

IES Indoor Report

Photometric Filename:A0212LED-BLK-3K.IES

Indoor Luminaire Photometric Data

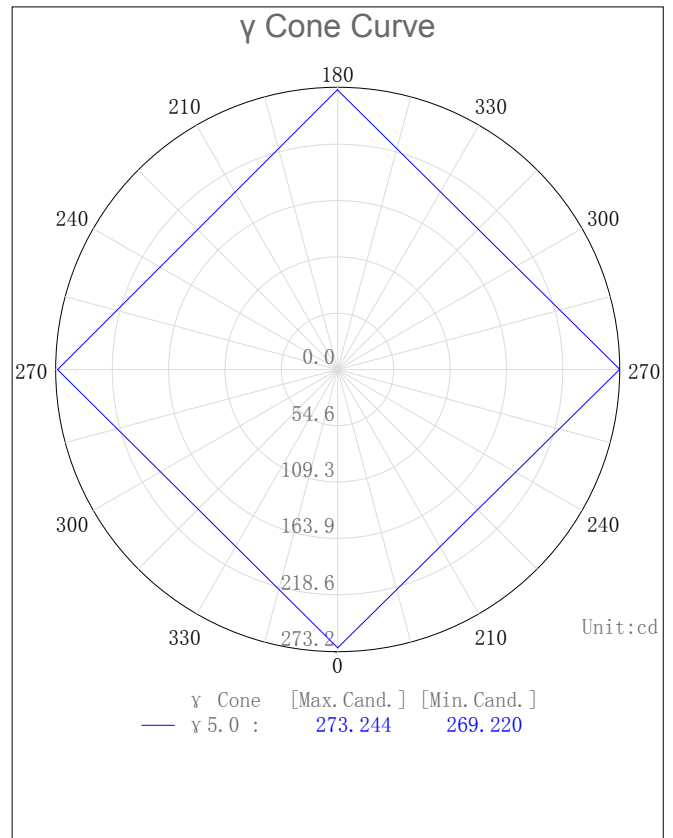
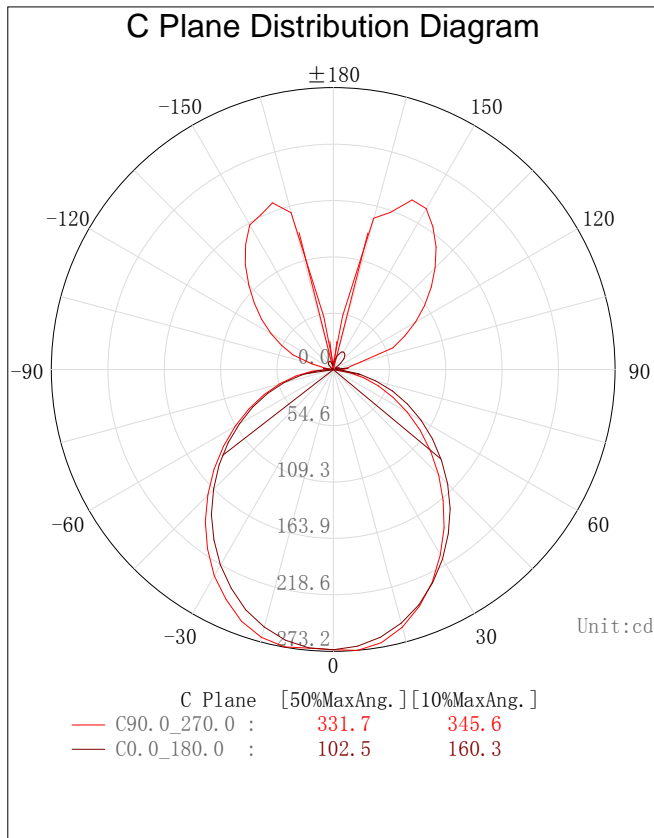
Description Information

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Date: 2020/10/22
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.200m*0.095m*0.040m	Lum. Area(m2):0.023	Lum. W(kg): 2.000
Test System: C, γ	Test Step: C=90.0 γ=5.0	Temp.(°C): 25
		Humidity(%):

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 976.040	Luminaire Flux: 976.040lm	Field Angle(10%Imax): 345.6	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 700.730lm 71.79%	
Rated Voltage(V):	Luminaire EER(lm/W): 55.870	Up Lumens&Percent: 275.310lm 28.21%	
Tested Power(W): 17.470	Max. Cand. (cd): 273.244	S/MH: C0_a180=1.186 C90_270=1.202	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=5.0	CIE Type: General Diffuse	
Tested Electric:U=239.5V, I=0.082A, PF=0.000	Beam Angle(50%Imax): 212.8	ErP Φuse(120°): 555.770lm	
Lamp Size(W*L*H):0.200m*0.095m*0.040m	Left=-166.0 Right=46.8	IRF: 119.564%	

