

IES Indoor Report

Photometric Filename: B36W-CC-4K-2019-10-17.IES

Indoor Luminaire Photometric Data

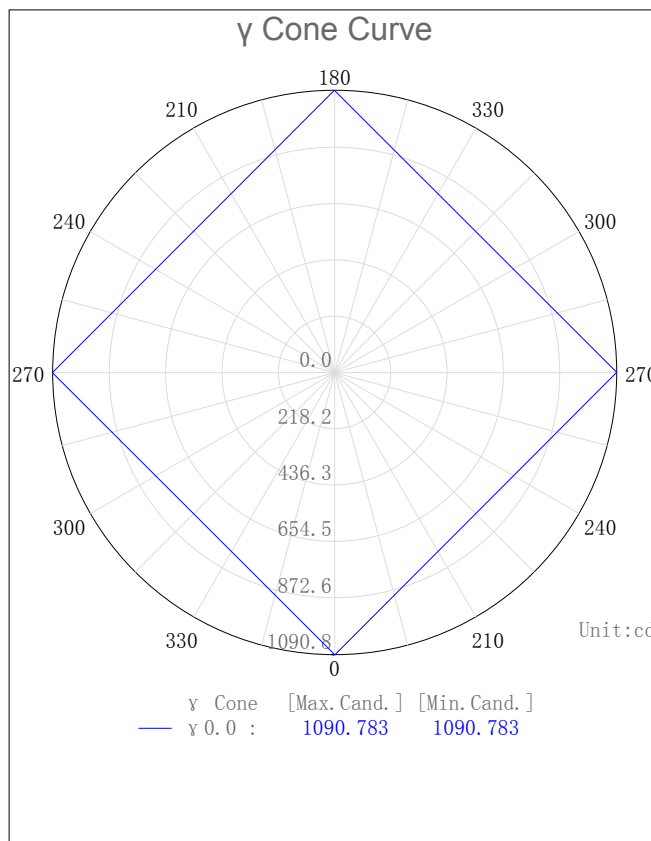
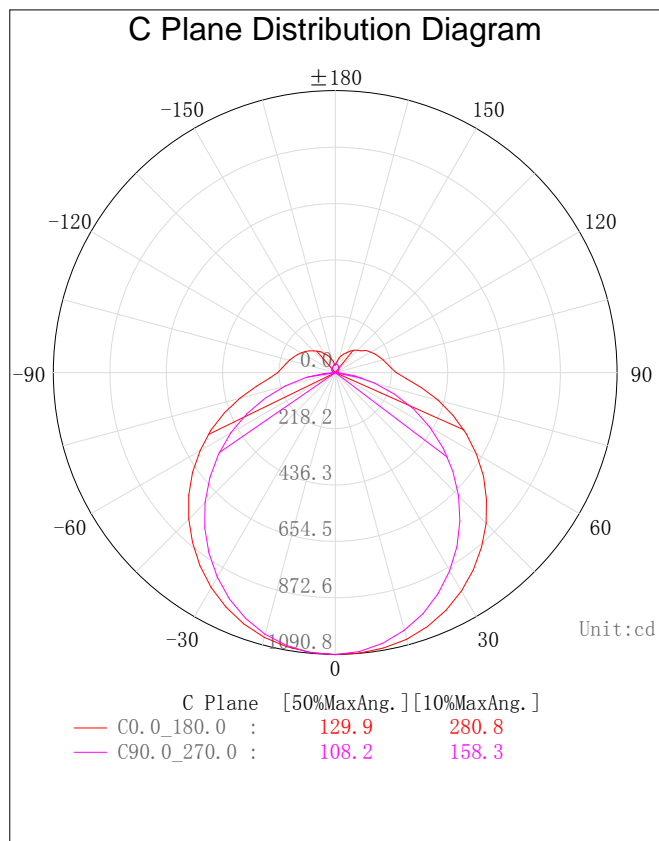
Description Information

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2019/10/17
Manufacture:	ShldAngle(°):	Test Machine: GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.060m*1.200m*0.065m	Lum. Area(m2): 0.150	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): 3960.590	Luminaire Flux: 3960.594lm	Field Angle(10%Imax): 280.8	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 3447.225lm 87.04%	
Rated Voltage(V):	Luminaire EER(lm/W): 115.503	Up Lumens&Percent: 513.369lm 12.96%	
Tested Power(W): 34.290	Max. Cand.(cd): 1090.783	S/MH: C0_a180=1.319 C90_270=1.228	
Lamps' Inside: 1	Max Cand@Ang.(°): C=0.0 γ=0.0	CIE Type: General Diffuse	
Tested Electric: U=240.0V, I=0.149A, PF=0.000	Beam Angle(50%Imax): 129.9	ErP Φuse(120°): 2514.119lm	
Lamp Size(W*L*H): 0.060m*1.200m*0.065m	Left=-64.0 Right=66.0	IRF: 105.177%	

