

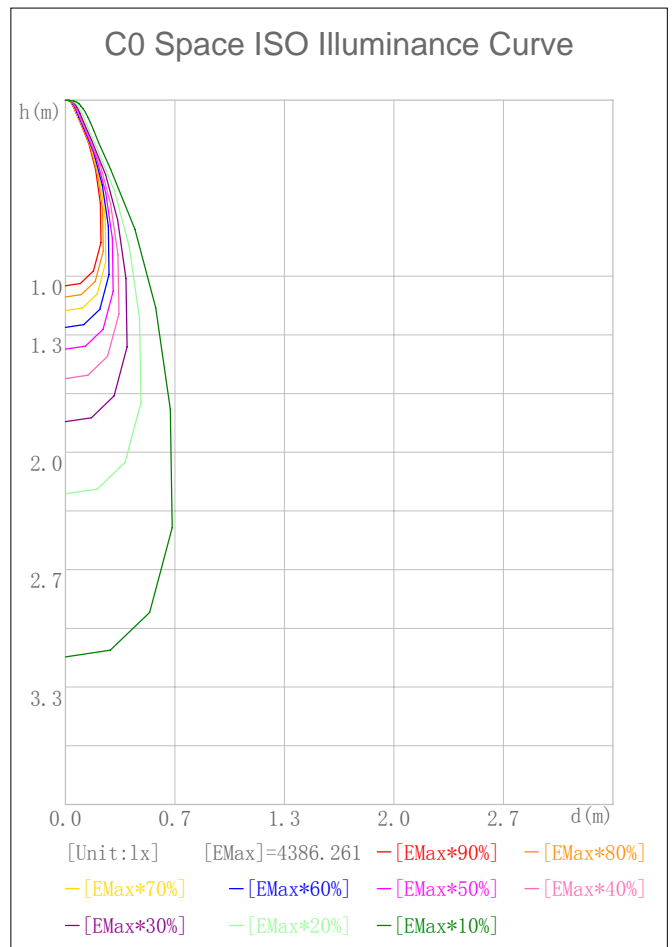
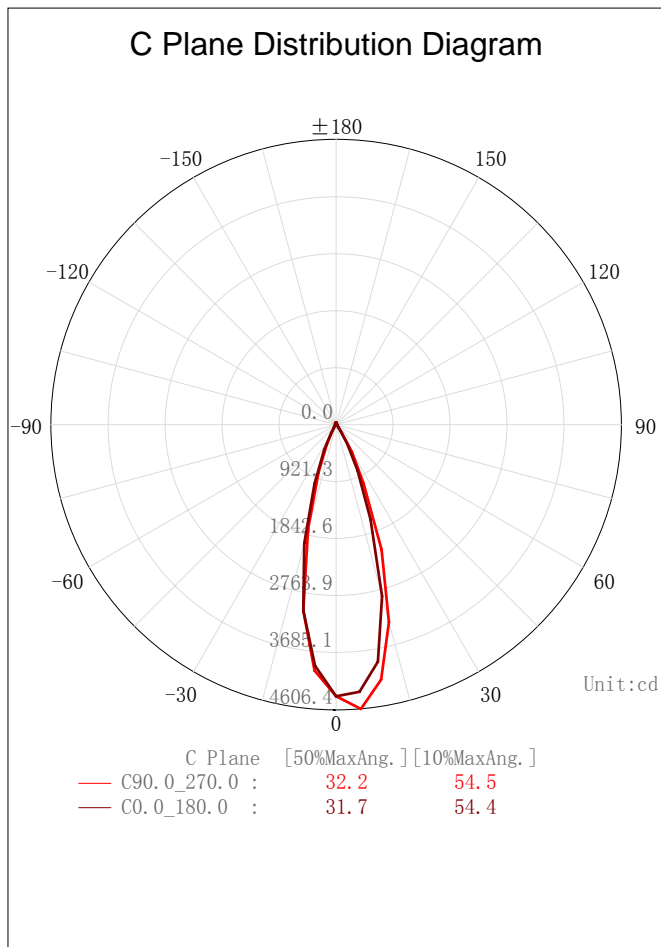
Indoor Luminaire Photometric Data

Description Information

Luminaire Name:LG-7015	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):0.045m*0.413m*0.049m	Lum. Area (m2):0.039	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

