

IES Indoor Report

Photometric Filename:ICDLT13WCCT-WH-3K.IES

Indoor Luminaire Photometric Data

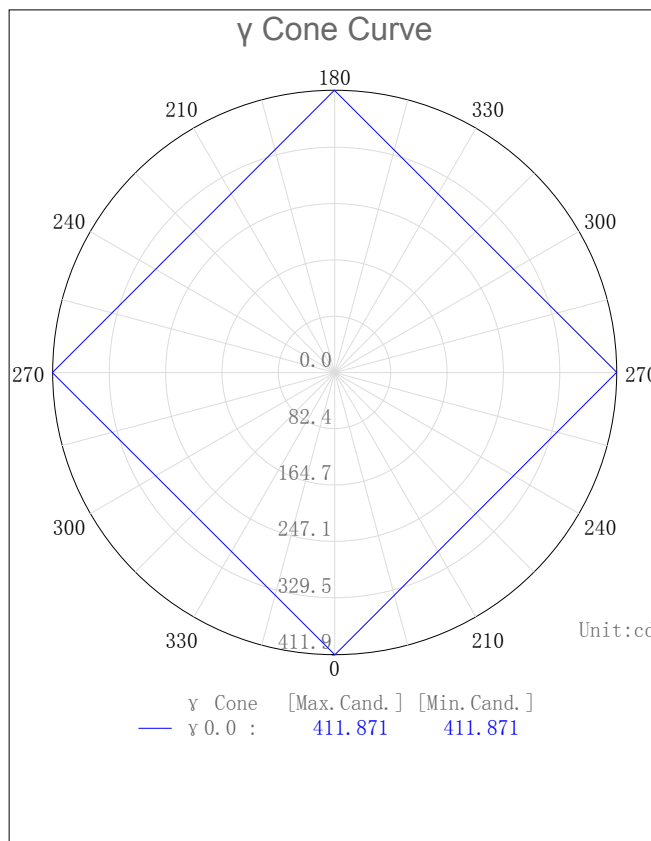
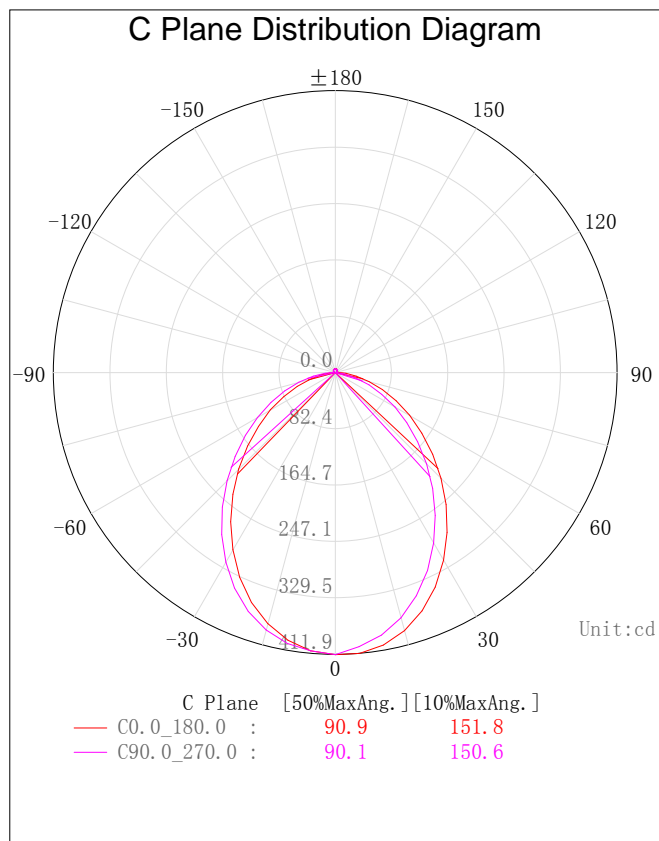
Description Information

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Date: 2020/03/16
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.115m*0.115m*0.053m	Lum. Area(m2):0.019	Lum. W(kg): 0.000
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): 930.590	Luminaire Flux: 930.589lm	Field Angle(10%Imax): 151.8
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 911.253lm 97.92%
Rated Voltage(V):	Luminaire EER(lm/W): 72.930	Up Lumens&Percent: 19.335lm 2.08%
Tested Power(W): 12.760	Max. Cand. (cd): 411.871	S/MH: C0_a180=1.127 C90_270=1.116
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electric:U=240.8V, I=0.054A, PF=0.000	Beam Angle(50%Imax): 90.9	ErP Φuse(120°): 749.308lm
Lamp Size(W*L*H):0.115m*0.115m*0.053m	Left=-44.0 Right=46.9	IRF: 128.520%

