

IES Indoor Report

Photometric Filename:24W LED OYSTER 吸顶灯3000K.IES

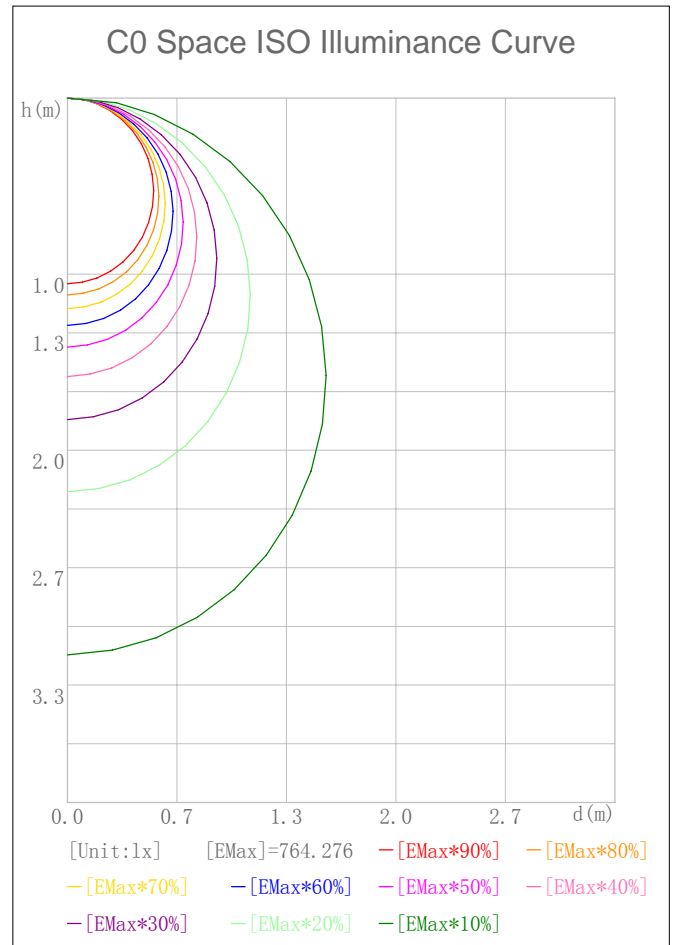
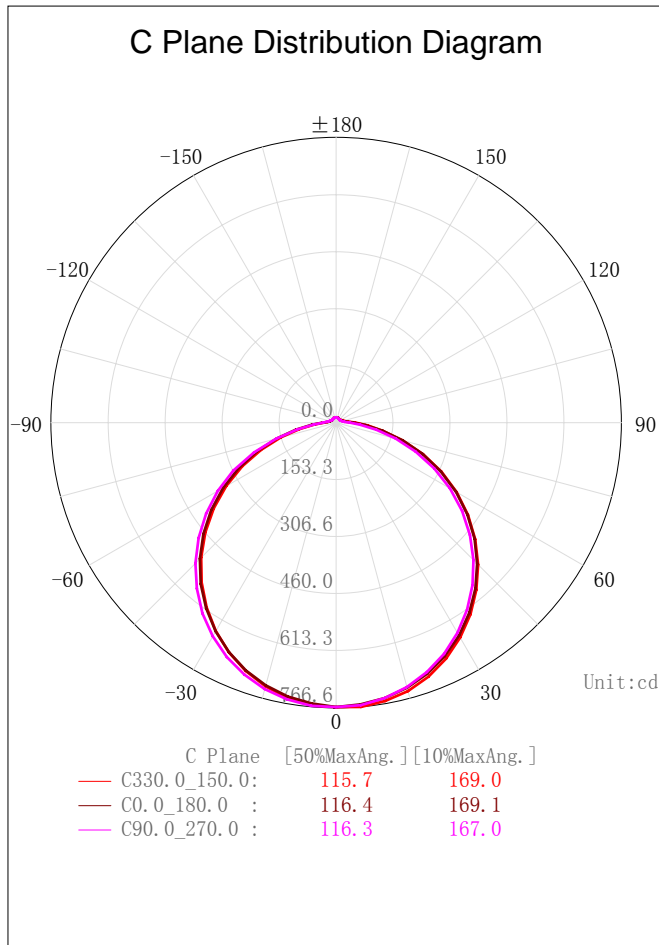
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 24W LED OYSTER 吸顶灯3000K		Lum. Catalog:	Test ID: 01
Lamp Name:		Lamp Catalog: 灯具	Test Date: 2017/02/15
Manufacture: 诺明光电		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: 诺明实验室		Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.000m*0.000m*0.000m		Lum. Area (m2): 0.000	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=5.0	Temp. (°C): 25	Humidity(%): 50.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2800.000	Luminary Flux(lm): 2426.332	Field Angle(10%Imax): 169.0(°)	
Rated Power(W):	Luminary Efficiency: 86.65%	Down Lumens&Percent: 2322.359lm 95.71%	
Rated Voltage(V):	Luminary EER(lm/W): 96.821	Up Lumens&Percent: 103.973lm 4.29%	
Tested Power(W): 25.060	Max. Candela(cd): 766.595	S/MH: C0_a180=1.273 C90_270=1.279	
Lamps' Inside: 1	Max Cand@Ang. (°): C=330.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.0, 0.121, 0.936	Beam Angle(50%Imax): 115.7(°)	ErP φ use(120°): 1764.273lm	
Lamp Size (W*L*H): 0.000m*0.000m*0.000m	Left=-56.4°, Right=59.2°	IRF(%): 104.669	



