

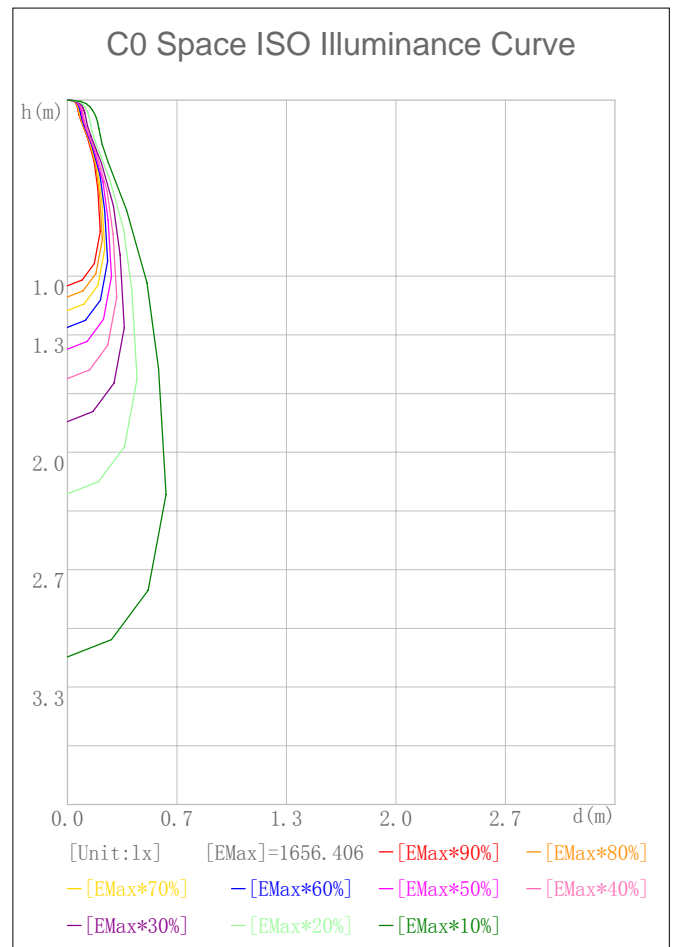
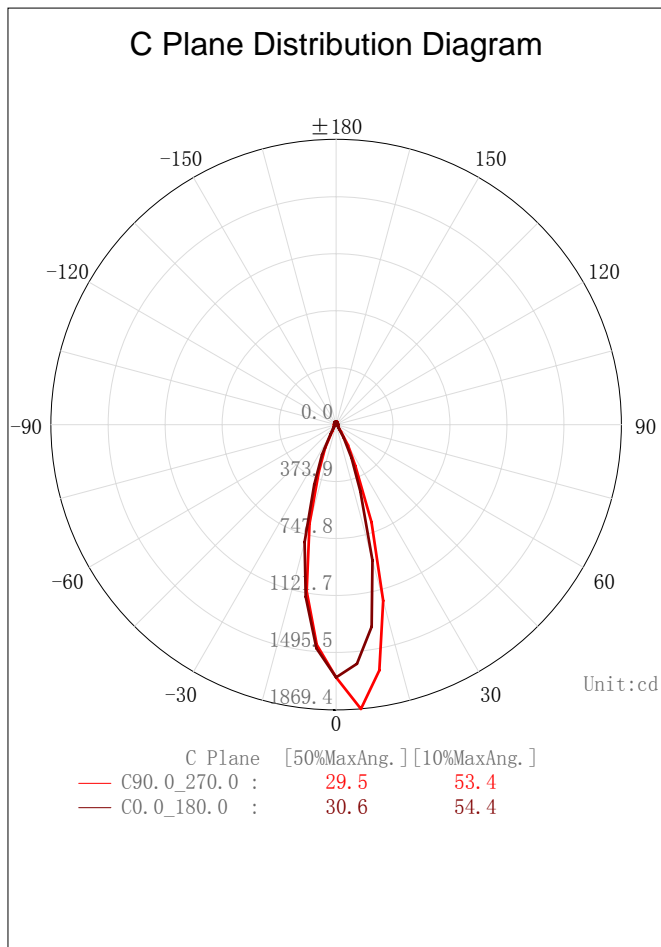
Indoor Luminaire Photometric Data

Description Information

Luminaire Name:LG-7005		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): 2700 Ra:
Lum. Size (W*L*H):0.045m*0.147m*0.049m		Lum. Area (m2):0.014	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

