

IES Indoor Report

Photometric Filename:ICDLR12WCTA-WH 3K.IES

Indoor Luminaire Photometric Data

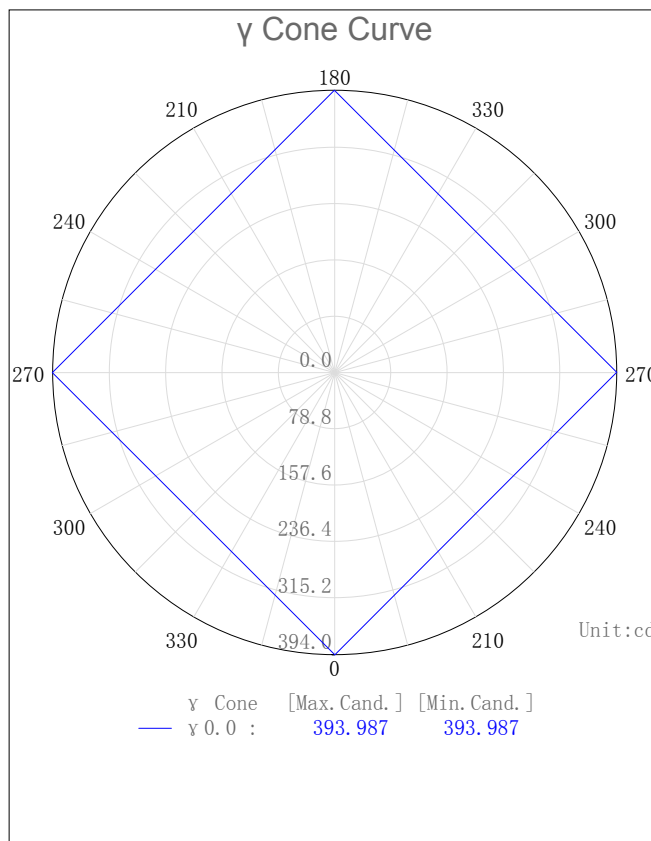
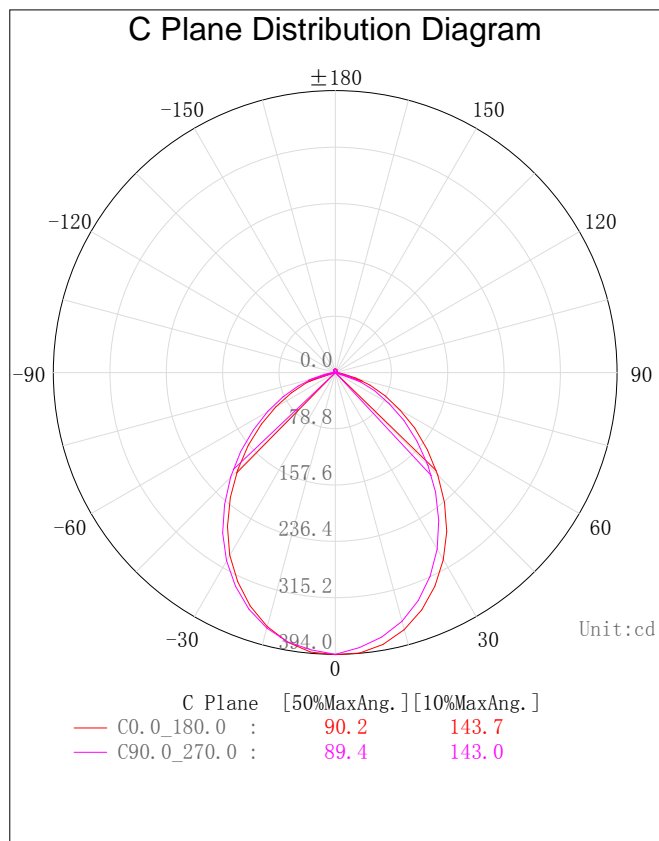
Description Information

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Date: 2019/01/14
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.108m*0.108m*0.042m	Lum. Area(m2):0.016	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): 841.890	Luminaire Flux: 841.892lm	Field Angle(10%Imax): 143.7	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 827.677lm 98.31%	
Rated Voltage(V):	Luminaire EER(lm/W): 69.064	Up Lumens&Percent: 14.215lm 1.69%	
Tested Power(W): 12.190	Max. Cand. (cd): 393.987	S/MH: C0_a180=1.139 C90_270=1.127	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=240.9V, I=0.060A, PF=0.000	Beam Angle(50%Imax): 90.2	ErP Φuse(120°): 714.912lm	
Lamp Size(W*L*H):0.108m*0.108m*0.042m	Left=-44.4 Right=45.8	IRF: 129.530%	

