

Indoor Luminaire Photometric Data

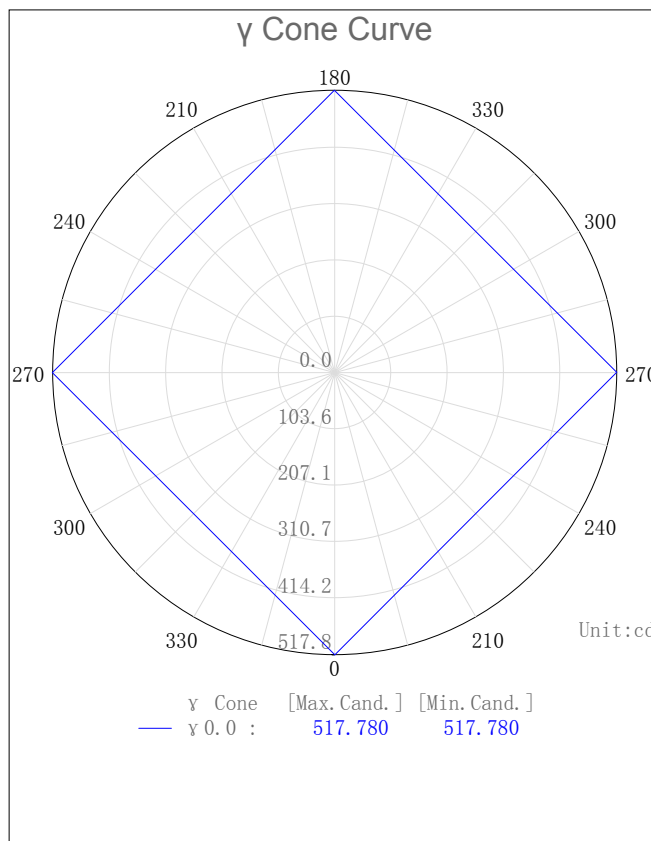
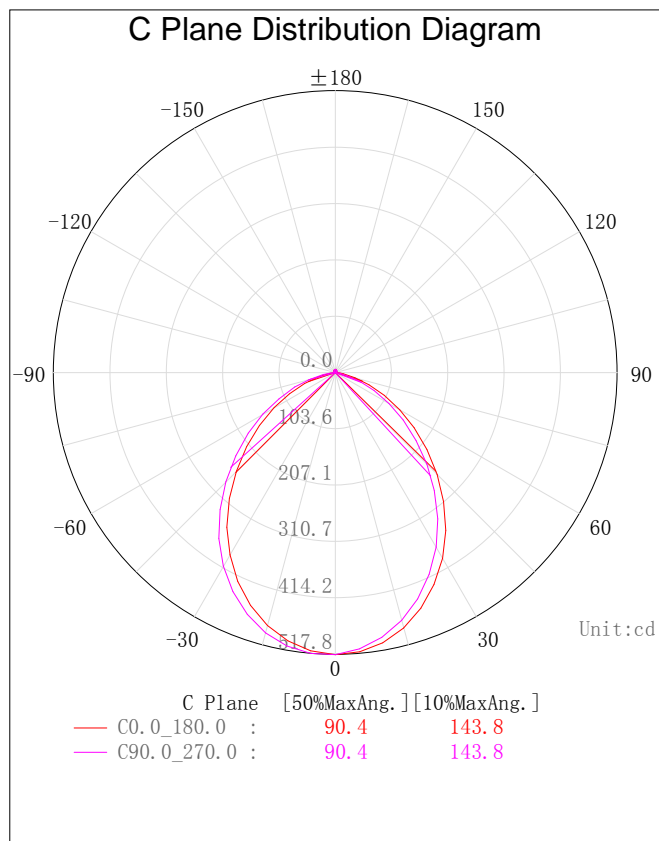
Description Information

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Date: 2019/03/22
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): 1111.350	Luminaire Flux: 1111.351lm	Field Angle(10%Imax): 143.8	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1097.214lm 98.73%	
Rated Voltage(V):	Luminaire EER(lm/W): 95.395	Up Lumens&Percent: 14.138lm 1.27%	
Tested Power(W): 11.650	Max. Cand. (cd): 517.780	S/MH: C0_a180=1.135 C90_270=1.136	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electric:U=237.8V, I=0.050A, PF=0.000	Beam Angle(50%Imax): 90.4	ErP Φuse(120°): 943.756lm	
Lamp Size(W*L*H):0.108m*0.108m*0.042m	Left=-44.8 Right=45.6	IRF: 129.355%	

