

IES Indoor Report

Photometric Filename:ICDLR40W4K-WH-2020-04-01.IES

Indoor Luminaire Photometric Data

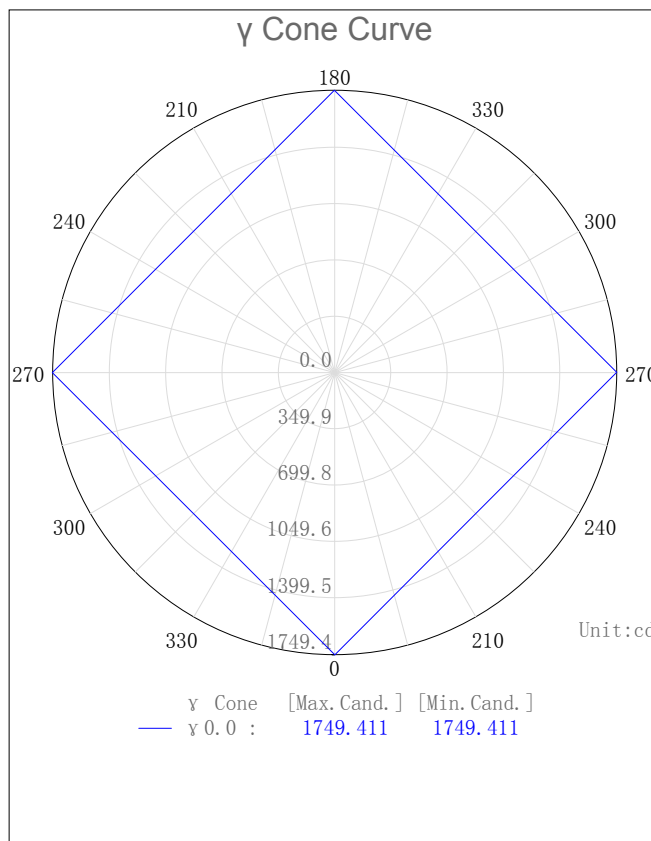
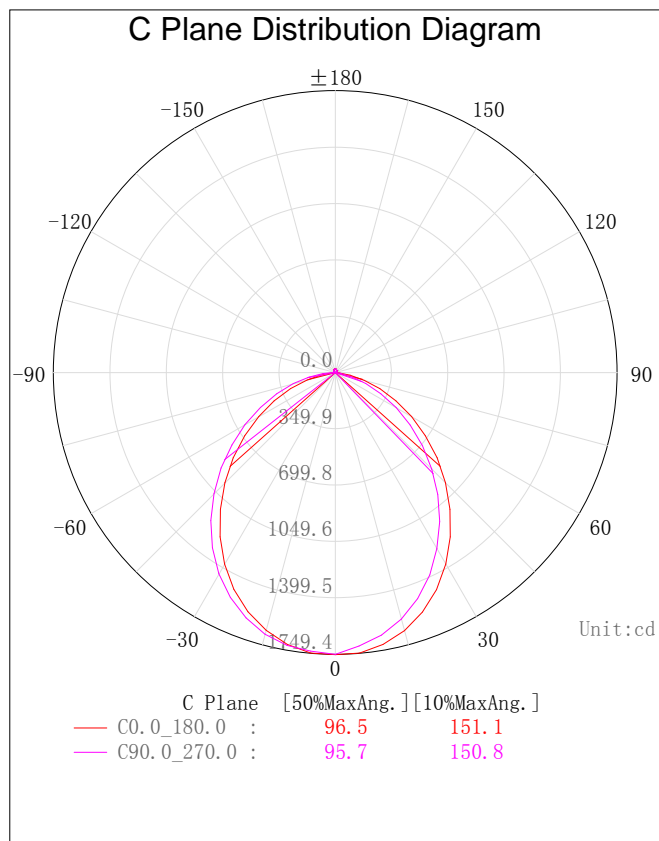
Description Information

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2020/04/01
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.225m*0.225m*0.050m	Lum. Area(m2):0.062	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): 4159.090	Luminaire Flux: 4159.090lm	Field Angle(10%Imax): 151.1	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 4088.240lm 98.30%	
Rated Voltage(V):	Luminaire EER(lm/W): 101.814	Up Lumens&Percent: 70.850lm 1.70%	
Tested Power(W): 40.850	Max. Cand. (cd): 1749.411	S/MH: C0_a180=1.174 C90_270=1.160	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=242.3V, I=0.176A, PF=0.000	Beam Angle(50%Imax): 96.5	ErP Φuse(120°): 3380.376lm	
Lamp Size(W*L*H):0.225m*0.225m*0.050m	Left=-48.2 Right=48.2	IRF: 123.755%	

