

IES Indoor Report

Photometric Filename:SLIMBATTEN50W6K (1).IES

Indoor Luminaire Photometric Data

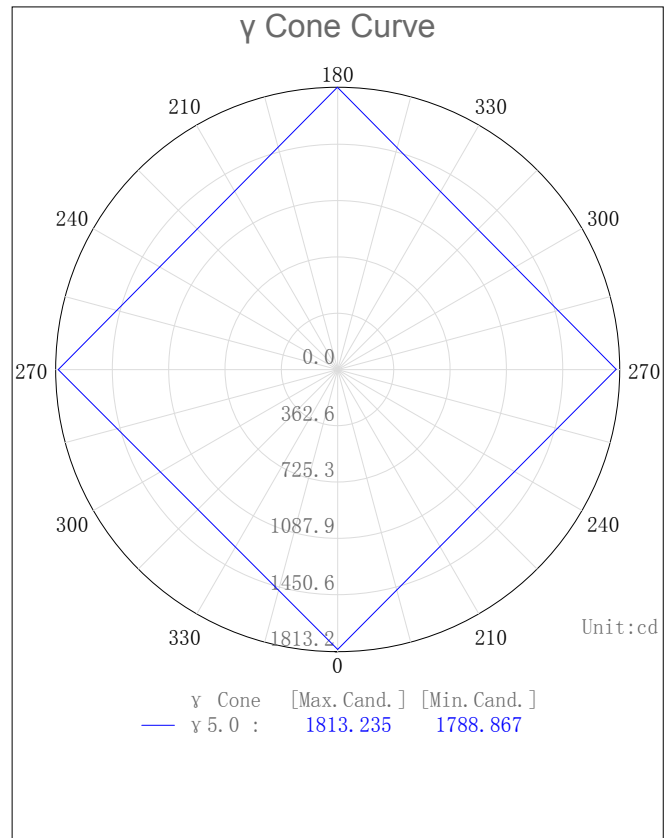
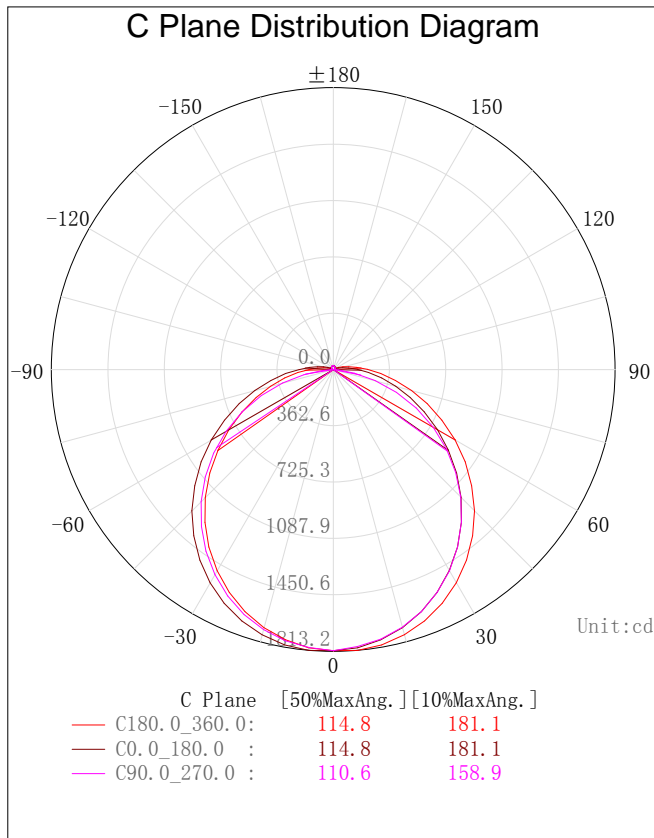
Description Information

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Date: 2019/08/17
Manufacture:	ShldAngle(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.080m*1.500m*0.043m	Lum. Area(m2):0.184	Lum. W(kg): 0.000
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): 5501.300	Luminaire Flux: 5501.305lm	Field Angle(10%Imax): 181.1	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 5317.534lm 96.66%	
Rated Voltage(V):	Luminaire EER(lm/W): 116.061	Up Lumens&Percent: 183.770lm 3.34%	
Tested Power(W): 47.400	Max. Cand. (cd): 1813.235	S/MH: C0_a180=1.265 C90_270=1.242	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=5.0	CIE Type: Semi-Direct	
Tested Electric:U=239.9V, I=0.212A, PF=0.000	Beam Angle(50%Imax): 114.8	ErP Φuse(120°): 4080.122lm	
Lamp Size(W*L*H):0.080m*1.500m*0.043m	Left=-54.9 Right=59.9	IRF: 110.769%	