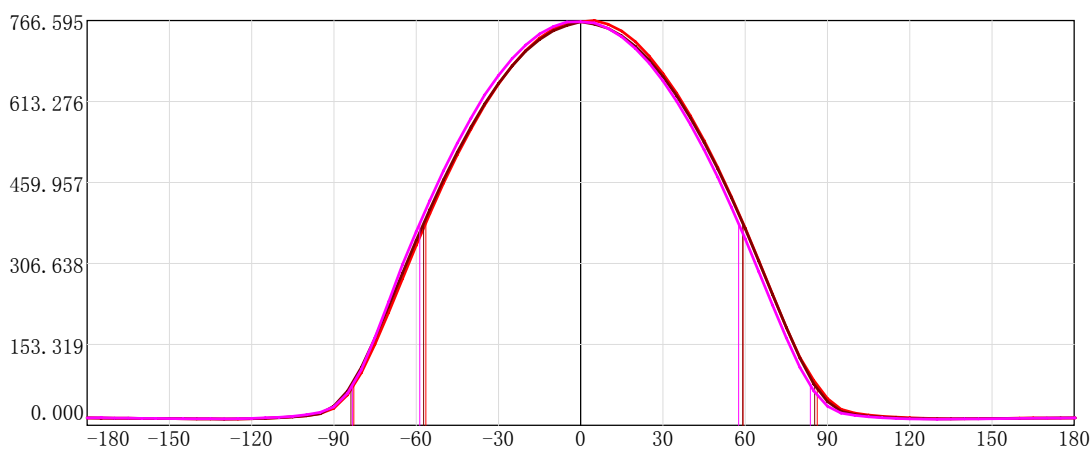
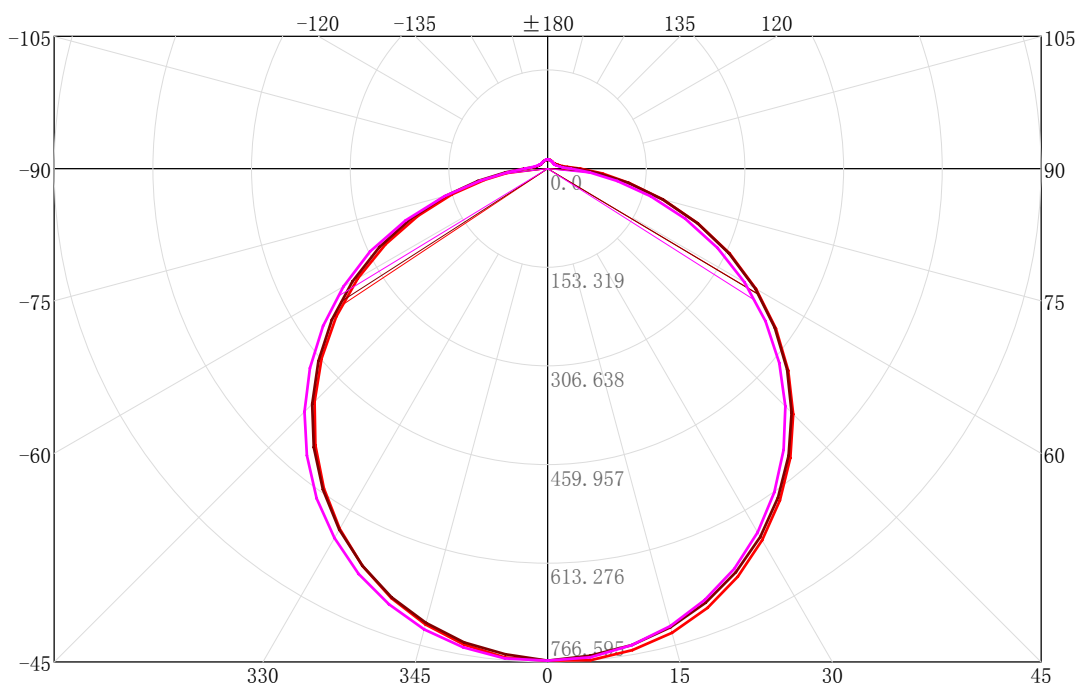
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2D Plane Light Intensity Distribution Curve

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine: GON-2000	Test Date: 2017/02/15

