

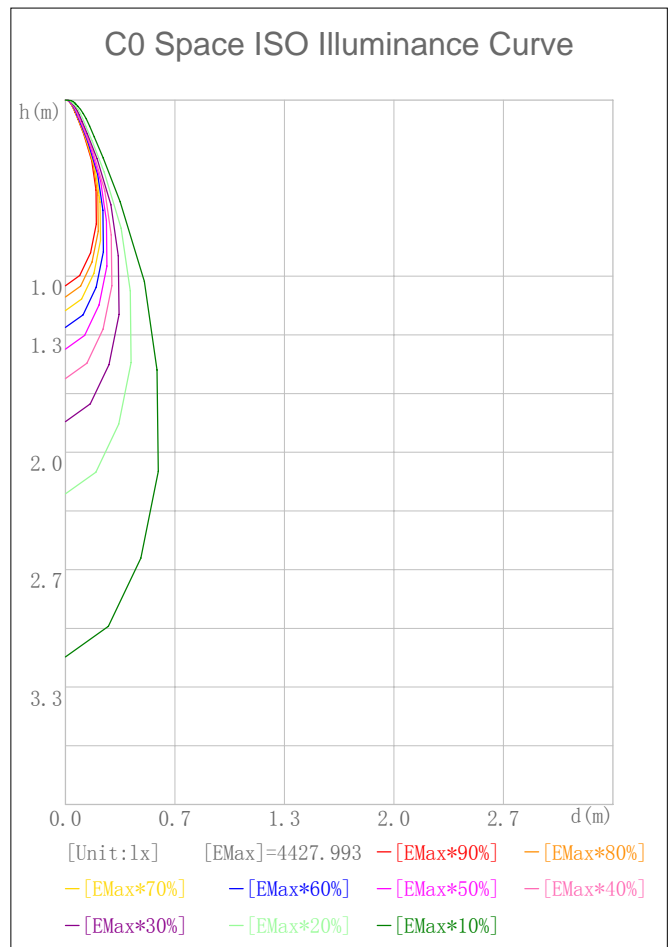
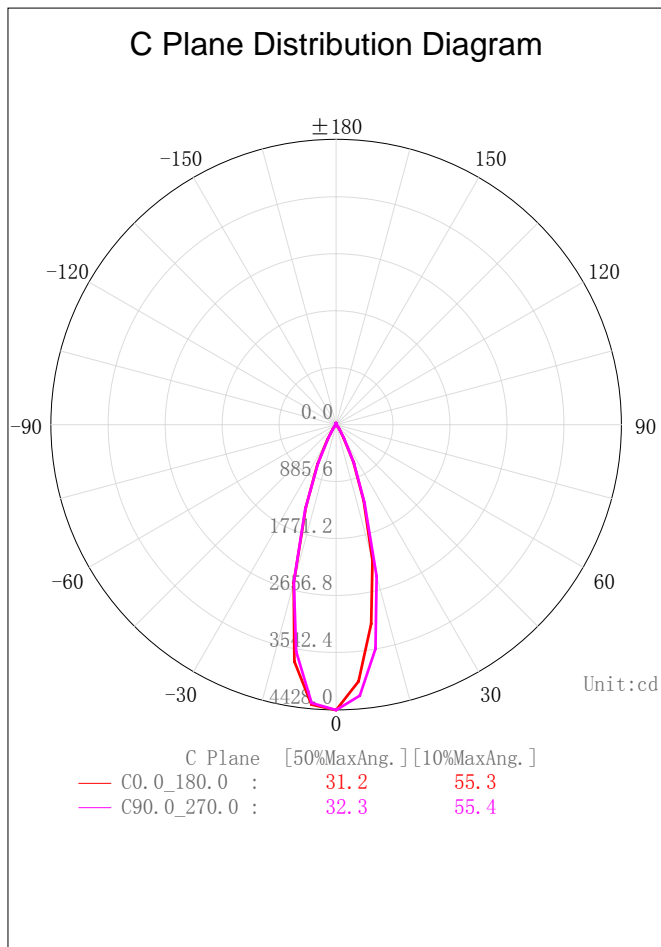
**Indoor Luminaire Photometric Data**

**Description Information**

Luminaire Name:LG-7015AJ		Lum. Catalog:Grille light	Test ID:
Lamp Name:		Lamp Catalog:LED	Test Date: 2017/08/08
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency (Hz):60	Lamp CCT(K): 3000 Ra:
Lum. Size (W*L*H):0.104m*0.444m*0.096m		Lum. Area (m2):0.089	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**

