

IES Indoor Report

Photometric Filename:ICD0LR16015WCCT-WH 6K.IES

Indoor Luminaire Photometric Data

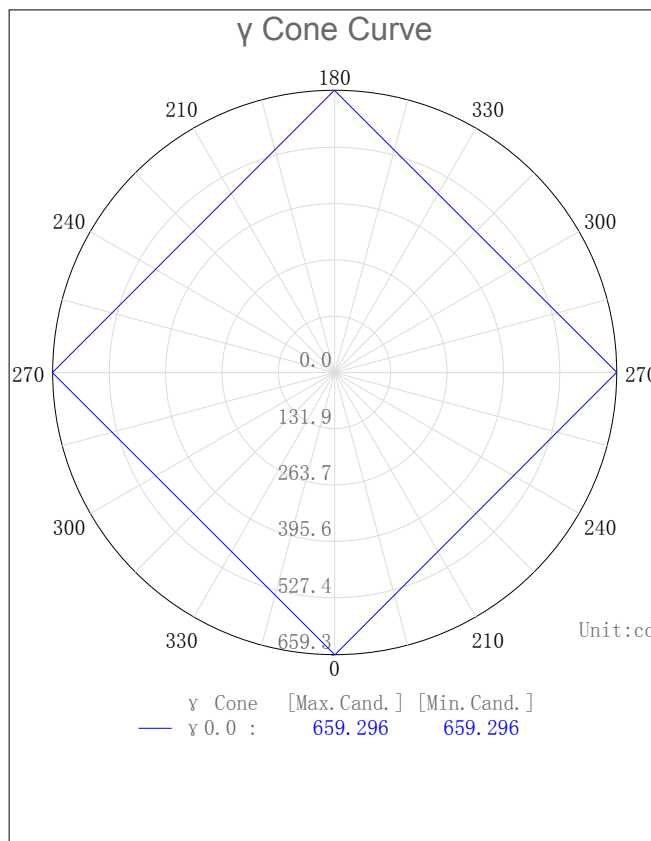
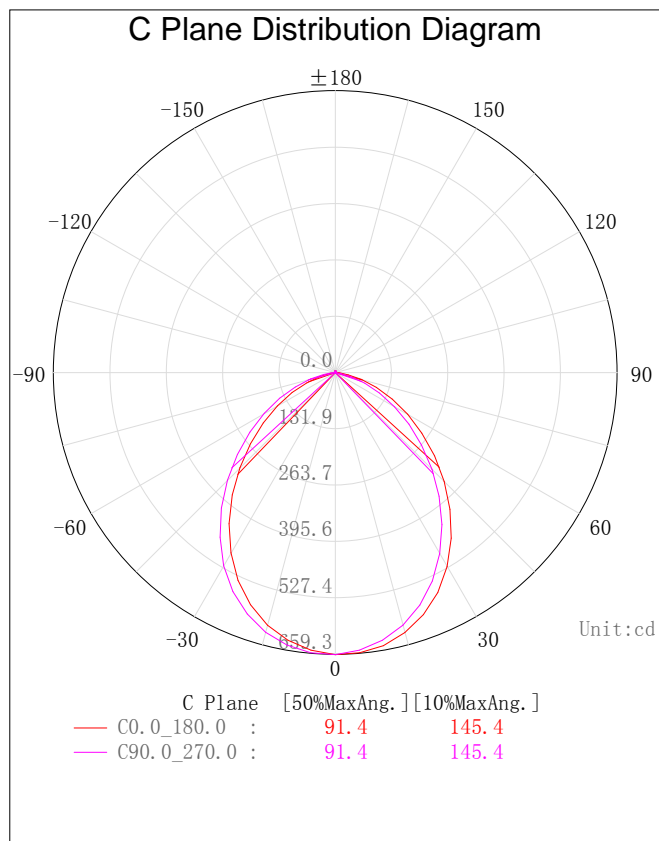
Description Information

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Date: 2020/05/31
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.160m*0.160m*0.046m	Lum. Area(m2):0.033	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): 1430.380	Luminaire Flux: 1430.377lm	Field Angle(10%Imax): 145.4
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1427.682lm 99.81%
Rated Voltage(V):	Luminaire EER(lm/W): 96.257	Up Lumens&Percent: 2.695lm 0.19%
Tested Power(W): 14.860	Max. Cand. (cd): 659.296	S/MH: C0_a180=1.152 C90_270=1.151
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct
Tested Electric:U=238.7V, I=0.064A, PF=0.000	Beam Angle(50%Imax): 91.4	ErP Φuse(120°): 1218.928lm
Lamp Size(W*L*H):0.160m*0.160m*0.046m	Left=-43.8 Right=47.7	IRF: 124.938%

