

IES Indoor Report

Photometric Filename:LGDLR15WCCT-WH 4K.IES

Indoor Luminaire Photometric Data

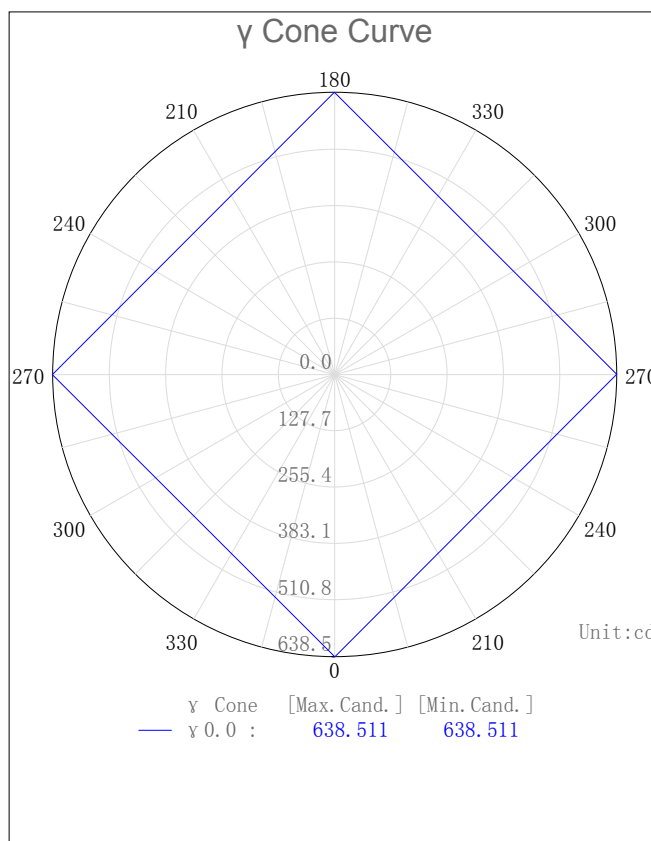
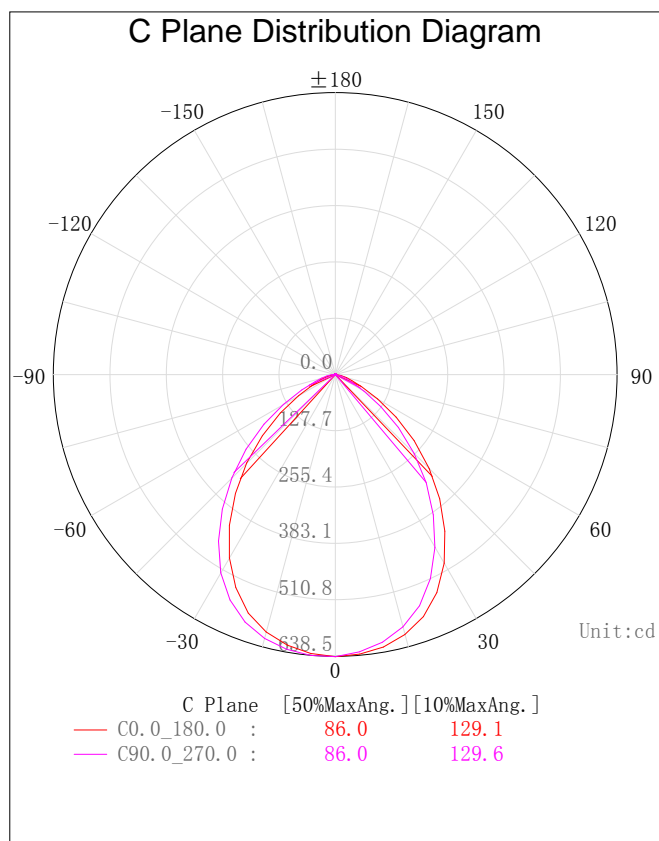
Description Information

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2019/08/10
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.130m*0.130m*0.068m	Lum. Area(m2):0.026	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): 1208.670	Luminaire Flux: 1208.666lm	Field Angle(10%Imax): 129.1
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1207.928lm 99.94%
Rated Voltage(V):	Luminaire EER(lm/W): 82.899	Up Lumens&Percent: 0.738lm 0.06%
Tested Power(W): 14.580	Max. Cand. (cd): 638.511	S/MH: C0_a180=1.145 C90_270=1.145
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electric:U=238.0V, I=0.064A, PF=0.000	Beam Angle(50%Imax): 86.0	ErP Φuse(90°): 851.681lm
Lamp Size(W*L*H):0.130m*0.130m*0.068m	Left=-42.3 Right=43.6	IRF: 133.547%