Lighting Distribution Diagram



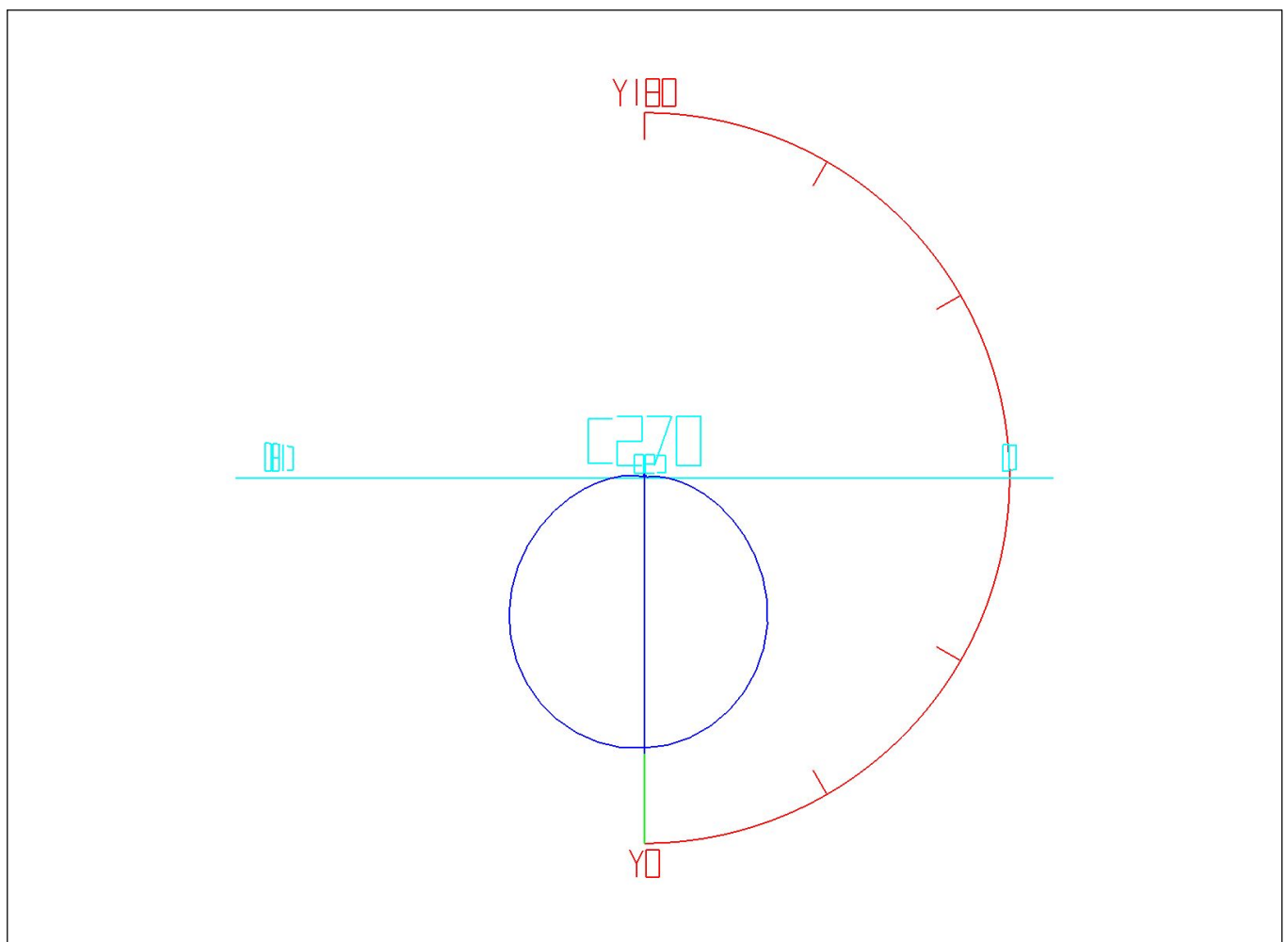
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3D Light Intensity Distribution Modal