Lighting Distribution Diagram



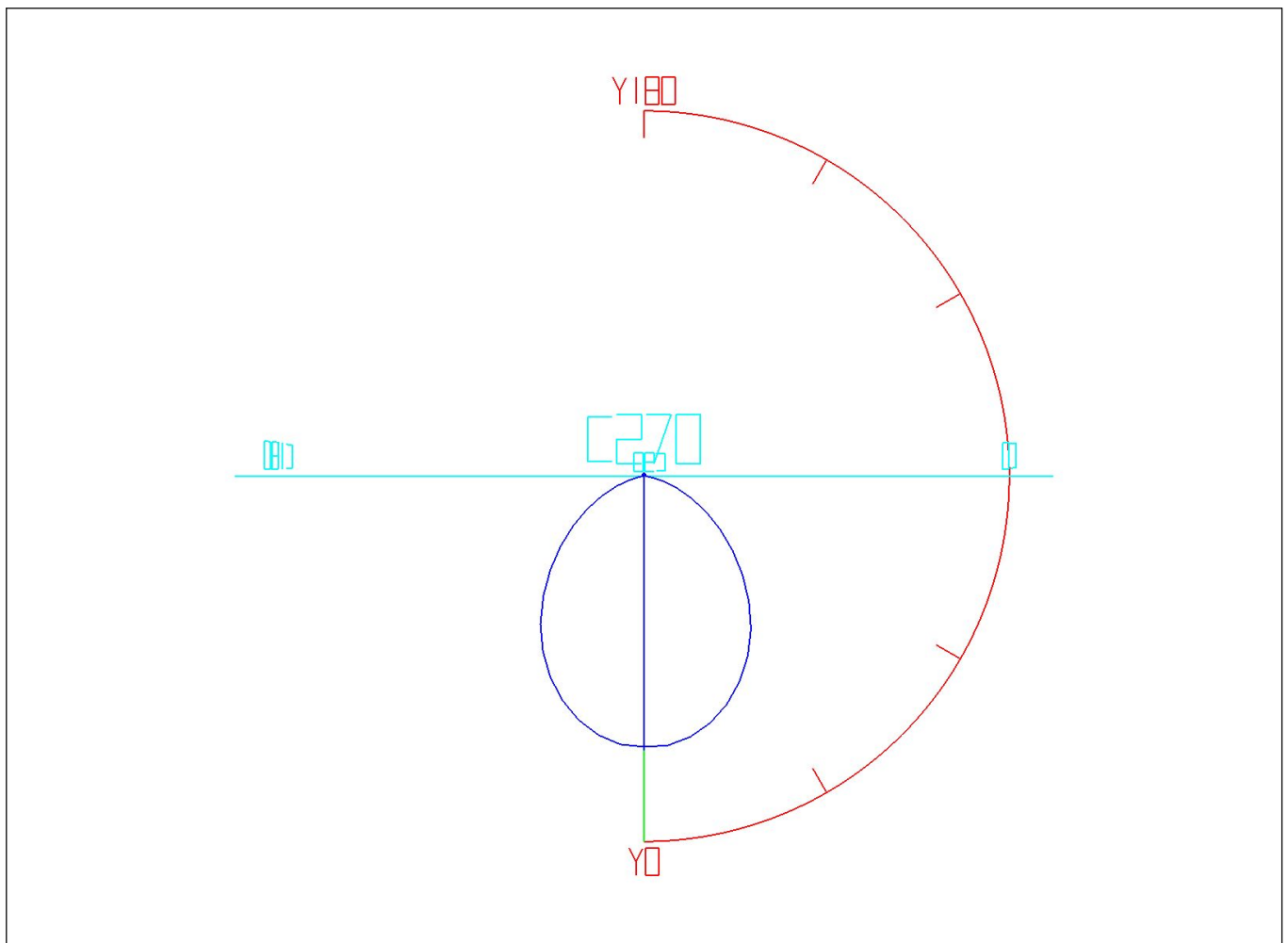
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3D Light Intensity Distribution Modal

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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