Lighting Distribution Diagram



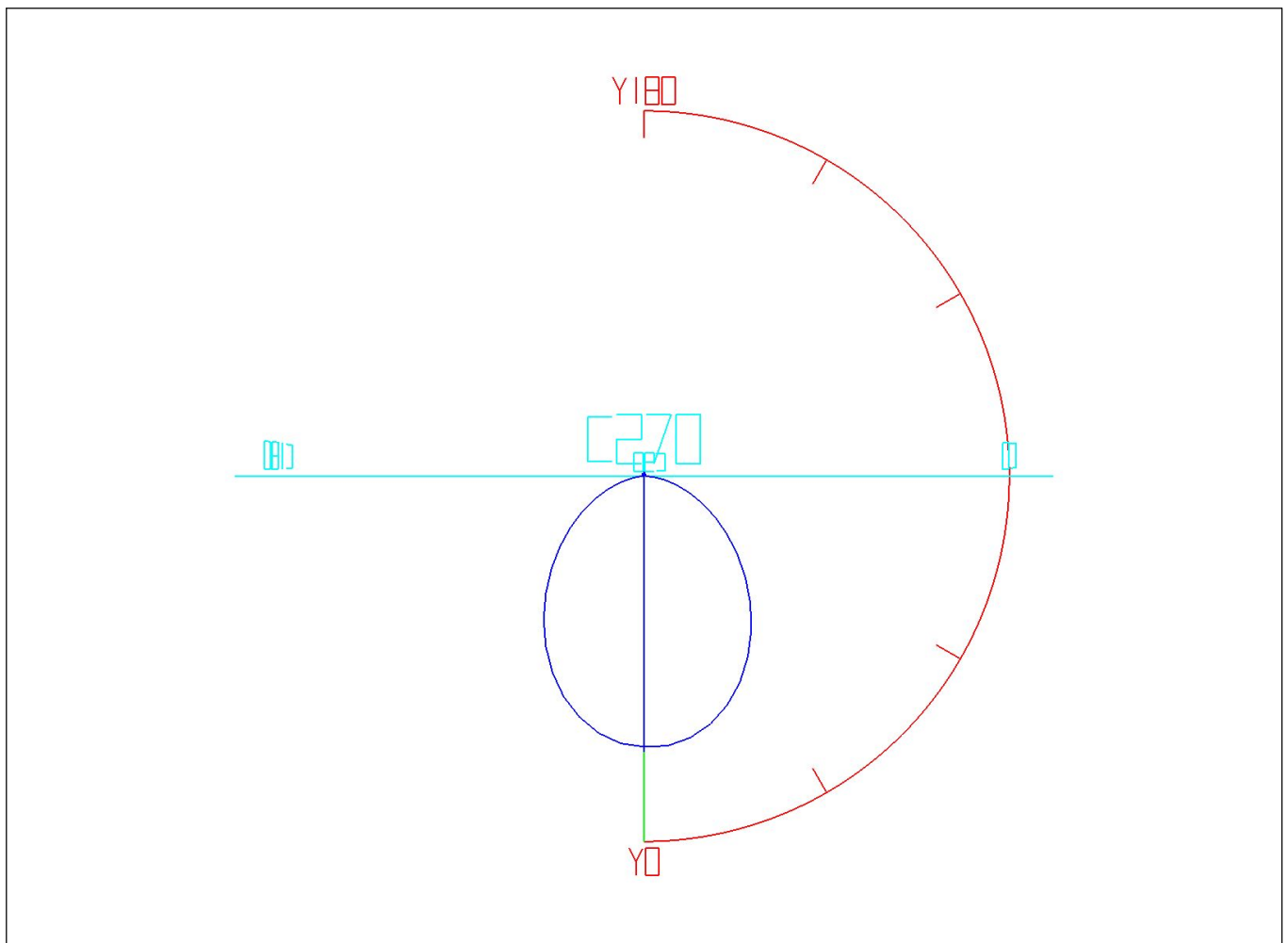
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3D Light Intensity Distribution Modal