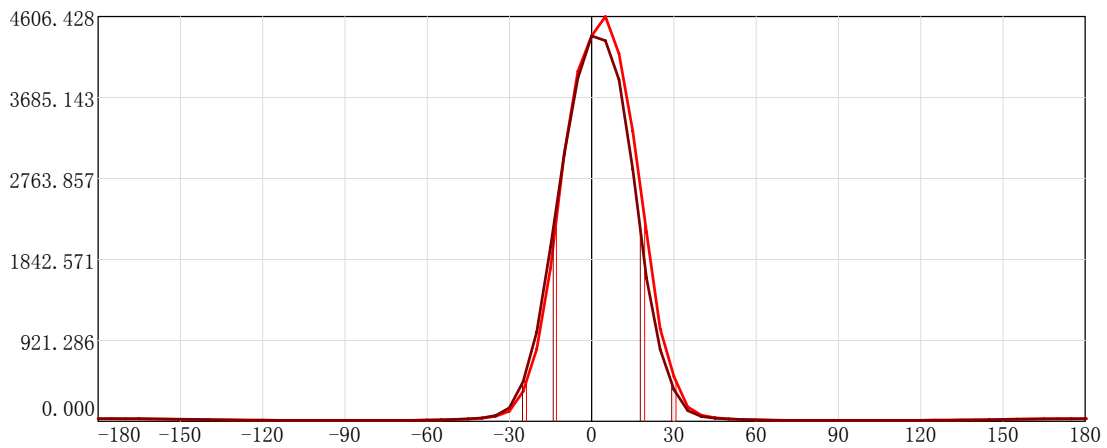
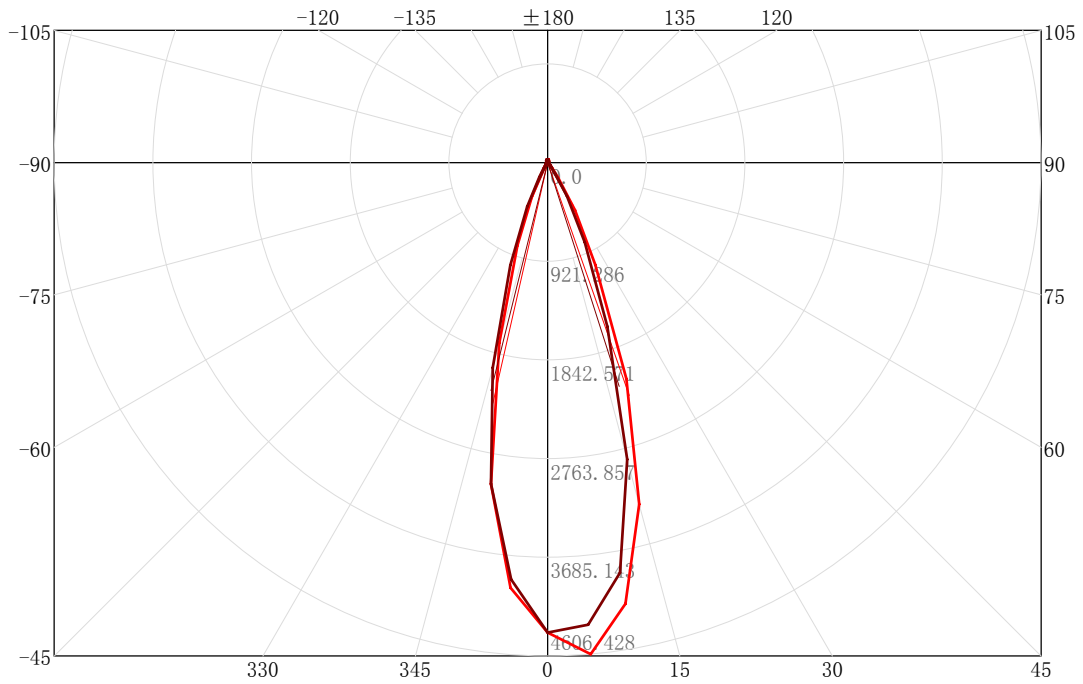
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1665.840	Luminaire Flux(lm): 1665.844	Field Angle(10%Imax): 54.5(°)	
Rated Power(W): 30	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1561.489lm 93.74%	
Rated Voltage(V): 120	Luminaire EER(lm/W): 53.911	Up Lumens&Percent: 104.354lm 6.26%	
Tested Power(W): 30.900	Max. Candela(cd): 4606.428	S/MH: C0_a180=0.532 C90_270=0.555	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):120.5, 0.282, 0.990	Beam Angle (50%Imax): 32.2(°)	ErP φ use(90°): 1482.035lm	
Lamp Size (W*L*H):0.045m*0.413m*0.049m	Left=-12.9°, Right=19.3°	IRF(%): 568.424	



2D Plane Light Intensity Distribution Curve

Lum. Name: LG-7015	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

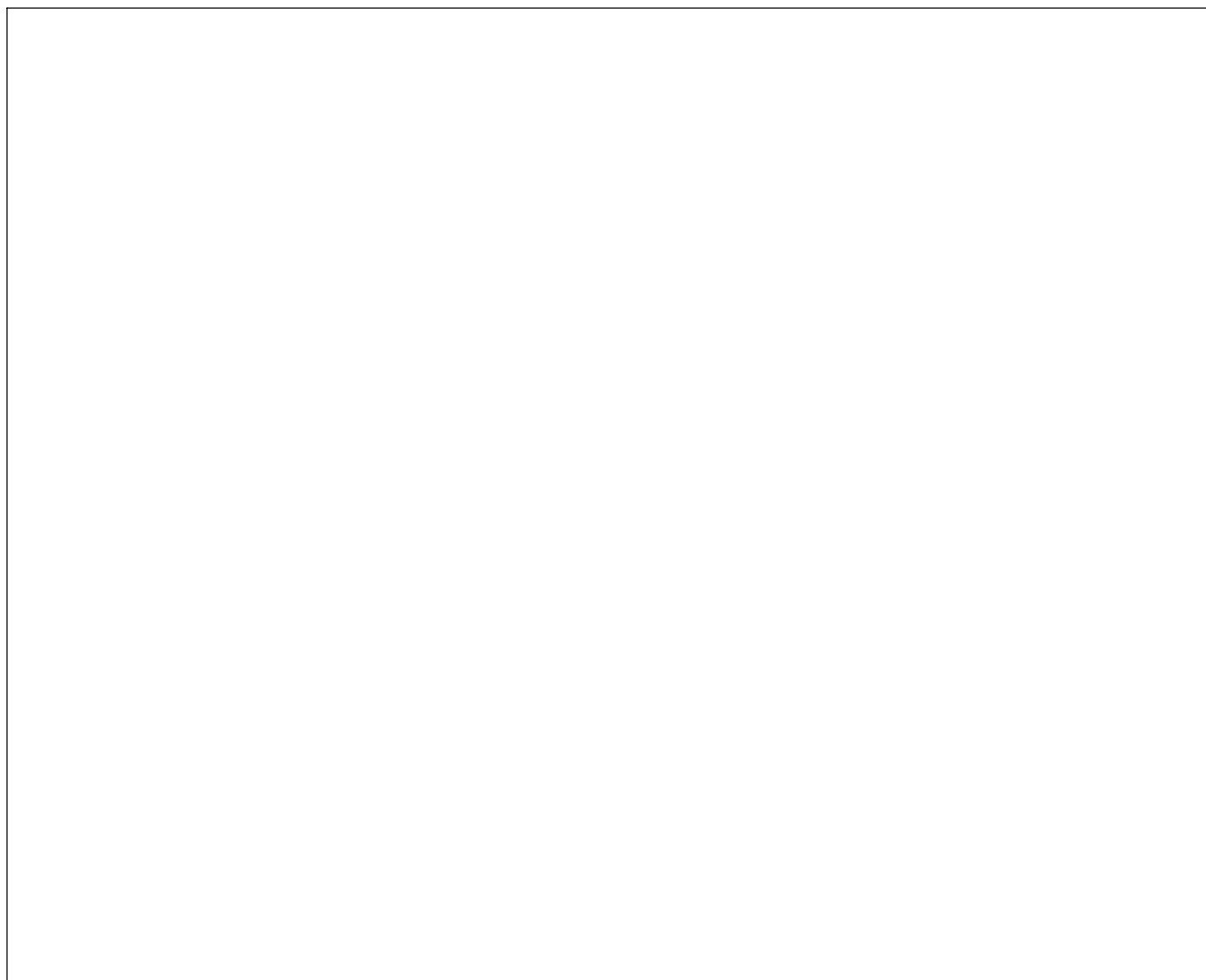


C Plane [50%MaxAng.] [10%MaxAng.] Unit:cd
 — C90.0_270.0 : 32.2 54.5
 — C0.0_180.0 : 31.7 54.4