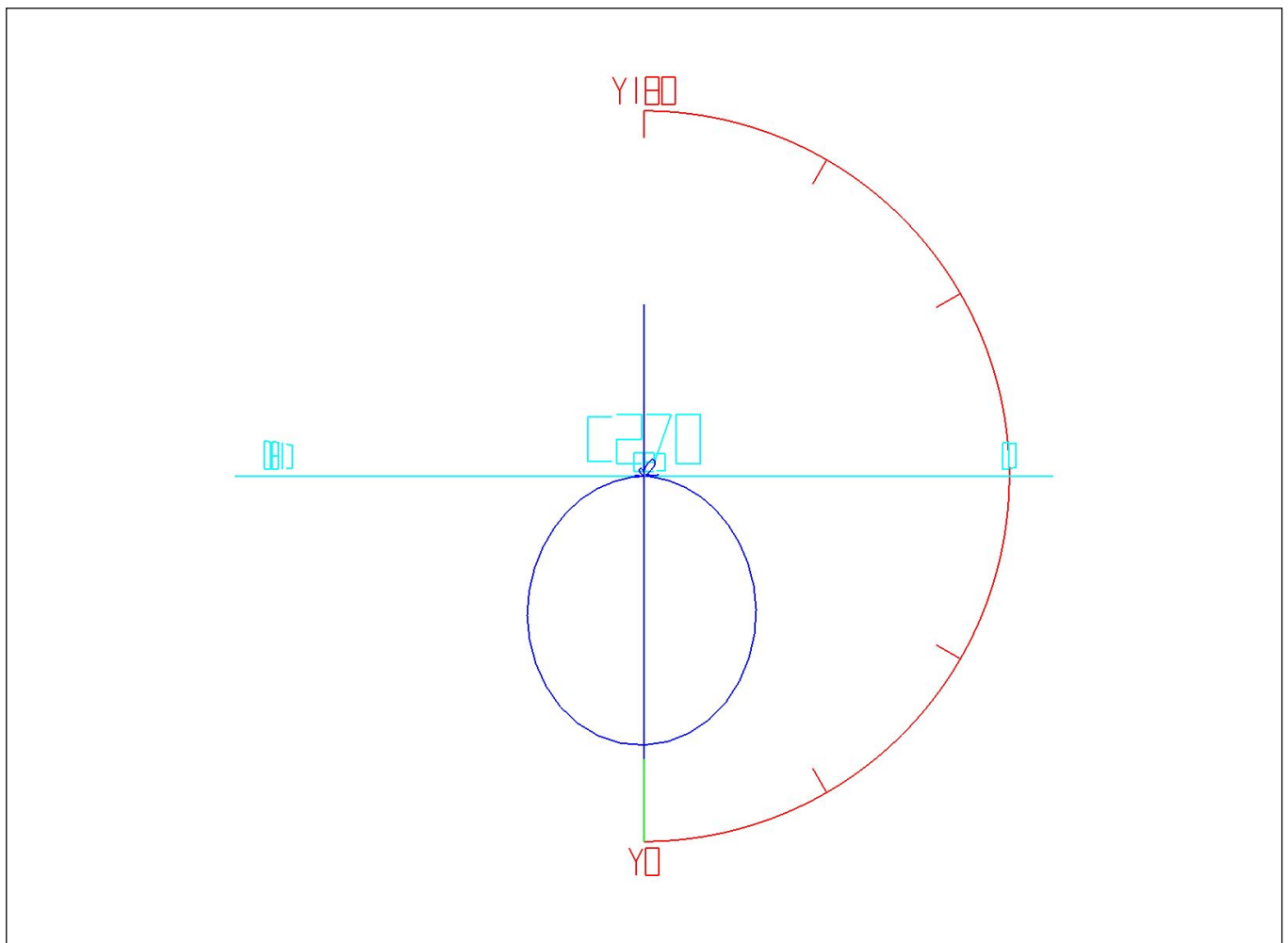
Lighting Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