Lighting Distribution Diagram



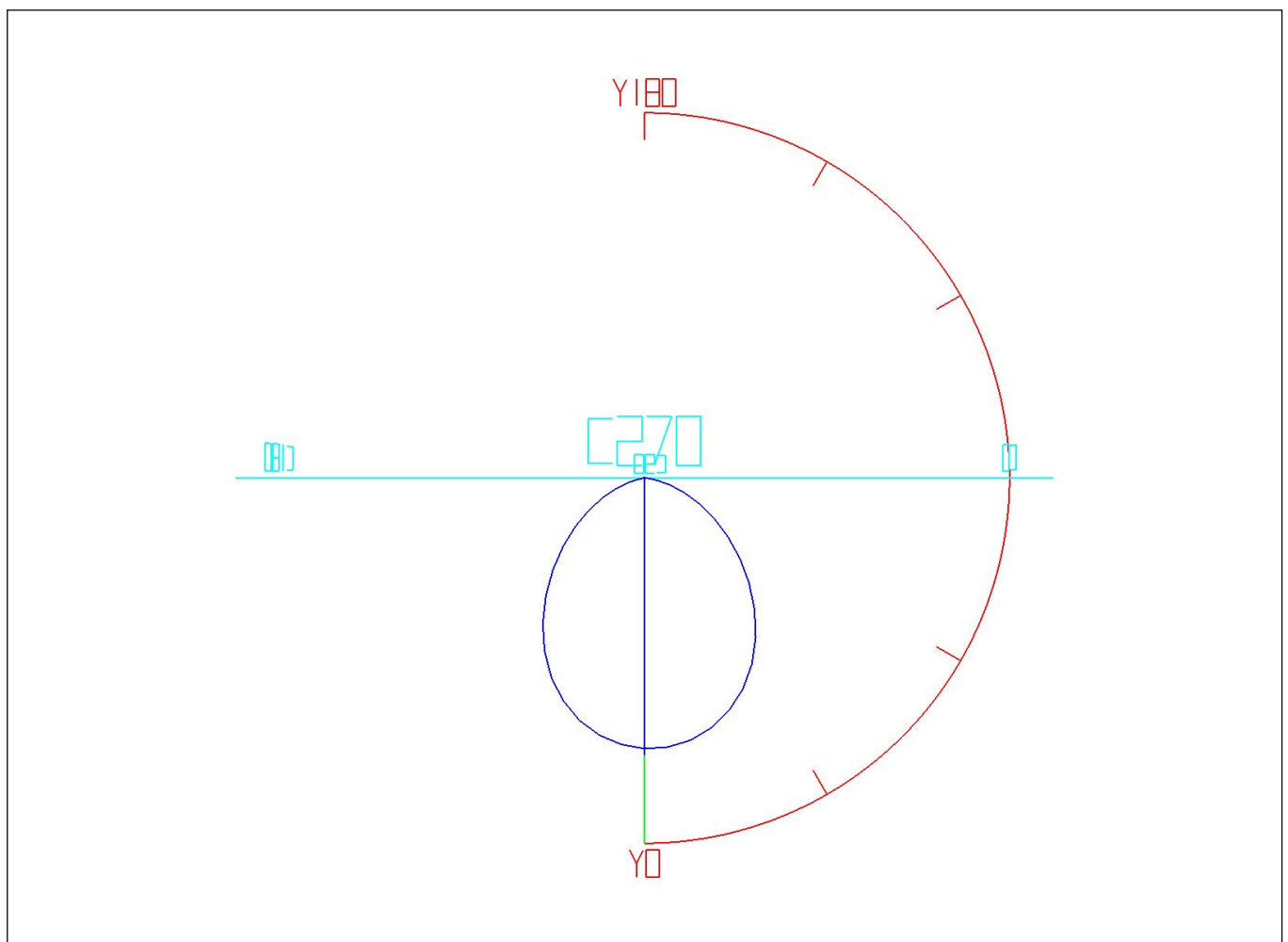
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3D Light Intensity Distribution Modal