Lighting Distribution Diagram



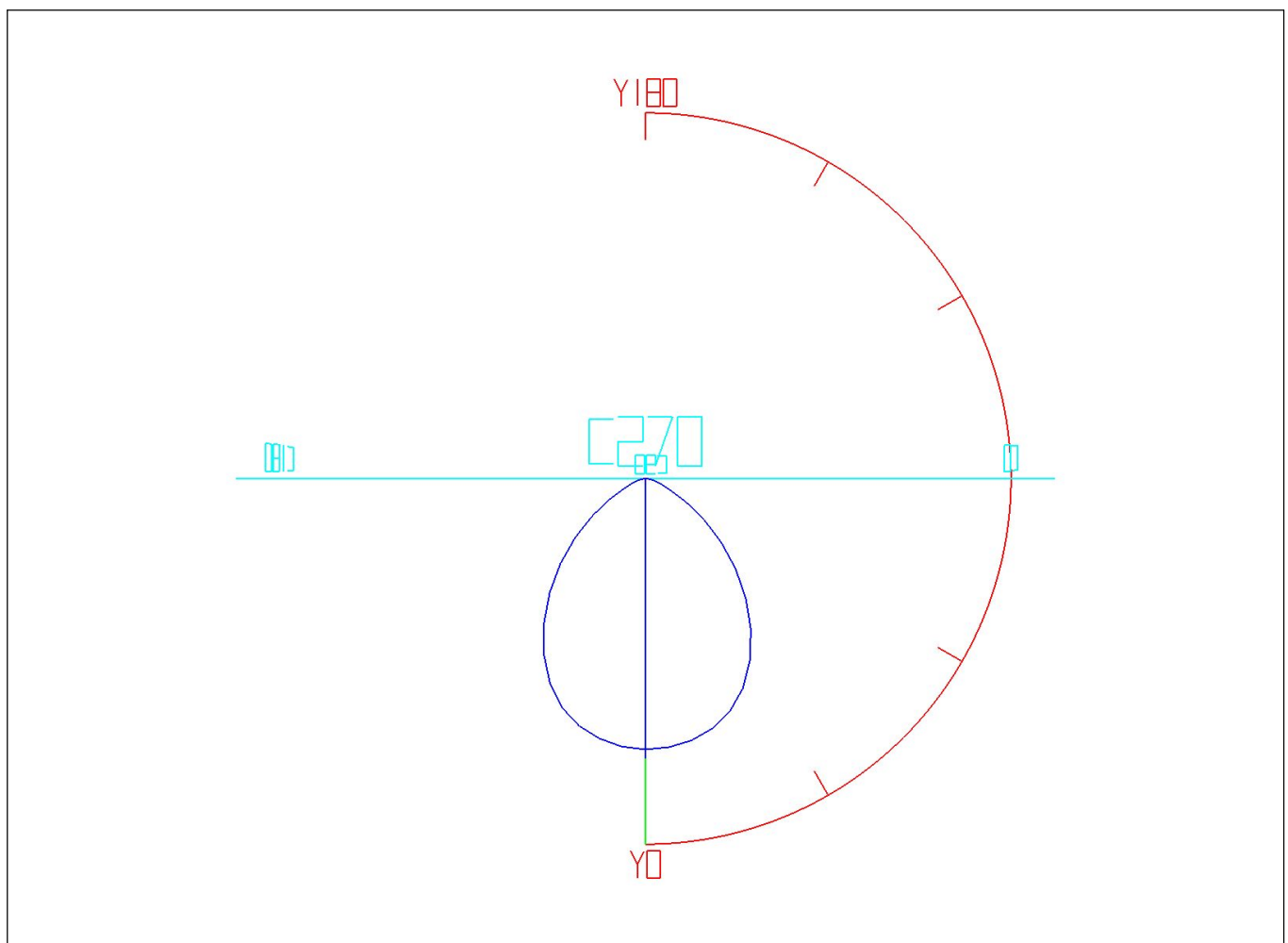
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3D Light Intensity Distribution Modal