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

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

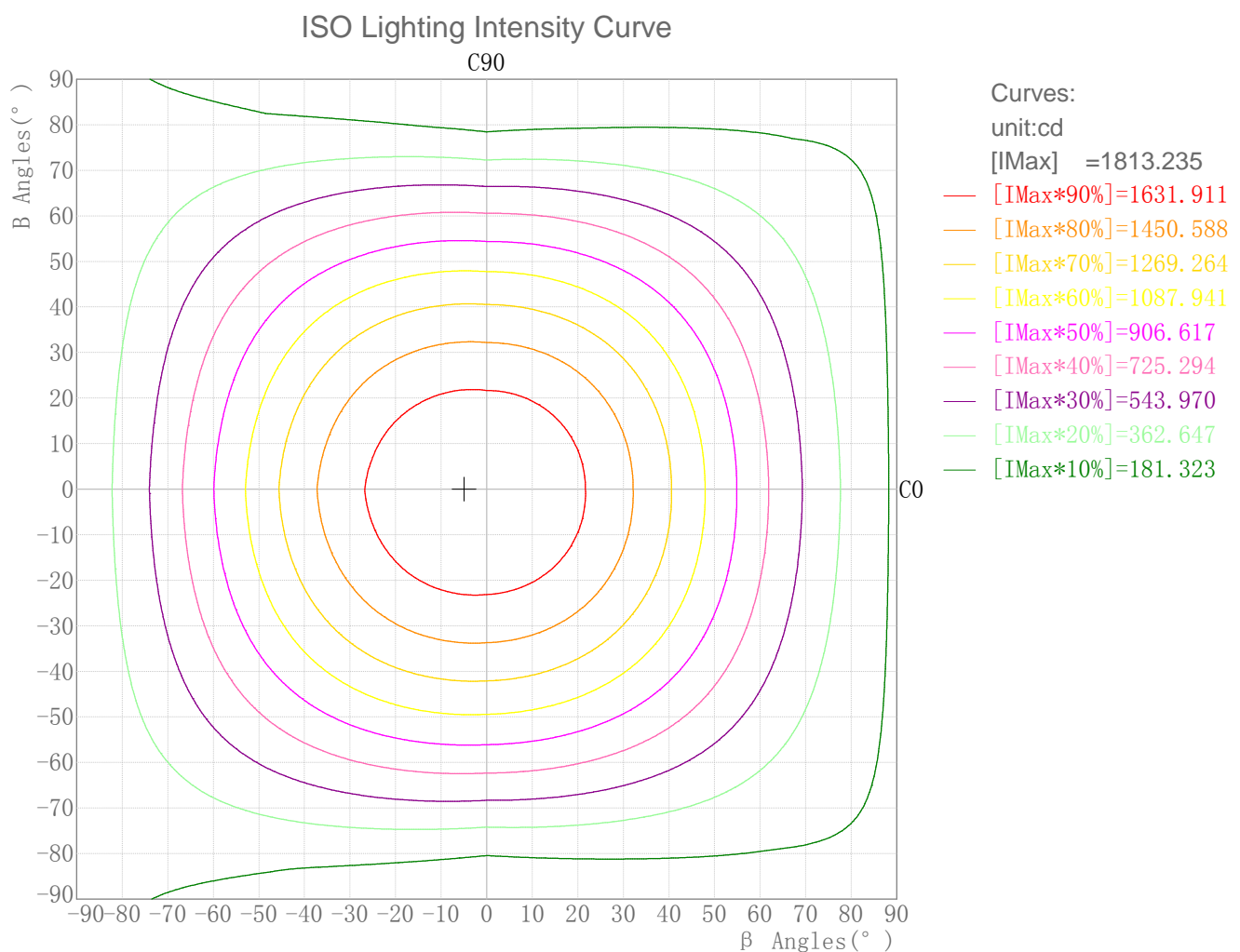
Zone (y)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	43.12	43.12	0.78	0.78
5.0-10.0	127.78	170.89	2.32	3.11
10.0-15.0	208.02	378.91	3.78	6.89
15.0-20.0	281.07	659.98	5.11	12.00
20.0-25.0	344.47	1004.45	6.26	18.26
25.0-30.0	396.16	1400.61	7.20	25.46
30.0-35.0	434.49	1835.09	7.90	33.36
35.0-40.0	458.29	2293.38	8.33	41.69
40.0-45.0	466.88	2760.26	8.49	50.17
45.0-50.0	460.12	3220.38	8.36	58.54
50.0-55.0	438.54	3658.92	7.97	66.51
55.0-60.0	403.38	4062.30	7.33	73.84
60.0-65.0	356.52	4418.82	6.48	80.32
65.0-70.0	300.44	4719.26	5.46	85.78
70.0-75.0	238.22	4957.48	4.33	90.11
75.0-80.0	174.24	5131.71	3.17	93.28
80.0-85.0	115.05	5246.76	2.09	95.37
85.0-90.0	70.77	5317.53	1.29	96.66
90.0-95.0	45.53	5363.06	0.83	97.49
95.0-100.0	30.98	5394.04	0.56	98.05
100.0-105.0	20.46	5414.50	0.37	98.42
105.0-110.0	13.29	5427.79	0.24	98.66
110.0-115.0	9.08	5436.87	0.17	98.83
115.0-120.0	7.17	5444.04	0.13	98.96
120.0-125.0	6.68	5450.72	0.12	99.08
125.0-130.0	6.67	5457.38	0.12	99.20
130.0-135.0	6.63	5464.01	0.12	99.32
135.0-140.0	6.49	5470.50	0.12	99.44
140.0-145.0	6.22	5476.72	0.11	99.55
145.0-150.0	5.82	5482.54	0.11	99.66
150.0-155.0	5.27	5487.81	0.10	99.75
155.0-160.0	4.58	5492.40	0.08	99.84
160.0-165.0	3.76	5496.15	0.07	99.91
165.0-170.0	2.81	5498.96	0.05	99.96
170.0-175.0	1.75	5500.71	0.03	99.99
175.0-180.0	0.60	5501.30	0.01	100.00

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Rectangle ISO Lighting Intensity Diagram