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

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

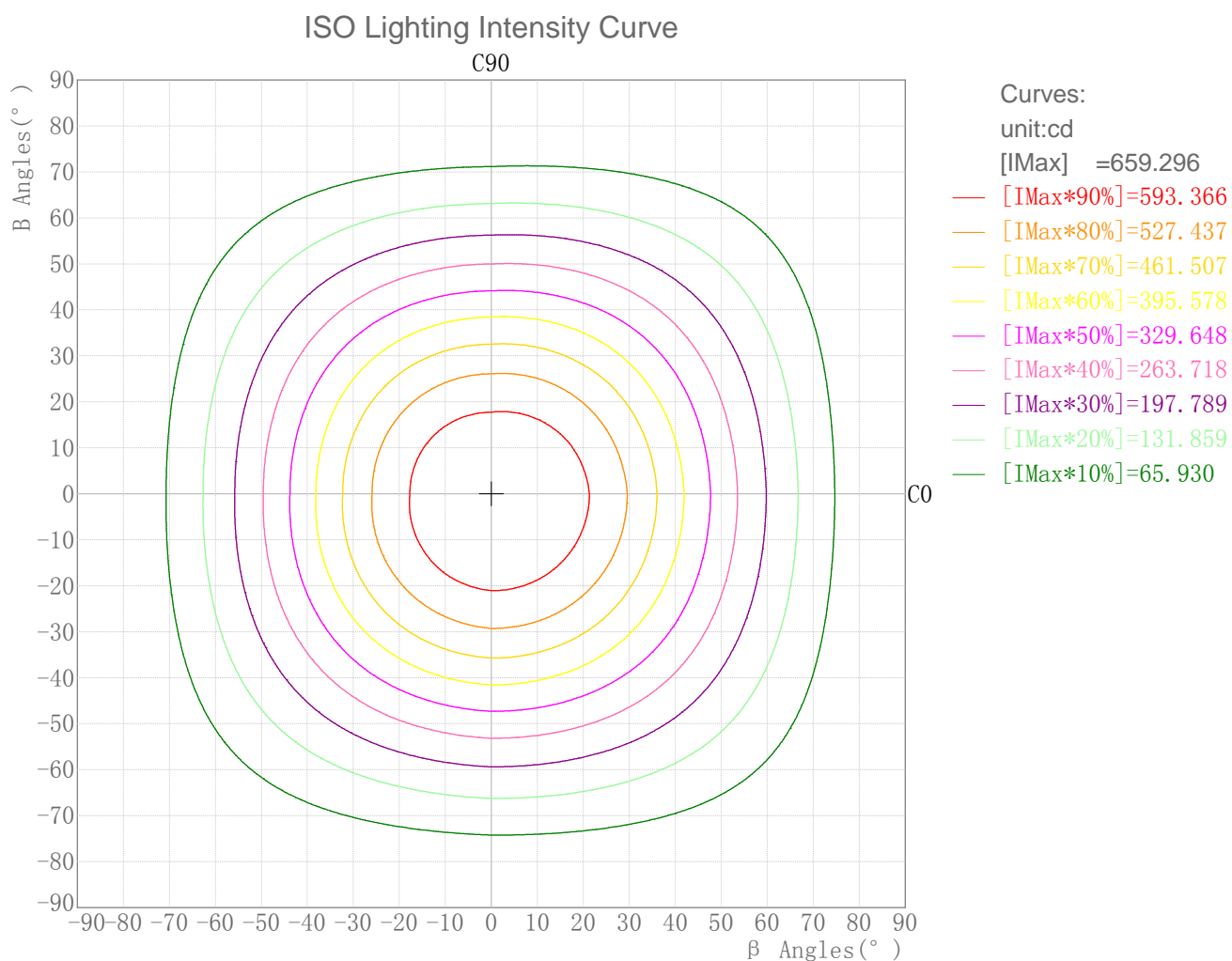
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	15.71	15.71	1.10	1.10
5.0-10.0	46.38	62.09	3.24	4.34
10.0-15.0	74.88	136.97	5.23	9.58
15.0-20.0	99.76	236.72	6.97	16.55
20.0-25.0	119.77	356.49	8.37	24.92
25.0-30.0	133.77	490.27	9.35	34.28
30.0-35.0	141.00	631.26	9.86	44.13
35.0-40.0	141.45	772.72	9.89	54.02
40.0-45.0	135.80	908.51	9.49	63.52
45.0-50.0	125.04	1033.56	8.74	72.26
50.0-55.0	110.37	1143.93	7.72	79.97
55.0-60.0	93.01	1236.94	6.50	86.48
60.0-65.0	74.05	1310.99	5.18	91.65
65.0-70.0	54.53	1365.52	3.81	95.47
70.0-75.0	35.63	1401.15	2.49	97.96
75.0-80.0	18.86	1420.01	1.32	99.27
80.0-85.0	6.64	1426.65	0.46	99.74
85.0-90.0	1.03	1427.68	0.07	99.81
90.0-95.0	0.00	1427.68	0.00	99.81
95.0-100.0	0.00	1427.68	0.00	99.81
100.0-105.0	0.00	1427.68	0.00	99.81
105.0-110.0	0.00	1427.68	0.00	99.81
110.0-115.0	0.00	1427.68	0.00	99.81
115.0-120.0	0.00	1427.68	0.00	99.81
120.0-125.0	0.00	1427.68	0.00	99.81
125.0-130.0	0.00	1427.68	0.00	99.81
130.0-135.0	0.03	1427.71	0.00	99.81
135.0-140.0	0.13	1427.85	0.01	99.82
140.0-145.0	0.27	1428.11	0.02	99.84
145.0-150.0	0.37	1428.48	0.03	99.87
150.0-155.0	0.42	1428.90	0.03	99.90
155.0-160.0	0.44	1429.34	0.03	99.93
160.0-165.0	0.41	1429.75	0.03	99.96
165.0-170.0	0.33	1430.08	0.02	99.98
170.0-175.0	0.22	1430.30	0.02	99.99
175.0-180.0	0.08	1430.38	0.01	100.00

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Rectangle ISO Lighting Intensity Diagram

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Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31



