

# IES Indoor Report

Photometric Filename:DL08 (客订筒灯).IES

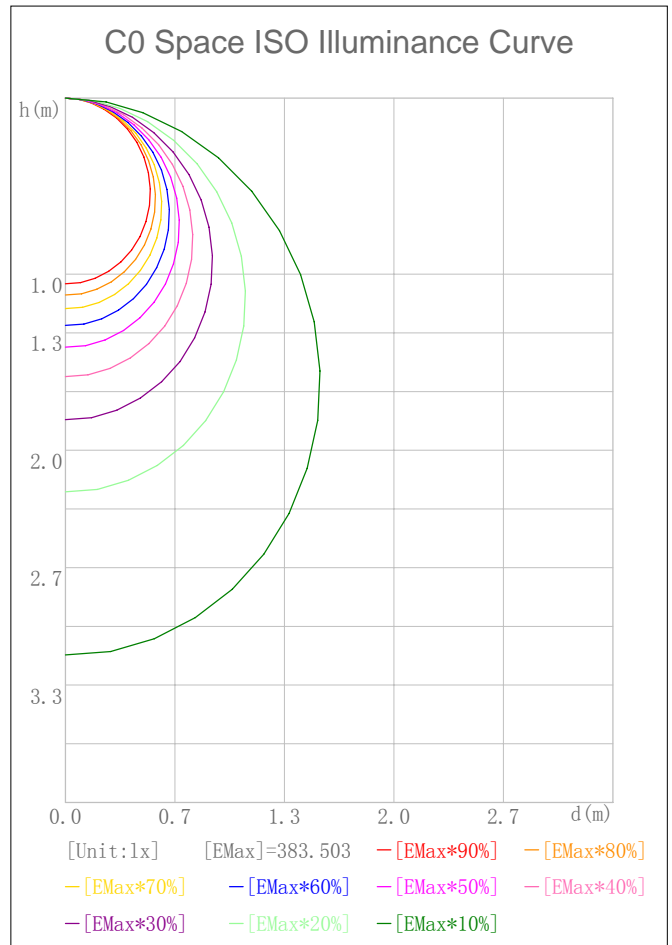
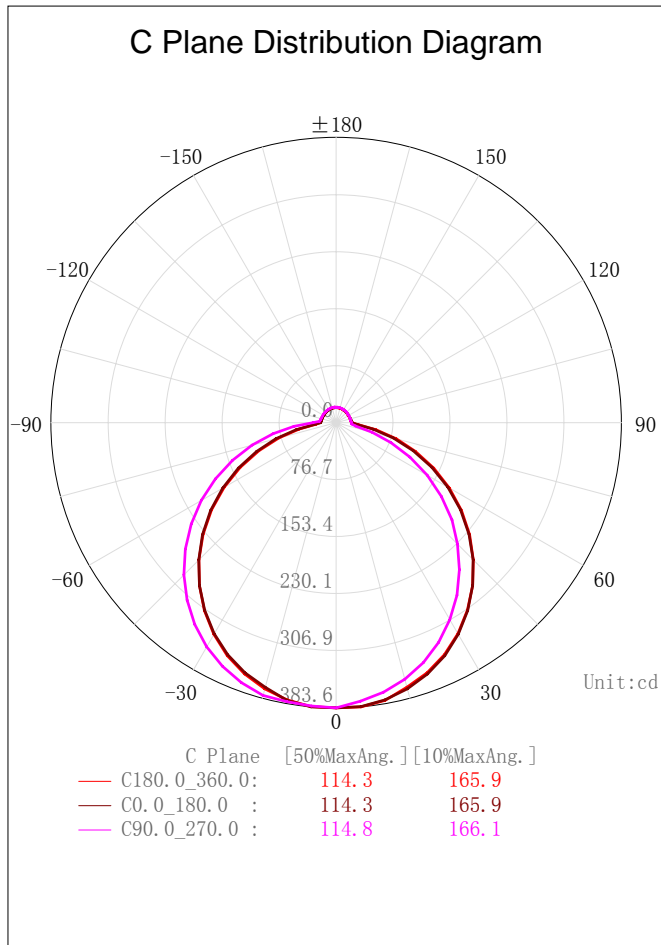
## Indoor Luminaire Photometric Data

### Description Information

Luminaire Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Date: 2017/05/24
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	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=90.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1246.000	Luminaire Flux(lm): 1271.981	Field Angle(10%Imax): 165.9(°)	
Rated Power(W):	Luminaire Efficiency: 102.09%	Down Lumens&Percent: 1145.457lm 90.05%	
Rated Voltage(V):	Luminaire EER(lm/W): 38.639	Up Lumens&Percent: 126.523lm 9.95%	
Tested Power(W): 32.920	Max. Candela(cd): 383.578	S/MH: C0_a180=1.271 C90_270=1.268	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 219.9, 0.200, 0.747	Beam Angle(50%Imax): 114.3(°)	ErP φ use(120°): 862.695lm	
Lamp Size (W*L*H): 0.000m*0.000m*0.000m	Left=-57.0°, Right=57.3°	IRF(%): 107.878	