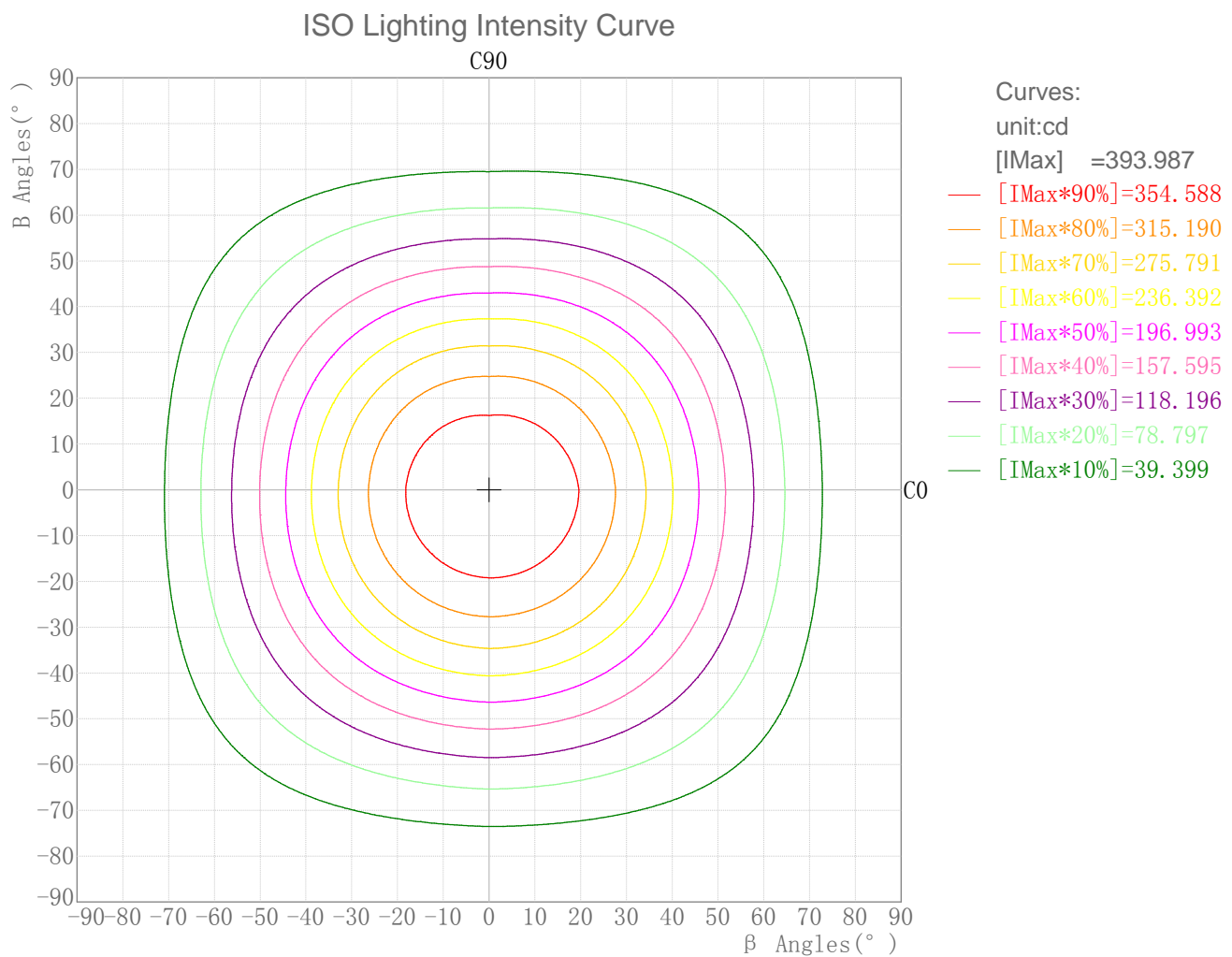
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	9.37	9.37	1.11	1.11
5.0-10.0	27.60	36.98	3.28	4.39
10.0-15.0	44.41	81.38	5.27	9.67
15.0-20.0	58.93	140.31	7.00	16.67
20.0-25.0	70.45	210.76	8.37	25.03
25.0-30.0	78.48	289.24	9.32	34.36
30.0-35.0	82.66	371.90	9.82	44.17
35.0-40.0	82.77	454.67	9.83	54.01
40.0-45.0	79.09	533.77	9.39	63.40
45.0-50.0	72.38	606.14	8.60	72.00
50.0-55.0	63.36	669.51	7.53	79.52
55.0-60.0	52.79	722.30	6.27	85.79
60.0-65.0	41.37	763.66	4.91	90.71
65.0-70.0	29.83	793.49	3.54	94.25
70.0-75.0	18.96	812.46	2.25	96.50
75.0-80.0	9.79	822.25	1.16	97.67
80.0-85.0	4.01	826.26	0.48	98.14
85.0-90.0	1.42	827.68	0.17	98.31
90.0-95.0	0.57	828.25	0.07	98.38
95.0-100.0	0.59	828.84	0.07	98.45
100.0-105.0	0.66	829.49	0.08	98.53
105.0-110.0	0.74	830.24	0.09	98.62
110.0-115.0	0.84	831.08	0.10	98.72
115.0-120.0	0.93	832.01	0.11	98.83
120.0-125.0	1.01	833.02	0.12	98.95
125.0-130.0	1.07	834.08	0.13	99.07
130.0-135.0	1.11	835.19	0.13	99.20
135.0-140.0	1.11	836.30	0.13	99.34
140.0-145.0	1.09	837.39	0.13	99.47
145.0-150.0	1.04	838.43	0.12	99.59
150.0-155.0	0.95	839.39	0.11	99.70
155.0-160.0	0.84	840.23	0.10	99.80
160.0-165.0	0.70	840.92	0.08	99.89
165.0-170.0	0.53	841.45	0.06	99.95
170.0-175.0	0.33	841.78	0.04	99.99
175.0-180.0	0.11	841.89	0.01	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