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

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

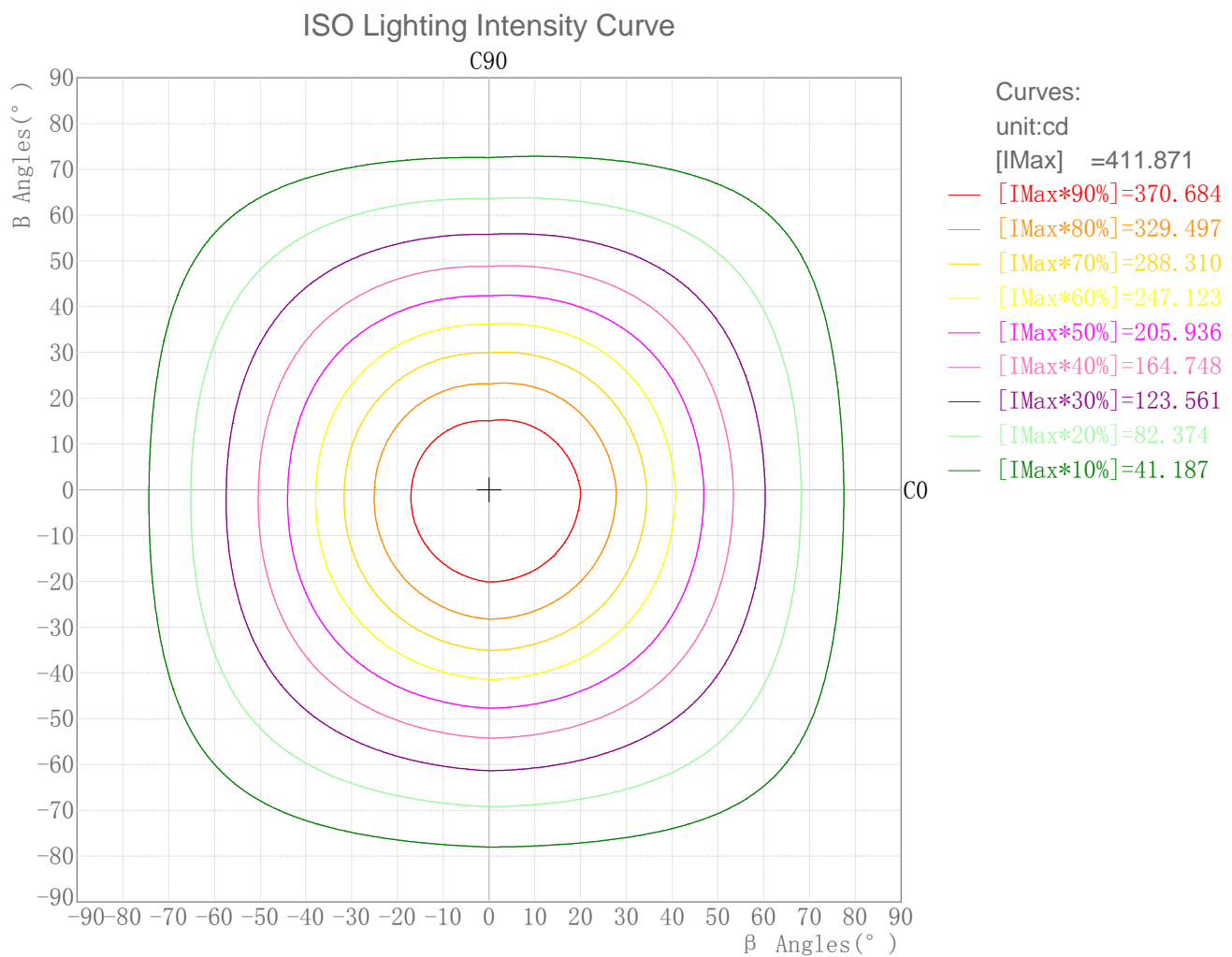
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	9.80	9.80	1.05	1.05
5.0-10.0	28.82	38.62	3.10	4.15
10.0-15.0	46.31	84.93	4.98	9.13
15.0-20.0	61.32	146.25	6.59	15.72
20.0-25.0	73.10	219.36	7.86	23.57
25.0-30.0	81.14	300.50	8.72	32.29
30.0-35.0	85.30	385.80	9.17	41.46
35.0-40.0	85.78	471.58	9.22	50.67
40.0-45.0	82.92	554.50	8.91	59.59
45.0-50.0	77.30	631.80	8.31	67.89
50.0-55.0	69.58	701.38	7.48	75.37
55.0-60.0	60.38	761.76	6.49	81.86
60.0-65.0	50.18	811.94	5.39	87.25
65.0-70.0	39.46	851.41	4.24	91.49
70.0-75.0	28.60	880.01	3.07	94.56
75.0-80.0	18.20	898.21	1.96	96.52
80.0-85.0	9.47	907.67	1.02	97.54
85.0-90.0	3.58	911.25	0.38	97.92
90.0-95.0	1.23	912.48	0.13	98.05
95.0-100.0	1.01	913.50	0.11	98.16
100.0-105.0	1.06	914.56	0.11	98.28
105.0-110.0	1.15	915.71	0.12	98.40
110.0-115.0	1.23	916.93	0.13	98.53
115.0-120.0	1.30	918.24	0.14	98.67
120.0-125.0	1.37	919.61	0.15	98.82
125.0-130.0	1.41	921.01	0.15	98.97
130.0-135.0	1.43	922.44	0.15	99.12
135.0-140.0	1.41	923.85	0.15	99.28
140.0-145.0	1.36	925.21	0.15	99.42
145.0-150.0	1.27	926.48	0.14	99.56
150.0-155.0	1.15	927.63	0.12	99.68
155.0-160.0	1.00	928.64	0.11	99.79
160.0-165.0	0.82	929.46	0.09	99.88
165.0-170.0	0.62	930.08	0.07	99.94
170.0-175.0	0.38	930.46	0.04	99.99
175.0-180.0	0.13	930.59	0.01	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16