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

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

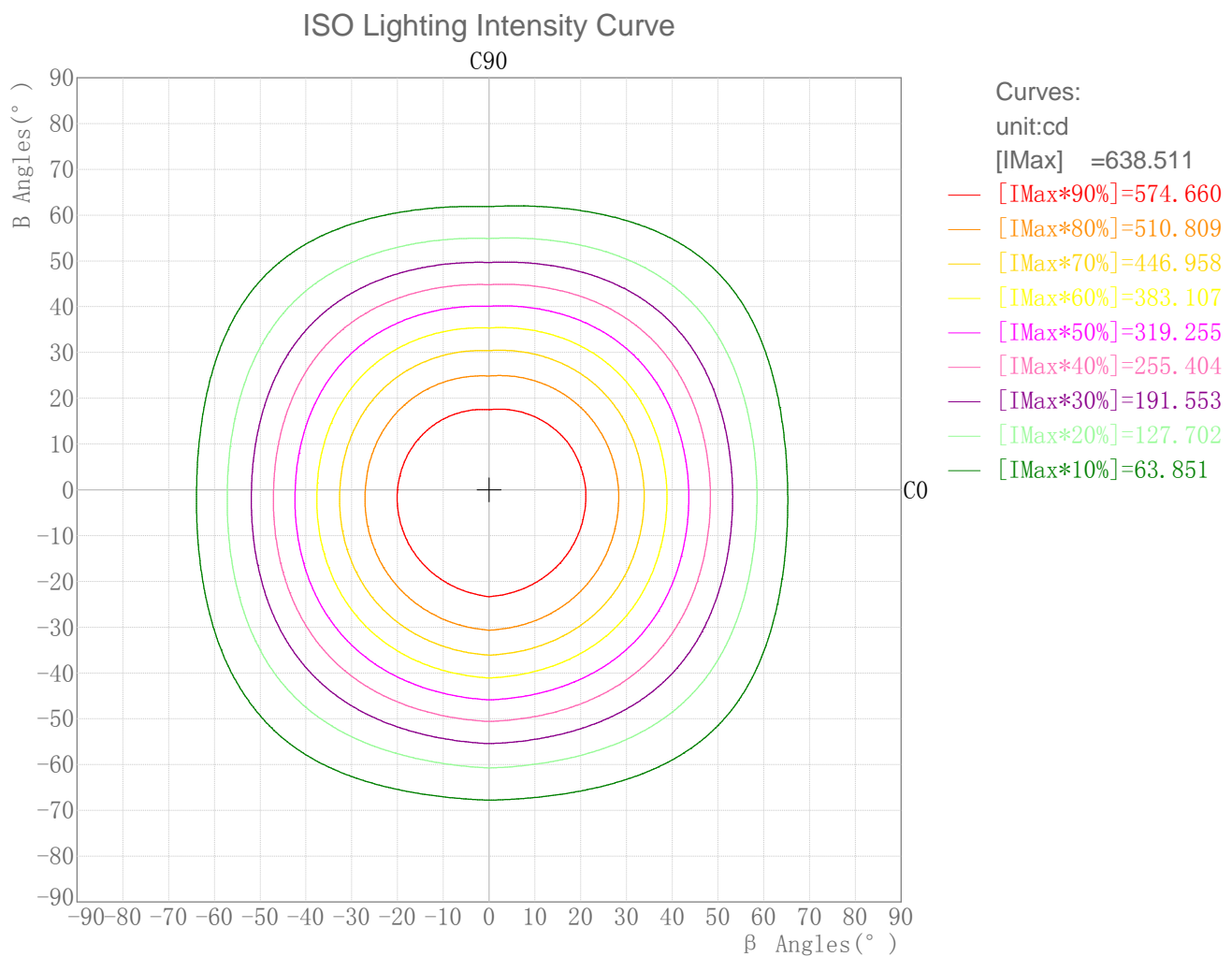
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	15.22	15.22	1.26	1.26
5.0-10.0	45.03	60.26	3.73	4.99
10.0-15.0	72.98	133.23	6.04	11.02
15.0-20.0	97.58	230.81	8.07	19.10
20.0-25.0	117.00	347.81	9.68	28.78
25.0-30.0	129.47	477.28	10.71	39.49
30.0-35.0	134.05	611.33	11.09	50.58
35.0-40.0	130.81	742.14	10.82	61.40
40.0-45.0	120.56	862.70	9.97	71.38
45.0-50.0	104.37	967.07	8.64	80.01
50.0-55.0	83.82	1050.89	6.93	86.95
55.0-60.0	61.32	1112.20	5.07	92.02
60.0-65.0	40.37	1152.57	3.34	95.36
65.0-70.0	25.19	1177.77	2.08	97.44
70.0-75.0	16.07	1193.83	1.33	98.77
75.0-80.0	9.39	1203.23	0.78	99.55
80.0-85.0	3.92	1207.15	0.32	99.87
85.0-90.0	0.78	1207.93	0.06	99.94
90.0-95.0	0.00	1207.93	0.00	99.94
95.0-100.0	0.00	1207.93	0.00	99.94
100.0-105.0	0.00	1207.93	0.00	99.94
105.0-110.0	0.00	1207.93	0.00	99.94
110.0-115.0	0.00	1207.93	0.00	99.94
115.0-120.0	0.00	1207.93	0.00	99.94
120.0-125.0	0.00	1207.93	0.00	99.94
125.0-130.0	0.00	1207.93	0.00	99.94
130.0-135.0	0.00	1207.93	0.00	99.94
135.0-140.0	0.00	1207.93	0.00	99.94
140.0-145.0	0.00	1207.93	0.00	99.94
145.0-150.0	0.02	1207.94	0.00	99.94
150.0-155.0	0.08	1208.02	0.01	99.95
155.0-160.0	0.14	1208.16	0.01	99.96
160.0-165.0	0.17	1208.33	0.01	99.97
165.0-170.0	0.17	1208.50	0.01	99.99
170.0-175.0	0.12	1208.62	0.01	100.00
175.0-180.0	0.05	1208.67	0.00	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10