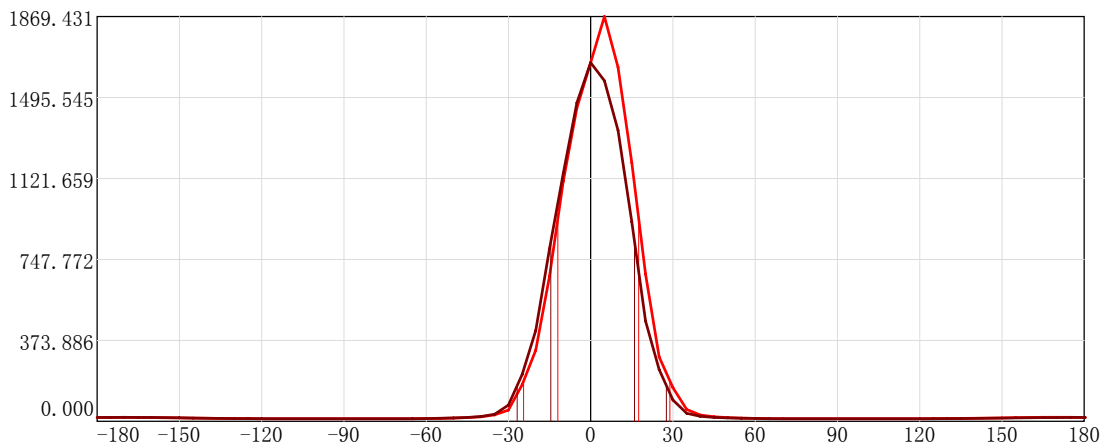
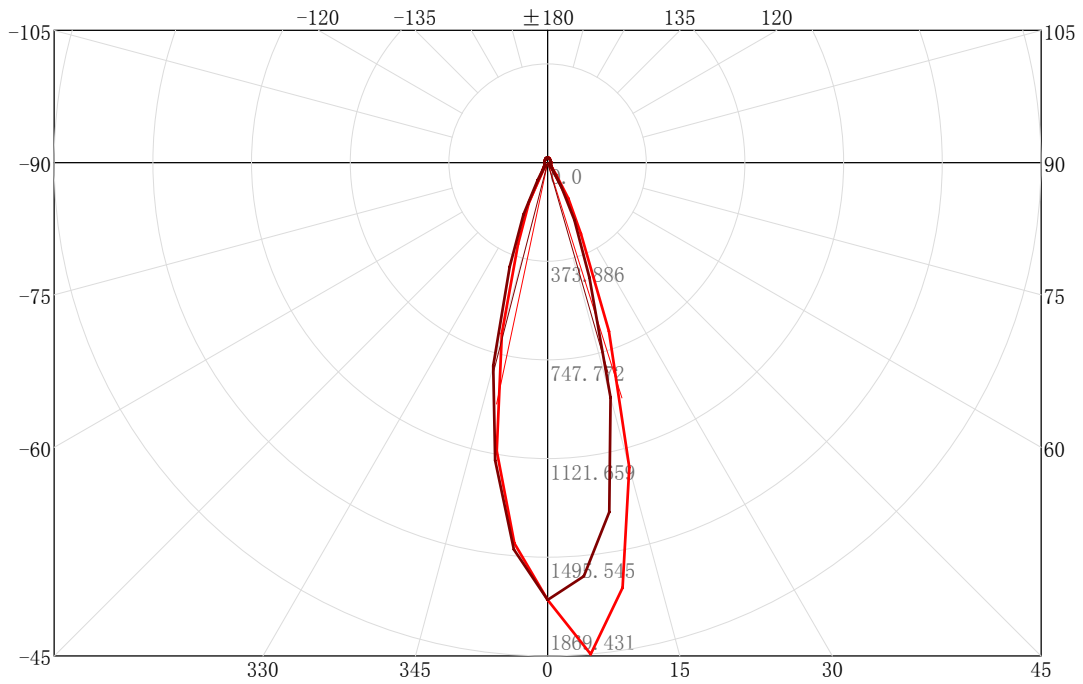
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 684.980	Luminaire Flux(lm): 684.985	Field Angle(10%Imax): 53.4(°)	
Rated Power(W): 10	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 598.031lm 87.31%	
Rated Voltage(V): 120	Luminaire EER(lm/W): 49.350	Up Lumens&Percent: 86.954lm 12.69%	
Tested Power(W): 13.880	Max. Candela(cd): 1869.431	S/MH: C0_a180=0.509 C90_270=0.536	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: General Diffuse	
Tested Electrics (V, A, pf):120.8, 0.127, 0.980	Beam Angle (50%Imax): 29.5(°)	ErP φ use(90°): 539.397lm	
Lamp Size (W*L*H):0.045m*0.147m*0.049m	Left=-12.0°, Right=17.5°	IRF(%): 670.130	



2D Plane Light Intensity Distribution Curve

Lum. Name: LG-7005	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



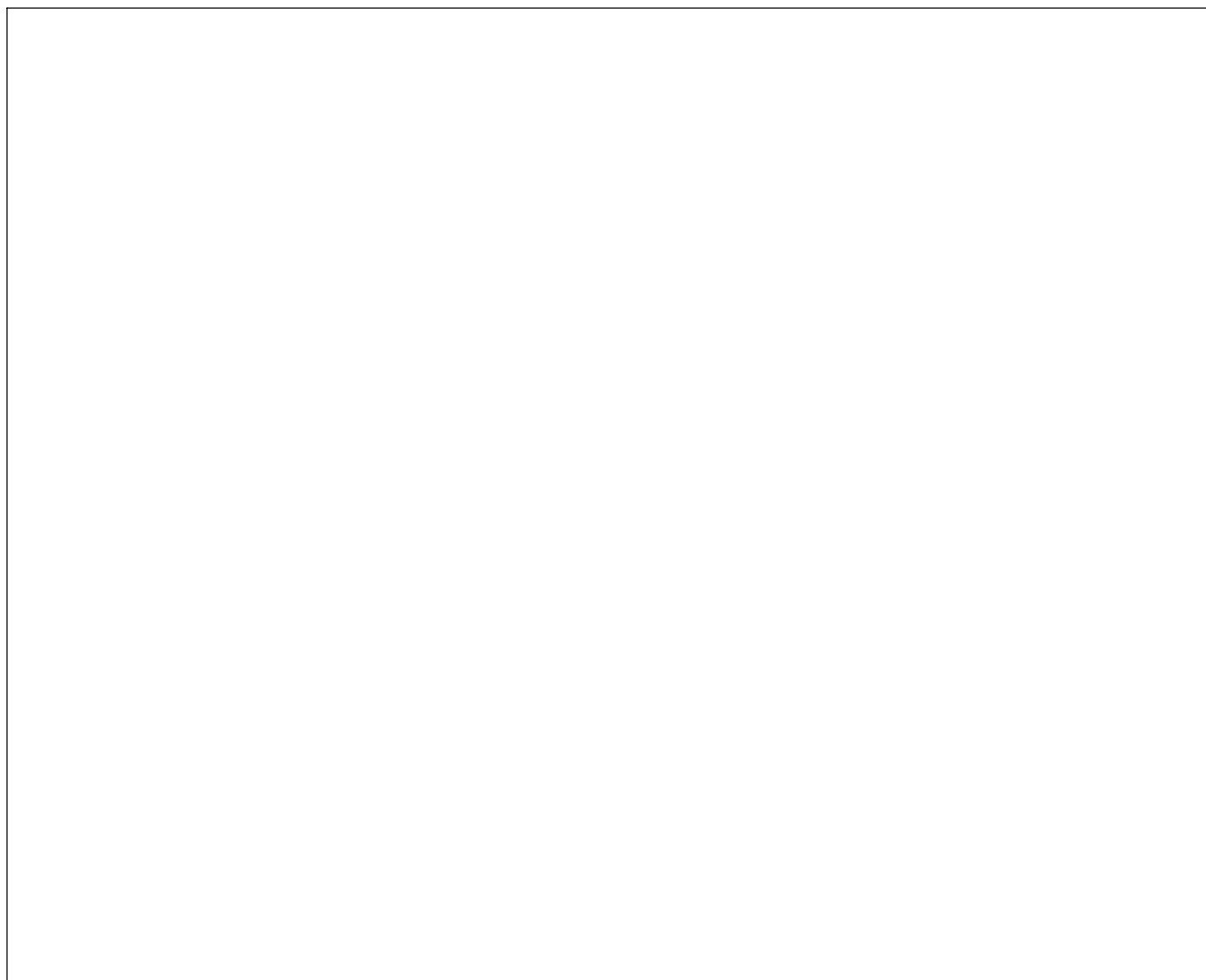
C Plane [50%MaxAng.] [10%MaxAng.]
 — C90.0_270.0 : 29.5 53.4
 — C0.0_180.0 : 30.6 54.4