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17



Maximum Light Intensity(cd): 1813.23

Maximum Cand.@Angle: H=-5.0°,V=0.0°

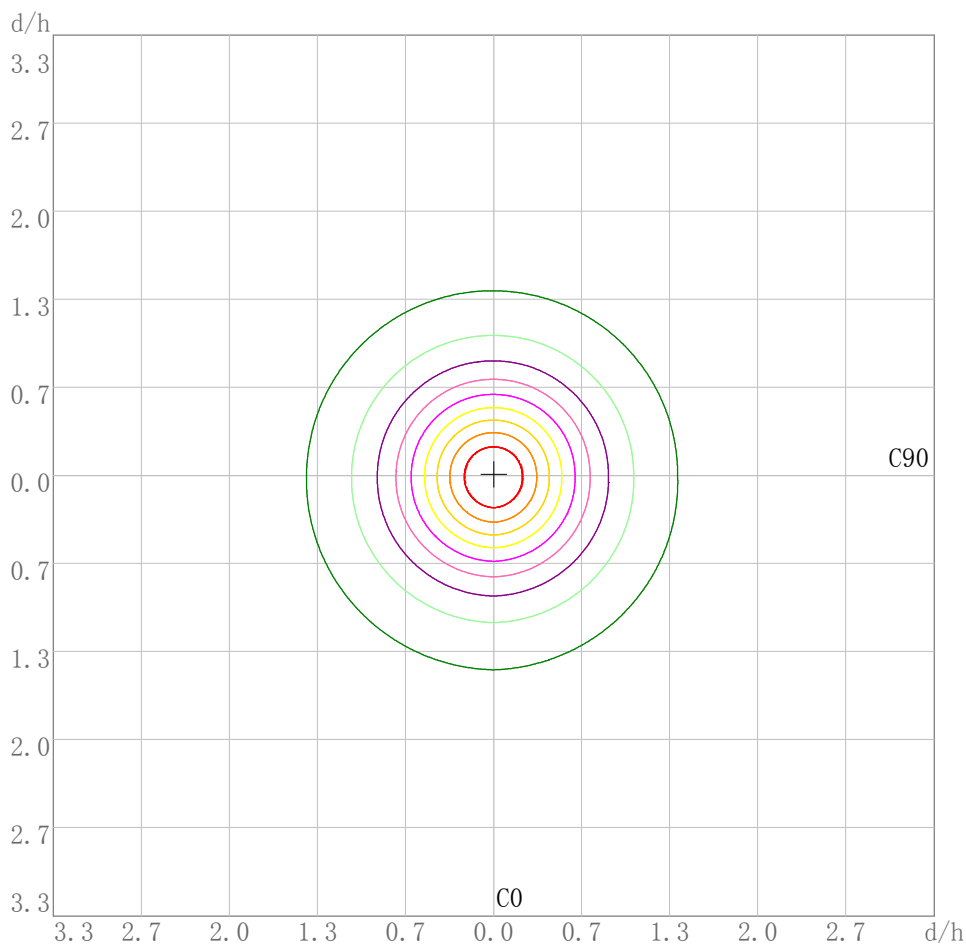
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Plane ISO-Illuminance Diagram

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

Plane ISO-Illuminance Curve



- Curves:
unit:lx
[EMax] =200.962
- [EMax*90%]=180.866
 - [EMax*80%]=160.770
 - [EMax*70%]=140.673
 - [EMax*60%]=120.577
 - [EMax*50%]=100.481
 - [EMax*40%]=80.385
 - [EMax*30%]=60.289
 - [EMax*20%]=40.192
 - [EMax*10%]=20.096

Working Plane Luminaire Mounting Height(m): 3.00

Working Plane Maximum Illuminance(lx): 200.96

Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

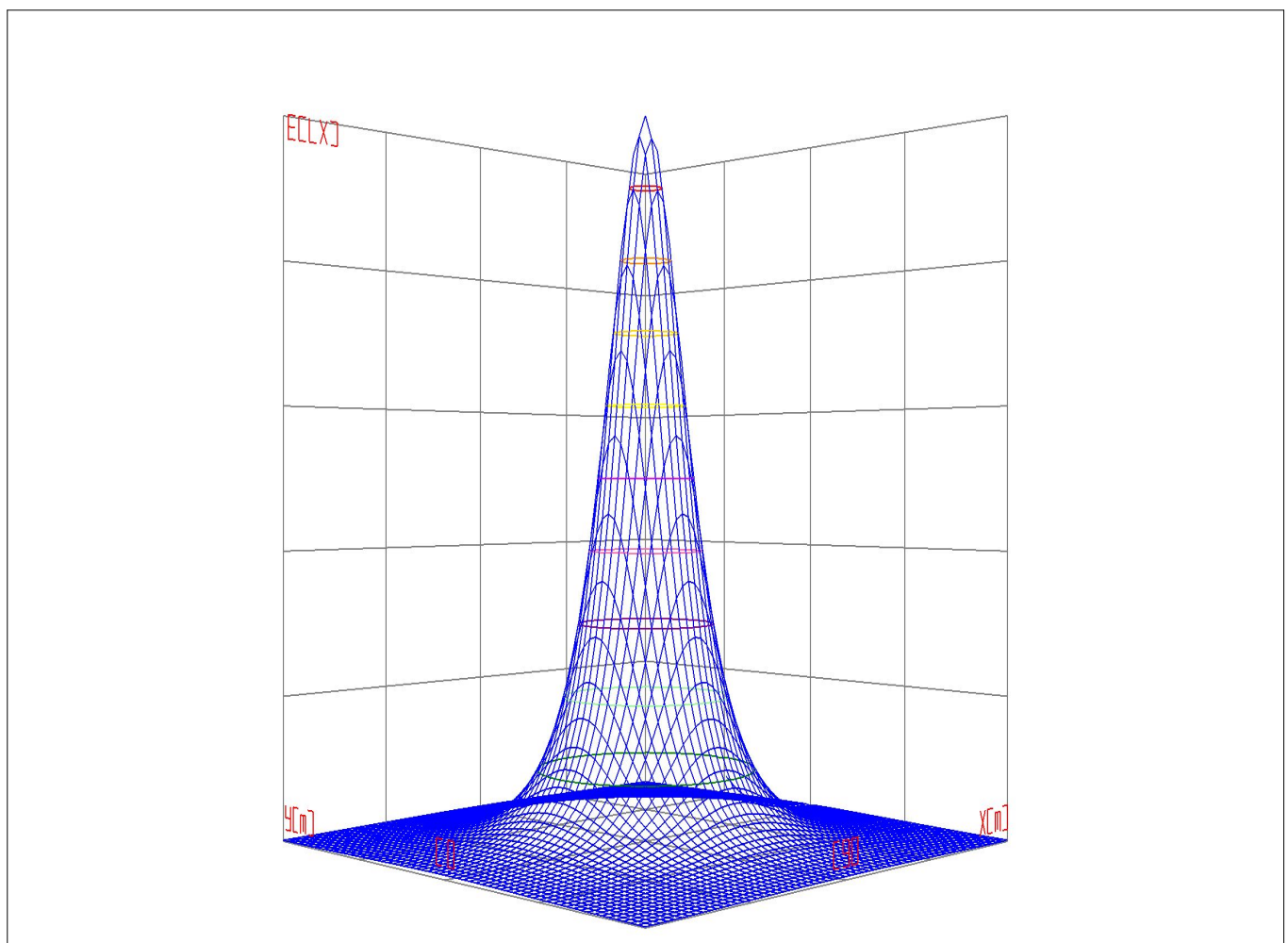
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3D Plane ISO Illuminance Diagram