3D Light Intensity Distribution Modal

Lum. Name: LG-7015	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

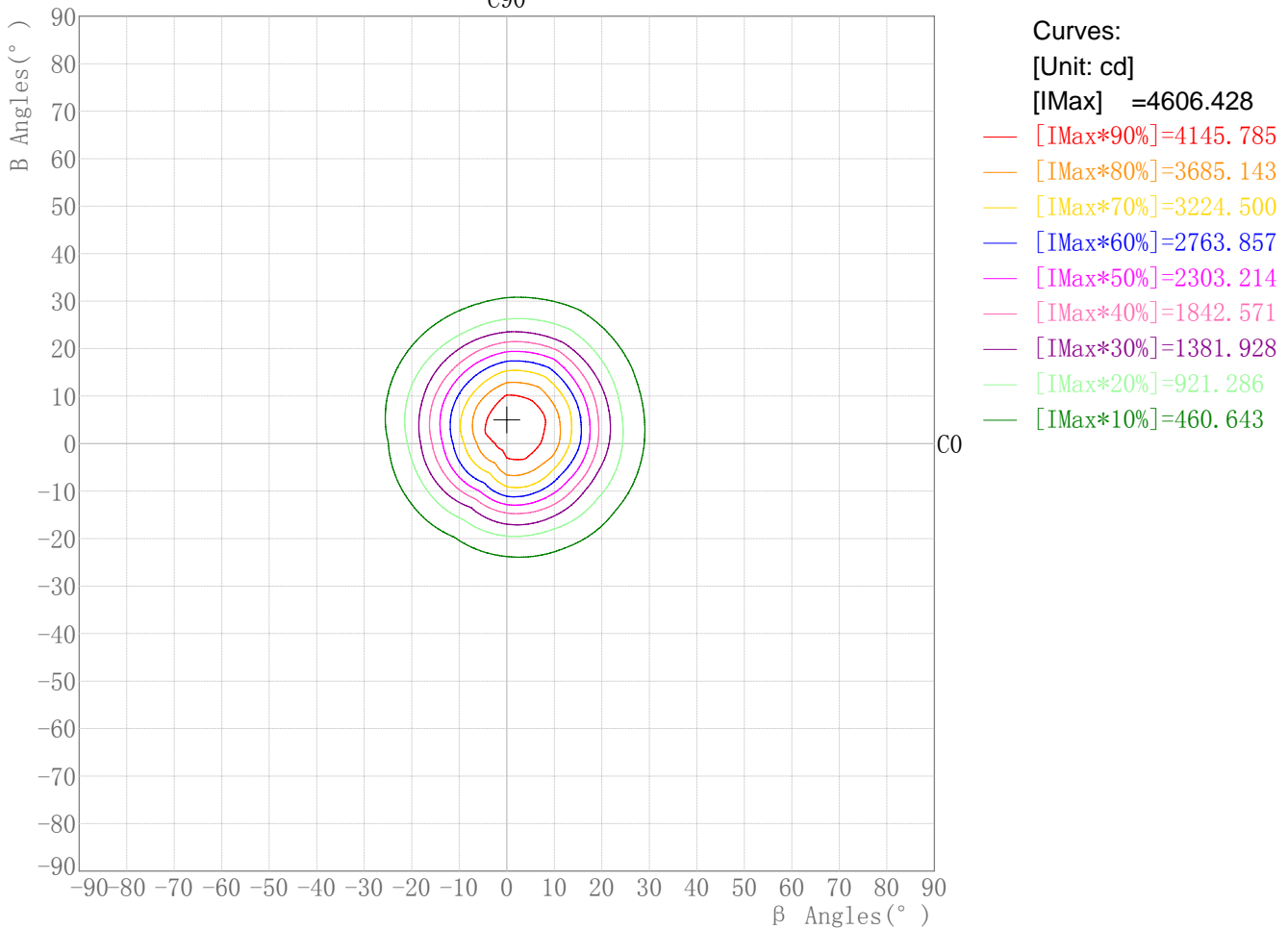
Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	102.21	102.21	6.14	6.14
5.0-10.0	274.12	376.32	16.46	22.59
10.0-15.0	352.84	729.17	21.18	43.77
15.0-20.0	317.21	1046.38	19.04	62.81
20.0-25.0	217.16	1263.54	13.04	75.85
25.0-30.0	121.08	1384.61	7.27	83.12
30.0-35.0	58.09	1442.70	3.49	86.61
35.0-40.0	27.15	1469.86	1.63	88.24
40.0-45.0	16.76	1486.61	1.01	89.24
45.0-50.0	12.55	1499.17	0.75	89.99
50.0-55.0	10.29	1509.45	0.62	90.61
55.0-60.0	8.83	1518.28	0.53	91.14
60.0-65.0	7.78	1526.06	0.47	91.61
65.0-70.0	7.10	1533.16	0.43	92.04
70.0-75.0	6.92	1540.08	0.42	92.45
75.0-80.0	7.03	1547.12	0.42	92.87
80.0-85.0	7.15	1554.27	0.43	93.30
85.0-90.0	7.22	1561.49	0.43	93.74
90.0-95.0	7.24	1568.73	0.43	94.17
95.0-100.0	7.22	1575.95	0.43	94.60
100.0-105.0	7.13	1583.08	0.43	95.03
105.0-110.0	6.98	1590.06	0.42	95.45
110.0-115.0	6.81	1596.87	0.41	95.86
115.0-120.0	6.64	1603.51	0.40	96.26
120.0-125.0	6.51	1610.02	0.39	96.65
125.0-130.0	6.47	1616.49	0.39	97.04
130.0-135.0	6.52	1623.00	0.39	97.43
135.0-140.0	6.62	1629.62	0.40	97.83
140.0-145.0	6.68	1636.30	0.40	98.23
145.0-150.0	6.61	1642.91	0.40	98.62
150.0-155.0	6.28	1649.19	0.38	99.00
155.0-160.0	5.63	1654.82	0.34	99.34
160.0-165.0	4.68	1659.50	0.28	99.62
165.0-170.0	3.48	1662.98	0.21	99.83
170.0-175.0	2.14	1665.12	0.13	99.96
175.0-180.0	0.73	1665.84	0.04	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-7015	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