Maximum Light Intensity(cd): 393.99

Maximum Cand.@Angle: H=0.0°,V=0.0°

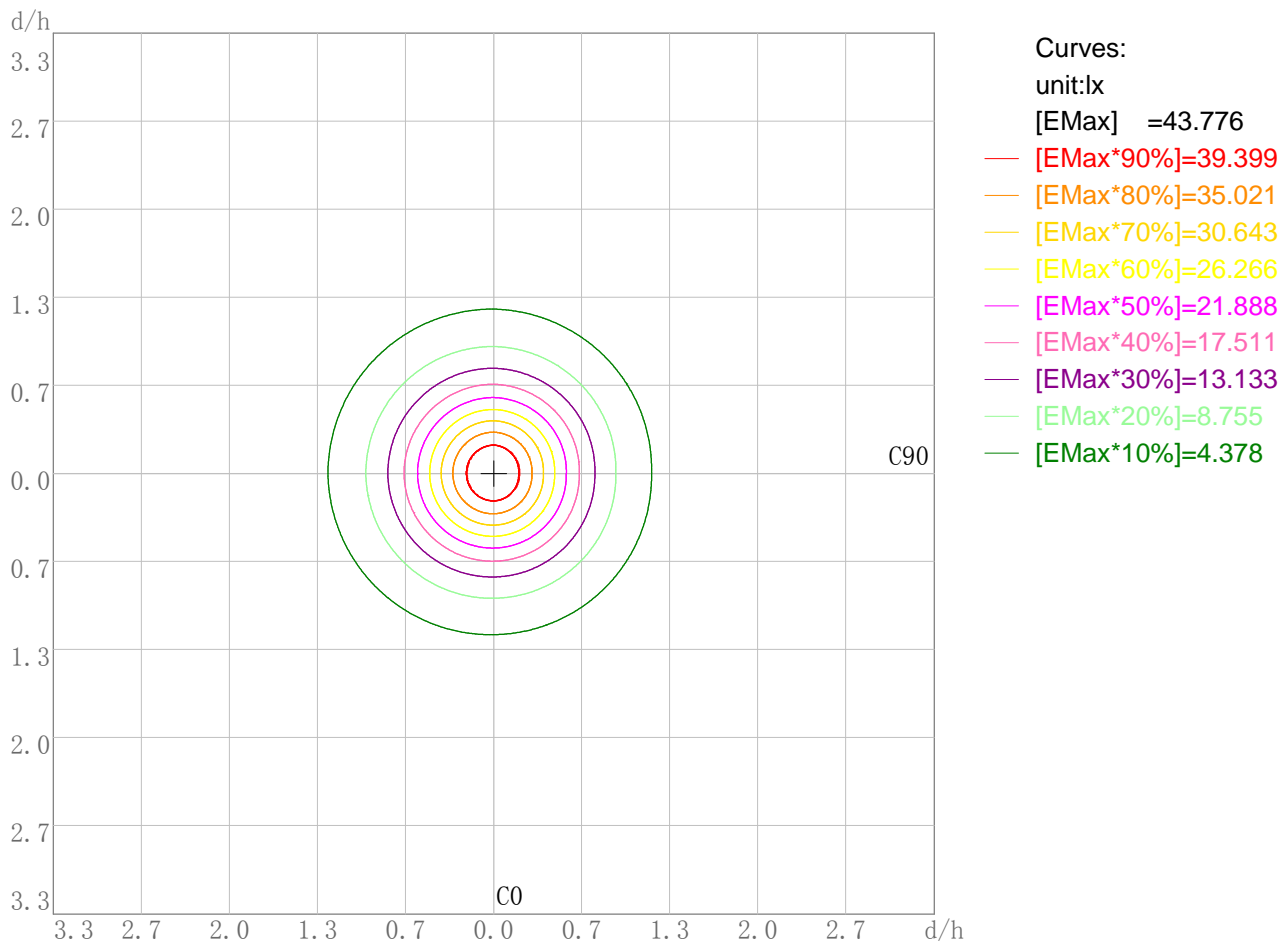
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Plane ISO-Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 43.78
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

