

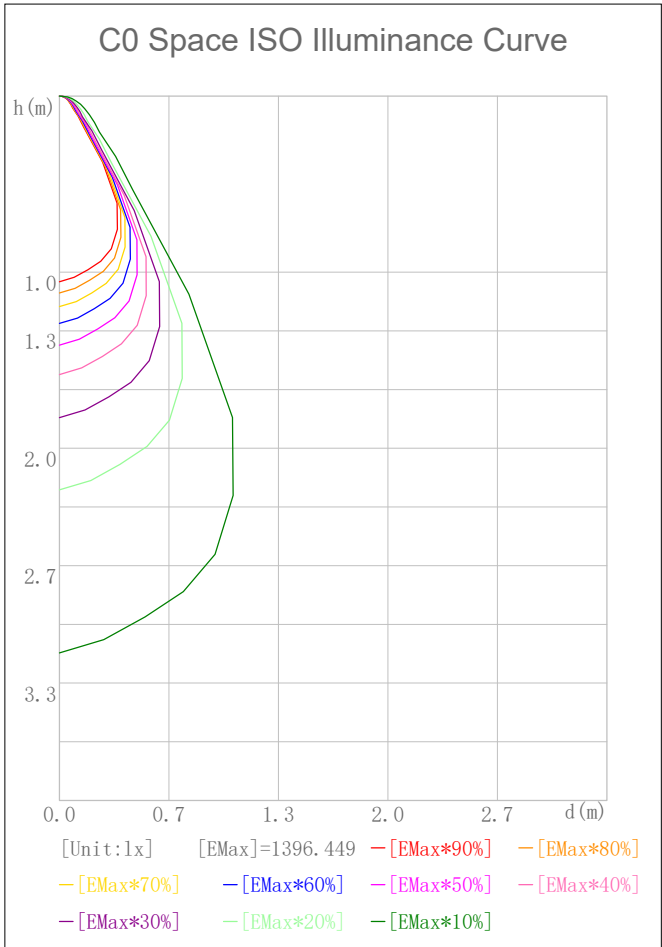
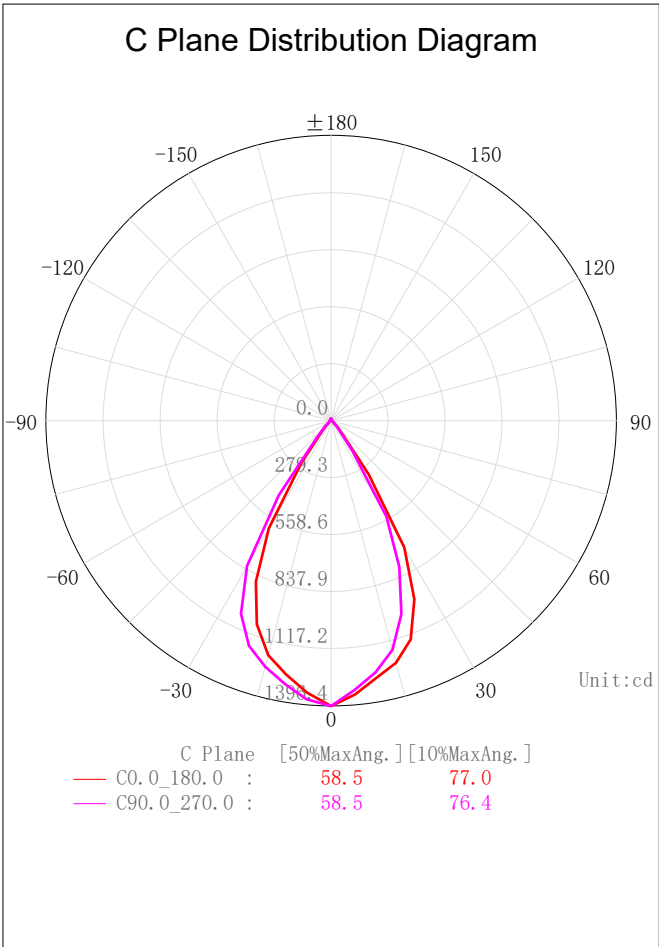
Indoor Luminaire Photometric Data

Description Information

Luminary Name: PD08-15-XX-01 3000K RA90 60D		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: LED	Test Date: 2022/09/12
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):0.055m*0.055m*0.000m		Lum. Area (m2):0.003	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