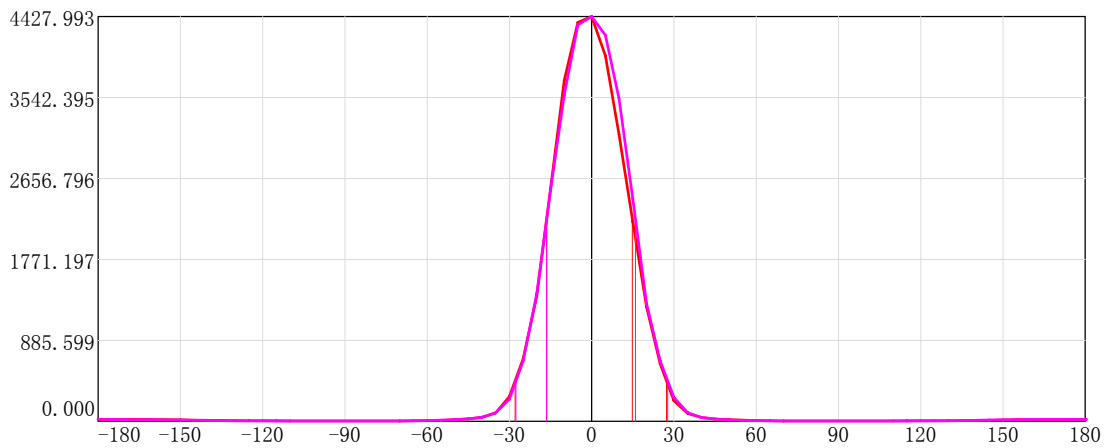
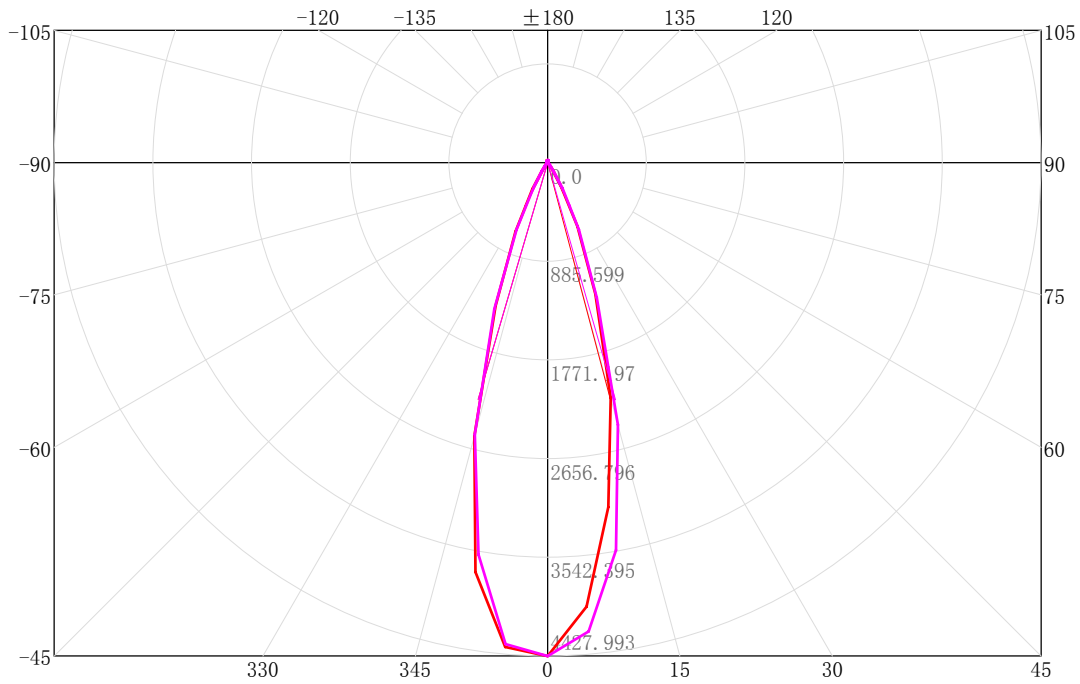
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1540.520	Luminaire Flux(lm): 1540.521	Field Angle(10%Imax): 55.3(°)	
Rated Power(W): 30	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1483.235lm 96.28%	
Rated Voltage(V): 120	Luminaire EER(lm/W): 50.410	Up Lumens&Percent: 57.286lm 3.72%	
Tested Power(W): 30.560	Max. Candela(cd): 4427.993	S/MH: C0_a180=0.520 C90_270=0.540	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):120.6, 0.279, 0.990	Beam Angle(50%Imax): 31.2(°)	ErP φ use(90°): 1450.030lm	
Lamp Size (W*L*H):0.104m*0.444m*0.096m	Left=-16.4°, Right=14.8°	IRF(%): 656.583	



**2D Plane Light Intensity Distribution Curve**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

**C Plane Distribution Diagram**

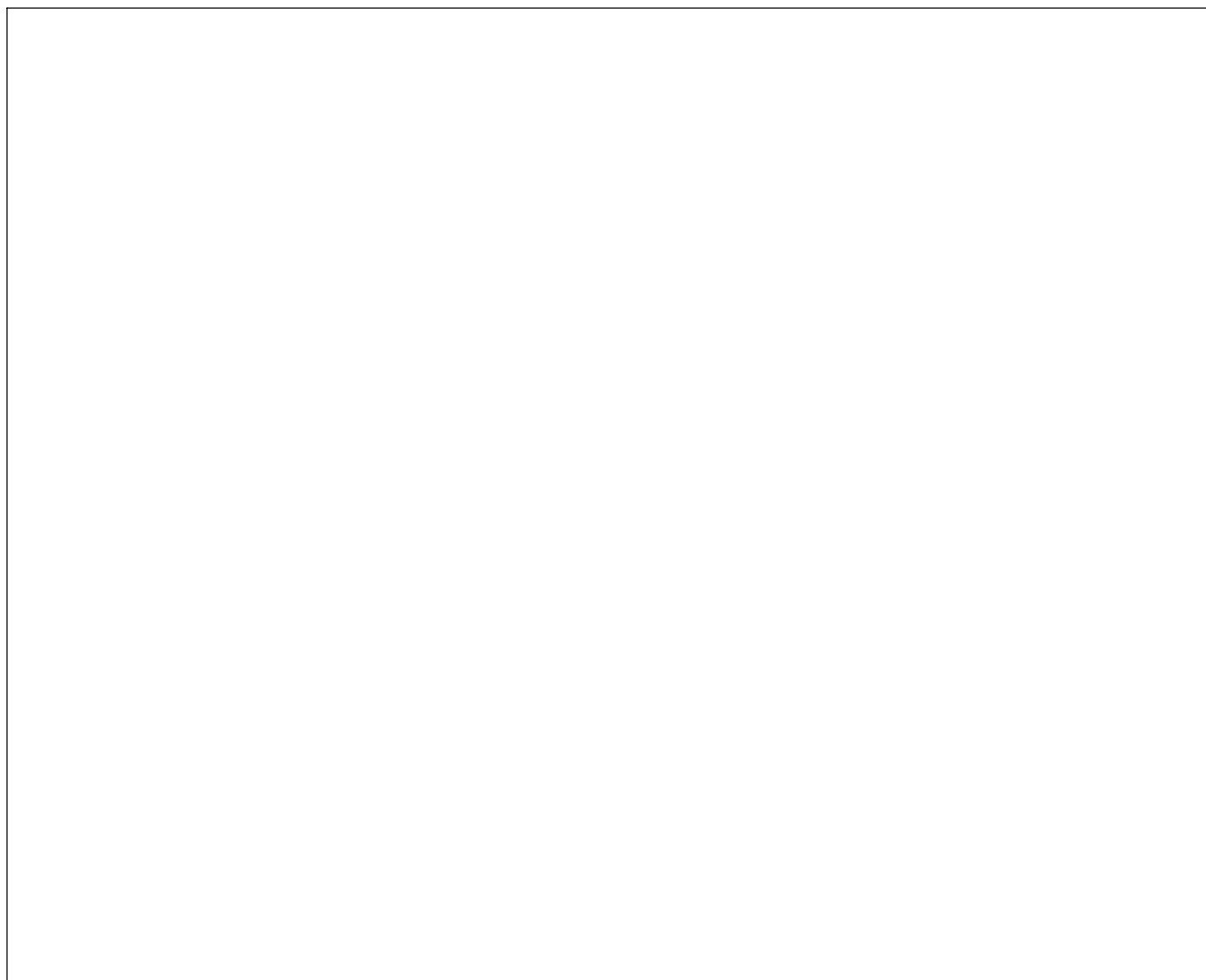


C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd  
 — C0.0\_180.0 : 31.2 55.3  
 — C90.0\_270.0 : 32.3 55.4