Lighting Distribution Diagram



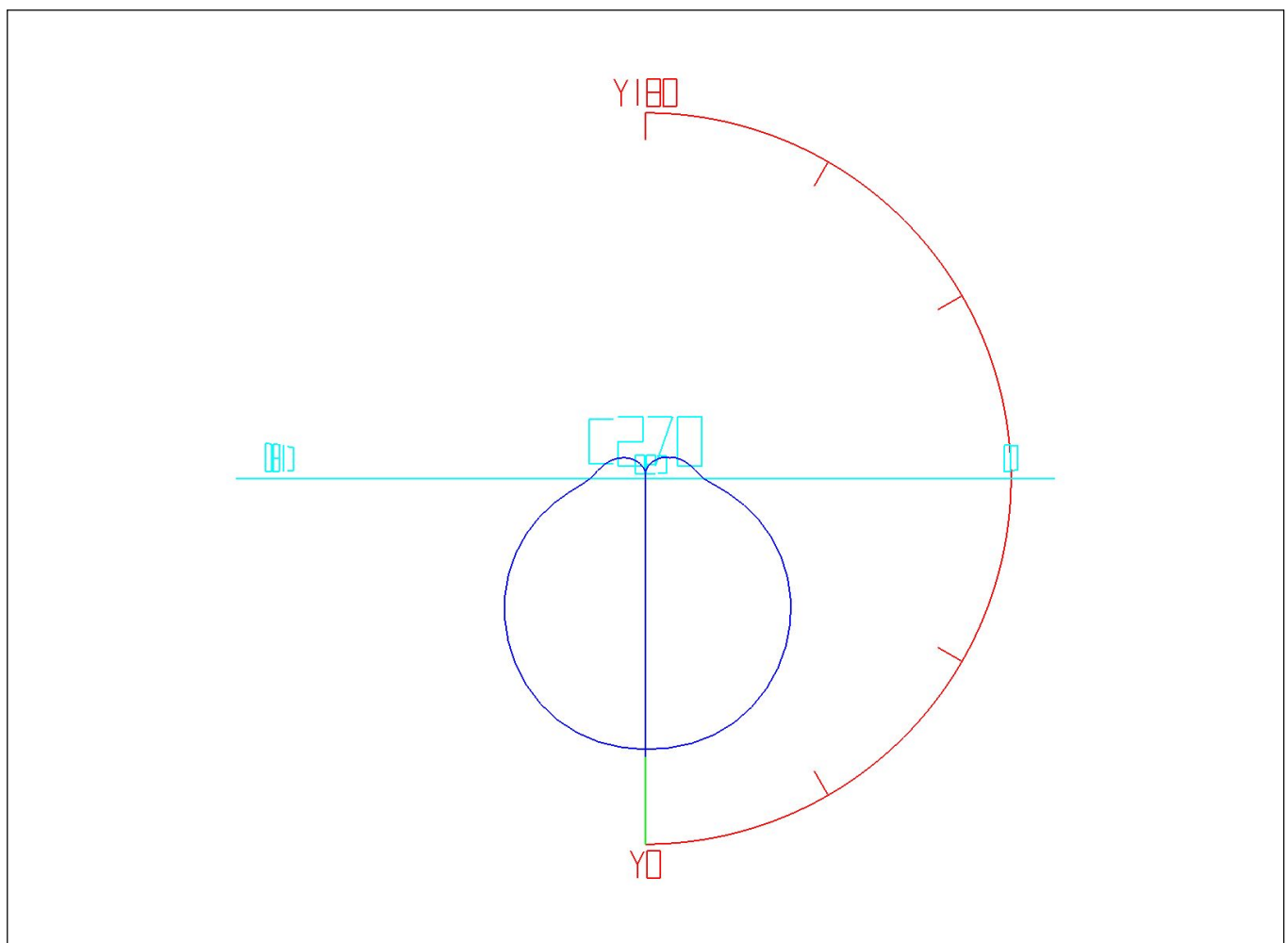
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3D Light Intensity Distribution Modal

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

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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Zonal Flux Tabulation