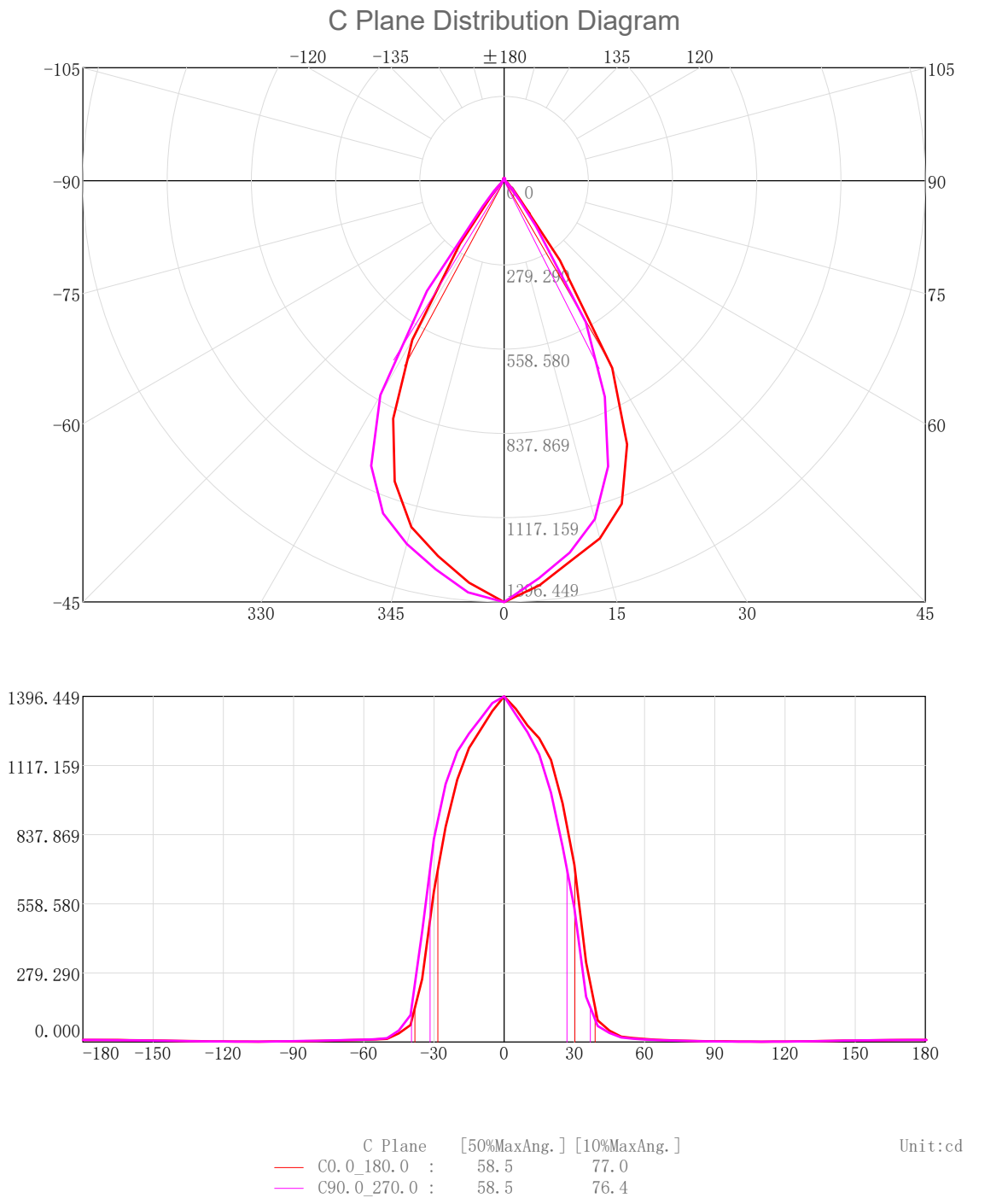
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1172.490	Luminary Flux(lm): 1172.494	Field Angle(10%Imax): 77.0(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1149.128lm 98.01%	
Rated Voltage(V):	Luminary EER(lm/W): 88.691	Up Lumens&Percent: 23.365lm 1.99%	
Tested Power(W): 13.220	Max. Candela(cd): 1396.449	S/MH: C0_a180=0.918 C90_270=0.921	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):239.9, 0.059, 0.919	Beam Angle(50%Imax): 58.5(°)	ErP Φ use(90°): 1073.367lm	
Lamp Size (W*L*H):0.055m*0.055m*0.000m	Left=-28.3°, Right=30.2°	IRF(%): 251.704	



2D Plane Light Intensity Distribution Curve

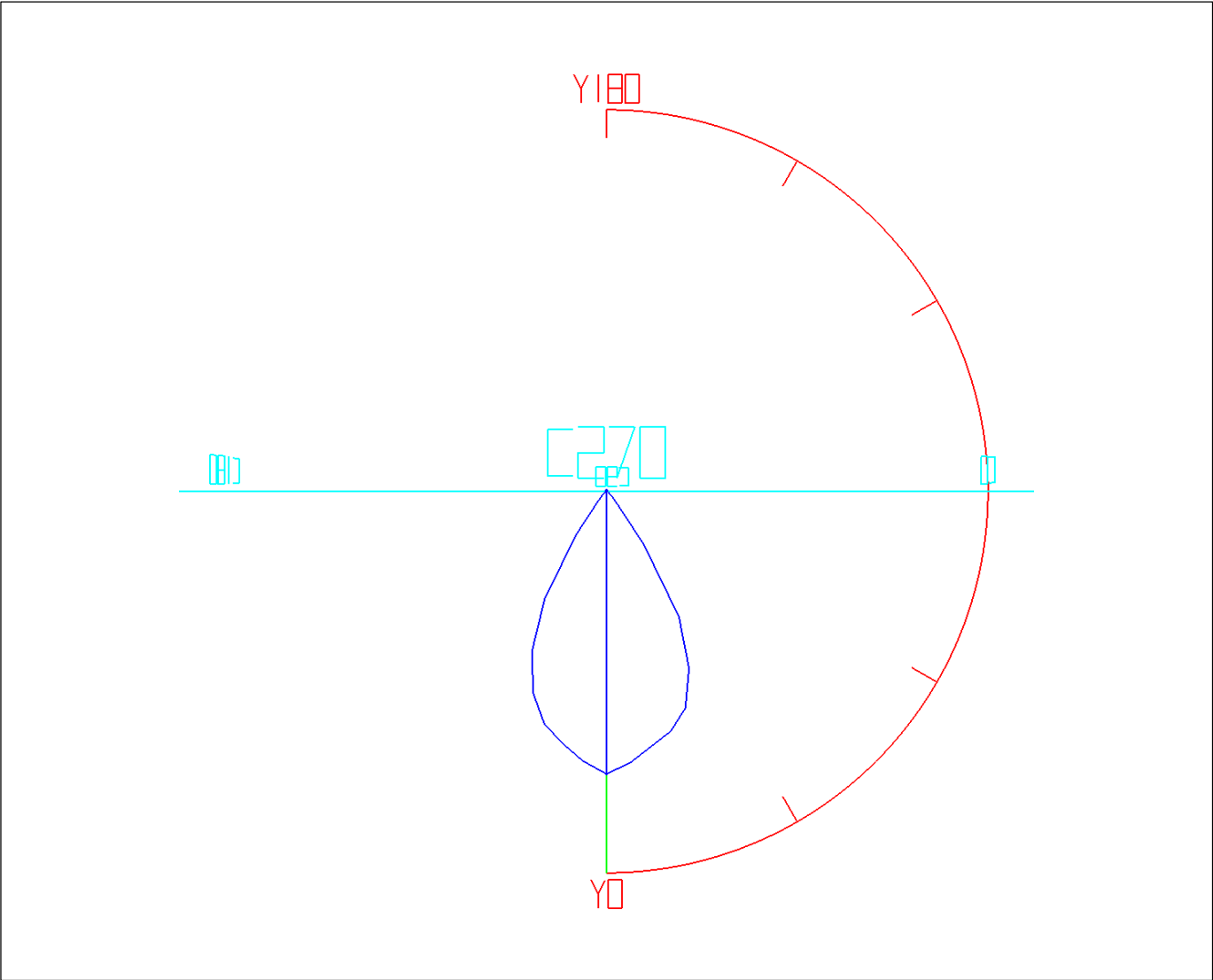
Lum. Name: PD08-15-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/12