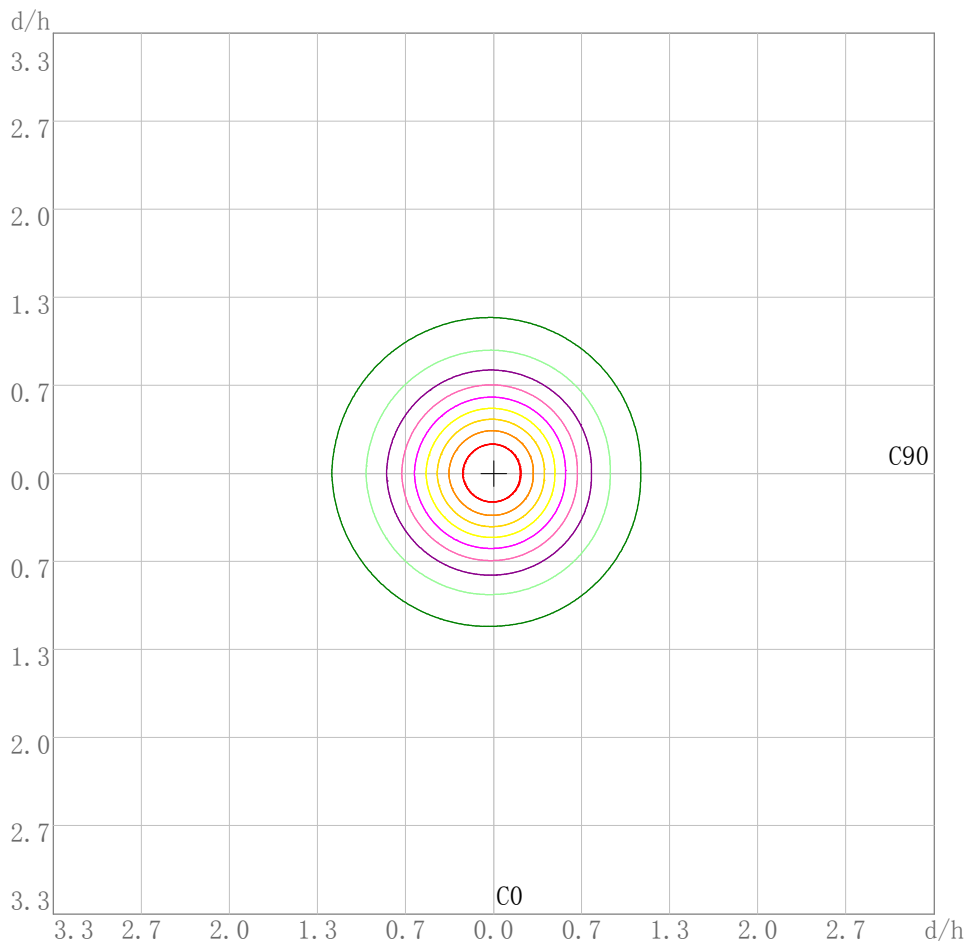
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Plane ISO-Illuminance Diagram

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

Plane ISO-Illuminance Curve



- Curves:
unit:lx
[EMax] =70.946
- [EMax*90%]=63.851
 - [EMax*80%]=56.757
 - [EMax*70%]=49.662
 - [EMax*60%]=42.567
 - [EMax*50%]=35.473
 - [EMax*40%]=28.378
 - [EMax*30%]=21.284
 - [EMax*20%]=14.189
 - [EMax*10%]=7.095

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 70.95
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

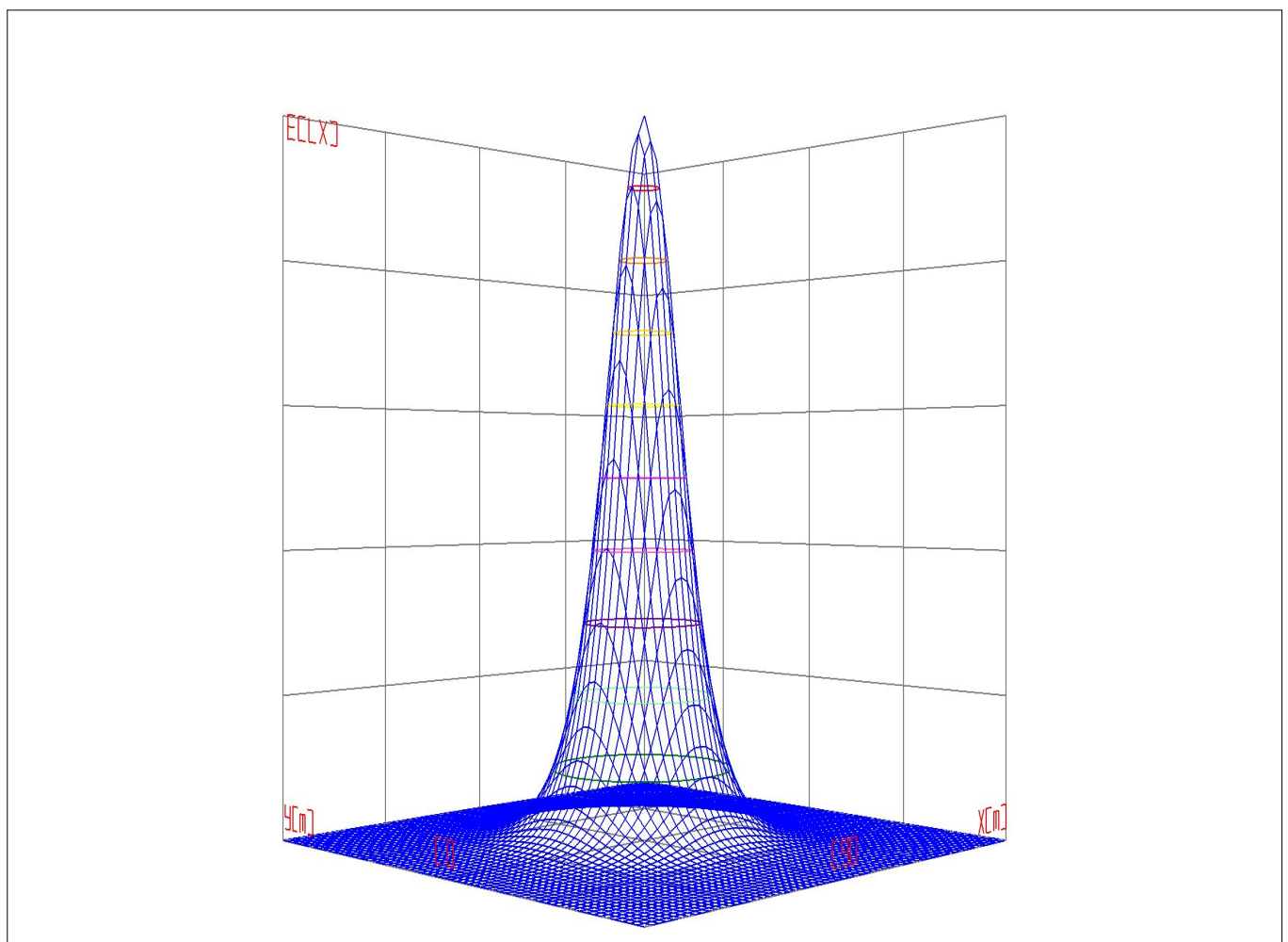
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3D Plane ISO Illuminance Diagram