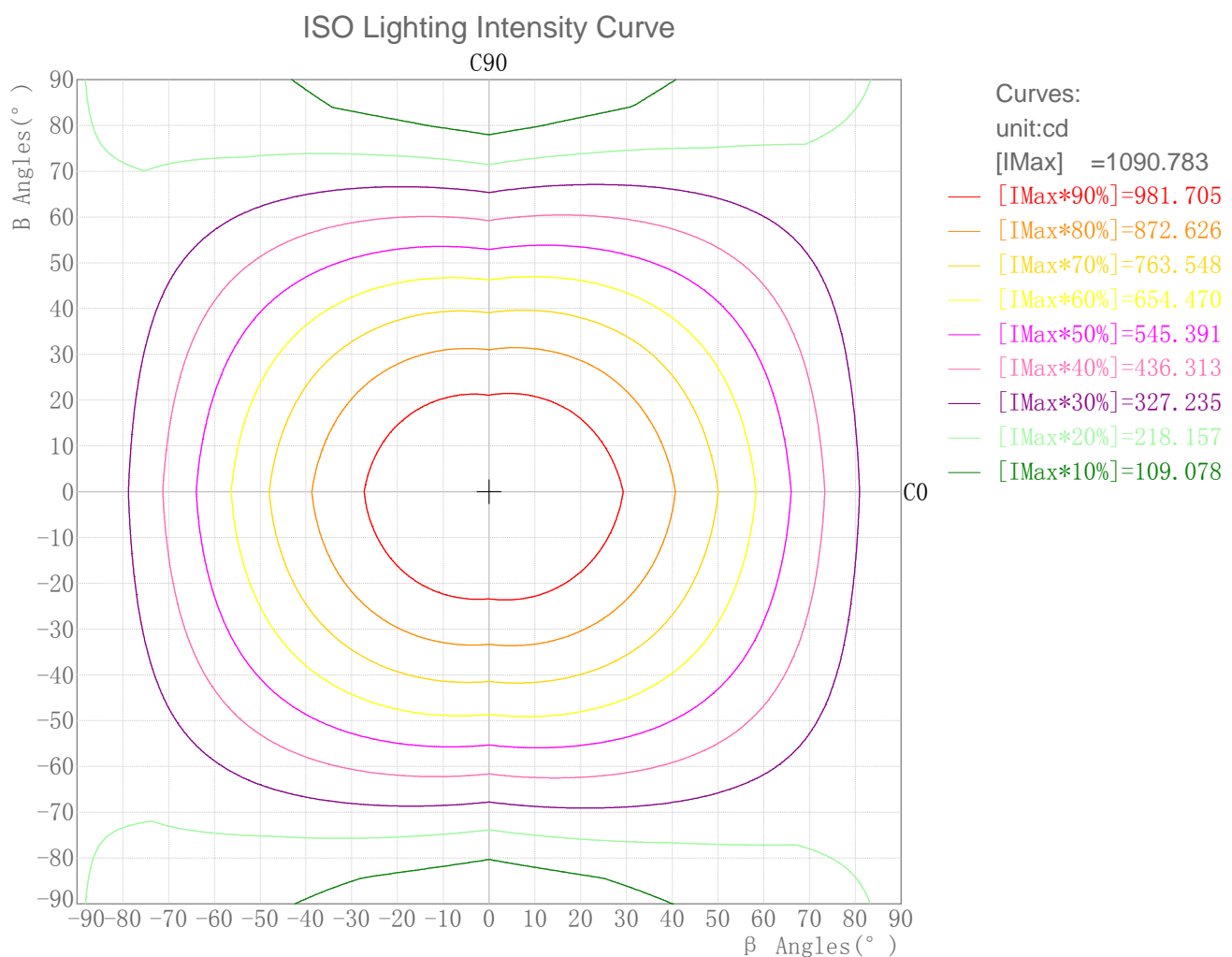
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	26.03	26.03	0.66	0.66
5.0-10.0	77.29	103.32	1.95	2.61
10.0-15.0	126.14	229.46	3.18	5.79
15.0-20.0	170.90	400.36	4.31	10.11
20.0-25.0	210.04	610.40	5.30	15.41
25.0-30.0	242.35	852.75	6.12	21.53
30.0-35.0	266.93	1119.67	6.74	28.27
35.0-40.0	283.23	1402.90	7.15	35.42
40.0-45.0	290.95	1693.85	7.35	42.77
45.0-50.0	290.05	1983.90	7.32	50.09
50.0-55.0	280.69	2264.59	7.09	57.18
55.0-60.0	263.27	2527.86	6.65	63.83
60.0-65.0	238.41	2766.27	6.02	69.84
65.0-70.0	207.13	2973.40	5.23	75.07
70.0-75.0	170.98	3144.38	4.32	79.39
75.0-80.0	132.70	3277.08	3.35	82.74
80.0-85.0	97.31	3374.39	2.46	85.20
85.0-90.0	72.83	3447.22	1.84	87.04
90.0-95.0	62.04	3509.26	1.57	88.60
95.0-100.0	57.53	3566.80	1.45	90.06
100.0-105.0	53.69	3620.49	1.36	91.41
105.0-110.0	50.02	3670.51	1.26	92.68
110.0-115.0	46.24	3716.75	1.17	93.84
115.0-120.0	42.24	3758.99	1.07	94.91
120.0-125.0	38.01	3797.00	0.96	95.87
125.0-130.0	33.32	3830.32	0.84	96.71
130.0-135.0	28.87	3859.19	0.73	97.44
135.0-140.0	24.85	3884.04	0.63	98.07
140.0-145.0	20.79	3904.83	0.52	98.59
145.0-150.0	16.84	3921.67	0.43	99.02
150.0-155.0	13.35	3935.02	0.34	99.35
155.0-160.0	10.23	3945.25	0.26	99.61
160.0-165.0	7.33	3952.59	0.19	99.80
165.0-170.0	4.73	3957.32	0.12	99.92
170.0-175.0	2.54	3959.86	0.06	99.98
175.0-180.0	0.74	3960.59	0.02	100.00

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Rectangle ISO Lighting Intensity Diagram

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Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17