### 3D Light Intensity Distribution Modal

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

### 3D Light Intensity Distribution Modal



Curves:            3D Model ——    Fixture ——    Vert. HUD ——    Hori. HUD ——  
View Angles:      Orient:0            Tilt:0            Roll:0            Spin:0

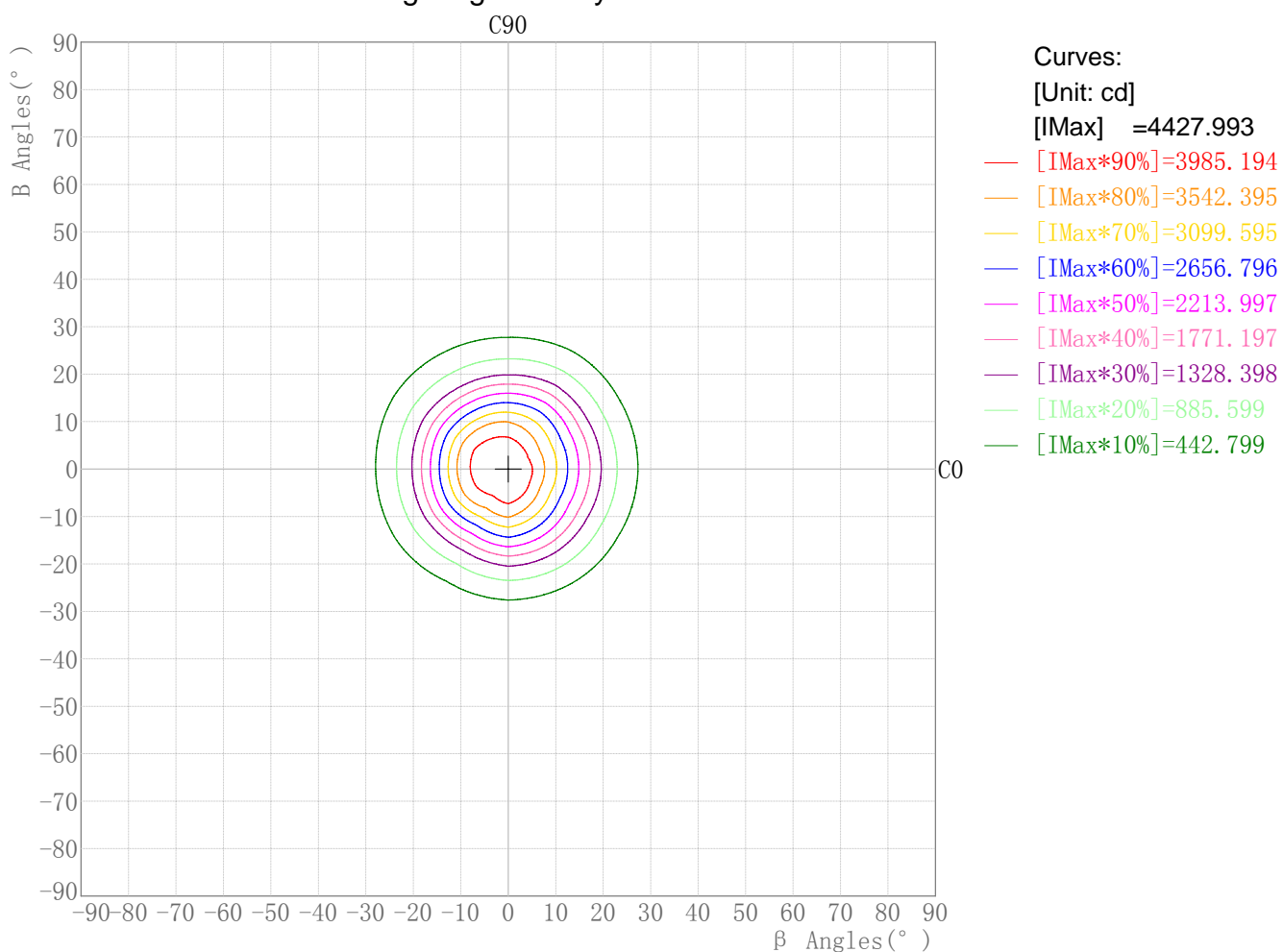
**Zonal Flux Tabulation**

Zone( $\gamma$ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	103.10	103.10	6.69	6.69
5.0-10.0	273.96	377.06	17.78	24.48
10.0-15.0	347.79	724.84	22.58	47.05
15.0-20.0	306.29	1031.14	19.88	66.93
20.0-25.0	206.37	1237.50	13.40	80.33
25.0-30.0	114.05	1351.55	7.40	87.73
30.0-35.0	50.49	1402.05	3.28	91.01
35.0-40.0	23.73	1425.77	1.54	92.55
40.0-45.0	14.39	1440.16	0.93	93.49
45.0-50.0	9.93	1450.09	0.64	94.13
50.0-55.0	7.37	1457.46	0.48	94.61
55.0-60.0	5.64	1463.10	0.37	94.97
60.0-65.0	4.31	1467.41	0.28	95.25
65.0-70.0	3.37	1470.78	0.22	95.47
70.0-75.0	3.03	1473.81	0.20	95.67
75.0-80.0	3.10	1476.91	0.20	95.87
80.0-85.0	3.15	1480.06	0.20	96.08
85.0-90.0	3.17	1483.24	0.21	96.28
90.0-95.0	3.18	1486.42	0.21	96.49
95.0-100.0	3.18	1489.60	0.21	96.69
100.0-105.0	3.15	1492.75	0.20	96.90
105.0-110.0	3.10	1495.85	0.20	97.10
110.0-115.0	3.05	1498.90	0.20	97.30
115.0-120.0	3.04	1501.94	0.20	97.50
120.0-125.0	3.10	1505.04	0.20	97.70
125.0-130.0	3.26	1508.30	0.21	97.91
130.0-135.0	3.52	1511.82	0.23	98.14
135.0-140.0	3.86	1515.68	0.25	98.39
140.0-145.0	4.17	1519.86	0.27	98.66
145.0-150.0	4.37	1524.22	0.28	98.94
150.0-155.0	4.34	1528.56	0.28	99.22
155.0-160.0	4.01	1532.57	0.26	99.48
160.0-165.0	3.37	1535.94	0.22	99.70
165.0-170.0	2.51	1538.45	0.16	99.87
170.0-175.0	1.54	1540.00	0.10	99.97
175.0-180.0	0.52	1540.52	0.03	100.00

### Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

ISO Lighting Intensity Curve

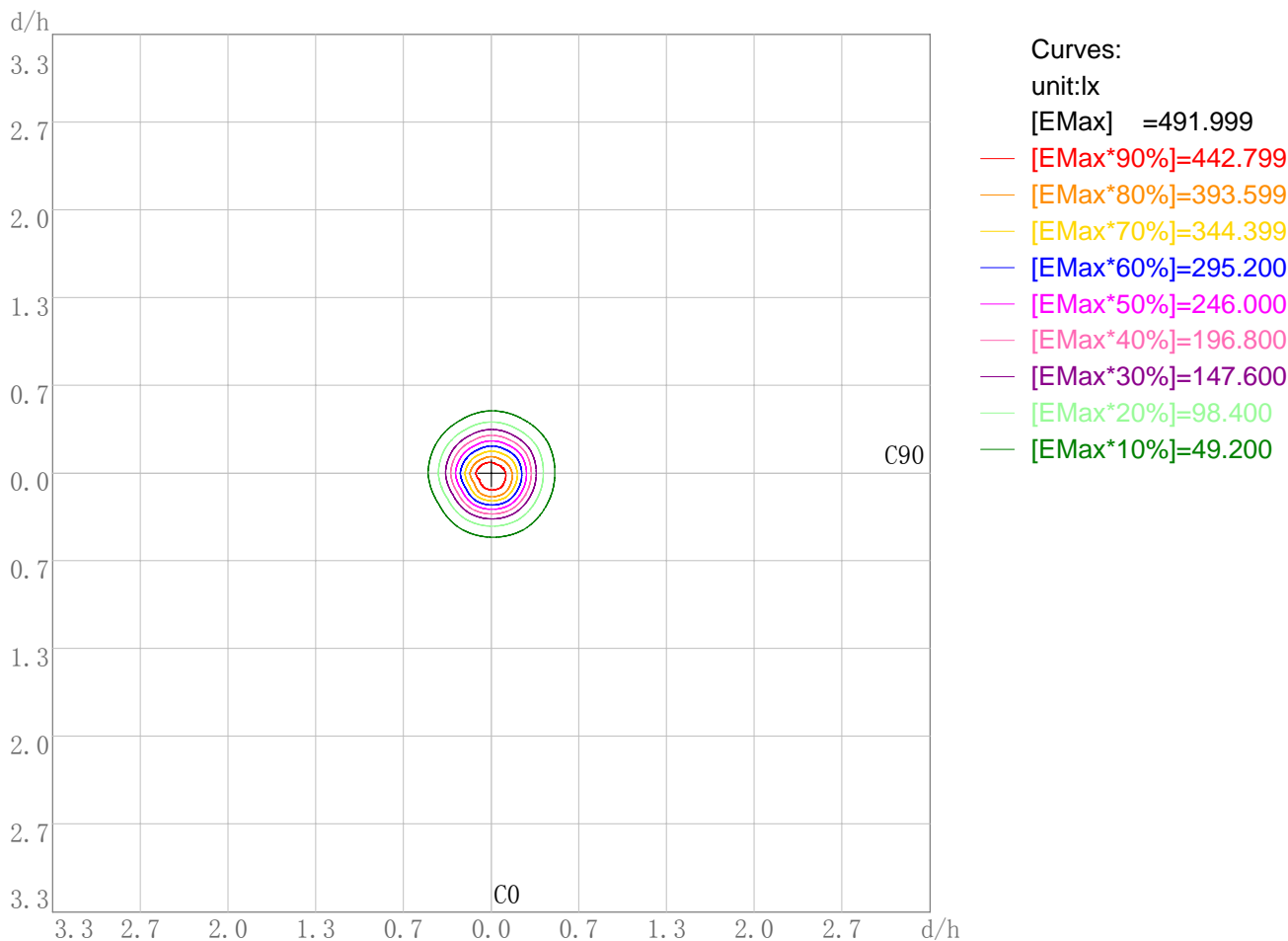


Maximum Light Intensity(cd): 4427.99  
 Maximum Cand.@Angle: H=0.0°,V=0.0°

**Plane ISO-Illuminance Diagram**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

**Plane ISO-Illuminance Curve**

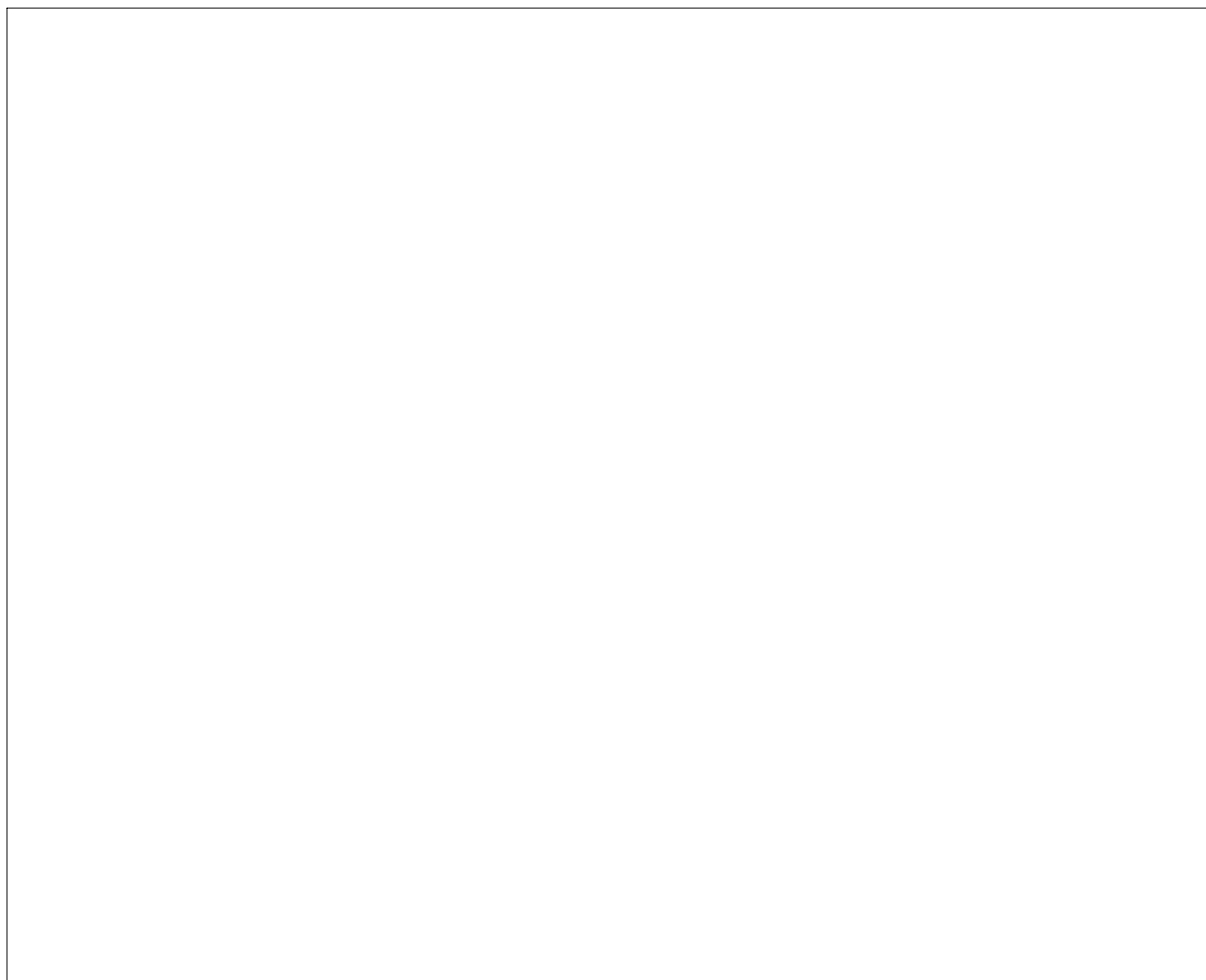


Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 492.00  
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