Lighting Distribution Diagram



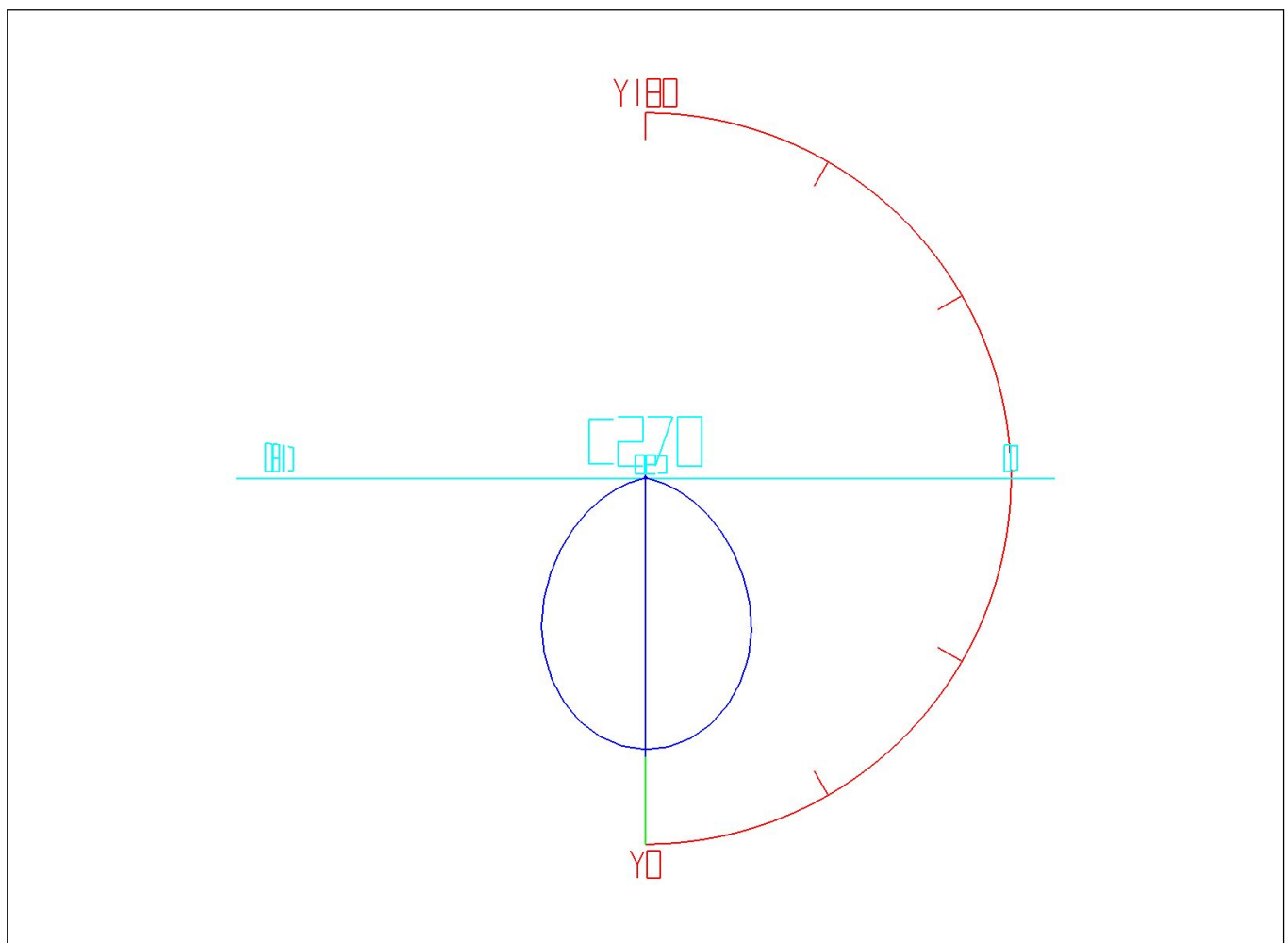
IES Indoor Report

Photometric Filename:ICDLR12512WCCT-4K.IES

3D Light Intensity Distribution Modal

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

3D Light Intensity Distribution Modal



Curves: 3D Model — Fixture — Vert. HUD — Hori. HUD —
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

