

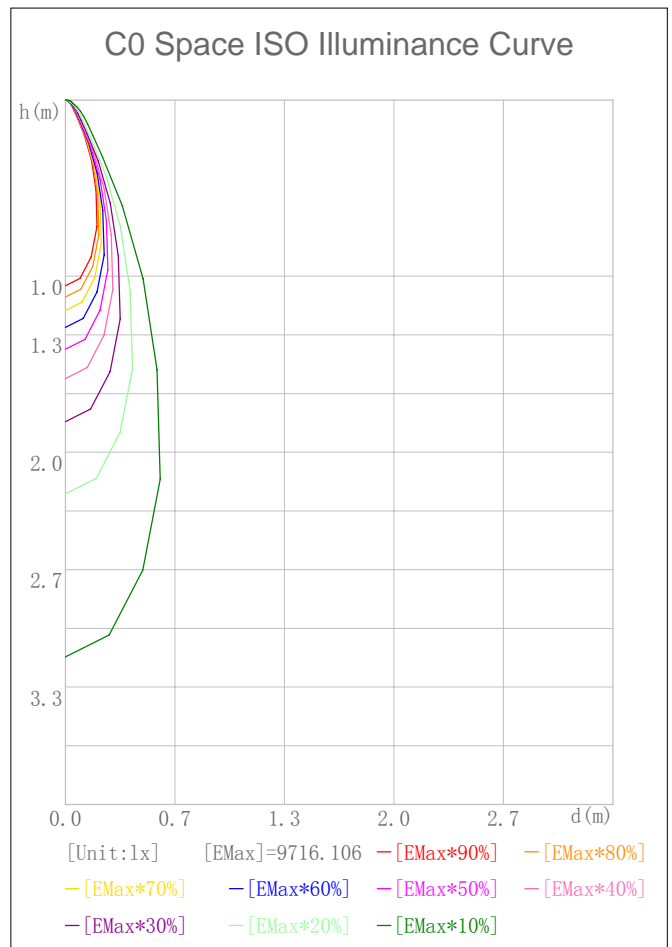
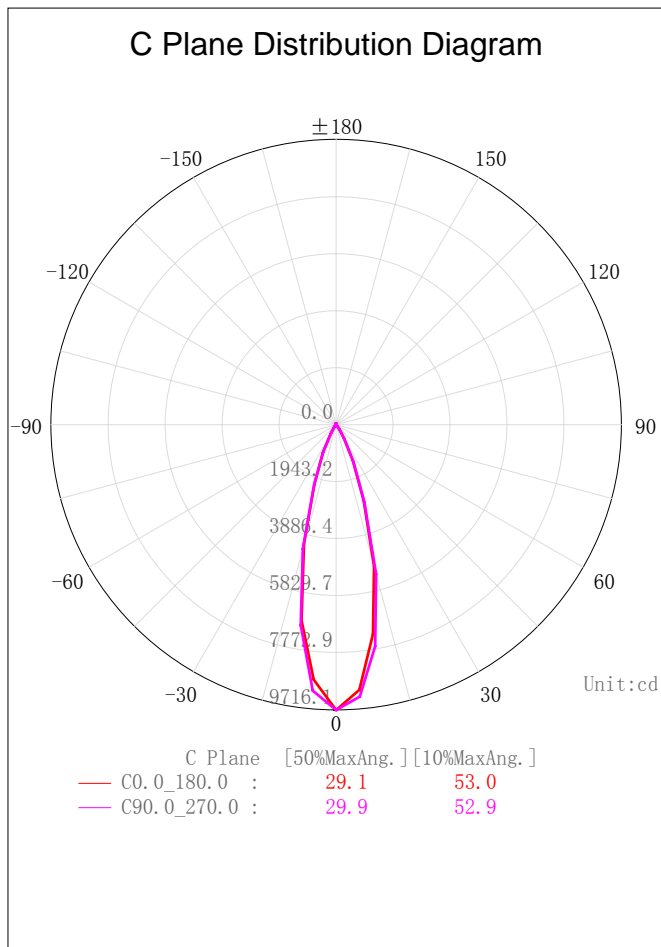
Indoor Luminaire Photometric Data

Description Information

Luminaire Name:LG-7060AJ	Lum. Catalog:Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Date: 2017/08/09
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):60	Lamp CCT(K): 3000 Ra:
Lum. Size (W*L*H):0.159m*0.441m*0.096m	Lum. Area (m2):0.112	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