Maximum Light Intensity(cd): 411.87

Maximum Cand.@Angle: H=0.0°,V=0.0°

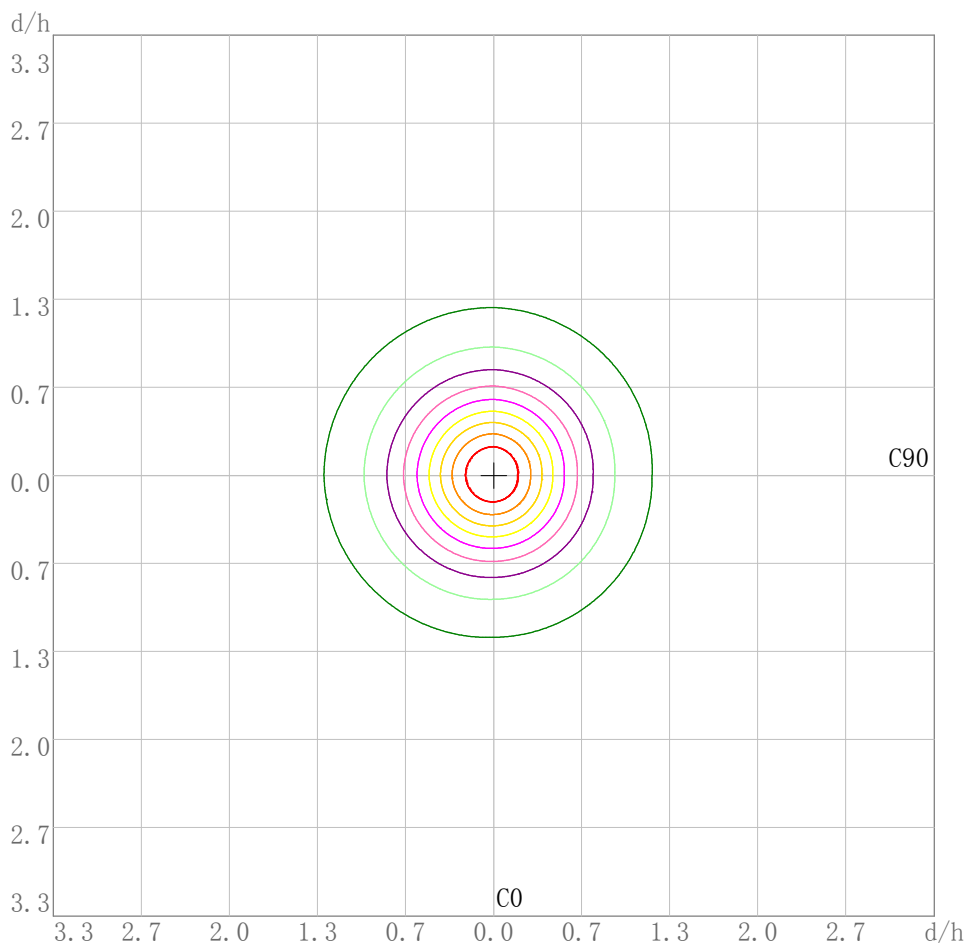
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Plane ISO-Illuminance Diagram

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

Plane ISO-Illuminance Curve



- Curves:
unit:lx
- [EMax] =45.763
 - [EMax*90%]=41.187
 - [EMax*80%]=36.611
 - [EMax*70%]=32.034
 - [EMax*60%]=27.458
 - [EMax*50%]=22.882
 - [EMax*40%]=18.305
 - [EMax*30%]=13.729
 - [EMax*20%]=9.153
 - [EMax*10%]=4.576

Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 45.76

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

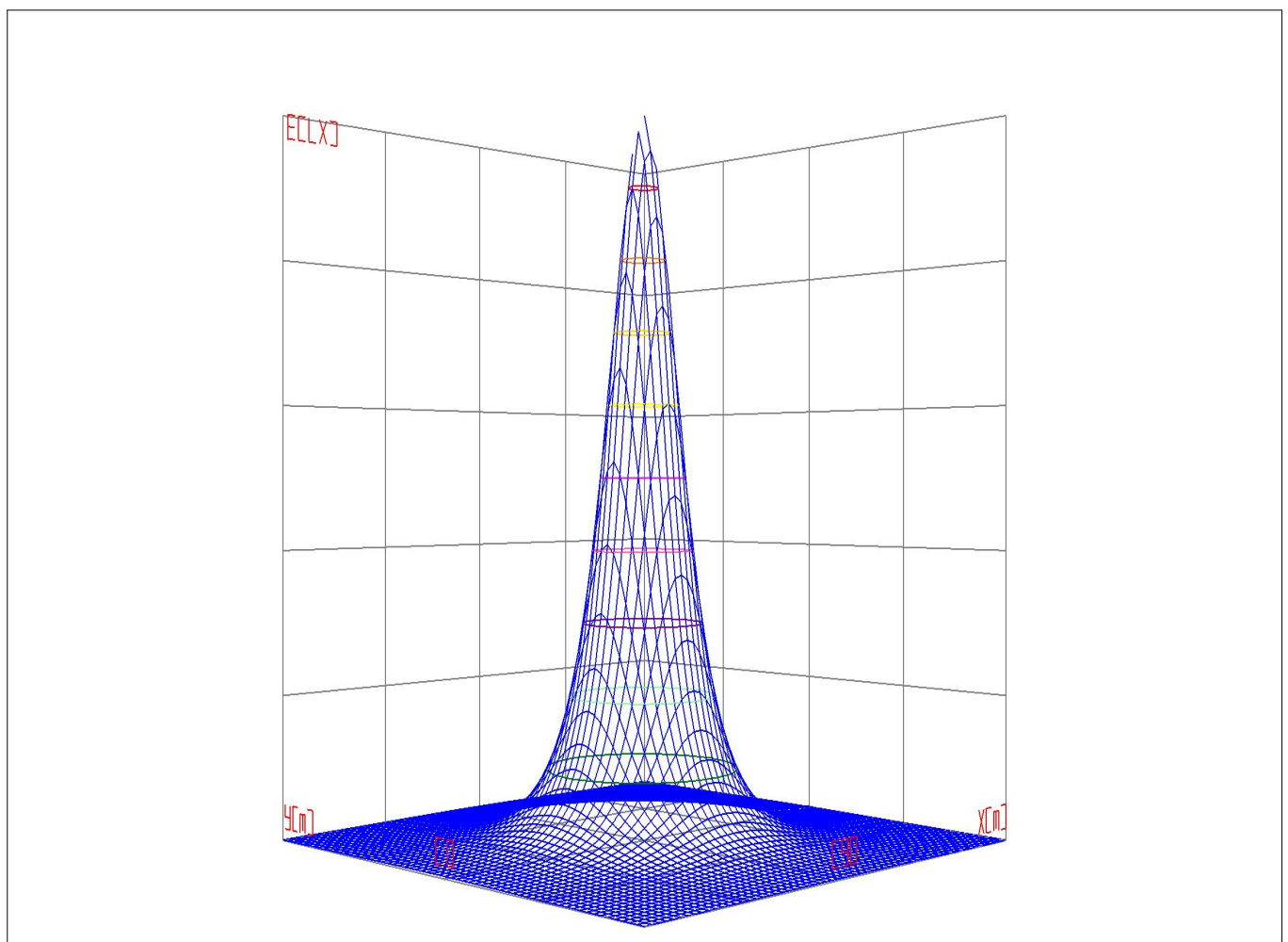
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3D Plane ISO Illuminance Diagram