IES Indoor Report

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Zonal Flux Tabulation

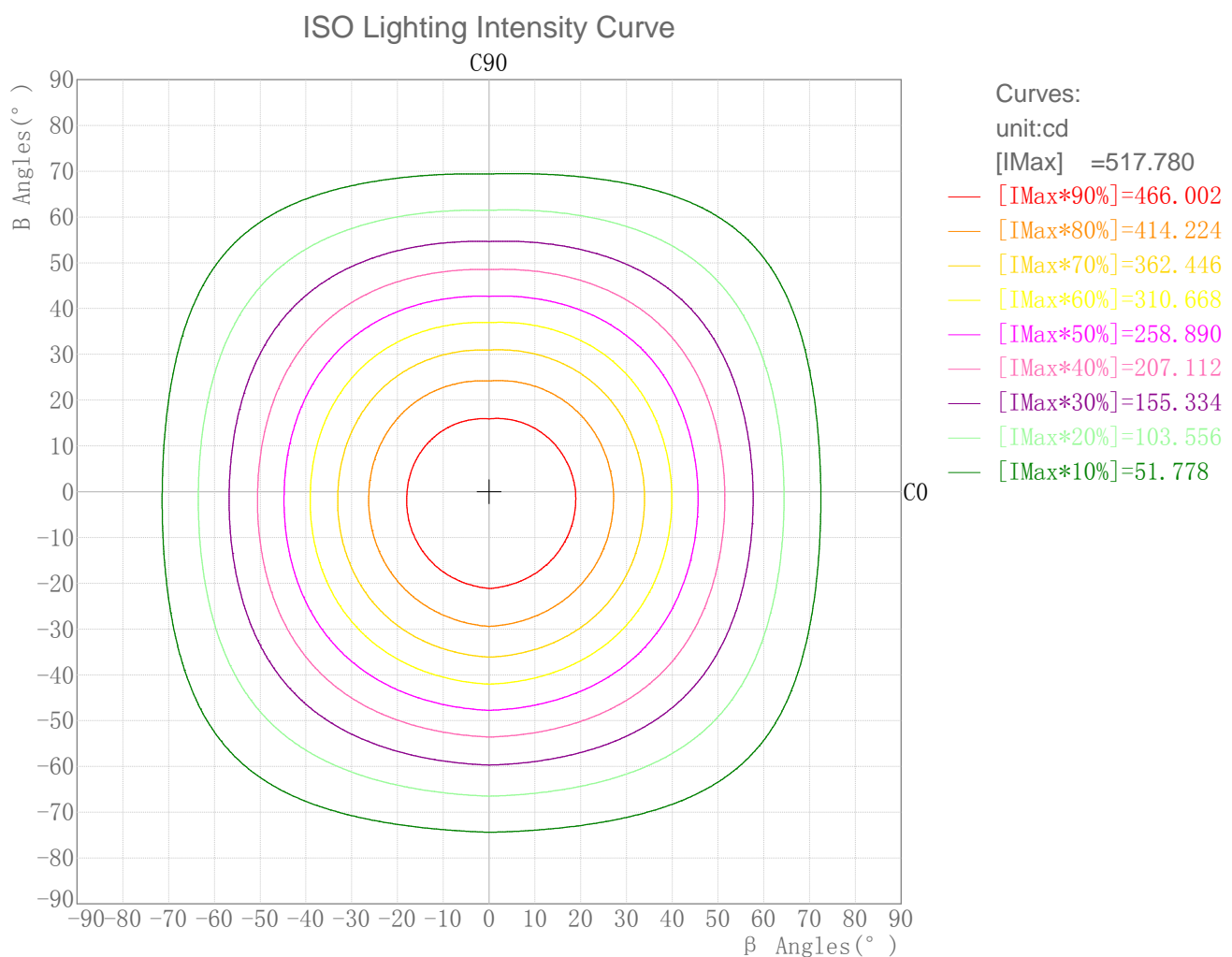
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	12.33	12.33	1.11	1.11
5.0-10.0	36.34	48.67	3.27	4.38
10.0-15.0	58.45	107.12	5.26	9.64
15.0-20.0	77.53	184.66	6.98	16.62
20.0-25.0	92.71	277.36	8.34	24.96
25.0-30.0	103.35	380.72	9.30	34.26
30.0-35.0	109.04	489.75	9.81	44.07
35.0-40.0	109.48	599.23	9.85	53.92
40.0-45.0	104.93	704.16	9.44	63.36
45.0-50.0	96.33	800.49	8.67	72.03
50.0-55.0	84.66	885.15	7.62	79.65
55.0-60.0	70.82	955.98	6.37	86.02
60.0-65.0	55.72	1011.70	5.01	91.03
65.0-70.0	40.32	1052.02	3.63	94.66
70.0-75.0	25.61	1077.63	2.30	96.97
75.0-80.0	13.09	1090.72	1.18	98.14
80.0-85.0	5.04	1095.76	0.45	98.60
85.0-90.0	1.46	1097.21	0.13	98.73
90.0-95.0	0.39	1097.60	0.03	98.76
95.0-100.0	0.35	1097.95	0.03	98.79
100.0-105.0	0.44	1098.39	0.04	98.83
105.0-110.0	0.58	1098.97	0.05	98.89
110.0-115.0	0.72	1099.69	0.06	98.95
115.0-120.0	0.87	1100.55	0.08	99.03
120.0-125.0	0.99	1101.54	0.09	99.12
125.0-130.0	1.09	1102.63	0.10	99.22
130.0-135.0	1.17	1103.80	0.11	99.32
135.0-140.0	1.20	1105.00	0.11	99.43
140.0-145.0	1.20	1106.21	0.11	99.54
145.0-150.0	1.16	1107.37	0.10	99.64
150.0-155.0	1.08	1108.45	0.10	99.74
155.0-160.0	0.97	1109.42	0.09	99.83
160.0-165.0	0.81	1110.22	0.07	99.90
165.0-170.0	0.61	1110.83	0.06	99.95
170.0-175.0	0.39	1111.22	0.03	99.99
175.0-180.0	0.13	1111.35	0.01	100.00

IES Indoor Report

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
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Maximum Light Intensity(cd): 517.78