C Plane Distribution Diagram

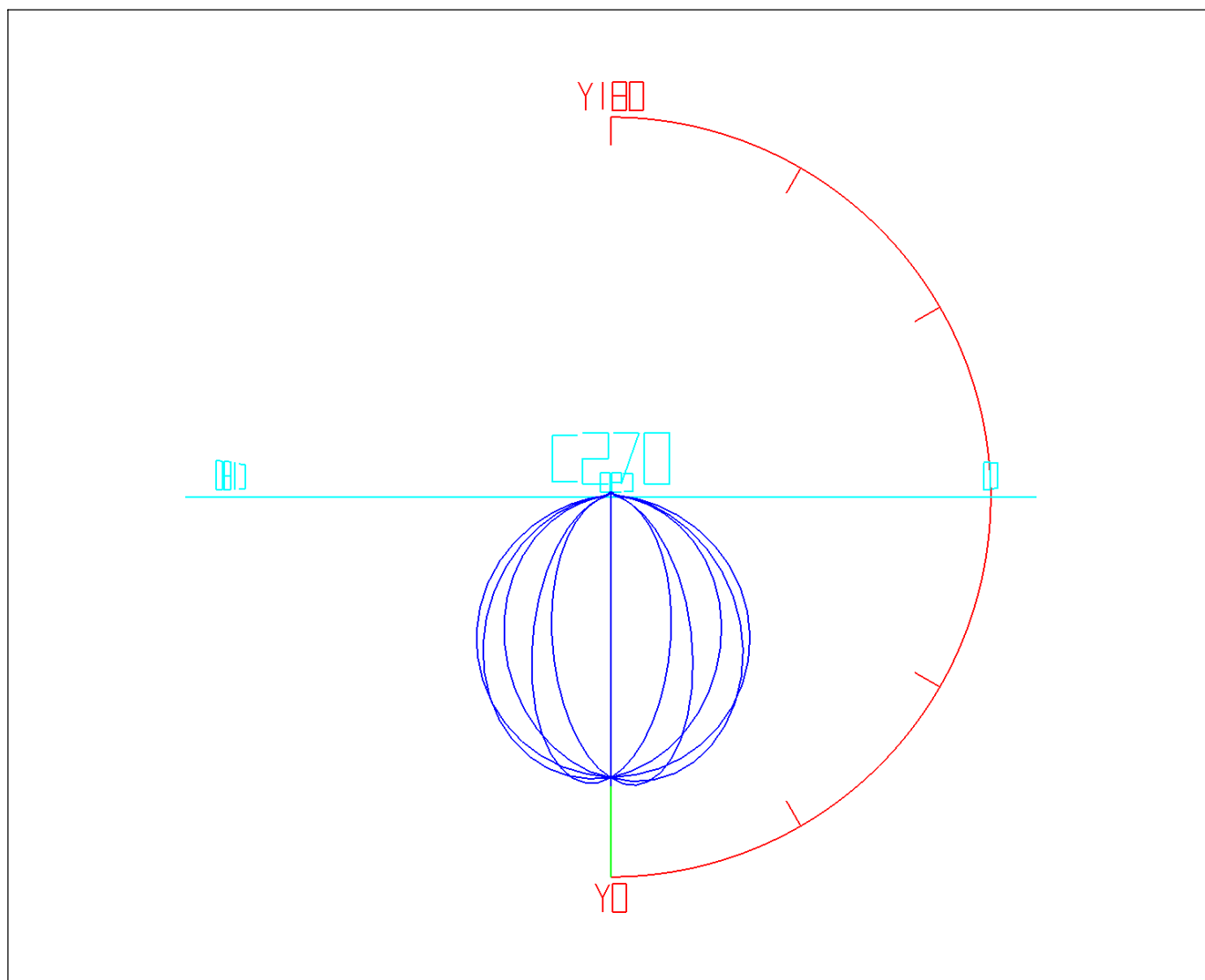


C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
C330.0_150.0	115.7	169.0	
C0.0_180.0	116.4	169.1	
C90.0_270.0	116.3	167.0	

3D Light Intensity Distribution Modal

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog: 灯具	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

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	18.24	18.24	0.65	0.65
5.0-10.0	54.17	72.42	1.93	2.59
10.0-15.0	88.38	160.80	3.16	5.74
15.0-20.0	119.78	280.57	4.28	10.02
20.0-25.0	147.36	427.93	5.26	15.28
25.0-30.0	170.24	598.17	6.08	21.36
30.0-35.0	187.70	785.87	6.70	28.07
35.0-40.0	199.15	985.02	7.11	35.18
40.0-45.0	204.21	1189.23	7.29	42.47
45.0-50.0	202.73	1391.95	7.24	49.71
50.0-55.0	194.67	1586.62	6.95	56.67
55.0-60.0	180.23	1766.85	6.44	63.10
60.0-65.0	159.85	1926.71	5.71	68.81
65.0-70.0	134.46	2061.17	4.80	73.61
70.0-75.0	105.71	2166.88	3.78	77.39
75.0-80.0	76.11	2242.99	2.72	80.11
80.0-85.0	49.64	2292.63	1.77	81.88
85.0-90.0	29.73	2322.36	1.06	82.94
90.0-95.0	17.80	2340.16	0.64	83.58
95.0-100.0	12.48	2352.63	0.45	84.02
100.0-105.0	10.17	2362.81	0.36	84.39
105.0-110.0	8.70	2371.50	0.31	84.70
110.0-115.0	7.60	2379.11	0.27	84.97
115.0-120.0	6.75	2385.85	0.24	85.21
120.0-125.0	6.05	2391.90	0.22	85.42
125.0-130.0	5.45	2397.35	0.19	85.62
130.0-135.0	4.99	2402.34	0.18	85.80
135.0-140.0	4.62	2406.96	0.17	85.96
140.0-145.0	4.23	2411.19	0.15	86.11
145.0-150.0	3.80	2414.99	0.14	86.25
150.0-155.0	3.32	2418.31	0.12	86.37
155.0-160.0	2.81	2421.12	0.10	86.47
160.0-165.0	2.24	2423.36	0.08	86.55
165.0-170.0	1.64	2425.00	0.06	86.61
170.0-175.0	1.00	2426.00	0.04	86.64
175.0-180.0	0.34	2426.33	0.01	86.65

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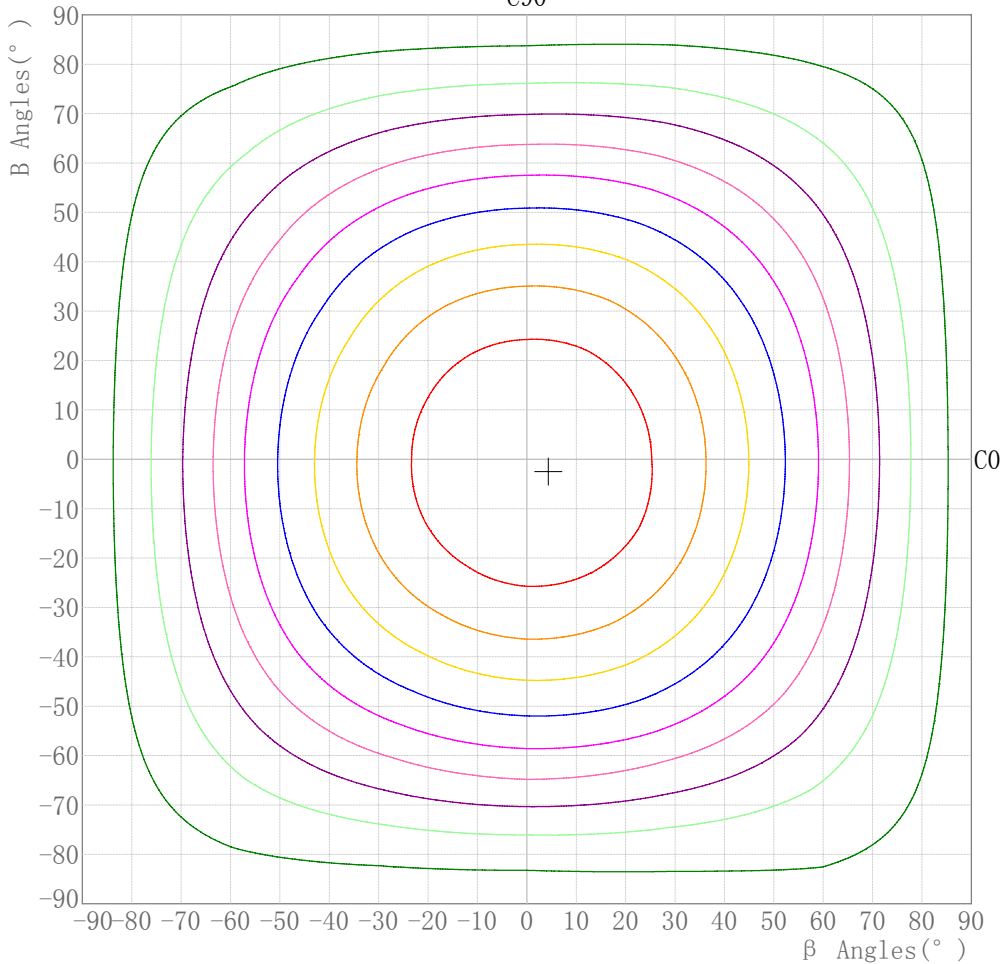
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