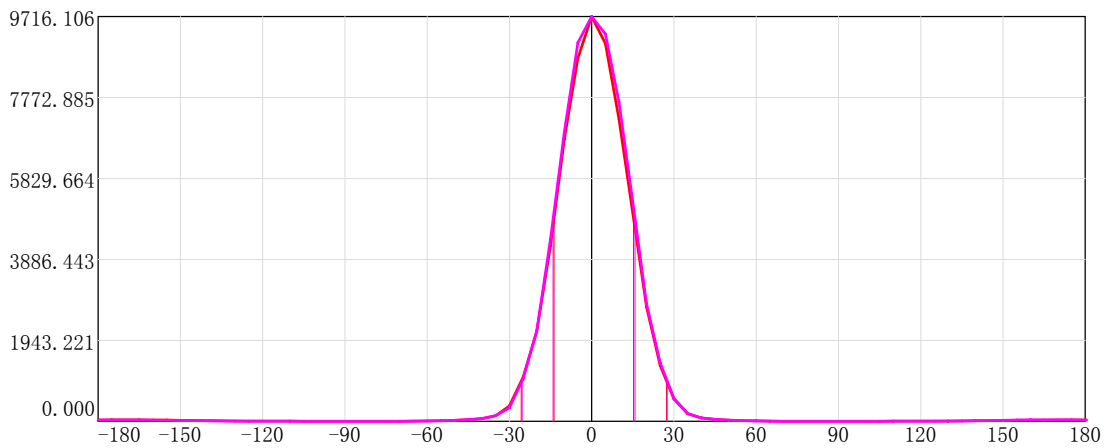
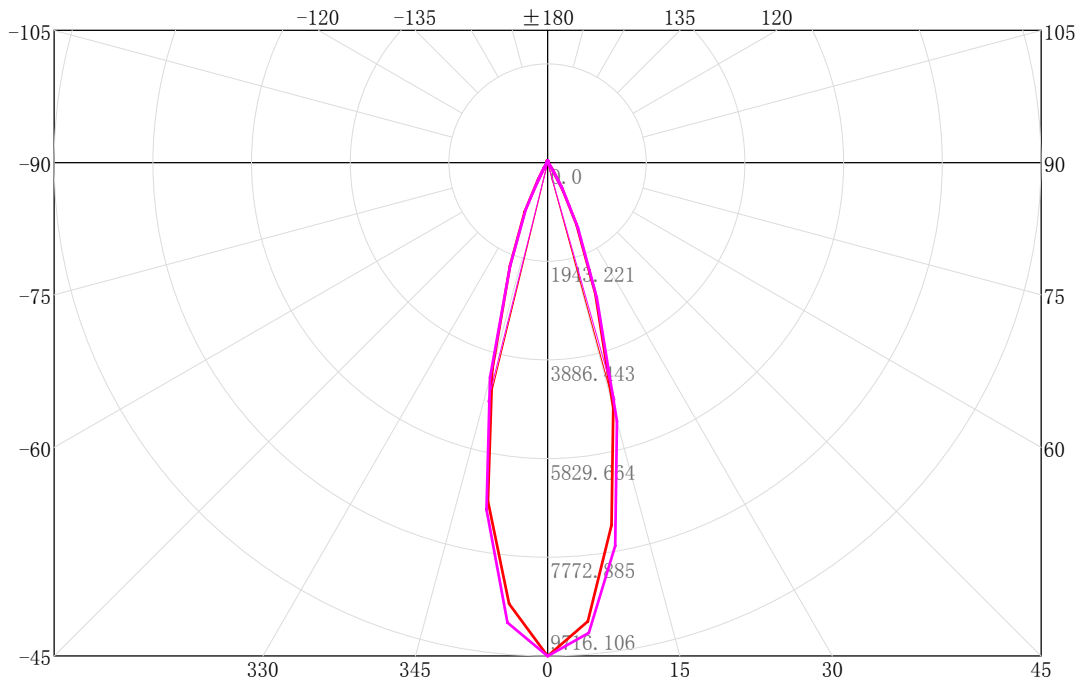
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2964.680	Luminaire Flux(lm): 2964.675	Field Angle(10%Imax): 53.0(°)	
Rated Power(W): 40	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 2889.173lm 97.45%	
Rated Voltage(V): 120	Luminaire EER(lm/W): 48.777	Up Lumens&Percent: 75.502lm 2.55%	
Tested Power(W): 60.780	Max. Candela(cd): 9716.106	S/MH: C0_a180=0.485 C90_270=0.500	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):120.3, 0.511, 0.987	Beam Angle(50%Imax): 29.1(°)	ErP φ use(90°): 2827.777lm	
Lamp Size (W*L*H):0.159m*0.441m*0.096m	Left=-13.7°, Right=15.3°	IRF(%): 668.845	



2D Plane Light Intensity Distribution Curve

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

C Plane Distribution Diagram

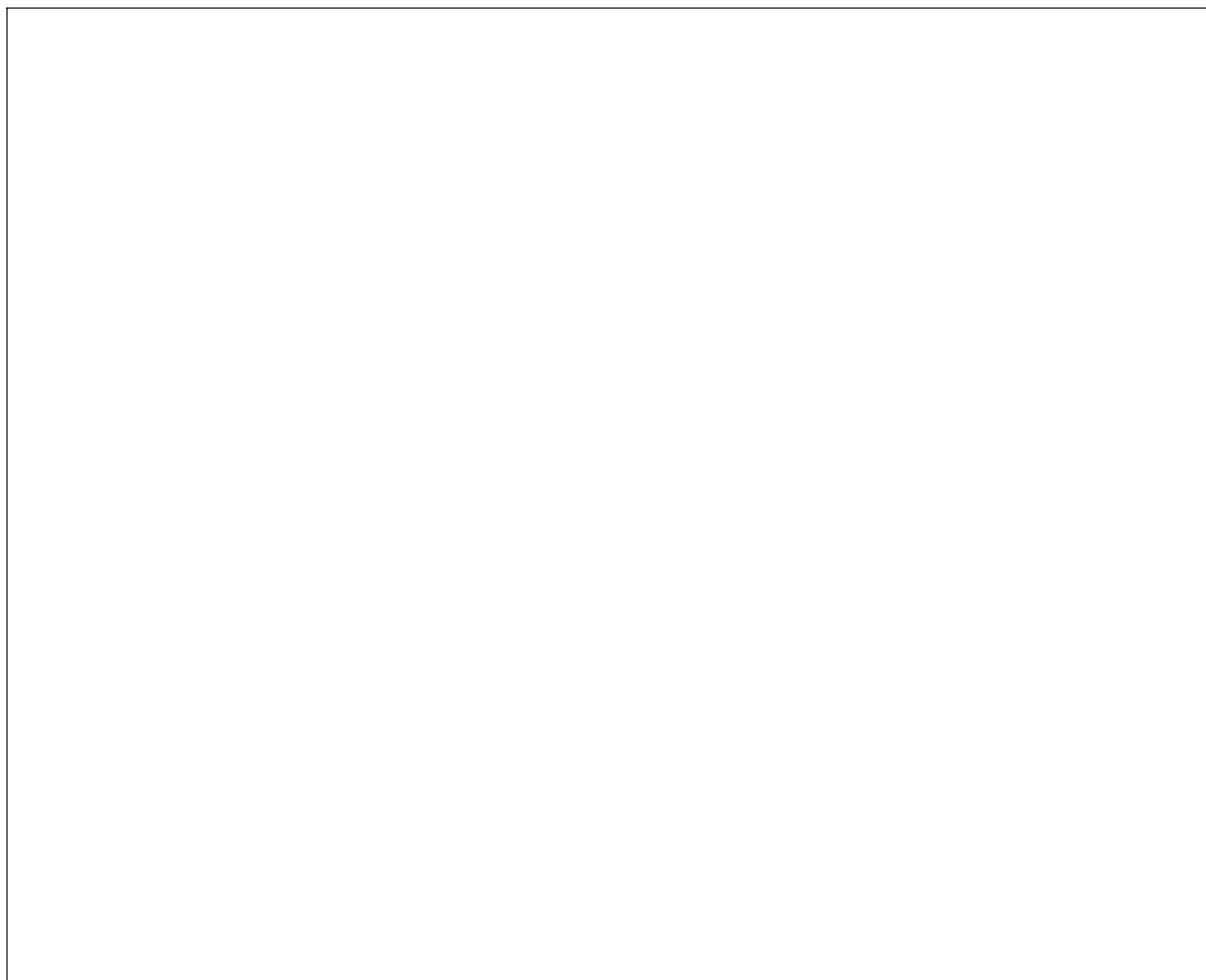


C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 — C0.0_180.0 : 29.1 53.0
 — C90.0_270.0 : 29.9 52.9