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

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

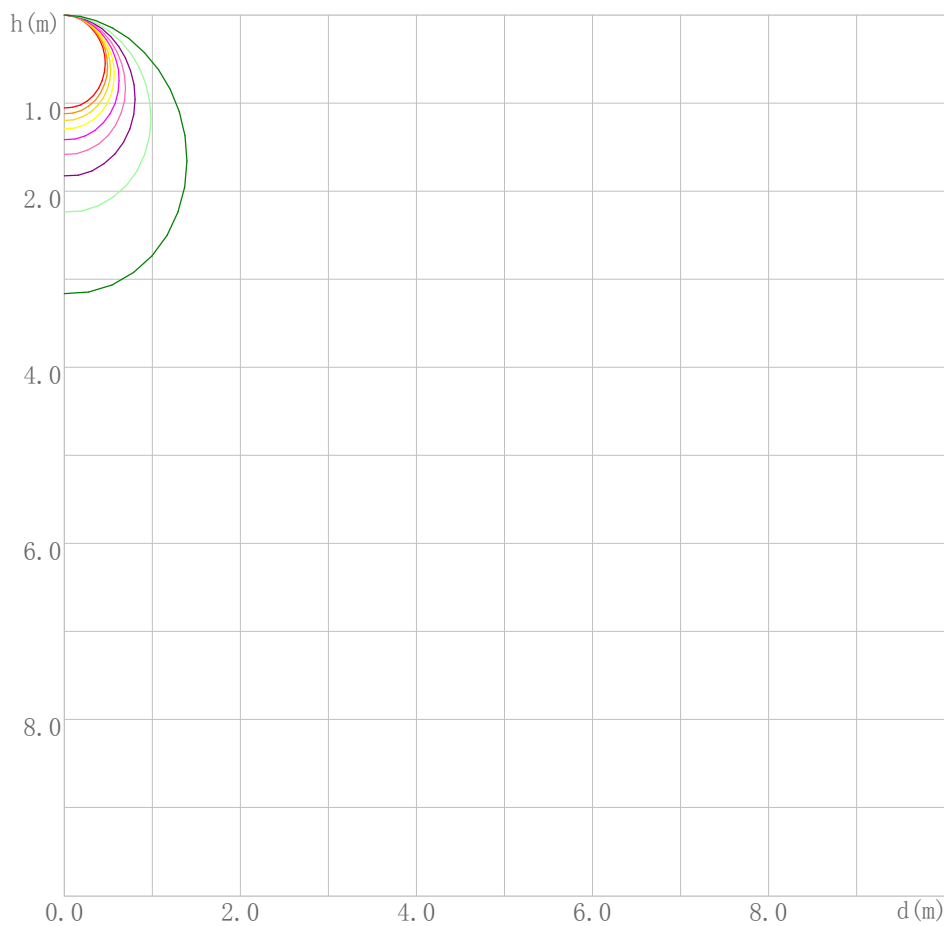
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Space ISO Illuminance Diagram