Maximum Cand.@Angle: H=0.0°,V=0.0°

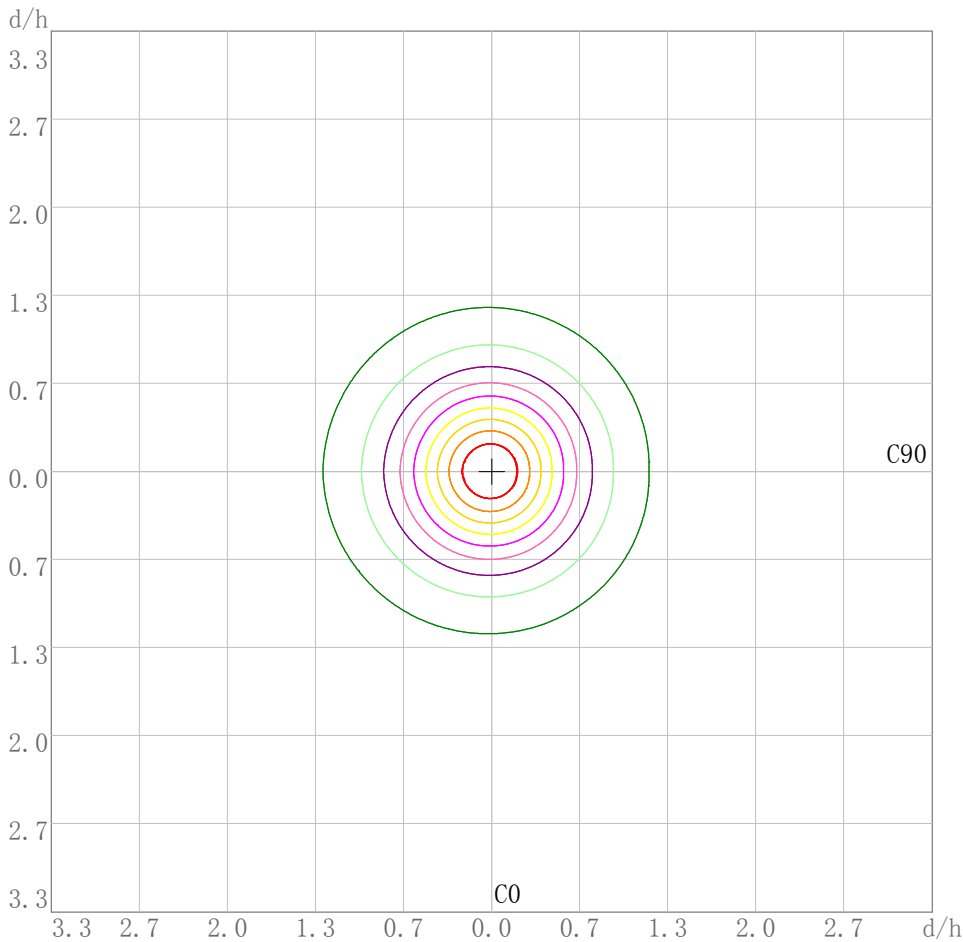
IES Indoor Report

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Plane ISO-Illuminance Diagram

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

Plane ISO-Illuminance Curve



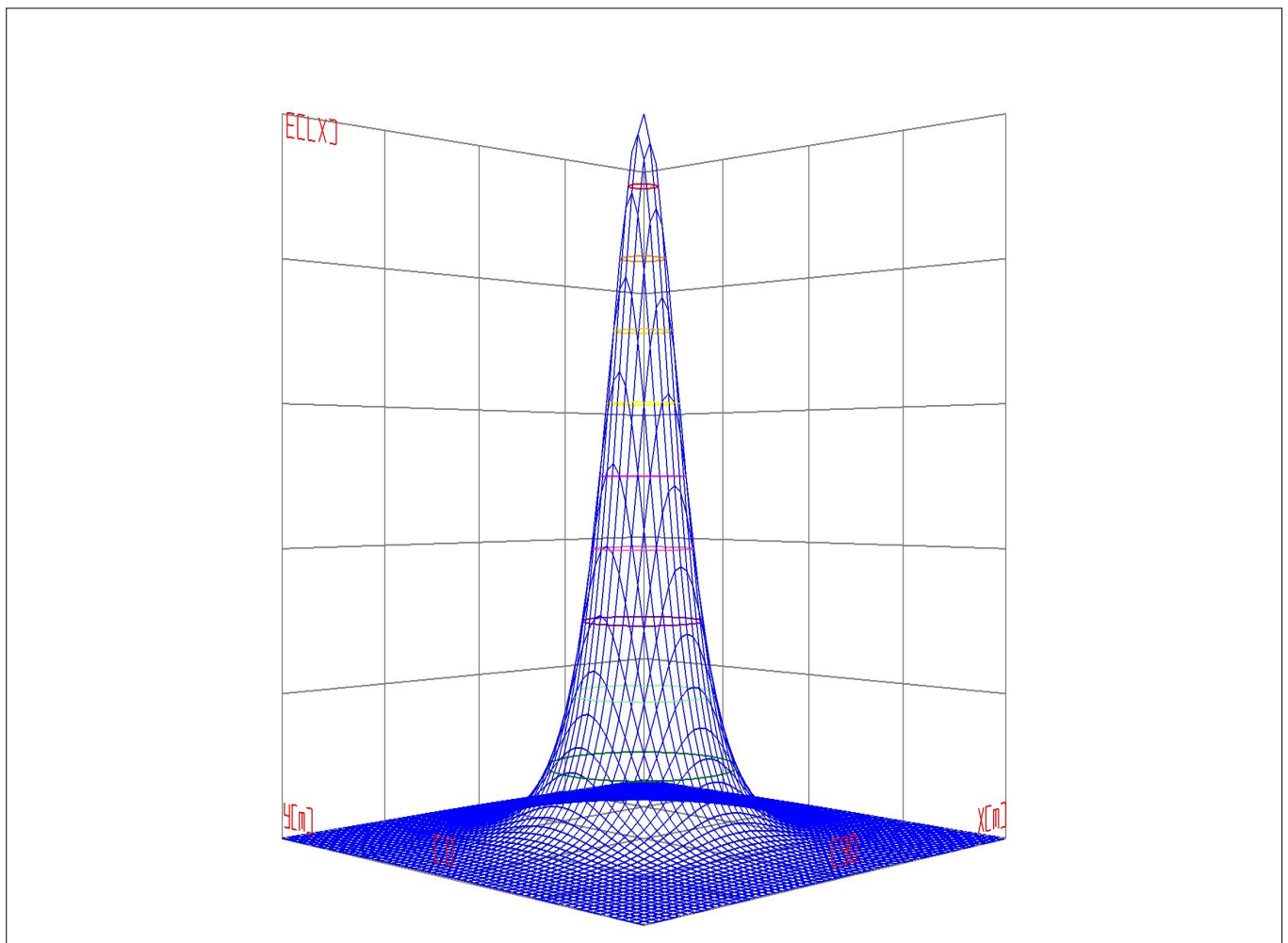
- Curves:
unit:lx
- [EMax] =57.531
 - [EMax*90%]=51.778
 - [EMax*80%]=46.025
 - [EMax*70%]=40.272
 - [EMax*60%]=34.519
 - [EMax*50%]=28.766
 - [EMax*40%]=23.012
 - [EMax*30%]=17.259
 - [EMax*20%]=11.506
 - [EMax*10%]=5.753

Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 57.53
 Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

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

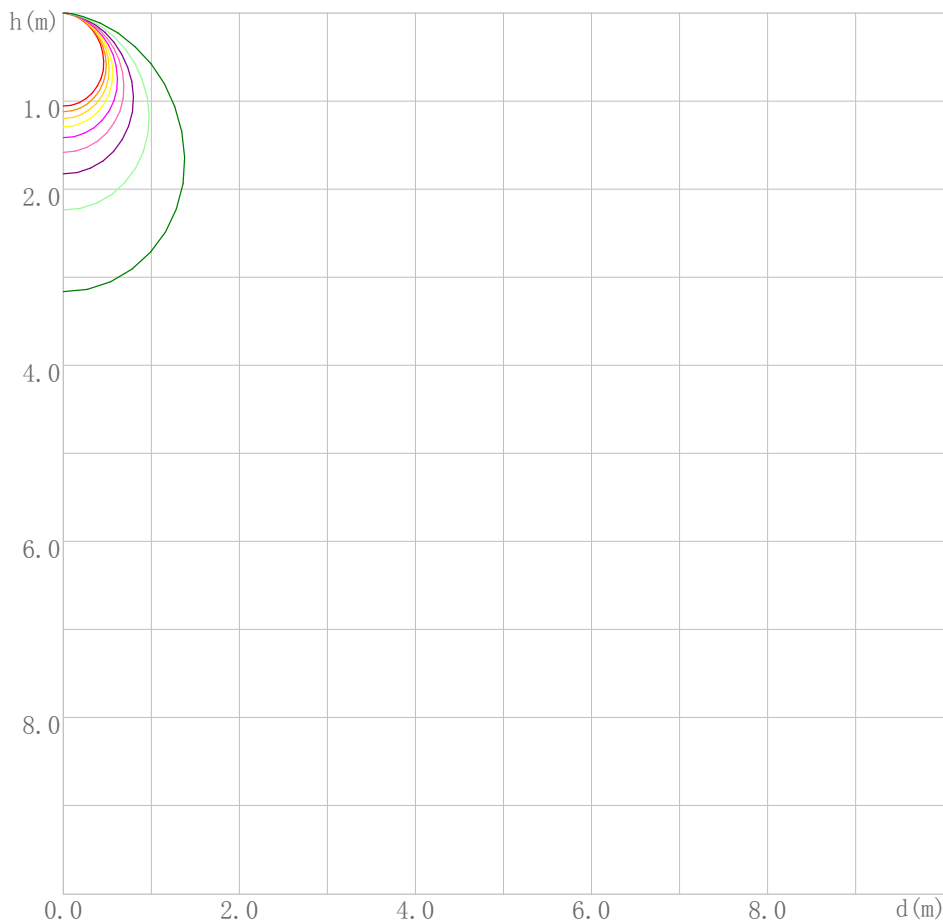
IES Indoor Report

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Space ISO Illuminance Diagram

