

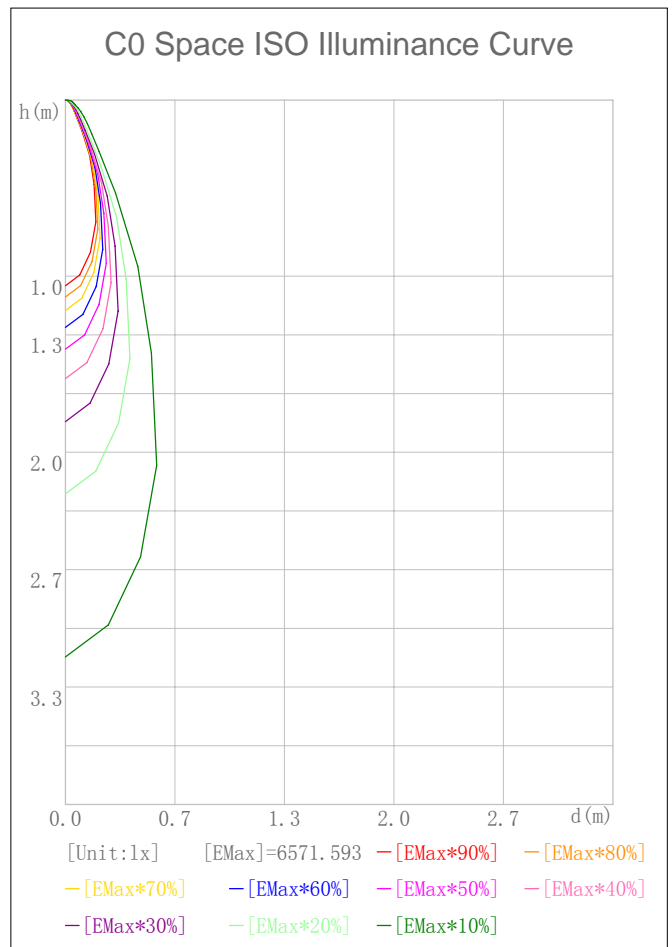
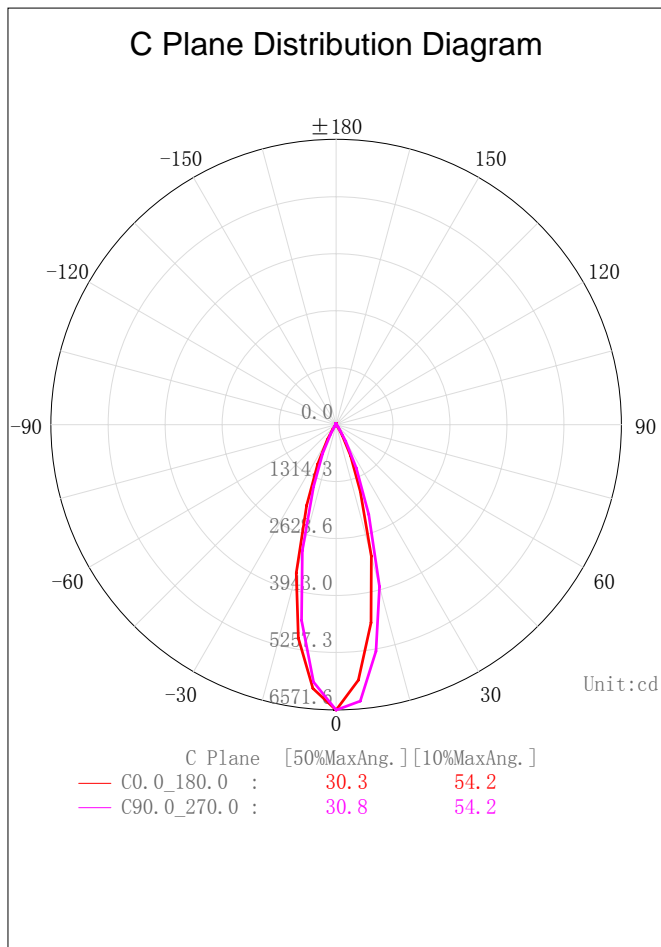
Indoor Luminaire Photometric Data

Description Information

Luminaire Name:LG-7040AJ	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):0.159m*0.311m*0.096m	Lum. Area (m2):0.079	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