3D Light Intensity Distribution Modal

Lum. Name: PD08-15-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: 2022/09/12

3D Light Intensity Distribution Modal



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

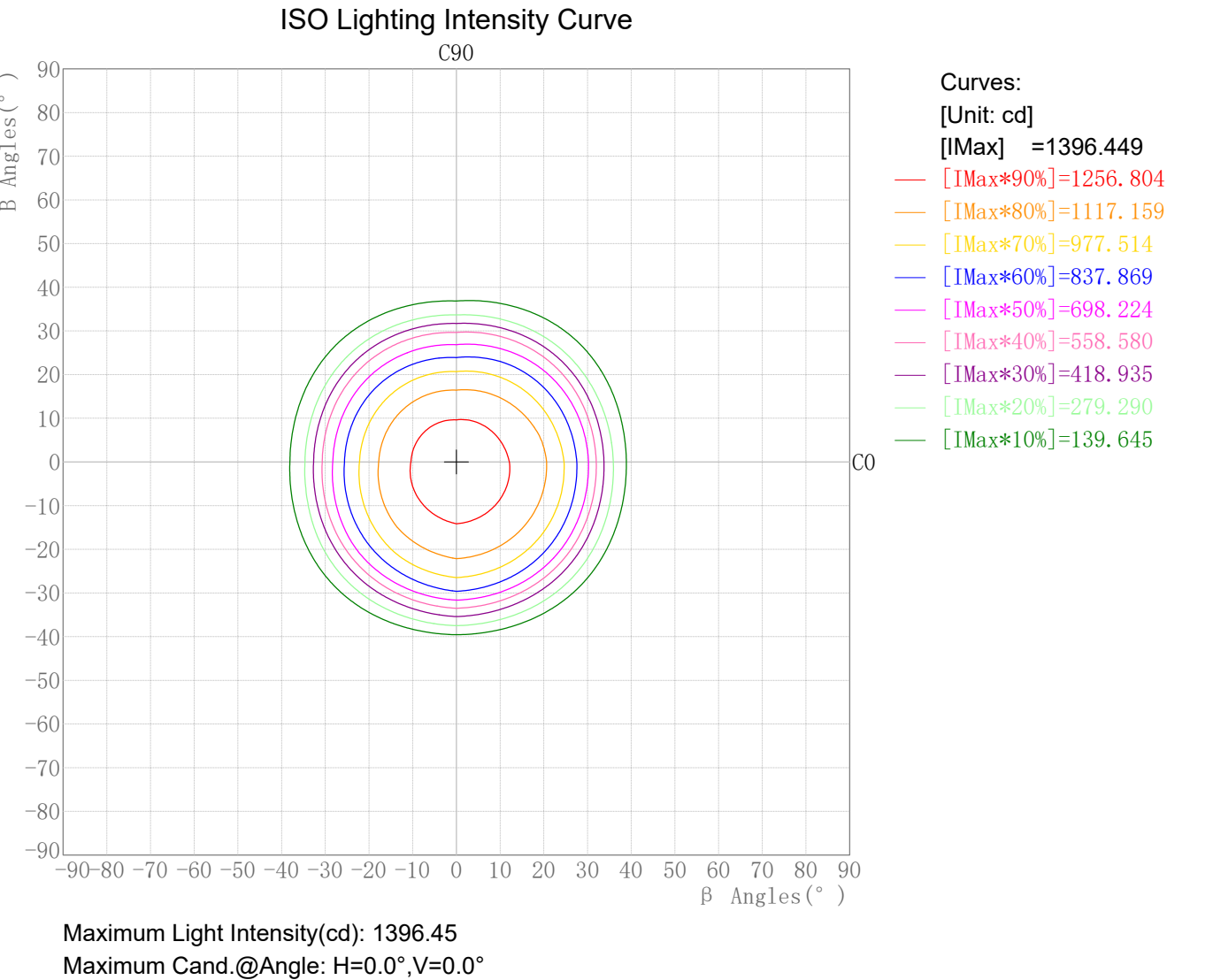
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	32.76	32.76	2.79	2.79
5.0-10.0	93.69	126.45	7.99	10.78
10.0-15.0	147.17	273.62	12.55	23.34
15.0-20.0	189.63	463.24	16.17	39.51
20.0-25.0	211.01	674.26	18.00	57.51
25.0-30.0	201.03	875.29	17.15	74.65
30.0-35.0	143.33	1018.62	12.22	86.88
35.0-40.0	64.14	1082.76	5.47	92.35
40.0-45.0	23.00	1105.76	1.96	94.31
45.0-50.0	11.89	1117.65	1.01	95.32
50.0-55.0	6.67	1124.33	0.57	95.89
55.0-60.0	5.49	1129.82	0.47	96.36
60.0-65.0	4.66	1134.48	0.40	96.76
65.0-70.0	4.01	1138.49	0.34	97.10
70.0-75.0	3.41	1141.90	0.29	97.39
75.0-80.0	2.84	1144.74	0.24	97.63
80.0-85.0	2.40	1147.14	0.21	97.84
85.0-90.0	1.98	1149.13	0.17	98.01
90.0-95.0	1.63	1150.76	0.14	98.15
95.0-100.0	1.41	1152.17	0.12	98.27
100.0-105.0	1.23	1153.40	0.10	98.37
105.0-110.0	1.10	1154.51	0.09	98.47
110.0-115.0	1.04	1155.54	0.09	98.55
115.0-120.0	1.11	1156.66	0.09	98.65
120.0-125.0	1.24	1157.89	0.11	98.76
125.0-130.0	1.40	1159.29	0.12	98.87
130.0-135.0	1.57	1160.86	0.13	99.01
135.0-140.0	1.69	1162.55	0.14	99.15
140.0-145.0	1.79	1164.35	0.15	99.31
145.0-150.0	1.81	1166.16	0.15	99.46
150.0-155.0	1.71	1167.87	0.15	99.61
155.0-160.0	1.52	1169.39	0.13	99.74
160.0-165.0	1.29	1170.68	0.11	99.85
165.0-170.0	0.99	1171.66	0.08	99.93
170.0-175.0	0.62	1172.28	0.05	99.98
175.0-180.0	0.21	1172.49	0.02	100.00