3D Light Intensity Distribution Modal



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

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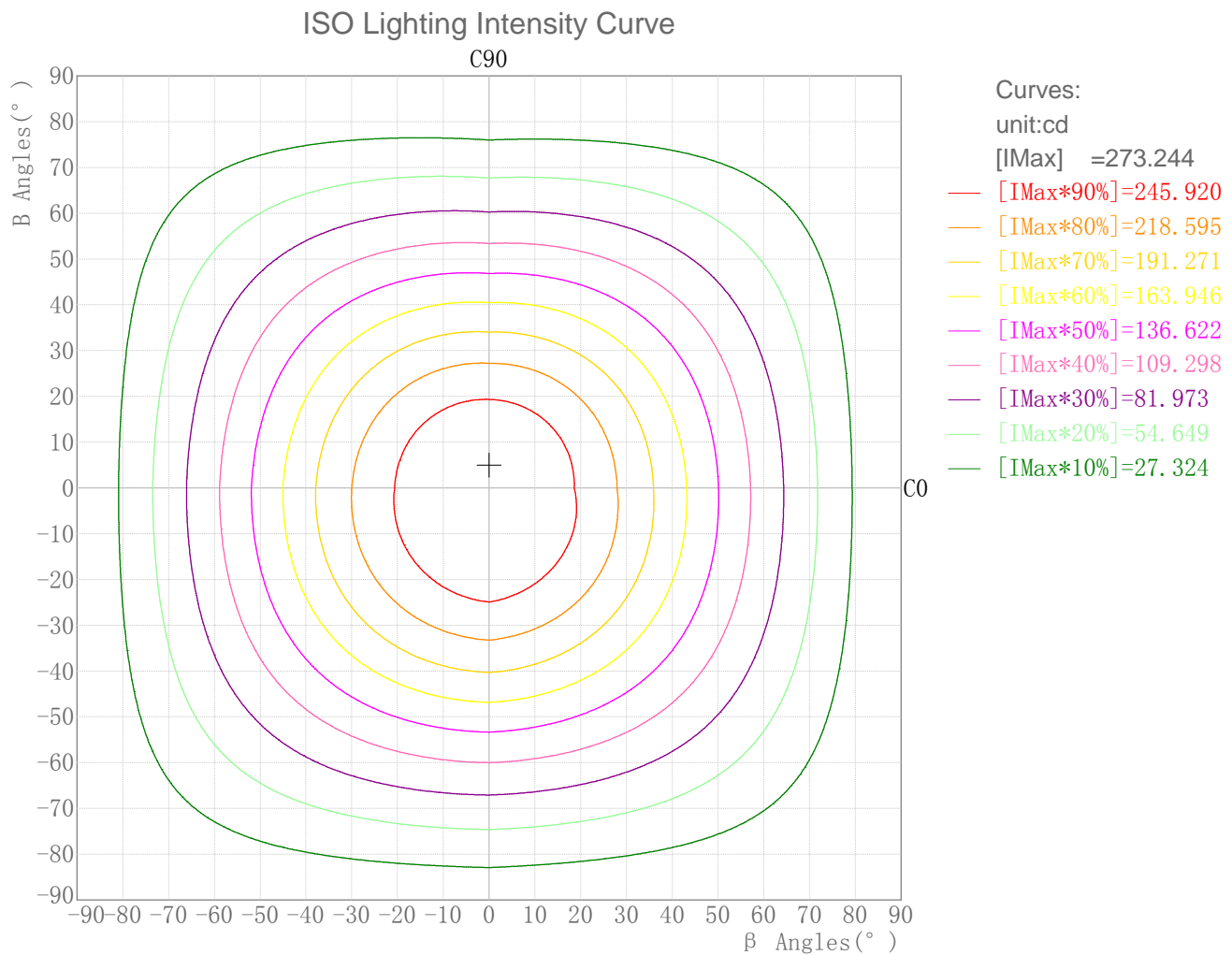
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Zonal Flux Tabulation

Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	6.48	6.48	0.66	0.66
5.0-10.0	19.27	25.76	1.97	2.64
10.0-15.0	31.31	57.07	3.21	5.85
15.0-20.0	41.90	98.97	4.29	10.14
20.0-25.0	50.58	149.55	5.18	15.32
25.0-30.0	57.08	206.63	5.85	21.17
30.0-35.0	61.27	267.90	6.28	27.45
35.0-40.0	63.13	331.03	6.47	33.92
40.0-45.0	62.72	393.76	6.43	40.34
45.0-50.0	60.21	453.97	6.17	46.51
50.0-55.0	55.95	509.92	5.73	52.24
55.0-60.0	50.24	560.16	5.15	57.39
60.0-65.0	43.43	603.59	4.45	61.84
65.0-70.0	35.82	639.41	3.67	65.51
70.0-75.0	27.54	666.95	2.82	68.33
75.0-80.0	18.85	685.80	1.93	70.26
80.0-85.0	10.38	696.18	1.06	71.33
85.0-90.0	4.55	700.73	0.47	71.79
90.0-95.0	4.24	704.97	0.43	72.23
95.0-100.0	4.66	709.63	0.48	72.71
100.0-105.0	5.55	715.18	0.57	73.27
105.0-110.0	10.75	725.93	1.10	74.38
110.0-115.0	15.52	741.45	1.59	75.97
115.0-120.0	18.31	759.76	1.88	77.84
120.0-125.0	20.98	780.74	2.15	79.99
125.0-130.0	23.64	804.38	2.42	82.41
130.0-135.0	25.88	830.26	2.65	85.06
135.0-140.0	27.20	857.46	2.79	87.85
140.0-145.0	27.35	884.81	2.80	90.65
145.0-150.0	26.26	911.07	2.69	93.34
150.0-155.0	23.54	934.61	2.41	95.75
155.0-160.0	19.19	953.80	1.97	97.72
160.0-165.0	14.14	967.94	1.45	99.17
165.0-170.0	6.65	974.59	0.68	99.85
170.0-175.0	1.32	975.91	0.13	99.99
175.0-180.0	0.13	976.04	0.01	100.00