3D Light Intensity Distribution Modal

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

3D Light Intensity Distribution Modal



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

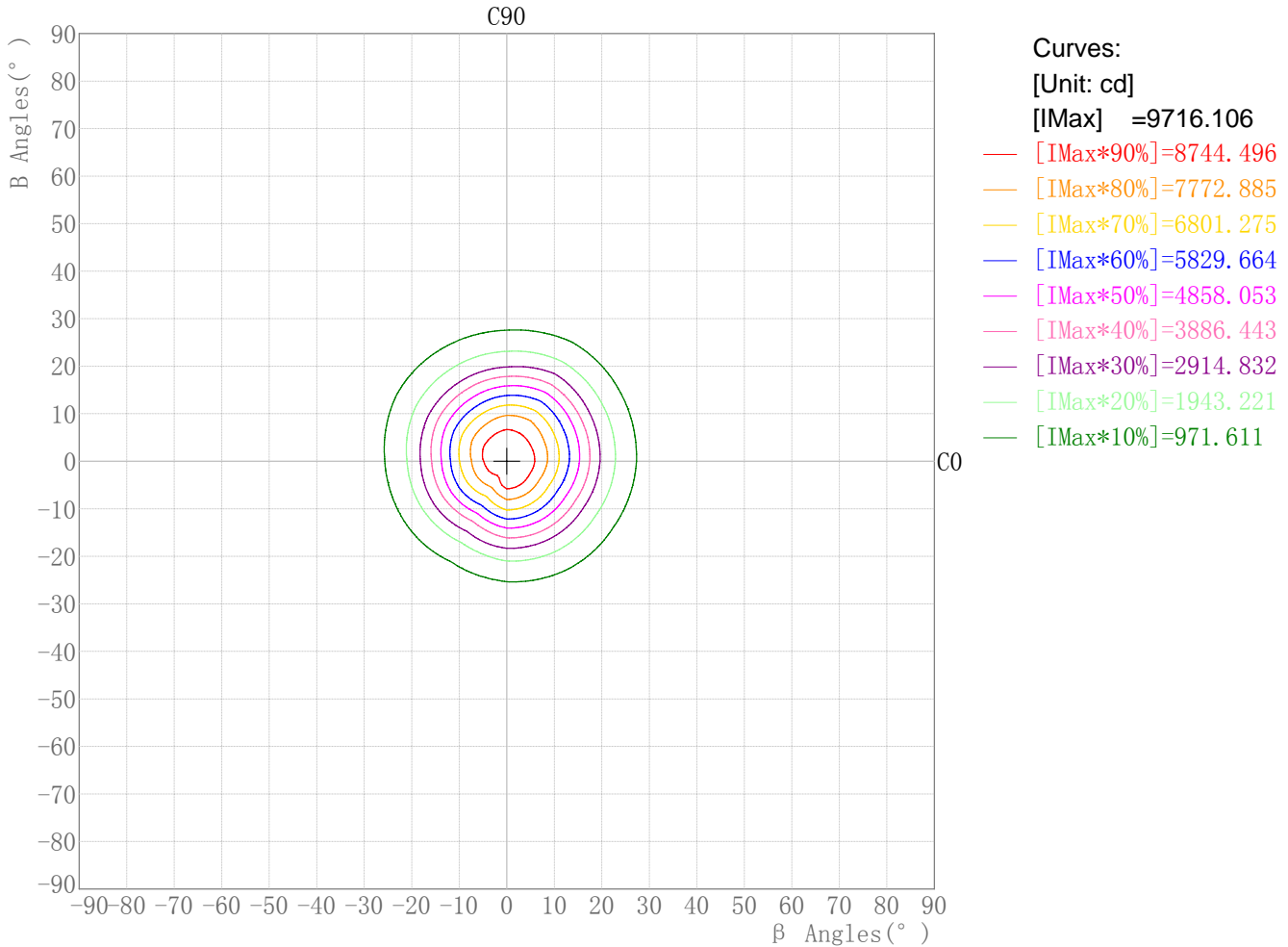
Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	223.13	223.13	7.53	7.53
5.0-10.0	573.36	796.49	19.34	26.87
10.0-15.0	697.24	1493.73	23.52	50.38
15.0-20.0	588.71	2082.44	19.86	70.24
20.0-25.0	384.80	2467.23	12.98	83.22
25.0-30.0	208.76	2675.99	7.04	90.26
30.0-35.0	90.60	2766.59	3.06	93.32
35.0-40.0	41.59	2808.18	1.40	94.72
40.0-45.0	24.51	2832.69	0.83	95.55
45.0-50.0	16.26	2848.95	0.55	96.10
50.0-55.0	11.35	2860.31	0.38	96.48
55.0-60.0	7.97	2868.28	0.27	96.75
60.0-65.0	5.35	2873.63	0.18	96.93
65.0-70.0	3.54	2877.18	0.12	97.05
70.0-75.0	2.93	2880.11	0.10	97.15
75.0-80.0	2.98	2883.09	0.10	97.25
80.0-85.0	3.03	2886.12	0.10	97.35
85.0-90.0	3.06	2889.17	0.10	97.45
90.0-95.0	3.07	2892.24	0.10	97.56
95.0-100.0	3.07	2895.32	0.10	97.66
100.0-105.0	3.06	2898.37	0.10	97.76
105.0-110.0	3.04	2901.42	0.10	97.87
110.0-115.0	3.05	2904.46	0.10	97.97
115.0-120.0	3.12	2907.58	0.11	98.07
120.0-125.0	3.35	2910.93	0.11	98.19
125.0-130.0	3.81	2914.74	0.13	98.32
130.0-135.0	4.51	2919.25	0.15	98.47
135.0-140.0	5.39	2924.64	0.18	98.65
140.0-145.0	6.27	2930.90	0.21	98.86
145.0-150.0	6.90	2937.80	0.23	99.09
150.0-155.0	7.07	2944.87	0.24	99.33
155.0-160.0	6.64	2951.51	0.22	99.56
160.0-165.0	5.62	2957.13	0.19	99.75
165.0-170.0	4.17	2961.30	0.14	99.89
170.0-175.0	2.53	2963.83	0.09	99.97
175.0-180.0	0.85	2964.68	0.03	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