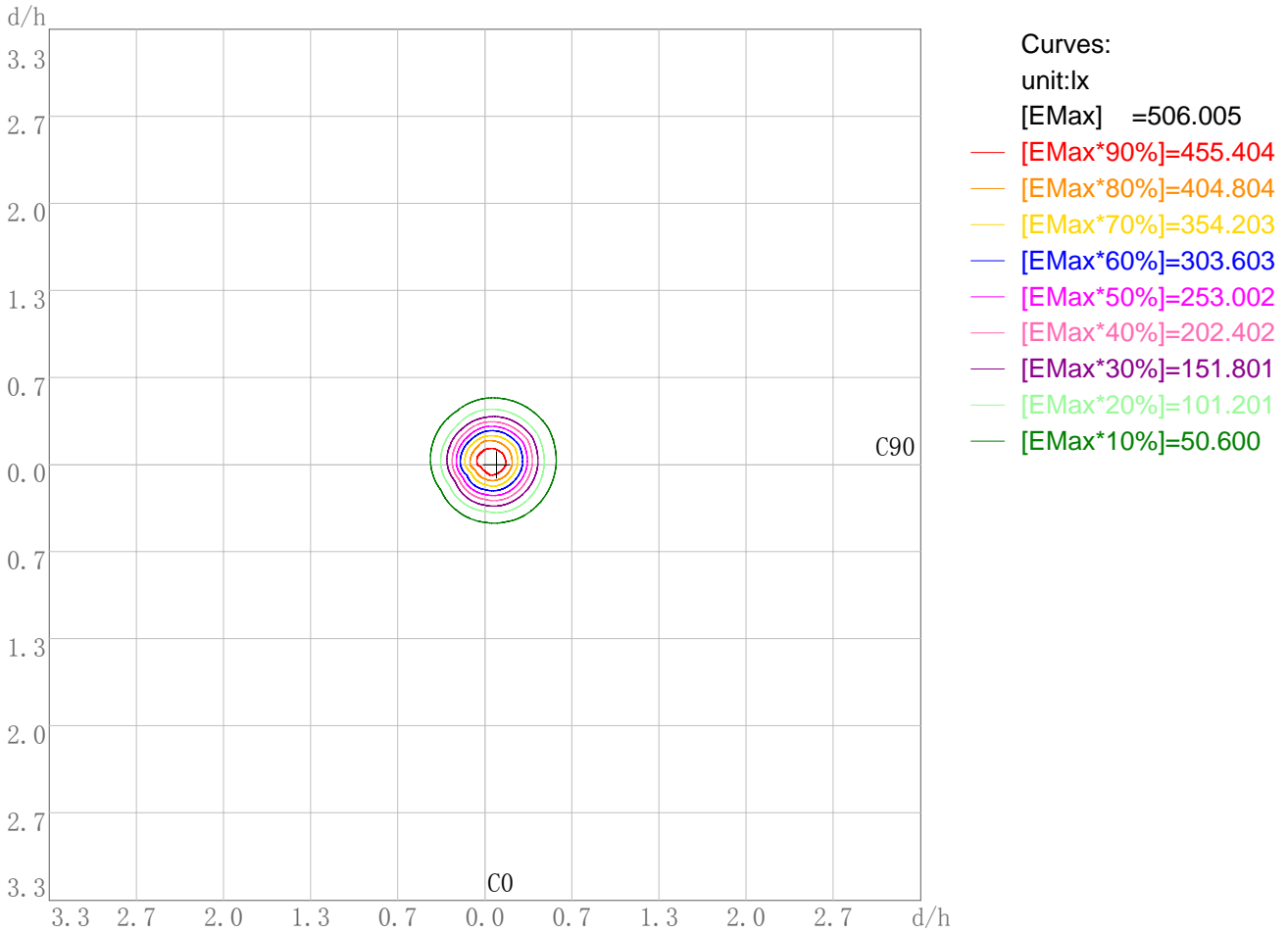


Maximum Light Intensity(cd): 4606.43
 Maximum Cand.@Angle: H=0.0°,V=5.0°

Plane ISO-Illuminance Diagram

Lum. Name: LG-7015	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

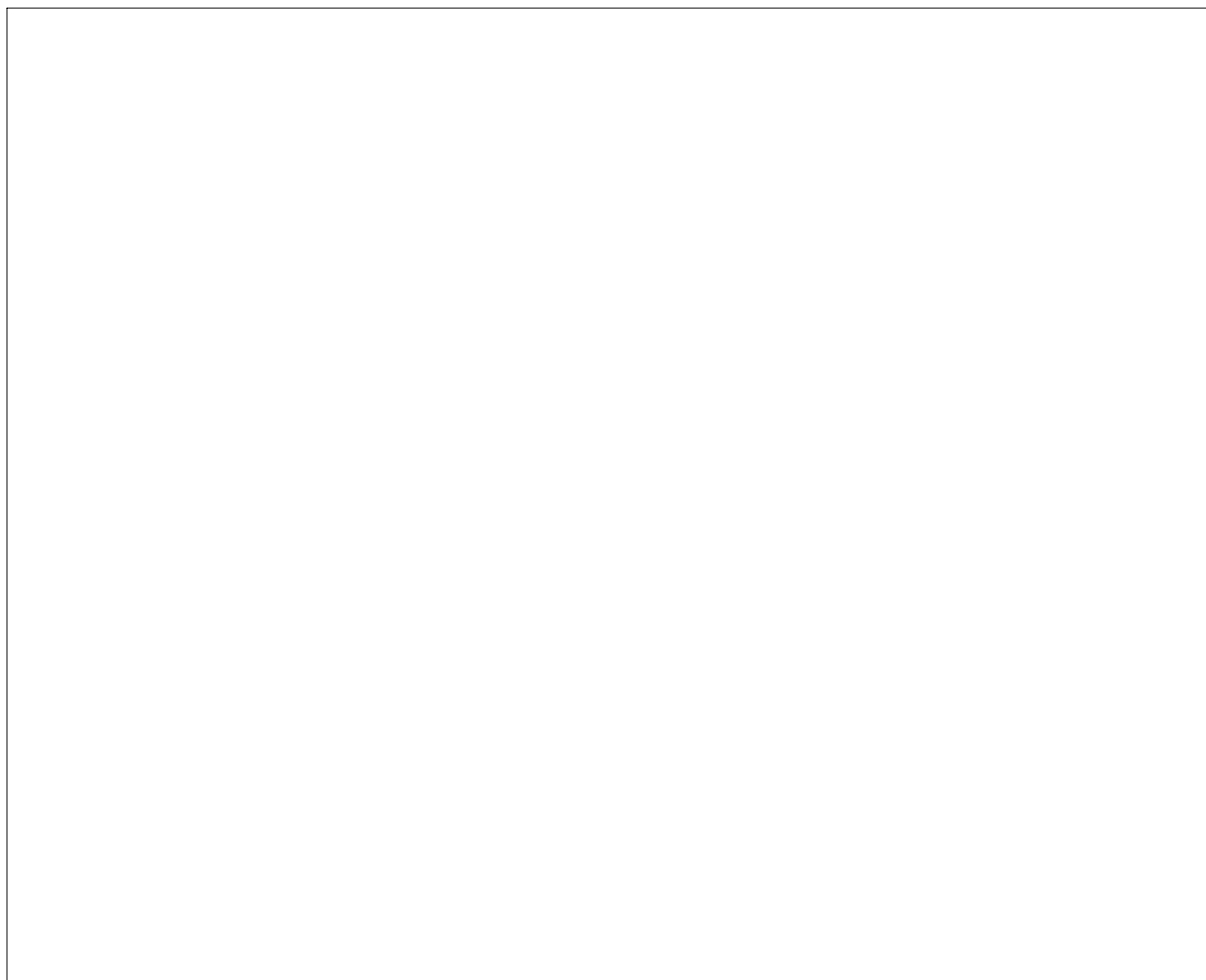


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 506.00