Rectangle ISO Lighting Intensity Diagram

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

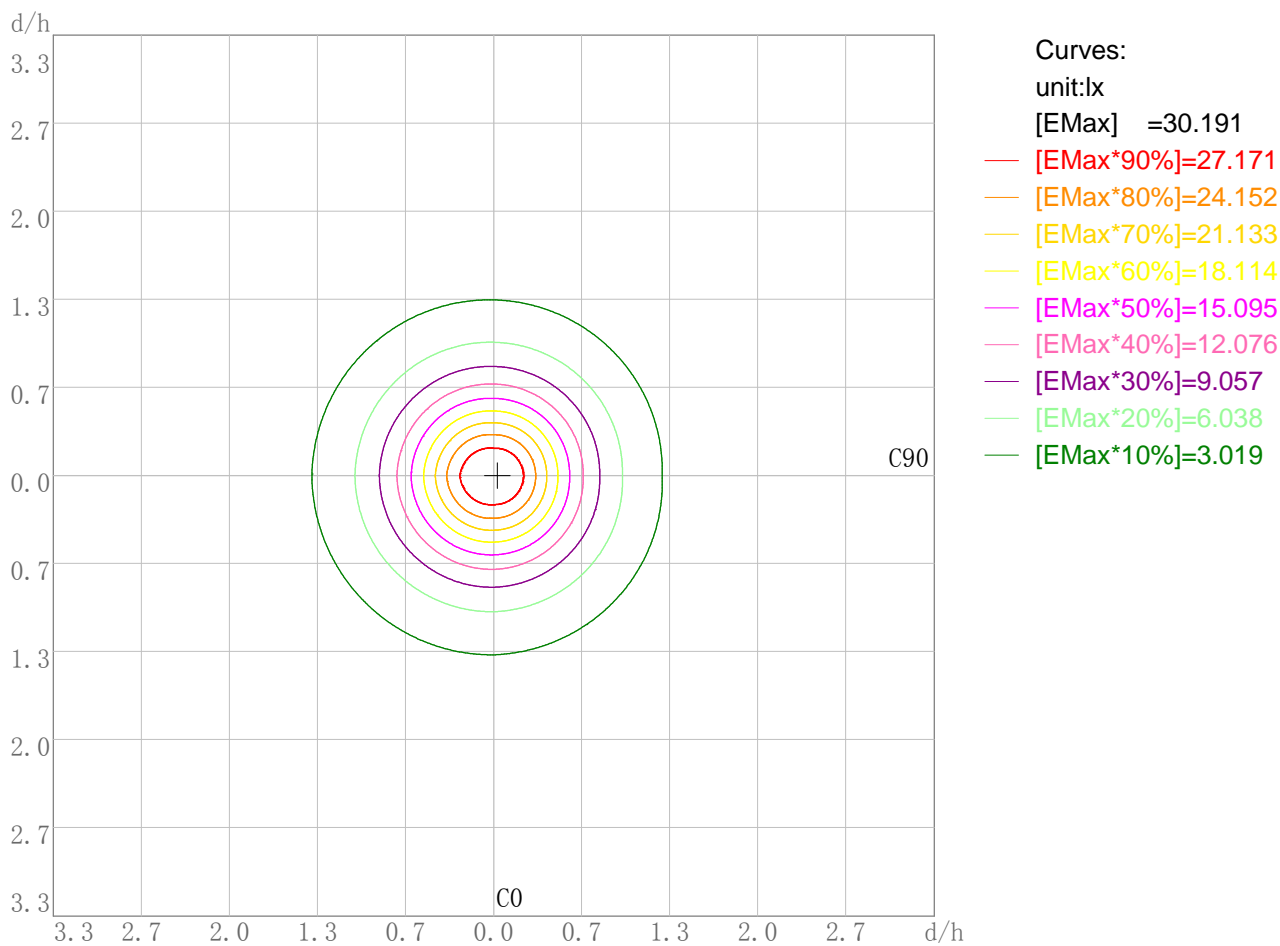


Maximum Light Intensity(cd): 273.24
Maximum Cand.@Angle: H=0.0°,V=5.0°

Plane ISO-Illuminance Diagram