Lighting Distribution Diagram



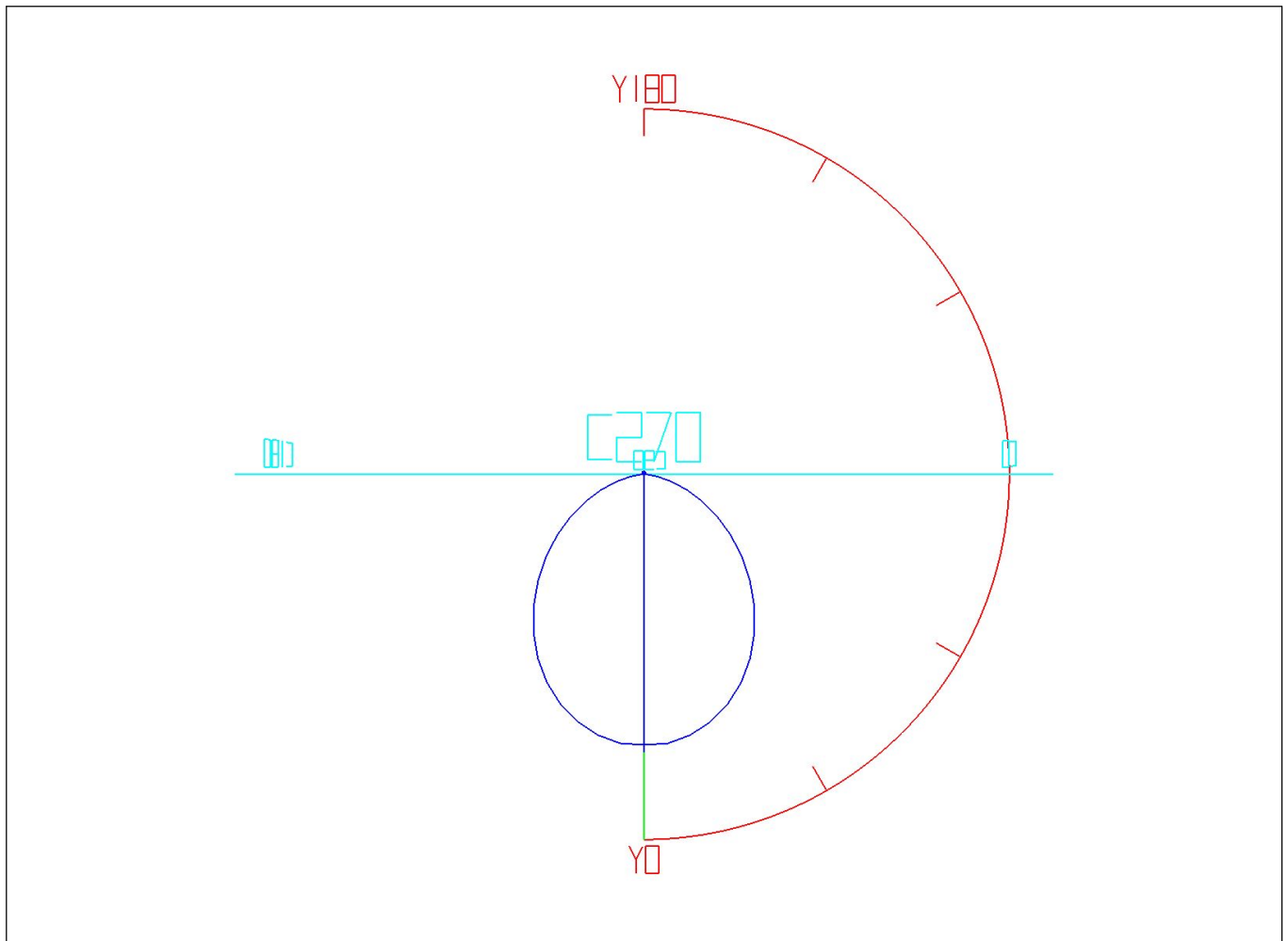
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3D Light Intensity Distribution Modal