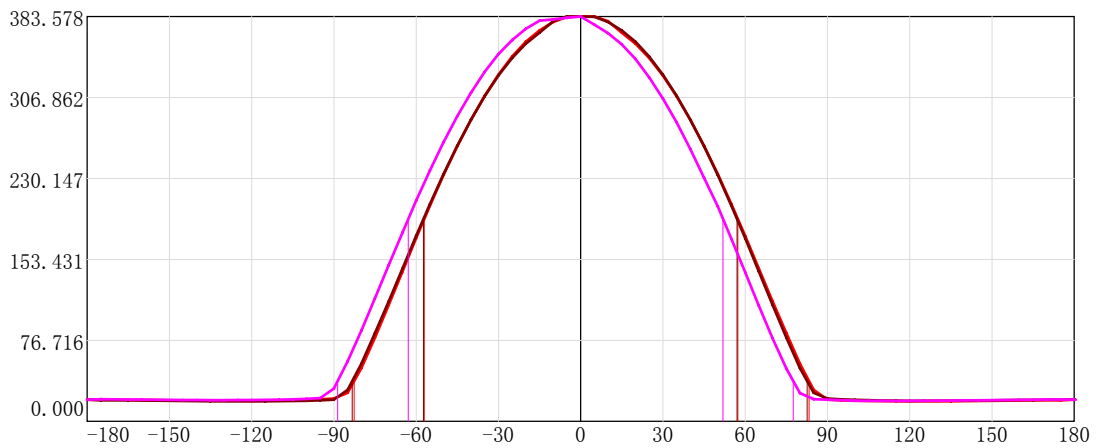
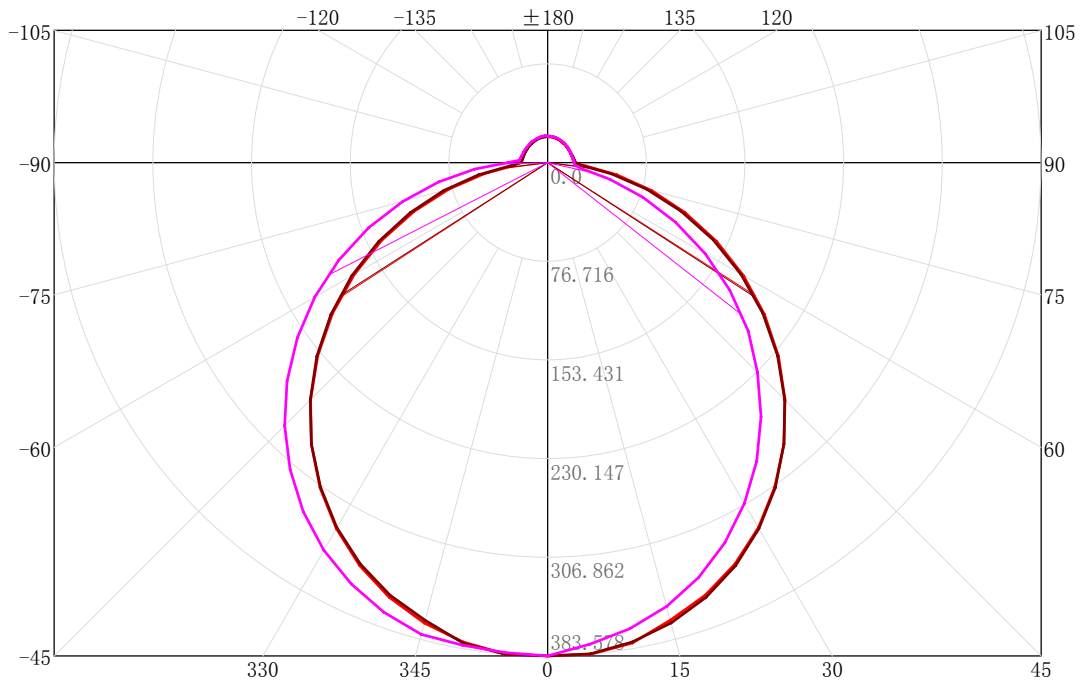
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## 2D Plane Light Intensity Distribution Curve

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

C Plane Distribution Diagram



C Plane	[50%MaxAng.]	[10%MaxAng.]
— C180.0_360.0 :	114.3	165.9
— C0.0_180.0 :	114.3	165.9
— C90.0_270.0 :	114.8	166.1

Unit:cd

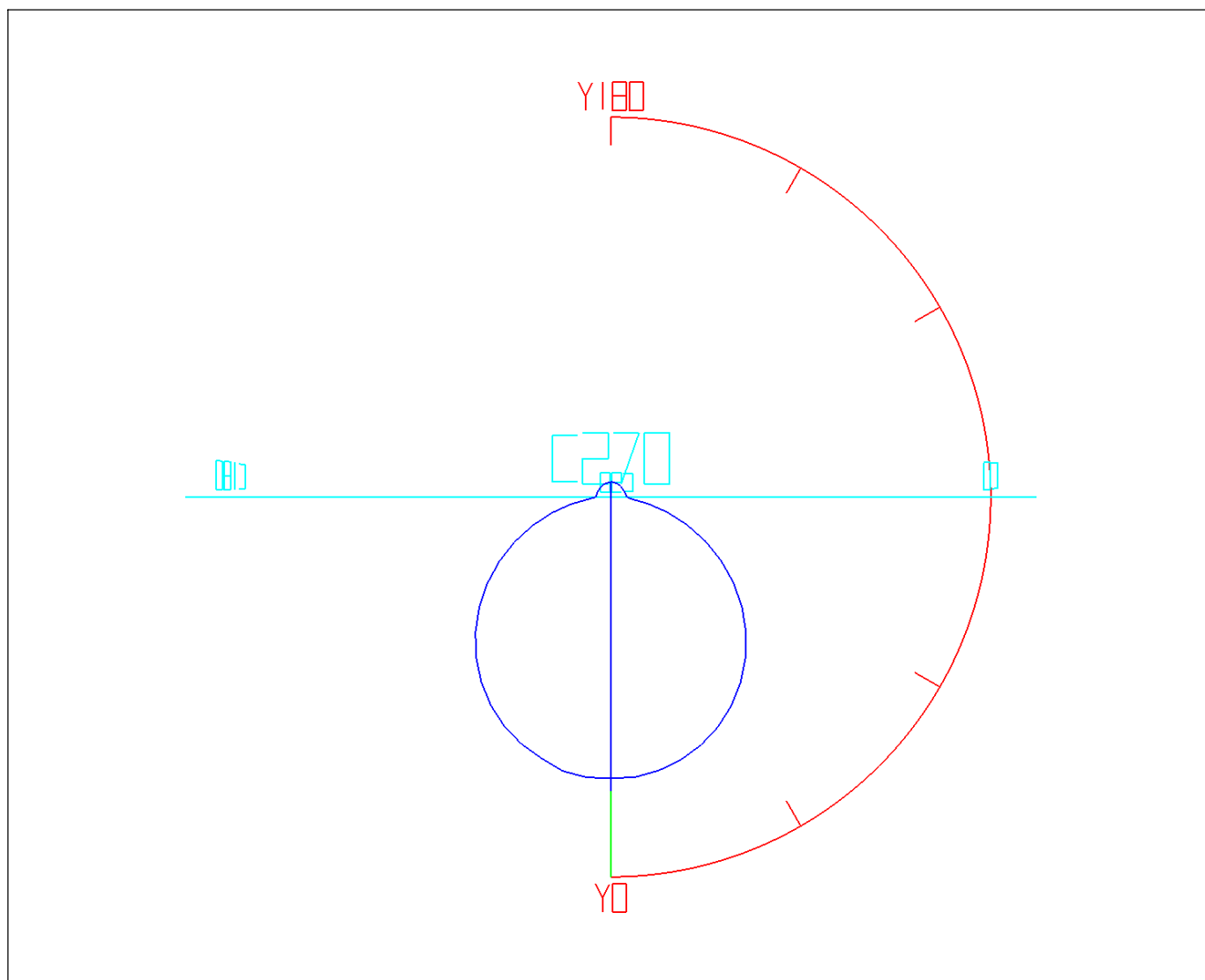
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## 3D Light Intensity Distribution Modal

