

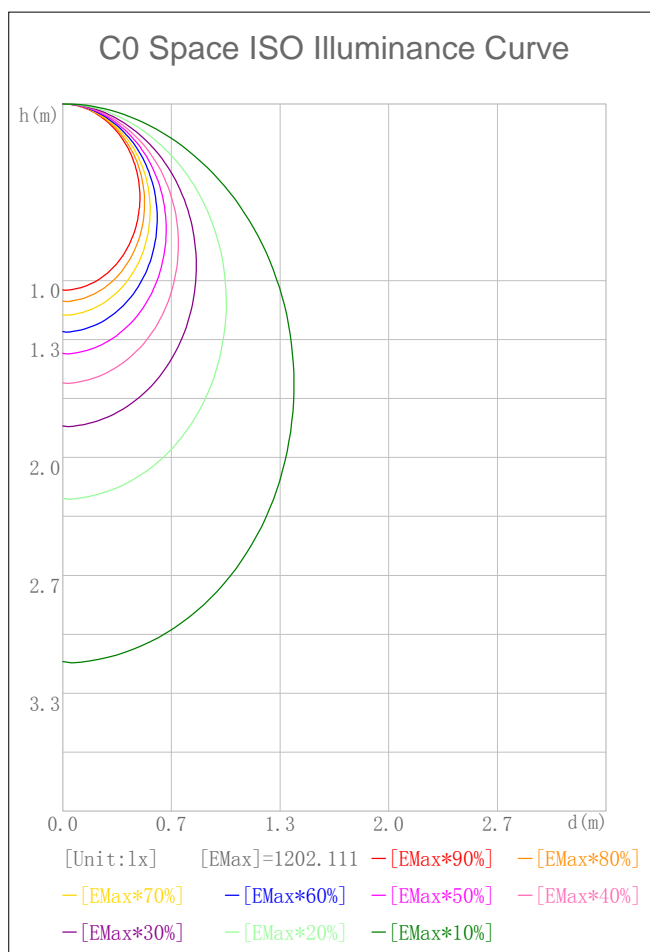
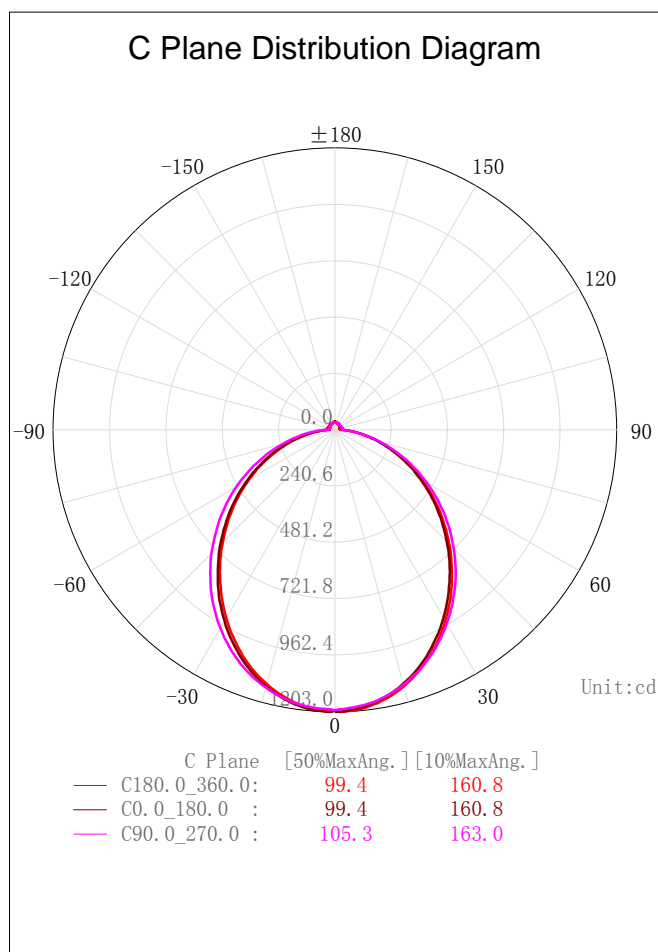
Indoor Luminaire Photometric Data

Description Information

Luminary Name: SPEND08		Lum. Catalog:	Test ID: 001
Lamp Name:		Lamp Catalog: LED	Test Date: 2018/12/24
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency (Hz):		Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.065m*1.500m*0.000m		Lum. Area (m2): 0.097	Lum. W (kg): 1.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity (%): 50.0

Character Parameter

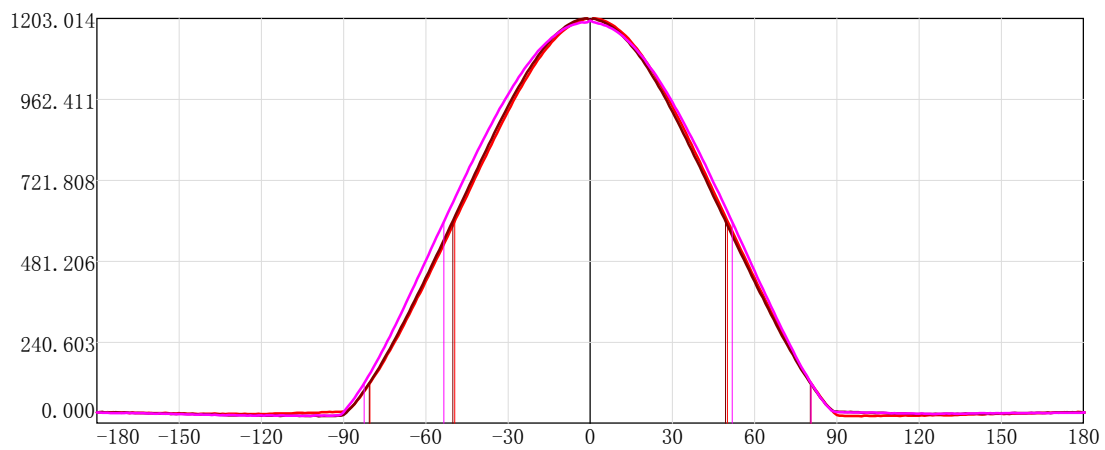
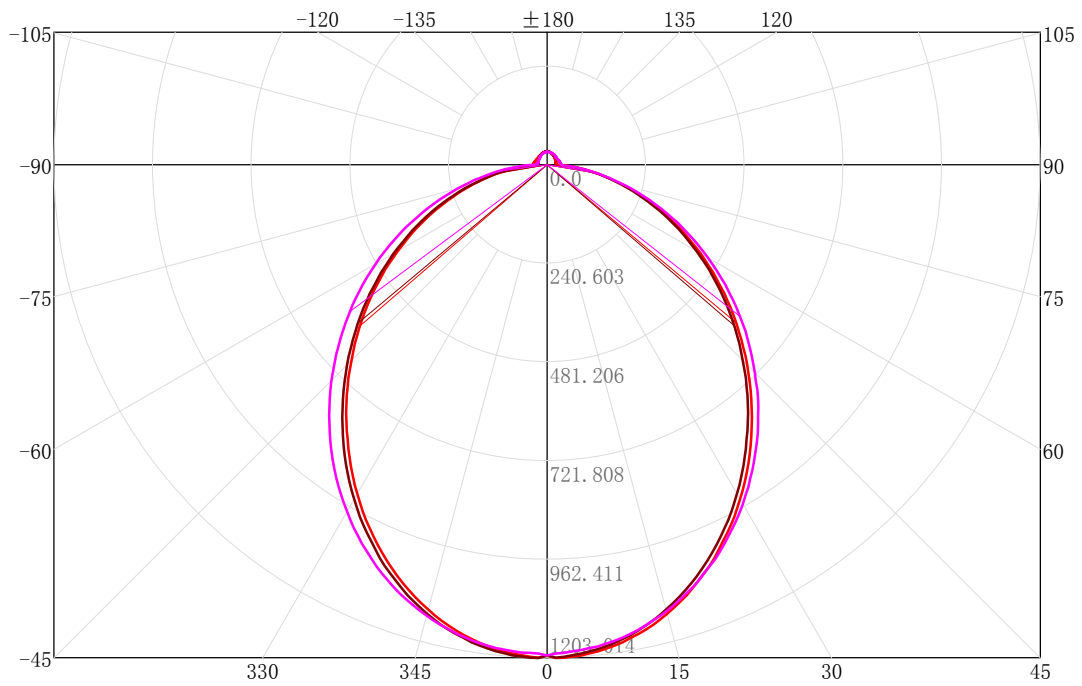
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 3284.450	Luminary Flux(lm): 3284.453	Field Angle(10%Imax): 160.8(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 3113.511lm 94.80%	
Rated Voltage(V):	Luminary EER(lm/W): 86.707	Up Lumens&Percent: 170.942lm 5.20%	
Tested Power(W): 37.880	Max. Candela(cd): 1203.014	S/MH: C0_a180=1.168 C90_270=1.203	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 239.9, 0.167, 0.945	Beam Angle(50%Imax): 99.4(°)	ErP Φuse(120°): 2465.765lm	
Lamp Size (W*L*H): 0.065m*1.500m*0.000m	Left=-49.3°, Right=50.1°	IRF (%): 118.801	