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

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

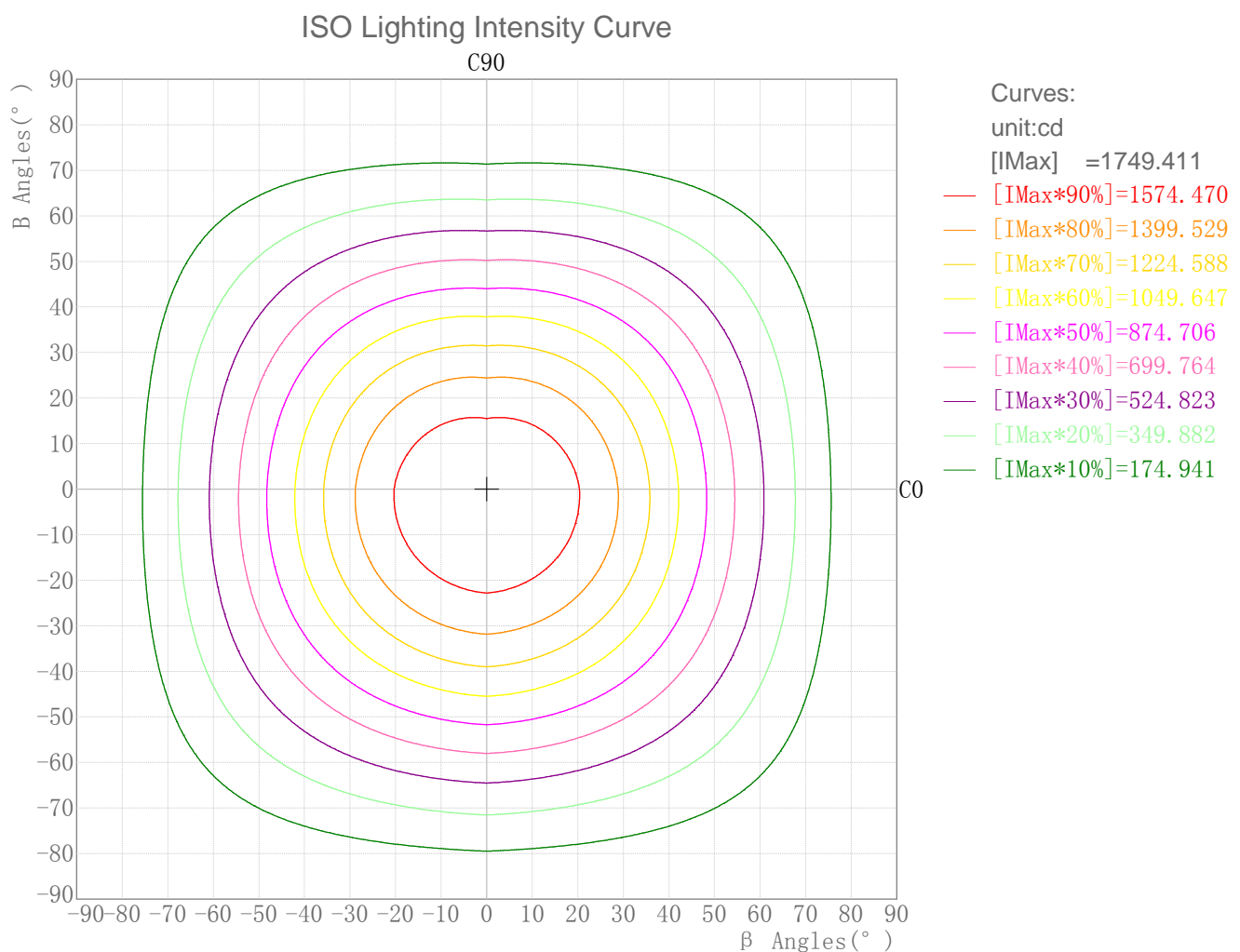
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	41.63	41.63	1.00	1.00
5.0-10.0	122.81	164.44	2.95	3.95
10.0-15.0	198.38	362.82	4.77	8.72
15.0-20.0	264.80	627.63	6.37	15.09
20.0-25.0	319.17	946.80	7.67	22.76
25.0-30.0	359.05	1305.84	8.63	31.40
30.0-35.0	382.80	1688.64	9.20	40.60
35.0-40.0	390.10	2078.74	9.38	49.98
40.0-45.0	381.85	2460.60	9.18	59.16
45.0-50.0	359.78	2820.38	8.65	67.81
50.0-55.0	325.99	3146.37	7.84	75.65
55.0-60.0	282.85	3429.21	6.80	82.45
60.0-65.0	232.99	3662.21	5.60	88.05
65.0-70.0	179.33	3841.54	4.31	92.36
70.0-75.0	125.42	3966.95	3.02	95.38
75.0-80.0	75.33	4042.28	1.81	97.19
80.0-85.0	34.83	4077.11	0.84	98.03
85.0-90.0	11.13	4088.24	0.27	98.30
90.0-95.0	3.62	4091.86	0.09	98.38
95.0-100.0	3.02	4094.88	0.07	98.46
100.0-105.0	3.42	4098.31	0.08	98.54
105.0-110.0	3.88	4102.18	0.09	98.63
110.0-115.0	4.33	4106.51	0.10	98.74
115.0-120.0	4.74	4111.26	0.11	98.85
120.0-125.0	5.08	4116.33	0.12	98.97
125.0-130.0	5.32	4121.65	0.13	99.10
130.0-135.0	5.43	4127.08	0.13	99.23
135.0-140.0	5.41	4132.49	0.13	99.36
140.0-145.0	5.26	4137.75	0.13	99.49
145.0-150.0	4.97	4142.72	0.12	99.61
150.0-155.0	4.54	4147.26	0.11	99.72
155.0-160.0	3.98	4151.24	0.10	99.81
160.0-165.0	3.29	4154.54	0.08	99.89
165.0-170.0	2.48	4157.02	0.06	99.95
170.0-175.0	1.55	4158.56	0.04	99.99
175.0-180.0	0.53	4159.09	0.01	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01