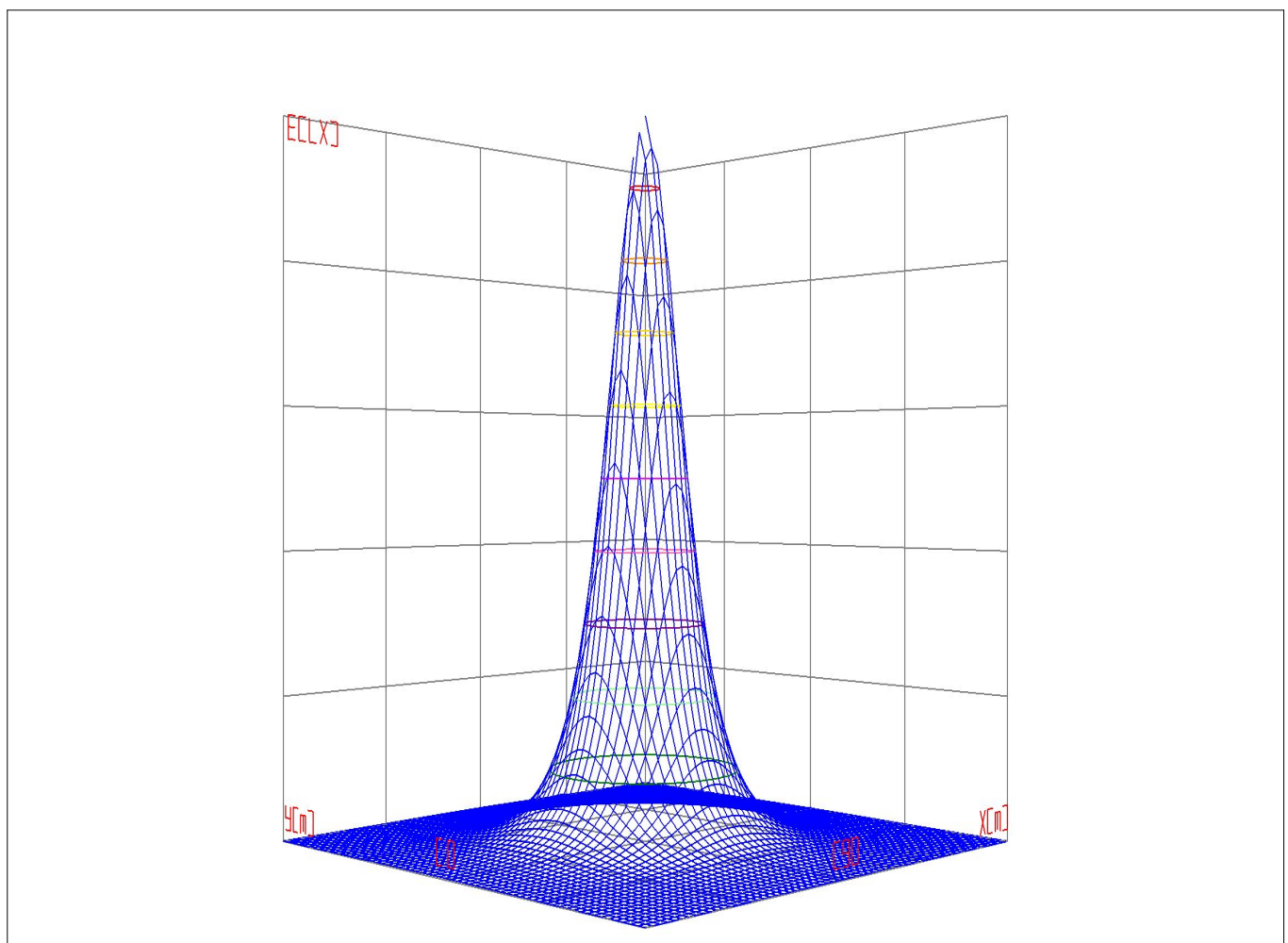
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3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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

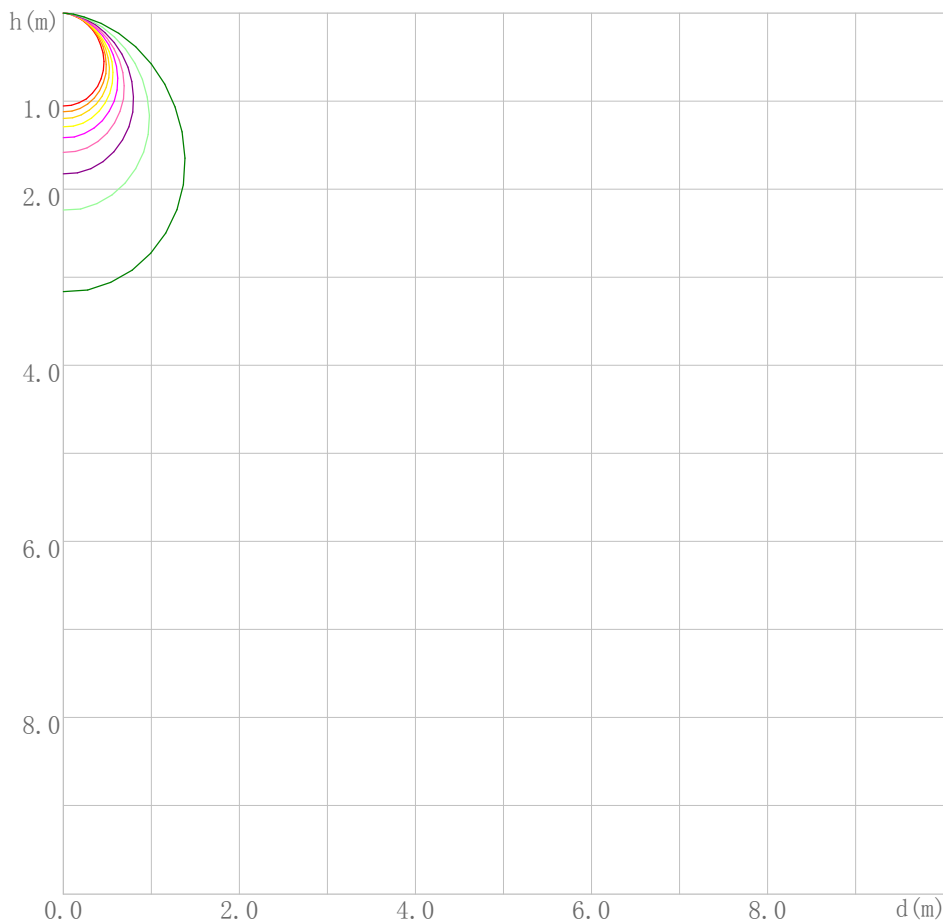
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Space ISO Illuminance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