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

Space ISO Illuminance Curve

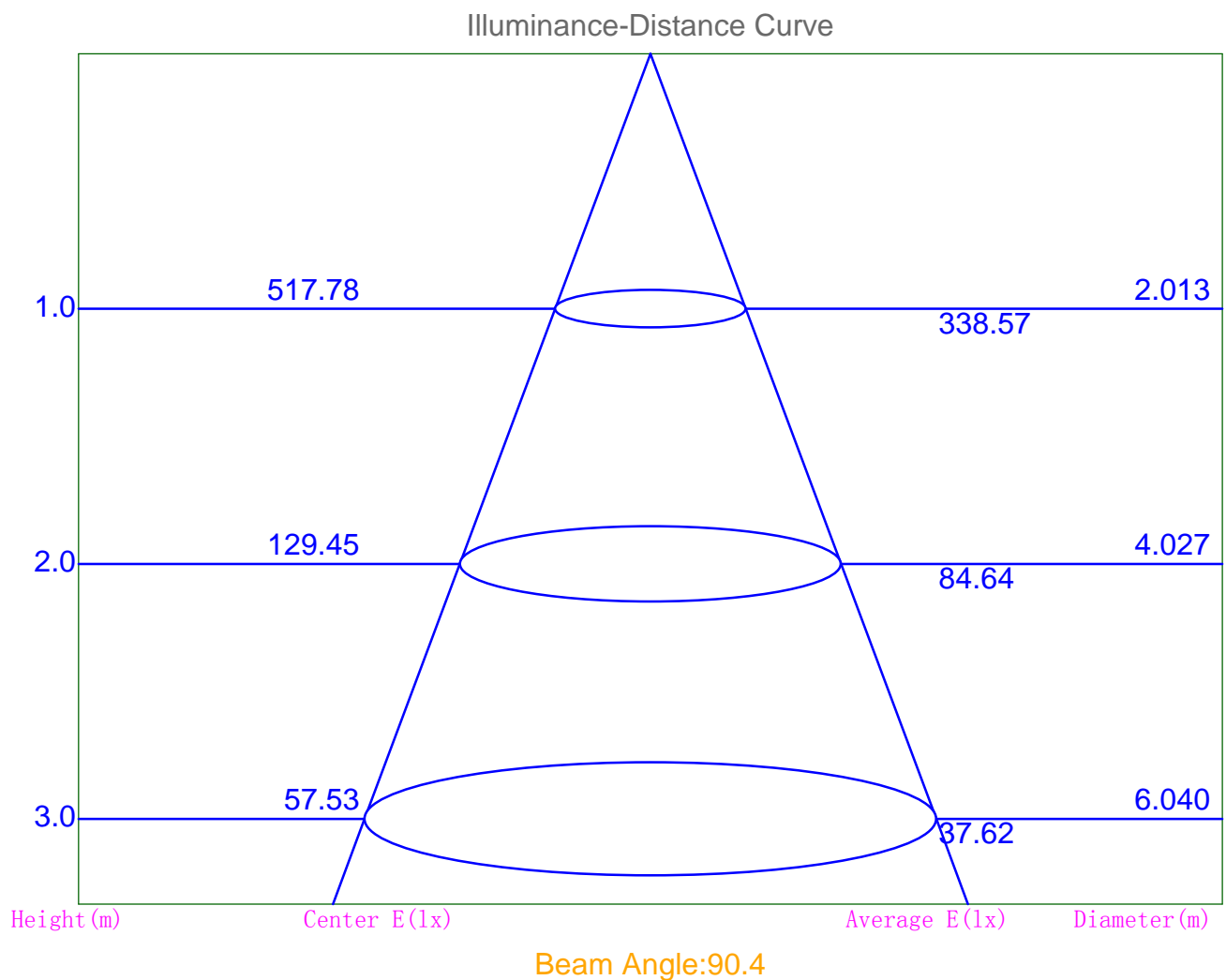


- Curves:
unit:lx
[EMax] =517.780
- [EMax*90%]=466.002
 - [EMax*80%]=414.224
 - [EMax*70%]=362.446
 - [EMax*60%]=310.668
 - [EMax*50%]=258.890
 - [EMax*40%]=207.112
 - [EMax*30%]=155.334
 - [EMax*20%]=103.556
 - [EMax*10%]=51.778

Space Plane Maximum Illuminance and @Angle:517.78,0.0deg
Plane Maximum Lighting Intensity and @Angle:517.780cd,0deg