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

Plane ISO-Illuminance Curve

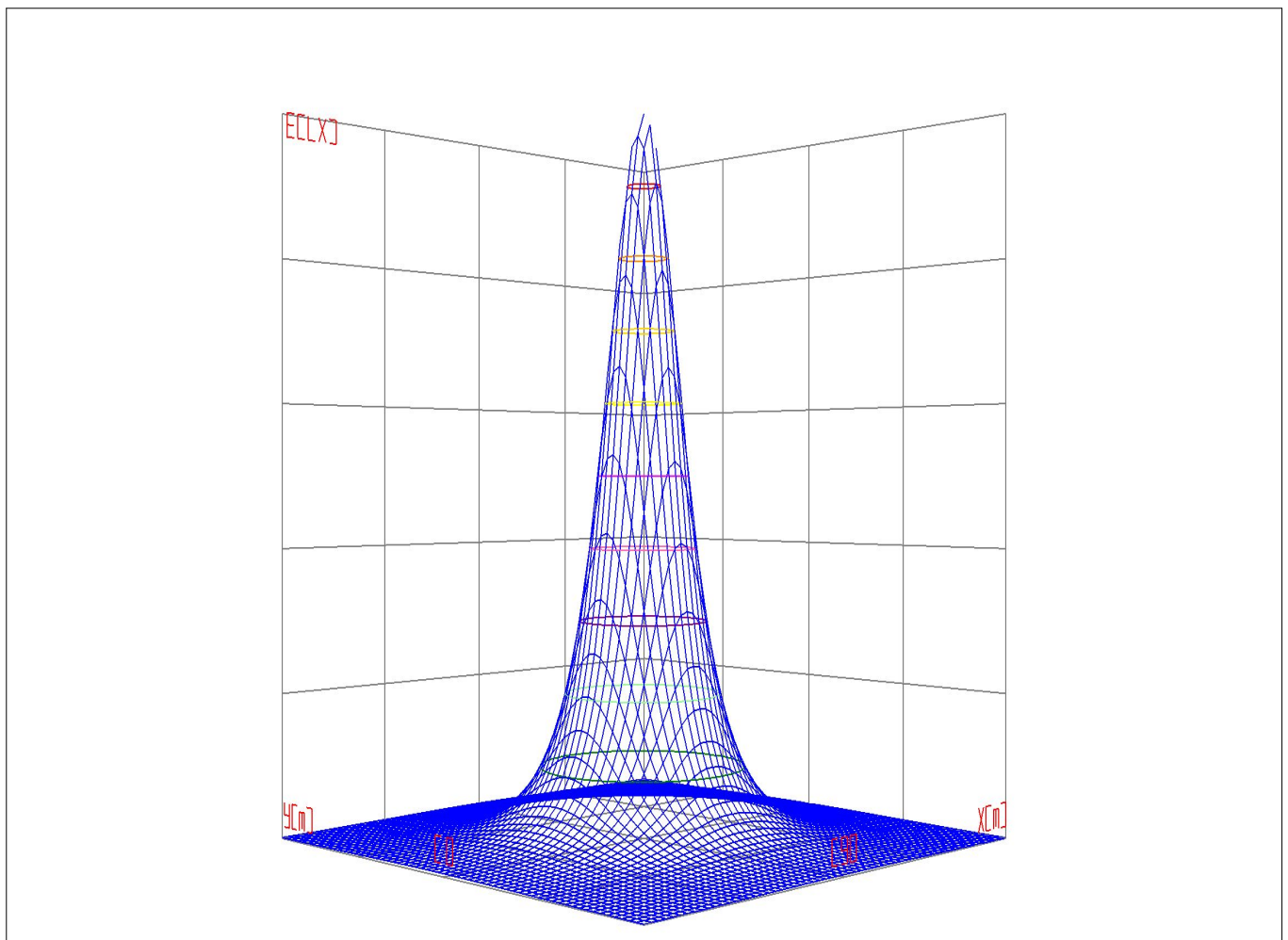


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 30.19
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