ISO Lighting Intensity Curve

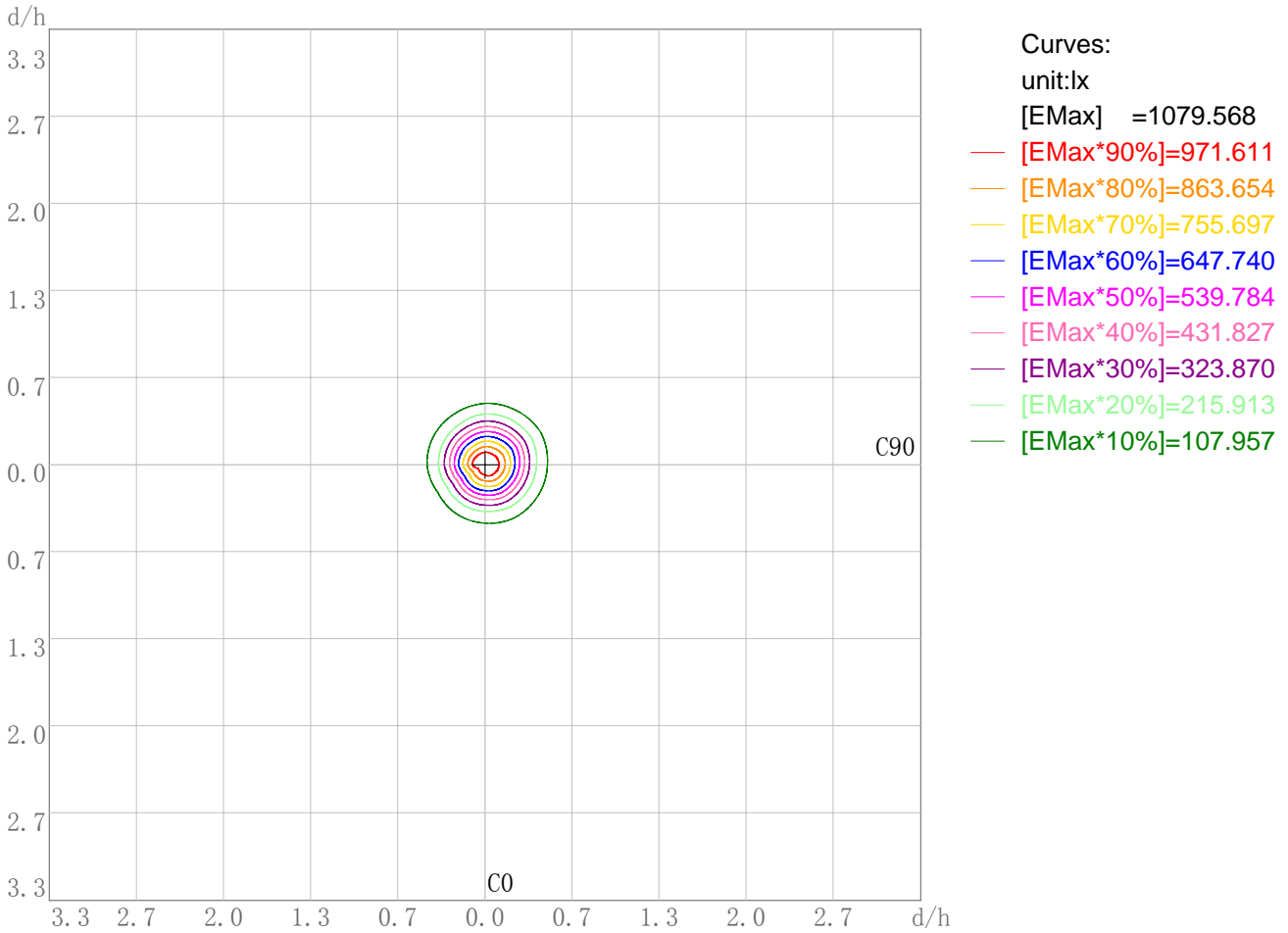


Maximum Light Intensity(cd): 9716.11
Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