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

Space ISO Illuminance Curve



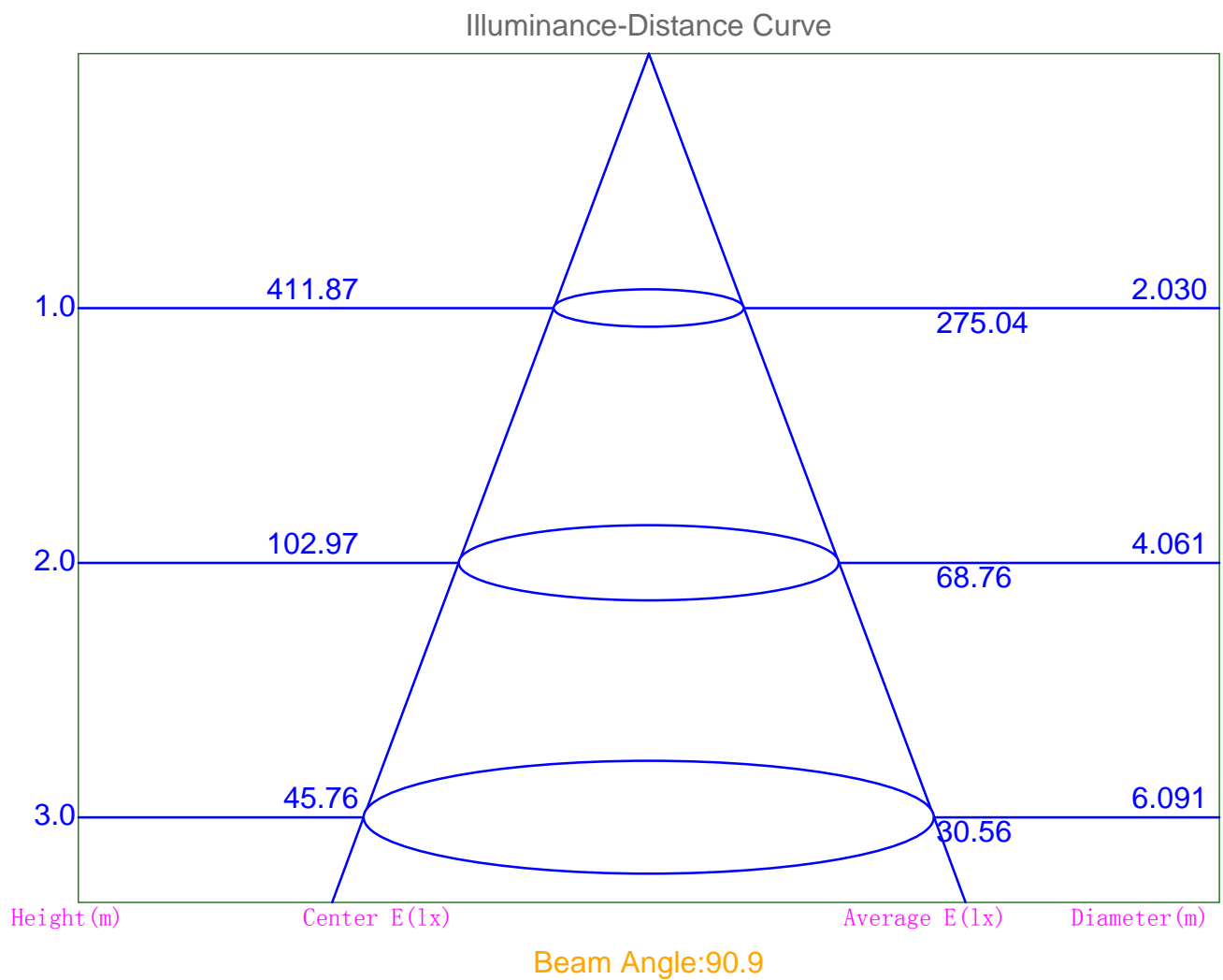
Space Plane Maximum Illuminance and @Angle:411.87,0.0deg
Plane Maximum Lighting Intensity and @Angle:411.871cd,0deg

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Illuminance-Distance Diagram