Unit:cd

3D Light Intensity Distribution Modal

Lum. Name: LG-7005	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

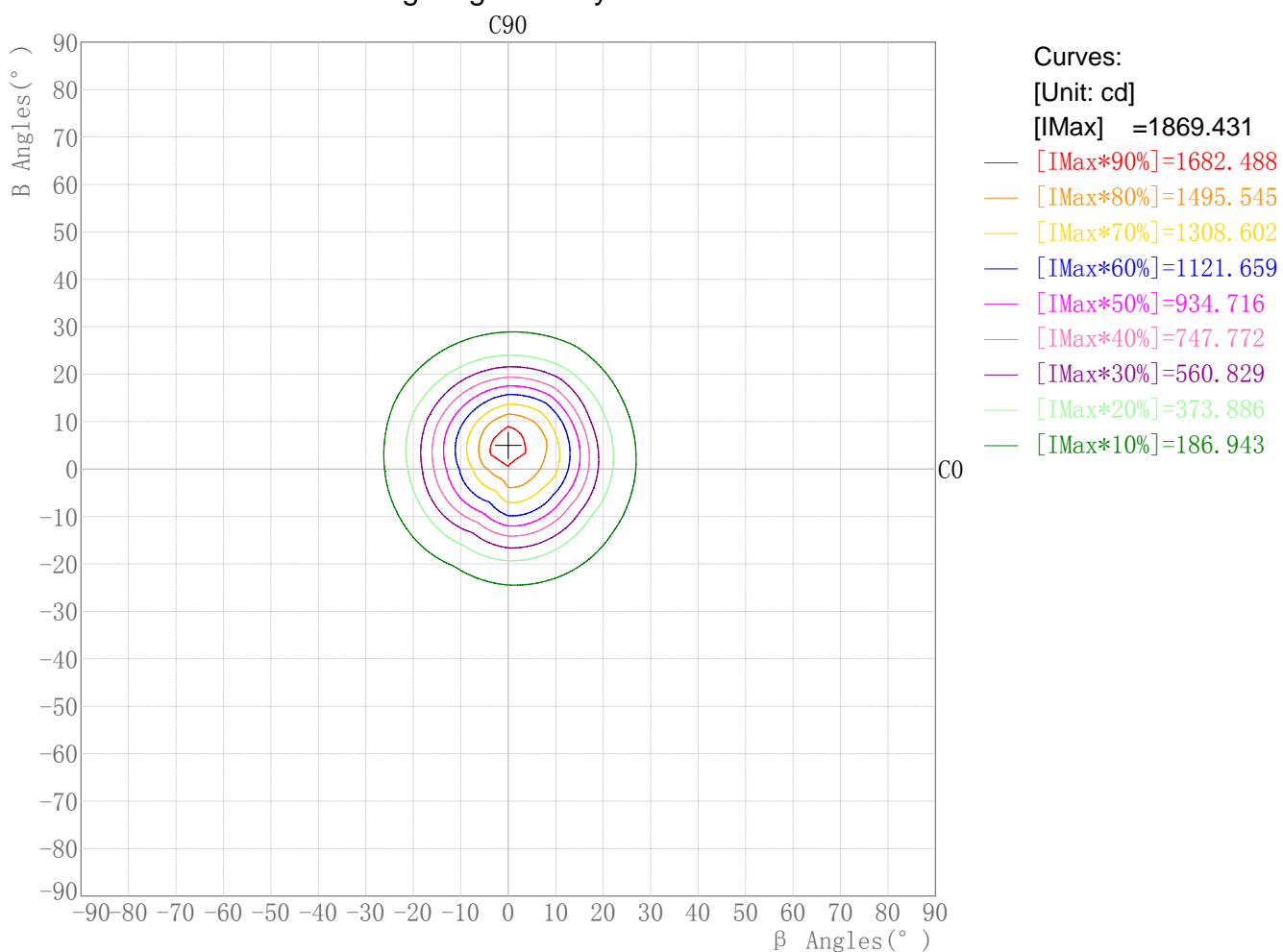
Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	38.56	38.56	5.63	5.63
5.0-10.0	102.33	140.89	14.94	20.57
10.0-15.0	129.16	270.05	18.86	39.42
15.0-20.0	112.06	382.11	16.36	55.78
20.0-25.0	73.77	455.87	10.77	66.55
25.0-30.0	41.31	497.18	6.03	72.58
30.0-35.0	20.26	517.44	2.96	75.54
35.0-40.0	10.96	528.40	1.60	77.14
40.0-45.0	8.35	536.75	1.22	78.36
45.0-50.0	7.36	544.11	1.07	79.43
50.0-55.0	6.91	551.02	1.01	80.44
55.0-60.0	6.70	557.72	0.98	81.42
60.0-65.0	6.58	564.29	0.96	82.38
65.0-70.0	6.53	570.82	0.95	83.33
70.0-75.0	6.62	577.44	0.97	84.30
75.0-80.0	6.77	584.21	0.99	85.29
80.0-85.0	6.88	591.09	1.00	86.29
85.0-90.0	6.94	598.03	1.01	87.31
90.0-95.0	6.96	604.99	1.02	88.32
95.0-100.0	6.92	611.91	1.01	89.33
100.0-105.0	6.82	618.73	1.00	90.33
105.0-110.0	6.66	625.39	0.97	91.30
110.0-115.0	6.46	631.85	0.94	92.24
115.0-120.0	6.22	638.08	0.91	93.15
120.0-125.0	5.97	644.04	0.87	94.02
125.0-130.0	5.72	649.76	0.84	94.86
130.0-135.0	5.49	655.26	0.80	95.66
135.0-140.0	5.26	660.52	0.77	96.43
140.0-145.0	5.00	665.51	0.73	97.16
145.0-150.0	4.67	670.18	0.68	97.84
150.0-155.0	4.23	674.42	0.62	98.46
155.0-160.0	3.66	678.08	0.53	98.99
160.0-165.0	2.97	681.05	0.43	99.43
165.0-170.0	2.17	683.22	0.32	99.74
170.0-175.0	1.32	684.54	0.19	99.94
175.0-180.0	0.44	684.98	0.06	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-7005	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