2D Plane Light Intensity Distribution Curve

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

C Plane Distribution Diagram

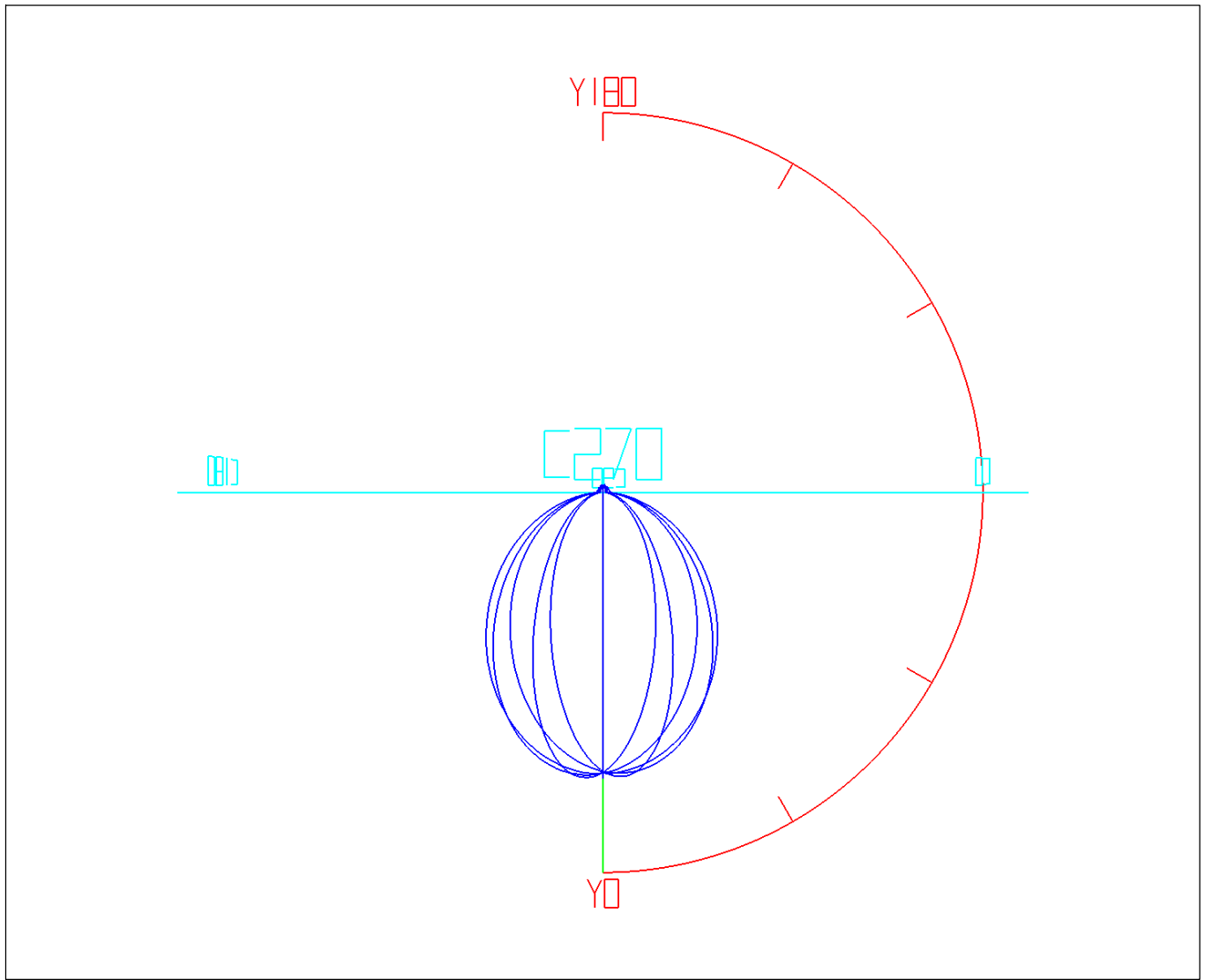


	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C180.0_360.0 :	99.4	160.8	
—	C0.0_180.0 :	99.4	160.8	
—	C90.0_270.0 :	105.3	163.0	

3D Light Intensity Distribution Modal

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

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
Photometric Filename: SPEND08.IES

Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	1.14	1.14	0.03	0.03	47.0-48.0	53.47	1882.01	1.63	57.30
1.0-2.0	3.43	4.57	0.10	0.14	48.0-49.0	52.89	1934.89	1.61	58.91
2.0-3.0	5.71	10.28	0.17	0.31	49.0-50.0	52.25	1987.14	1.59	60.50
3.0-4.0	7.98	18.26	0.24	0.56	50.0-51.0	51.56	2038.70	1.57	62.07
4.0-5.0	10.23	28.49	0.31	0.87	51.0-52.0	50.80	2089.50	1.55	63.62
5.0-6.0	12.47	40.96	0.38	1.25	52.0-53.0	49.98	2139.48	1.52	65.14
6.0-7.0	14.68	55.64	0.45	1.69	53.0-54.0	49.11	2188.59	1.50	66.63
7.0-8.0	16.87	72.50	0.51	2.21	54.0-55.0	48.18	2236.77	1.47	68.10
8.0-9.0	19.02	91.52	0.58	2.79	55.0-56.0	47.19	2283.96	1.44	69.54
9.0-10.0	21.14	112.66	0.64	3.43	56.0-57.0	46.18	2330.14	1.41	70.94
10.0-11.0	23.22	135.89	0.71	4.14	57.0-58.0	45.12	2375.26	1.37	72.32
11.0-12.0	25.26	161.15	0.77	4.91	58.0-59.0	44.00	2419.26	1.34	73.66
12.0-13.0	27.26	188.41	0.83	5.74	59.0-60.0	42.83	2462.09	1.30	74.96
13.0-14.0	29.20	217.62	0.89	6.63	60.0-61.0	41.62	2503.71	1.27	76.23
14.0-15.0	31.10	248.72	0.95	7.57	61.0-62.0	40.37	2544.09	1.23	77.46
15.0-16.0	32.94	281.65	1.00	8.58	62.0-63.0	39.10	2583.19	1.19	78.65
16.0-17.0	34.72	316.37	1.06	9.63	63.0-64.0	37.82	2621.00	1.15	79.80
17.0-18.0	36.43	352.80	1.11	10.74	64.0-65.0	36.48	2657.48	1.11	80.91
18.0-19.0	38.09	390.90	1.16	11.90	65.0-66.0	35.12	2692.60	1.07	81.98
19.0-20.0	39.68	430.58	1.21	13.11	66.0-67.0	33.72	2726.31	1.03	83.01
20.0-21.0	41.20	471.78	1.25	14.36	67.0-68.0	32.29	2758.61	0.98	83.99
21.0-22.0	42.65	514.43	1.30	15.66	68.0-69.0	30.88	2789.49	0.94	84.93
22.0-23.0	44.04	558.47	1.34	17.00	69.0-70.0	29.43	2818.92	0.90	85.83
23.0-24.0	45.34	603.81	1.38	18.38	70.0-71.0	27.97	2846.88	0.85	86.68
24.0-25.0	46.57	650.38	1.42	19.80	71.0-72.0	26.48	2873.36	0.81	87.48
25.0-26.0	47.73	698.12	1.45	21.26	72.0-73.0	24.99	2898.35	0.76	88.24
26.0-27.0	48.81	746.93	1.49	22.74	73.0-74.0	23.53	2921.88	0.72	88.96
27.0-28.0	49.82	796.75	1.52	24.26	74.0-75.0	22.06	2943.94	0.67	89.63
28.0-29.0	50.74	847.49	1.54	25.80	75.0-76.0	20.57	2964.51	0.63	90.26
29.0-30.0	51.59	899.07	1.57	27.37	76.0-77.0	19.09	2983.61	0.58	90.84
30.0-31.0	52.35	951.43	1.59	28.97	77.0-78.0	17.67	3001.27	0.54	91.38
31.0-32.0	53.03	1004.46	1.61	30.58	78.0-79.0	16.28	3017.55	0.50	91.87
32.0-33.0	53.63	1058.09	1.63	32.22	79.0-80.0	14.89	3032.45	0.45	92.33
33.0-34.0	54.16	1112.25	1.65	33.86	80.0-81.0	13.53	3045.98	0.41	92.74
34.0-35.0	54.59	1166.85	1.66	35.53	81.0-82.0	12.20	3058.18	0.37	93.11
35.0-36.0	54.95	1221.79	1.67	37.20	82.0-83.0	10.89	3069.07	0.33	93.44
36.0-37.0	55.24	1277.03	1.68	38.88	83.0-84.0	9.60	3078.67	0.29	93.73
37.0-38.0	55.46	1332.49	1.69	40.57	84.0-85.0	8.39	3087.06	0.26	93.99
38.0-39.0	55.58	1388.07	1.69	42.26	85.0-86.0	7.22	3094.28	0.22	94.21
39.0-40.0	55.63	1443.70	1.69	43.96	86.0-87.0	6.12	3100.40	0.19	94.40
40.0-41.0	55.62	1499.32	1.69	45.65	87.0-88.0	5.11	3105.51	0.16	94.55
41.0-42.0	55.52	1554.84	1.69	47.34	88.0-89.0	4.29	3109.80	0.13	94.68
42.0-43.0	55.36	1610.20	1.69	49.03	89.0-90.0	3.72	3113.51	0.11	94.80
43.0-44.0	55.13	1665.33	1.68	50.70	90.0-91.0	3.33	3116.84	0.10	94.90
44.0-45.0	54.81	1720.14	1.67	52.37	91.0-92.0	3.13	3119.96	0.10	94.99
45.0-46.0	54.42	1774.56	1.66	54.03	92.0-93.0	3.06	3123.03	0.09	95.09
46.0-47.0	53.97	1828.54	1.64	55.67	93.0-94.0	3.04	3126.07	0.09	95.18