ISO Lighting Intensity Curve

C90



Maximum Light Intensity(cd): 766.59

Maximum Cand.@Angle: H=4.3°,V=-2.5°

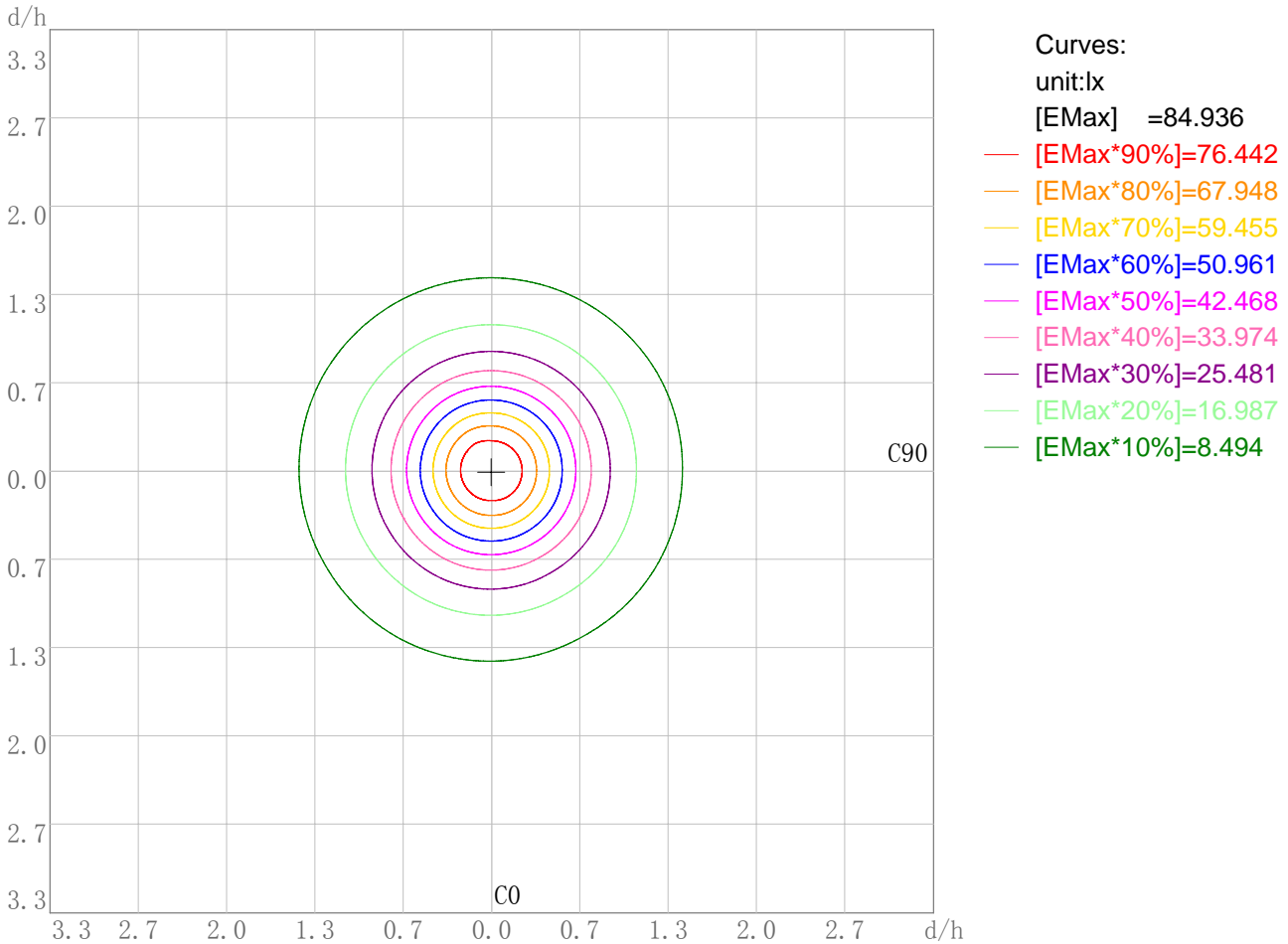
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Plane ISO-Illuminance Diagram

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog: 灯具	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