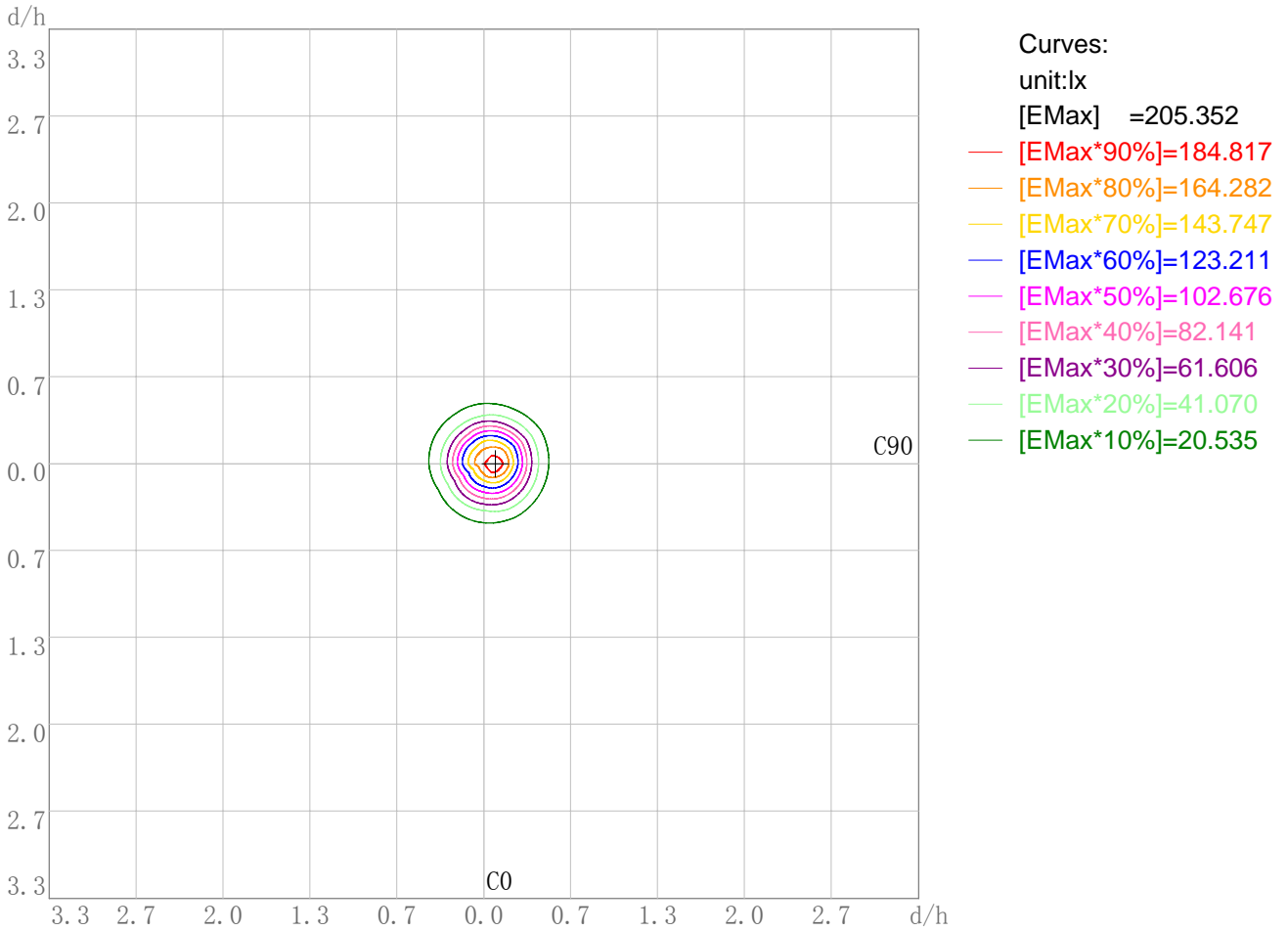


Maximum Light Intensity(cd): 1869.43
 Maximum Cand.@Angle: H=0.0°,V=5.0°

Plane ISO-Illuminance Diagram

Lum. Name: LG-7005	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

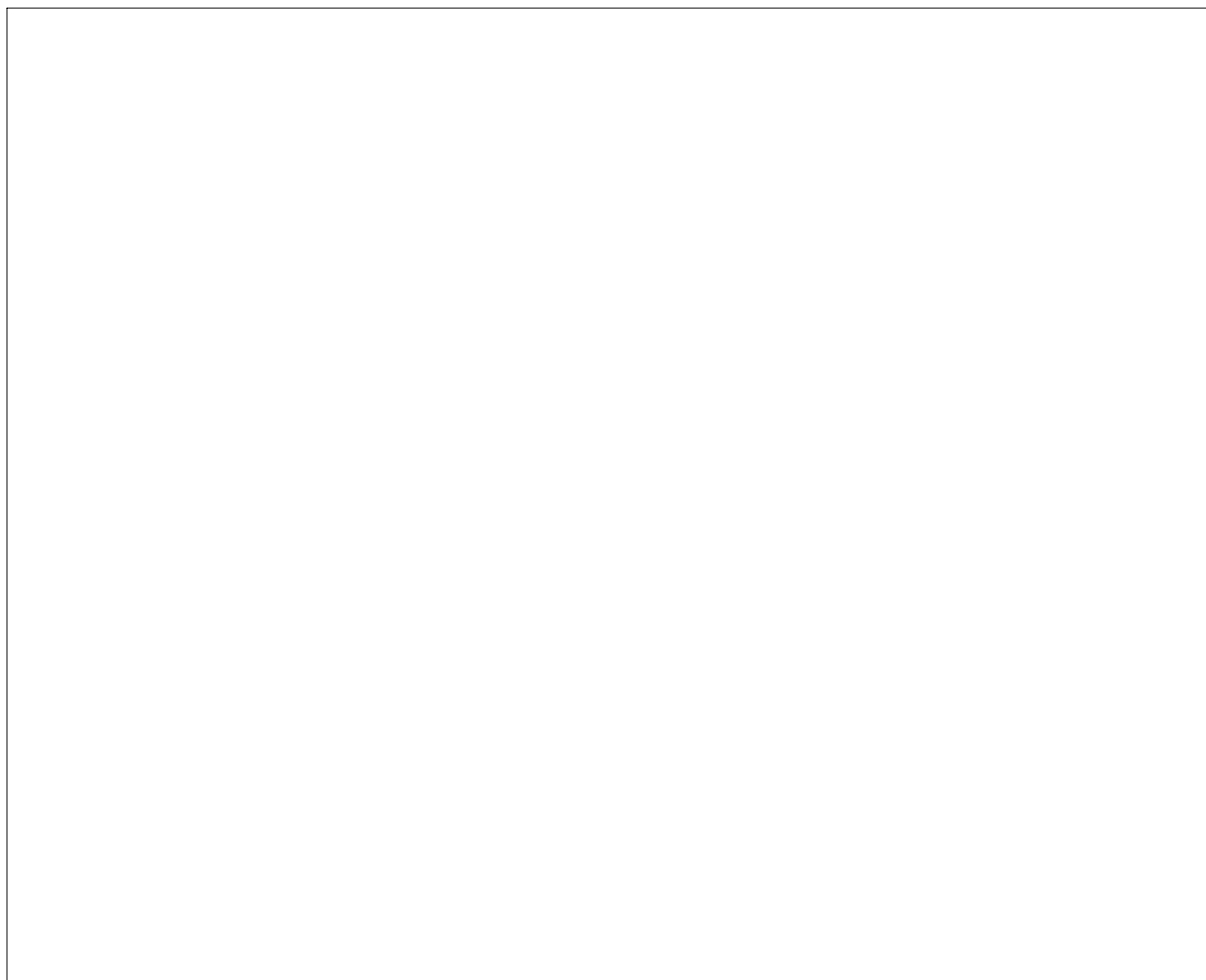


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 205.35