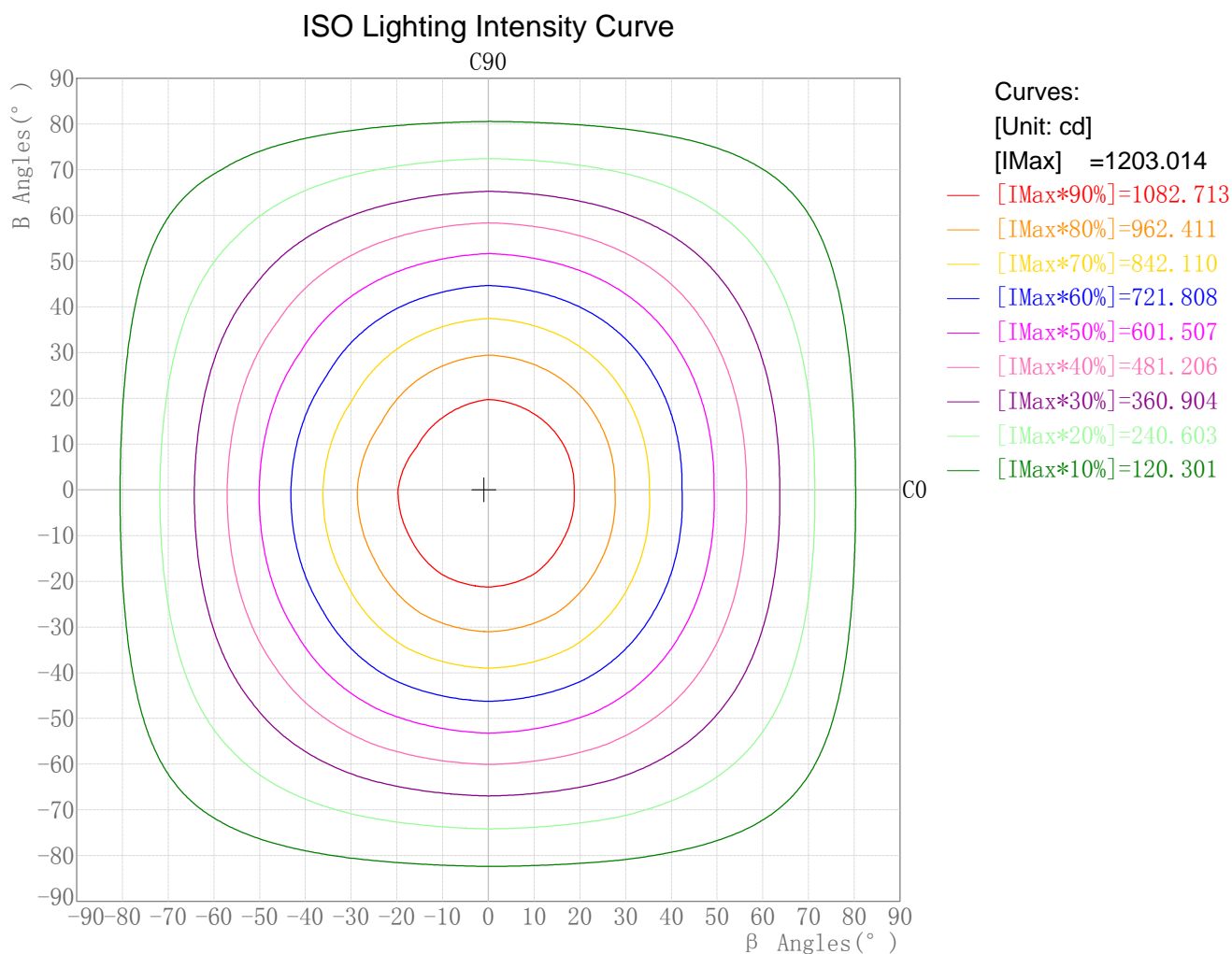
IES Indoor Report
Photometric Filename: SPEND08.IES

Zonal Flux Tabulation - (Cont.)

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	3.02	3129.09	0.09	95.27	141.0-142.0	1.89	3245.37	0.06	98.81
95.0-96.0	3.00	3132.09	0.09	95.36	142.0-143.0	1.85	3247.21	0.06	98.87
96.0-97.0	2.99	3135.08	0.09	95.45	143.0-144.0	1.81	3249.03	0.06	98.92
97.0-98.0	2.96	3138.05	0.09	95.54	144.0-145.0	1.78	3250.81	0.05	98.98
98.0-99.0	2.94	3140.98	0.09	95.63	145.0-146.0	1.75	3252.56	0.05	99.03
99.0-100.0	2.92	3143.90	0.09	95.72	146.0-147.0	1.71	3254.27	0.05	99.08
100.0-101.0	2.89	3146.79	0.09	95.81	147.0-148.0	1.67	3255.93	0.05	99.13
101.0-102.0	2.86	3149.65	0.09	95.90	148.0-149.0	1.63	3257.56	0.05	99.18
102.0-103.0	2.85	3152.50	0.09	95.98	149.0-150.0	1.60	3259.16	0.05	99.23
103.0-104.0	2.82	3155.32	0.09	96.07	150.0-151.0	1.56	3260.72	0.05	99.28
104.0-105.0	2.81	3158.13	0.09	96.15	151.0-152.0	1.52	3262.23	0.05	99.32
105.0-106.0	2.79	3160.92	0.08	96.24	152.0-153.0	1.47	3263.70	0.04	99.37
106.0-107.0	2.77	3163.69	0.08	96.32	153.0-154.0	1.43	3265.14	0.04	99.41
107.0-108.0	2.74	3166.43	0.08	96.41	154.0-155.0	1.39	3266.53	0.04	99.45
108.0-109.0	2.72	3169.14	0.08	96.49	155.0-156.0	1.34	3267.87	0.04	99.50
109.0-110.0	2.70	3171.85	0.08	96.57	156.0-157.0	1.29	3269.17	0.04	99.53
110.0-111.0	2.68	3174.52	0.08	96.65	157.0-158.0	1.24	3270.41	0.04	99.57
111.0-112.0	2.65	3177.17	0.08	96.73	158.0-159.0	1.20	3271.60	0.04	99.61
112.0-113.0	2.62	3179.80	0.08	96.81	159.0-160.0	1.16	3272.76	0.04	99.64
113.0-114.0	2.60	3182.40	0.08	96.89	160.0-161.0	1.10	3273.86	0.03	99.68
114.0-115.0	2.59	3184.99	0.08	96.97	161.0-162.0	1.05	3274.91	0.03	99.71
115.0-116.0	2.56	3187.55	0.08	97.05	162.0-163.0	1.00	3275.91	0.03	99.74
116.0-117.0	2.53	3190.08	0.08	97.13	163.0-164.0	0.95	3276.87	0.03	99.77
117.0-118.0	2.51	3192.59	0.08	97.20	164.0-165.0	0.90	3277.77	0.03	99.80
118.0-119.0	2.47	3195.06	0.08	97.28	165.0-166.0	0.85	3278.62	0.03	99.82
119.0-120.0	2.45	3197.51	0.07	97.35	166.0-167.0	0.79	3279.41	0.02	99.85
120.0-121.0	2.45	3199.96	0.07	97.43	167.0-168.0	0.73	3280.14	0.02	99.87
121.0-122.0	2.42	3202.38	0.07	97.50	168.0-169.0	0.68	3280.82	0.02	99.89
122.0-123.0	2.38	3204.76	0.07	97.57	169.0-170.0	0.62	3281.44	0.02	99.91
123.0-124.0	2.38	3207.14	0.07	97.65	170.0-171.0	0.57	3282.01	0.02	99.93
124.0-125.0	2.34	3209.47	0.07	97.72	171.0-172.0	0.51	3282.51	0.02	99.94
125.0-126.0	2.30	3211.77	0.07	97.79	172.0-173.0	0.45	3282.96	0.01	99.95
126.0-127.0	2.29	3214.06	0.07	97.86	173.0-174.0	0.39	3283.36	0.01	99.97
127.0-128.0	2.26	3216.32	0.07	97.93	174.0-175.0	0.33	3283.69	0.01	99.98
128.0-129.0	2.23	3218.56	0.07	97.99	175.0-176.0	0.27	3283.96	0.01	99.99
129.0-130.0	2.21	3220.77	0.07	98.06	176.0-177.0	0.21	3284.18	0.01	99.99
130.0-131.0	2.19	3222.96	0.07	98.13	177.0-178.0	0.15	3284.33	0.00	100.00
131.0-132.0	2.17	3225.13	0.07	98.19	178.0-179.0	0.09	3284.42	0.00	100.00
132.0-133.0	2.15	3227.28	0.07	98.26	179.0-180.0	0.03	3284.45	0.00	100.00
133.0-134.0	2.12	3229.40	0.06	98.32					
134.0-135.0	2.10	3231.50	0.06	98.39					
135.0-136.0	2.07	3233.57	0.06	98.45					
136.0-137.0	2.04	3235.60	0.06	98.51					
137.0-138.0	2.01	3237.61	0.06	98.57					
138.0-139.0	1.99	3239.60	0.06	98.63					
139.0-140.0	1.95	3241.55	0.06	98.69					
140.0-141.0	1.92	3243.47	0.06	98.75					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2018/12/24

