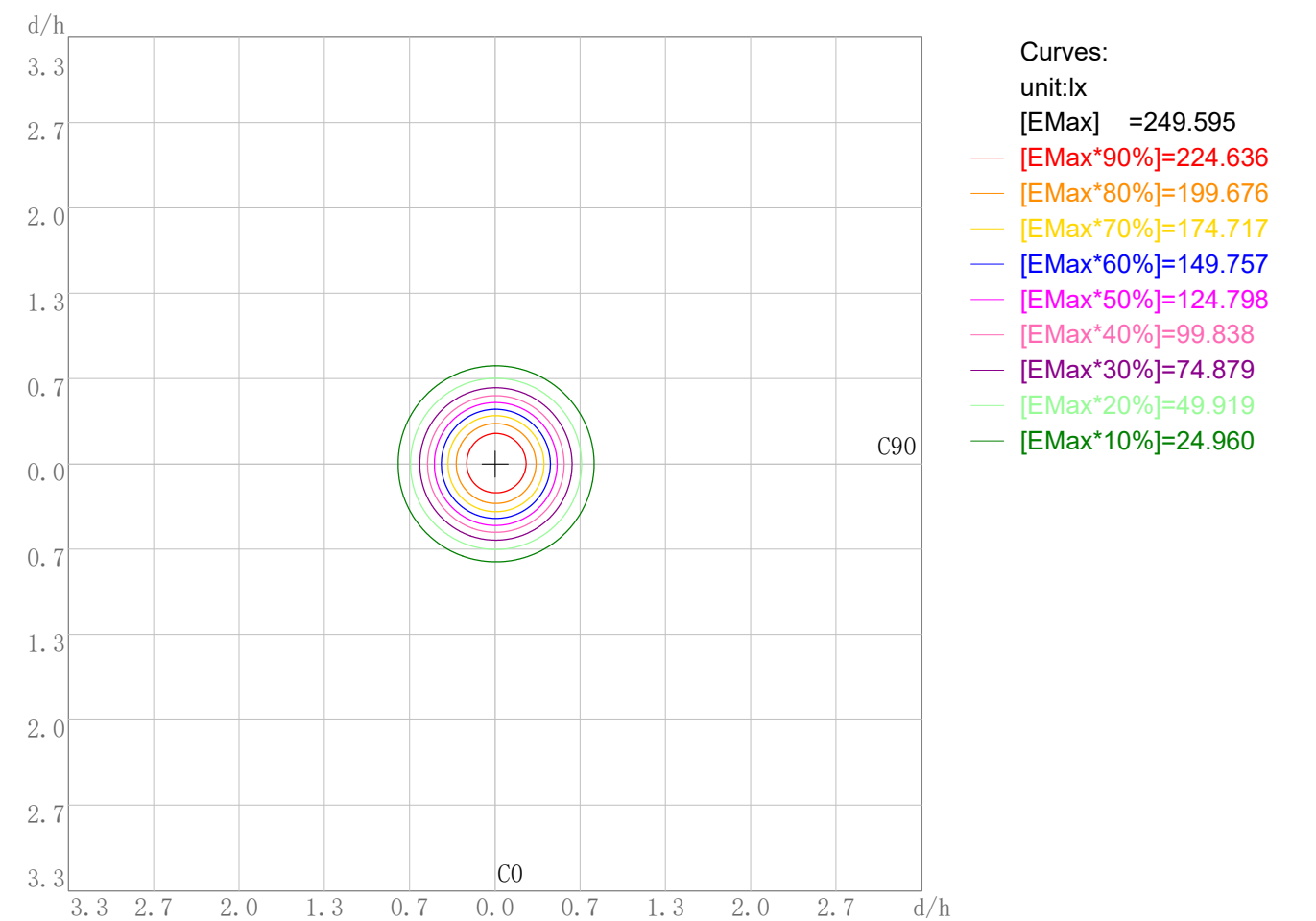
Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14