 Working Plane Maximum Illuminance Position(d/h):H0.1 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LG-7005	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

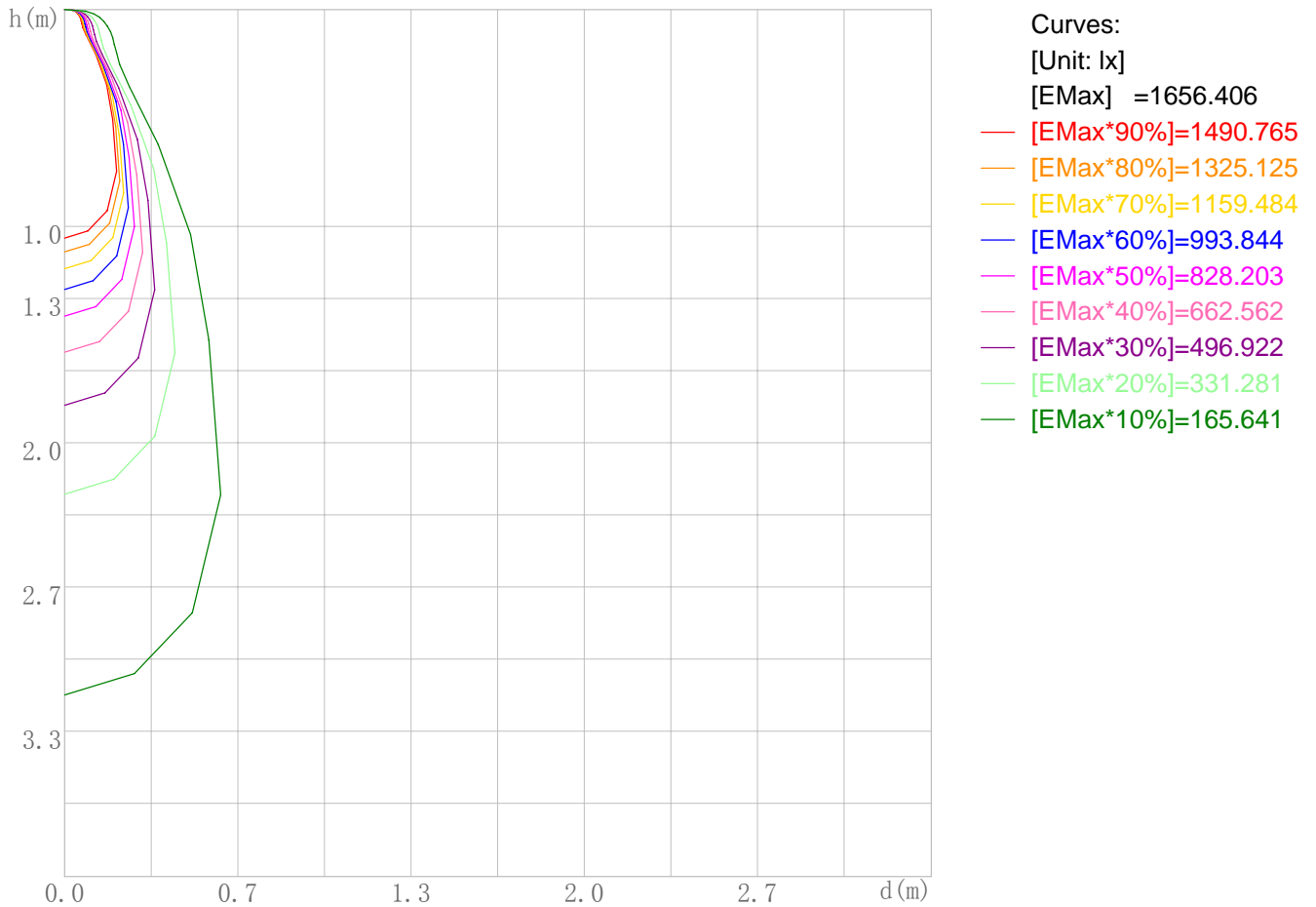


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LG-7005	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