Space ISO Illuminance Curve



Curves:
unit:lx
[EMax] =393.987
— [EMax*90%]=354.588
— [EMax*80%]=315.190
— [EMax*70%]=275.791
— [EMax*60%]=236.392
— [EMax*50%]=196.993
— [EMax*40%]=157.595
— [EMax*30%]=118.196
— [EMax*20%]=78.797
— [EMax*10%]=39.399

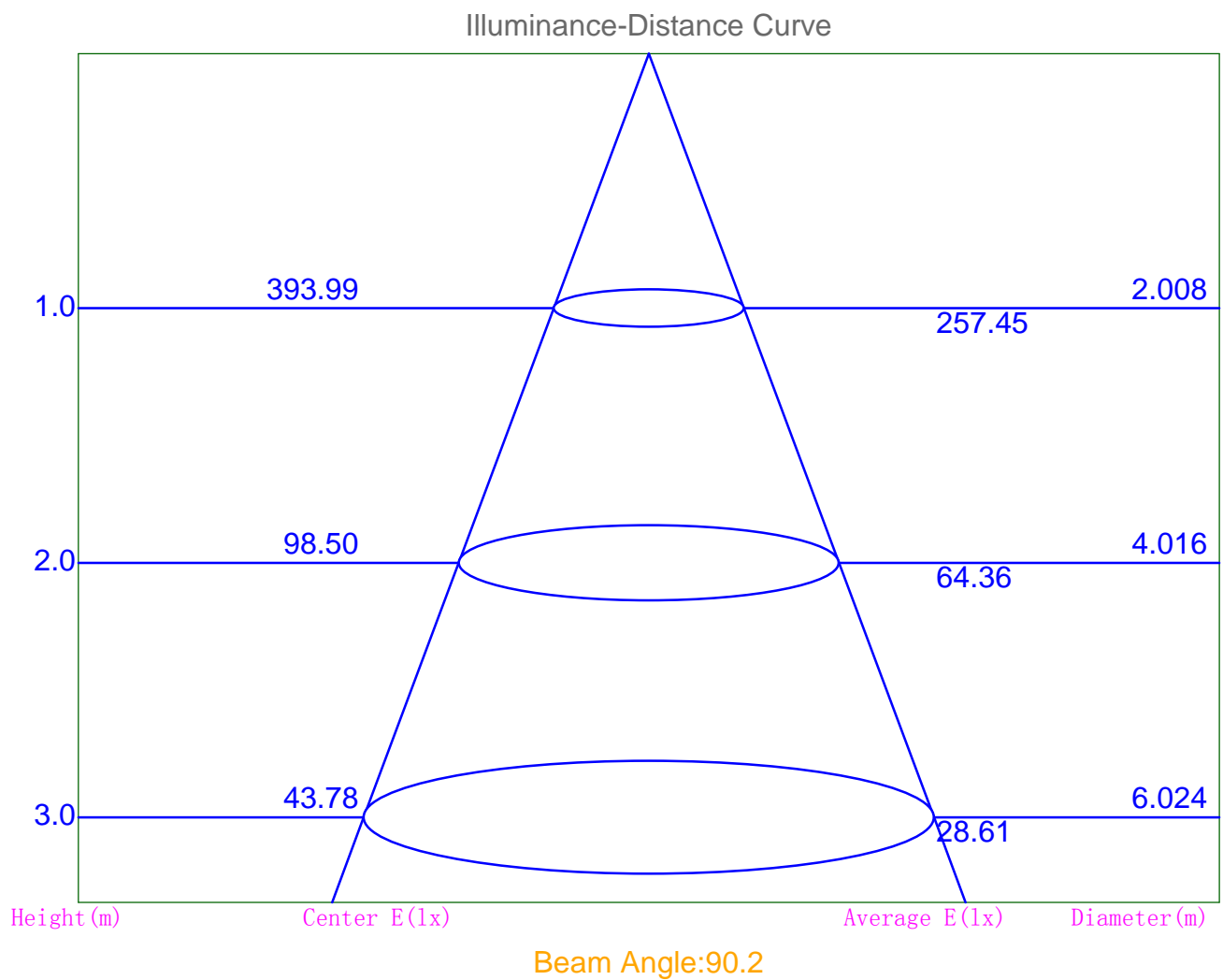
Space Plane Maximum Illuminance and @Angle:393.99,0.0deg
Plane Maximum Lighting Intensity and @Angle:393.987cd,0deg

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Illuminance-Distance Diagram

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



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Indoor Luminance Limiting Curves