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

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

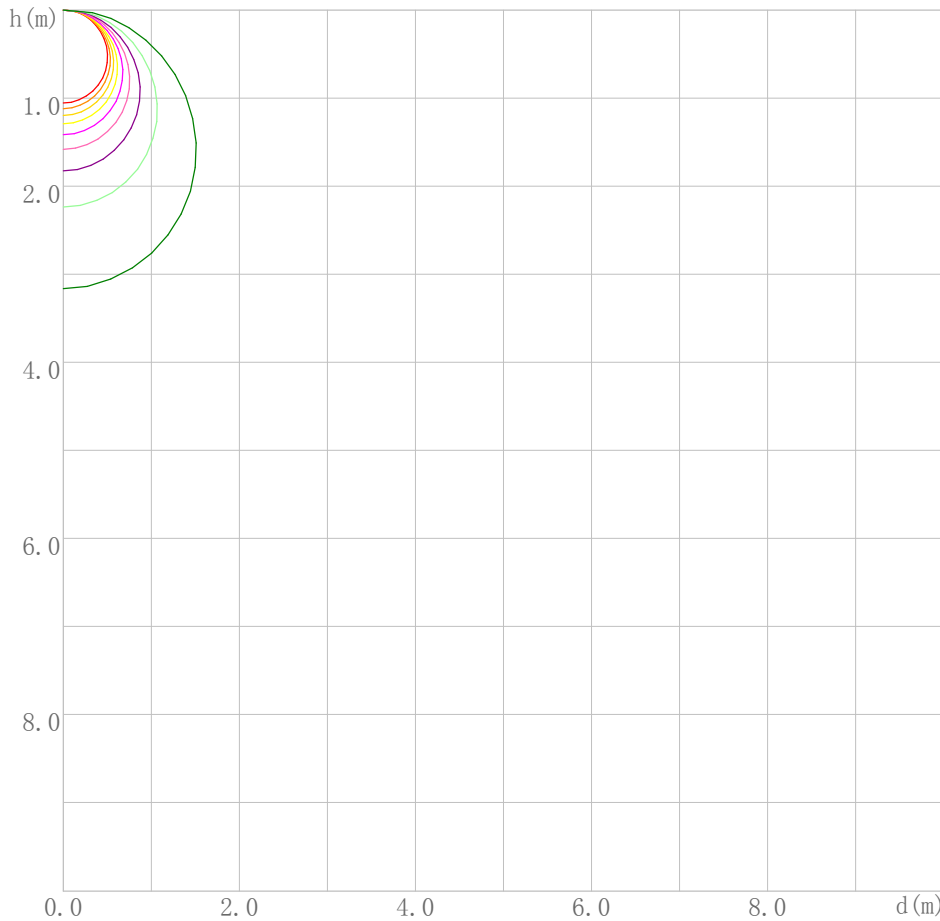
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Space ISO Illuminance Diagram

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

Space ISO Illuminance Curve



- Curves:
unit:lx
[EMax] =1808.379
- [EMax*90%]=1627.541
 - [EMax*80%]=1446.703
 - [EMax*70%]=1265.865
 - [EMax*60%]=1085.027
 - [EMax*50%]=904.190
 - [EMax*40%]=723.352
 - [EMax*30%]=542.514
 - [EMax*20%]=361.676
 - [EMax*10%]=180.838