### 3D Plane Illuminance Modal

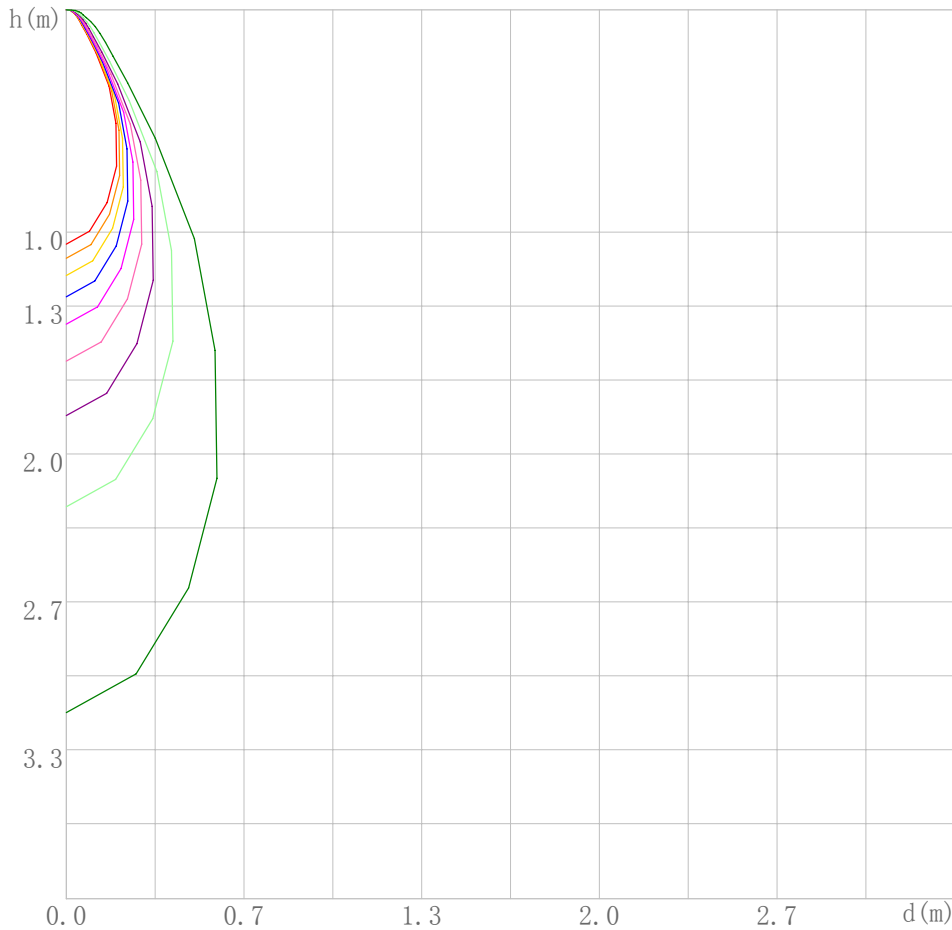


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

**Space ISO Illuminance Diagram**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

**Space ISO Illuminance Curve**



- Curves:  
 [Unit: lx]  
 [EMax] =4427.993
- [EMax\*90%]=3985.194
  - [EMax\*80%]=3542.395
  - [EMax\*70%]=3099.595
  - [EMax\*60%]=2656.796
  - [EMax\*50%]=2213.997
  - [EMax\*40%]=1771.197
  - [EMax\*30%]=1328.398
  - [EMax\*20%]=885.599
  - [EMax\*10%]=442.799