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

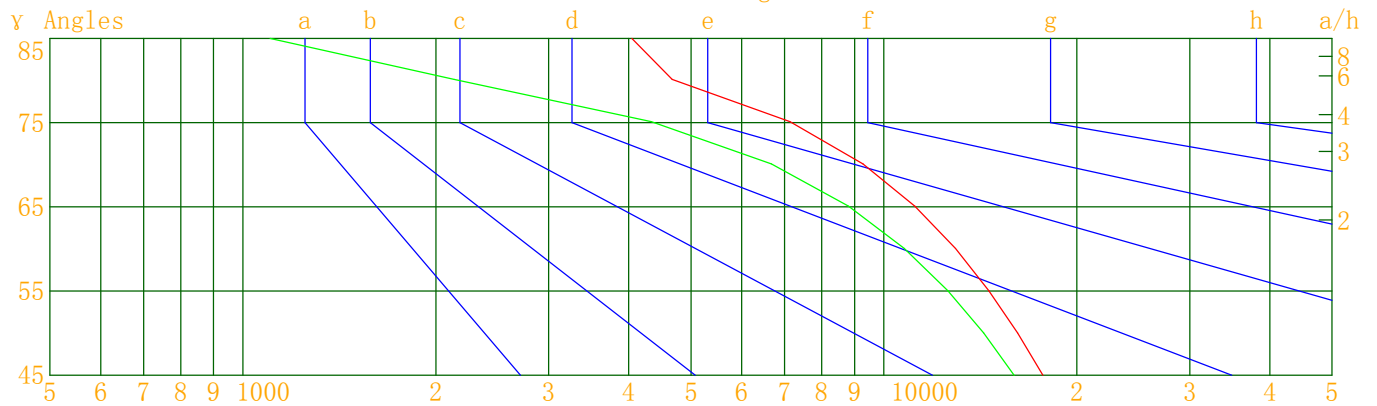
Glare Grade Table

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	17695	16173	14584	12929	11180	9279	7134	4672	4046
C90	15968	14308	12576	10758	8807	6678	4338	2136	1103

Luminance Limiting Curve



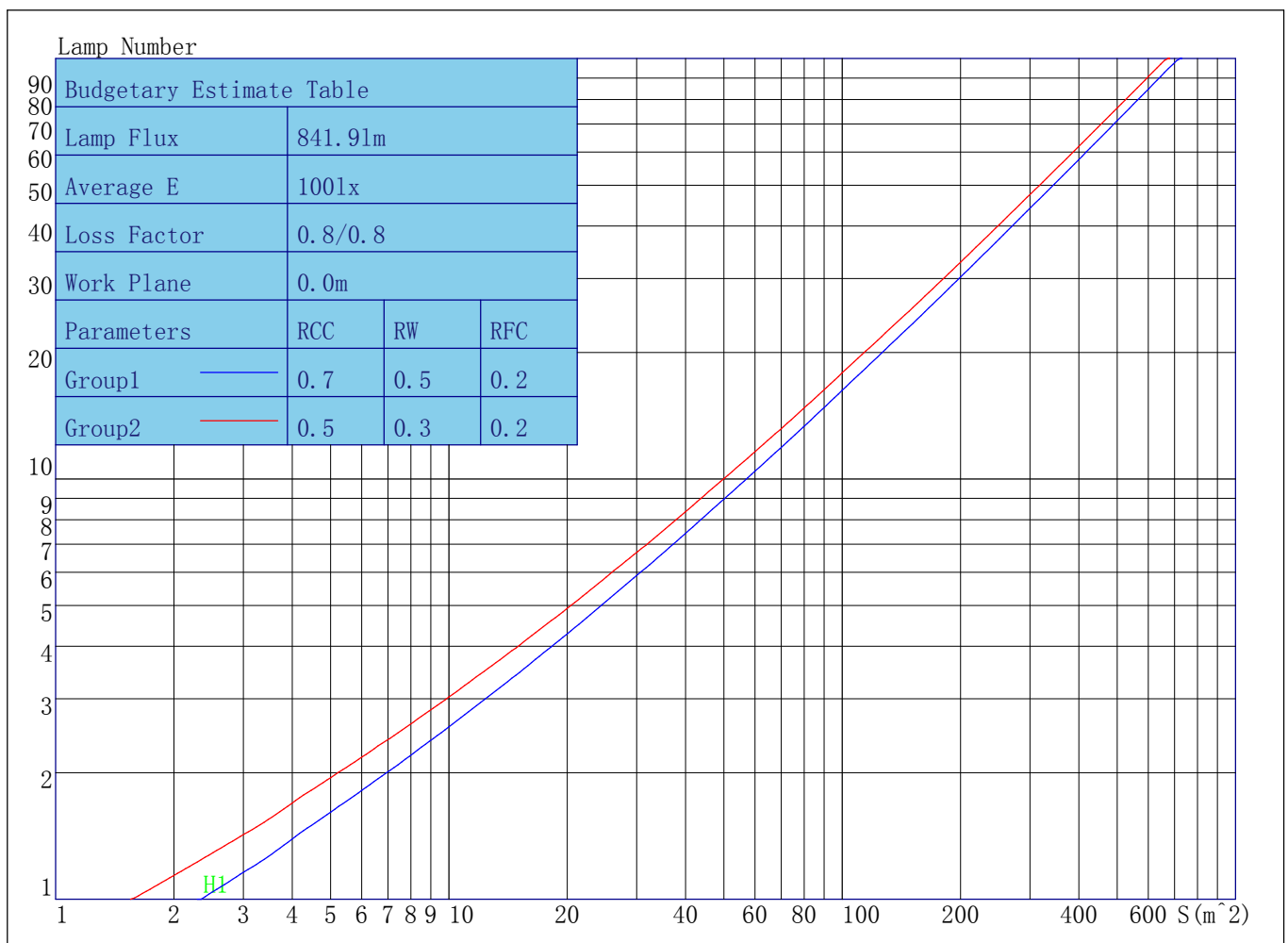
Luminous Size: Length(m)=0.108 Width(m)=0.108 Height(m)=0.042 Area(m^2)=0.016200
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