Maximum Light Intensity(cd): 659.30
Maximum Cand.@Angle: H=0.0°,V=0.0°

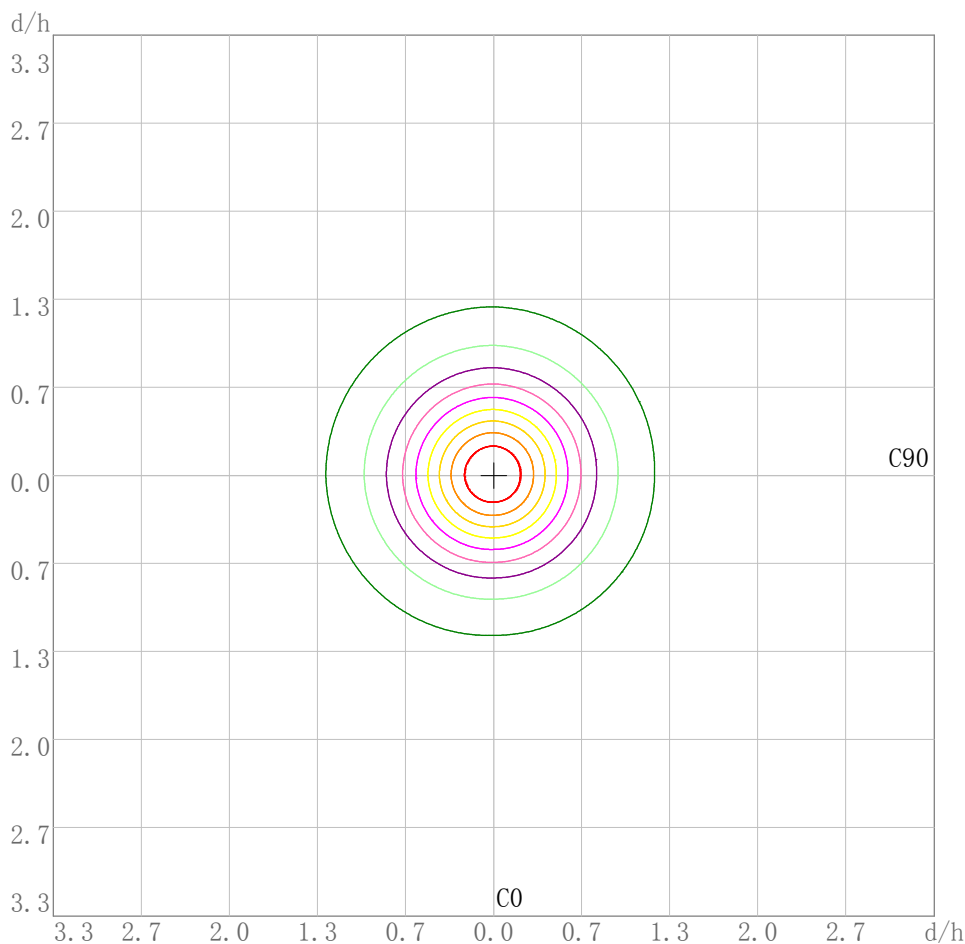
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Plane ISO-Illuminance Diagram

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

Plane ISO-Illuminance Curve



- Curves:**
 unit:lx
 [EMax] =73.255
- [EMax*90%]=65.930
 - [EMax*80%]=58.604
 - [EMax*70%]=51.279
 - [EMax*60%]=43.953
 - [EMax*50%]=36.628
 - [EMax*40%]=29.302
 - [EMax*30%]=21.977
 - [EMax*20%]=14.651
 - [EMax*10%]=7.326

Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 73.26
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