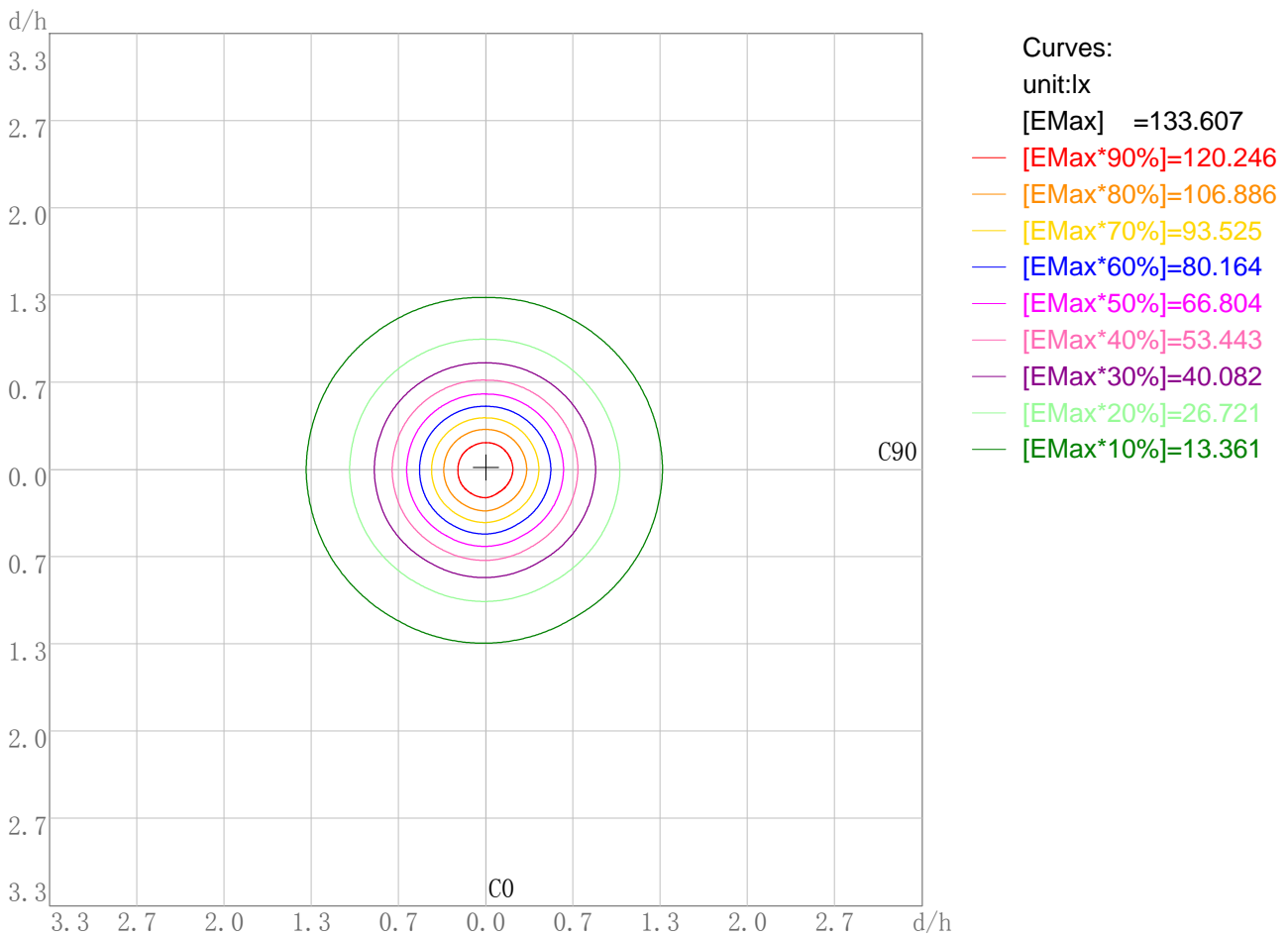


Maximum Light Intensity(cd): 1203.01
Maximum Cand.@Angle: H=-1.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2018/12/24

Plane ISO-Illuminance Curve

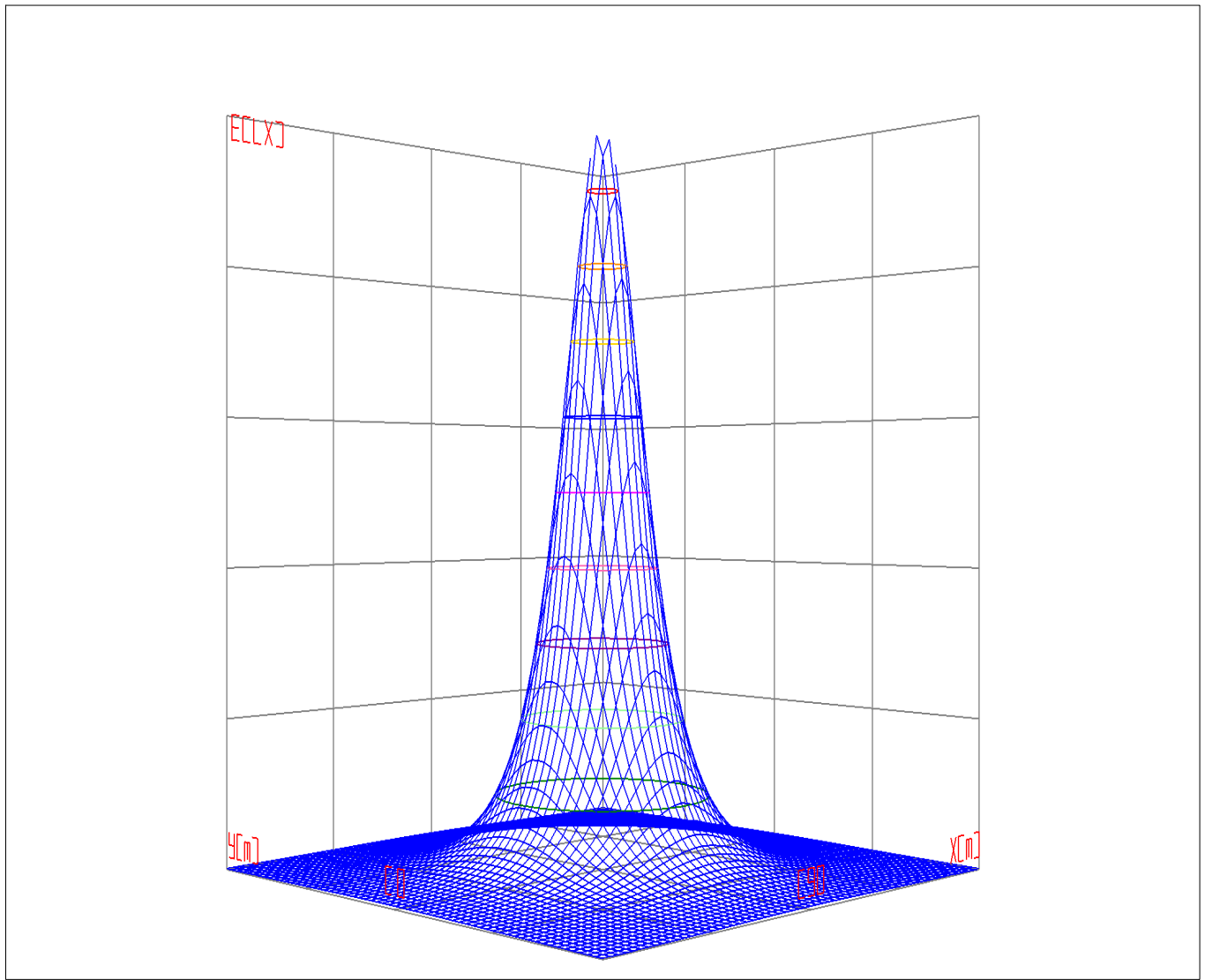


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 133.61
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