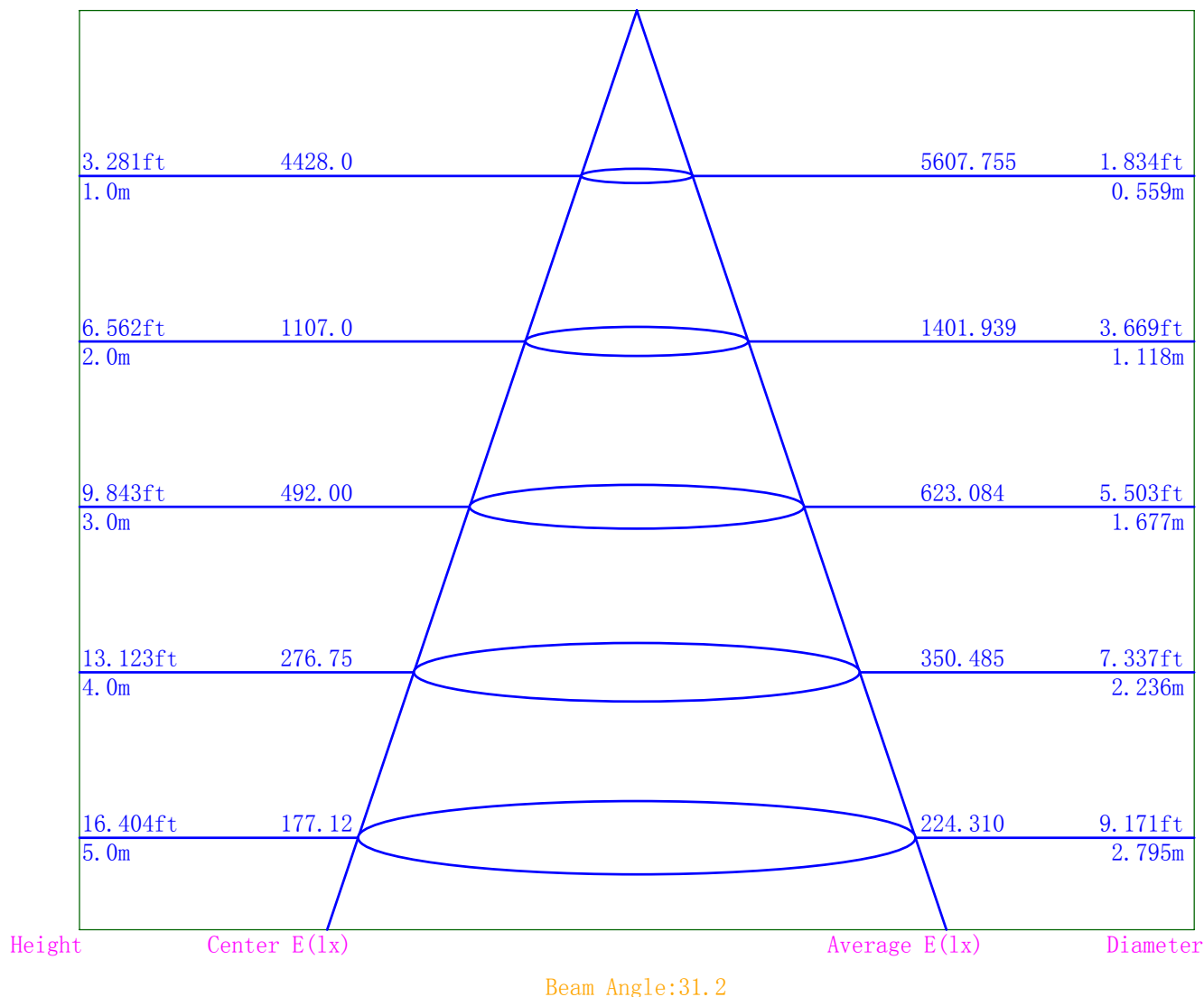
Space Plane Maximum Illuminance and @Angle:4427.99lx,0.0deg  
 Plane Maximum Lighting Intensity and @Angle:4427.993cd,0deg



### Illuminance-Distance Diagram

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

Illuminance-Distance Curve



### Indoor Luminance Limiting Curves

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

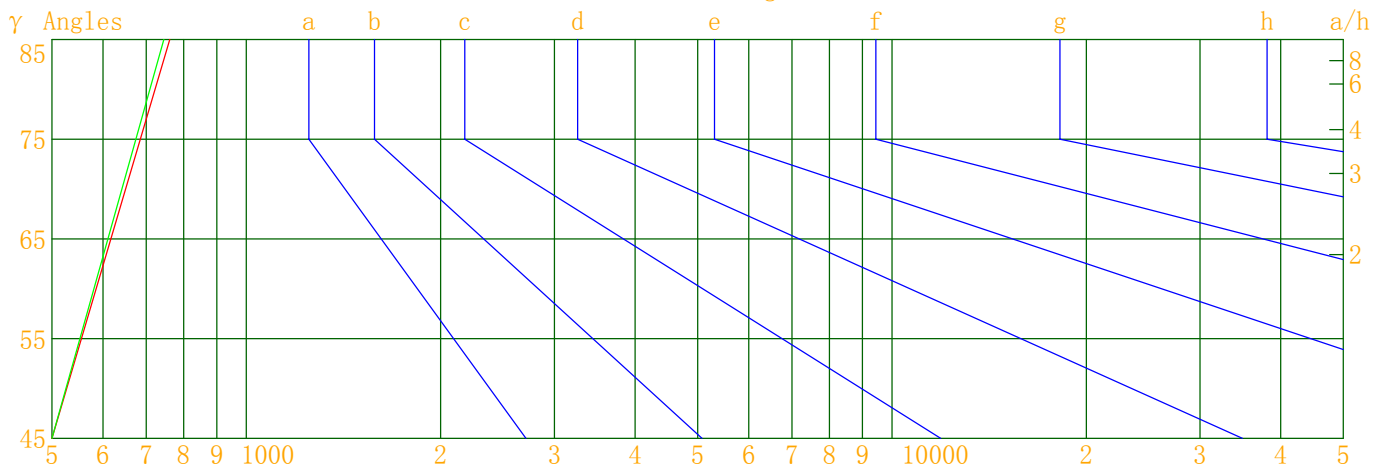
Glare Grade Table

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	432	328	266	222	191	194	253	377	761
C90	426	314	247	203	171	190	248	373	745