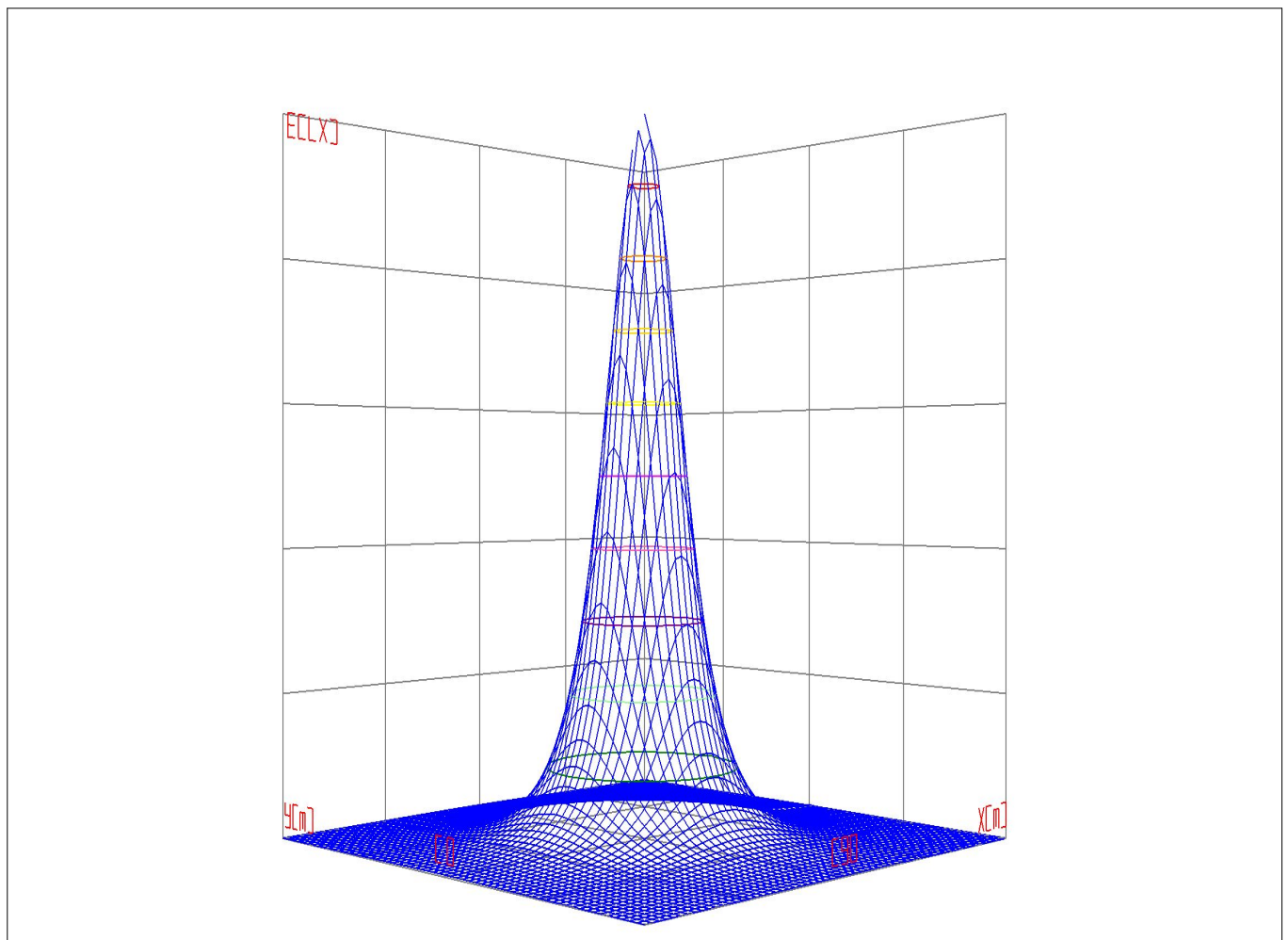
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3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

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

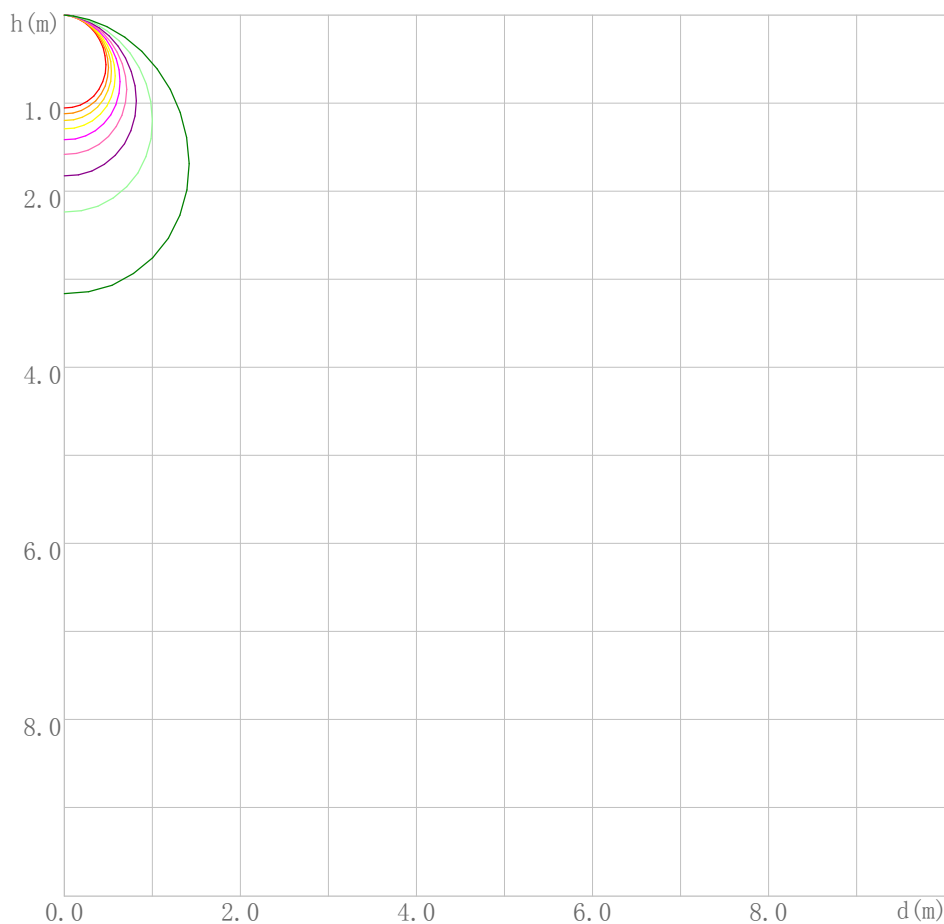
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Space ISO Illuminance Diagram