Rectangle ISO Lighting Intensity Diagram

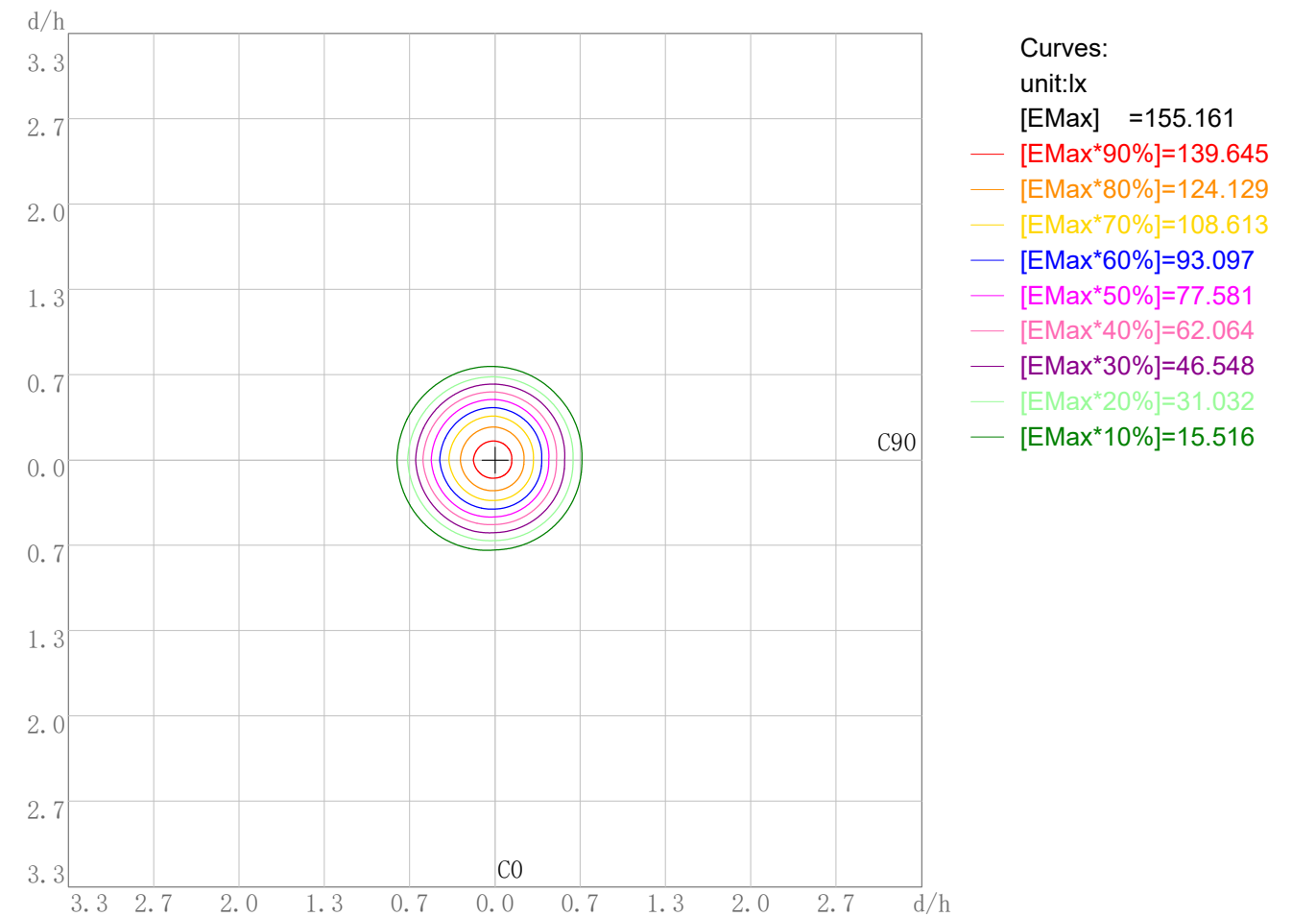
Lum. Name: PD08-15-XX-01 3000K RA90 60D	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: LED	Test Lab: Quality Department
Manufacture: Shenzhen Norming Lighting	Test Machine:GON-2000	Test Date: 2022/09/12



Plane ISO-Illuminance Diagram

Lum. Name: PD08-15-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: 2022/09/12