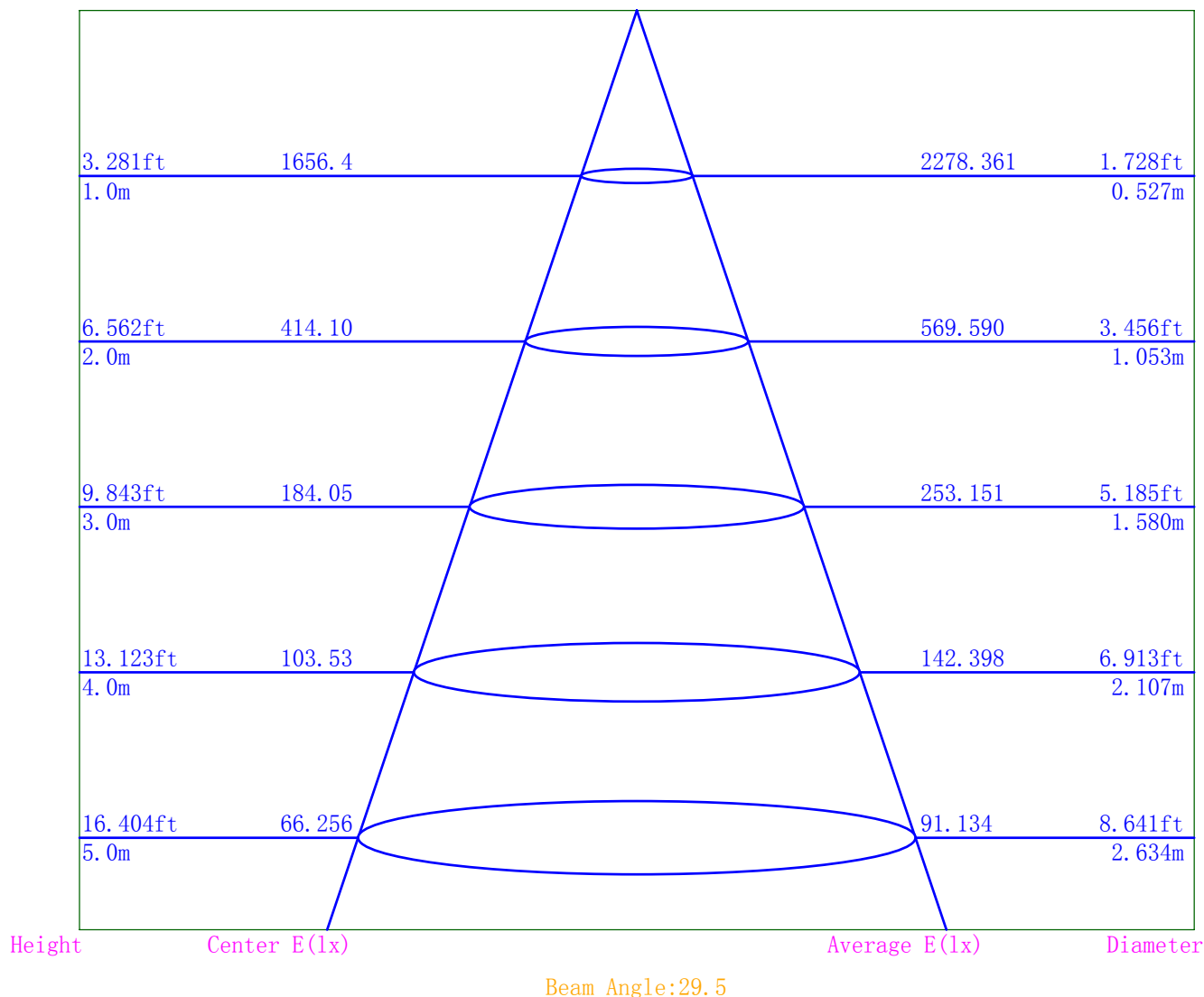


Space Plane Maximum Illuminance and @Angle:1656.41lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:1656.406cd,0deg

Illuminance-Distance Diagram

Lum. Name: LG-7005	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-7005	Lum. Catalog: Grille light	Test ID:
Lamp Name:	Lamp Catalog:LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2017/08/09

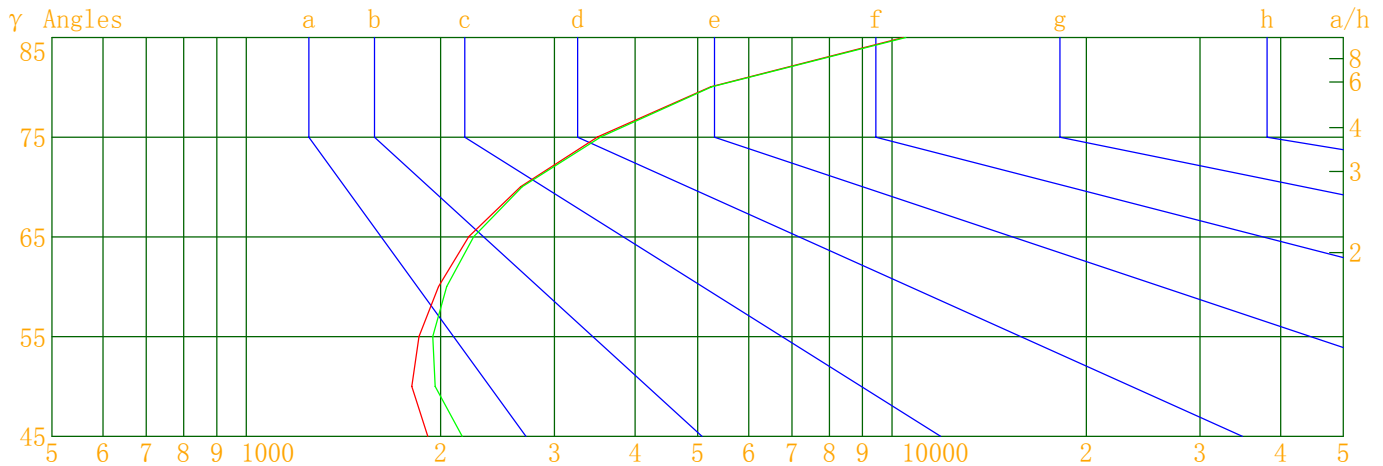
Glare Grade Table

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	1910	1805	1852	1985	2211	2660	3506	5238	10413
C90	2160	1961	1944	2044	2250	2675	3544	5259	10502