Maximum Light Intensity(cd): 1749.41

Maximum Cand.@Angle: H=0.0°,V=0.0°

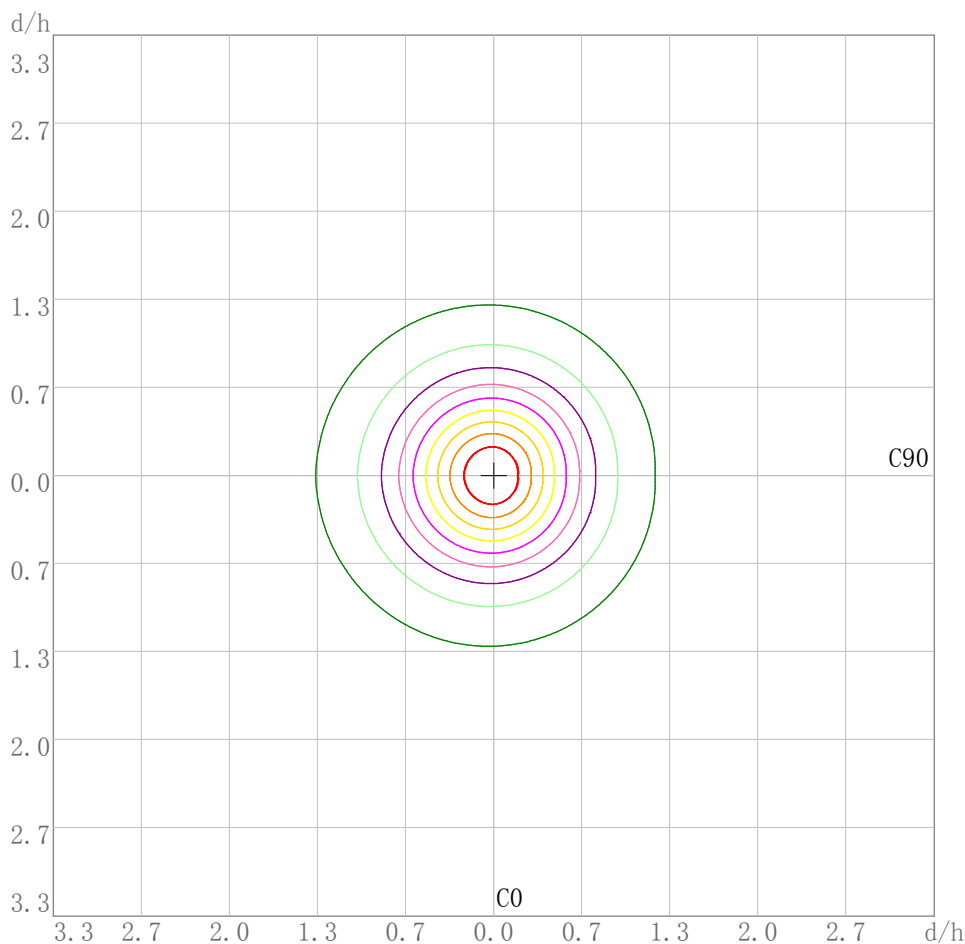
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Plane ISO-Illuminance Diagram

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

Plane ISO-Illuminance Curve



- Curves:
unit:lx
- [EMax] =194.379
 - [EMax*90%]=174.941
 - [EMax*80%]=155.503
 - [EMax*70%]=136.065
 - [EMax*60%]=116.627
 - [EMax*50%]=97.190
 - [EMax*40%]=77.752
 - [EMax*30%]=58.314
 - [EMax*20%]=38.876
 - [EMax*10%]=19.438

Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 194.38
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

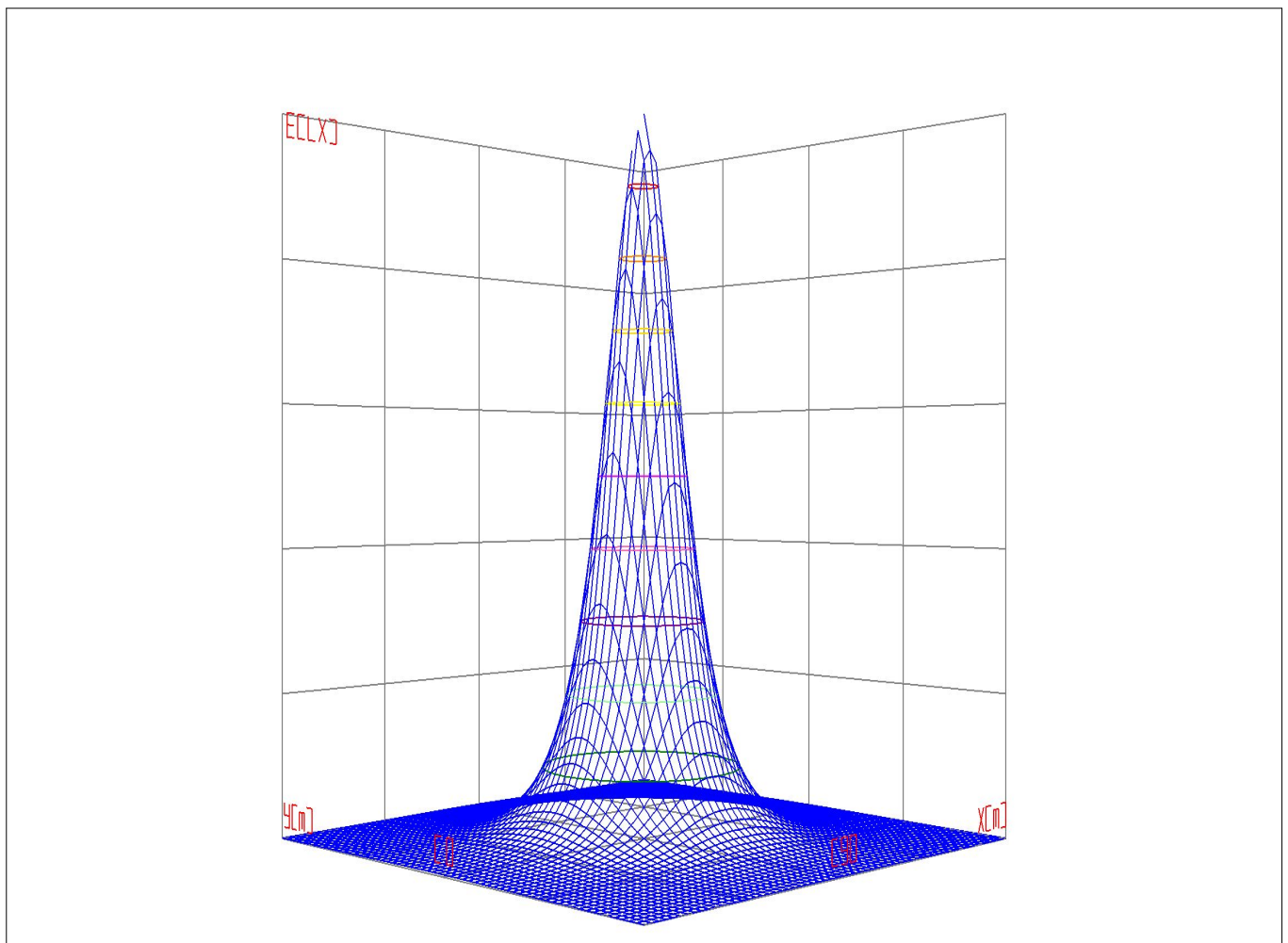
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3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