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

Space ISO Illuminance Curve



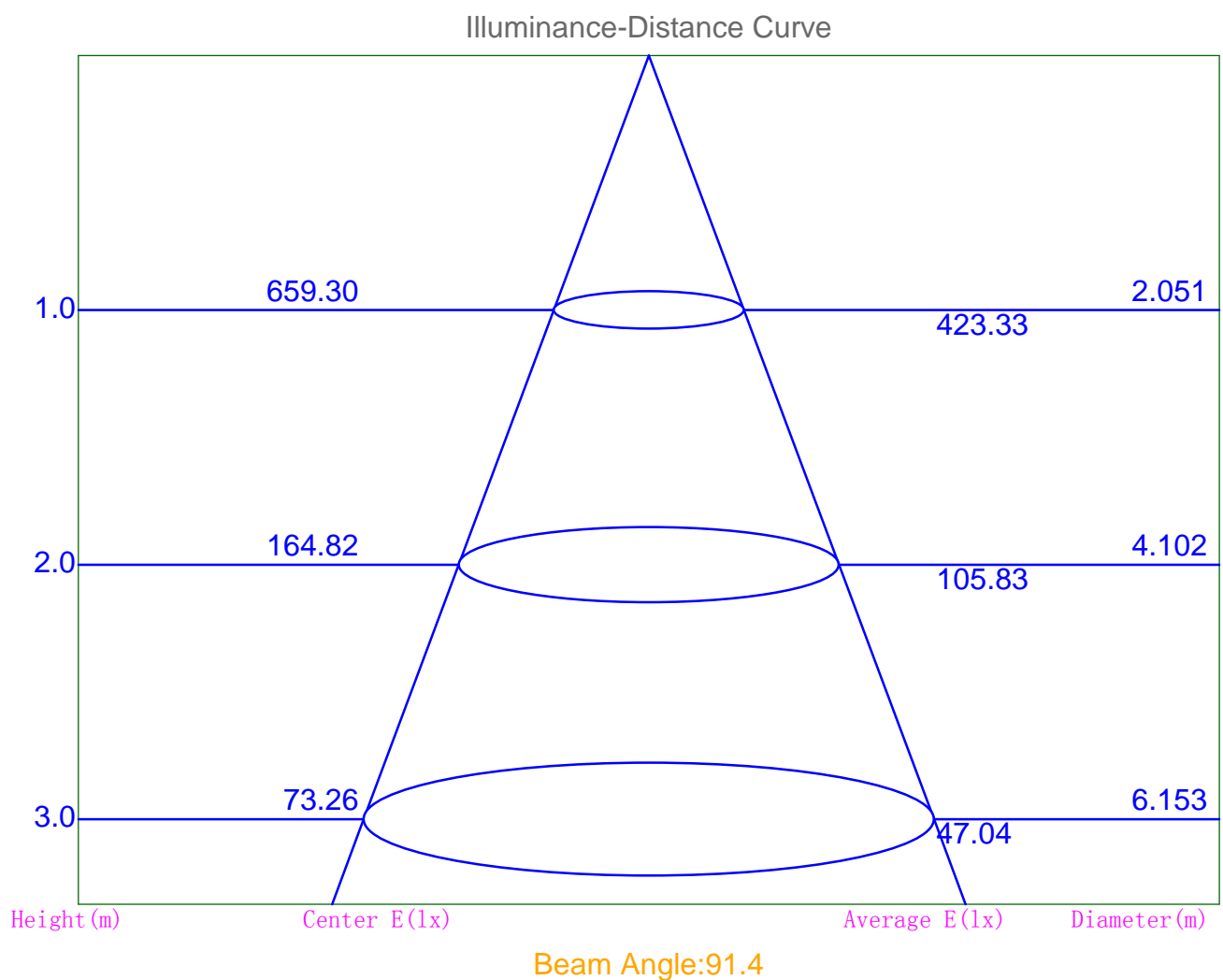
Space Plane Maximum Illuminance and @Angle:659.30,0.0deg
Plane Maximum Lighting Intensity and @Angle:659.296cd,0deg

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Illuminance-Distance Diagram

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31



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Indoor Luminance Limiting Curves