Plane ISO-Illuminance Curve

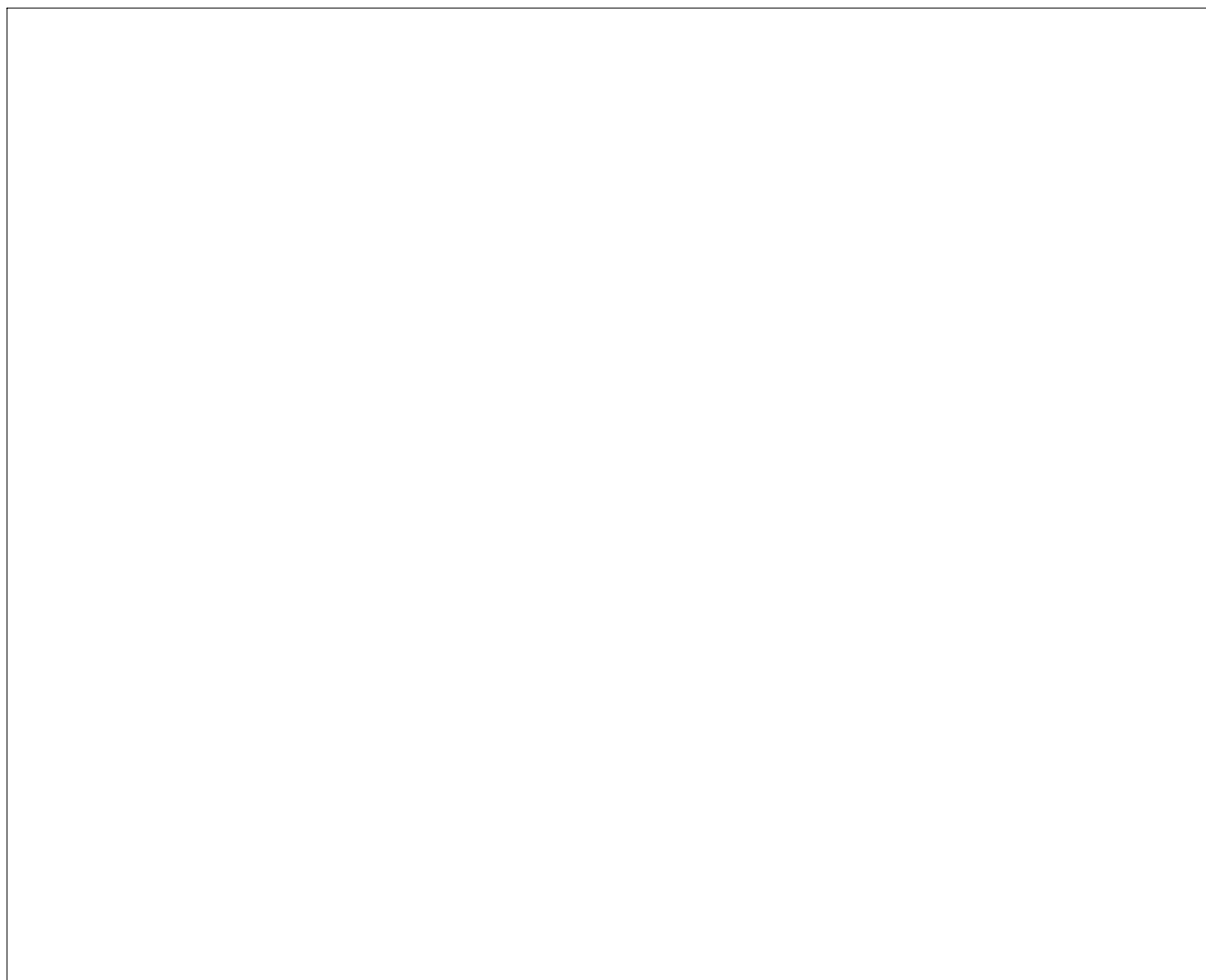


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 1079.57
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