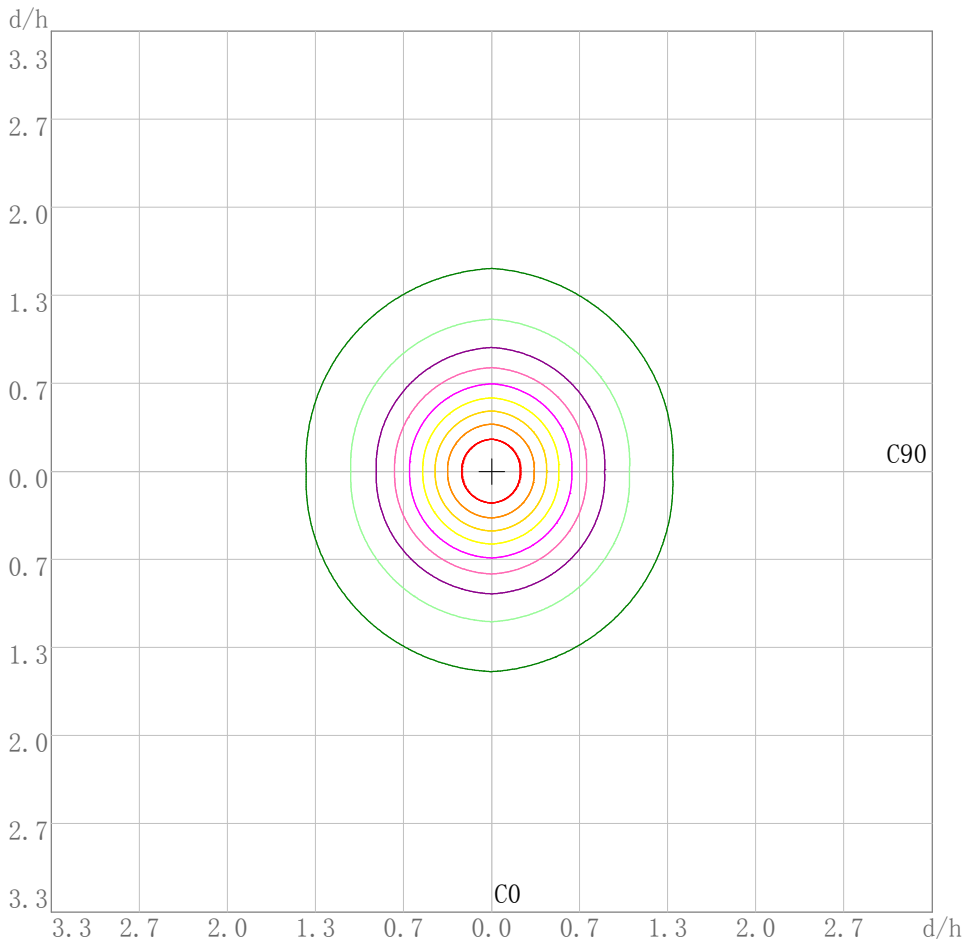
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Plane ISO-Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

Plane ISO-Illuminance Curve



- Curves:
unit: lx
[EMax] = 121.198
— [EMax*90%]=109.078
— [EMax*80%]=96.958
— [EMax*70%]=84.839
— [EMax*60%]=72.719
— [EMax*50%]=60.599
— [EMax*40%]=48.479
— [EMax*30%]=36.359
— [EMax*20%]=24.240
— [EMax*10%]=12.120

Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 121.20

Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

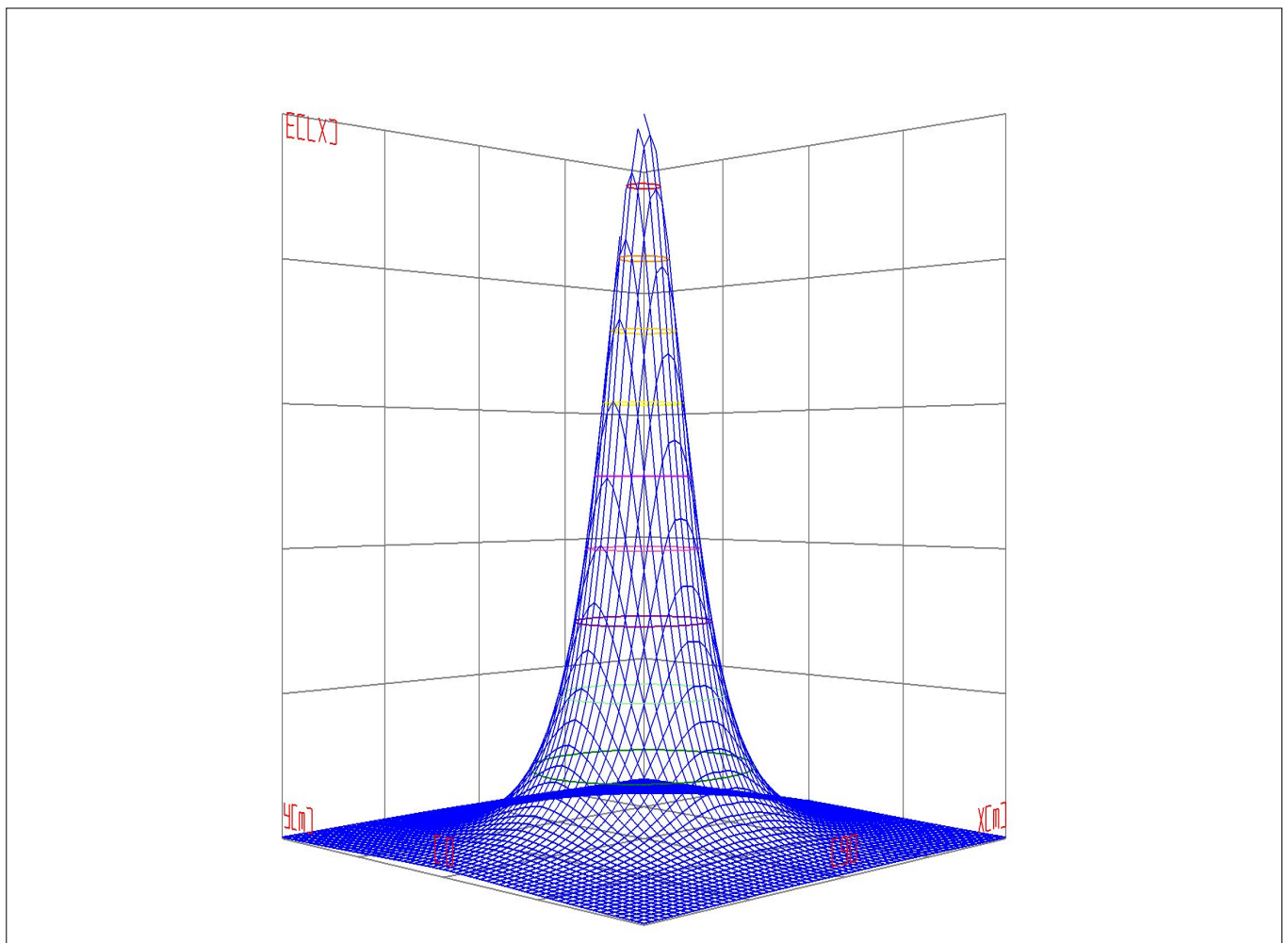
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3D Plane ISO Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