Plane ISO-Illuminance Diagram

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

Plane ISO-Illuminance Curve

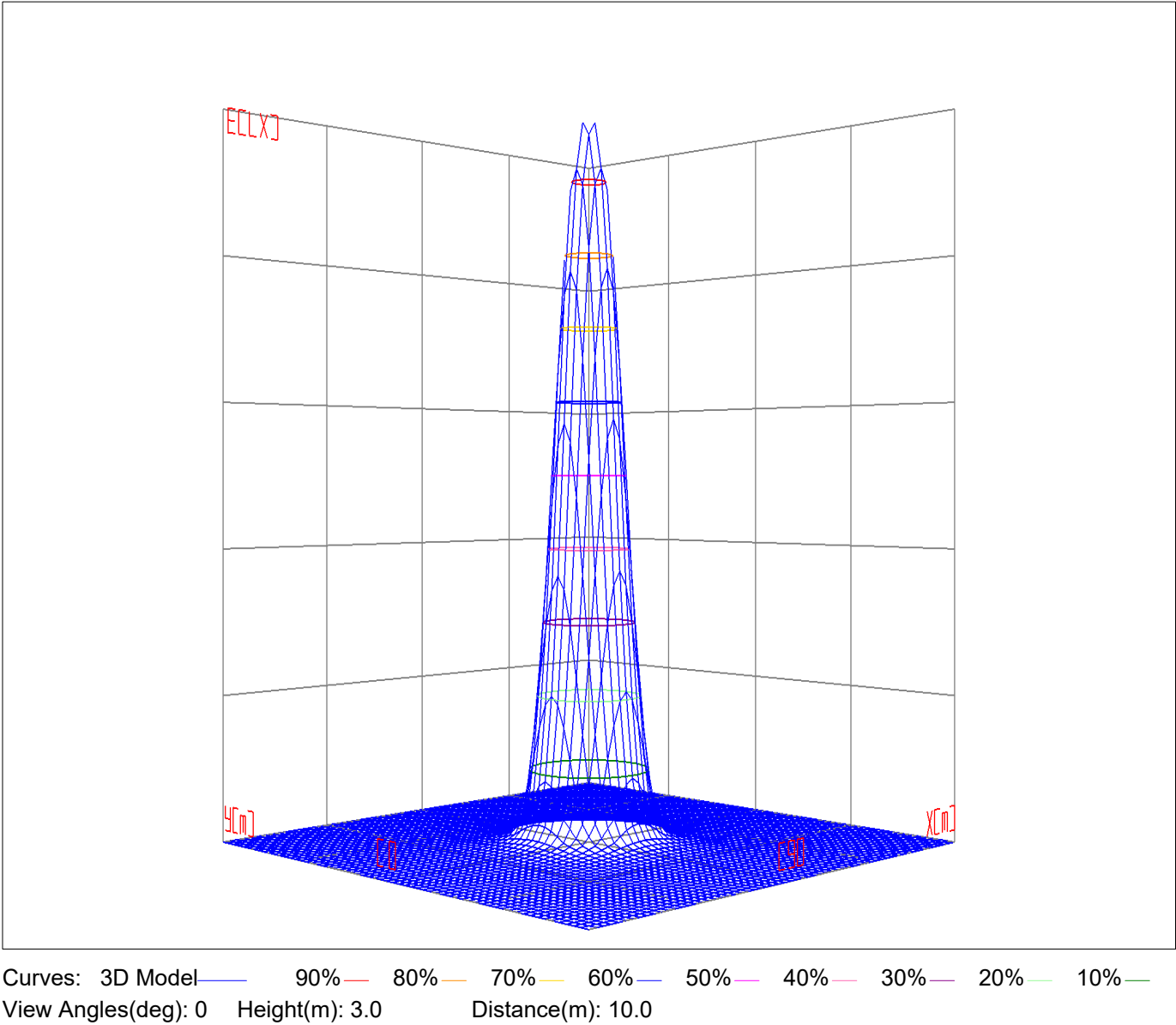


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 249.60  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