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

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

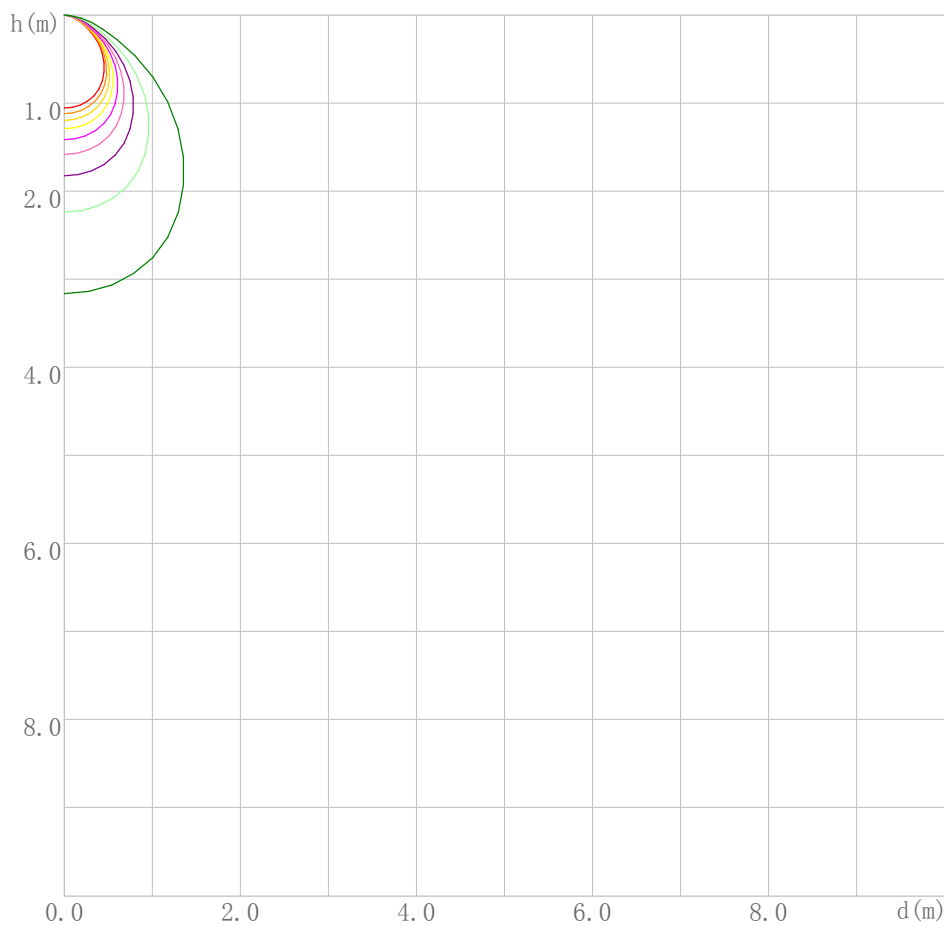
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Space ISO Illuminance Diagram