 Working Plane Maximum Illuminance Position(d/h):H0.1 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LG-7015	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

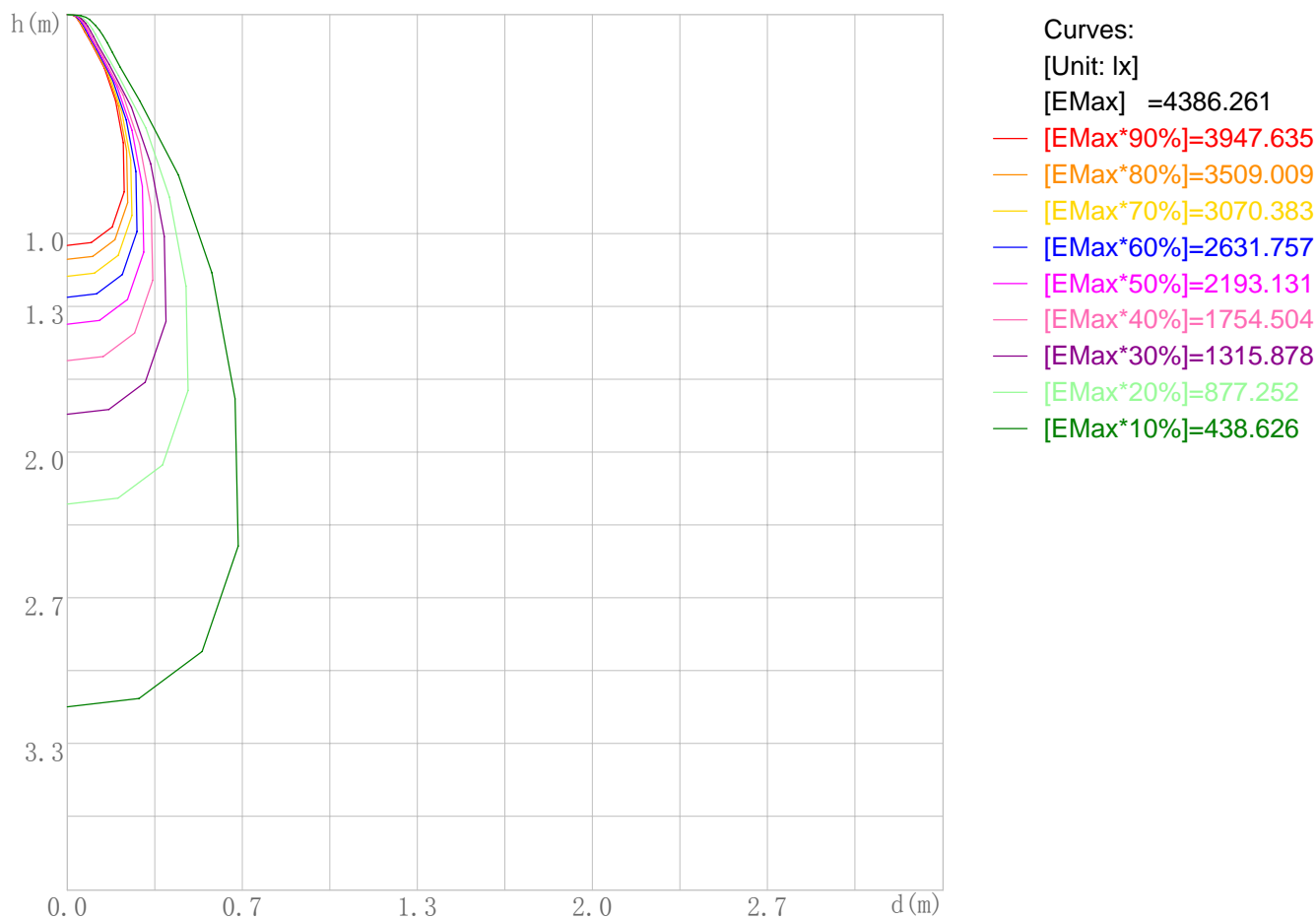


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LG-7015	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