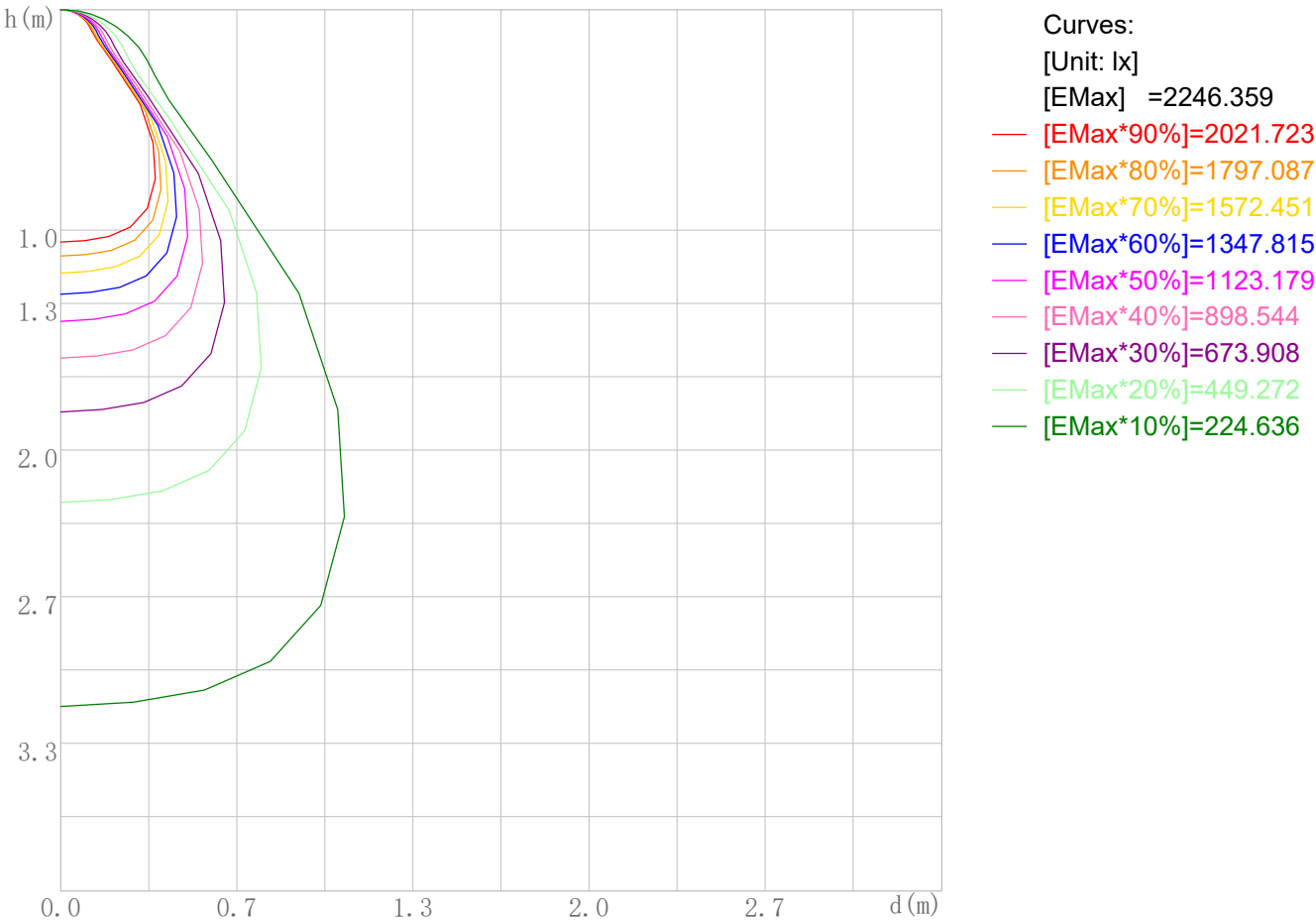
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