Lum. Name: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

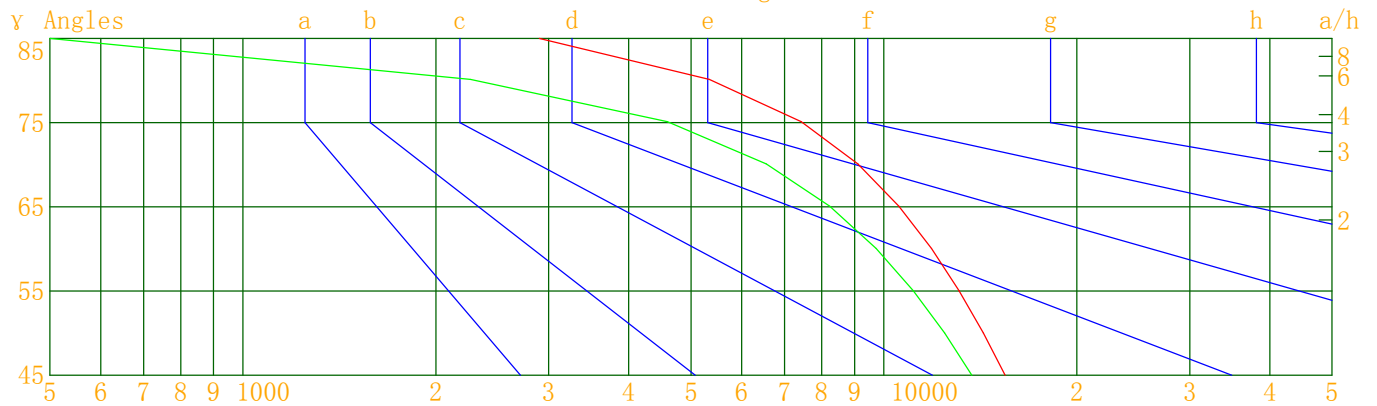
Glare Grade Table

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	15456	14301	13092	11860	10552	9102	7434	5341	2901
C90	13715	12436	11118	9724	8229	6552	4596	2265	0

Luminance Limiting Curve



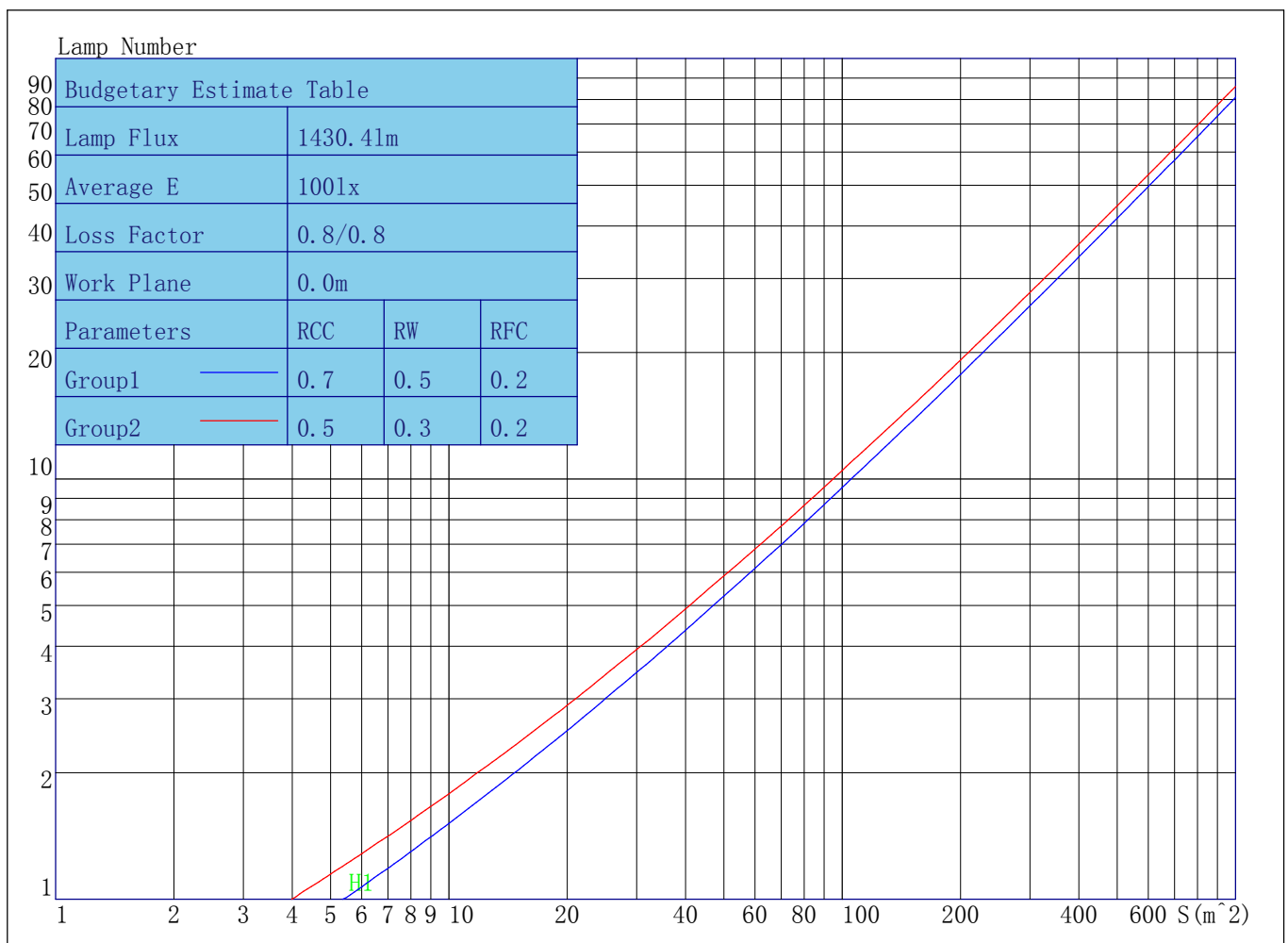
Luminous Size: Length(m)=0.160 Width(m)=0.160 Height(m)=0.046 Area(m²)=0.032960
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