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16



Indoor Luminance Limiting Curves

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

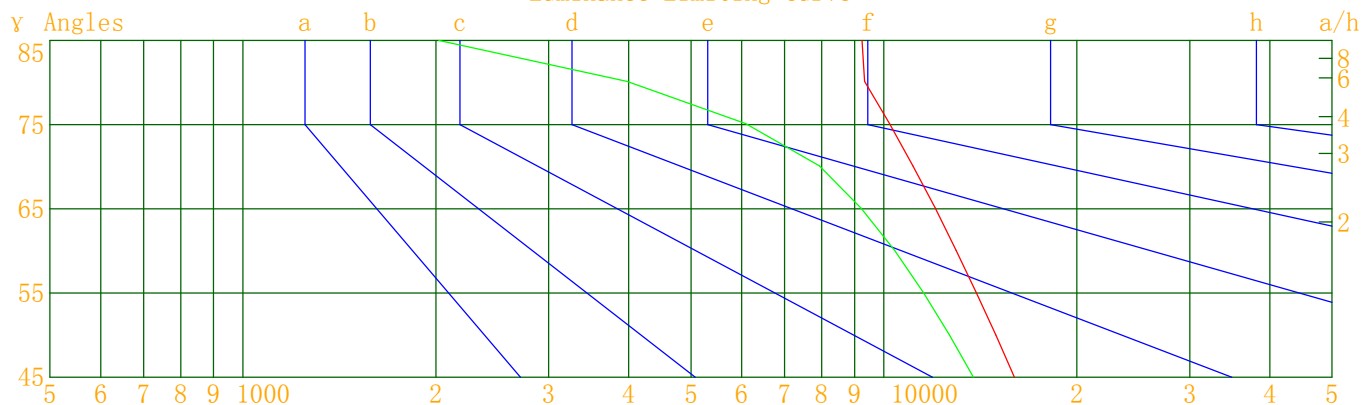
Glare Grade Table

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	15986	14951	13938	12970	12031	11101	10200	9335	9244
C90	13800	12660	11528	10396	9217	7938	6089	3976	2023

Luminance Limiting Curve



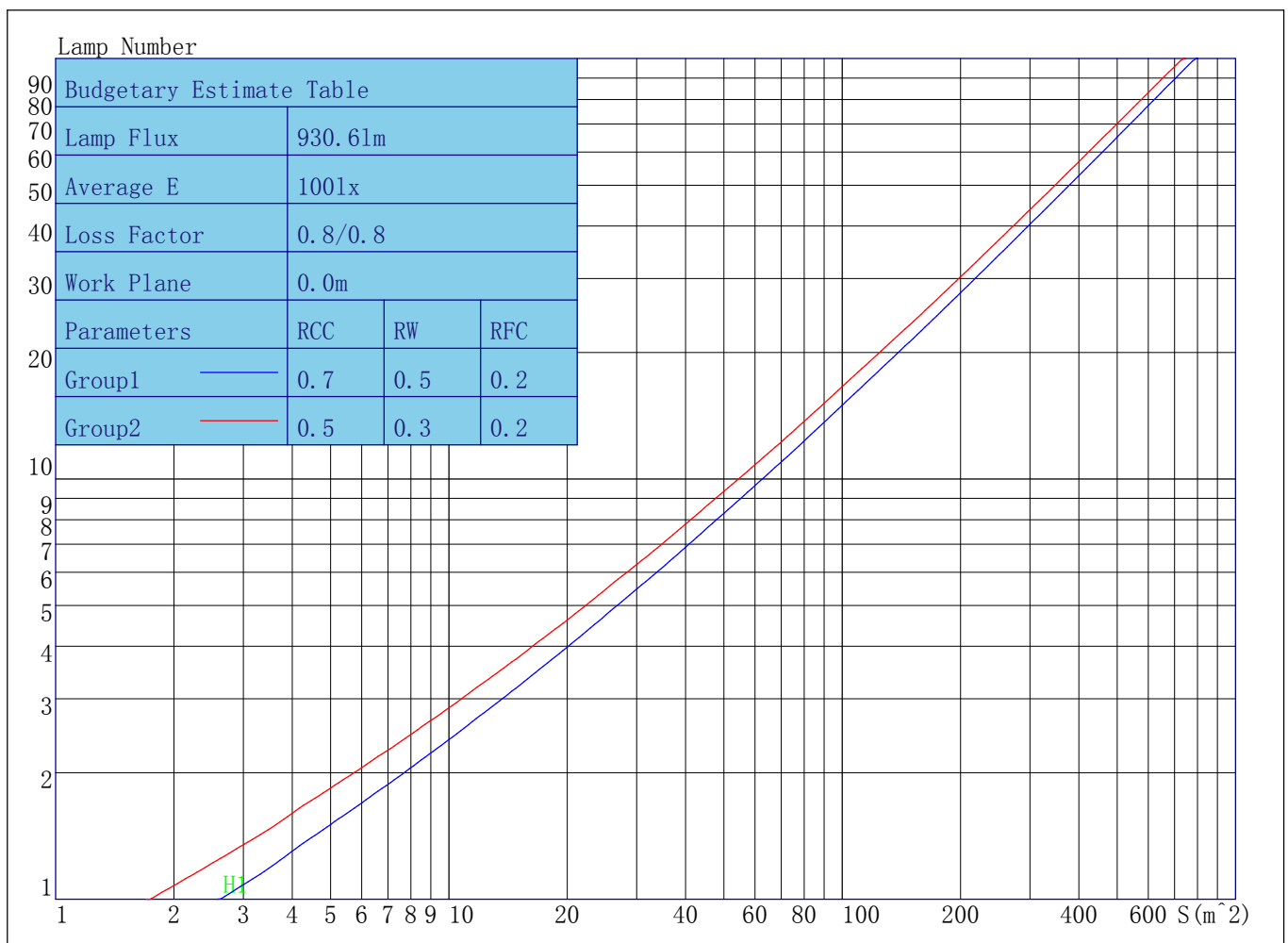
Luminous Size: Length(m)=0.115 Width(m)=0.115 Height(m)=0.053 Area(m^2)=0.019320
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16