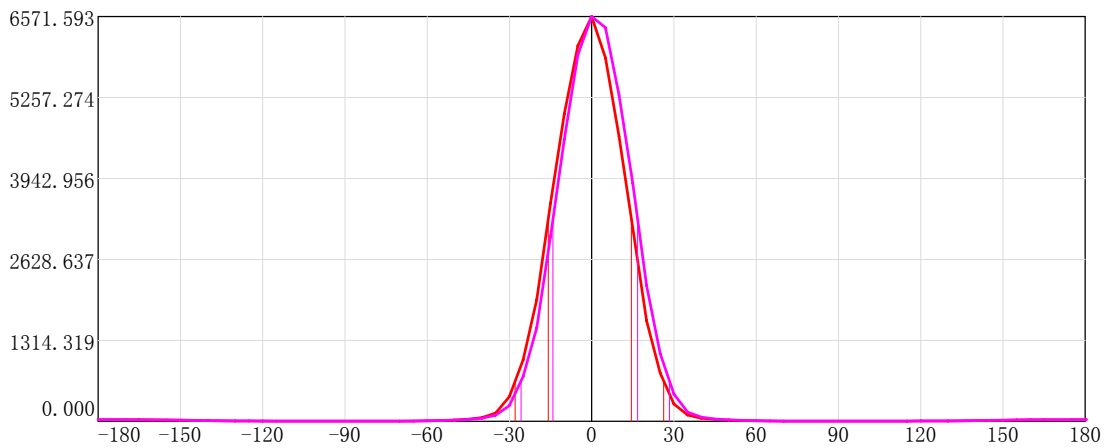
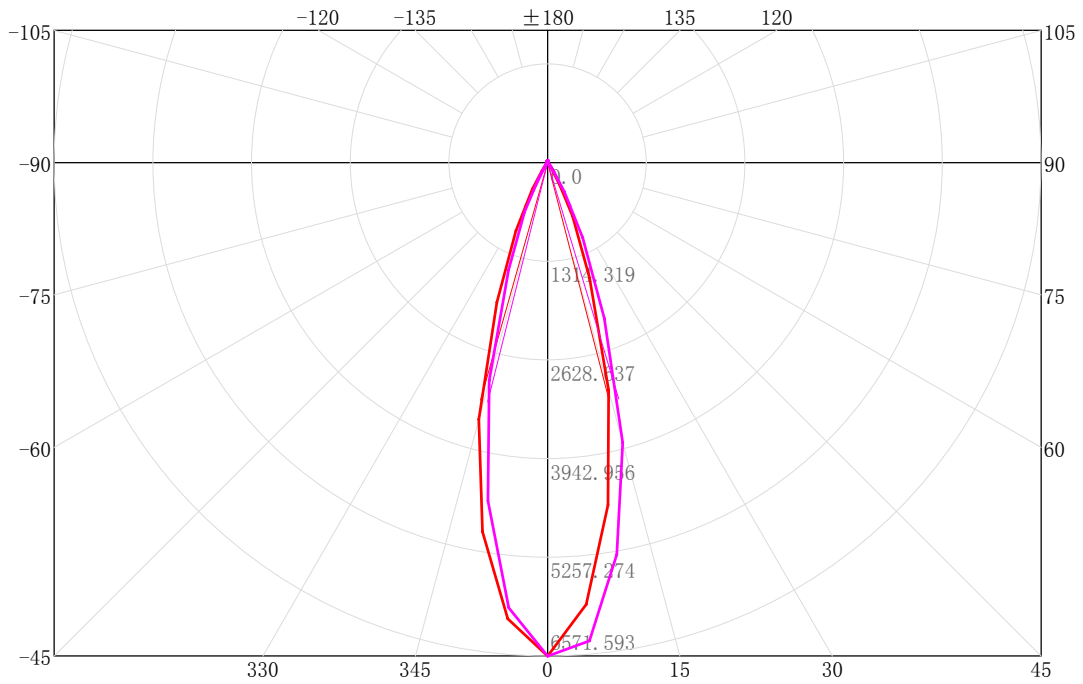
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2132.240	Luminaire Flux(lm): 2132.243	Field Angle(10%Imax): 54.2(°)	
Rated Power(W): 40	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 2066.850lm 96.93%	
Rated Voltage(V): 120	Luminaire EER(lm/W): 47.174	Up Lumens&Percent: 65.393lm 3.07%	
Tested Power(W): 45.200	Max. Candela(cd): 6571.593	S/MH: C0_a180=0.504 C90_270=0.515	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):120.6, 0.413, 0.989	Beam Angle(50%Imax): 30.3(°)	ErP φ use(90°): 2037.458lm	
Lamp Size (W*L*H):0.159m*0.311m*0.096m	Left=-15.8°, Right=14.5°	IRF(%): 699.297	



2D Plane Light Intensity Distribution Curve

Lum. Name: LG-7040AJ	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

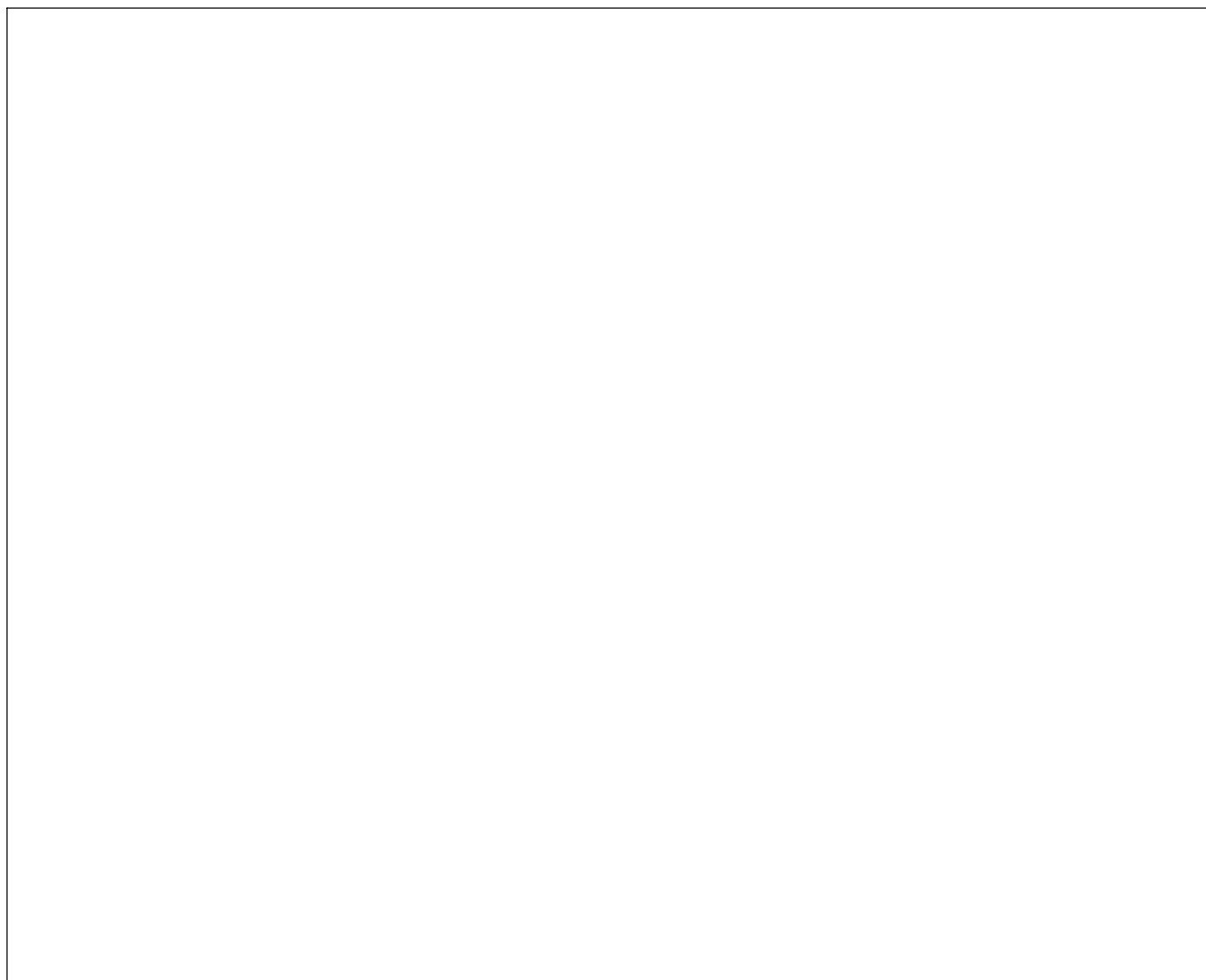


C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 — C0.0_180.0 : 30.3 54.2
 — C90.0_270.0 : 30.8 54.2