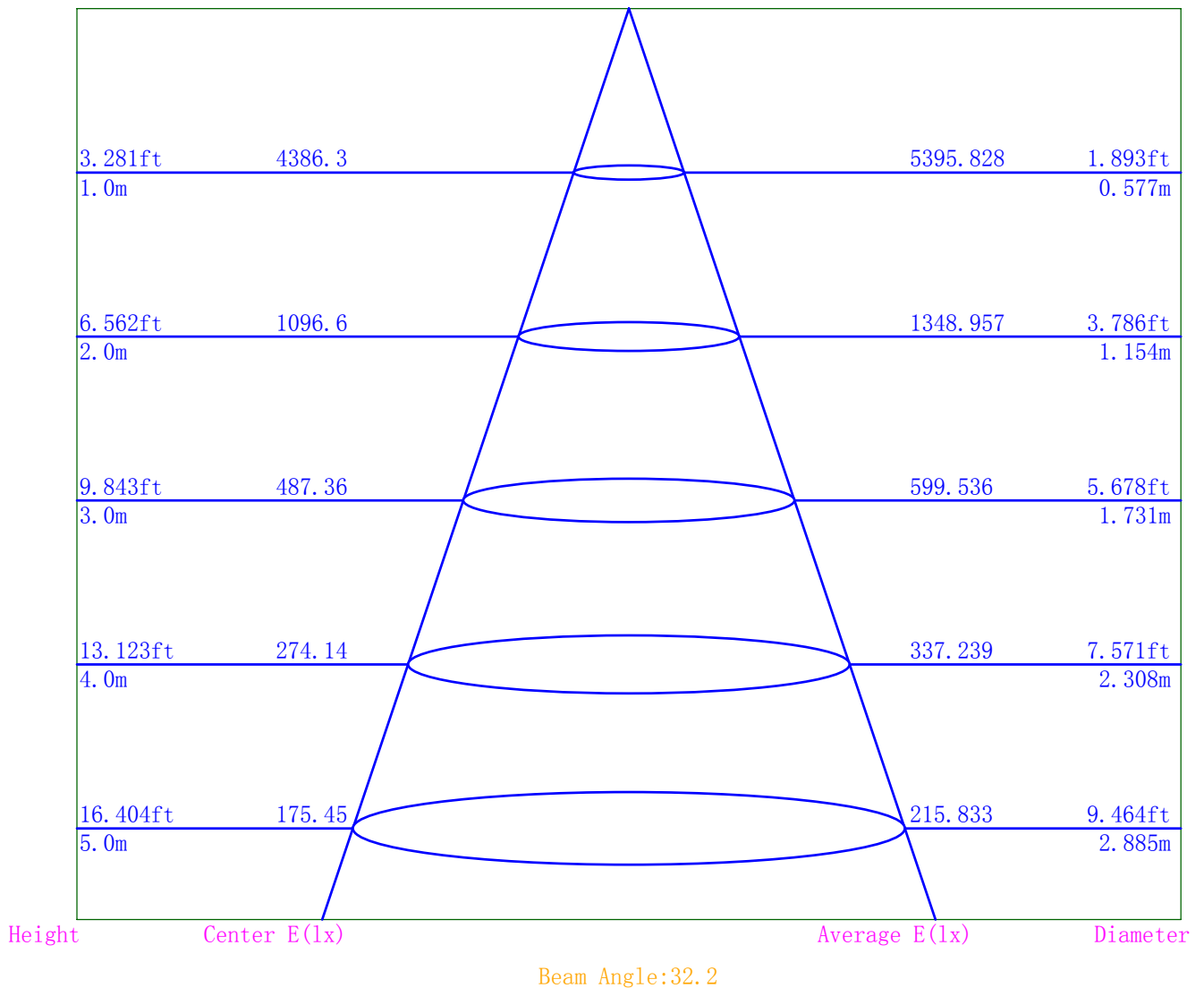


Space Plane Maximum Illuminance and @Angle:4386.26lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:4386.261cd,0deg

Illuminance-Distance Diagram

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

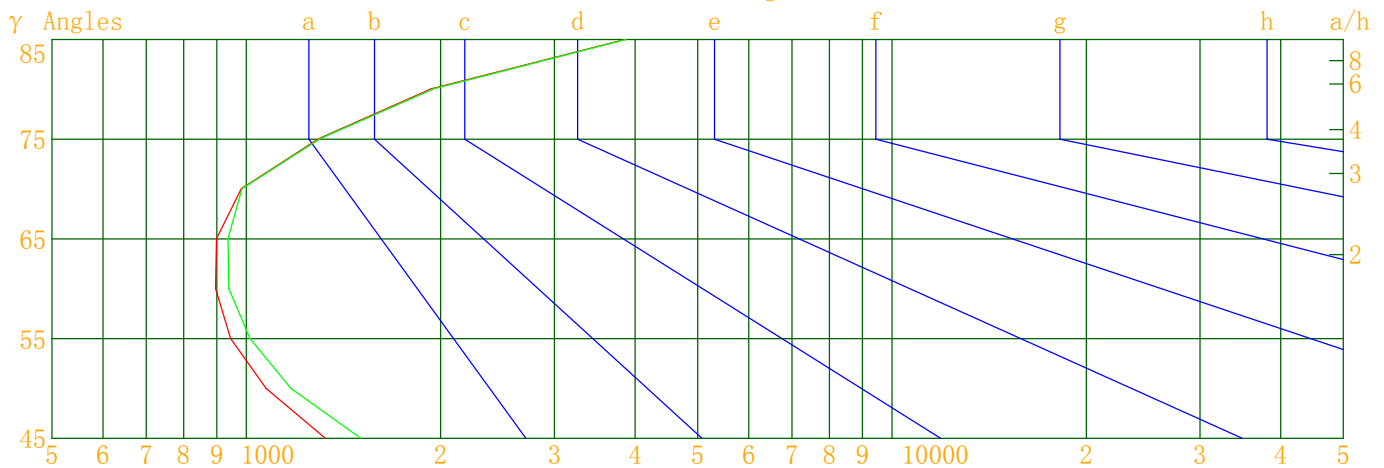
Glare Grade Table

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	1326	1073	945	896	899	982	1294	1934	3860
C90	1505	1172	1013	939	937	985	1300	1950	3870