3D Plane Illuminance Modal

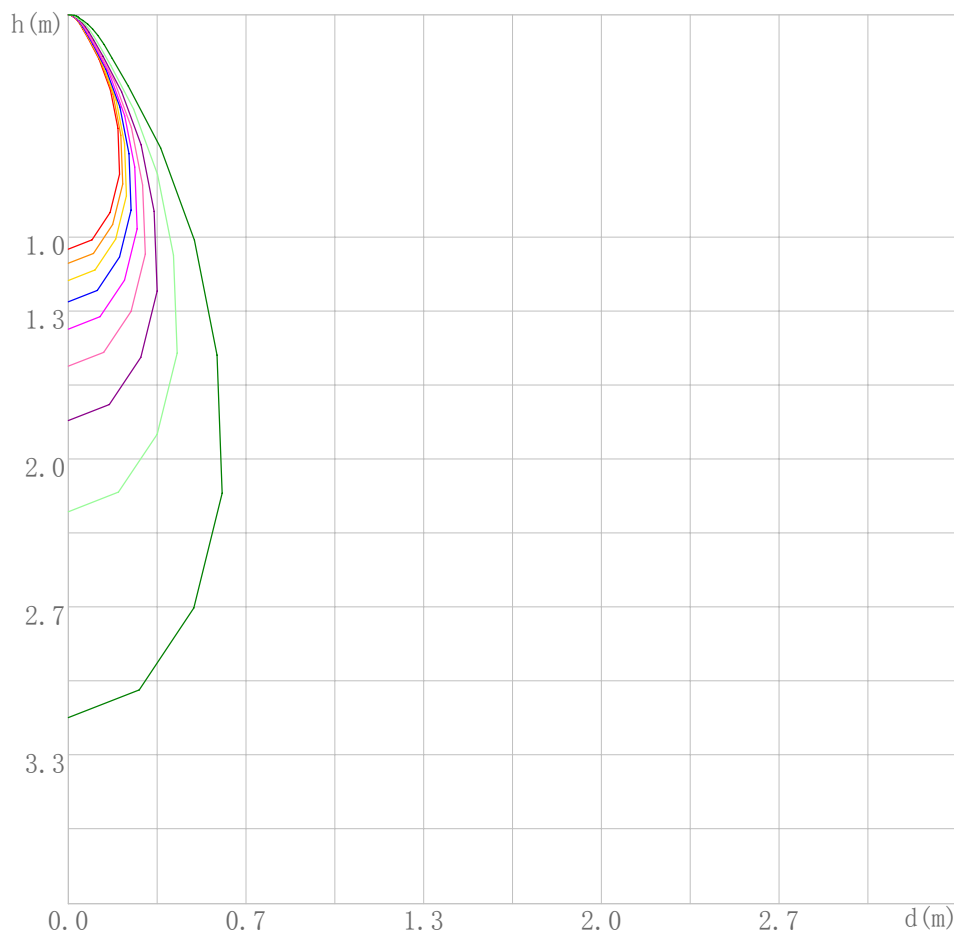


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

Space ISO Illuminance Curve



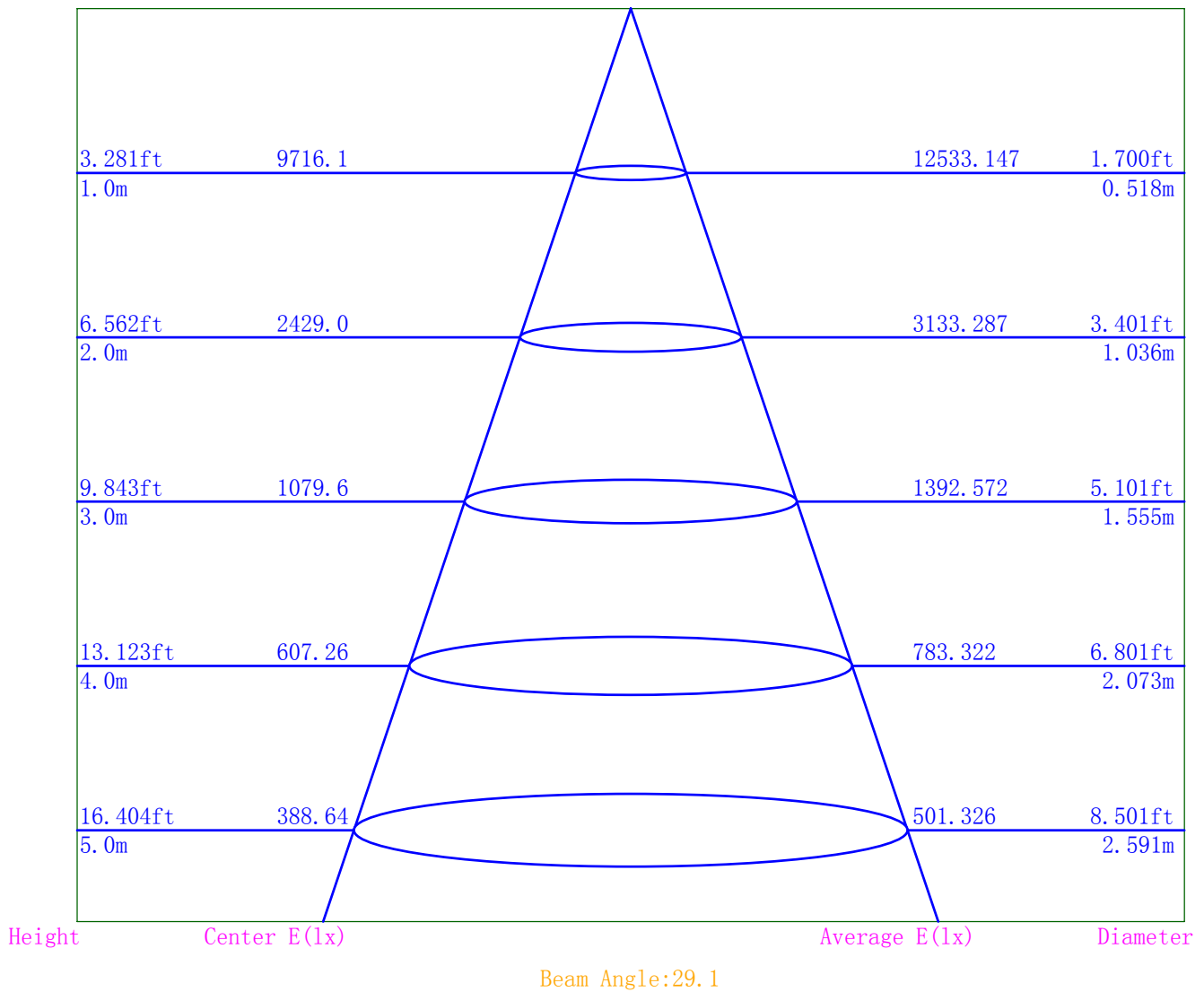
- Curves:
 [Unit: lx]
 [EMax] =9716.106
- [EMax*90%]=8744.496
 - [EMax*80%]=7772.885
 - [EMax*70%]=6801.275
 - [EMax*60%]=5829.664
 - [EMax*50%]=4858.053
 - [EMax*40%]=3886.443
 - [EMax*30%]=2914.832
 - [EMax*20%]=1943.221
 - [EMax*10%]=971.611

Space Plane Maximum Illuminance and @Angle:9716.11lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:9716.106cd,0deg

Illuminance-Distance Diagram

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

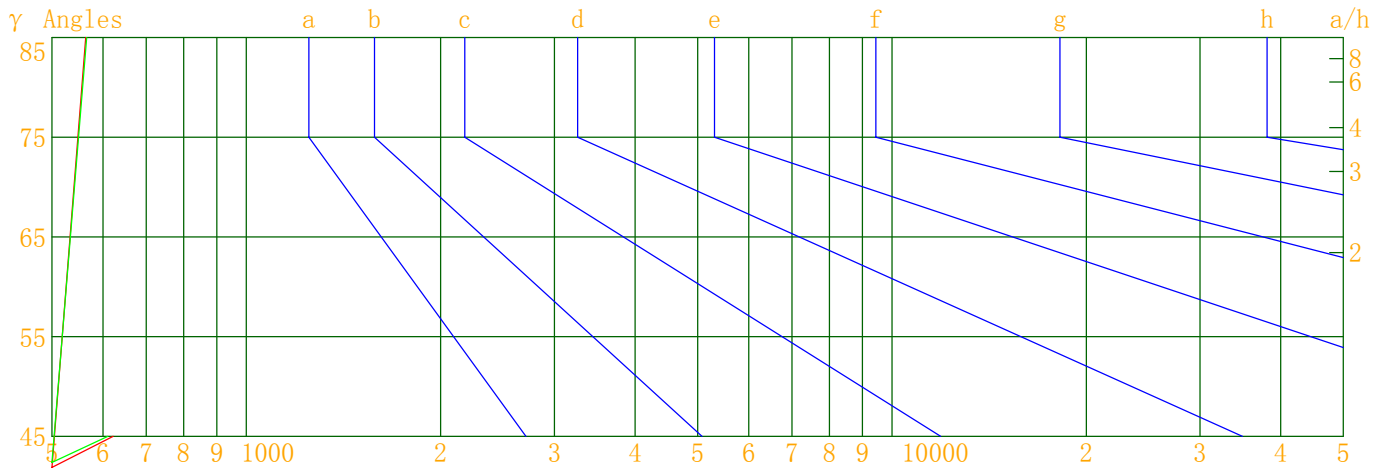
Glare Grade Table

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	622	439	326	244	175	144	189	284	564
C90	610	418	304	222	155	145	190	282	566