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

## 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

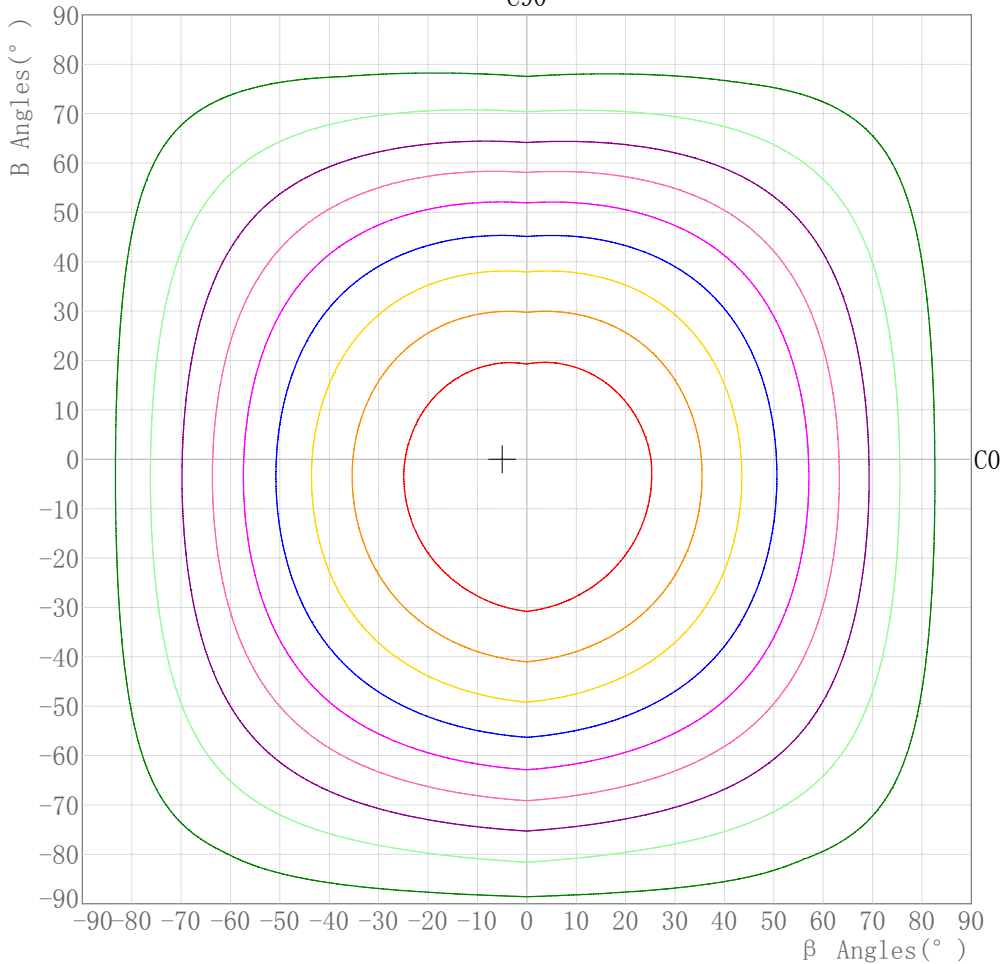
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	9.14	9.14	0.73	0.73
5.0-10.0	27.11	36.25	2.18	2.91
10.0-15.0	44.22	80.47	3.55	6.46
15.0-20.0	59.92	140.39	4.81	11.27
20.0-25.0	73.68	214.07	5.91	17.18
25.0-30.0	85.01	299.08	6.82	24.00
30.0-35.0	93.53	392.61	7.51	31.51
35.0-40.0	98.92	491.53	7.94	39.45
40.0-45.0	101.02	592.54	8.11	47.56
45.0-50.0	99.87	692.42	8.02	55.57
50.0-55.0	95.45	787.86	7.66	63.23
55.0-60.0	87.84	875.70	7.05	70.28
60.0-65.0	77.51	953.21	6.22	76.50
65.0-70.0	64.97	1018.18	5.21	81.72
70.0-75.0	51.02	1069.20	4.09	85.81
75.0-80.0	36.65	1105.85	2.94	88.75
80.0-85.0	23.96	1129.80	1.92	90.67
85.0-90.0	15.65	1145.46	1.26	91.93
90.0-95.0	12.12	1157.58	0.97	92.90
95.0-100.0	11.17	1168.75	0.90	93.80
100.0-105.0	10.79	1179.54	0.87	94.67
105.0-110.0	10.40	1189.94	0.83	95.50
110.0-115.0	9.99	1199.93	0.80	96.30
115.0-120.0	9.55	1209.48	0.77	97.07
120.0-125.0	9.06	1218.54	0.73	97.80
125.0-130.0	8.54	1227.08	0.69	98.48
130.0-135.0	7.95	1235.03	0.64	99.12
135.0-140.0	7.32	1242.35	0.59	99.71
140.0-145.0	6.63	1248.99	0.53	100.24
145.0-150.0	5.89	1254.87	0.47	100.71
150.0-155.0	5.09	1259.97	0.41	101.12
155.0-160.0	4.25	1264.22	0.34	101.46
160.0-165.0	3.36	1267.58	0.27	101.73
165.0-170.0	2.43	1270.01	0.20	101.93
170.0-175.0	1.47	1271.49	0.12	102.05
175.0-180.0	0.49	1271.98	0.04	102.09