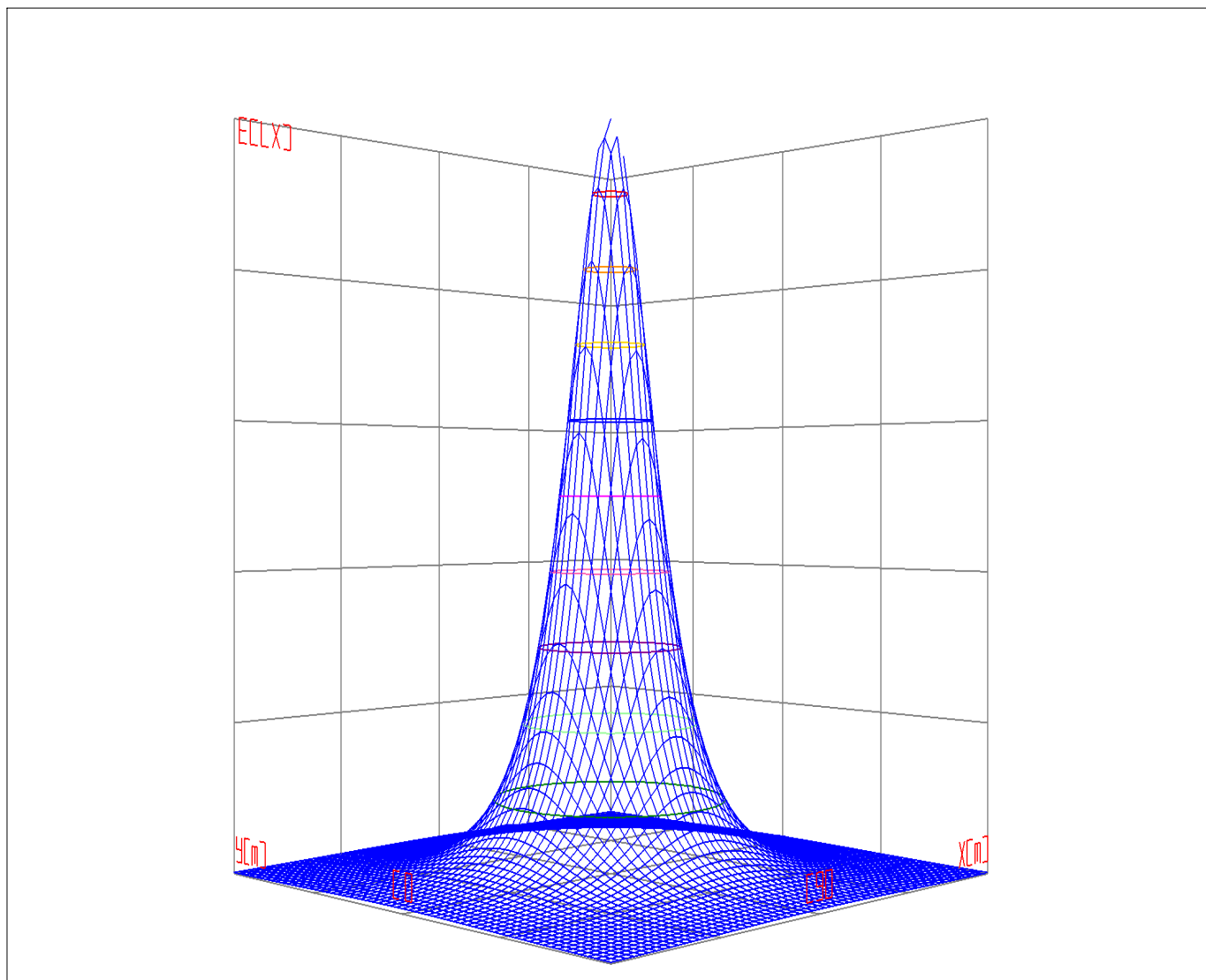
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

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

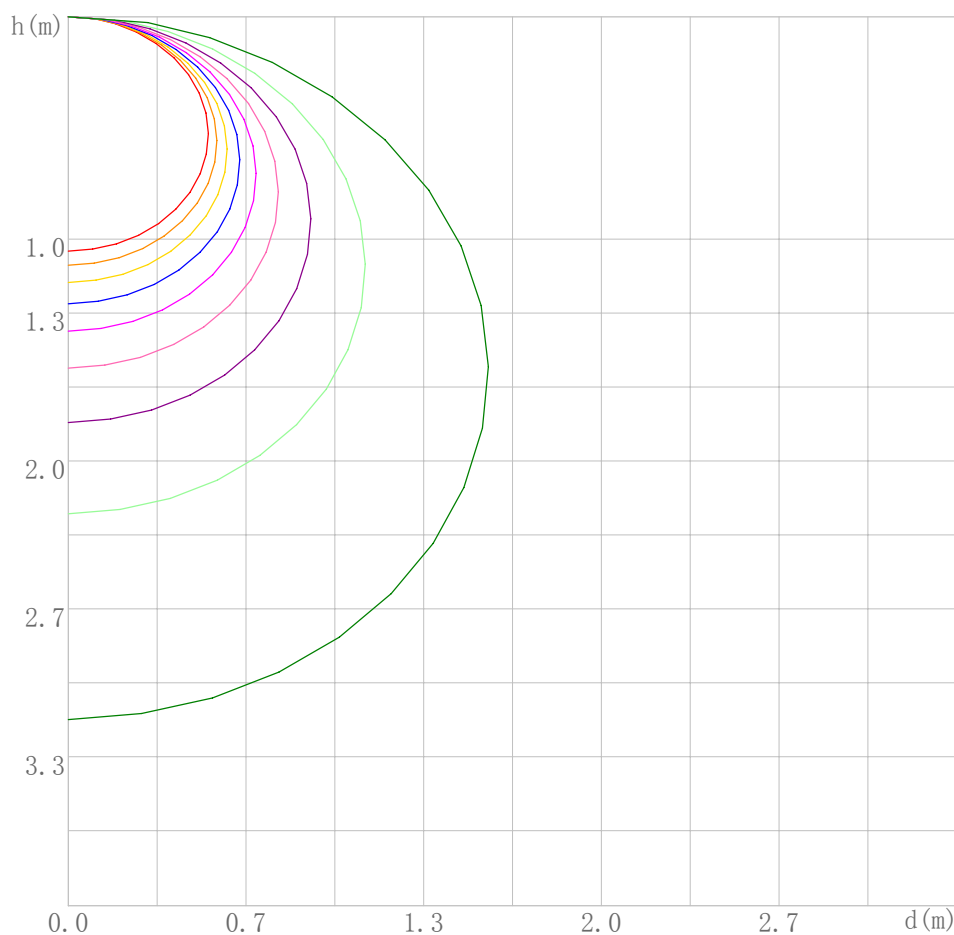
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Space ISO Illuminance Diagram

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

Space ISO Illuminance Curve



Curves:

[Unit: lx]