Illuminance-Distance Diagram

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22



Indoor Luminance Limiting Curves

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

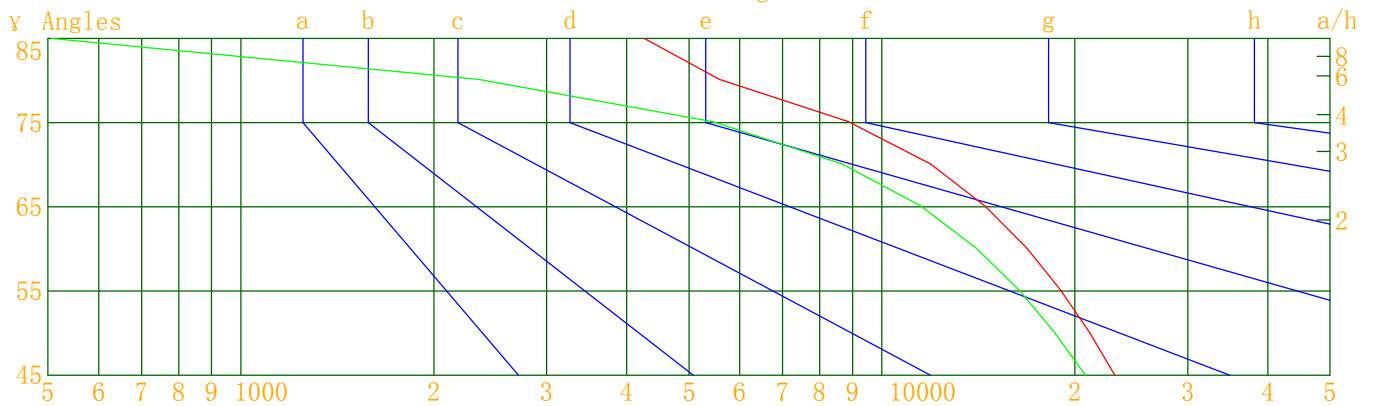
Glare Grade Table

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	23089	21119	19043	16844	14496	11900	8870	5582	4259
C90	20765	18627	16399	14049	11509	8667	5450	2351	506

Luminance Limiting Curve



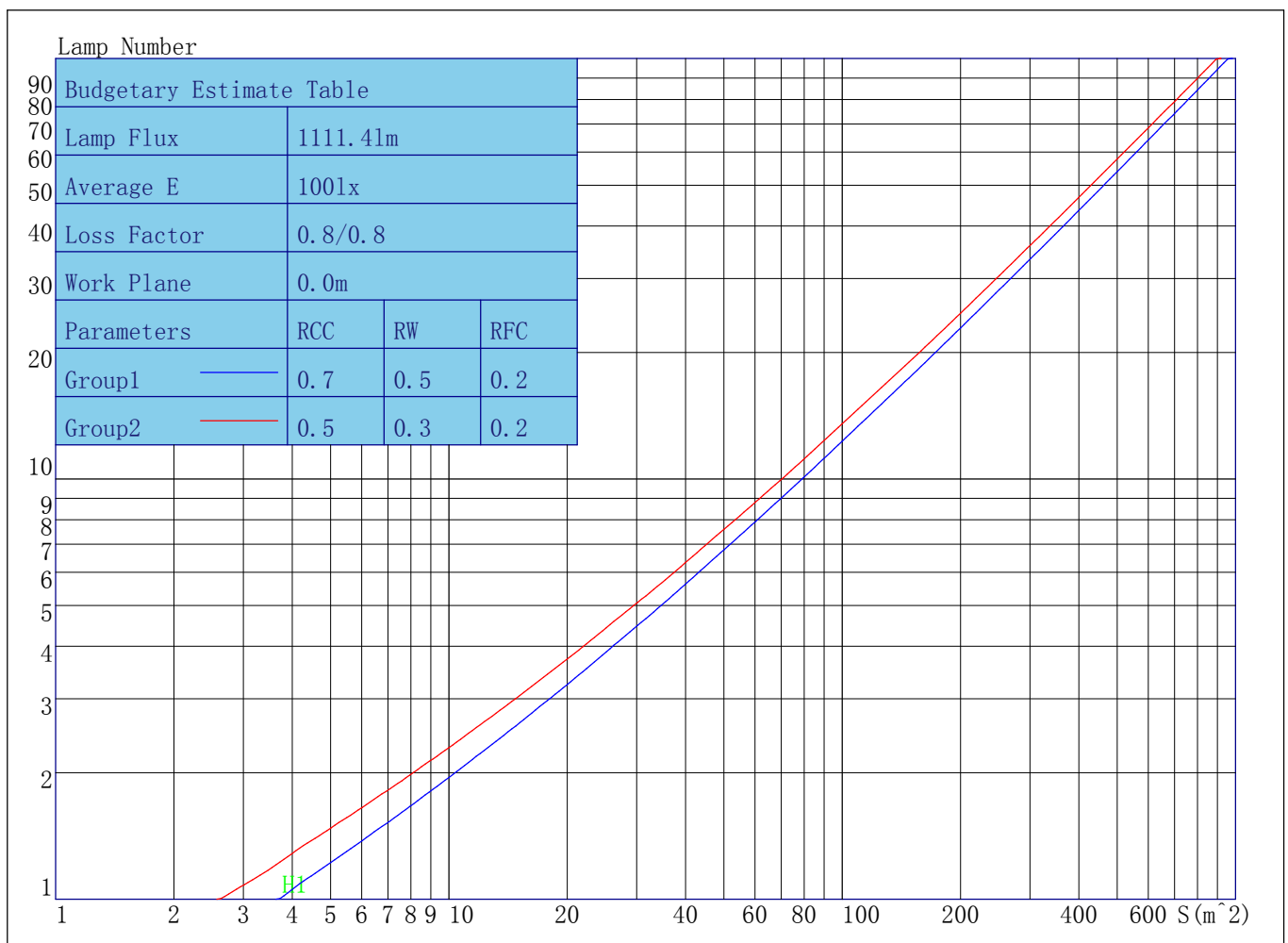
Luminous Size: Length(m)=0.108 Width(m)=0.108 Height(m)=0.042 Area(m^2)=0.016200
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