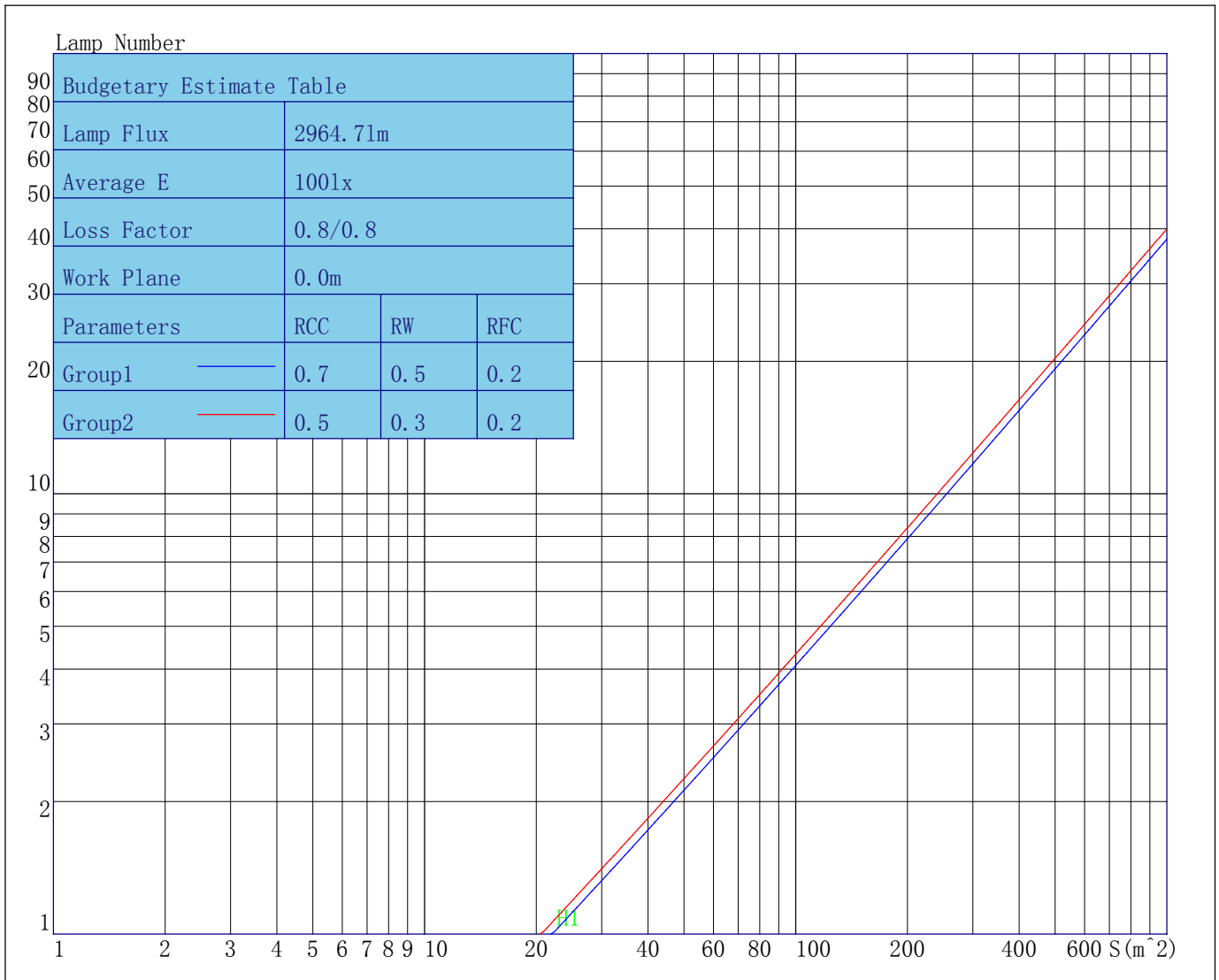
Luminance Limiting Curve



Luminous Size: Length(m)=0.441 Width(m)=0.159 Height(m)=0.096 Area(m²)=0.112455
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09



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-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

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	110	110	110	104	104	104	100	100	100	97			
1	114	112	109	108	111	109	107	106	105	103	102	101	99	98	97	96	95	93			
2	110	106	102	100	107	104	101	98	100	98	96	97	95	93	94	92	91	89			
3	106	100	96	93	104	99	95	92	96	93	91	93	91	89	91	89	87	86			
4	102	96	91	88	100	95	91	87	92	89	86	90	87	85	88	86	84	82			
5	98	92	87	84	97	91	86	83	89	85	82	87	84	81	85	83	81	79			
6	95	88	83	80	94	87	83	80	86	82	79	84	81	78	83	80	78	76			
7	92	85	80	77	91	84	80	77	83	79	76	81	78	75	80	77	75	74			
8	89	82	77	74	88	81	77	74	80	76	73	79	75	73	78	75	72	71			
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	75	72	70	69			
10	84	76	72	69	83	76	71	69	75	71	68	74	70	68	73	70	68	67			

Unified Glare Rating Table

Lum. Name: LG-7060AJ	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

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	-0.9	-0.3	-1.2	-0.6	-0.4	-0.5	0.1	-0.8	-0.2	0.0
Y=3H	-0.8	-0.3	-1.1	-0.5	-0.2	-0.4	0.1	-0.7	-0.2	0.1
Y=4H	-0.7	-0.2	-0.9	-0.4	-0.1	-0.3	0.2	-0.6	-0.0	0.3
Y=6H	-0.3	0.1	-0.5	-0.0	0.3	-0.0	0.4	-0.2	0.3	0.6
Y=8H	-0.0	0.5	-0.1	0.3	0.7	0.3	0.7	0.1	0.6	0.9
Y=12H	0.5	0.9	0.4	0.8	1.2	0.7	1.2	0.6	1.1	1.4
X=4H Y=2H	-1.1	-0.6	-1.4	-0.9	-0.5	-0.8	-0.2	-1.0	-0.5	-0.2
Y=3H	-1.1	-0.6	-1.2	-0.7	-0.4	-0.7	-0.3	-0.8	-0.4	-0.0
Y=4H	-0.9	-0.5	-0.9	-0.5	-0.1	-0.6	-0.2	-0.6	-0.2	0.2
Y=6H	-0.4	-0.0	-0.3	0.0	0.5	-0.1	0.3	-0.0	0.3	0.7
Y=8H	0.1	0.4	0.2	0.5	1.0	0.3	0.7	0.4	0.8	1.2
Y=12H	0.8	1.1	1.0	1.3	1.8	1.0	1.3	1.2	1.5	2.0
X=8H Y=4H	1.7	2.0	1.8	2.1	2.6	2.0	2.3	2.1	2.4	2.9
Y=6H	2.0	2.3	2.2	2.5	3.0	2.3	2.6	2.5	2.8	3.3
Y=8H	2.4	2.7	2.7	2.9	3.5	2.7	2.9	2.9	3.2	3.7
Y=12H	3.1	3.3	3.4	3.6	4.2	3.3	3.5	3.6	3.8	4.4
X=12H Y=4H	1.7	2.0	1.8	2.1	2.6	2.0	2.3	2.2	2.5	2.9
Y=6H	2.2	2.4	2.4	2.7	3.2	2.4	2.7	2.7	2.9	3.5
Y=8H	2.7	2.9	3.0	3.2	3.7	2.9	3.1	3.2	3.4	4.0
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	2.9					2.8				