3D Plane Illuminance Modal

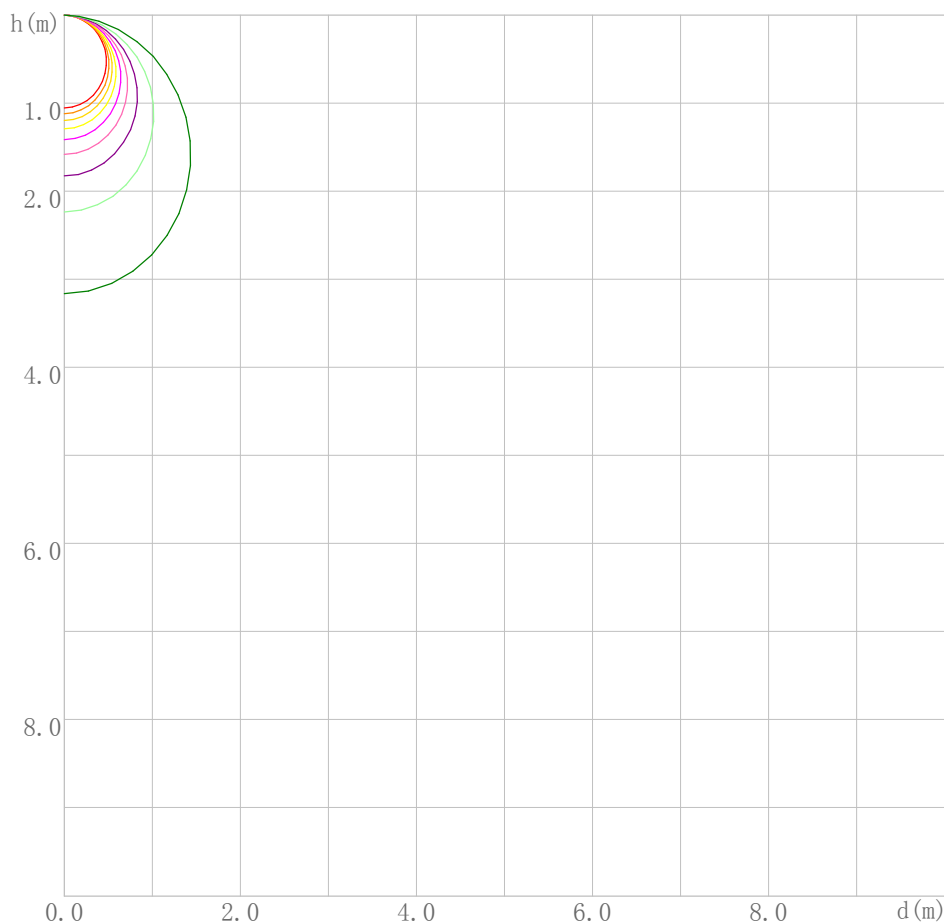


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

Space ISO Illuminance Curve

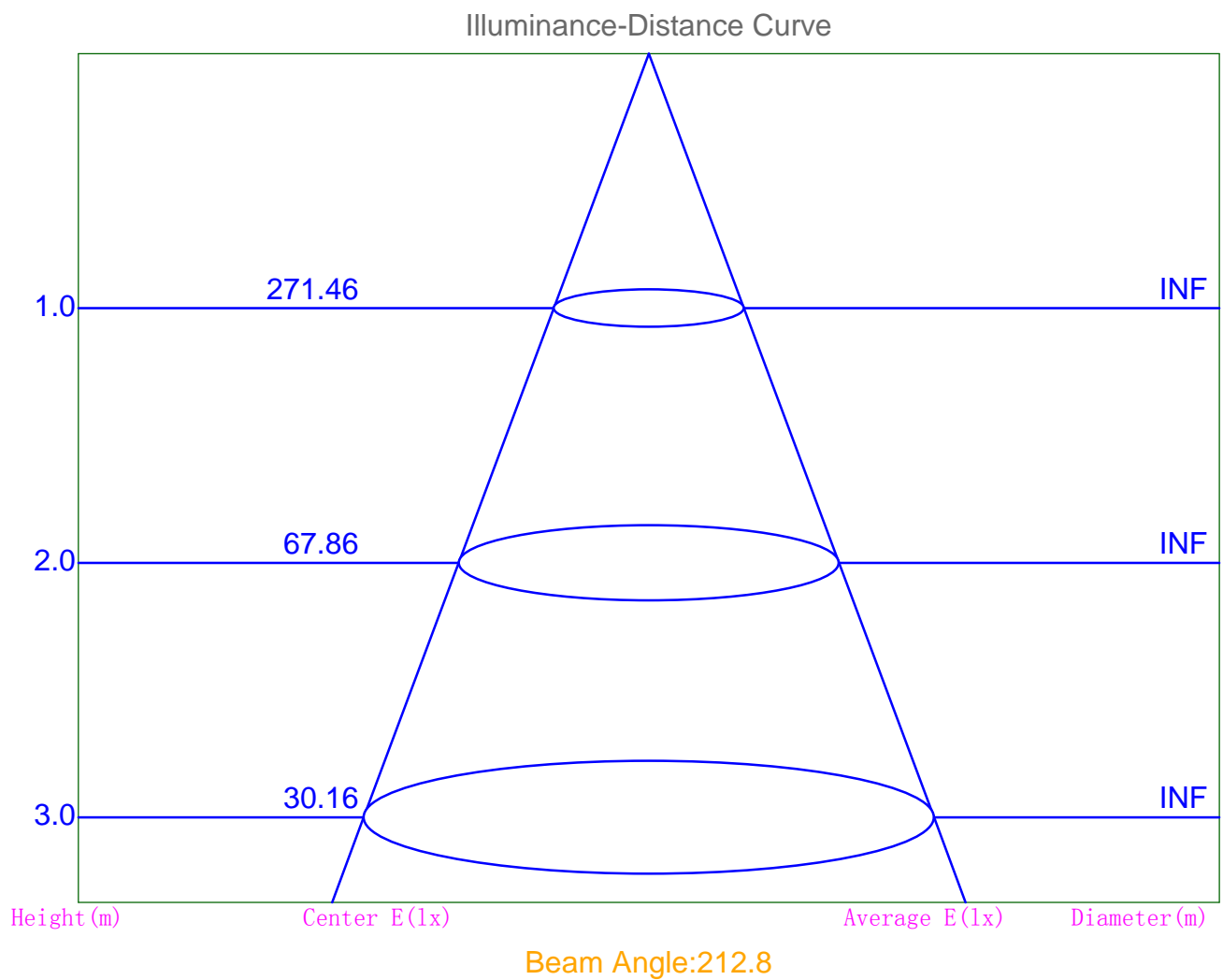


- Curves:
unit:lx
[EMax] =271.459
- [EMax*90%]=244.313
 - [EMax*80%]=217.167
 - [EMax*70%]=190.021
 - [EMax*60%]=162.875
 - [EMax*50%]=135.730
 - [EMax*40%]=108.584
 - [EMax*30%]=81.438
 - [EMax*20%]=54.292
 - [EMax*10%]=27.146

Space Plane Maximum Illuminance and @Angle:271.46,0.0deg
Plane Maximum Lighting Intensity and @Angle:271.459cd,0deg