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

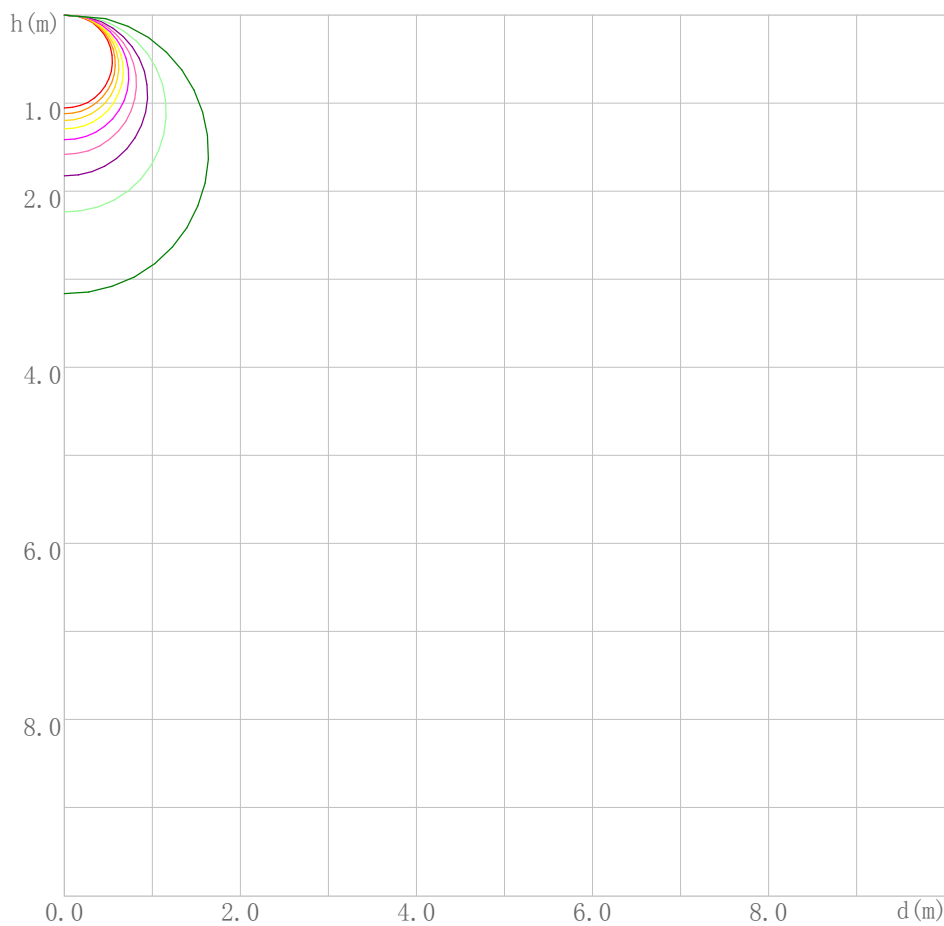
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Space ISO Illuminance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

Space ISO Illuminance Curve



- Curves:
unit: lx
[EMax] = 1090.783
- [EMax*90%]=981.705
 - [EMax*80%]=872.626
 - [EMax*70%]=763.548
 - [EMax*60%]=654.470
 - [EMax*50%]=545.391
 - [EMax*40%]=436.313
 - [EMax*30%]=327.235
 - [EMax*20%]=218.157
 - [EMax*10%]=109.078