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: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	95	98	95	92	93	91	89	90	88	86	84
2	100	92	86	81	97	90	85	80	86	82	77	83	79	75	80	76	73	71
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	71	67	63	61
4	84	73	65	59	82	72	64	58	69	62	57	66	61	56	64	59	55	53
5	78	66	57	51	76	65	57	51	62	55	50	60	54	49	58	53	49	46
6	72	60	51	45	70	59	51	45	57	50	44	55	48	44	53	48	43	41
7	67	54	46	40	65	53	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	27

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Unified Glare Rating Table

Lum. Name: ICDLT13WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/03/16

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	35.7	39.0	36.5	39.7	40.5	34.5	37.9	35.4	38.6	39.3
	Y=3H	39.5	42.8	40.3	43.6	44.3	37.6	41.0	38.5	41.7	42.4
	Y=4H	41.9	44.8	42.8	45.5	46.3	39.5	42.4	40.4	43.1	43.9
	Y=6H	43.4	46.2	44.2	46.9	47.6	40.2	43.0	41.1	43.8	44.5
	Y=8H	44.0	46.7	44.8	47.5	48.2	40.4	43.1	41.2	43.9	44.6
	Y=12H	44.4	47.1	45.2	47.9	48.6	40.4	43.1	41.3	43.9	44.6
X=4H	Y=2H	36.7	39.6	37.6	40.3	41.0	36.0	38.8	36.8	39.6	40.3
	Y=3H	40.7	43.6	41.6	44.4	45.1	39.3	42.2	40.2	42.9	43.6
	Y=4H	41.7	43.3	42.8	44.3	45.2	39.7	41.3	40.8	42.3	43.3
	Y=6H	43.6	45.0	44.7	46.0	46.9	40.8	42.3	41.9	43.3	44.2
	Y=8H	44.4	45.8	45.4	46.8	47.7	41.1	42.5	42.2	43.5	44.4
	Y=12H	44.1	45.3	45.3	46.4	47.4	40.3	41.5	41.5	42.6	43.6
X=8H	Y=4H	41.9	43.3	43.0	44.3	45.2	40.1	41.5	41.2	42.5	43.4
	Y=6H	43.1	44.0	44.3	45.2	46.2	40.5	41.5	41.7	42.6	43.6
	Y=8H	43.5	44.3	44.8	45.5	46.5	40.5	41.3	41.8	42.5	43.5
	Y=12H	44.4	45.1	45.6	46.3	47.3	40.8	41.5	42.0	42.7	43.7
X=12H	Y=4H	40.9	42.1	42.1	43.2	44.2	39.2	40.4	40.4	41.5	42.5
	Y=6H	42.6	43.4	43.8	44.6	45.6	40.1	40.9	41.4	42.1	43.2
	Y=8H	43.5	44.2	44.8	45.4	46.5	40.6	41.3	41.9	42.5	43.6
Variations with the objver position at spacings											
	S=1.0H	2.8/-1.6					2.9/-0.5				
	S=1.5H	-1.6/-20.7					-0.5/-18.8				
	S=2.0H	-1.6/-20.7					-0.5/-18.8				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	411.87	411.87	411.87	411.87
Y 5.0	411.87	402.03	408.22	408.23
Y 10.0	404.31	389.31	397.05	401.91
Y 15.0	390.45	370.93	379.55	389.38
Y 20.0	370.59	346.95	357.23	371.26
Y 25.0	345.84	318.97	329.67	347.54
Y 30.0	316.48	287.57	298.94	319.65
Y 35.0	284.87	254.72	266.02	288.87
Y 40.0	251.72	221.45	232.33	256.47
Y 45.0	218.39	188.53	199.02	223.41
Y 50.0	185.67	157.22	167.03	190.98
Y 55.0	154.46	127.75	136.96	160.02
Y 60.0	125.29	100.43	109.06	130.90
Y 65.0	98.23	75.26	82.98	103.57
Y 70.0	73.35	52.45	59.18	78.40
Y 75.0	51.01	30.44	38.13	54.74
Y 80.0	31.32	13.34	20.77	32.28
Y 85.0	15.56	3.41	7.91	14.74
Y 90.0	3.29	1.06	1.13	5.18
Y 95.0	2.29	1.27	1.35	2.38
Y 100.0	2.29	1.48	1.55	2.32
Y 105.0	2.38	1.76	1.80	2.34
Y 110.0	2.57	2.06	2.12	2.53
Y 115.0	2.72	2.34	2.39	2.65
Y 120.0	3.00	2.68	2.74	2.91
Y 125.0	3.22	2.95	3.02	3.15
Y 130.0	3.52	3.28	3.39	3.36
Y 135.0	3.79	3.58	3.65	3.69
Y 140.0	4.06	3.87	3.99	3.88
Y 145.0	4.26	4.14	4.22	4.16
Y 150.0	4.53	4.35	4.50	4.39
Y 155.0	4.73	4.63	4.74	4.58
Y 160.0	4.97	4.81	4.97	4.82
Y 165.0	5.16	5.04	5.20	5.05
Y 170.0	5.35	5.20	5.34	5.20
Y 175.0	5.46	5.30	5.47	5.36
Y 180.0	5.46	5.46	5.46	5.46