Space ISO Illuminance Curve

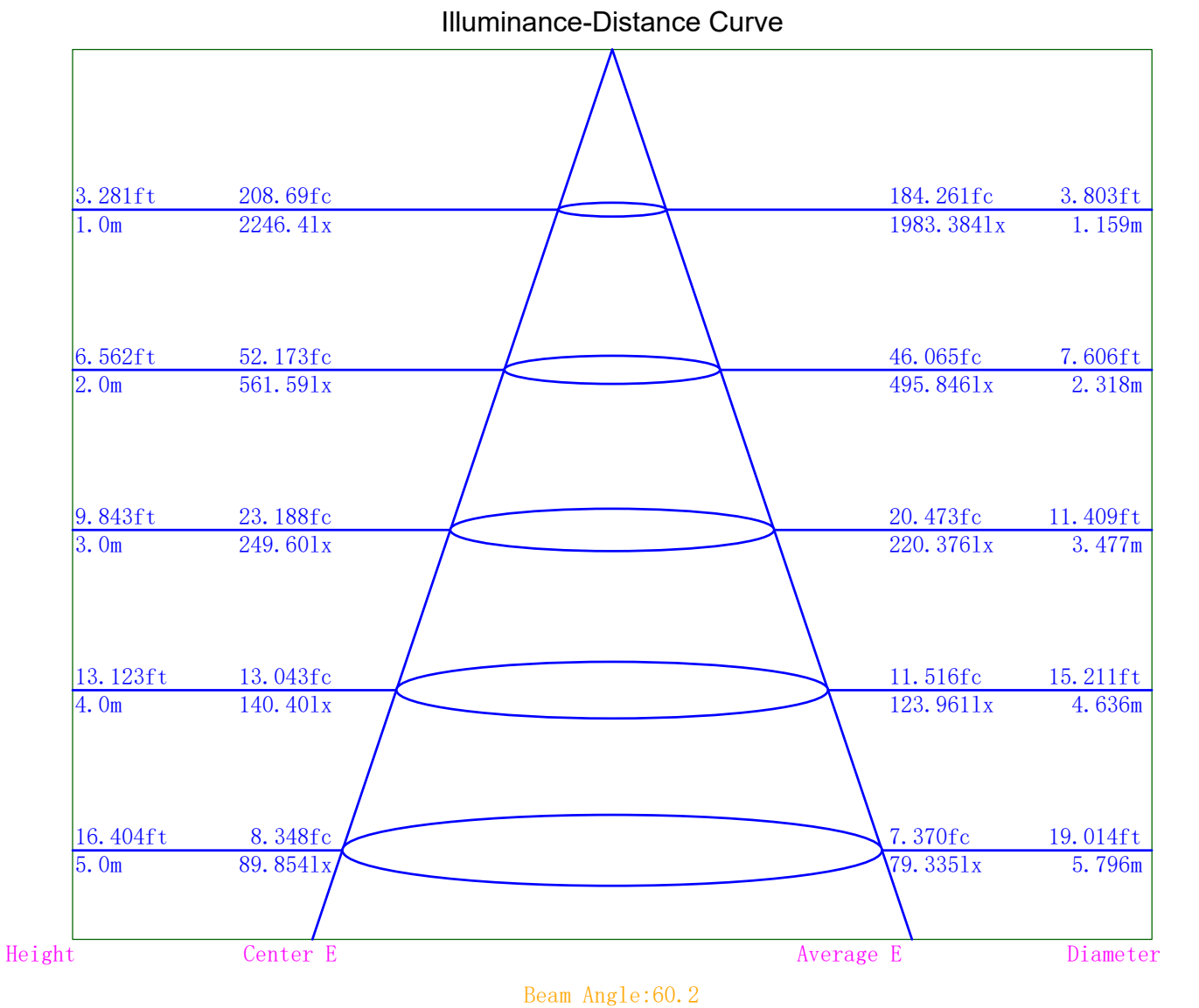


Space Plane Maximum Illuminance and @Angle:2246.36lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:2246.359cd,0deg