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

Space ISO Illuminance Curve



- Curves:
unit:lx
[EMax] =638.511
- [EMax*90%]=574.660
 - [EMax*80%]=510.809
 - [EMax*70%]=446.958
 - [EMax*60%]=383.107
 - [EMax*50%]=319.255
 - [EMax*40%]=255.404
 - [EMax*30%]=191.553
 - [EMax*20%]=127.702
 - [EMax*10%]=63.851

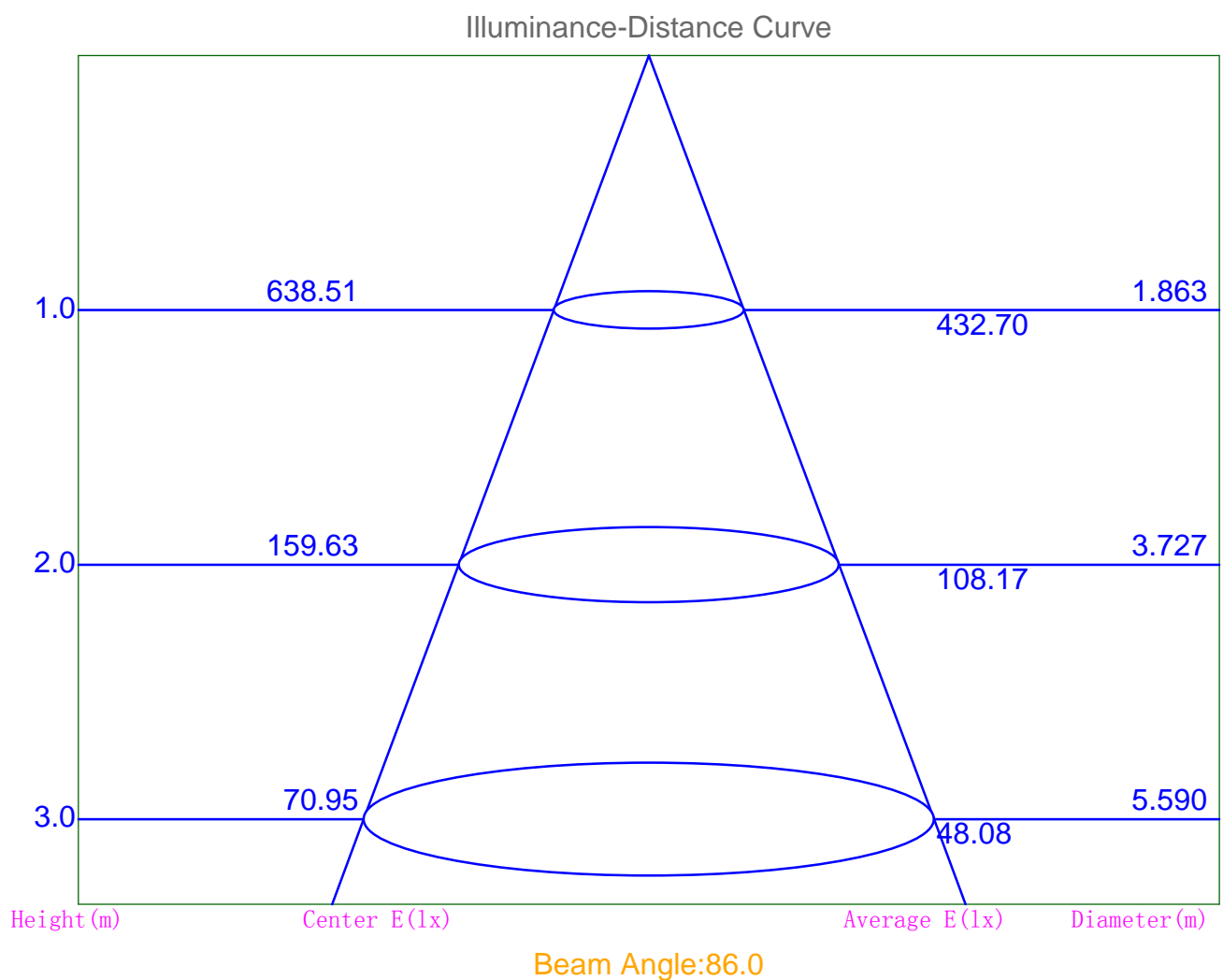
Space Plane Maximum Illuminance and @Angle:638.51,0.0deg
Plane Maximum Lighting Intensity and @Angle:638.511cd,0deg

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Illuminance-Distance Diagram

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10



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Indoor Luminance Limiting Curves