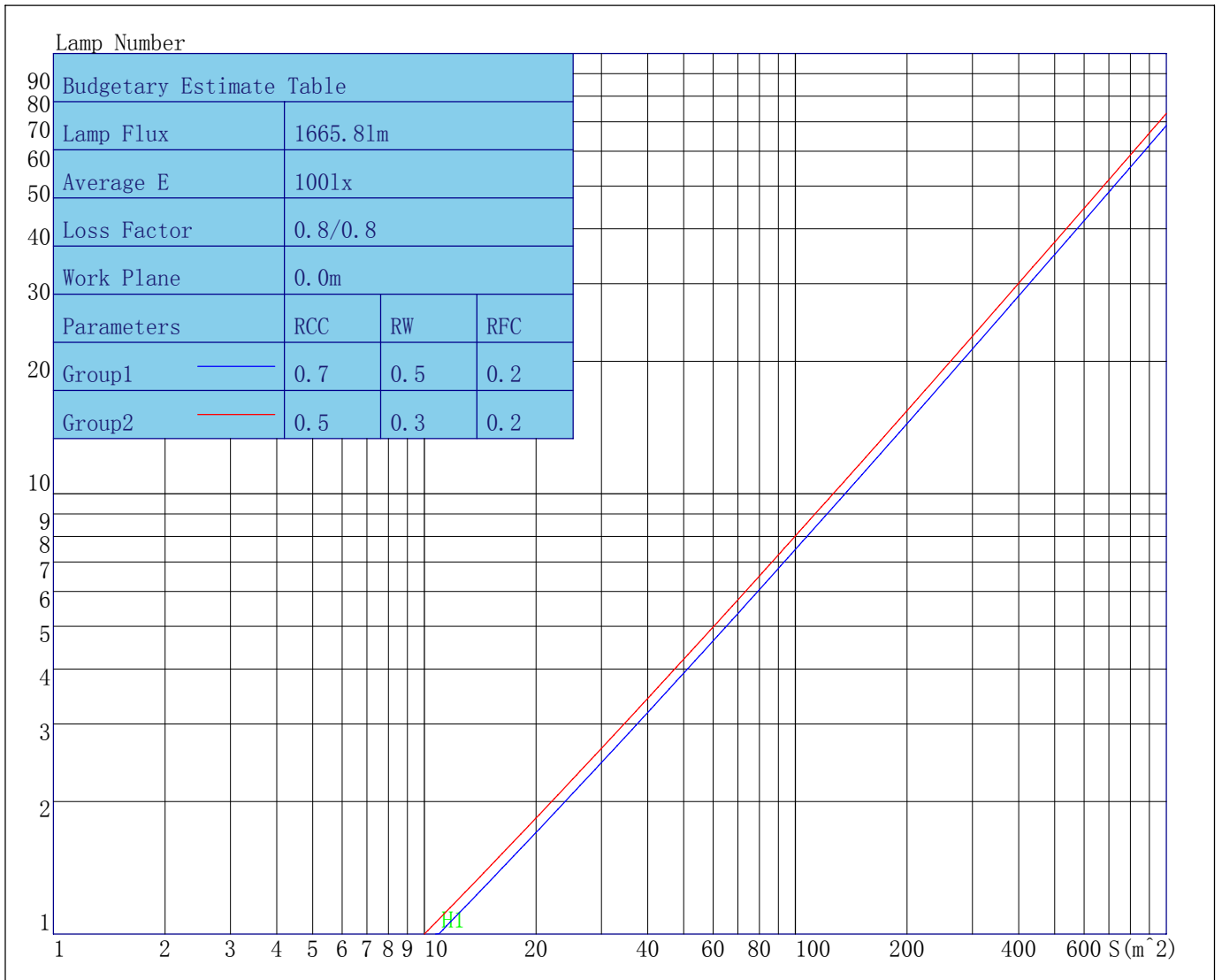
Luminance Limiting Curve



Luminous Size: Length(m)=0.413 Width(m)=0.045 Height(m)=0.049 Area(m²)=0.038822
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LG-7015	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-7015	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	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	112	110	107	105	109	107	105	103	102	100	98	97	96	94	92	92	91	88
2	107	103	99	96	105	101	97	95	96	94	92	93	91	89	89	87	86	84
3	103	97	93	89	101	95	91	88	92	89	86	89	86	84	86	84	82	80
4	99	92	87	84	97	91	86	83	88	84	81	85	82	80	83	80	78	77
5	95	88	83	79	93	87	82	78	84	80	77	82	79	76	80	77	75	73
6	91	84	79	75	90	83	78	75	81	77	74	79	75	73	77	74	72	70
7	88	80	75	72	87	79	75	71	78	74	71	76	72	70	74	71	69	68
8	85	77	72	69	84	76	72	68	75	71	68	73	70	67	72	69	66	65
9	82	74	69	66	81	73	69	66	72	68	65	71	67	65	70	66	64	63
10	79	71	67	63	78	71	66	63	70	65	63	68	65	62	67	64	62	61

IES Indoor Report
Photometric Filename:LG-7015.IES

Unified Glare Rating Table

Lum. Name: LG-7015	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	5.0	5.6	4.6	5.3	5.6	6.6	7.2	6.2	6.9	7.2
Y=3H	6.4	7.0	6.1	6.7	7.1	7.5	8.1	7.3	7.9	8.2
Y=4H	7.5	8.1	7.4	7.9	8.3	8.4	9.0	8.2	8.8	9.2
Y=6H	9.2	9.7	9.1	9.6	10.0	9.8	10.3	9.6	10.1	10.6
Y=8H	10.2	10.7	10.1	10.6	11.0	10.7	11.2	10.6	11.1	11.5
Y=12H	11.5	11.9	11.4	11.9	12.3	11.8	12.3	11.7	12.2	12.6
X=4H Y=2H	4.9	5.4	4.7	5.2	5.6	6.4	7.0	6.2	6.8	7.1
Y=3H	6.5	7.0	6.4	6.9	7.3	7.5	8.0	7.5	7.9	8.4
Y=4H	7.8	8.3	7.9	8.3	8.8	8.6	9.0	8.6	9.0	9.5
Y=6H	9.8	10.2	9.9	10.3	10.8	10.3	10.7	10.4	10.7	11.3
Y=8H	11.0	11.4	11.2	11.5	12.1	11.4	11.7	11.5	11.9	12.4
Y=12H	12.5	12.8	12.7	13.0	13.6	12.8	13.1	13.0	13.3	13.8
X=8H Y=4H	10.2	10.5	10.3	10.7	11.2	10.9	11.3	11.0	11.4	11.9
Y=6H	11.9	12.2	12.1	12.4	13.0	12.3	12.6	12.6	12.9	13.5
Y=8H	13.0	13.3	13.3	13.6	14.2	13.4	13.6	13.7	13.9	14.5
Y=12H	14.5	14.7	14.8	15.1	15.7	14.7	15.0	15.1	15.3	15.9
X=12H Y=4H	10.5	10.8	10.7	11.0	11.6	11.1	11.5	11.3	11.6	12.2
Y=6H	12.4	12.6	12.7	12.9	13.5	12.8	13.0	13.1	13.3	13.9
Y=8H	13.7	13.9	14.0	14.2	14.9	14.0	14.2	14.3	14.5	15.2
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/-0.8					0.5/-0.8				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	5.9					5.2				