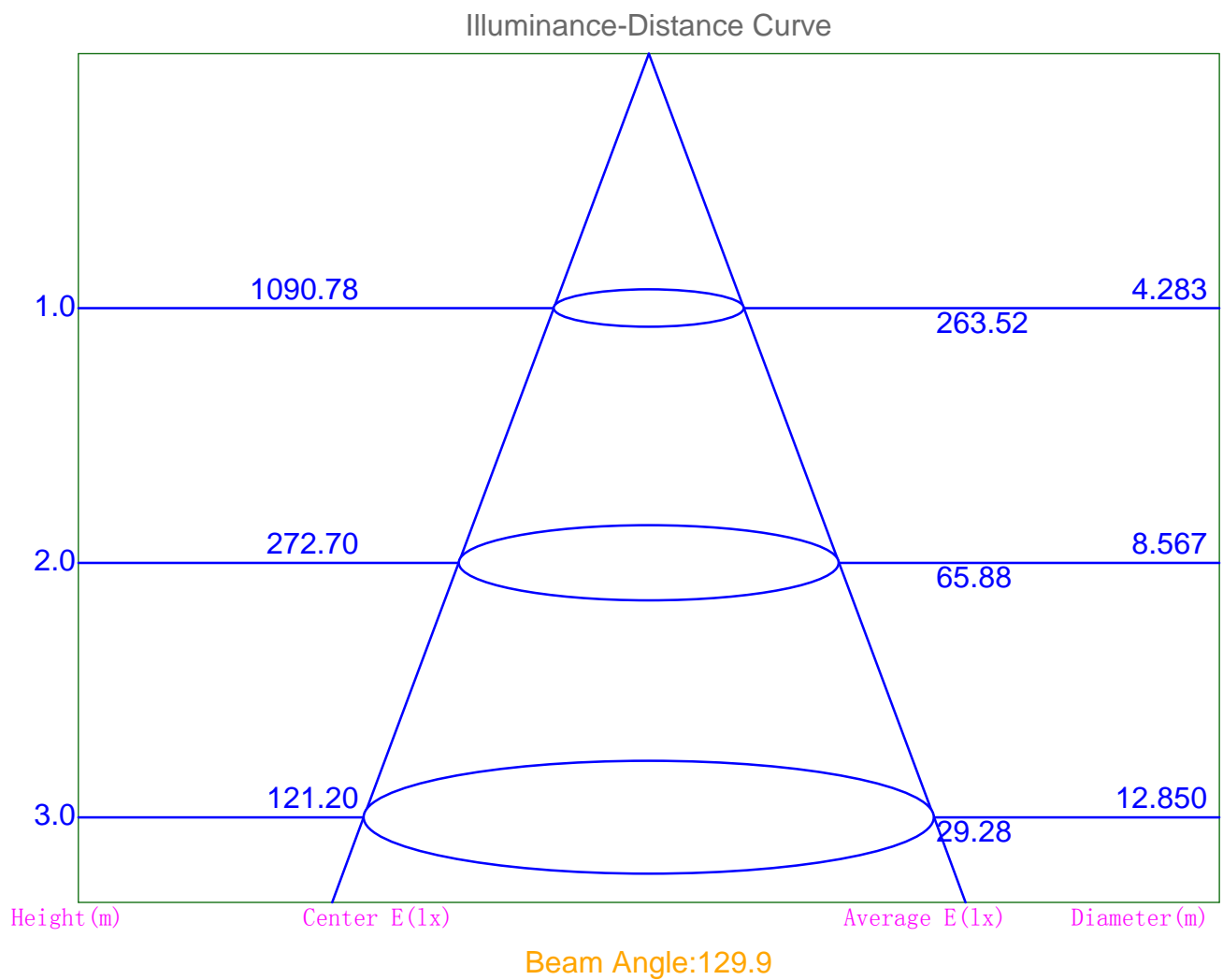
Space Plane Maximum Illuminance and @Angle: 1090.78, 0.0deg
Plane Maximum Lighting Intensity and @Angle: 1090.783cd, 0deg

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Illuminance-Distance Diagram

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17



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Indoor Luminance Limiting Curves