Space Plane Maximum Illuminance and @Angle:1808.38,0.0deg
Plane Maximum Lighting Intensity and @Angle:1808.379cd,0deg

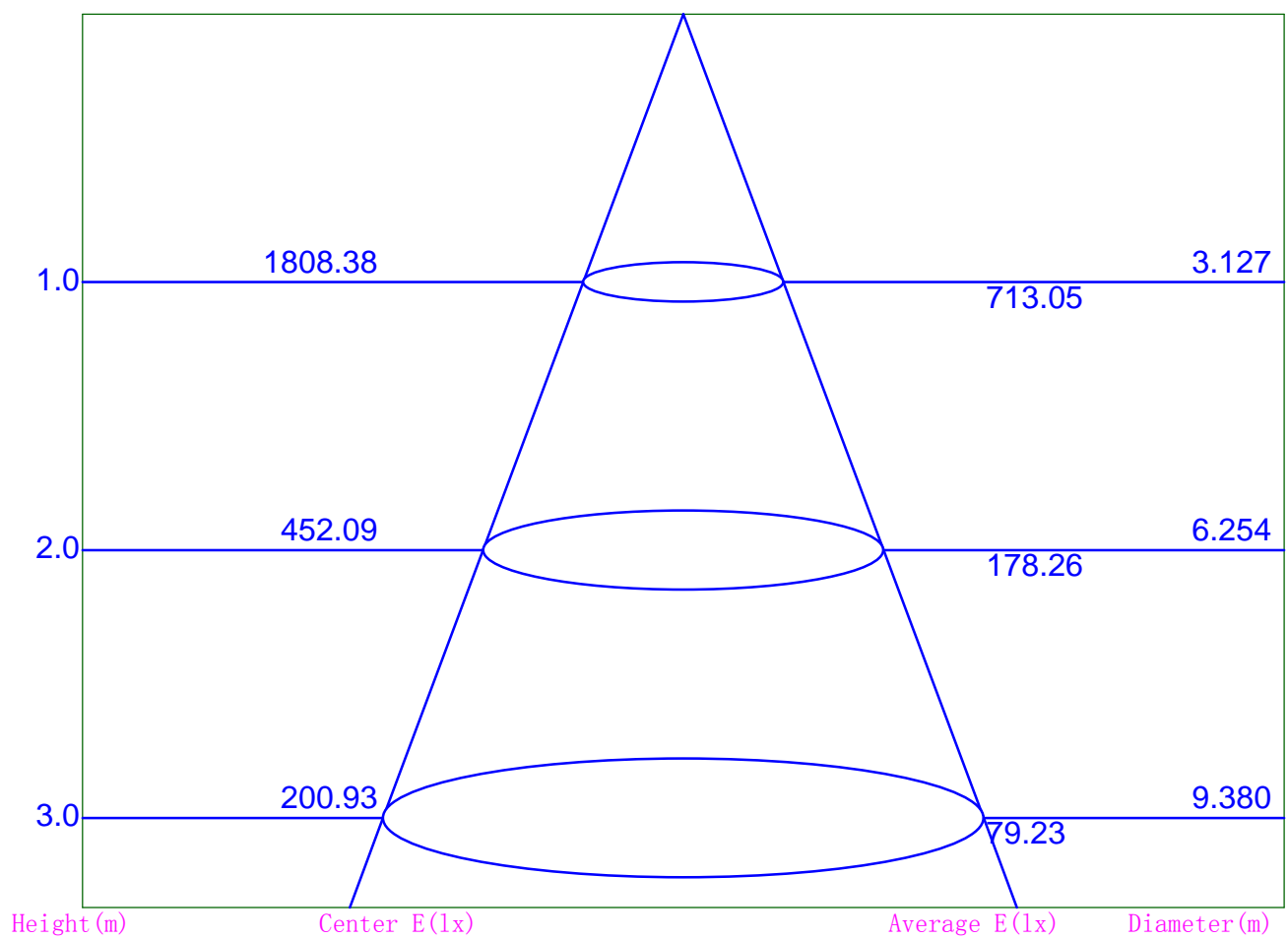
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Illuminance-Distance Diagram

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

Illuminance-Distance Curve



Beam Angle:114.8

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Indoor Luminance Limiting Curves