Plane ISO-Illuminance Curve

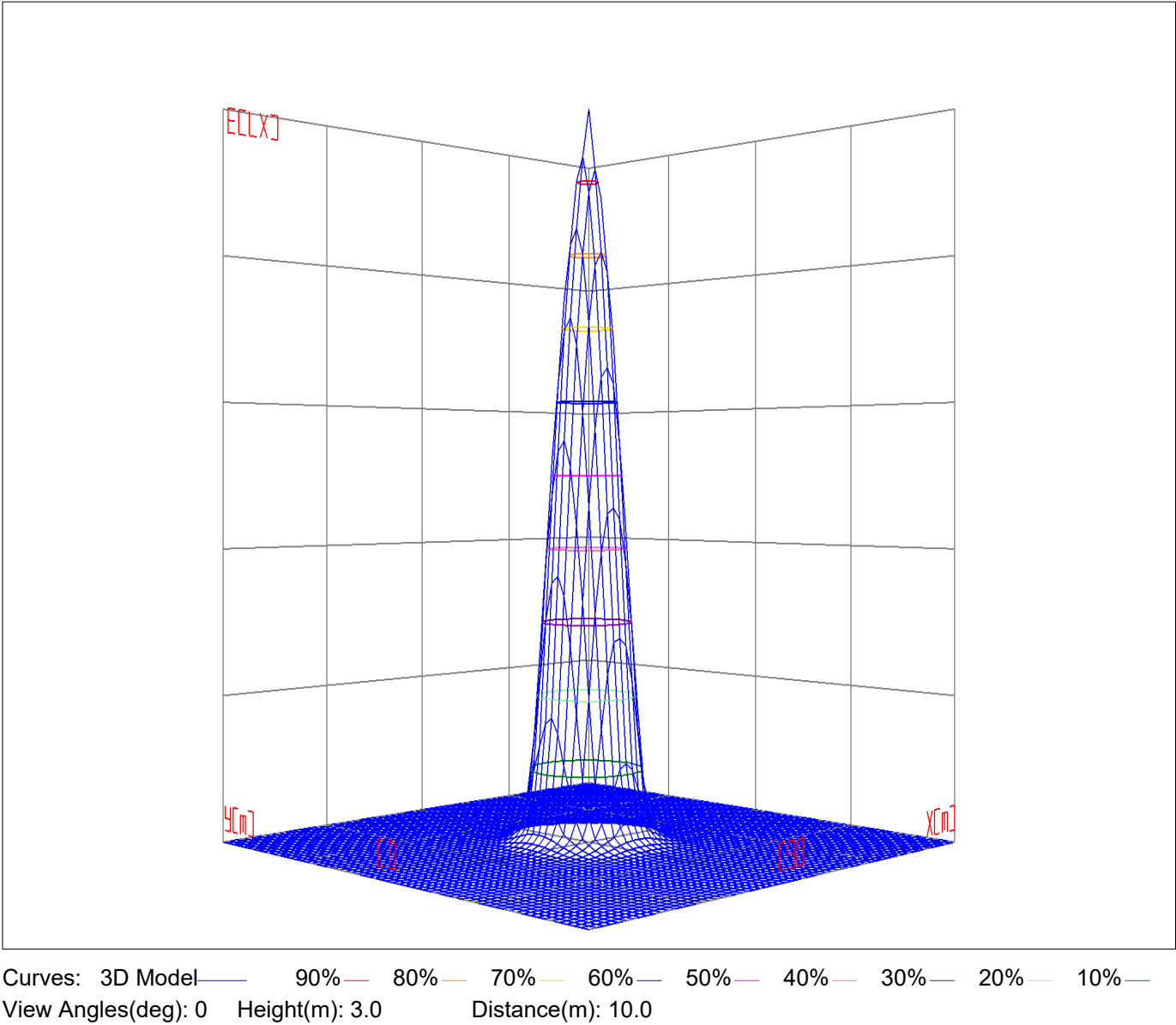


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 155.16  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: PD08-15-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: 2022/09/12

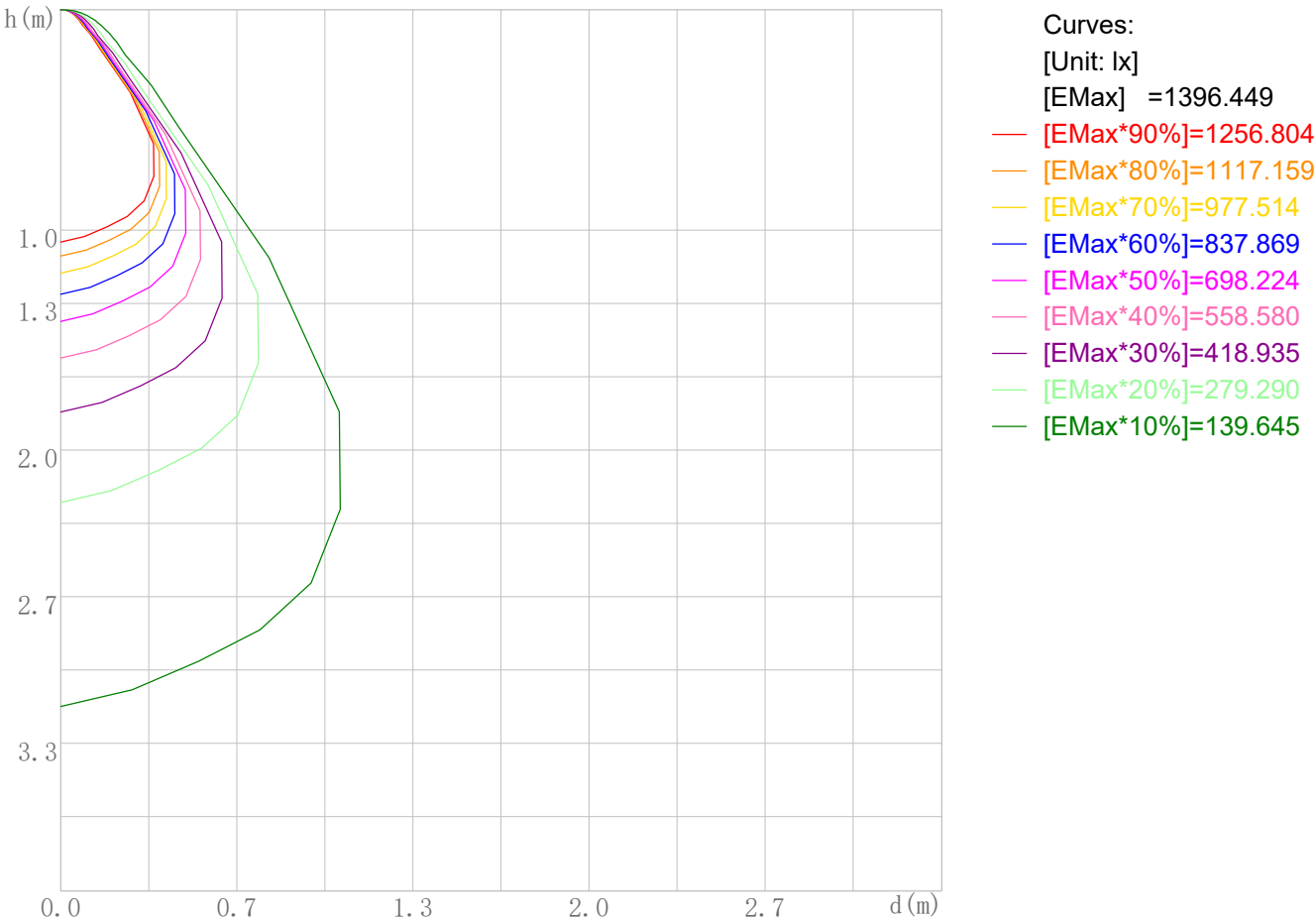
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: PD08-15-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: 2022/09/12