3D Light Intensity Distribution Modal

Lum. Name: LG-7040AJ	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

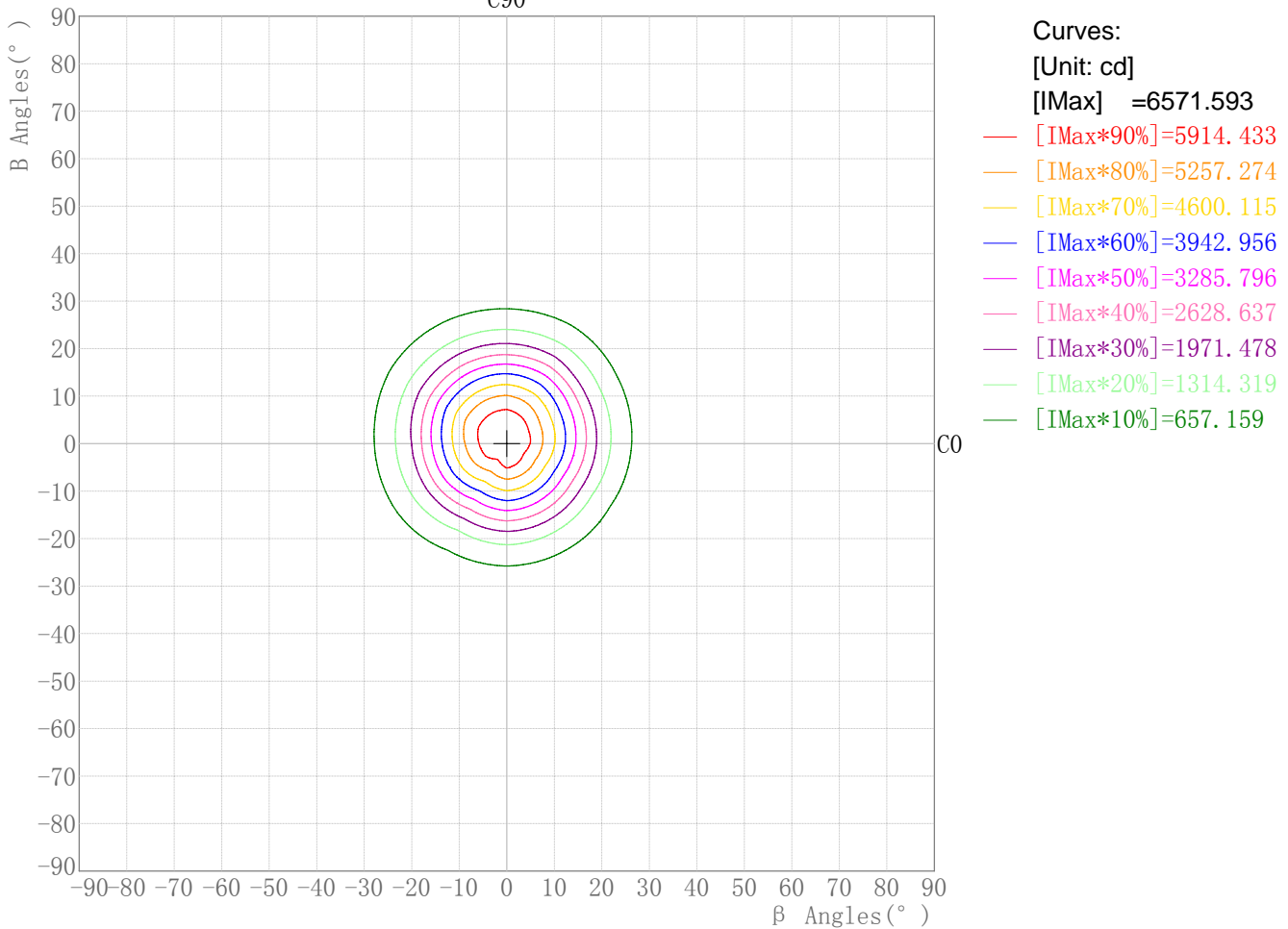
Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	150.80	150.80	7.07	7.07
5.0-10.0	389.24	540.04	18.25	25.33
10.0-15.0	486.42	1026.46	22.81	48.14
15.0-20.0	427.76	1454.22	20.06	68.20
20.0-25.0	286.21	1740.43	13.42	81.62
25.0-30.0	157.69	1898.12	7.40	89.02
30.0-35.0	69.29	1967.40	3.25	92.27
35.0-40.0	31.42	1998.82	1.47	93.74
40.0-45.0	18.78	2017.60	0.88	94.62
45.0-50.0	12.68	2030.29	0.59	95.22
50.0-55.0	9.09	2039.38	0.43	95.64
55.0-60.0	6.68	2046.06	0.31	95.96
60.0-65.0	4.85	2050.91	0.23	96.19
65.0-70.0	3.54	2054.45	0.17	96.35
70.0-75.0	3.04	2057.50	0.14	96.49
75.0-80.0	3.08	2060.57	0.14	96.64
80.0-85.0	3.12	2063.70	0.15	96.79
85.0-90.0	3.15	2066.85	0.15	96.93
90.0-95.0	3.17	2070.02	0.15	97.08
95.0-100.0	3.16	2073.18	0.15	97.23
100.0-105.0	3.14	2076.32	0.15	97.38
105.0-110.0	3.10	2079.43	0.15	97.52
110.0-115.0	3.08	2082.51	0.14	97.67
115.0-120.0	3.11	2085.62	0.15	97.81
120.0-125.0	3.23	2088.85	0.15	97.96
125.0-130.0	3.51	2092.36	0.16	98.13
130.0-135.0	3.96	2096.32	0.19	98.32
135.0-140.0	4.52	2100.84	0.21	98.53
140.0-145.0	5.07	2105.91	0.24	98.77
145.0-150.0	5.44	2111.35	0.26	99.02
150.0-155.0	5.51	2116.86	0.26	99.28
155.0-160.0	5.14	2122.00	0.24	99.52
160.0-165.0	4.35	2126.35	0.20	99.72
165.0-170.0	3.24	2129.59	0.15	99.88
170.0-175.0	1.98	2131.57	0.09	99.97
175.0-180.0	0.67	2132.24	0.03	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-7040AJ	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
 C90