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

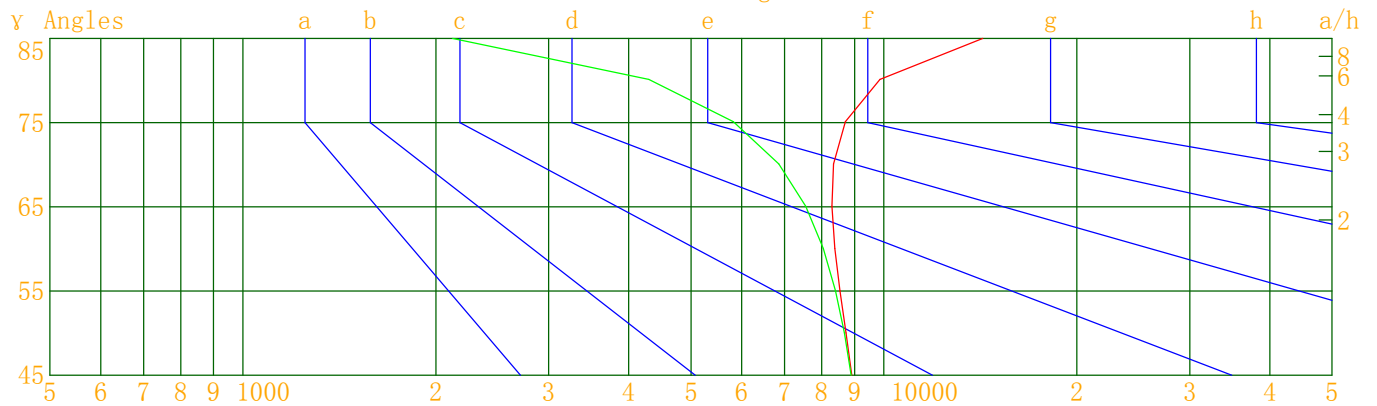
Glare Grade Table

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	8914	8732	8543	8384	8294	8346	8704	9863	14258
C90	8893	8675	8401	8041	7549	6853	5826	4296	2125

Luminance Limiting Curve



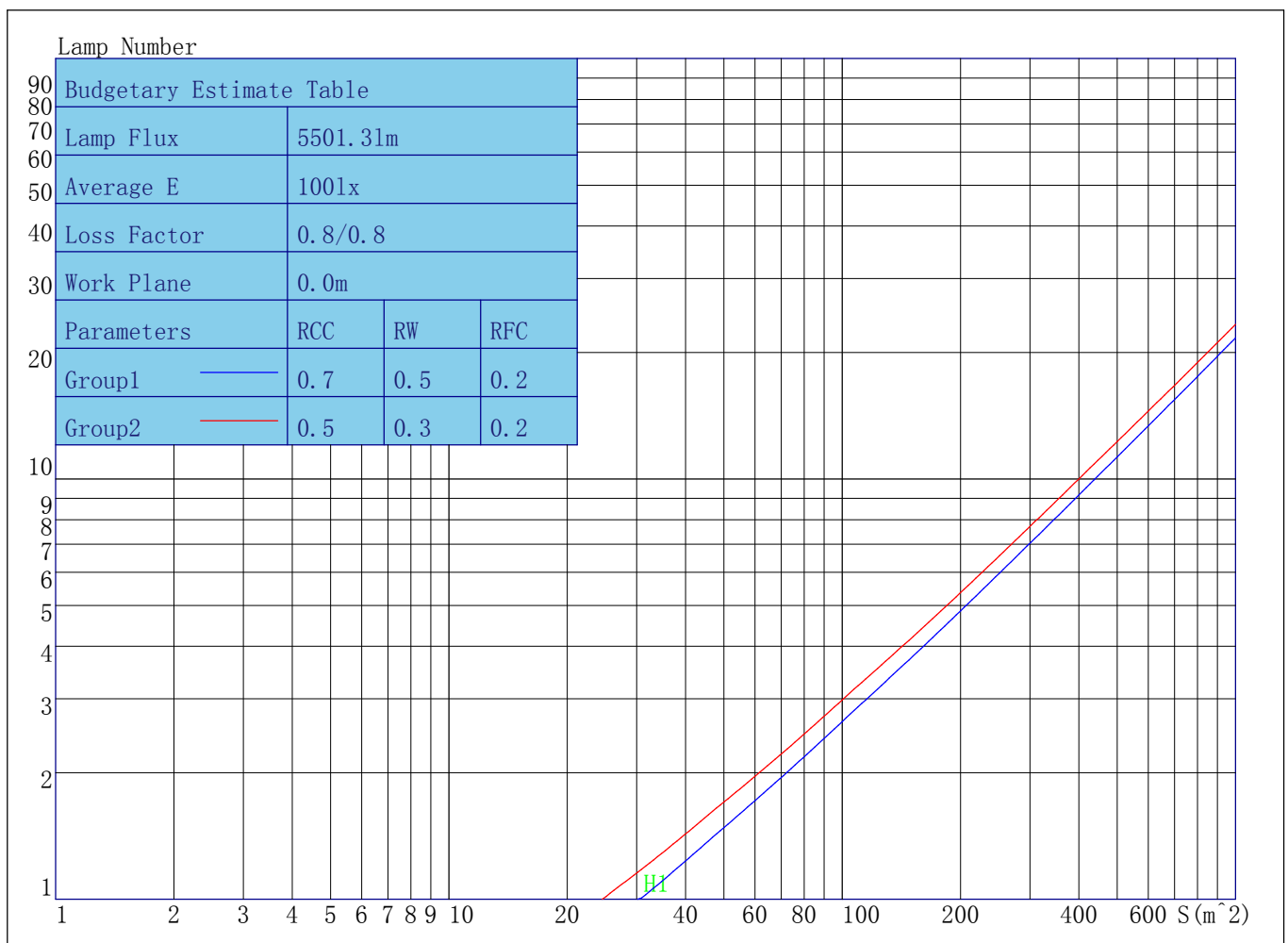
Luminous Size: Length(m)=1.500 Width(m)=0.080 Height(m)=0.043 Area(m^2)=0.184500
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17