Illuminance-Distance Diagram

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14



Indoor Luminance Limiting Curves

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

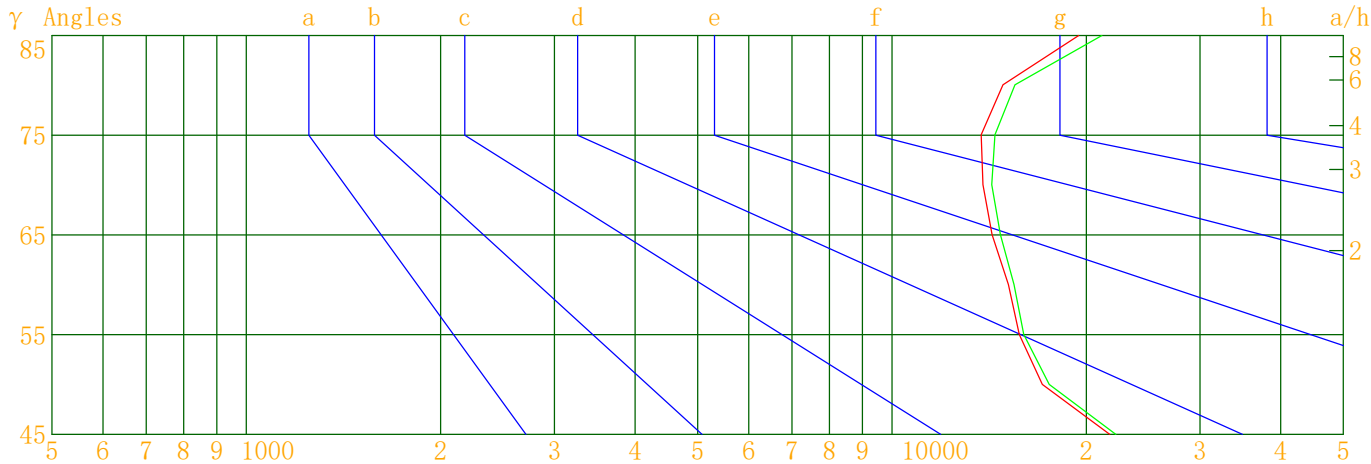
Glare Grade Table

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	21736	17092	15745	15147	14289	13832	13746	14859	19462
C90	22210	17521	15996	15455	14721	14271	14436	15502	21137