[EMax] =764.276

— [EMax*90%]=687.848

— [EMax*80%]=611.421

— [EMax*70%]=534.993

— [EMax*60%]=458.566

— [EMax*50%]=382.138

— [EMax*40%]=305.710

— [EMax*30%]=229.283

— [EMax*20%]=152.855

— [EMax*10%]=76.428

Space Plane Maximum Illuminance and @Angle:764.28lx,0.0deg

Plane Maximum Lighting Intensity and @Angle:764.276cd,0deg

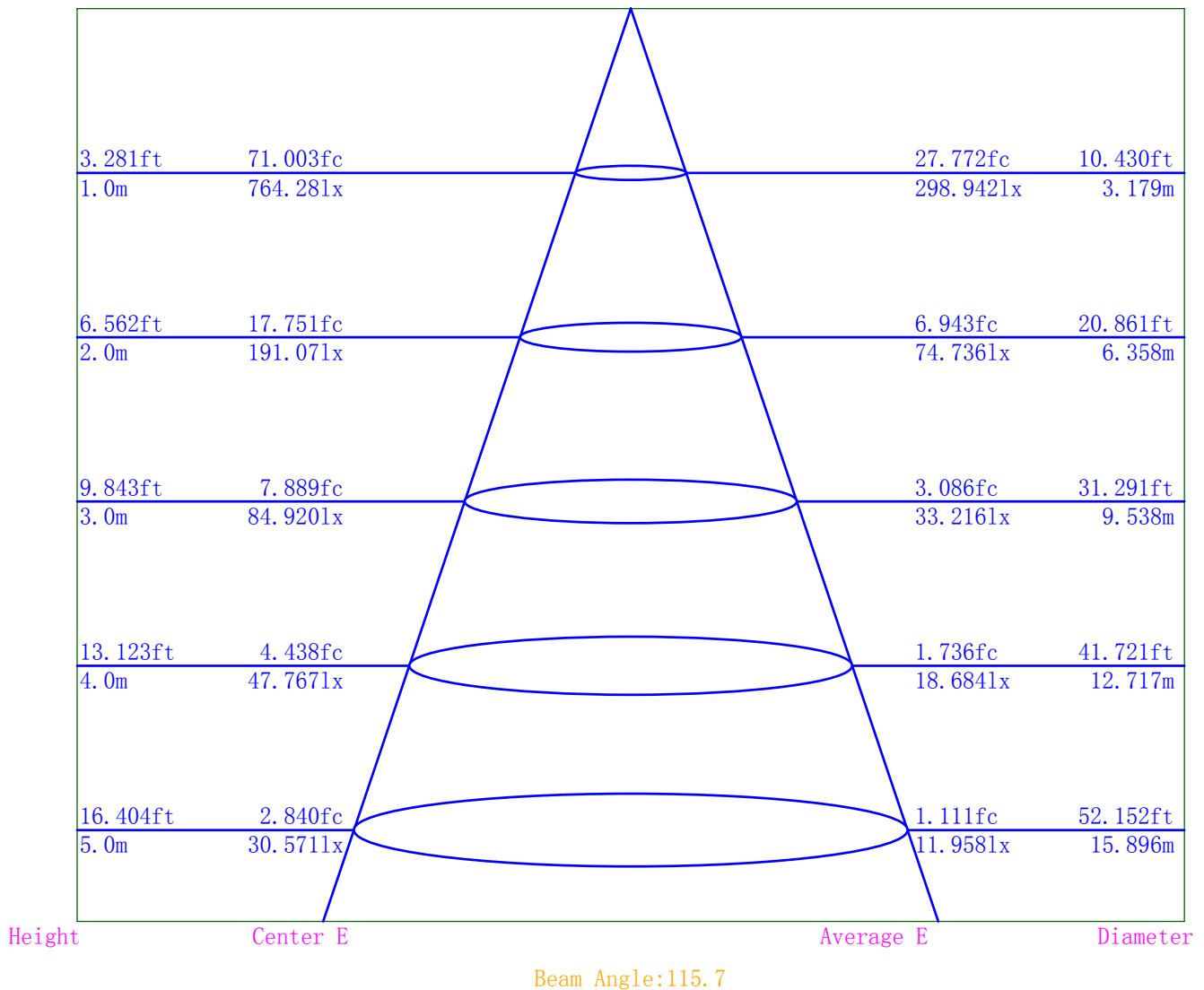
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Illuminance-Distance Diagram

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

Illuminance-Distance Curve



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Indoor Luminance Limiting Curves

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine: GON-2000	Test Date: 2017/02/15

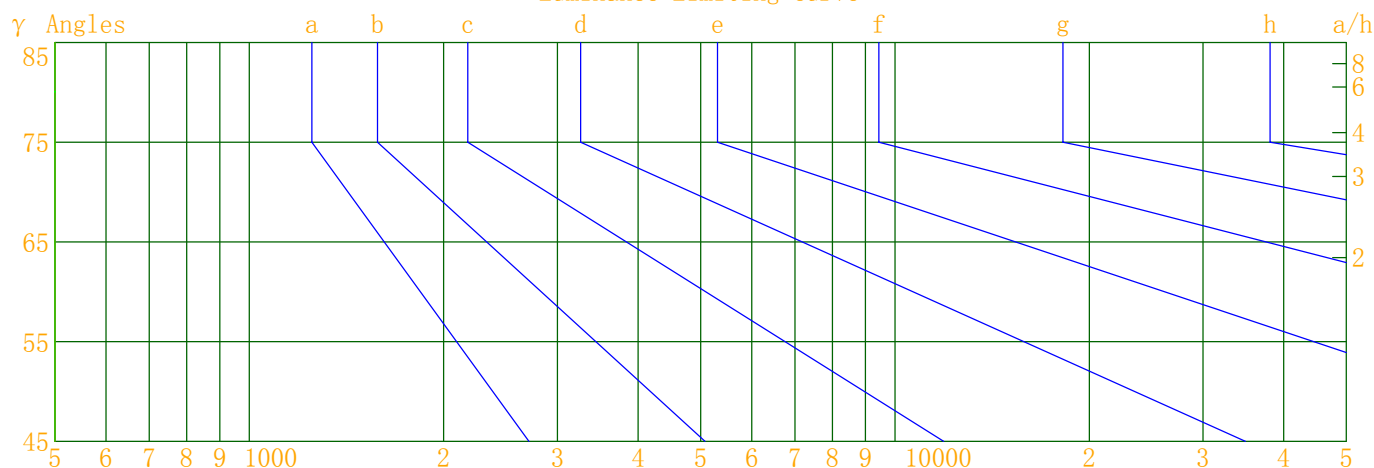
Glare Grade Table

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	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Luminance Limiting Curve