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

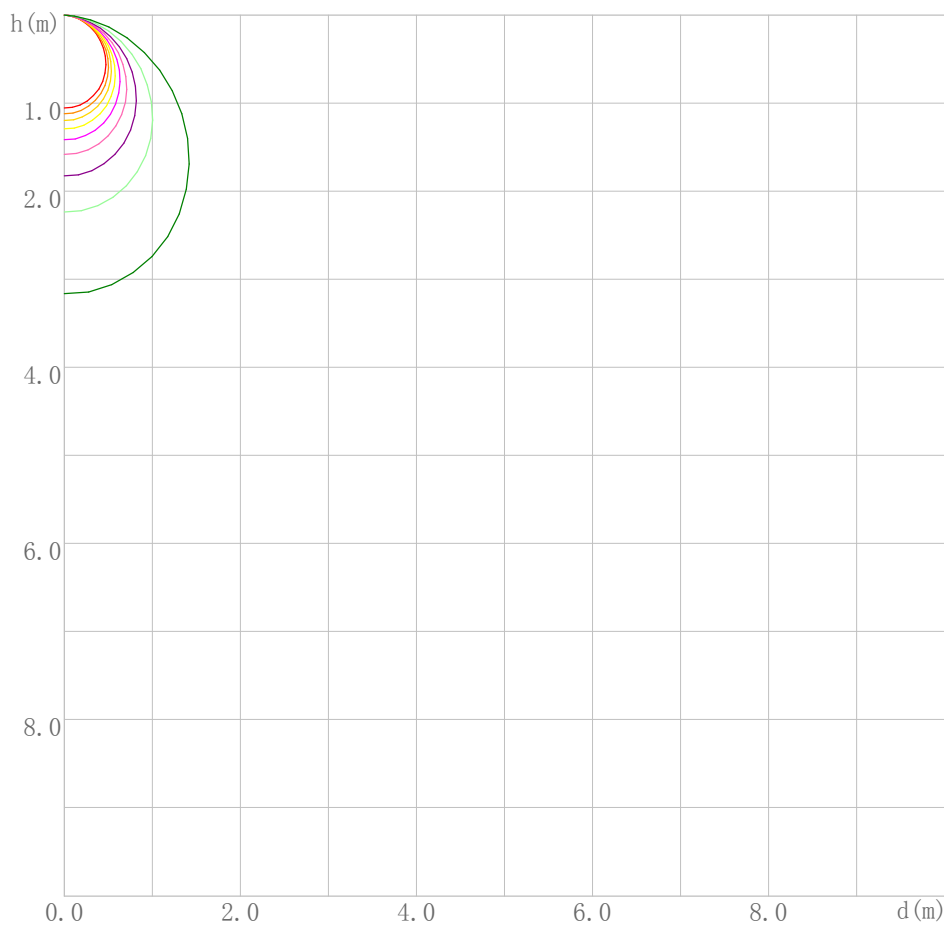
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Space ISO Illuminance Diagram

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

Space ISO Illuminance Curve



- Curves:
unit:lx
[EMax] =1749.411
- [EMax*90%]=1574.470
 - [EMax*80%]=1399.529
 - [EMax*70%]=1224.588
 - [EMax*60%]=1049.647
 - [EMax*50%]=874.706
 - [EMax*40%]=699.764
 - [EMax*30%]=524.823
 - [EMax*20%]=349.882
 - [EMax*10%]=174.941