Space ISO Illuminance Curve

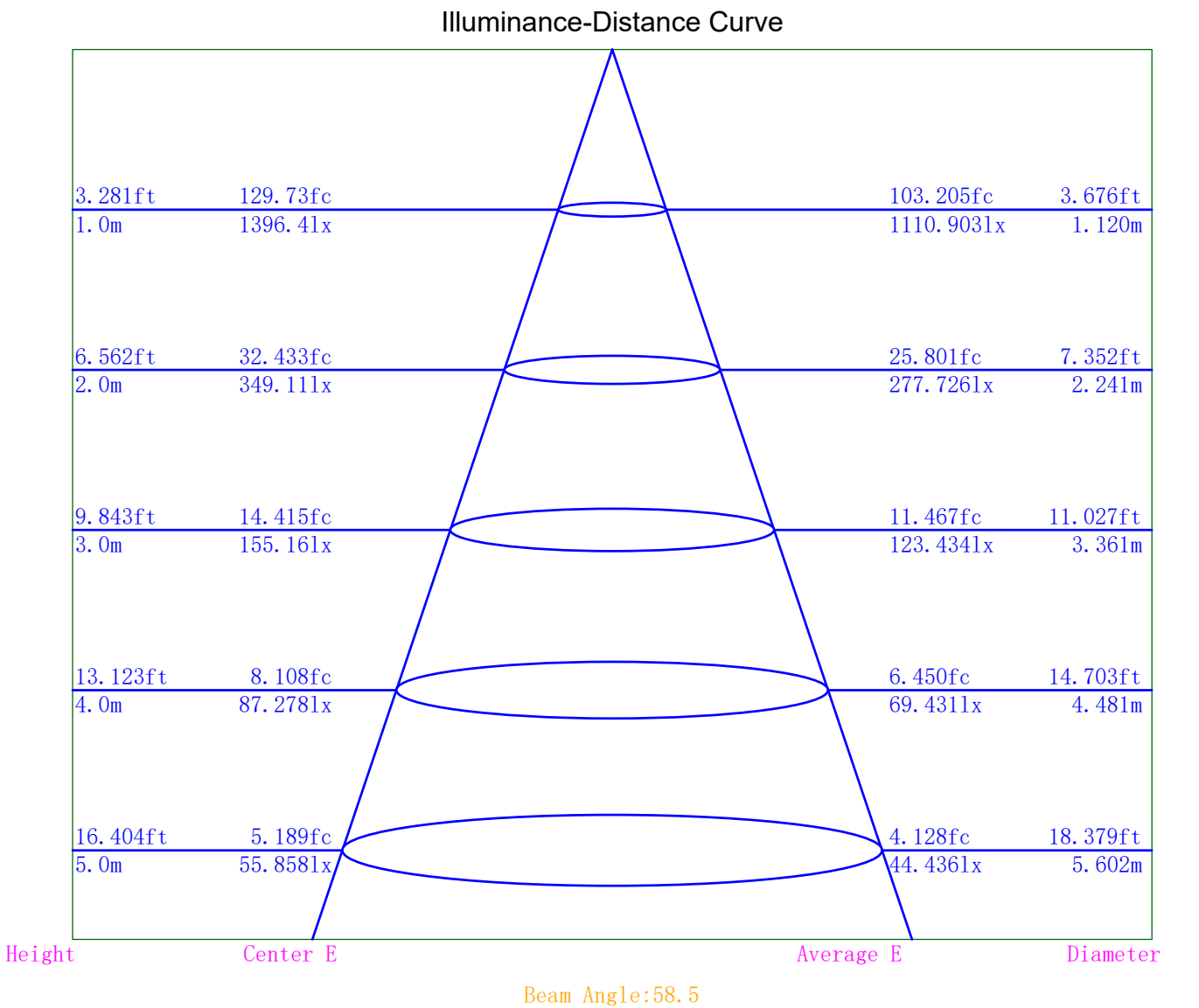


Space Plane Maximum Illuminance and @Angle:1396.45lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:1396.449cd,0deg



Illuminance-Distance Diagram

Lum. Name: PD08-15-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: 2022/09/12



Indoor Luminance Limiting Curves

Lum. Name: PD08-15-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: 2022/09/12