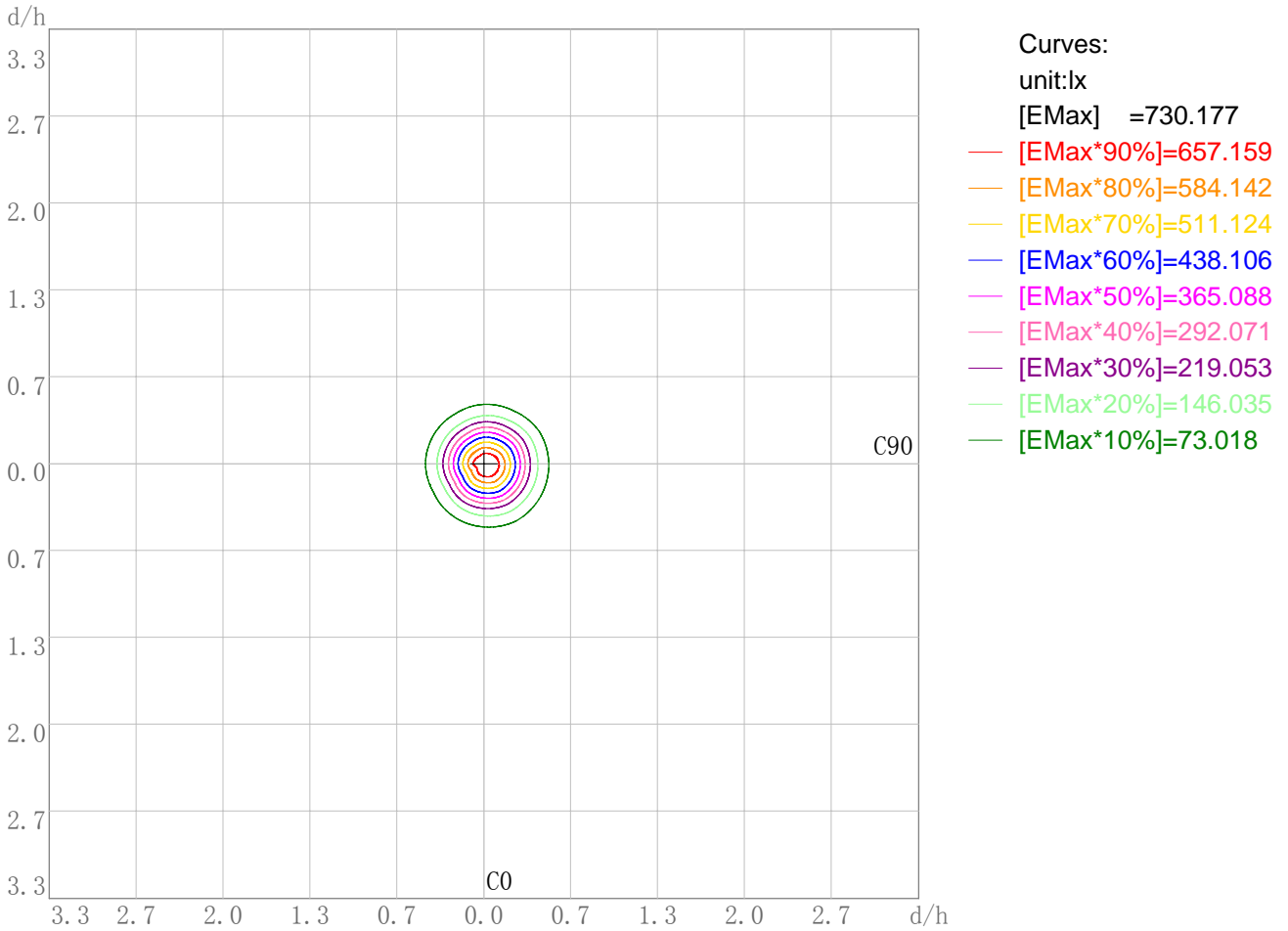


Maximum Light Intensity(cd): 6571.59
 Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LG-7040AJ	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