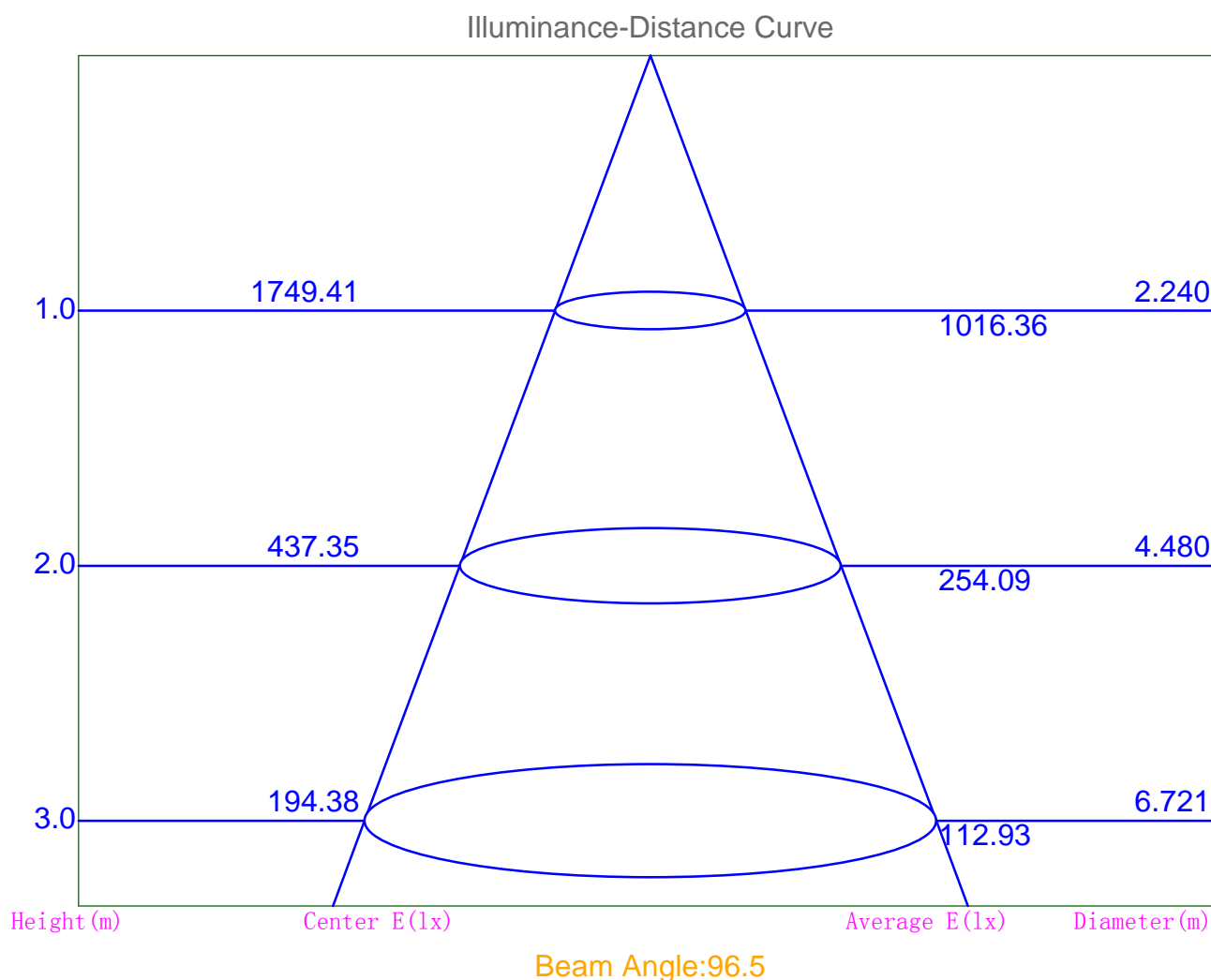
Space Plane Maximum Illuminance and @Angle:1749.41,0.0deg
Plane Maximum Lighting Intensity and @Angle:1749.411cd,0deg

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Illuminance-Distance Diagram

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01



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Indoor Luminance Limiting Curves