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**Rectangle ISO Lighting Intensity Diagram**

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

ISO Lighting Intensity Curve  
 C90



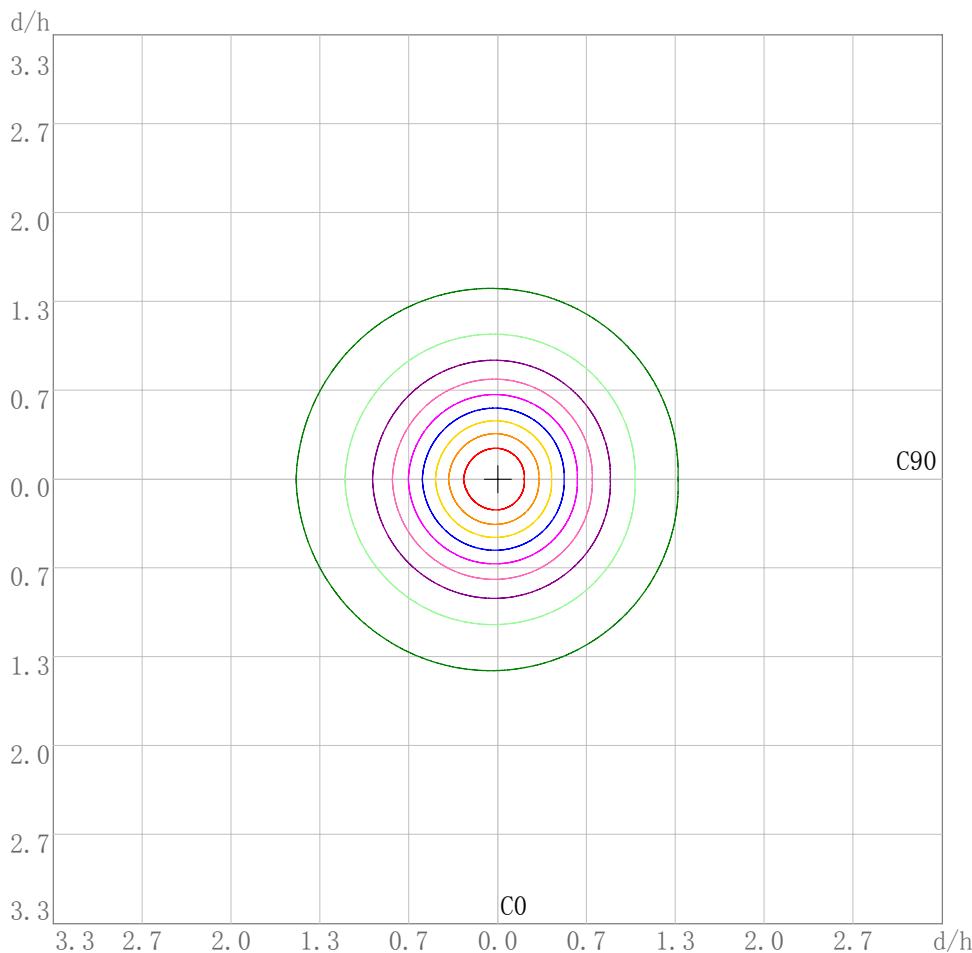
- Curves:  
 [Unit: cd]  
 [IMax] =383.578
- [IMax\*90%]=345.220
  - [IMax\*80%]=306.862
  - [IMax\*70%]=268.505
  - [IMax\*60%]=230.147
  - [IMax\*50%]=191.789
  - [IMax\*40%]=153.431
  - [IMax\*30%]=115.073
  - [IMax\*20%]=76.716
  - [IMax\*10%]=38.358