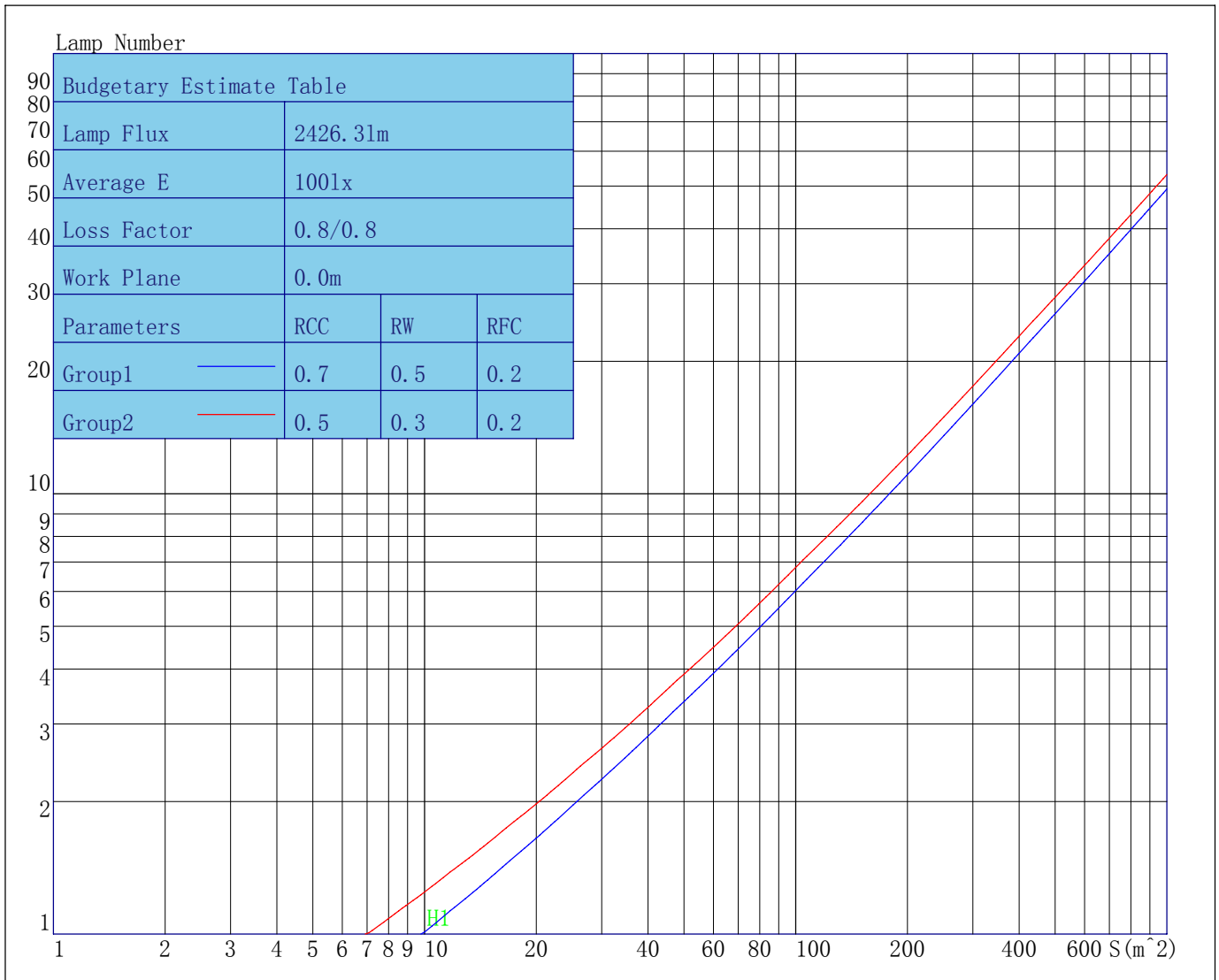
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m²)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
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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: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
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Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

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	102	102	102	102	99	99	99	99	94	94	94	89	89	89	85	85	85	83
1	93	88	84	81	90	86	82	79	82	79	76	78	75	73	74	72	70	68
2	84	77	70	65	81	75	69	64	71	66	62	67	64	60	64	61	58	56
3	76	67	60	54	74	65	59	53	62	56	52	59	54	50	57	52	49	47
4	70	59	51	45	68	58	50	45	55	49	44	53	47	43	50	46	42	40
5	64	53	45	39	62	52	44	39	49	43	38	47	41	37	45	40	36	34
6	59	47	40	34	57	46	39	34	44	38	33	43	37	32	41	36	32	30
7	55	43	35	30	53	42	35	30	40	34	29	39	33	29	37	32	28	26
8	51	39	32	27	49	38	31	26	37	30	26	35	30	26	34	29	25	23
9	48	36	29	24	46	35	28	24	34	28	23	33	27	23	32	26	23	21
10	45	33	26	22	43	32	26	21	31	25	21	30	25	21	29	24	21	19

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Unified Glare Rating Table

Lum. Name: 24W LED OYSTER 吸顶灯3000K	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: 灯具	Test Lab: 诺明实验室
Manufacture: 诺明光电	Test Machine:GON-2000	Test Date: 2017/02/15

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	1.8	3.3	2.3	3.7	4.1	1.8	3.3	2.3	3.7	4.1
Y=3H	1.7	3.0	2.2	3.4	3.9	1.7	3.0	2.2	3.4	3.9
Y=4H	1.7	2.9	2.1	3.3	3.8	1.7	2.9	2.1	3.3	3.8
Y=6H	1.6	2.7	2.1	3.1	3.6	1.6	2.7	2.1	3.1	3.6
Y=8H	1.6	2.6	2.1	3.1	3.6	1.6	2.6	2.1	3.1	3.6
Y=12H	1.5	2.5	2.0	3.0	3.5	1.5	2.5	2.0	3.0	3.5
X=4H Y=2H	1.7	2.9	2.1	3.3	3.8	1.7	2.9	2.1	3.3	3.8
Y=3H	1.6	2.5	2.0	3.0	3.5	1.6	2.5	2.0	3.0	3.5
Y=4H	1.5	2.4	2.0	2.8	3.4	1.5	2.4	2.0	2.8	3.4
Y=6H	1.5	2.2	2.0	2.7	3.3	1.5	2.2	2.0	2.7	3.3
Y=8H	1.4	2.1	2.0	2.6	3.2	1.4	2.1	2.0	2.6	3.2
Y=12H	1.4	2.0	2.0	2.5	3.1	1.4	2.0	2.0	2.5	3.1
X=8H Y=4H	1.4	2.1	2.0	2.6	3.2	1.4	2.1	2.0	2.6	3.2
Y=6H	1.4	1.9	2.0	2.4	3.1	1.4	1.9	2.0	2.4	3.1
Y=8H	1.4	1.8	2.0	2.4	2.9	1.4	1.8	2.0	2.4	2.9
Y=12H	1.4	1.7	2.0	2.2	2.9	1.4	1.7	2.0	2.2	2.9
X=12H Y=4H	1.4	2.0	2.0	2.5	3.1	1.4	2.0	2.0	2.5	3.1
Y=6H	1.4	1.8	2.0	2.3	3.0	1.4	1.8	2.0	2.3	3.0
Y=8H	1.4	1.7	2.0	2.2	2.9	1.4	1.7	2.0	2.2	2.9
Variations with the observer position at spacings										
S=1.0H	0.0/0.0					0.0/0.0				
S=1.5H	0.0/0.0					0.0/0.0				
S=2.0H	0.0/0.0					0.0/0.0				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.0					0.0				