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Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31



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: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

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	110	106	102	99	108	104	101	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	58	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	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	39	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: ICDLR16015WCCT-WH	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2020/05/31

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	32.5	35.8	33.2	36.4	37.0	31.5	34.8	32.3	35.5	36.0
Y=3H	35.7	39.0	36.4	39.6	40.2	34.1	37.4	34.8	38.0	38.6
Y=4H	37.7	40.5	38.4	41.1	41.7	35.7	38.5	36.4	39.1	39.7
Y=6H	38.5	41.2	39.2	41.8	42.4	36.1	38.8	36.8	39.4	40.0
Y=8H	38.7	41.4	39.4	42.0	42.6	36.1	38.8	36.8	39.4	40.0
Y=12H	38.7	41.4	39.5	42.0	42.6	36.0	38.7	36.8	39.3	39.9
X=4H Y=2H	33.5	36.2	34.2	36.9	37.4	32.8	35.5	33.5	36.2	36.8
Y=3H	36.8	39.6	37.5	40.2	40.8	35.5	38.3	36.2	38.9	39.5
Y=4H	37.3	38.8	38.2	39.6	40.4	35.6	37.1	36.5	37.9	38.7
Y=6H	38.4	39.7	39.3	40.6	41.3	36.2	37.5	37.1	38.4	39.2
Y=8H	38.7	40.0	39.6	40.8	41.6	36.3	37.6	37.2	38.4	39.2
Y=12H	37.9	38.9	39.0	39.9	40.8	35.4	36.4	36.4	37.4	38.3
X=8H Y=4H	37.4	38.7	38.3	39.5	40.3	35.8	37.1	36.7	37.9	38.7
Y=6H	37.7	38.6	38.7	39.5	40.4	35.6	36.5	36.7	37.5	38.3
Y=8H	37.6	38.2	38.7	39.3	40.2	35.3	36.0	36.4	37.0	37.9
Y=12H	37.7	38.4	38.8	39.4	40.3	35.3	35.9	36.4	37.0	37.9
X=12H Y=4H	36.4	37.5	37.5	38.5	39.3	34.8	35.9	35.9	36.9	37.7
Y=6H	37.2	37.9	38.3	38.9	39.8	35.1	35.8	36.2	36.9	37.8
Y=8H	37.5	38.2	38.6	39.2	40.1	35.3	35.9	36.4	37.0	37.9
Variations with the objver position at spacings										
S=1.0H	3.1/-1.4					3.3/-0.7				
S=1.5H	-1.4/-21.6					-0.4/-19.9				
S=2.0H	-1.4/-21.6					-0.4/-19.9				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	659.30	659.30	659.30	659.30
Y 5.0	658.01	651.61	651.56	657.60
Y 10.0	648.69	635.82	635.89	647.23
Y 15.0	629.80	611.42	611.50	628.63
Y 20.0	602.81	578.44	577.98	601.17
Y 25.0	567.43	538.08	536.68	565.20
Y 30.0	523.70	488.91	487.05	521.20
Y 35.0	472.89	434.65	431.90	469.63
Y 40.0	417.46	377.43	373.76	413.58
Y 45.0	360.23	319.65	315.35	356.21
Y 50.0	302.98	263.47	258.70	298.75
Y 55.0	247.51	210.19	205.36	243.51
Y 60.0	195.46	160.26	155.94	191.34
Y 65.0	146.98	114.63	110.85	142.96
Y 70.0	102.61	73.86	70.65	98.82
Y 75.0	63.42	39.20	36.66	60.02
Y 80.0	30.57	12.97	11.30	27.81
Y 85.0	8.33	0.00	0.00	6.78
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	0.20	0.00	0.18	0.19
Y 140.0	0.60	0.47	0.70	0.56
Y 145.0	1.06	0.86	1.13	1.04
Y 150.0	1.51	1.38	1.61	1.40
Y 155.0	1.88	1.73	2.01	1.83
Y 160.0	2.35	2.16	2.42	2.23
Y 165.0	2.65	2.56	2.80	2.57
Y 170.0	3.00	2.81	3.06	2.98
Y 175.0	3.23	3.07	3.28	3.26
Y 180.0	3.32	3.32	3.32	3.32