3D Plane Illuminance Modal

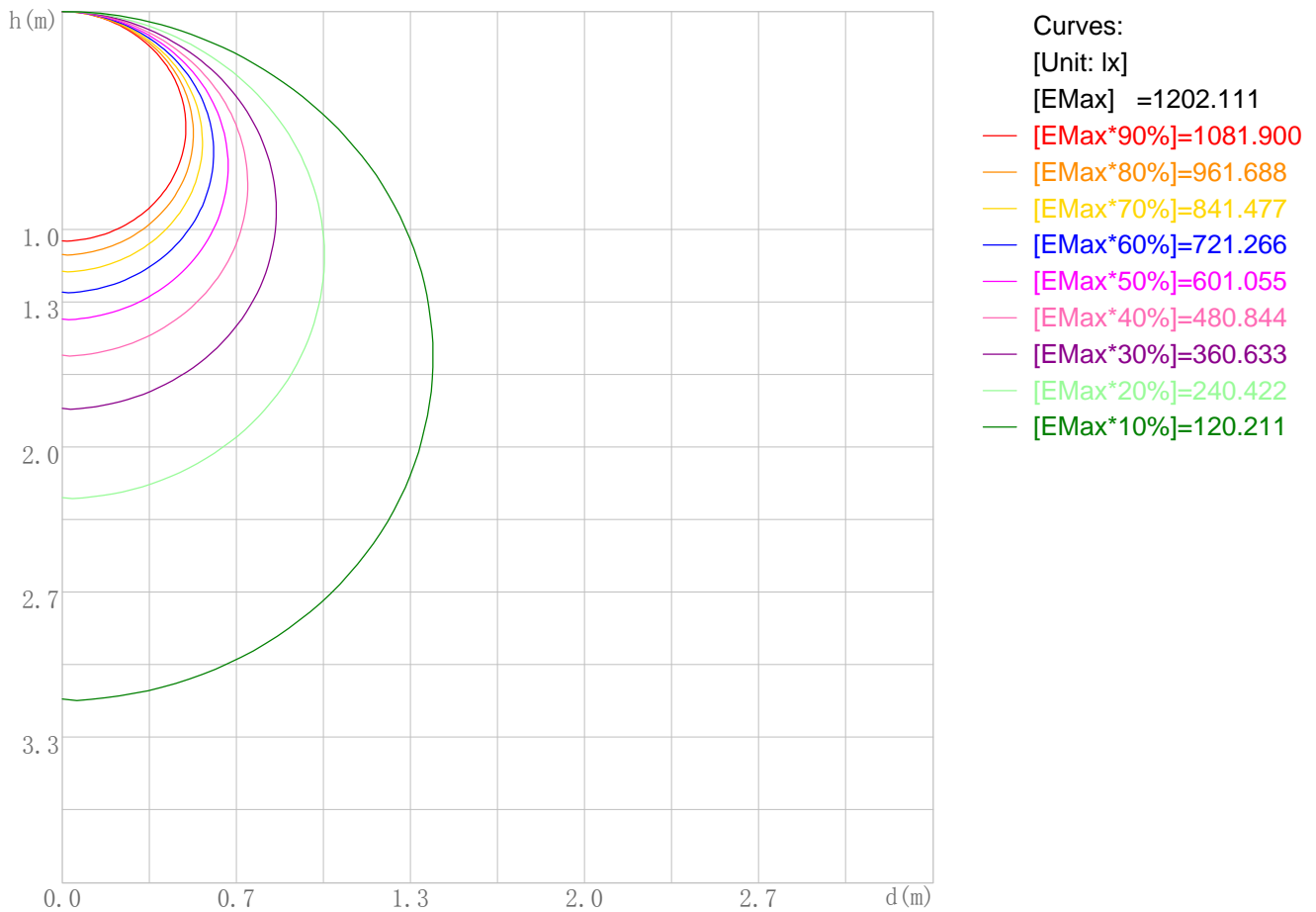


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2018/12/24

Space ISO Illuminance Curve

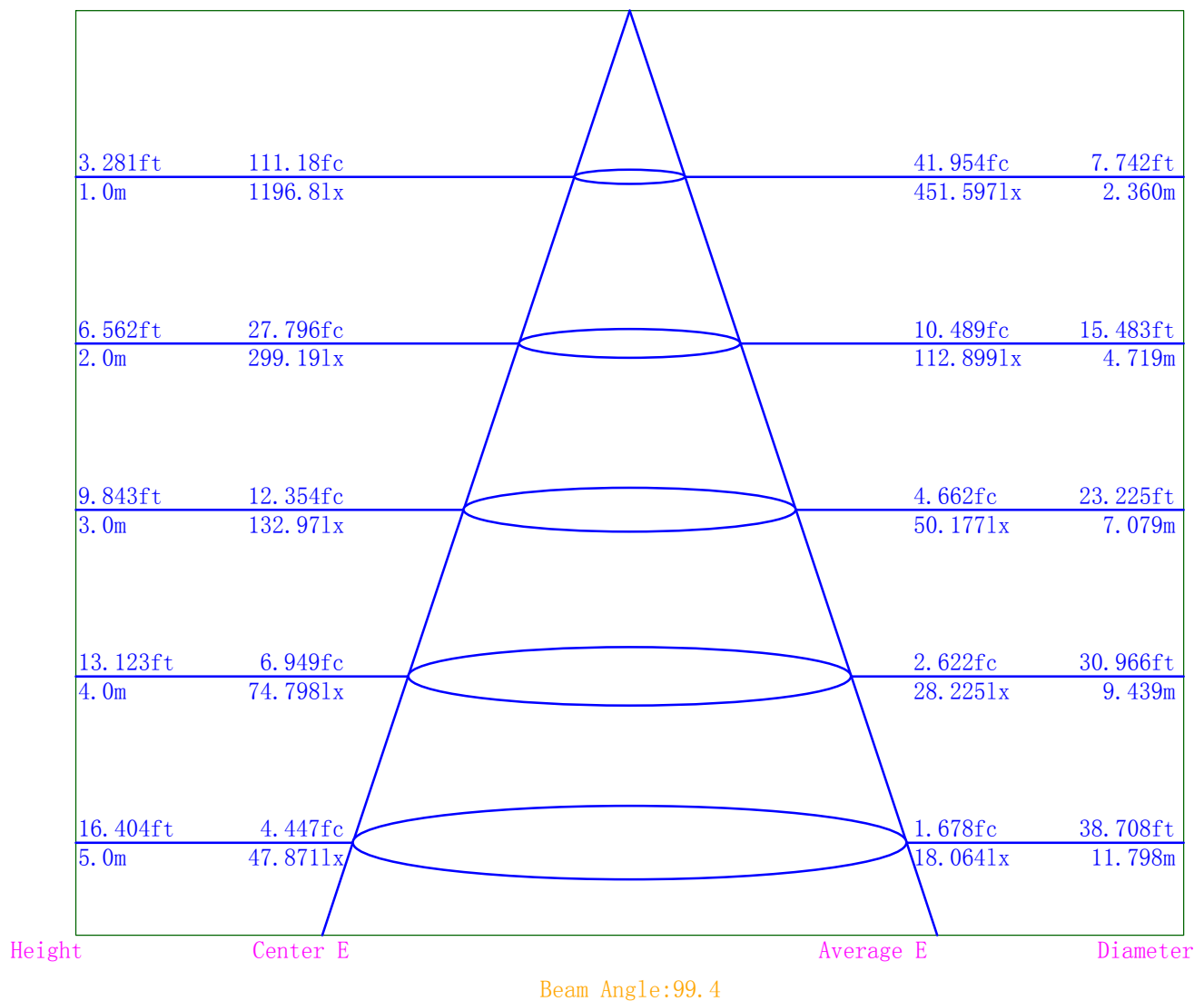


Space Plane Maximum Illuminance and @Angle:1202.11lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:1202.660cd,0deg

Illuminance-Distance Diagram

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

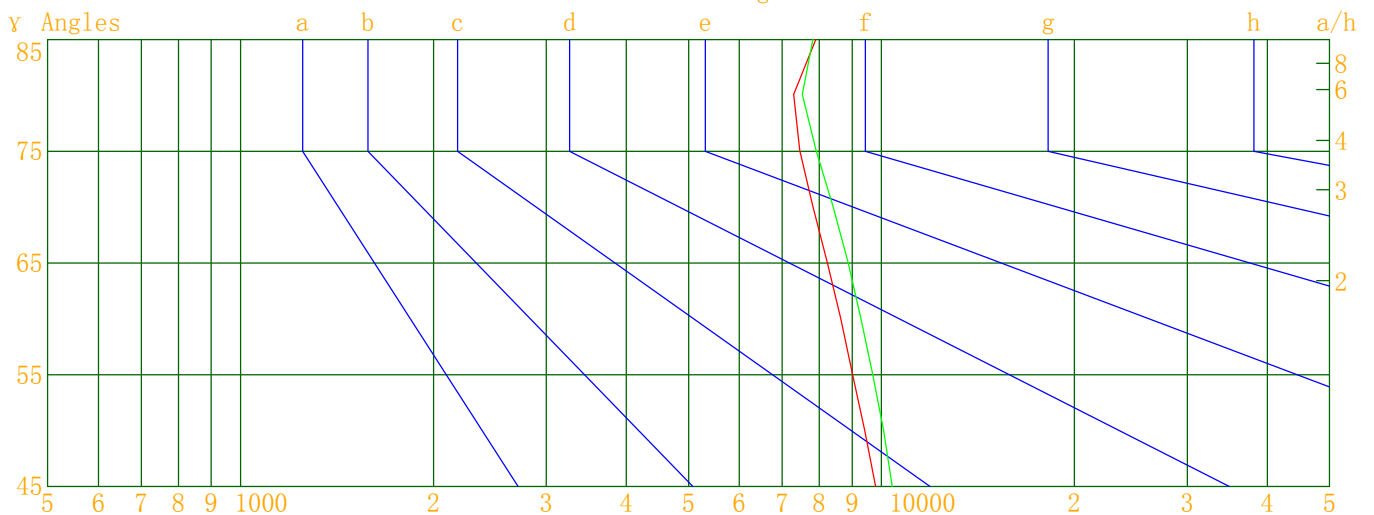
Glare Grade Table

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	9789	9411	9011	8636	8234	7819	7454	7297	7898
C90	10390	10074	9686	9284	8871	8399	7905	7525	7816