Illuminance-Distance Diagram

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22



Indoor Luminance Limiting Curves

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

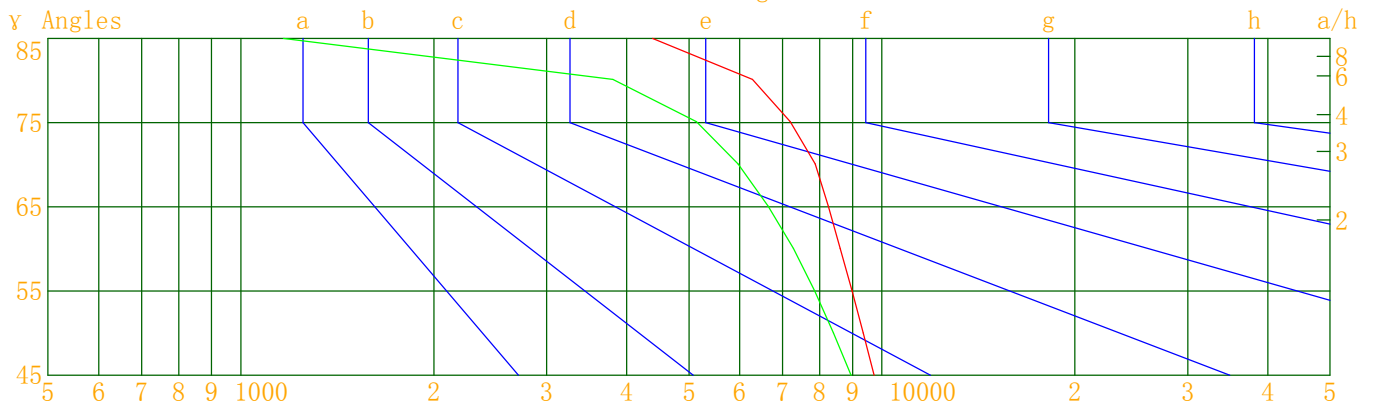
Glare Grade Table

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	9724	9356	8984	8611	8253	7866	7191	6285	4390
C90	8951	8404	7848	7278	6644	5968	5136	3804	1165

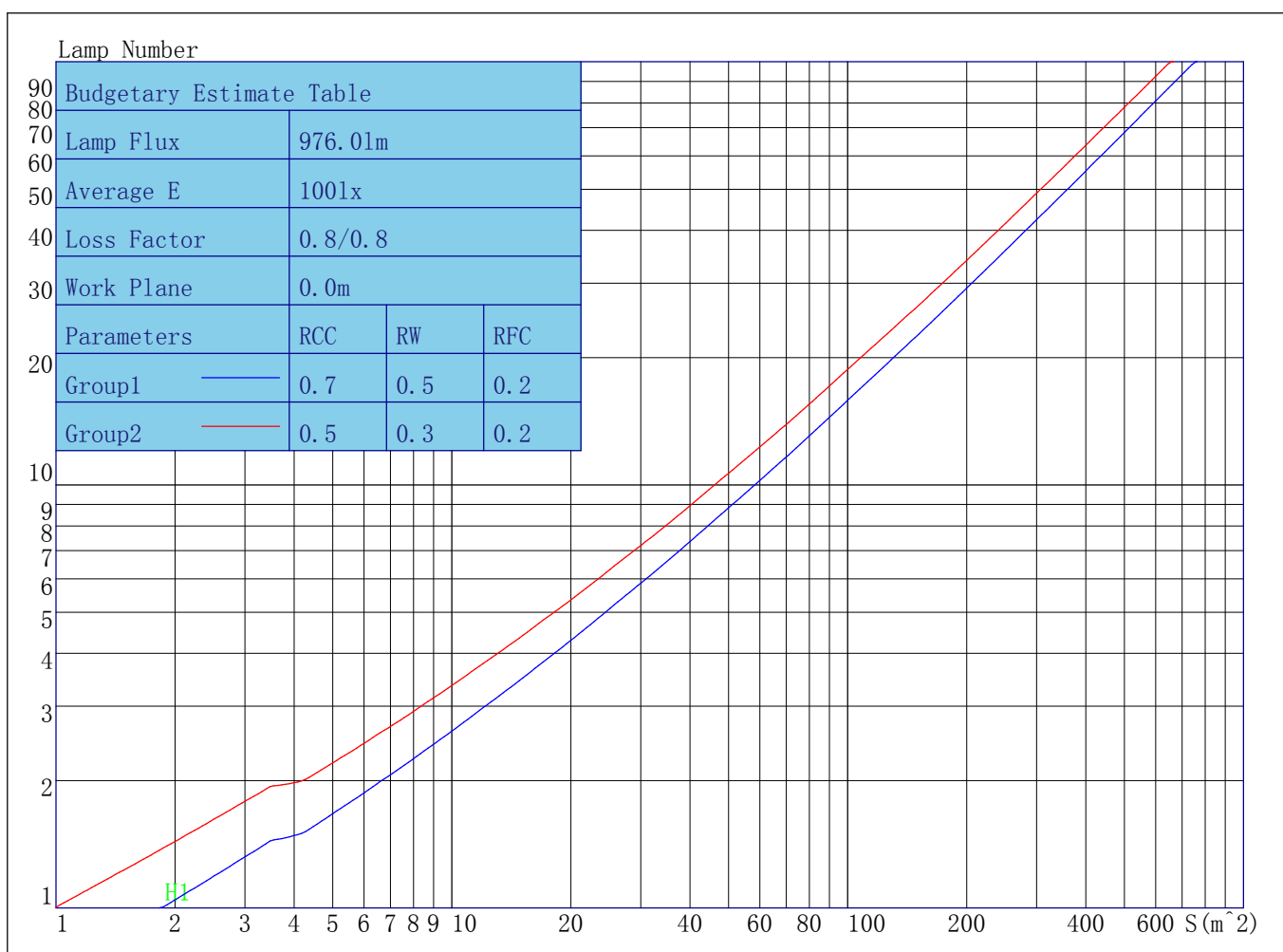
Luminance Limiting Curve



Luminous Size: Length(m)=0.095 Width(m)=0.200 Height(m)=0.040 Area(m²)=0.022800
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22