Maximum Light Intensity(cd): 383.58  
 Maximum Cand.@Angle: H=-5.0°,V=0.0°

**Plane ISO-Illuminance Diagram**

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

Plane ISO-Illuminance Curve

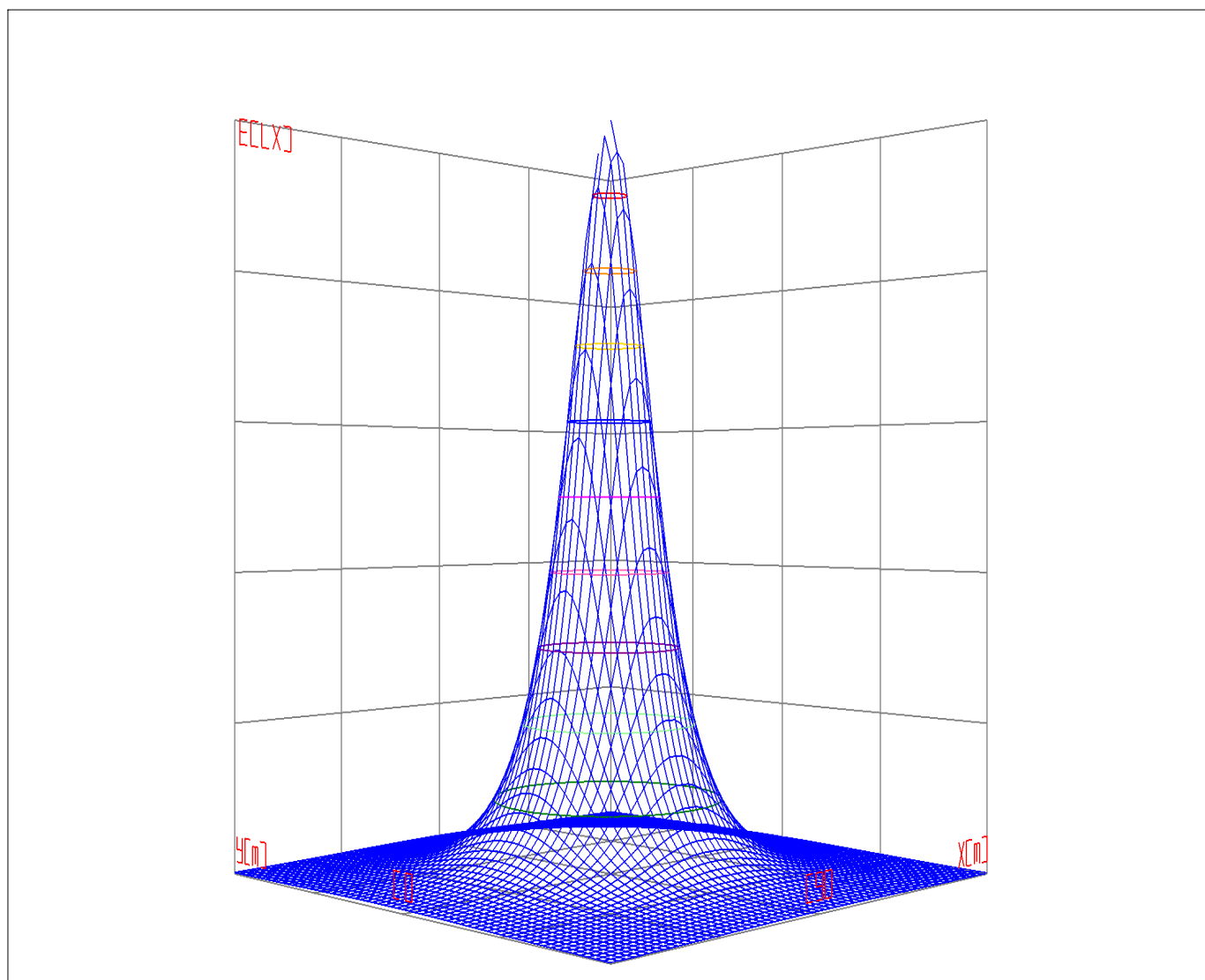


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 42.61  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