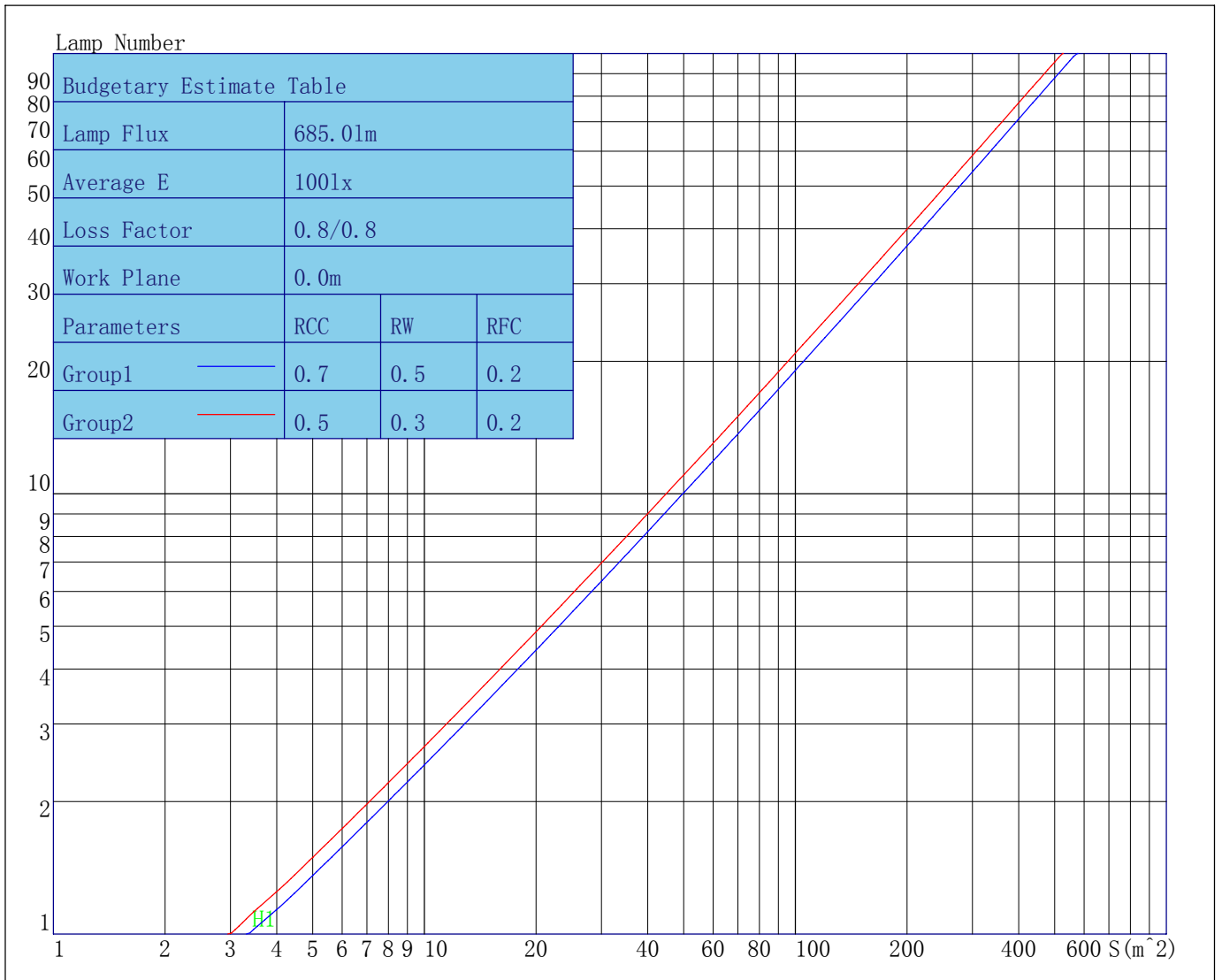
Luminance Limiting Curve



Luminous Size: Length(m)=0.147 Width(m)=0.045 Height(m)=0.049 Area(m²)=0.013818
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LG-7005	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-7005	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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	110	106	104	101	106	103	100	98	97	95	93	91	89	88	85	84	83	80
2	104	99	95	91	101	96	92	89	91	88	85	86	84	81	81	80	78	76
3	99	93	88	84	96	90	86	82	86	82	79	82	79	76	78	76	74	72
4	95	87	82	78	92	85	80	77	82	77	74	78	75	72	75	72	70	68
5	91	83	77	73	88	81	76	72	78	73	70	75	71	68	72	69	67	65
6	87	79	73	69	85	77	72	68	74	70	67	72	68	65	69	66	64	62
7	83	75	69	65	81	74	69	65	71	67	64	69	65	63	67	64	61	60
8	80	72	66	62	78	71	65	62	68	64	61	66	63	60	65	61	59	58
9	77	69	63	60	76	68	63	59	66	62	59	64	60	58	63	59	57	56
10	75	66	61	57	73	65	60	57	63	59	56	62	58	56	61	57	55	54