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

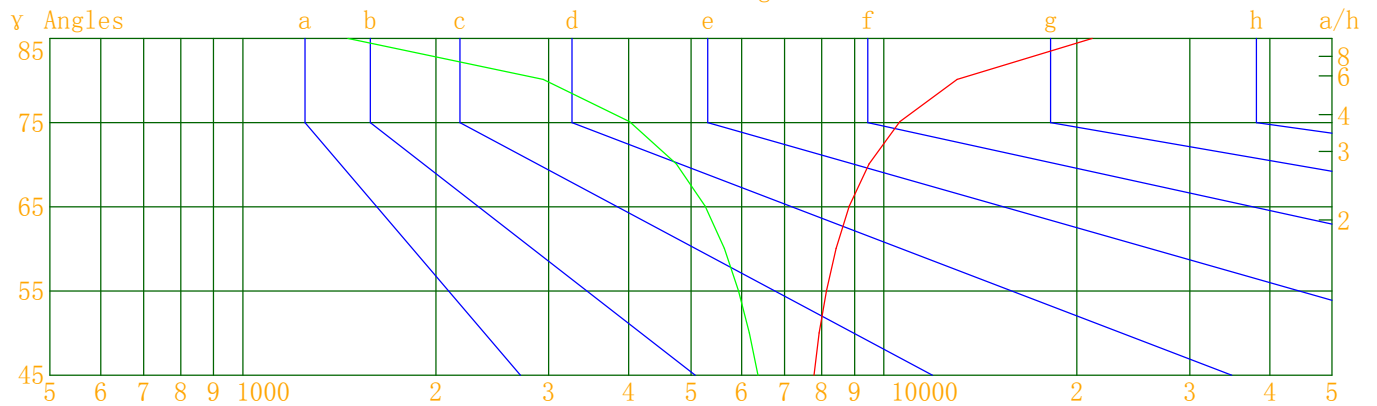
Glare Grade Table

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	7776	7927	8135	8420	8832	9476	10593	13009	21128
C90	6360	6164	5928	5637	5260	4744	4010	2942	1458

Luminance Limiting Curve



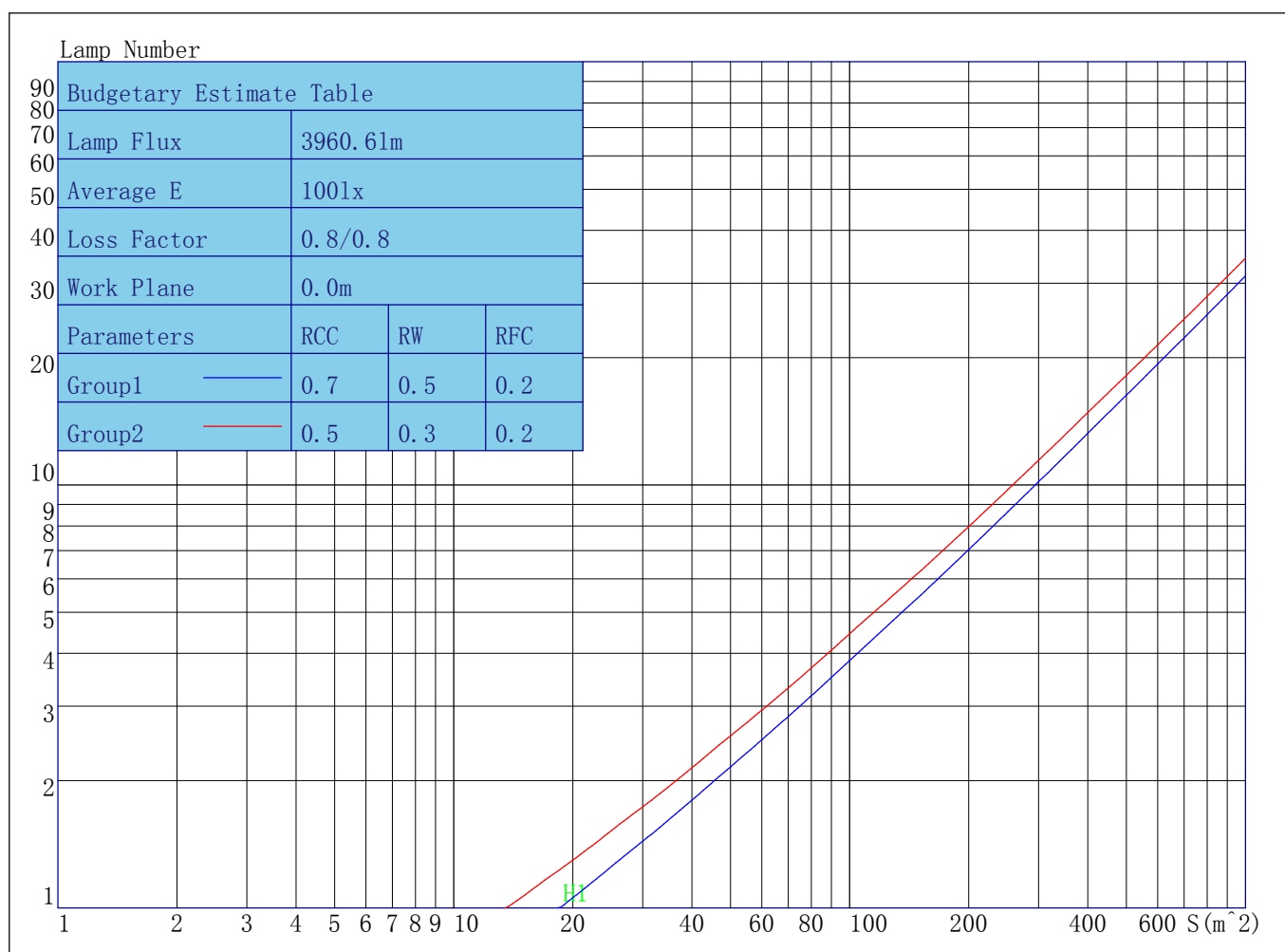
Luminous Size: Length(m)=1.200 Width(m)=0.060 Height(m)=0.065 Area(m^2)=0.150000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17



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

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Indoor Coefficient of Utilization Table