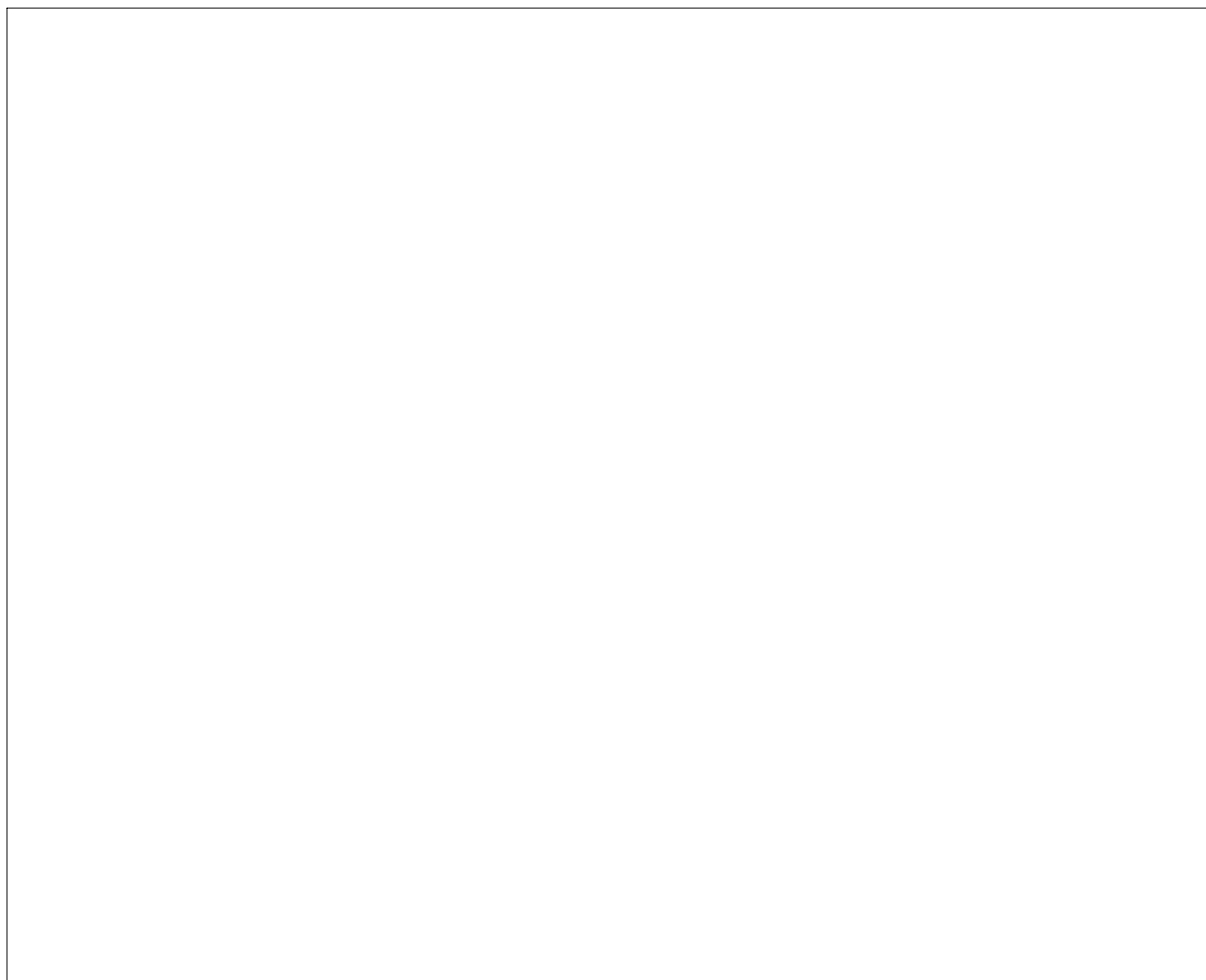


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 730.18
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LG-7040AJ	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

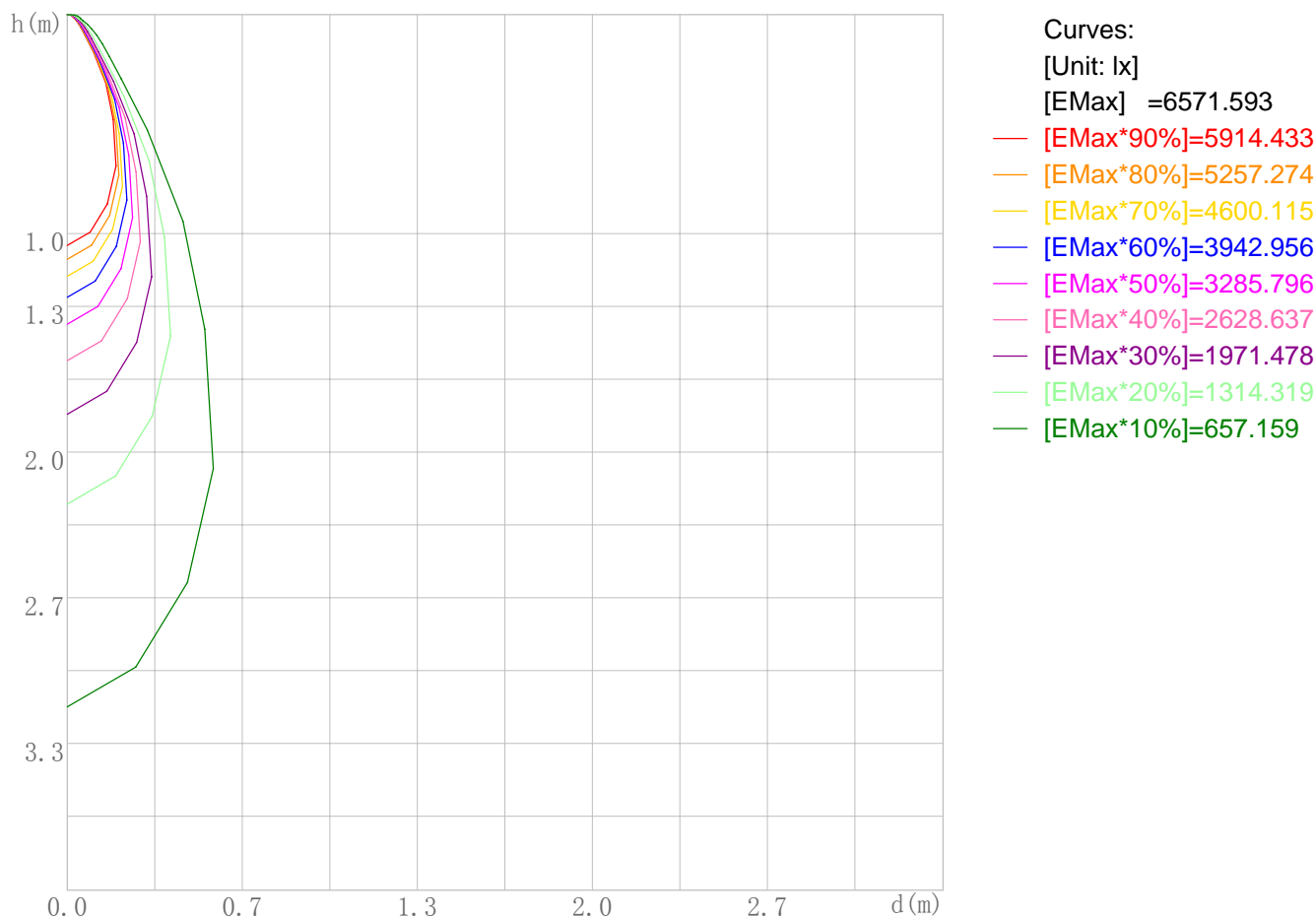


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LG-7040AJ	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