Unified Glare Rating Table

Lum. Name: LG-7005	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	11.3	11.9	11.0	11.7	12.1	12.1	12.8	11.8	12.5	12.9
Y=3H	14.0	14.6	13.8	14.5	14.9	14.4	15.1	14.3	14.9	15.4
Y=4H	15.8	16.4	15.7	16.3	16.8	16.1	16.7	16.0	16.5	17.1
Y=6H	17.9	18.5	17.8	18.4	18.9	18.1	18.6	18.0	18.5	19.1
Y=8H	19.1	19.6	19.1	19.6	20.1	19.2	19.8	19.2	19.7	20.3
Y=12H	20.5	21.0	20.5	21.0	21.6	20.6	21.1	20.6	21.1	21.7
X=4H Y=2H	11.4	12.0	11.3	11.9	12.4	12.2	12.7	12.0	12.6	13.1
Y=3H	14.4	14.9	14.4	14.9	15.4	14.7	15.2	14.7	15.2	15.8
Y=4H	16.3	16.8	16.4	16.8	17.4	16.5	17.0	16.6	17.1	17.7
Y=6H	18.7	19.1	18.8	19.2	19.9	18.8	19.2	18.9	19.4	20.0
Y=8H	20.0	20.4	20.2	20.6	21.3	20.1	20.5	20.3	20.7	21.4
Y=12H	21.6	21.9	21.9	22.2	22.9	21.7	22.0	21.9	22.3	23.0
X=8H Y=4H	18.2	18.6	18.4	18.8	19.5	18.4	18.8	18.6	19.0	19.7
Y=6H	20.5	20.8	20.8	21.1	21.8	20.6	20.9	20.9	21.2	21.9
Y=8H	21.8	22.1	22.2	22.5	23.2	21.9	22.2	22.3	22.6	23.3
Y=12H	23.4	23.7	23.8	24.1	24.8	23.5	23.8	23.9	24.2	24.9
X=12H Y=4H	18.7	19.0	18.9	19.3	20.0	18.8	19.2	19.1	19.5	20.1
Y=6H	21.1	21.4	21.5	21.7	22.5	21.2	21.5	21.6	21.8	22.6
Y=8H	22.6	22.8	23.0	23.2	24.0	22.6	22.9	23.1	23.3	24.1
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	7.3					6.9				

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

IES Indoor Report
Photometric Filename:LG-7005.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	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41	1656.41
γ 5.0	1572.81	1647.46	1728.96	1869.43	1785.09	1633.41	1471.08	1385.96	1322.89	1447.63	1466.56	1494.91
γ 10.0	1343.87	1474.26	1594.65	1635.05	1488.10	1317.13	1145.41	1065.70	984.31	1108.94	1143.16	1200.80
γ 15.0	921.44	1069.78	1221.04	1194.97	1068.93	944.98	797.17	696.60	579.61	669.85	704.23	757.45
γ 20.0	463.54	559.40	709.23	679.86	625.72	552.92	419.68	347.98	290.06	328.70	345.19	368.77
γ 25.0	239.75	267.98	316.56	297.96	278.70	262.01	216.57	174.14	134.84	169.51	188.26	202.49
γ 30.0	99.09	130.43	166.16	155.93	141.80	119.87	75.30	57.41	45.73	52.35	57.44	66.58
γ 35.0	37.88	47.90	60.44	55.68	48.85	42.94	33.21	32.03	28.50	30.14	31.85	33.59
γ 40.0	23.35	28.49	32.38	29.26	29.33	26.68	22.82	23.32	21.32	21.67	23.18	23.33
γ 45.0	18.66	20.72	23.05	21.11	21.98	20.35	18.56	18.99	17.59	17.85	18.71	18.59
γ 50.0	16.03	17.22	18.46	17.42	18.15	17.14	16.20	16.60	15.55	15.67	16.12	16.19
γ 55.0	14.68	15.35	16.06	15.41	15.97	15.35	14.65	15.07	14.21	14.31	14.66	14.77
γ 60.0	13.72	14.18	14.64	14.12	14.62	14.23	13.64	13.99	13.32	13.37	13.62	13.80
γ 65.0	12.91	13.25	13.65	13.14	13.66	13.38	12.85	13.26	12.58	12.73	12.89	13.05
γ 70.0	12.57	12.61	12.91	12.64	12.93	12.68	12.51	12.84	12.41	12.69	12.60	12.76
γ 75.0	12.54	12.56	12.70	12.68	12.85	12.57	12.56	12.73	12.43	12.69	12.55	12.84
γ 80.0	12.57	12.63	12.72	12.62	12.88	12.69	12.56	12.70	12.43	12.72	12.59	12.79
γ 85.0	12.54	12.58	12.76	12.65	12.90	12.64	12.56	12.78	12.46	12.73	12.56	12.81
γ 90.0	12.61	12.64	12.82	12.74	12.96	12.66	12.54	12.73	12.48	12.75	12.58	12.77
γ 95.0	12.63	12.59	13.02	12.69	13.09	12.68	12.61	12.74	12.47	12.78	12.65	12.78
γ 100.0	12.62	12.57	12.93	12.71	13.03	12.75	12.54	12.96	12.46	12.77	12.65	13.02
γ 105.0	12.66	12.58	12.91	12.69	12.98	12.68	12.54	12.92	12.44	12.76	12.68	12.94
γ 110.0	12.59	12.63	12.93	12.77	12.96	12.67	12.58	12.99	12.51	12.80	12.65	12.94
γ 115.0	12.60	12.61	12.90	12.76	12.97	12.62	12.66	12.99	12.60	12.81	12.77	12.89
γ 120.0	12.72	12.62	12.87	12.80	12.98	12.73	12.70	13.11	12.71	12.90	12.87	12.93
γ 125.0	12.85	12.73	12.88	12.96	13.08	12.94	12.97	13.33	12.99	13.11	13.00	13.00
γ 130.0	13.11	12.96	13.03	13.26	13.41	13.25	13.45	13.66	13.60	13.47	13.37	13.30
γ 135.0	13.56	13.34	13.41	13.75	13.85	13.85	14.05	14.33	14.33	14.11	13.94	13.73
γ 140.0	14.15	13.97	13.80	14.43	14.51	14.75	14.88	15.17	15.25	14.74	14.65	14.36
γ 145.0	14.86	14.74	14.39	15.39	15.37	15.66	15.83	16.16	16.34	15.53	15.48	15.11
γ 150.0	15.60	15.48	15.16	16.42	16.42	16.67	16.79	17.10	17.28	16.39	16.40	15.91
γ 155.0	16.38	16.19	15.90	17.46	17.39	17.62	17.74	17.94	18.06	17.13	17.15	16.74
γ 160.0	17.15	16.91	16.66	18.34	18.10	18.33	18.39	18.50	18.46	17.73	17.64	17.21
γ 165.0	17.71	17.51	17.20	18.93	18.58	18.79	18.81	18.69	18.56	18.11	18.05	17.69
γ 170.0	18.10	17.87	17.57	19.14	18.76	19.02	18.91	18.64	18.38	18.22	18.33	17.98
γ 175.0	18.36	18.16	17.86	19.17	18.77	18.96	18.80	18.57	18.26	18.54	18.58	18.24
γ 180.0	18.70	18.70	18.70	18.70	18.70	18.70	18.70	18.70	18.70	18.70	18.70	18.70