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

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	104	99	94	90	100	96	91	87	89	86	82	83	80	78	77	75	73	70
2	94	86	78	72	91	83	76	71	77	72	67	72	67	63	67	63	60	57
3	86	75	66	60	82	72	64	58	67	61	56	63	57	53	59	54	50	48
4	78	66	57	50	75	64	55	49	60	53	47	56	50	45	52	47	43	40
5	72	59	50	43	69	57	48	42	53	46	40	50	44	39	47	41	37	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	42	37	33	30
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	35	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	28	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	30	25	21	19

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Unified Glare Rating Table

Lum. Name: B36W-CC	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2019/10/17

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	18.2	21.4	19.4	22.7	24.1	16.2	19.5	17.5	20.8	22.1
Y=3H	24.3	27.5	25.6	28.9	30.2	20.4	23.6	21.7	25.0	26.3
Y=4H	28.2	31.1	29.5	32.4	33.8	22.7	25.6	24.0	26.9	28.3
Y=6H	31.7	34.5	33.1	35.9	37.3	24.0	26.7	25.3	28.1	29.5
Y=8H	33.6	36.4	35.0	37.8	39.2	24.3	27.1	25.7	28.4	29.8
Y=12H	35.8	38.5	37.1	39.9	41.3	24.5	27.2	25.8	28.6	30.0
X=4H Y=2H	19.4	22.2	20.7	23.6	25.0	18.6	21.5	20.0	22.8	24.2
Y=3H	25.8	28.6	27.1	30.0	31.4	23.1	26.0	24.5	27.4	28.7
Y=4H	28.1	29.9	29.8	31.6	33.2	24.0	25.8	25.7	27.5	29.1
Y=6H	32.3	34.0	34.0	35.6	37.2	26.0	27.6	27.6	29.2	30.9
Y=8H	34.6	36.2	36.3	37.9	39.5	26.6	28.2	28.3	29.9	31.5
Y=12H	36.4	37.7	38.2	39.5	41.2	26.2	27.5	27.9	29.3	31.0
X=8H Y=4H	28.4	30.1	30.1	31.7	33.3	25.2	26.8	26.9	28.4	30.1
Y=6H	32.1	33.2	33.9	35.0	36.7	26.8	28.0	28.6	29.8	31.5
Y=8H	34.2	35.1	36.1	37.0	38.8	27.5	28.4	29.4	30.3	32.1
Y=12H	37.4	38.2	39.2	40.1	41.9	28.4	29.3	30.3	31.1	33.0
X=12H Y=4H	27.6	28.9	29.3	30.6	32.4	24.6	25.9	26.4	27.7	29.4
Y=6H	31.6	32.6	33.5	34.4	36.2	26.8	27.8	28.7	29.6	31.4
Y=8H	34.3	35.2	36.2	37.0	38.8	28.2	29.1	30.1	30.9	32.7
Variations with the observer position at spacings										
S=1.0H	2.0/-2.1					2.2/-0.2				
S=1.5H	-2.1/-20.5					-0.2/-16.4				
S=2.0H	-2.1/-20.5					-0.2/-16.4				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	1090.78	1090.78	1090.78	1090.78
Y 5.0	1088.88	1082.60	1086.80	1088.06
Y 10.0	1082.33	1063.07	1077.42	1073.52
Y 15.0	1068.28	1032.64	1060.12	1048.26
Y 20.0	1045.88	992.40	1034.48	1012.45
Y 25.0	1014.83	942.90	1000.59	967.17
Y 30.0	976.32	885.43	959.36	913.41
Y 35.0	931.19	821.11	911.70	852.16
Y 40.0	880.47	750.43	858.77	784.46
Y 45.0	824.76	674.62	800.81	711.18
Y 50.0	764.34	594.32	738.72	632.92
Y 55.0	699.87	510.04	672.82	550.68
Y 60.0	631.51	422.74	603.12	465.08
Y 65.0	559.87	333.44	530.23	376.81
Y 70.0	486.15	243.39	455.18	287.02
Y 75.0	411.24	155.70	380.05	197.80
Y 80.0	338.85	76.64	309.95	113.55
Y 85.0	276.21	19.06	254.59	43.65
Y 90.0	235.07	4.68	222.58	8.16
Y 95.0	215.16	6.41	206.26	7.98
Y 100.0	202.20	7.54	193.07	8.29
Y 105.0	191.08	9.09	182.30	9.09
Y 110.0	180.31	11.35	171.96	10.29
Y 115.0	169.48	12.94	161.70	12.45
Y 120.0	158.46	15.01	151.21	13.82
Y 125.0	146.85	16.53	140.60	15.24
Y 130.0	129.69	18.03	129.56	16.53
Y 135.0	122.19	19.46	118.68	17.29
Y 140.0	112.20	20.72	107.84	18.48
Y 145.0	100.51	22.03	96.95	19.64
Y 150.0	88.14	24.92	84.28	21.08
Y 155.0	78.13	27.77	74.43	23.21
Y 160.0	67.79	29.85	63.88	25.22
Y 165.0	57.13	31.55	52.99	27.48
Y 170.0	44.66	32.49	42.78	29.84
Y 175.0	35.87	33.27	33.29	31.97
Y 180.0	28.05	28.05	28.05	28.05