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Indoor Budgetary Estimate Table

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22



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

IES Indoor Report

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Indoor Coefficient of Utilization Table

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

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	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	91	90	88	86
2	101	94	88	83	99	92	87	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	76	71	67	74	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	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	45	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

IES Indoor Report

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Unified Glare Rating Table

Lum. Name: ICDLR12512WCCT-4K	Lum. Catalog: LED DOWNLIGHT	Test ID:
Lamp Name: 4000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/03/22

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	36.8	40.0	37.6	40.7	41.4	36.0	39.2	36.8	39.9	40.5
Y=3H	39.6	42.8	40.4	43.5	44.1	38.1	41.4	38.9	42.1	42.7
Y=4H	41.2	43.9	42.0	44.7	45.3	39.5	42.2	40.3	42.9	43.6
Y=6H	41.8	44.4	42.6	45.1	45.8	39.7	42.4	40.5	43.1	43.7
Y=8H	41.9	44.5	42.7	45.2	45.8	39.7	42.3	40.5	43.0	43.7
Y=12H	41.9	44.5	42.7	45.2	45.9	39.6	42.2	40.4	43.0	43.6
X=4H Y=2H	37.7	40.4	38.5	41.1	41.7	37.0	39.7	37.8	40.4	41.1
Y=3H	40.5	43.2	41.3	43.9	44.6	39.3	42.0	40.1	42.8	43.4
Y=4H	40.6	42.0	41.6	43.0	43.8	39.1	40.5	40.1	41.5	42.3
Y=6H	41.3	42.6	42.4	43.6	44.4	39.5	40.8	40.5	41.7	42.6
Y=8H	41.5	42.8	42.6	43.7	44.6	39.5	40.8	40.6	41.7	42.6
Y=12H	40.7	41.8	41.9	42.8	43.8	38.6	39.6	39.7	40.7	41.7
X=8H Y=4H	40.6	41.9	41.7	42.9	43.7	39.2	40.5	40.2	41.4	42.3
Y=6H	40.6	41.5	41.7	42.5	43.5	38.8	39.7	40.0	40.7	41.7
Y=8H	40.4	41.0	41.6	42.2	43.2	38.4	39.1	39.6	40.2	41.2
Y=12H	40.5	41.1	41.7	42.3	43.3	38.4	39.1	39.6	40.2	41.2
X=12H Y=4H	39.7	40.7	40.8	41.8	42.7	38.3	39.3	39.4	40.3	41.3
Y=6H	40.1	40.8	41.3	41.9	42.9	38.3	39.0	39.5	40.1	41.2
Y=8H	40.3	40.9	41.5	42.1	43.1	38.4	39.0	39.6	40.2	41.2
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/-20.9				
S=2.0H	-1.3/-22.4					-0.5/-20.9				

IES Indoor Report

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	517.78	517.78	517.78	517.78
Y 5.0	514.72	509.48	513.11	517.77
Y 10.0	503.70	493.92	500.60	510.17
Y 15.0	485.70	471.24	481.19	494.98
Y 20.0	460.34	442.27	454.94	472.49
Y 25.0	429.55	408.69	423.29	444.04
Y 30.0	394.10	370.29	386.40	410.35
Y 35.0	353.92	328.03	346.59	372.15
Y 40.0	309.83	283.10	302.03	329.04
Y 45.0	264.49	237.86	256.67	283.81
Y 50.0	219.92	193.97	211.80	238.44
Y 55.0	176.94	152.38	169.39	194.58
Y 60.0	136.43	113.80	129.27	152.80
Y 65.0	99.25	78.80	92.40	114.11
Y 70.0	65.93	48.02	59.52	78.88
Y 75.0	37.19	22.85	31.62	47.94
Y 80.0	15.70	6.61	11.59	22.25
Y 85.0	6.01	0.71	3.45	7.78
Y 90.0	1.17	0.00	0.00	2.13
Y 95.0	1.13	0.00	0.00	1.24
Y 100.0	1.16	0.18	0.19	1.19
Y 105.0	1.39	0.53	0.60	1.37
Y 110.0	1.59	0.89	0.94	1.54
Y 115.0	1.90	1.34	1.31	1.81
Y 120.0	2.26	1.68	1.78	2.15
Y 125.0	2.55	2.16	2.15	2.40
Y 130.0	2.95	2.49	2.58	2.79
Y 135.0	3.28	2.92	2.99	3.11
Y 140.0	3.59	3.32	3.33	3.43
Y 145.0	3.97	3.65	3.76	3.77
Y 150.0	4.26	4.04	4.07	4.02
Y 155.0	4.61	4.32	4.43	4.46
Y 160.0	4.91	4.64	4.79	4.68
Y 165.0	5.16	4.90	5.06	4.97
Y 170.0	5.43	5.11	5.35	5.29
Y 175.0	5.61	5.30	5.52	5.49
Y 180.0	5.55	5.55	5.55	5.55