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

IES Indoor Report
Photometric Filename:LG-7060AJ.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	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11	9716.11
γ 5.0	9068.11	9059.64	9145.28	9295.90	9105.10	8996.87	8717.58	8576.67	8334.03	9091.60	9038.21	8950.57
γ 10.0	7248.61	7438.59	7734.25	7662.43	7402.49	7242.76	6768.46	6547.21	6150.23	6933.88	6924.05	6899.01
γ 15.0	4997.47	5244.23	5612.91	5273.13	4936.13	4736.11	4217.66	3996.86	3621.51	4378.15	4511.29	4571.63
γ 20.0	2745.82	2943.22	3214.39	2828.02	2616.22	2486.02	2161.06	1999.77	1768.14	2169.35	2299.74	2390.29
γ 25.0	1343.05	1423.95	1569.34	1410.34	1328.93	1273.46	1063.66	931.74	782.00	1020.44	1107.91	1149.55
γ 30.0	537.46	598.21	682.15	558.64	499.73	471.86	374.19	322.75	259.15	327.76	356.75	402.52
γ 35.0	182.55	209.48	234.66	191.81	176.26	170.93	132.55	135.65	118.93	136.40	146.76	155.59
γ 40.0	82.98	100.80	110.61	84.74	91.69	86.06	67.70	73.35	67.13	69.48	81.33	83.84
γ 45.0	49.46	56.84	62.48	48.52	53.27	49.96	40.99	44.23	41.16	42.21	49.32	50.59
γ 50.0	31.70	35.99	38.37	30.20	33.65	31.99	26.28	28.91	27.23	27.19	31.98	33.07
γ 55.0	21.05	24.41	25.13	19.59	22.01	21.38	17.20	19.34	18.29	17.77	21.36	22.54
γ 60.0	13.74	16.50	16.64	12.50	14.46	13.96	10.97	12.67	11.98	11.26	14.19	15.05
γ 65.0	8.32	10.51	10.61	7.38	8.91	8.68	6.39	7.74	7.15	6.31	8.73	9.46
γ 70.0	5.53	5.93	5.96	5.58	5.63	5.51	5.55	5.55	5.67	5.63	5.52	5.66
γ 75.0	5.50	5.56	5.54	5.52	5.64	5.50	5.58	5.54	5.76	5.68	5.52	5.60
γ 80.0	5.54	5.57	5.56	5.51	5.63	5.48	5.61	5.49	5.75	5.64	5.47	5.59
γ 85.0	5.53	5.52	5.59	5.55	5.59	5.56	5.55	5.50	5.71	5.61	5.48	5.58
γ 90.0	5.62	5.66	5.60	5.51	5.53	5.59	5.59	5.57	5.72	5.62	5.51	5.63
γ 95.0	5.58	5.66	5.60	5.55	5.63	5.64	5.60	5.57	5.78	5.64	5.53	5.68
γ 100.0	5.60	5.73	5.58	5.62	5.72	5.63	5.67	5.67	5.86	5.74	5.65	5.70
γ 105.0	5.72	5.82	5.70	5.65	5.72	5.68	5.75	5.77	5.91	5.75	5.73	5.74
γ 110.0	5.82	5.88	5.79	5.83	5.88	5.86	5.98	5.94	6.13	5.95	5.78	5.94
γ 115.0	5.99	6.04	5.99	6.01	6.10	6.12	6.25	6.27	6.50	6.11	6.09	6.13
γ 120.0	6.45	6.41	6.26	6.57	6.71	6.74	7.04	7.04	7.34	6.60	6.55	6.57
γ 125.0	7.32	7.11	6.94	7.75	7.86	7.98	8.39	8.51	9.01	7.68	7.52	7.57
γ 130.0	8.73	8.54	8.21	9.75	9.98	10.09	10.71	10.89	11.55	9.53	9.27	9.19
γ 135.0	11.04	10.80	10.32	12.99	13.20	13.36	14.13	14.41	15.29	12.29	11.85	11.72
γ 140.0	14.29	13.87	13.37	17.38	17.58	17.76	18.39	18.93	19.95	15.86	15.44	15.14
γ 145.0	18.10	17.71	17.14	22.59	22.88	22.92	23.35	23.99	25.16	20.20	19.68	19.10
γ 150.0	22.08	21.82	21.33	28.27	28.38	28.27	28.39	29.03	30.28	24.50	24.01	23.21
γ 155.0	25.97	25.85	25.38	33.36	33.26	33.08	32.78	33.25	34.36	28.54	27.91	27.03
γ 160.0	29.25	29.18	28.96	37.11	36.71	36.44	35.85	35.88	36.68	31.62	31.11	29.93
γ 165.0	31.65	31.45	31.32	38.88	38.15	37.98	37.34	36.81	37.21	33.41	32.97	31.83
γ 170.0	33.17	32.76	32.37	38.73	37.78	37.85	37.46	36.56	36.51	34.20	33.88	32.97
γ 175.0	34.47	33.75	32.95	37.80	36.48	36.87	36.81	35.71	35.51	35.06	34.78	33.99
γ 180.0	35.72	35.72	35.72	35.72	35.72	35.72	35.72	35.72	35.72	35.72	35.72	35.72