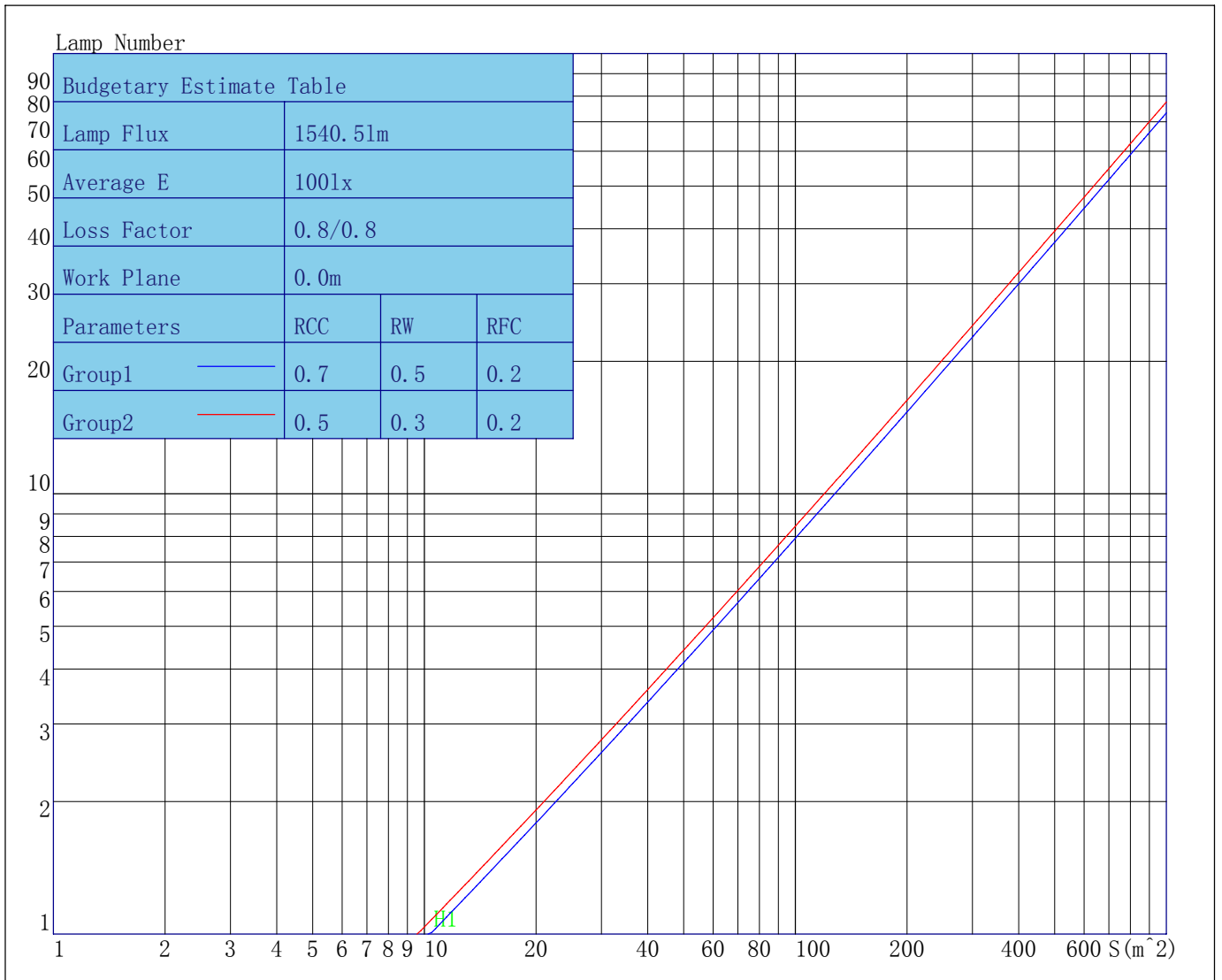
Luminance Limiting Curve



Luminous Size: Length(m)=0.444    Width(m)=0.104    Height(m)=0.096    Area(m<sup>2</sup>)=0.088800  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: —    C90-C270 Color: —

**Indoor Budgetary Estimate Table**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08



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

**Indoor Coefficient of Utilization Table**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96			
1	113	111	109	107	111	108	106	105	104	102	101	99	98	97	95	94	94	92			
2	109	105	101	98	106	103	100	97	99	96	94	95	93	92	92	91	89	88			
3	105	99	95	92	102	98	94	91	95	91	89	92	89	87	89	87	85	84			
4	101	94	90	86	99	93	89	86	91	87	84	88	85	83	86	84	82	80			
5	97	90	85	82	95	89	85	81	87	83	80	85	82	79	83	81	78	77			
6	94	86	82	78	92	85	81	78	84	80	77	82	79	76	81	78	75	74			
7	90	83	78	75	89	82	78	74	81	77	74	79	76	73	78	75	73	71			
8	87	80	75	72	86	79	75	71	78	74	71	77	73	70	75	72	70	69			
9	84	77	72	69	83	76	72	69	75	71	68	74	70	68	73	70	68	66			
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	71	68	65	64			

**Unified Glare Rating Table**

Lum. Name: LG-7015AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

**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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	0.4	1.0	0.0	0.6	0.9	0.9	1.5	0.5	1.1	1.4
Y=3H	0.9	1.5	0.7	1.2	1.5	1.3	1.9	1.0	1.6	1.9
Y=4H	1.5	2.0	1.3	1.8	2.2	1.8	2.3	1.6	2.1	2.5
Y=6H	2.5	3.0	2.4	2.9	3.2	2.7	3.2	2.6	3.1	3.4
Y=8H	3.3	3.7	3.1	3.6	4.0	3.4	3.9	3.3	3.8	4.1
Y=12H	4.2	4.7	4.2	4.6	5.0	4.3	4.8	4.3	4.7	5.1
X=4H Y=2H	0.1	0.7	-0.1	0.5	0.8	0.6	1.2	0.4	1.0	1.3
Y=3H	0.8	1.3	0.7	1.2	1.6	1.2	1.6	1.1	1.5	1.9
Y=4H	1.5	2.0	1.5	1.9	2.4	1.8	2.2	1.8	2.2	2.6
Y=6H	2.9	3.2	2.9	3.3	3.8	3.0	3.4	3.1	3.5	3.9
Y=8H	3.8	4.2	3.9	4.3	4.8	4.0	4.3	4.1	4.4	4.9
Y=12H	5.1	5.4	5.2	5.5	6.1	5.1	5.5	5.3	5.6	6.1
X=8H Y=4H	3.7	4.0	3.8	4.1	4.6	3.9	4.3	4.0	4.4	4.9
Y=6H	4.9	5.1	5.1	5.3	5.9	5.0	5.3	5.2	5.5	6.0
Y=8H	5.8	6.0	6.0	6.3	6.8	5.9	6.1	6.2	6.4	6.9
Y=12H	7.0	7.2	7.3	7.5	8.1	7.1	7.3	7.4	7.6	8.2
X=12H Y=4H	3.8	4.1	4.0	4.3	4.8	4.1	4.4	4.3	4.6	5.1
Y=6H	5.2	5.5	5.5	5.7	6.3	5.4	5.6	5.7	5.9	6.4
Y=8H	6.3	6.5	6.6	6.8	7.4	6.4	6.6	6.7	6.9	7.5
Variations with the observer position at spacings										
S=1.0H	0.3/-0.4					0.3/-0.4				
S=1.5H	0.6/-0.8					0.6/-0.8				
S=2.0H	0.5/-0.9					0.5/-0.8				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	4.4					4.1				