### 3D Plane Illuminance Modal

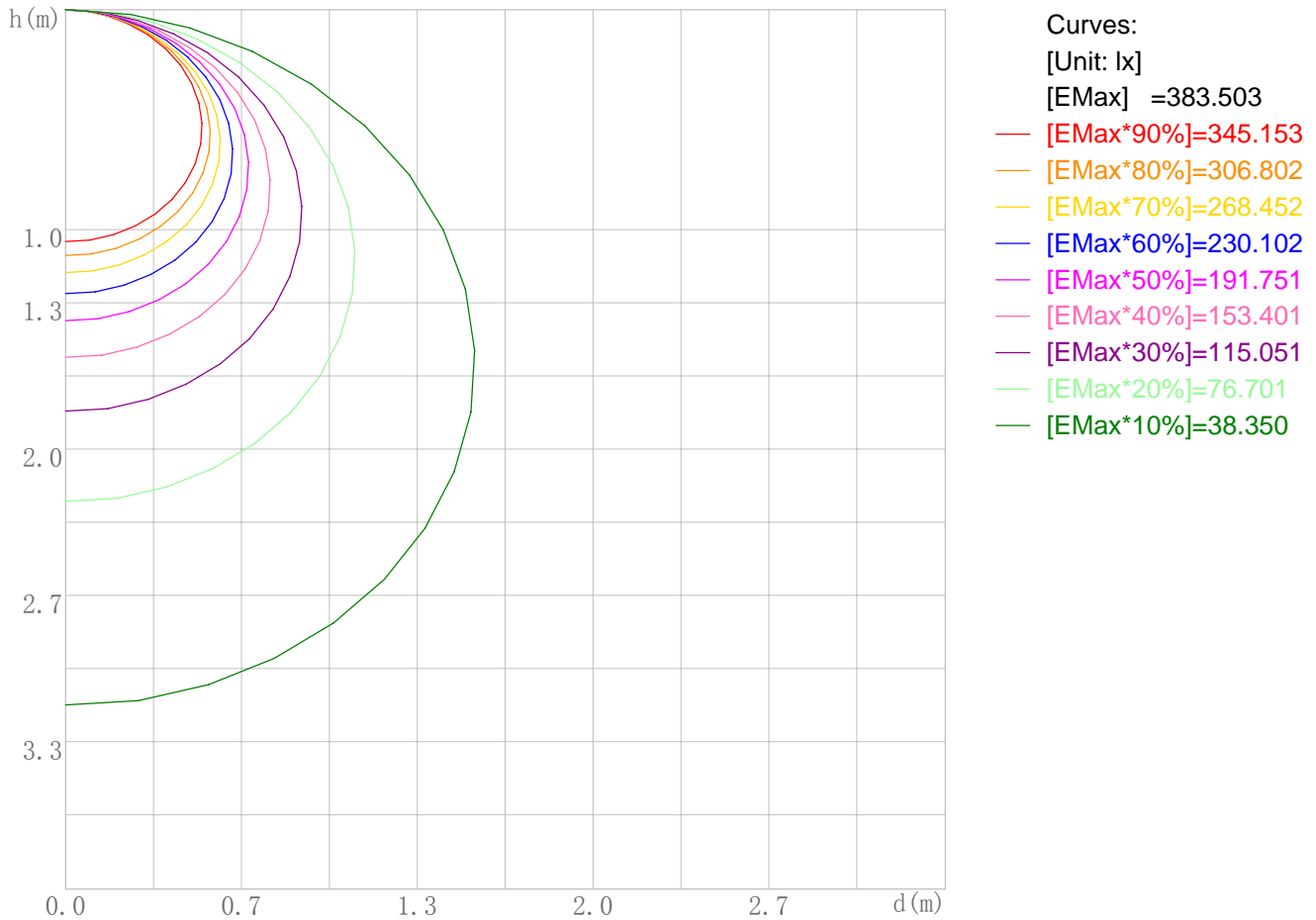


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

**Space ISO Illuminance Diagram**

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:383.50lx,0.0deg  
 Plane Maximum Lighting Intensity and @Angle:383.503cd,0deg

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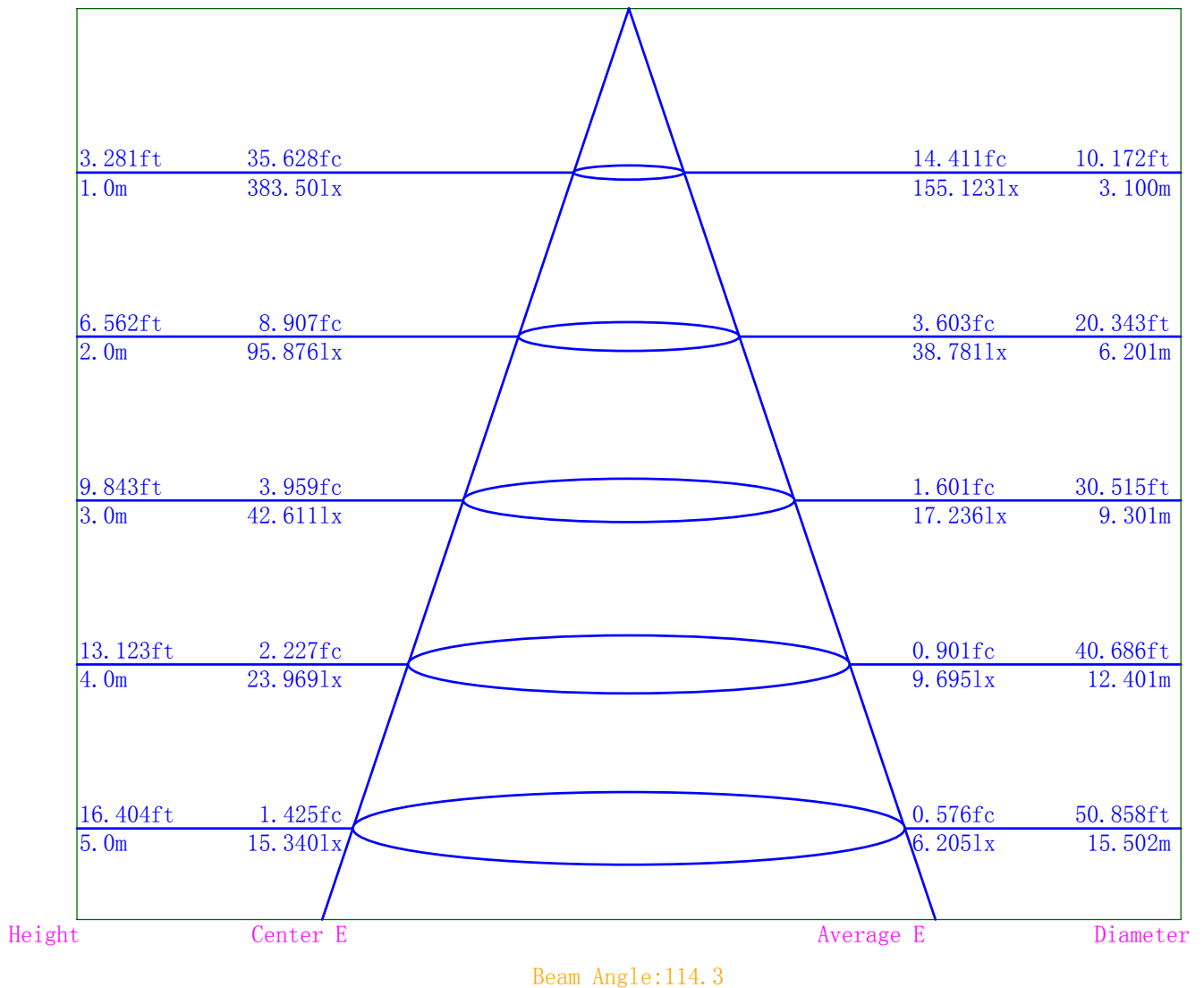
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## Illuminance-Distance Diagram