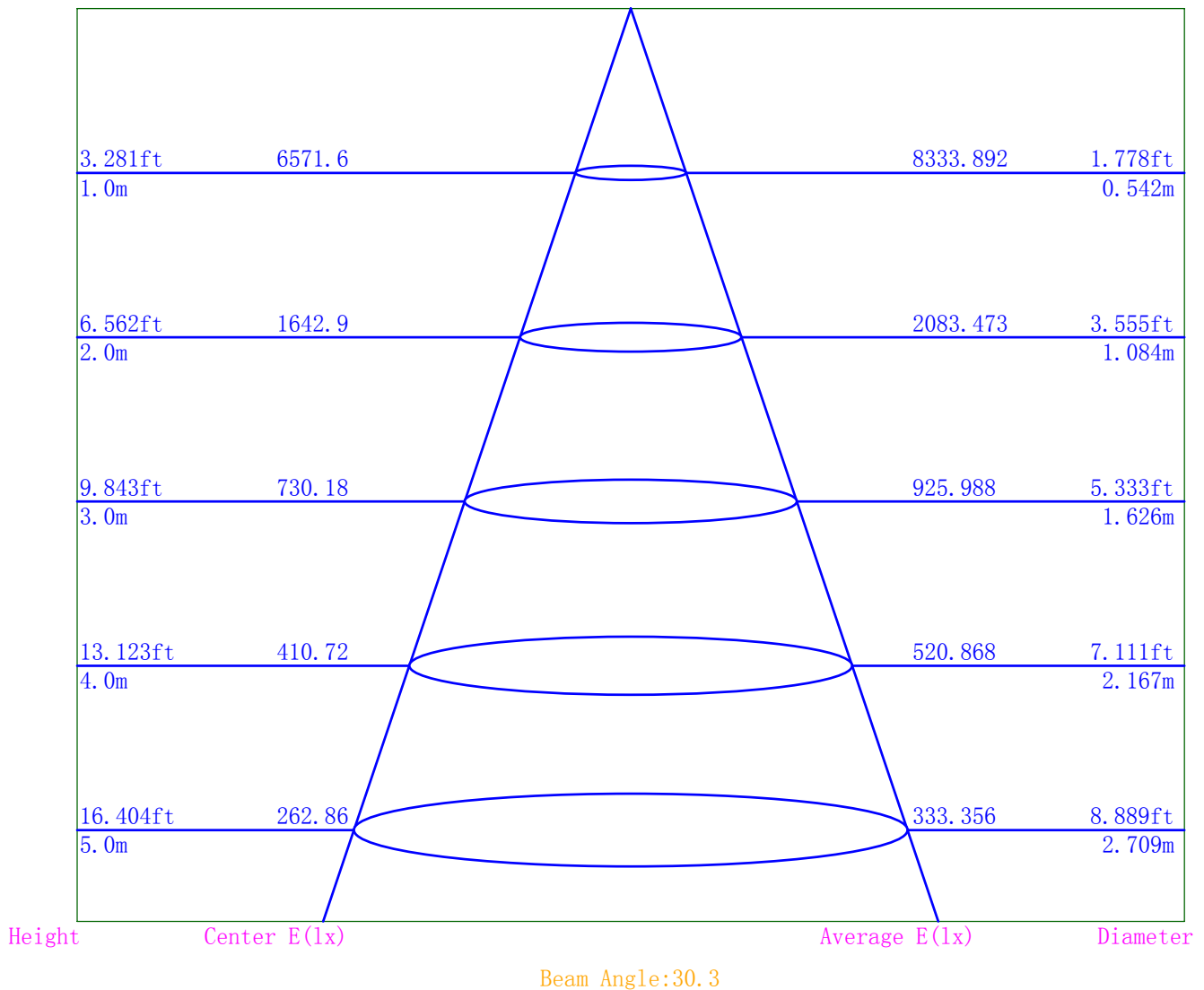


Space Plane Maximum Illuminance and @Angle:6571.59lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:6571.593cd,0deg

Illuminance-Distance Diagram

Lum. Name: LG-7040AJ	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-7040AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/08

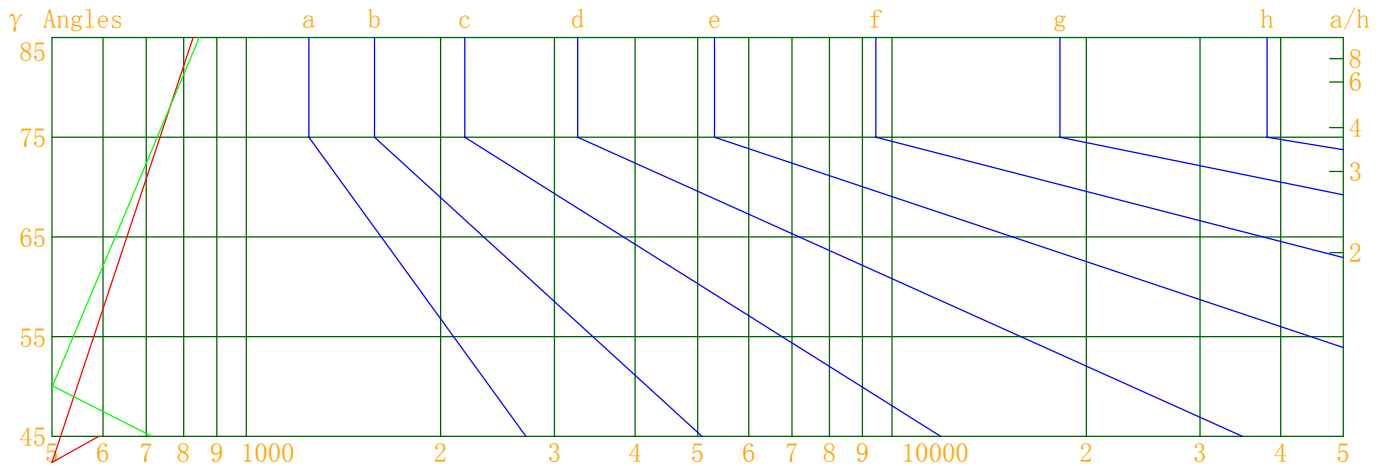
Glare Grade Table

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	591	430	326	255	204	211	281	415	827
C90	714	503	380	298	239	216	284	426	845