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: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
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Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	93	104	100	95	92	95	91	88	90	87	85	86	84	82	79
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	89	78	69	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	49	43	53	47	43	40
6	69	55	46	40	66	54	45	39	52	44	39	50	43	38	48	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	37	31	43	36	30	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	40	32	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	35	29	25	34	29	24	23

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Unified Glare Rating Table

Lum. Name: SLIMBATTEN50W6K	Lum. Catalog: LED BATTEN	Test ID:
Lamp Name: 6000K	Lamp Catalog: SMD2835	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2019/08/17

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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	17.4	21.1	18.3	21.9	22.7	17.3	20.9	18.2	21.7	22.5
Y=3H	22.3	25.9	23.2	26.7	27.5	21.5	25.1	22.4	25.9	26.7
Y=4H	25.5	28.6	26.4	29.5	30.3	24.0	27.1	24.9	28.0	28.8
Y=6H	28.0	31.1	28.9	31.9	32.7	25.2	28.3	26.1	29.1	29.9
Y=8H	29.3	32.3	30.2	33.2	34.0	25.6	28.6	26.5	29.4	30.2
Y=12H	30.7	33.7	31.6	34.5	35.3	25.7	28.7	26.6	29.5	30.3
X=4H Y=2H	18.9	22.1	19.8	22.9	23.7	19.0	22.2	19.9	23.0	23.8
Y=3H	24.0	27.2	24.9	28.0	28.8	23.5	26.6	24.4	27.5	28.3
Y=4H	25.8	27.7	26.9	28.8	29.8	24.6	26.5	25.7	27.6	28.6
Y=6H	28.9	30.6	30.1	31.7	32.7	26.4	28.1	27.5	29.2	30.2
Y=8H	30.5	32.2	31.7	33.3	34.3	27.0	28.6	28.1	29.7	30.7
Y=12H	31.4	32.8	32.7	34.0	35.1	26.4	27.8	27.7	29.0	30.1
X=8H Y=4H	26.2	27.9	27.3	28.9	29.9	25.3	26.9	26.5	28.0	29.0
Y=6H	28.7	29.9	30.0	31.1	32.2	26.6	27.8	27.9	29.0	30.1
Y=8H	30.1	31.1	31.5	32.3	33.5	27.0	27.9	28.3	29.2	30.4
Y=12H	32.3	33.1	33.6	34.4	35.6	27.6	28.5	28.9	29.7	30.9
X=12H Y=4H	25.3	26.7	26.6	27.9	29.0	24.5	25.9	25.8	27.1	28.2
Y=6H	28.3	29.3	29.6	30.5	31.7	26.3	27.3	27.7	28.6	29.7
Y=8H	30.2	31.1	31.6	32.4	33.5	27.3	28.2	28.6	29.4	30.6
Variations with the observer position at spacings										
S=1.0H	2.4/-1.1					2.5/-0.9				
S=1.5H	-1.1/-19.4					-0.9/-18.2				
S=2.0H	-1.1/-19.4					-0.9/-18.2				

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Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
Y 0.0	1808.38	1808.38	1808.38	1808.38
Y 5.0	1796.86	1788.87	1813.23	1793.80
Y 10.0	1765.51	1760.96	1797.48	1770.64
Y 15.0	1718.72	1716.71	1766.03	1731.13
Y 20.0	1657.16	1656.74	1719.40	1675.84
Y 25.0	1581.85	1582.04	1658.58	1605.83
Y 30.0	1493.49	1494.24	1583.52	1522.12
Y 35.0	1393.55	1393.85	1495.48	1425.89
Y 40.0	1283.06	1282.09	1394.91	1318.55
Y 45.0	1162.98	1160.17	1283.67	1200.67
Y 50.0	1035.53	1028.81	1163.01	1073.46
Y 55.0	904.04	889.02	1035.72	937.96
Y 60.0	773.38	741.74	903.69	794.88
Y 65.0	646.73	588.61	771.51	645.72
Y 70.0	526.64	432.45	642.48	492.01
Y 75.0	415.63	278.18	520.09	338.02
Y 80.0	316.00	137.63	407.35	191.85
Y 85.0	229.28	34.17	306.36	70.96
Y 90.0	155.43	6.60	219.43	11.66
Y 95.0	100.75	7.81	152.85	10.54
Y 100.0	62.47	9.05	101.73	10.89
Y 105.0	36.03	10.06	64.07	11.52
Y 110.0	19.89	11.23	38.24	12.35
Y 115.0	13.89	12.28	22.31	13.22
Y 120.0	14.77	13.36	14.07	14.10
Y 125.0	15.77	14.32	14.10	15.05
Y 130.0	16.75	15.42	15.28	15.98
Y 135.0	17.77	16.50	16.48	17.05
Y 140.0	18.74	17.74	17.65	18.25
Y 145.0	19.71	18.92	18.71	19.45
Y 150.0	20.60	20.20	19.82	20.63
Y 155.0	21.52	21.30	20.82	21.75
Y 160.0	22.41	22.36	21.89	22.76
Y 165.0	23.16	23.24	22.88	23.57
Y 170.0	24.08	24.06	24.04	24.24
Y 175.0	24.88	24.54	24.94	24.65
Y 180.0	25.14	25.14	25.14	25.14