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	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 0.0	764.28	764.28	764.28	764.28	764.28	764.28	764.28	764.28	764.28	764.28	764.28	764.28
γ 5.0	759.65	760.34	761.91	761.92	762.12	762.22	757.31	759.41	761.65	763.83	764.95	766.59
γ 10.0	751.73	751.82	752.40	751.65	751.55	750.69	747.24	749.48	751.78	755.19	757.59	759.49
γ 15.0	737.39	737.13	737.75	735.65	734.72	733.25	730.57	733.75	736.71	741.09	743.41	746.58
γ 20.0	717.60	716.58	716.47	713.21	712.44	710.05	708.57	712.13	714.93	720.26	723.74	726.20
γ 25.0	691.70	690.40	690.10	685.85	684.09	680.84	680.54	684.52	688.14	694.56	697.68	699.27
γ 30.0	660.60	658.54	657.57	652.23	650.41	645.95	647.34	651.68	655.07	662.45	666.61	666.45
γ 35.0	623.77	621.54	620.33	613.73	611.19	606.16	608.59	613.49	617.49	625.76	629.66	629.03
γ 40.0	582.27	579.16	577.73	570.22	567.59	561.20	565.22	570.51	573.06	581.75	587.65	586.48
γ 45.0	536.00	532.46	530.88	522.19	518.76	512.02	517.28	522.86	524.74	534.22	540.99	539.50
γ 50.0	485.55	481.29	479.03	469.58	466.00	458.32	464.97	471.07	472.20	482.02	489.44	488.01
γ 55.0	430.77	425.97	423.84	413.12	409.11	400.86	409.08	415.22	416.10	425.95	433.20	432.89
γ 60.0	372.29	367.07	364.56	353.25	349.11	340.23	349.95	355.72	355.99	366.40	372.24	373.91
γ 65.0	310.71	305.32	303.05	290.98	286.64	277.57	288.37	293.90	293.80	304.39	303.12	312.16
γ 70.0	247.63	242.13	239.87	227.68	223.67	214.27	225.79	231.42	229.66	234.63	237.36	248.46
γ 75.0	185.40	179.81	178.01	165.65	162.60	153.67	165.08	170.49	165.60	166.32	172.21	185.51
γ 80.0	127.38	122.14	120.66	109.72	107.36	99.60	109.97	115.21	106.18	105.60	110.48	128.77
γ 85.0	78.61	74.46	73.92	65.48	63.84	57.81	65.51	69.98	61.88	60.76	71.29	85.44
γ 90.0	45.20	42.15	42.32	36.30	35.90	32.45	36.66	40.02	35.38	35.14	41.56	50.96
γ 95.0	26.57	25.56	27.54	23.23	25.22	22.29	22.12	25.77	24.52	24.84	27.50	30.74
γ 100.0	20.61	20.39	22.15	19.07	20.66	18.63	18.08	20.87	19.83	20.16	21.49	23.29
γ 105.0	17.68	17.52	18.81	16.42	17.86	16.25	16.01	18.19	17.10	17.40	18.15	19.65
γ 110.0	15.77	15.56	16.54	14.60	15.97	14.70	14.64	16.30	15.20	15.57	16.02	17.28
γ 115.0	14.12	14.09	14.94	13.33	14.60	13.53	13.37	14.98	14.40	14.45	14.65	15.68
γ 120.0	13.30	13.19	13.92	12.48	13.70	12.68	12.69	14.02	13.51	13.23	13.68	14.52
γ 125.0	12.81	12.78	13.00	11.99	12.74	12.04	12.28	13.18	12.91	12.69	12.87	13.63
γ 130.0	12.48	12.27	12.28	11.93	12.31	12.04	12.15	12.71	12.06	12.50	12.03	12.92
γ 135.0	12.45	12.25	12.48	12.14	12.45	12.42	12.33	12.65	12.19	12.58	12.19	12.74
γ 140.0	12.61	12.30	12.74	12.39	12.70	12.53	12.42	12.77	12.46	12.71	12.44	12.72
γ 145.0	12.77	12.52	12.98	12.57	13.03	12.75	12.64	12.95	12.70	12.86	12.60	12.95
γ 150.0	13.00	12.80	13.06	12.83	13.31	12.90	12.93	13.10	12.94	13.06	12.89	13.20
γ 155.0	13.25	13.15	13.32	13.09	13.60	13.16	13.10	13.41	13.15	13.21	13.19	13.47
γ 160.0	13.45	13.28	13.55	13.37	13.82	13.43	13.32	13.67	13.41	13.41	13.39	13.84
γ 165.0	13.68	13.60	13.80	13.59	13.83	13.57	13.54	13.83	13.66	13.81	13.57	14.26
γ 170.0	13.90	13.83	13.92	13.84	14.00	13.74	13.73	13.91	13.78	14.09	13.71	13.91
γ 175.0	14.35	13.96	14.13	13.97	14.21	13.95	13.93	13.97	13.94	14.51	13.84	13.84
γ 180.0	14.11	14.11	14.11	14.11	14.11	14.11	14.11	14.11	14.11	14.11	14.11	14.11