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Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14



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: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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	110	106	102	99	107	103	100	97	99	96	94	95	93	91	91	89	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	68	76	71	67	73	69	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	66	62	58	56
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	60	55	51	49
6	74	61	53	47	72	60	53	47	58	52	46	57	51	46	55	50	45	43
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

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Unified Glare Rating Table

Lum. Name: ICDLR12WCTA-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 3000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/01/14

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	37.0	40.2	37.8	40.9	41.6	36.1	39.3	37.0	40.0	40.7
Y=3H	39.8	43.0	40.6	43.7	44.4	38.3	41.5	39.2	42.2	42.9
Y=4H	41.5	44.2	42.3	44.9	45.6	39.7	42.4	40.5	43.1	43.8
Y=6H	42.1	44.7	42.9	45.4	46.1	40.0	42.6	40.8	43.3	44.0
Y=8H	42.2	44.8	43.1	45.6	46.2	40.0	42.6	40.8	43.3	44.0
Y=12H	42.3	44.9	43.1	45.6	46.3	39.9	42.5	40.8	43.3	43.9
X=4H Y=2H	37.8	40.5	38.7	41.2	41.9	37.2	39.9	38.0	40.6	41.3
Y=3H	40.8	43.4	41.6	44.2	44.9	39.6	42.2	40.4	43.0	43.7
Y=4H	40.9	42.3	41.9	43.3	44.2	39.3	40.8	40.4	41.7	42.6
Y=6H	41.7	43.0	42.8	44.0	44.9	39.8	41.1	40.8	42.1	43.0
Y=8H	41.9	43.2	43.0	44.2	45.1	39.8	41.1	40.9	42.1	43.0
Y=12H	41.2	42.2	42.4	43.3	44.3	39.0	40.0	40.1	41.1	42.1
X=8H Y=4H	40.9	42.2	42.0	43.2	44.1	39.4	40.7	40.5	41.7	42.6
Y=6H	41.0	41.8	42.1	42.9	43.9	39.1	40.0	40.3	41.1	42.1
Y=8H	40.8	41.4	42.0	42.6	43.7	38.8	39.5	40.0	40.6	41.7
Y=12H	41.0	41.6	42.2	42.8	43.9	38.8	39.5	40.1	40.6	41.7
X=12H Y=4H	40.0	41.0	41.1	42.1	43.1	38.5	39.5	39.7	40.6	41.6
Y=6H	40.4	41.1	41.7	42.3	43.3	38.6	39.3	39.9	40.5	41.5
Y=8H	40.7	41.4	42.0	42.5	43.6	38.8	39.4	40.0	40.6	41.6
Variations with the objver position at spacings										
S=1.0H	3.3/-1.3					3.5/-0.9				
S=1.5H	-1.3/-22.4					-0.5/-20.8				
S=2.0H	-1.3/-22.4					-0.5/-20.8				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	393.99	393.99	393.99	393.99
Y 5.0	393.63	385.76	392.11	389.03
Y 10.0	385.66	375.51	382.57	382.04
Y 15.0	372.04	359.77	367.49	369.51
Y 20.0	353.11	338.98	347.29	351.80
Y 25.0	329.56	313.90	322.70	329.40
Y 30.0	302.24	285.09	294.39	303.29
Y 35.0	271.47	252.50	262.74	273.70
Y 40.0	237.54	217.81	228.01	240.63
Y 45.0	202.70	182.92	192.75	206.32
Y 50.0	168.42	148.99	158.33	172.34
Y 55.0	135.51	116.86	125.61	139.63
Y 60.0	104.73	87.14	95.11	108.91
Y 65.0	76.54	60.30	67.36	80.59
Y 70.0	51.41	37.00	42.98	55.06
Y 75.0	29.91	18.19	22.65	33.00
Y 80.0	13.14	6.01	8.57	14.89
Y 85.0	5.71	1.56	2.97	6.19
Y 90.0	1.73	0.12	0.34	2.10
Y 95.0	1.58	0.35	0.55	1.61
Y 100.0	1.67	0.58	0.70	1.63
Y 105.0	1.72	0.82	1.03	1.65
Y 110.0	1.91	1.14	1.27	1.86
Y 115.0	2.11	1.39	1.60	2.01
Y 120.0	2.30	1.74	1.92	2.21
Y 125.0	2.58	2.03	2.20	2.46
Y 130.0	2.81	2.30	2.58	2.67
Y 135.0	3.05	2.64	2.85	2.97
Y 140.0	3.33	2.88	3.15	3.15
Y 145.0	3.55	3.21	3.46	3.42
Y 150.0	3.83	3.44	3.70	3.60
Y 155.0	4.03	3.70	4.00	3.86
Y 160.0	4.27	3.95	4.21	4.04
Y 165.0	4.50	4.13	4.46	4.28
Y 170.0	4.63	4.37	4.67	4.46
Y 175.0	4.76	4.51	4.83	4.62
Y 180.0	4.76	4.76	4.76	4.76