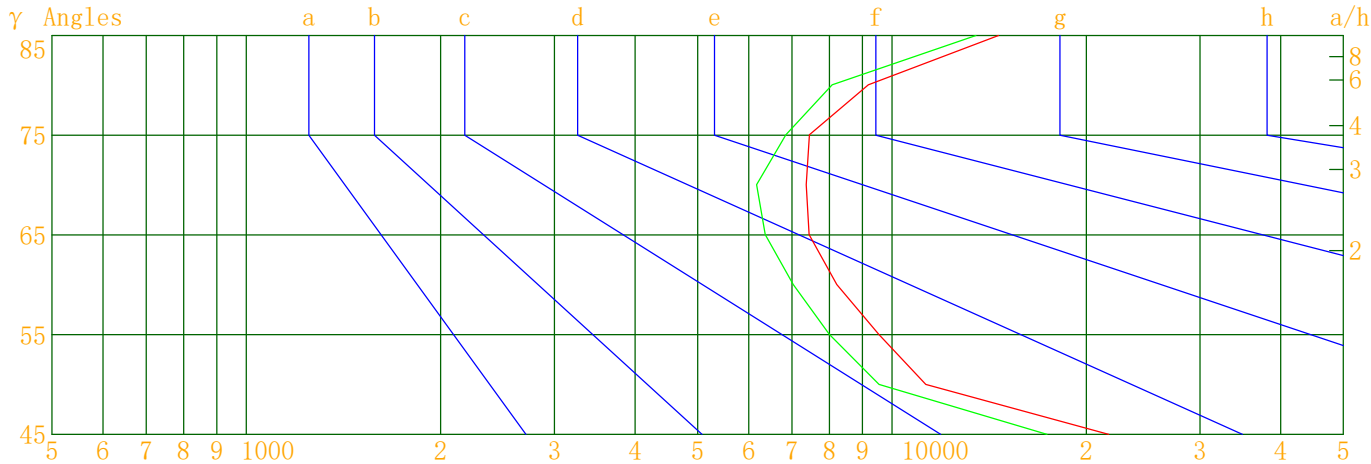
Glare Grade Table

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	21647	11280	9545	8214	7441	7367	7452	9189	14618
C90	17382	9551	8000	7033	6364	6169	6851	8078	13488

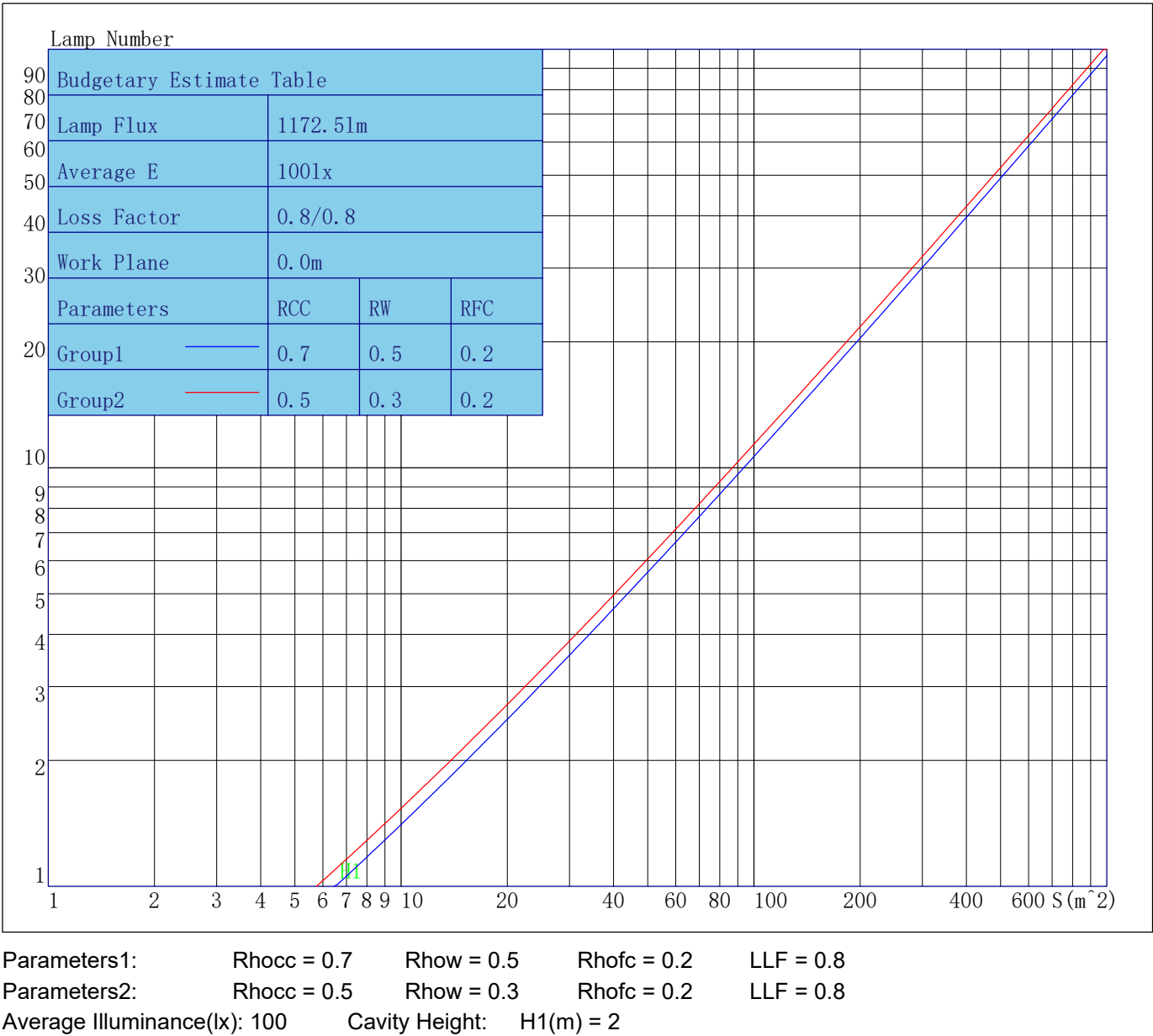
Luminance Limiting Curve



Luminous Size: Length(m)=0.055 Width(m)=0.055 Height(m)=0.000 Area(m^2)=0.003025  
Luminous Type: Without Luminous Side  
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: PD08-15-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: 2022/09/12