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

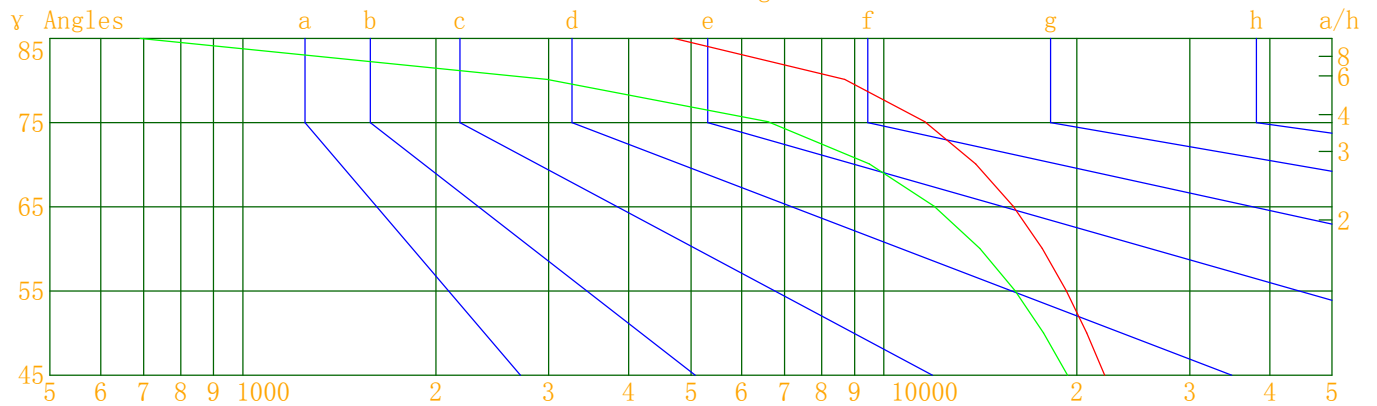
Glare Grade Table

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	22107	20732	19256	17666	15905	13902	11577	8684	4707
C90	19351	17748	16020	14119	11970	9497	6590	2981	691

Luminance Limiting Curve



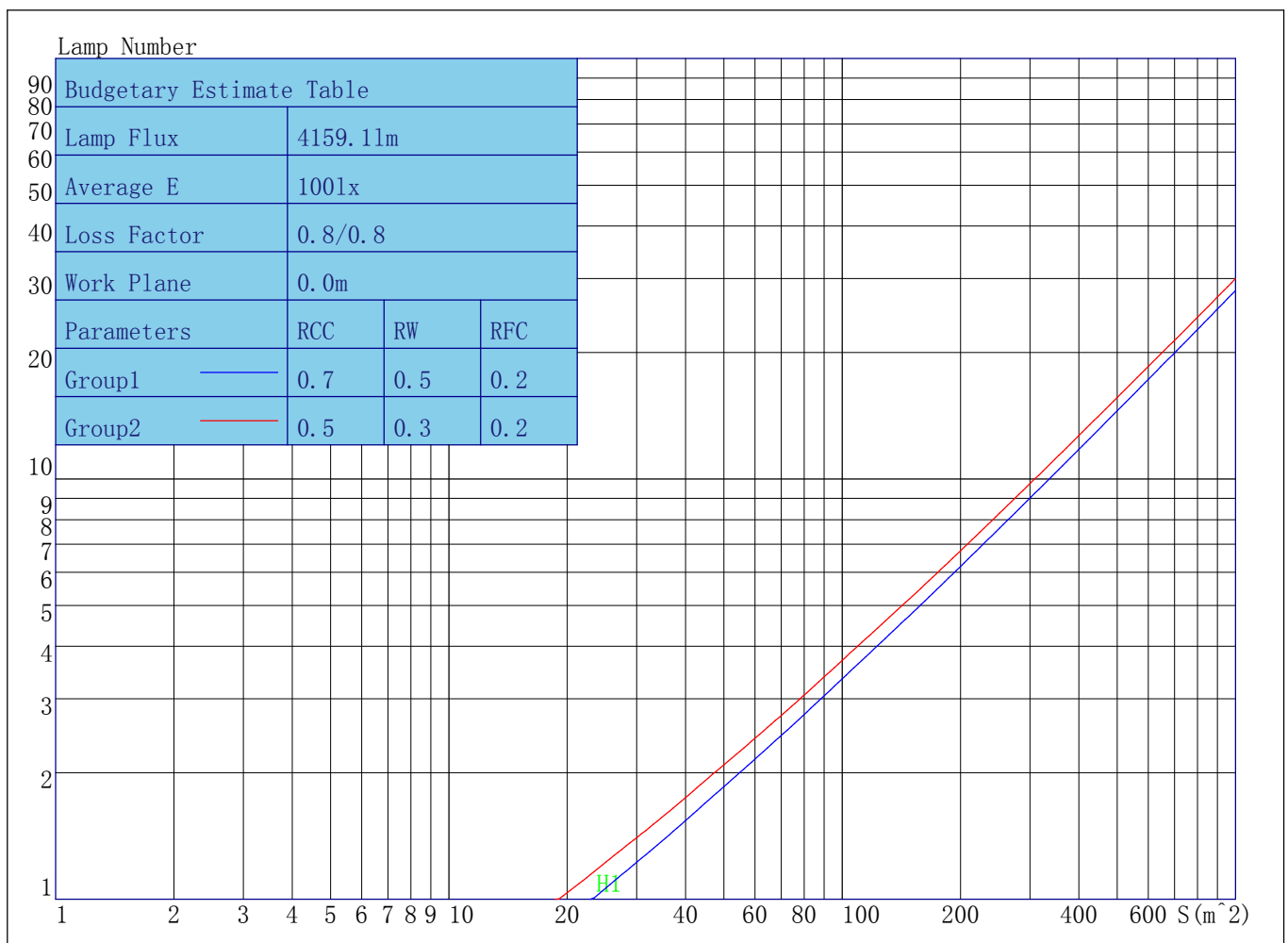
Luminous Size: Length(m)=0.225 Width(m)=0.225 Height(m)=0.050 Area(m²)=0.061875
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01