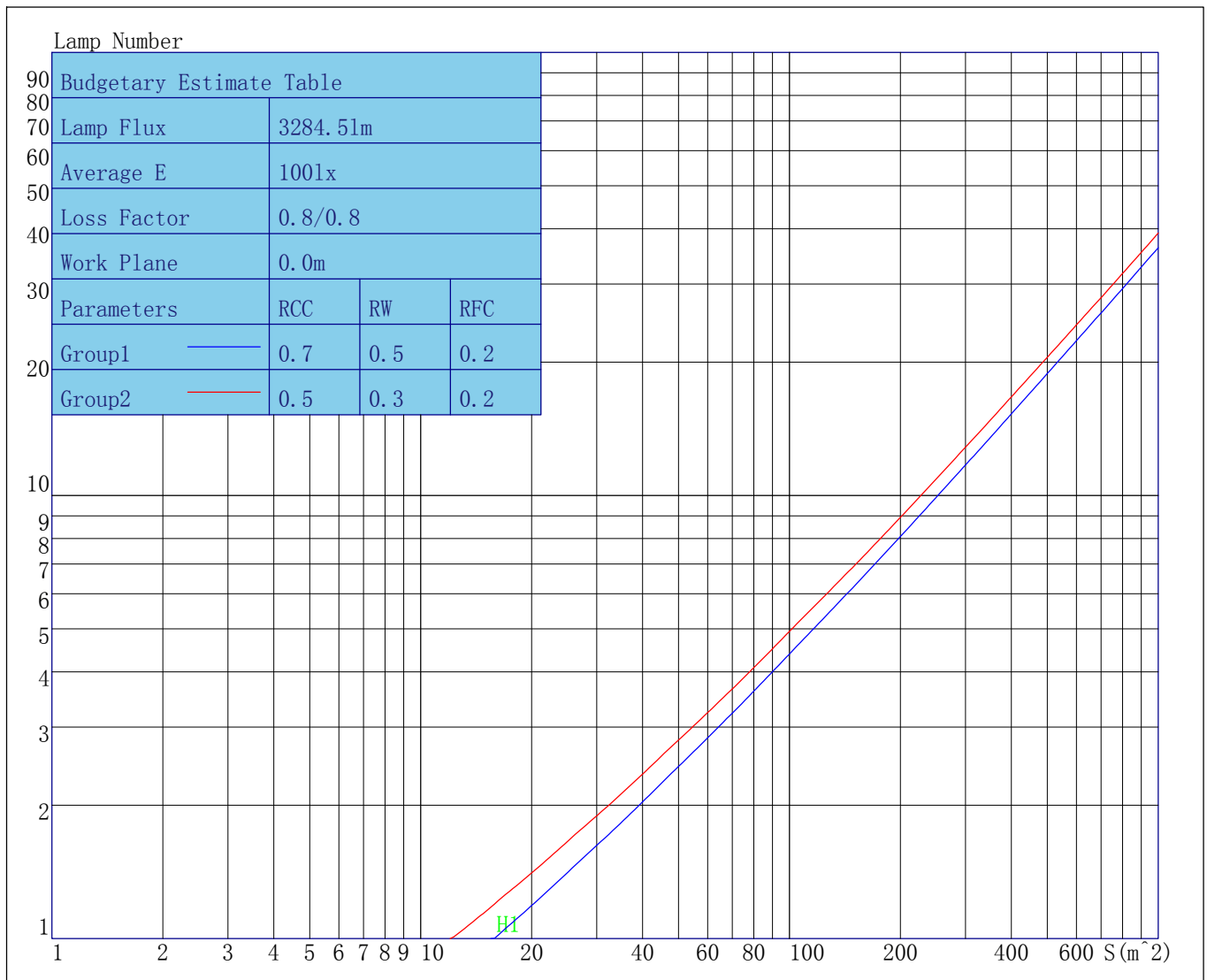
Luminance Limiting Curve



Luminous Size: Length(m)=1.500 Width(m)=0.065 Height(m)=0.000 Area(m²)=0.097500
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24



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

Indoor Coefficient of Utilization Table

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

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	50	30	10	0
RCR	Coefficient of Utilization(%)																				
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95			
1	107	103	98	94	104	100	96	92	95	91	89	90	87	85	85	83	82	79			
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66			
3	89	79	71	64	86	77	69	63	73	67	62	70	64	60	67	62	58	56			
4	82	70	61	55	79	68	60	54	65	58	53	62	56	51	60	54	50	48			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	37			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	34	32			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29			
9	56	43	35	29	55	42	35	29	41	34	29	39	33	28	38	32	28	26			
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	30	26	24			

Unified Glare Rating Table

Lum. Name: SPEND08	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2018/12/24

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	19.5	21.0	20.0	21.5	21.9	19.7	21.2	20.2	21.7	22.1
Y=3H	21.1	22.4	21.5	22.8	23.3	21.3	22.7	21.8	23.1	23.6
Y=4H	21.7	23.0	22.2	23.4	23.9	21.9	23.2	22.4	23.7	24.2
Y=6H	22.2	23.4	22.7	23.9	24.4	22.5	23.6	23.0	24.1	24.6
Y=8H	22.4	23.6	22.9	24.1	24.6	22.7	23.8	23.2	24.3	24.8
Y=12H	22.6	23.7	23.1	24.2	24.7	22.8	23.9	23.3	24.4	24.9
X=4H Y=2H	20.3	21.6	20.8	22.0	22.5	20.4	21.7	20.9	22.1	22.6
Y=3H	22.0	23.1	22.5	23.6	24.1	22.2	23.2	22.6	23.7	24.2
Y=4H	22.8	23.8	23.3	24.3	24.8	22.9	23.9	23.4	24.4	25.0
Y=6H	23.5	24.3	24.0	24.8	25.4	23.6	24.4	24.1	25.0	25.5
Y=8H	23.7	24.5	24.3	25.0	25.6	23.8	24.6	24.4	25.2	25.7
Y=12H	24.0	24.7	24.5	25.2	25.8	24.1	24.8	24.6	25.3	25.9
X=8H Y=4H	23.2	23.9	23.7	24.5	25.1	23.2	24.0	23.8	24.5	25.1
Y=6H	24.0	24.6	24.5	25.2	25.9	24.0	24.7	24.6	25.3	26.0
Y=8H	24.3	24.9	24.9	25.5	26.1	24.4	25.0	25.0	25.5	26.1
Y=12H	24.7	25.2	25.3	25.8	26.5	24.7	25.2	25.3	25.8	26.5
X=12H Y=4H	23.2	23.9	23.8	24.5	25.1	23.2	24.0	23.8	24.5	25.1
Y=6H	24.1	24.7	24.7	25.2	25.9	24.1	24.7	24.7	25.2	25.9
Y=8H	24.5	25.0	25.1	25.6	26.3	24.5	25.0	25.1	25.6	26.3
Variations with the objverver position at spacings										
S=1.0H	0.4/-0.4					0.4/-0.4				
S=1.5H	0.7/-0.8					0.7/-0.8				
S=2.0H	0.9/-1.0					0.9/-1.1				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	3.0					2.9				

o the CIE Pub. 117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report
Photometric Filename: SPEND08.IES

Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 0.0	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77	1196.77
Y 1.0	1202.66	1199.97	1195.43	1192.44	1189.87	1190.57	1203.01	1200.12	1196.24	1192.01	1189.86	1191.41
Y 2.0	1200.81	1198.26	1193.40	1191.11	1188.08	1188.97	1202.83	1199.35	1196.09	1191.10	1190.36	1191.02
Y 3.0	1197.76	1197.66	1191.15	1188.16	1186.29	1186.72	1200.82	1198.07	1195.44	1191.29	1189.22	1188.94
Y 4.0	1195.17	1194.47	1189.05	1186.42	1183.94	1183.46	1199.93	1196.12	1193.19	1189.40	1188.33	1187.17
Y 5.0	1191.28	1191.30	1186.11	1183.25	1180.83	1180.01	1196.20	1193.88	1190.41	1187.07	1185.87	1184.52
Y 6.0	1187.78	1187.28	1182.60	1181.07	1176.83	1176.94	1193.09	1189.50	1188.01	1185.01	1182.67	1182.29
Y 7.0	1182.66	1183.21	1178.09	1176.38	1173.33	1171.59	1188.73	1186.19	1184.48	1181.90	1180.58	1179.01
Y 8.0	1177.71	1177.98	1173.81	1172.84	1167.67	1166.49	1183.75	1181.77	1180.40	1178.47	1176.18	1174.98
Y 9.0	1171.41	1172.69	1167.27	1168.01	1162.19	1160.81	1179.13	1176.37	1177.21	1174.88	1172.69	1169.20
Y 10.0	1165.35	1165.73	1162.02	1162.48	1157.03	1154.41	1171.45	1170.84	1171.74	1169.45	1168.43	1163.97
Y 11.0	1157.94	1158.45	1155.93	1155.95	1149.98	1148.33	1165.96	1164.70	1166.53	1164.04	1163.06	1157.15
Y 12.0	1149.85	1151.42	1148.83	1149.58	1143.92	1140.63	1158.57	1157.16	1161.26	1158.25	1156.98	1149.92
Y 13.0	1141.48	1143.12	1141.86	1141.78	1135.81	1132.89	1151.20	1149.30	1154.17	1152.12	1150.46	1143.69
Y 14.0	1132.72	1134.46	1133.07	1134.48	1127.42	1124.20	1142.74	1141.07	1147.29	1145.93	1143.42	1135.16
Y 15.0	1122.23	1125.63	1124.99	1126.64	1119.08	1115.13	1133.29	1133.33	1140.06	1138.35	1135.95	1126.17
Y 16.0	1112.51	1115.63	1116.20	1118.07	1109.95	1105.94	1123.33	1123.93	1132.24	1130.77	1128.26	1117.59
Y 17.0	1101.84	1105.43	1105.59	1108.79	1100.33	1094.65	1113.89	1113.51	1123.47	1122.23	1119.35	1107.99
Y 18.0	1090.88	1094.66	1096.95	1098.99	1089.94	1084.56	1102.91	1102.93	1114.11	1114.19	1110.86	1098.15
Y 19.0	1079.92	1083.80	1086.13	1090.04	1079.14	1073.17	1091.81	1093.03	1103.62	1105.60	1100.35	1088.23
Y 20.0	1067.96	1071.76	1075.11	1080.11	1067.92	1060.72	1079.49	1081.85	1094.14	1095.79	1091.00	1076.20
Y 21.0	1055.14	1060.20	1063.36	1067.31	1057.35	1049.30	1067.99	1070.21	1082.83	1085.33	1081.23	1065.58
Y 22.0	1042.13	1046.74	1052.37	1057.01	1045.05	1036.61	1055.81	1058.43	1071.69	1074.94	1069.90	1053.33
Y 23.0	1028.42	1034.60	1040.34	1046.40	1034.53	1023.62	1042.84	1045.30	1060.97	1064.07	1058.33	1041.22
Y 24.0	1014.86	1021.49	1027.36	1033.87	1021.27	1010.53	1028.27	1032.40	1048.88	1052.57	1048.25	1027.51
Y 25.0	1000.84	1008.00	1015.23	1021.61	1009.09	996.78	1014.16	1018.84	1036.10	1040.71	1035.00	1015.43
Y 26.0	986.70	993.67	1001.33	1008.34	996.28	982.43	1000.74	1005.83	1024.32	1029.20	1022.69	1001.22
Y 27.0	972.70	979.72	988.43	995.63	981.76	968.63	986.81	990.57	1011.48	1015.90	1010.67	988.13
Y 28.0	957.27	964.39	974.52	982.46	968.96	953.40	972.30	975.72	997.53	1003.63	996.87	974.20
Y 29.0	941.73	950.49	960.03	968.88	954.64	938.91	957.22	961.68	984.50	989.69	984.09	959.28
Y 30.0	926.34	934.95	946.29	954.84	940.42	924.22	941.52	946.60	970.27	975.98	970.03	945.13
Y 31.0	911.39	920.42	931.60	940.05	925.31	908.11	926.23	931.68	955.40	963.07	955.53	929.81
Y 32.0	894.72	903.96	916.38	926.20	909.99	892.33	910.35	915.97	940.72	948.35	941.10	915.30
Y 33.0	878.24	888.25	901.64	910.58	895.70	876.44	893.86	900.19	926.66	934.46	925.95	898.90
Y 34.0	861.80	871.64	886.44	895.96	880.28	860.33	878.68	883.28	911.21	919.93	911.22	883.89
Y 35.0	844.97	854.25	870.14	880.09	863.70	844.13	861.81	867.80	896.32	904.49	895.12	867.15
Y 36.0	827.91	838.52	854.14	864.90	848.15	827.57	844.40	851.17	880.00	889.58	879.92	851.71
Y 37.0	811.93	822.59	837.98	849.53	832.33	810.92	827.88	834.75	864.64	874.13	864.40	835.68
Y 38.0	794.92	804.99	822.07	833.76	816.32	794.47	810.90	818.63	848.13	858.78	849.42	818.64
Y 39.0	778.85	788.36	805.14	817.61	799.30	776.93	793.65	801.35	831.95	842.14	832.82	801.26
Y 40.0	761.61	771.72	788.99	800.82	782.51	760.97	776.66	784.82	816.19	825.66	816.54	785.19
Y 41.0	744.99	755.45	771.94	784.97	766.19	744.19	758.91	766.93	799.01	810.73	800.42	768.00
Y 42.0	727.38	738.40	754.87	768.34	749.31	726.53	741.73	750.69	781.73	793.21	783.77	751.20
Y 43.0	710.44	721.25	738.35	751.53	732.14	709.85	724.58	733.69	766.15	776.98	766.63	734.65
Y 44.0	692.77	704.47	720.28	733.24	715.64	692.97	707.39	716.18	748.89	761.31	750.22	717.17
Y 45.0	674.88	686.84	702.79	716.35	698.07	675.64	690.50	699.44	731.98	744.09	733.33	699.94
Y 46.0	657.85	669.39	686.18	698.79	681.89	658.91	672.48	682.00	714.16	726.23	715.60	682.32

IES Indoor Report
Photometric Filename: SPEND08.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 47.0	641.26	652.13	669.99	682.48	664.05	641.35	654.76	664.23	696.19	708.73	698.67	664.98
Y 48.0	624.32	634.85	652.46	665.35	646.21	624.11	637.78	647.48	679.09	691.97	681.05	648.22
Y 49.0	607.46	616.98	634.84	647.88	629.48	606.37	619.95	628.71	661.26	674.33	664.40	630.45
Y 50.0	589.84	600.02	616.78	631.36	611.66	589.88	603.12	612.15	644.16	657.17	646.67	613.67
Y 51.0	572.31	582.80	599.62	612.70	594.46	572.25	585.90	594.58	626.27	640.28	629.42	596.51
Y 52.0	555.35	565.48	581.59	595.80	577.03	554.91	568.31	577.59	608.91	623.52	612.38	578.61
Y 53.0	538.32	548.36	564.71	577.80	558.90	538.06	550.28	560.38	590.06	605.23	593.83	562.22
Y 54.0	522.06	531.00	547.51	559.67	541.48	519.59	534.28	542.59	572.91	588.34	576.17	545.62
Y 55.0	503.91	514.49	529.92	541.70	523.72	502.09	515.92	525.15	554.98	570.51	559.02	528.34
Y 56.0	488.06	496.54	511.81	524.12	506.31	485.56	499.17	507.82	537.13	553.19	541.23	511.25
Y 57.0	471.66	479.31	493.81	506.82	488.41	468.13	482.91	491.16	521.06	536.38	523.61	494.48
Y 58.0	454.99	462.54	476.84	488.07	471.38	452.50	465.07	474.12	502.53	518.68	507.40	477.74
Y 59.0	437.44	445.45	459.71	470.35	453.82	434.45	448.30	456.23	485.70	500.42	489.97	460.66
Y 60.0	421.02	428.56	441.99	452.59	436.20	418.04	431.35	439.01	468.58	482.31	472.30	443.82
Y 61.0	403.70	411.68	424.87	434.47	419.09	401.15	414.35	422.64	451.21	465.65	455.40	426.73
Y 62.0	387.04	394.51	407.16	416.95	401.55	383.77	397.37	406.09	433.26	447.40	438.14	410.33
Y 63.0	372.58	377.05	390.86	399.79	384.87	367.96	381.31	389.53	415.34	429.96	420.88	393.68
Y 64.0	355.84	360.95	374.18	382.57	367.59	352.07	365.40	373.45	398.31	411.81	403.71	378.06
Y 65.0	339.30	344.88	355.88	365.52	350.48	334.92	349.21	356.75	381.67	395.03	386.72	360.73
Y 66.0	323.00	328.56	339.61	348.34	334.22	319.69	332.16	340.99	365.07	378.47	369.79	344.88
Y 67.0	308.06	311.96	321.53	330.68	317.38	303.03	315.96	324.40	347.96	359.97	352.28	328.78
Y 68.0	292.15	296.46	306.05	313.98	300.45	287.35	300.98	308.78	330.76	342.95	336.28	312.02
Y 69.0	276.00	280.74	289.35	297.11	284.66	272.23	285.39	293.40	314.16	325.64	318.99	297.07
Y 70.0	260.74	265.01	273.96	280.08	267.76	256.65	268.79	277.55	298.17	309.57	302.44	281.27
Y 71.0	245.89	249.12	258.15	264.32	252.65	240.39	252.97	261.90	281.50	292.34	286.19	265.49
Y 72.0	230.97	233.43	241.26	247.39	236.49	225.37	237.63	245.93	264.86	275.95	270.06	251.04
Y 73.0	216.96	218.96	225.51	231.71	220.96	210.51	222.71	230.94	248.89	258.80	253.64	234.68
Y 74.0	203.30	203.92	210.76	215.64	206.02	196.76	207.97	216.87	233.51	243.16	238.15	219.78
Y 75.0	188.11	189.72	196.30	199.47	190.81	182.04	194.58	201.10	217.75	227.18	222.62	205.02
Y 76.0	174.42	174.81	180.26	183.35	175.93	168.45	179.61	186.79	202.71	211.65	207.69	189.59
Y 77.0	160.70	160.62	165.48	168.89	161.69	154.25	165.92	172.70	186.56	196.59	192.73	176.13
Y 78.0	147.94	148.43	152.46	154.63	148.85	140.73	152.44	158.99	172.46	181.60	177.25	162.40
Y 79.0	136.01	135.20	139.10	141.70	135.24	128.65	139.16	145.43	157.45	166.48	163.63	149.64
Y 80.0	123.55	122.70	125.07	127.41	121.97	115.93	126.86	132.71	144.13	152.49	148.19	136.32
Y 81.0	112.31	110.62	112.18	114.59	109.49	103.41	114.17	120.54	130.89	139.00	134.42	123.70
Y 82.0	99.57	98.22	99.50	102.57	96.92	92.51	102.79	107.62	118.22	125.51	121.65	110.24
Y 83.0	88.00	87.47	88.23	89.76	84.70	80.37	90.95	94.85	105.02	111.66	108.31	98.23
Y 84.0	76.97	76.88	76.43	77.47	73.40	69.82	79.49	83.02	92.13	99.72	95.18	87.34
Y 85.0	67.11	66.36	65.82	66.42	62.82	59.55	68.63	72.38	80.17	87.40	83.07	76.09
Y 86.0	56.92	56.80	55.35	56.16	51.86	49.74	58.14	61.90	69.24	74.90	72.25	65.94
Y 87.0	48.80	47.54	46.31	47.17	43.57	40.72	48.83	50.95	58.95	63.45	60.97	55.61
Y 88.0	41.20	39.62	37.34	38.19	36.35	35.03	40.11	41.24	48.33	53.60	49.85	46.22
Y 89.0	34.72	34.78	34.89	34.91	35.41	33.24	31.13	33.40	38.42	43.45	40.22	37.13
Y 90.0	35.16	34.18	35.42	33.45	35.55	32.76	24.94	27.28	29.39	32.73	31.46	29.07
Y 91.0	34.60	33.76	35.25	33.74	33.94	32.69	22.41	23.91	22.45	25.25	24.60	23.83
Y 92.0	34.13	33.58	34.06	33.05	33.57	32.80	22.77	23.83	21.42	23.86	22.12	23.23
Y 93.0	34.06	32.81	33.74	32.76	33.38	31.95	22.17	22.21	20.64	23.48	23.03	22.70