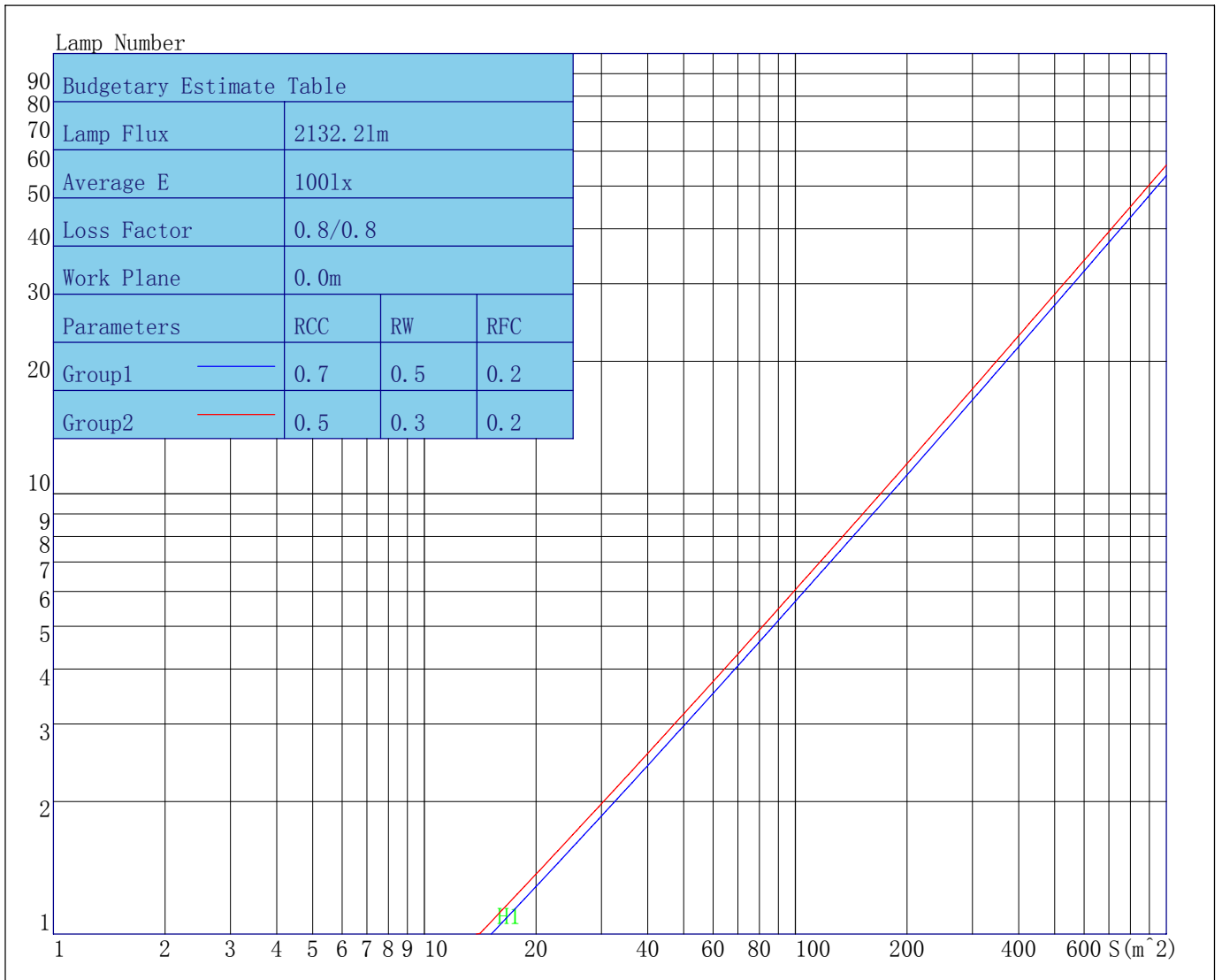
Luminance Limiting Curve



Luminous Size: Length(m)=0.311 Width(m)=0.159 Height(m)=0.096 Area(m²)=0.079305
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LG-7040AJ	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-7040AJ	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	97			
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	96	95	94	93			
2	109	105	102	99	107	103	100	98	100	97	95	96	94	93	93	92	90	88			
3	105	100	96	92	103	98	95	92	95	92	90	93	90	88	90	88	86	85			
4	101	95	91	87	99	94	90	87	91	88	85	89	86	84	87	85	83	81			
5	98	91	86	83	96	90	86	82	88	84	81	86	83	80	84	82	79	78			
6	94	87	82	79	93	86	82	79	85	81	78	83	80	77	82	79	76	75			
7	91	84	79	76	90	83	78	75	81	78	75	80	77	74	79	76	74	72			
8	88	81	76	73	87	80	75	72	79	75	72	78	74	71	76	73	71	70			
9	85	78	73	70	84	77	73	70	76	72	69	75	71	69	74	71	69	68			
10	83	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65			

Unified Glare Rating Table

Lum. Name: LG-7040AJ	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	-0.6	0.0	-0.9	-0.3	-0.1	2.0	2.6	1.7	2.3	2.5
Y=3H	-0.2	0.4	-0.5	0.1	0.4	2.2	2.7	1.9	2.4	2.7
Y=4H	0.3	0.8	0.1	0.6	0.9	2.3	2.9	2.1	2.7	3.0
Y=6H	1.1	1.6	1.0	1.4	1.8	2.8	3.3	2.6	3.1	3.5
Y=8H	1.8	2.2	1.6	2.1	2.5	3.2	3.7	3.1	3.5	3.9
Y=12H	2.6	3.1	2.5	3.0	3.4	3.8	4.3	3.7	4.2	4.5
X=4H Y=2H	-0.8	-0.3	-1.0	-0.5	-0.2	1.7	2.3	1.5	2.0	2.4
Y=3H	-0.3	0.1	-0.4	0.0	0.4	1.9	2.4	1.8	2.3	2.6
Y=4H	0.3	0.7	0.2	0.6	1.1	2.2	2.6	2.2	2.6	3.0
Y=6H	1.4	1.8	1.5	1.8	2.3	2.8	3.2	2.9	3.2	3.7
Y=8H	2.2	2.6	2.4	2.7	3.2	3.4	3.7	3.5	3.8	4.3
Y=12H	3.4	3.7	3.6	3.9	4.3	4.3	4.6	4.4	4.7	5.2
X=8H Y=4H	2.6	2.9	2.7	3.0	3.5	4.2	4.5	4.3	4.6	5.1
Y=6H	3.6	3.8	3.8	4.0	4.5	4.8	5.0	5.0	5.3	5.8
Y=8H	4.3	4.6	4.6	4.8	5.4	5.3	5.6	5.6	5.8	6.4
Y=12H	5.4	5.6	5.7	5.9	6.5	6.2	6.4	6.5	6.7	7.3
X=12H Y=4H	2.7	3.0	2.9	3.2	3.7	4.2	4.5	4.4	4.7	5.2
Y=6H	3.9	4.1	4.1	4.4	4.9	5.0	5.2	5.2	5.5	6.0
Y=8H	4.8	5.0	5.1	5.3	5.9	5.7	5.9	6.0	6.2	6.7
Variations with the observer position at spacings										
S=1.0H	0.3/-0.4					0.4/-0.4				
S=1.5H	0.6/-0.8					0.6/-0.9				
S=2.0H	0.5/-0.8					0.5/-0.9				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	4.0					3.0				