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: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

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	98	106	103	99	96	98	95	92	94	91	89	90	88	86	84
2	100	92	86	81	97	90	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	72	64	58	69	62	57	66	61	56	64	59	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	51	45	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	46	40	65	53	45	40	51	44	39	50	44	39	48	43	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	36	31	30
10	55	42	34	29	54	42	34	29	40	34	29	39	33	29	38	33	29	27

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Unified Glare Rating Table

Lum. Name: ICDLR40W-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/04/01

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	26.0	29.4	26.9	30.1	30.8	24.9	28.3	25.8	29.0	29.7
Y=3H	29.4	32.8	30.2	33.5	34.2	27.6	30.9	28.4	31.7	32.4
Y=4H	31.5	34.4	32.3	35.1	35.8	29.2	32.0	30.0	32.8	33.5
Y=6H	32.4	35.2	33.3	36.0	36.7	29.6	32.3	30.4	33.1	33.8
Y=8H	32.7	35.4	33.5	36.2	36.9	29.6	32.3	30.4	33.1	33.8
Y=12H	32.8	35.5	33.6	36.2	36.9	29.5	32.3	30.3	33.0	33.7
X=4H Y=2H	27.0	29.9	27.8	30.6	31.3	26.2	29.1	27.0	29.8	30.5
Y=3H	30.5	33.4	31.4	34.1	34.8	29.1	31.9	29.9	32.7	33.4
Y=4H	31.1	32.7	32.1	33.7	34.6	29.1	30.7	30.2	31.7	32.6
Y=6H	32.3	33.8	33.4	34.7	35.6	29.8	31.2	30.8	32.2	33.1
Y=8H	32.7	34.1	33.8	35.0	35.9	29.8	31.2	30.9	32.2	33.1
Y=12H	32.0	33.1	33.1	34.2	35.2	29.0	30.1	30.1	31.2	32.2
X=8H Y=4H	31.2	32.6	32.3	33.6	34.5	29.4	30.8	30.4	31.7	32.6
Y=6H	31.7	32.6	32.9	33.7	34.7	29.3	30.2	30.4	31.3	32.3
Y=8H	31.7	32.4	32.9	33.6	34.6	29.0	29.7	30.2	30.9	31.9
Y=12H	31.9	32.6	33.1	33.7	34.8	29.0	29.7	30.2	30.8	31.9
X=12H Y=4H	30.3	31.4	31.5	32.5	33.5	28.5	29.6	29.6	30.7	31.7
Y=6H	31.2	32.0	32.4	33.1	34.2	28.8	29.5	30.0	30.7	31.7
Y=8H	31.6	32.3	32.9	33.5	34.5	29.0	29.6	30.2	30.8	31.9
Variations with the objver position at spacings										
S=1.0H	3.1/-1.4					3.2/-0.5				
S=1.5H	-1.4/-21.5					-0.3/-19.5				
S=2.0H	-1.4/-21.5					-0.3/-19.5				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	1749.41	1749.41	1749.41	1749.41
Y 5.0	1747.27	1703.39	1746.84	1735.02
Y 10.0	1713.35	1653.74	1712.80	1719.55
Y 15.0	1657.59	1583.01	1656.79	1680.25
Y 20.0	1581.24	1493.26	1580.46	1619.78
Y 25.0	1486.43	1386.37	1485.41	1539.64
Y 30.0	1373.36	1262.87	1372.82	1441.74
Y 35.0	1245.73	1128.84	1245.44	1327.27
Y 40.0	1108.86	988.66	1108.57	1199.23
Y 45.0	967.21	846.67	966.99	1063.08
Y 50.0	824.58	705.87	824.65	923.11
Y 55.0	683.40	568.56	683.86	782.94
Y 60.0	546.53	436.82	547.18	645.42
Y 65.0	415.90	313.02	416.34	512.43
Y 70.0	294.21	200.98	294.21	385.90
Y 75.0	185.40	105.54	184.59	268.47
Y 80.0	93.31	32.03	92.57	164.19
Y 85.0	25.38	3.73	24.17	77.30
Y 90.0	5.73	3.45	3.60	19.26
Y 95.0	5.84	4.48	4.32	6.24
Y 100.0	6.46	5.58	5.21	6.36
Y 105.0	7.38	6.87	6.38	6.95
Y 110.0	8.36	8.11	7.59	7.70
Y 115.0	9.55	9.42	8.93	8.71
Y 120.0	10.69	10.71	10.23	9.81
Y 125.0	11.91	11.97	11.58	10.92
Y 130.0	13.13	13.25	12.91	12.12
Y 135.0	14.27	14.43	14.15	13.21
Y 140.0	15.47	15.64	15.45	14.30
Y 145.0	16.58	16.72	16.60	15.38
Y 150.0	17.68	17.75	17.77	16.40
Y 155.0	18.79	18.81	18.88	17.55
Y 160.0	19.74	19.68	19.90	18.61
Y 165.0	20.73	20.57	20.93	19.72
Y 170.0	21.48	21.27	21.69	20.70
Y 175.0	22.02	21.81	22.26	21.57
Y 180.0	22.27	22.27	22.27	22.27