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

Illuminance-Distance Curve



**Indoor Luminance Limiting Curves**

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

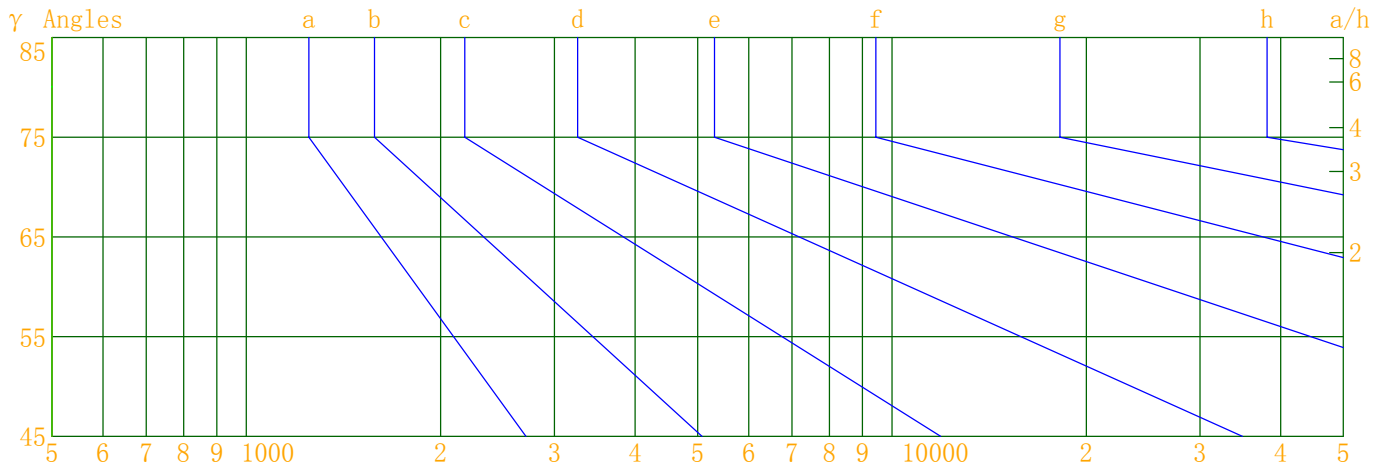
Glare Grade Table

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

Luminance Limiting Curve



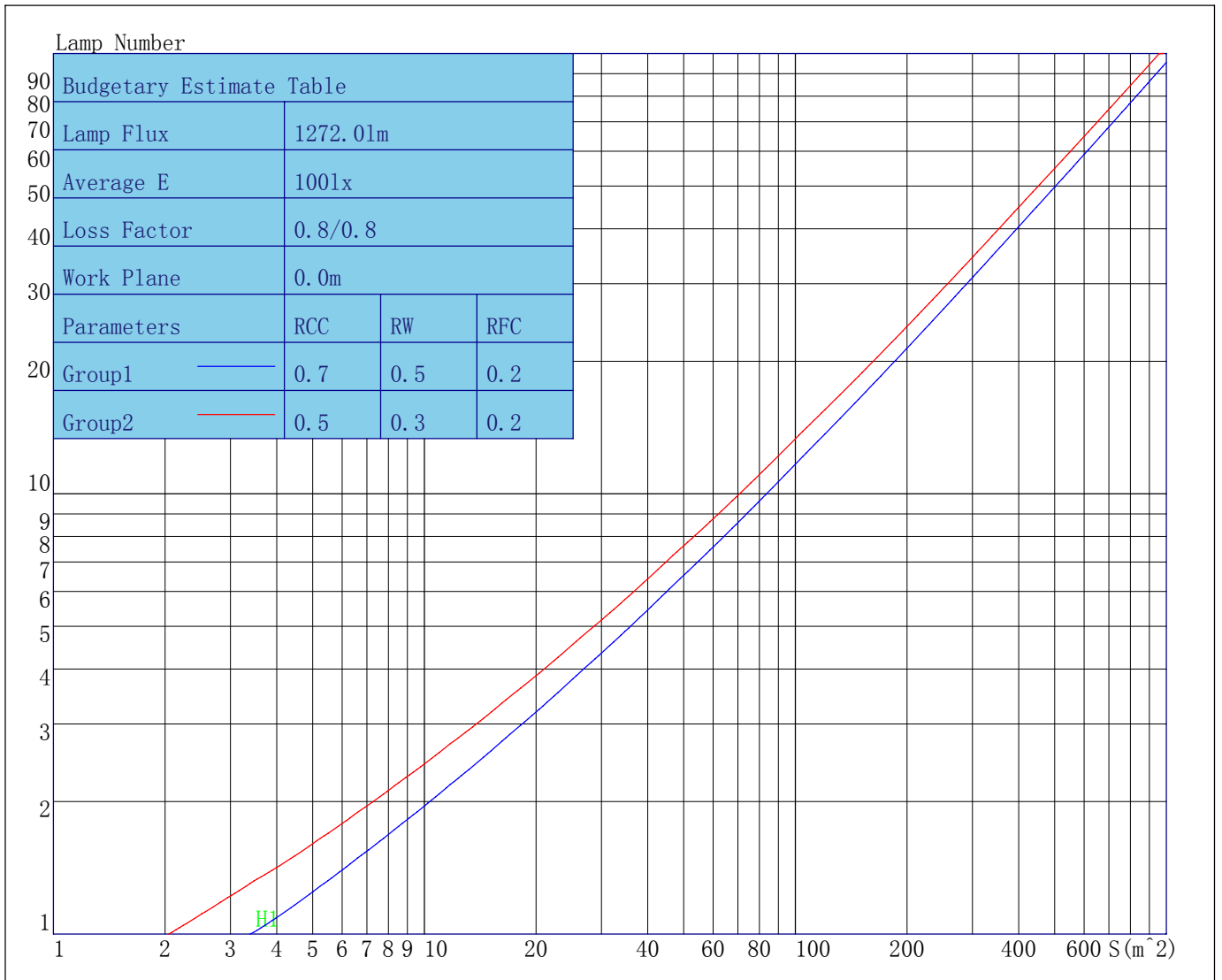
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m<sup>2</sup>)=0.000000  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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## Indoor Budgetary Estimate Table

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24



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: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