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

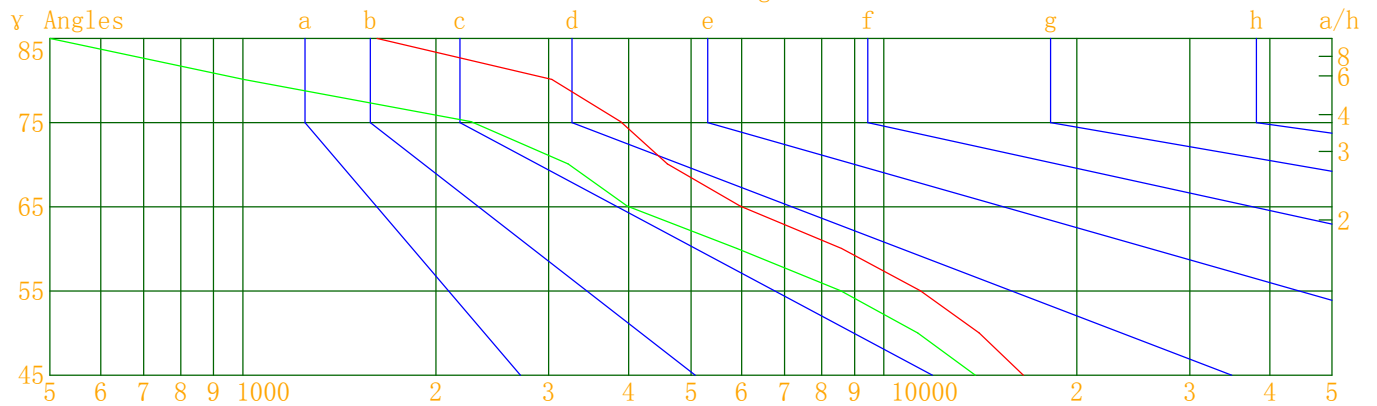
Glare Grade Table

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	16507	14079	11392	8589	5972	4595	3886	3033	1619
C90	13889	11298	8562	5894	3980	3216	2270	1003	0

Luminance Limiting Curve



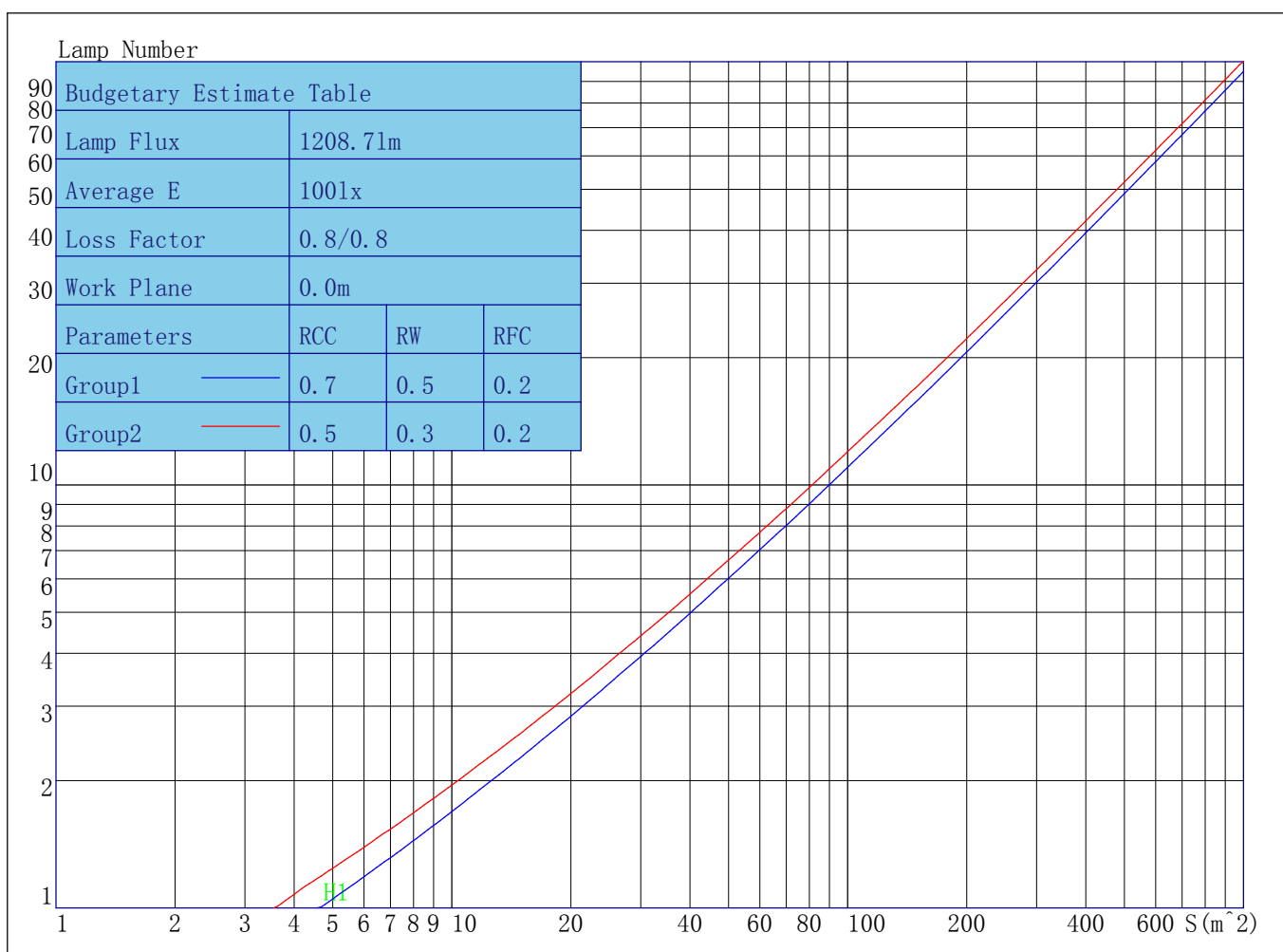
Luminous Size: Length(m)=0.130 Width(m)=0.130 Height(m)=0.068 Area(m²)=0.025740
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10