Luminance Limiting Curve



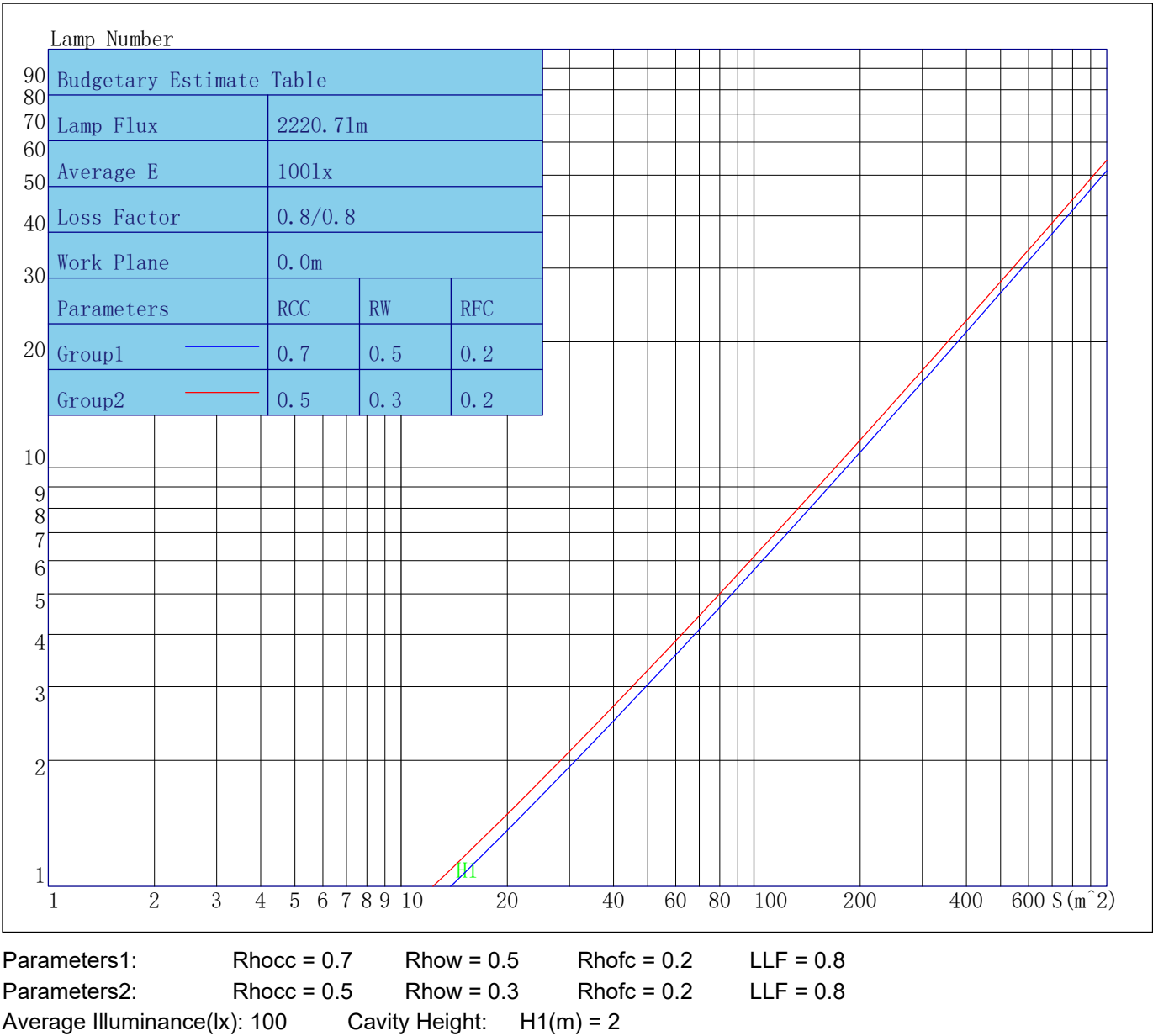
Luminous Size: Length(m)=0.083 Width(m)=0.083 Height(m)=0.000 Area(m^2)=0.006889

Luminous Type: Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14



Indoor Coefficient of Utilization Table

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catelog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	112	109	106	104	110	107	104	102	102	100	99	98	97	95	94	93	92	90
2	106	101	97	93	104	99	95	92	95	92	89	92	89	87	89	87	85	83
3	101	94	88	84	98	92	87	83	89	85	82	86	83	80	84	81	79	77
4	95	87	81	77	93	86	81	76	84	79	75	81	77	74	79	76	73	71
5	90	82	75	71	88	80	75	71	78	73	70	76	72	69	75	71	68	66
6	86	76	70	66	84	75	70	65	74	69	65	72	68	64	71	67	64	62
7	81	72	66	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	68	61	57	76	67	61	57	66	60	57	64	60	56	63	59	56	54
9	74	64	58	54	72	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

Unified  Glare Rating Table

Lum. Name: PD08-25-XX-01 3000K RA90 60D	Lum. Catelog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/14