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	115	115	115	115	108	108	108	101	101	101	95	95	95	92
1	108	103	98	94	104	100	95	92	93	90	87	88	85	82	82	80	78	75
2	98	89	82	76	94	87	80	74	81	76	71	76	72	68	72	68	65	62
3	89	78	70	63	86	76	68	62	71	65	59	67	62	57	63	59	55	52
4	82	69	60	53	78	67	59	52	63	56	50	60	54	49	56	51	47	44
5	75	62	52	46	72	60	51	45	57	49	43	54	47	42	51	45	41	38
6	69	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	33
7	64	50	41	35	62	49	40	34	46	39	33	44	37	33	42	36	32	29
8	59	46	37	31	57	45	36	31	42	35	30	40	34	29	38	33	28	26
9	56	42	33	28	54	41	33	27	39	32	27	37	31	26	35	30	26	24
10	52	39	31	25	50	38	30	25	36	29	24	34	28	24	33	27	23	21

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## Unified Glare Rating Table

Lum. Name: DL08 (客订筒灯)	Lum. Catalog:	Test ID: 01
Lamp Name:	Lamp Catalog: lamps and lanterns	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/05/24

## 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	-1.3	0.1	-0.8	0.6	1.2	-1.3	0.1	-0.8	0.6	1.2
Y=3H	-1.5	-0.1	-0.9	0.4	1.0	-1.5	-0.1	-0.9	0.4	1.0
Y=4H	-1.5	-0.3	-1.0	0.2	0.9	-1.5	-0.3	-1.0	0.2	0.9
Y=6H	-1.6	-0.4	-1.1	0.1	0.7	-1.6	-0.4	-1.1	0.1	0.7
Y=8H	-1.7	-0.5	-1.1	0.0	0.7	-1.7	-0.5	-1.1	0.0	0.7
Y=12H	-1.7	-0.6	-1.1	-0.1	0.6	-1.7	-0.6	-1.1	-0.1	0.6
X=4H Y=2H	-1.5	-0.3	-1.0	0.2	0.9	-1.5	-0.3	-1.0	0.2	0.9
Y=3H	-1.7	-0.6	-1.1	-0.0	0.6	-1.7	-0.6	-1.1	-0.0	0.6
Y=4H	-1.8	-0.8	-1.2	-0.2	0.5	-1.8	-0.8	-1.2	-0.2	0.5
Y=6H	-1.8	-1.0	-1.2	-0.4	0.3	-1.8	-1.0	-1.2	-0.4	0.3
Y=8H	-1.9	-1.1	-1.3	-0.5	0.2	-1.9	-1.1	-1.3	-0.5	0.2
Y=12H	-1.9	-1.2	-1.3	-0.5	0.2	-1.9	-1.2	-1.3	-0.5	0.2
X=8H Y=4H	-1.9	-1.1	-1.3	-0.5	0.2	-1.9	-1.1	-1.3	-0.5	0.2
Y=6H	-2.0	-1.3	-1.3	-0.6	0.2	-2.0	-1.3	-1.3	-0.6	0.2
Y=8H	-2.0	-1.4	-1.4	-0.7	-0.0	-2.0	-1.4	-1.4	-0.7	-0.0
Y=12H	-2.0	-1.5	-1.4	-0.8	-0.1	-2.0	-1.5	-1.4	-0.8	-0.1
X=12H Y=4H	-1.9	-1.2	-1.3	-0.5	0.2	-1.9	-1.2	-1.3	-0.5	0.2
Y=6H	-2.0	-1.4	-1.3	-0.7	0.0	-2.0	-1.4	-1.3	-0.7	0.0
Y=8H	-2.0	-1.5	-1.4	-0.8	-0.1	-2.0	-1.5	-1.4	-0.8	-0.1
Variations with the objerver 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	C90.0	C180.0	C270.0
γ 0.0	383.50	383.50	383.50	383.50
γ 5.0	383.25	375.84	383.58	382.33
γ 10.0	378.42	367.89	379.18	380.91
γ 15.0	370.45	357.22	368.21	379.64
γ 20.0	359.60	343.19	357.86	371.97
γ 25.0	345.69	326.00	344.31	361.28
γ 30.0	328.44	305.81	327.61	347.95
γ 35.0	308.41	283.24	307.87	331.17
γ 40.0	285.73	257.99	285.74	311.38
γ 45.0	260.55	230.74	261.01	289.14
γ 50.0	233.29	203.54	234.28	264.47
γ 55.0	204.20	172.78	205.72	237.59
γ 60.0	173.57	141.37	175.73	209.08
γ 65.0	142.13	109.63	144.87	178.95
γ 70.0	110.32	78.72	113.64	148.12
γ 75.0	79.46	50.15	83.64	116.76
γ 80.0	50.46	26.83	54.59	85.96
γ 85.0	27.14	21.02	29.86	56.80
γ 90.0	21.66	20.56	20.57	31.08
γ 95.0	20.99	20.16	19.99	22.07
γ 100.0	20.46	19.78	19.60	21.36
γ 105.0	20.11	19.63	19.44	20.91
γ 110.0	19.78	19.48	19.25	20.58
γ 115.0	19.67	19.47	19.18	20.40
γ 120.0	19.48	19.50	19.10	20.31
γ 125.0	19.50	19.57	19.12	20.26
γ 130.0	19.57	19.66	19.13	20.20
γ 135.0	19.68	19.78	19.18	20.23
γ 140.0	19.80	19.95	19.31	20.26
γ 145.0	19.88	20.06	19.42	20.36
γ 150.0	19.97	20.20	19.55	20.47
γ 155.0	20.15	20.37	19.71	20.60
γ 160.0	20.29	20.49	19.87	20.71
γ 165.0	20.36	20.64	19.95	20.83
γ 170.0	20.60	20.74	20.02	20.91
γ 175.0	20.61	20.77	20.07	21.06
γ 180.0	20.57	20.57	20.57	20.57

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