Indoor Coefficient of Utilization Table

Lum. Name: PD08-15-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: 2022/09/12

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	110	110	110	105	105	105	100	100	100	98
1	113	110	108	105	110	108	105	103	103	101	100	99	98	97	95	94	93	91
2	107	102	98	95	105	101	97	94	97	94	91	94	91	89	91	89	87	85
3	102	96	91	87	100	94	90	86	91	87	84	88	85	83	86	83	81	80
4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	78	76	74
5	92	84	78	74	90	83	78	74	81	76	73	79	75	72	77	74	71	70
6	88	79	73	69	86	78	73	69	76	72	68	75	71	67	73	70	67	65
7	84	74	69	64	82	74	68	64	72	67	64	71	66	63	70	66	63	61
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	54
10	73	63	57	54	71	63	57	53	62	57	53	61	56	53	60	56	53	51

Unified Glare Rating Table

Lum. Name: PD08-15-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: 2022/09/12

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	Vewed crosswise					Vewed endwise				
X=2H    Y=2H	20.5	21.5	20.9	21.8	22.2	18.4	19.4	18.8	19.7	20.1
	20.4	21.3	20.9	21.7	22.1	18.4	19.3	18.8	19.6	20.1
	20.4	21.2	20.9	21.6	22.1	18.4	19.2	18.9	19.6	20.1
	20.4	21.2	20.9	21.6	22.1	18.5	19.3	19.0	19.7	20.1
	20.5	21.2	20.9	21.6	22.1	18.6	19.3	19.0	19.7	20.2
	20.5	21.2	21.0	21.6	22.1	18.7	19.3	19.1	19.8	20.3
X=4H    Y=2H	20.2	21.1	20.7	21.5	21.9	18.2	19.0	18.6	19.4	19.8
	20.2	20.9	20.7	21.4	21.8	18.3	18.9	18.7	19.4	19.8
	20.3	20.9	20.7	21.3	21.8	18.4	19.0	18.8	19.4	19.9
	20.4	20.9	20.9	21.4	21.9	18.6	19.1	19.1	19.6	20.1
	20.4	21.0	21.0	21.4	22.0	18.7	19.2	19.2	19.7	20.2
	20.6	21.0	21.1	21.6	22.1	18.9	19.3	19.4	19.9	20.4
X=8H    Y=4H	20.2	20.7	20.7	21.2	21.7	18.3	18.8	18.8	19.3	19.8
	20.4	20.8	20.9	21.3	21.9	18.6	19.0	19.2	19.6	20.2
	20.5	20.9	21.1	21.5	22.0	18.9	19.2	19.4	19.8	20.3
	20.8	21.1	21.3	21.7	22.3	19.2	19.6	19.8	20.1	20.7
X=12H    Y=4H	20.1	20.6	20.7	21.1	21.6	18.3	18.7	18.8	19.3	19.8
	20.4	20.7	20.9	21.2	21.8	18.6	19.0	19.2	19.5	20.1
	20.6	20.9	21.1	21.4	22.1	19.0	19.3	19.5	19.8	20.4
Variations with the objerver position at spacings										
S=1.0H	0.1/-0.1					0.2/-0.2				
S=1.5H	0.3/-0.3					0.3/-0.3				
S=2.0H	0.3/-0.4					0.3/-0.3				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	0.8					1.1				

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

IES Indoor Report

Photometric Filename:PD08-15-XX-01 3000K RA90 60D.IE

S

Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
γ 0.0	1396.45	1396.45	1396.45	1396.45
γ 5.0	1345.89	1322.51	1337.24	1369.48
γ 10.0	1278.69	1251.69	1262.86	1307.57
γ 15.0	1227.21	1161.24	1188.07	1246.43
γ 20.0	1139.66	1007.57	1060.46	1173.03
γ 25.0	964.45	790.08	869.95	1042.55
γ 30.0	716.31	541.43	608.54	820.81
γ 35.0	321.89	183.24	255.07	446.17
γ 40.0	87.61	65.09	69.14	109.48
γ 45.0	46.30	37.18	35.26	46.90
γ 50.0	21.93	18.57	13.41	15.78
γ 55.0	16.56	13.88	10.93	11.67
γ 60.0	12.42	10.64	9.14	9.81
γ 65.0	9.51	8.14	8.32	8.68
γ 70.0	7.62	6.38	7.20	7.49
γ 75.0	5.83	5.36	5.73	6.56
γ 80.0	4.83	4.24	4.75	5.20
γ 85.0	3.85	3.56	4.05	4.92
γ 90.0	3.23	2.67	2.91	3.80
γ 95.0	3.09	2.33	2.56	3.28
γ 100.0	2.39	2.17	2.58	2.39
γ 105.0	2.37	2.15	1.92	2.41
γ 110.0	1.93	1.91	2.02	2.17
γ 115.0	2.08	1.98	2.08	2.24
γ 120.0	2.30	2.48	2.58	2.55
γ 125.0	2.93	2.78	2.95	2.81
γ 130.0	3.53	3.58	3.84	3.31
γ 135.0	4.34	4.12	4.35	3.99
γ 140.0	4.82	5.00	5.20	4.77
γ 145.0	5.80	5.86	5.97	5.57
γ 150.0	6.23	6.70	6.77	6.32
γ 155.0	7.10	6.91	7.39	6.78
γ 160.0	7.55	7.53	7.54	7.09
γ 165.0	8.32	8.07	8.56	7.72
γ 170.0	8.67	8.38	8.71	8.16
γ 175.0	8.98	9.06	8.64	8.61
γ 180.0	8.87	8.87	8.87	8.87