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

IES Indoor Report
Photometric Filename:LG-7040AJ.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	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59	6571.59
γ 5.0	5905.28	5992.69	6206.09	6393.14	6361.68	6298.17	6098.84	5953.18	5710.26	5949.80	5865.53	5776.61
γ 10.0	4629.79	4807.94	5134.21	5297.66	5301.25	5272.35	4990.74	4769.20	4382.78	4573.97	4484.27	4413.28
γ 15.0	3137.91	3356.07	3750.21	3863.10	3892.65	3880.93	3540.13	3282.62	2842.34	3002.95	2926.79	2867.44
γ 20.0	1635.82	1800.54	2150.16	2208.20	2262.81	2272.12	1977.86	1753.86	1438.07	1519.10	1475.13	1448.07
γ 25.0	787.75	880.15	1058.56	1102.95	1132.71	1142.73	1000.57	881.70	703.89	730.26	701.26	682.27
γ 30.0	282.15	320.74	423.11	445.07	476.13	497.88	403.50	326.47	237.63	256.80	244.21	234.20
γ 35.0	102.74	123.14	147.79	150.48	153.83	161.57	135.45	122.25	100.59	101.45	100.49	98.40
γ 40.0	53.03	64.56	75.51	69.97	77.15	78.38	61.10	64.43	55.72	50.80	56.15	54.68
γ 45.0	33.13	38.60	45.68	40.06	45.28	45.10	36.53	38.42	33.69	31.20	34.35	33.81
γ 50.0	21.90	25.38	29.06	25.64	28.84	29.00	23.93	25.17	22.36	20.53	22.83	22.82
γ 55.0	14.85	17.72	19.61	17.27	19.65	20.10	16.42	17.47	15.51	13.97	15.79	15.92
γ 60.0	10.12	12.51	13.60	11.83	13.71	14.07	11.51	12.21	10.94	9.60	11.00	11.19
γ 65.0	6.85	8.56	9.42	8.02	9.49	9.79	7.85	8.44	7.41	6.27	7.41	7.66
γ 70.0	5.71	5.81	6.18	5.86	6.17	6.51	5.69	5.71	5.64	5.75	5.80	5.91
γ 75.0	5.76	5.69	5.66	5.82	5.79	5.76	5.70	5.68	5.66	5.78	5.81	5.92
γ 80.0	5.72	5.70	5.65	5.87	5.77	5.77	5.72	5.69	5.67	5.81	5.87	5.84
γ 85.0	5.72	5.72	5.64	5.84	5.78	5.72	5.71	5.63	5.69	5.81	5.82	5.85
γ 90.0	5.78	5.66	5.67	5.85	5.84	5.74	5.75	5.69	5.68	5.80	5.81	5.89
γ 95.0	5.74	5.74	5.75	5.88	5.85	5.80	5.77	5.71	5.70	5.90	5.85	5.91
γ 100.0	5.80	5.79	5.79	5.92	5.95	5.87	5.74	5.76	5.76	5.88	5.99	5.91
γ 105.0	5.89	5.89	5.85	5.99	5.99	5.88	5.75	5.79	5.83	5.96	6.00	5.93
γ 110.0	6.03	5.85	5.94	6.04	6.01	5.95	5.89	5.98	5.93	6.02	6.08	6.08
γ 115.0	6.17	6.06	6.06	6.22	6.21	6.16	6.05	6.17	6.25	6.25	6.33	6.28
γ 120.0	6.52	6.44	6.36	6.65	6.62	6.55	6.48	6.62	6.82	6.68	6.80	6.70
γ 125.0	7.27	7.09	6.82	7.49	7.34	7.29	7.35	7.54	7.84	7.39	7.55	7.56
γ 130.0	8.50	8.22	7.84	8.87	8.68	8.65	8.83	9.19	9.64	8.86	8.92	8.91
γ 135.0	10.37	10.03	9.48	11.10	10.85	10.79	11.09	11.51	12.29	10.86	10.96	10.91
γ 140.0	12.80	12.33	11.70	14.15	13.82	13.67	14.00	14.64	15.49	13.40	13.54	13.41
γ 145.0	15.60	15.17	14.37	17.72	17.33	17.19	17.43	18.18	19.19	16.39	16.55	16.32
γ 150.0	18.62	18.09	17.38	21.62	21.19	20.97	21.10	21.92	22.89	19.48	19.64	19.31
γ 155.0	21.36	21.00	20.36	25.30	24.77	24.54	24.55	25.16	26.04	22.45	22.47	22.02
γ 160.0	23.68	23.37	22.83	28.01	27.46	27.33	27.08	27.44	28.04	24.54	24.57	24.03
γ 165.0	25.28	24.97	24.52	29.47	28.81	28.85	28.45	28.59	28.74	25.90	25.75	25.28
γ 170.0	26.28	25.97	25.61	29.79	29.00	29.22	28.84	28.57	28.60	26.60	26.49	26.02
γ 175.0	27.27	26.80	26.38	29.39	28.58	28.90	28.68	28.14	28.00	27.40	27.33	26.97
γ 180.0	28.18	28.18	28.18	28.18	28.18	28.18	28.18	28.18	28.18	28.18	28.18	28.18