IES Indoor Report
Photometric Filename: SPEND08.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 94.0	32.90	33.26	33.54	32.88	33.30	31.97	22.10	22.97	21.13	23.05	22.71	22.93
Y 95.0	33.92	33.15	33.31	32.29	32.86	31.23	21.68	23.37	20.74	22.92	22.19	22.84
Y 96.0	33.21	33.19	32.45	32.59	32.72	31.08	22.07	23.48	21.97	22.90	22.14	22.27
Y 97.0	33.04	33.17	32.14	32.08	32.15	30.81	21.56	23.34	21.53	23.42	22.11	23.21
Y 98.0	32.93	32.80	32.85	32.39	31.70	30.84	21.68	22.39	21.31	22.81	21.36	22.86
Y 99.0	31.53	32.19	33.20	32.37	31.89	30.61	21.24	21.77	21.80	23.54	22.07	22.14
Y 100.0	31.47	32.99	32.03	32.15	32.15	29.21	22.35	21.11	21.94	23.60	21.81	21.99
Y 101.0	31.27	32.38	31.88	31.76	31.51	29.14	22.56	20.60	22.09	22.38	21.93	22.13
Y 102.0	31.39	31.56	32.30	32.21	31.50	29.52	22.08	22.38	21.52	21.85	21.91	21.83
Y 103.0	30.95	31.89	32.00	32.21	30.90	29.24	21.80	21.35	21.48	22.91	21.92	22.32
Y 104.0	30.18	30.75	31.93	31.95	30.95	28.78	22.20	21.88	21.28	22.97	21.48	22.07
Y 105.0	31.13	31.53	31.43	30.85	30.52	30.06	22.75	22.62	21.00	22.27	22.62	21.68
Y 106.0	30.92	30.72	31.30	31.21	30.19	29.35	21.93	21.93	21.17	22.56	22.20	21.32
Y 107.0	31.07	30.95	30.64	31.61	29.85	28.42	22.46	22.93	22.08	22.46	21.92	22.03
Y 108.0	30.14	29.93	30.93	31.01	29.42	28.38	22.37	22.44	21.56	22.73	21.87	21.82
Y 109.0	29.92	29.21	30.26	30.73	30.57	28.45	22.80	22.59	22.27	23.28	21.82	22.24
Y 110.0	29.79	29.63	29.89	29.62	30.41	29.28	22.40	22.31	22.65	22.98	22.28	21.84
Y 111.0	29.65	29.64	30.38	30.21	29.42	28.44	23.19	22.31	21.98	23.14	21.59	22.04
Y 112.0	29.26	29.76	30.53	29.55	29.47	28.36	23.21	22.04	22.02	23.55	21.62	22.23
Y 113.0	29.28	29.09	29.19	29.33	29.68	28.02	22.16	22.67	22.42	23.54	22.46	22.17
Y 114.0	29.65	29.33	29.52	29.93	29.87	27.71	22.36	22.06	22.55	23.01	22.42	22.46
Y 115.0	29.22	29.28	30.34	29.15	29.89	27.70	23.39	22.54	22.60	23.06	21.96	22.81
Y 116.0	28.64	29.37	30.25	29.13	29.44	26.90	22.88	22.64	22.58	23.73	21.80	22.29
Y 117.0	28.58	29.47	29.60	29.25	29.45	26.85	23.10	22.62	22.27	23.51	22.14	22.66
Y 118.0	28.01	29.31	29.83	29.37	30.03	26.32	22.92	22.31	22.67	23.85	21.96	22.40
Y 119.0	27.81	28.90	30.00	28.69	29.39	26.25	23.08	22.71	22.33	22.82	22.84	21.68
Y 120.0	27.77	29.28	29.77	28.90	29.40	26.46	23.10	24.02	22.68	23.56	22.49	22.41
Y 121.0	28.54	30.34	29.67	29.30	28.85	26.40	23.87	24.06	21.99	23.79	22.97	22.44
Y 122.0	27.56	28.74	29.14	29.00	28.63	26.78	23.02	23.87	22.62	23.08	23.15	22.78
Y 123.0	27.33	29.04	28.51	28.38	29.24	27.38	23.60	23.83	23.18	23.11	23.09	23.01
Y 124.0	27.55	30.04	29.15	28.71	28.85	26.82	24.64	24.10	24.18	23.78	22.30	23.61
Y 125.0	27.27	29.17	28.55	27.84	28.55	26.58	23.43	23.43	22.83	23.21	22.70	23.73
Y 126.0	28.39	29.56	28.17	27.67	28.45	26.80	24.41	24.42	23.82	23.80	22.83	22.80
Y 127.0	27.91	29.72	28.28	28.34	27.92	26.79	24.70	24.46	23.81	23.82	22.66	23.67
Y 128.0	27.59	29.61	28.38	28.13	28.48	26.56	24.32	24.17	23.17	24.07	23.00	23.82
Y 129.0	28.52	28.93	28.95	28.18	29.49	27.34	23.76	23.89	23.22	23.98	22.91	24.14
Y 130.0	28.42	28.68	28.92	29.17	28.35	27.53	23.98	24.17	23.39	24.43	22.88	23.88
Y 131.0	28.53	28.52	29.21	28.98	28.57	27.44	23.97	25.09	24.69	24.51	23.20	24.04
Y 132.0	28.38	28.98	28.71	29.43	28.99	27.89	24.15	24.63	23.55	24.64	24.62	23.93
Y 133.0	27.67	29.55	29.54	28.92	29.71	28.07	24.66	25.03	23.81	23.86	24.70	24.48
Y 134.0	28.54	29.51	28.92	28.65	28.57	27.86	24.73	24.68	25.19	24.64	24.87	24.46
Y 135.0	27.92	29.66	29.29	28.55	29.19	28.98	25.53	25.67	24.79	24.17	24.80	24.15
Y 136.0	28.86	29.00	28.16	28.89	27.89	28.71	25.37	25.74	25.30	25.03	25.00	24.35
Y 137.0	29.10	29.04	29.18	28.70	27.99	27.97	25.50	27.23	25.35	25.82	24.72	24.41
Y 138.0	28.52	29.22	28.81	29.31	28.72	28.07	26.52	26.90	25.46	25.15	25.26	25.22
Y 139.0	28.83	29.68	28.83	29.70	28.83	27.83	26.46	26.79	25.53	25.98	25.10	24.97
Y 140.0	28.41	29.01	29.58	29.67	28.15	27.35	26.52	27.69	25.83	26.05	25.57	25.38