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		Vewed crosswise					Vewed endwise				
X=2H	Y=2H	20.6	21.6	21.0	22.0	22.3	20.8	21.8	21.2	22.1	22.5
	Y=3H	21.0	21.8	21.4	22.2	22.7	21.1	22.0	21.6	22.4	22.8
	Y=4H	21.2	22.0	21.6	22.4	22.9	21.4	22.2	21.8	22.6	23.0
	Y=6H	21.4	22.2	21.9	22.6	23.1	21.6	22.4	22.1	22.8	23.2
	Y=8H	21.6	22.3	22.0	22.7	23.2	21.8	22.5	22.2	22.9	23.4
	Y=12H	21.7	22.4	22.2	22.8	23.3	21.9	22.6	22.4	23.0	23.5
X=4H	Y=2H	20.6	21.4	21.0	21.8	22.2	20.7	21.5	21.2	21.9	22.4
	Y=3H	21.1	21.8	21.6	22.3	22.7	21.3	22.0	21.7	22.4	22.9
	Y=4H	21.5	22.1	22.0	22.6	23.1	21.6	22.2	22.1	22.7	23.2
	Y=6H	21.9	22.4	22.4	22.9	23.4	22.1	22.6	22.6	23.1	23.6
	Y=8H	22.1	22.6	22.6	23.1	23.6	22.3	22.8	22.8	23.3	23.8
	Y=12H	22.3	22.7	22.8	23.3	23.8	22.5	22.9	23.1	23.5	24.0
X=8H	Y=4H	21.6	22.1	22.1	22.6	23.1	21.7	22.2	22.2	22.7	23.2
	Y=6H	22.1	22.5	22.7	23.1	23.6	22.3	22.7	22.9	23.2	23.8
	Y=8H	22.4	22.8	23.0	23.4	23.9	22.6	23.0	23.2	23.5	24.1
	Y=12H	22.8	23.1	23.4	23.7	24.3	23.0	23.3	23.6	23.9	24.5
X=12H	Y=4H	21.6	22.0	22.1	22.5	23.0	21.7	22.1	22.3	22.7	23.2
	Y=6H	22.2	22.5	22.8	23.0	23.6	22.3	22.7	22.9	23.2	23.8
	Y=8H	22.6	22.9	23.1	23.4	24.0	22.7	23.0	23.3	23.6	24.2
Variations with the objerver position at spacings											
S=1.0H		0.2/-0.2					0.3/-0.3				
S=1.5H		0.5/-0.5					0.5/-0.5				
S=2.0H		0.6/-0.7					0.5/-0.6				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		1.8					1.8				

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

IES Indoor Report

Photometric Filename:PD08-25-XX-01 3000K RA90 60D.IE

S

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	2246.36	2246.36	2246.36	2246.36
γ 5.0	2244.17	2243.16	2235.11	2234.05
γ 10.0	2242.25	2242.53	2214.17	2211.61
γ 15.0	2181.14	2186.55	2138.55	2131.40
γ 20.0	1978.53	1993.10	1934.07	1917.11
γ 25.0	1597.64	1618.36	1583.84	1559.64
γ 30.0	1138.79	1163.99	1125.12	1097.54
γ 35.0	676.47	699.84	654.73	631.79
γ 40.0	230.25	247.51	209.07	192.92
γ 45.0	105.88	108.19	89.60	88.15
γ 50.0	75.69	77.59	63.13	62.52
γ 55.0	62.22	63.21	53.11	53.09
γ 60.0	52.17	53.23	46.85	46.99
γ 65.0	41.60	42.86	39.54	39.60
γ 70.0	32.59	33.62	32.06	32.47
γ 75.0	24.51	25.74	24.80	25.21
γ 80.0	17.77	18.55	18.36	18.52
γ 85.0	11.69	12.69	12.45	12.73
γ 90.0	7.31	8.72	7.79	8.05
γ 95.0	6.59	7.40	6.86	7.15
γ 100.0	6.21	6.32	6.23	6.56
γ 105.0	5.72	5.59	5.71	6.07
γ 110.0	5.40	5.42	5.58	5.77
γ 115.0	5.24	5.53	6.02	5.93
γ 120.0	5.89	6.00	6.14	6.63
γ 125.0	6.61	6.74	7.28	7.34
γ 130.0	7.82	7.92	7.88	8.34
γ 135.0	8.76	9.08	9.13	9.52
γ 140.0	9.92	10.20	10.54	10.67
γ 145.0	11.26	11.43	11.56	12.31
γ 150.0	12.35	12.66	12.97	13.29
γ 155.0	13.51	13.73	13.72	14.06
γ 160.0	14.30	14.37	14.57	14.98
γ 165.0	15.15	15.80	15.49	15.74
γ 170.0	16.14	16.17	16.20	16.58
γ 175.0	16.59	17.09	16.79	17.41
γ 180.0	17.30	17.30	17.30	17.30