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: A0212LED-BLK	Lum. Catalog:	Test ID:
Lamp Name: 3000K	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	52	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	45	39	63	51	44	38	47	40	35	42	37	33	38	34	31	28
7	61	49	40	35	58	47	39	34	43	36	31	39	33	29	35	31	27	25
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	23	20	18

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Unified Glare Rating Table

Lum. Name: A0212LED-BLK	Lum. Catalog:	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/10/22

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	Vewed crosswise					Vewed endwise				
X=2H Y=2H	26.9	29.4	28.7	31.3	33.5	26.1	28.6	28.0	30.5	32.7
Y=3H	31.2	33.7	33.1	35.7	37.8	29.7	32.2	31.6	34.2	36.3
Y=4H	33.5	35.7	35.4	37.7	39.9	31.6	33.8	33.5	35.8	38.0
Y=6H	35.0	37.2	36.9	39.2	41.4	32.6	34.8	34.5	36.7	39.0
Y=8H	35.5	37.6	37.4	39.6	41.8	32.8	35.0	34.8	36.9	39.2
Y=12H	35.7	37.9	37.7	39.9	42.1	32.8	35.0	34.8	37.0	39.2
X=4H Y=2H	27.8	30.0	29.7	32.0	34.2	27.3	29.5	29.2	31.5	33.7
Y=3H	32.3	34.5	34.3	36.5	38.7	31.2	33.4	33.1	35.4	37.6
Y=4H	32.9	34.2	35.2	36.5	39.0	31.4	32.7	33.6	35.0	37.4
Y=6H	34.7	36.0	37.0	38.2	40.7	32.7	33.9	35.0	36.2	38.7
Y=8H	35.4	36.6	37.7	38.9	41.4	33.0	34.3	35.3	36.5	39.0
Y=12H	34.9	35.9	37.3	38.2	40.8	32.2	33.2	34.7	35.6	38.2
X=8H Y=4H	33.0	34.2	35.3	36.5	39.0	31.6	32.8	33.9	35.1	37.6
Y=6H	34.1	35.0	36.5	37.4	40.0	32.2	33.1	34.7	35.5	38.1
Y=8H	34.4	35.1	36.9	37.5	40.2	32.2	32.9	34.7	35.4	38.0
Y=12H	34.9	35.5	37.4	38.0	40.7	32.4	33.0	34.9	35.5	38.2
X=12H Y=4H	32.0	33.0	34.5	35.4	38.0	30.7	31.7	33.1	34.0	36.6
Y=6H	33.6	34.3	36.1	36.8	39.4	31.7	32.4	34.2	34.9	37.6
Y=8H	34.3	35.0	36.9	37.5	40.1	32.2	32.9	34.7	35.3	38.0
Variations with the objver position at spacings										
S=1.0H	2.6/-1.4					2.8/-0.6				
S=1.5H	-1.4/-19.9					-0.6/-18.4				
S=2.0H	-1.4/-19.9					-0.6/-18.4				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	271.46	271.46	271.46	271.46
Y 5.0	269.22	273.24	270.63	270.92
Y 10.0	263.38	268.65	266.16	272.99
Y 15.0	254.41	258.55	258.33	268.74
Y 20.0	242.64	243.94	247.64	259.49
Y 25.0	228.18	227.27	233.98	245.76
Y 30.0	212.04	207.68	218.54	230.70
Y 35.0	194.57	187.32	201.47	212.06
Y 40.0	176.19	165.93	183.52	192.57
Y 45.0	156.77	144.32	163.98	171.73
Y 50.0	137.12	123.17	144.19	150.65
Y 55.0	117.48	102.64	124.33	129.68
Y 60.0	98.17	82.97	104.85	109.37
Y 65.0	79.53	64.02	85.96	89.77
Y 70.0	61.34	46.54	67.59	71.08
Y 75.0	42.44	30.31	48.86	53.31
Y 80.0	24.88	15.06	30.33	36.60
Y 85.0	8.72	2.32	14.04	20.81
Y 90.0	3.48	10.17	0.29	6.67
Y 95.0	14.38	13.84	9.62	3.50
Y 100.0	1.63	16.91	0.25	8.47
Y 105.0	6.02	27.72	0.50	21.46
Y 110.0	4.53	61.63	1.25	41.44
Y 115.0	3.08	76.58	1.31	55.28
Y 120.0	2.04	92.06	1.14	69.77
Y 125.0	4.00	107.99	1.50	84.62
Y 130.0	9.49	124.11	3.21	99.93
Y 135.0	14.59	139.90	5.37	115.71
Y 140.0	17.83	154.98	6.85	132.42
Y 145.0	19.20	168.65	7.73	147.99
Y 150.0	19.52	180.08	8.47	161.77
Y 155.0	18.73	181.26	8.78	165.33
Y 160.0	15.80	161.89	8.29	171.79
Y 165.0	12.56	151.59	7.21	157.25
Y 170.0	9.50	52.68	5.75	52.12
Y 175.0	7.03	7.06	4.47	8.68
Y 180.0	4.28	4.28	4.28	4.28