le is calculated according to the document STD.CIE 117-1995

**IES Indoor Report**  
**Photometric Filename:LG-7015AJ.IES**

**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	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99	4427.99
γ 5.0	3999.64	3965.58	4062.01	4222.75	4294.29	4368.28	4362.59	4324.69	4198.70	4337.15	4190.32	4029.80
γ 10.0	3138.03	3172.77	3378.52	3531.00	3634.84	3779.94	3730.93	3682.42	3449.25	3571.83	3343.52	3128.88
γ 15.0	2183.99	2218.61	2424.90	2436.12	2478.10	2611.17	2541.42	2531.58	2332.18	2525.51	2363.77	2166.22
γ 20.0	1252.87	1241.26	1355.82	1289.39	1320.40	1419.52	1366.19	1354.24	1221.93	1397.11	1340.45	1225.61
γ 25.0	630.91	631.55	695.84	663.18	674.26	721.49	683.58	661.85	575.49	660.74	635.30	592.37
γ 30.0	227.78	235.28	283.17	262.84	273.86	302.18	271.71	253.59	207.40	241.47	224.49	204.27
γ 35.0	87.03	91.51	102.31	95.47	98.14	106.45	92.98	98.44	85.25	94.77	89.56	84.71
γ 40.0	43.02	49.24	53.38	43.87	51.28	52.76	44.75	51.27	47.21	46.30	50.04	46.77
γ 45.0	27.13	29.93	31.94	26.76	30.37	30.99	27.52	30.65	28.66	28.24	31.35	28.99
γ 50.0	18.73	20.32	21.12	17.94	20.22	20.60	18.52	20.51	19.37	18.95	21.13	19.88
γ 55.0	13.54	14.69	14.98	12.60	14.24	14.74	12.99	14.70	13.93	13.37	15.09	14.57
γ 60.0	9.86	10.87	10.81	9.01	10.36	10.60	9.40	10.70	10.22	9.67	11.04	10.75
γ 65.0	7.18	7.98	7.95	6.43	7.57	7.68	6.84	7.69	7.43	6.97	8.02	7.85
γ 70.0	5.88	5.92	5.81	5.76	5.83	5.84	5.82	5.85	5.73	5.82	5.85	5.79
γ 75.0	5.82	5.76	5.70	5.69	5.84	5.75	5.87	5.79	5.75	5.80	5.82	5.76
γ 80.0	5.82	5.81	5.75	5.75	5.86	5.78	5.89	5.74	5.71	5.82	5.88	5.79
γ 85.0	5.89	5.80	5.74	5.77	5.83	5.78	5.83	5.76	5.72	5.88	5.82	5.74
γ 90.0	5.84	5.77	5.72	5.77	5.83	5.78	5.88	5.75	5.75	5.86	5.82	5.80
γ 95.0	5.93	5.81	5.73	5.81	5.86	5.80	5.89	5.80	5.77	5.87	5.90	5.78
γ 100.0	5.94	5.84	5.75	5.83	5.94	5.85	5.87	5.85	5.77	5.93	5.95	5.87
γ 105.0	5.99	5.84	5.84	5.87	5.93	5.95	5.96	5.86	5.81	5.97	5.97	5.85
γ 110.0	6.00	5.97	5.86	5.88	5.95	6.00	5.99	5.94	5.93	5.99	6.00	5.96
γ 115.0	6.17	6.05	5.97	6.05	6.15	6.07	6.18	6.14	6.12	6.09	6.20	6.09
γ 120.0	6.34	6.37	6.22	6.41	6.50	6.42	6.49	6.48	6.45	6.37	6.49	6.38
γ 125.0	6.97	6.85	6.71	7.09	7.17	7.03	7.09	7.08	7.19	6.91	6.91	6.94
γ 130.0	7.80	7.76	7.47	8.30	8.29	8.04	8.20	8.16	8.41	7.72	7.84	7.85
γ 135.0	9.12	9.09	8.70	10.09	9.93	9.65	9.71	9.72	9.99	9.07	9.18	9.20
γ 140.0	10.85	10.75	10.36	12.35	12.15	11.74	11.80	11.85	12.13	10.76	10.93	10.88
γ 145.0	12.82	12.80	12.33	14.93	14.68	14.23	14.15	14.22	14.70	12.85	12.96	12.97
γ 150.0	14.95	14.81	14.45	17.74	17.38	16.90	16.76	16.83	17.31	15.06	15.15	15.06
γ 155.0	16.86	16.82	16.57	20.21	19.82	19.32	19.08	19.10	19.65	17.20	17.26	16.95
γ 160.0	18.58	18.44	18.26	21.98	21.54	21.22	20.95	20.86	21.19	18.97	18.94	18.47
γ 165.0	19.80	19.56	19.38	22.79	22.33	22.26	22.03	21.81	21.92	20.07	19.95	19.62
γ 170.0	20.63	20.37	20.10	22.90	22.38	22.59	22.49	22.17	22.10	20.70	20.59	20.16
γ 175.0	21.47	21.00	20.69	22.71	22.13	22.44	22.51	22.10	22.00	21.48	21.33	20.87
γ 180.0	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07	22.07