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: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

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	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54
6	77	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48
7	71	59	52	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33

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Unified Glare Rating Table

Lum. Name: LGDLR15WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/10

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	31.7	34.6	32.4	35.2	35.8	30.3	33.2	31.0	33.8	34.4
Y=3H	32.9	35.8	33.6	36.4	37.0	31.1	34.0	31.8	34.6	35.2
Y=4H	34.1	36.5	34.8	37.2	37.7	32.1	34.5	32.8	35.1	35.7
Y=6H	34.5	36.9	35.2	37.5	38.1	32.2	34.6	32.9	35.2	35.8
Y=8H	34.6	36.9	35.3	37.5	38.1	32.1	34.5	32.9	35.1	35.7
Y=12H	34.6	36.9	35.3	37.5	38.1	32.1	34.4	32.8	35.0	35.6
X=4H Y=2H	32.2	34.6	32.9	35.2	35.8	30.9	33.3	31.6	33.9	34.5
Y=3H	33.5	35.9	34.2	36.5	37.1	31.8	34.3	32.6	34.9	35.5
Y=4H	33.0	34.2	33.9	35.1	35.9	31.1	32.4	32.1	33.2	34.0
Y=6H	33.5	34.7	34.5	35.6	36.3	31.4	32.5	32.3	33.4	34.2
Y=8H	33.7	34.8	34.6	35.7	36.5	31.4	32.5	32.3	33.4	34.1
Y=12H	32.9	33.8	33.9	34.7	35.6	30.4	31.3	31.5	32.3	33.2
X=8H Y=4H	32.9	34.1	33.9	34.9	35.7	31.1	32.3	32.1	33.1	33.9
Y=6H	32.7	33.5	33.7	34.4	35.3	30.6	31.4	31.6	32.3	33.2
Y=8H	32.4	33.0	33.5	34.1	35.0	30.1	30.8	31.2	31.8	32.7
Y=12H	32.4	33.1	33.6	34.1	35.0	30.1	30.7	31.2	31.7	32.7
X=12H Y=4H	32.0	32.9	33.0	33.8	34.7	30.2	31.1	31.2	32.1	32.9
Y=6H	32.1	32.8	33.2	33.8	34.7	30.0	30.7	31.1	31.7	32.6
Y=8H	32.3	32.9	33.4	34.0	34.9	30.1	30.7	31.2	31.7	32.6
Variations with the objver position at spacings										
S=1.0H	4.7/-3.0					4.9/-2.5				
S=1.5H	-2.1/-27.4					-0.7/-25.5				
S=2.0H	-2.1/-27.4					-0.7/-25.5				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	638.51	638.51	638.51	638.51
Y 5.0	635.72	630.55	634.37	638.19
Y 10.0	626.71	615.64	622.36	632.05
Y 15.0	609.89	591.97	603.63	618.71
Y 20.0	583.22	557.31	574.66	596.75
Y 25.0	544.71	509.42	532.43	563.57
Y 30.0	493.12	452.08	478.81	518.19
Y 35.0	433.17	387.83	417.16	460.91
Y 40.0	368.00	320.48	351.03	397.47
Y 45.0	300.44	252.79	283.25	330.93
Y 50.0	232.94	186.93	215.70	263.18
Y 55.0	168.19	126.41	151.78	196.79
Y 60.0	110.53	75.86	96.15	135.38
Y 65.0	64.96	43.29	54.55	83.52
Y 70.0	40.45	28.31	34.73	48.17
Y 75.0	25.89	15.13	20.98	32.20
Y 80.0	13.56	4.48	9.60	18.61
Y 85.0	3.63	0.00	0.49	7.32
Y 90.0	0.00	0.00	0.00	0.00
Y 95.0	0.00	0.00	0.00	0.00
Y 100.0	0.00	0.00	0.00	0.00
Y 105.0	0.00	0.00	0.00	0.00
Y 110.0	0.00	0.00	0.00	0.00
Y 115.0	0.00	0.00	0.00	0.00
Y 120.0	0.00	0.00	0.00	0.00
Y 125.0	0.00	0.00	0.00	0.00
Y 130.0	0.00	0.00	0.00	0.00
Y 135.0	0.00	0.00	0.00	0.00
Y 140.0	0.00	0.00	0.00	0.00
Y 145.0	0.00	0.00	0.00	0.00
Y 150.0	0.19	0.11	0.12	0.00
Y 155.0	0.55	0.58	0.49	0.36
Y 160.0	0.89	0.87	0.96	0.63
Y 165.0	1.31	1.34	1.25	1.11
Y 170.0	1.58	1.57	1.67	1.46
Y 175.0	1.84	1.82	1.92	1.79
Y 180.0	1.95	1.95	1.95	1.95