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

IES Indoor Report
Photometric Filename:LG-7015.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	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26	4386.26
γ 5.0	4330.72	4410.46	4451.39	4606.43	4423.96	4186.20	3906.29	3757.02	3643.79	3983.59	4076.46	4183.25
γ 10.0	3887.49	4113.43	4214.96	4181.36	3802.02	3440.85	3044.20	2856.31	2664.83	3047.55	3248.51	3490.65
γ 15.0	2868.50	3258.34	3490.75	3301.13	2848.28	2443.66	1982.16	1701.84	1439.62	1742.13	1995.07	2314.60
γ 20.0	1628.55	2025.63	2368.25	2148.80	1759.09	1403.17	1017.10	802.61	666.05	823.59	970.98	1188.45
γ 25.0	820.20	1009.19	1200.30	1053.72	857.79	677.10	452.85	332.27	250.69	343.05	458.42	587.92
γ 30.0	363.02	493.60	588.79	511.76	379.42	260.52	155.58	117.65	97.11	116.98	144.90	208.21
γ 35.0	123.26	171.56	216.33	166.28	121.87	96.57	66.69	62.94	55.66	57.72	71.38	85.66
γ 40.0	56.48	75.92	86.88	70.37	64.18	53.46	40.59	40.65	36.58	37.07	44.00	50.95
γ 45.0	36.40	44.68	50.99	41.31	41.89	35.53	29.26	29.53	26.88	26.97	30.87	34.63
γ 50.0	26.78	31.09	34.13	29.25	30.29	26.76	22.78	23.16	21.39	21.14	23.80	26.03
γ 55.0	21.05	23.94	25.61	22.57	23.52	21.58	18.73	19.12	17.62	17.21	19.27	20.79
γ 60.0	17.39	19.46	20.58	18.23	19.21	17.99	15.73	16.09	14.88	14.50	16.08	17.29
γ 65.0	14.75	16.29	17.06	15.37	16.21	15.20	13.29	13.72	12.99	13.07	13.71	14.70
γ 70.0	13.04	13.93	14.62	13.07	13.90	13.22	13.07	13.16	12.97	13.10	13.08	13.15
γ 75.0	13.00	12.96	13.30	13.07	13.48	13.12	13.08	13.14	12.94	13.09	13.09	13.21
γ 80.0	13.04	13.02	13.29	13.14	13.48	13.14	13.11	13.17	12.94	13.11	13.12	13.28
γ 85.0	13.06	12.97	13.24	13.10	13.51	13.14	13.14	13.28	13.03	13.20	13.10	13.36
γ 90.0	13.05	13.03	13.32	13.14	13.60	13.23	13.12	13.24	13.02	13.12	13.13	13.20
γ 95.0	13.08	13.05	13.58	13.22	13.78	13.24	13.16	13.29	13.08	13.16	13.19	13.24
γ 100.0	13.13	13.08	13.53	13.29	13.81	13.31	13.14	13.51	13.15	13.23	13.19	13.57
γ 105.0	13.15	13.13	13.42	13.23	13.73	13.31	13.19	13.47	13.19	13.27	13.27	13.53
γ 110.0	13.17	13.12	13.52	13.30	13.70	13.35	13.30	13.59	13.31	13.32	13.32	13.48
γ 115.0	13.24	13.27	13.54	13.36	13.77	13.42	13.56	13.82	13.58	13.56	13.44	13.57
γ 120.0	13.45	13.30	13.55	13.54	13.97	13.75	13.99	14.33	14.21	13.90	13.75	13.80
γ 125.0	13.85	13.59	13.75	13.95	14.45	14.43	14.73	15.24	15.29	14.66	14.39	14.15
γ 130.0	14.53	14.14	14.22	14.81	15.31	15.54	16.10	16.67	16.95	15.83	15.43	15.02
γ 135.0	15.59	15.13	15.05	16.19	16.85	17.25	18.01	18.71	19.09	17.41	16.86	16.35
γ 140.0	17.13	16.63	16.33	18.18	18.86	19.54	20.40	21.17	21.78	19.47	18.83	18.06
γ 145.0	19.01	18.48	18.06	20.76	21.36	22.28	23.02	23.82	24.58	21.77	21.09	20.07
γ 150.0	21.17	20.61	20.11	23.70	24.27	25.09	25.72	26.47	27.21	24.04	23.52	22.22
γ 155.0	23.38	22.80	22.36	26.45	27.05	27.70	28.13	28.56	29.08	26.05	25.53	24.33
γ 160.0	25.48	24.78	24.52	28.88	29.26	29.73	29.87	29.80	29.97	27.64	27.13	26.10
γ 165.0	27.24	26.59	26.15	30.55	30.58	30.98	30.74	30.36	30.15	28.50	28.28	27.47
γ 170.0	28.49	27.86	27.33	31.35	31.12	31.45	31.04	30.40	29.92	29.11	29.15	28.56
γ 175.0	29.58	28.92	28.30	31.65	31.16	31.40	31.00	30.23	29.72	30.17	30.13	29.60
γ 180.0	30.67	30.67	30.67	30.67	30.67	30.67	30.67	30.67	30.67	30.67	30.67	30.67