

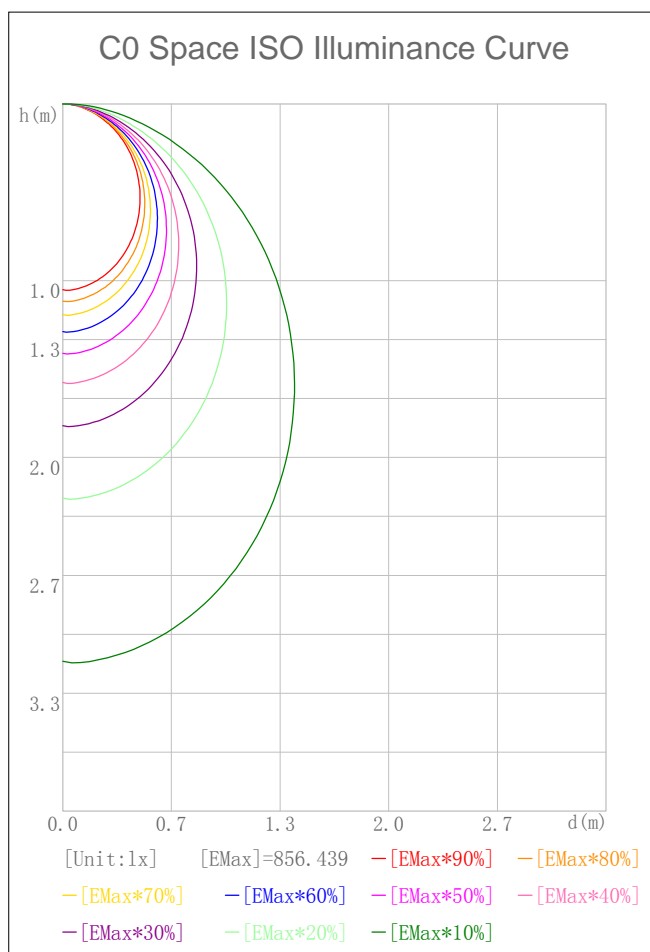
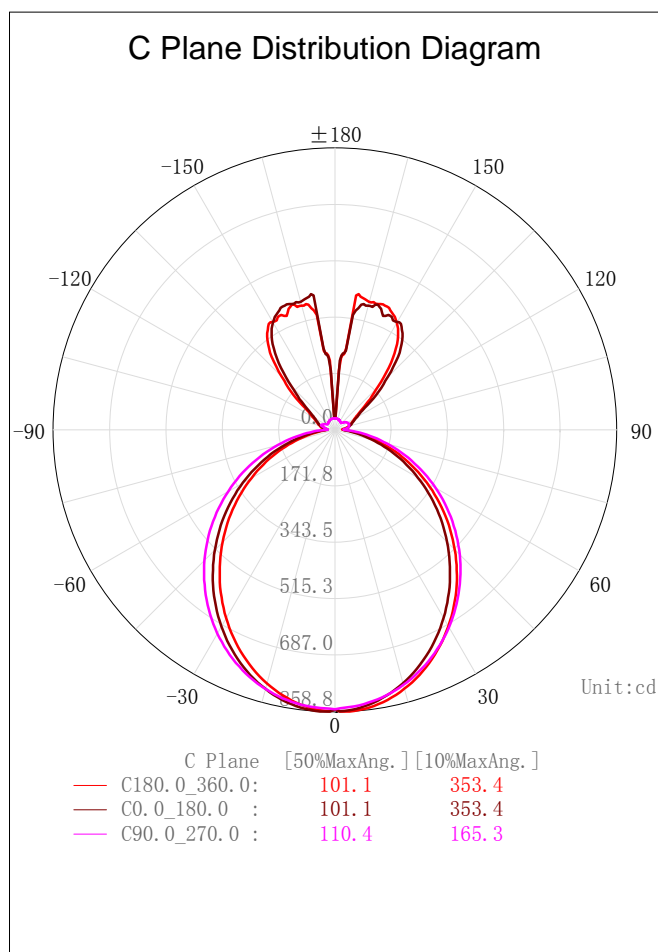
Indoor Luminaire Photometric Data

Description Information

Luminary Name: SPEND40-1500		Lum. Catalog:	Test ID: 001
Lamp Name:		Lamp Catalog: LED	Test Date: 2019/06/11
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab: Volnic IES	Frequency (Hz):		Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.080m*1.500m*0.000m		Lum. Area (m2): 0.120	Lum. W (kg): 0.200
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity (%): 50.0

Character Parameter

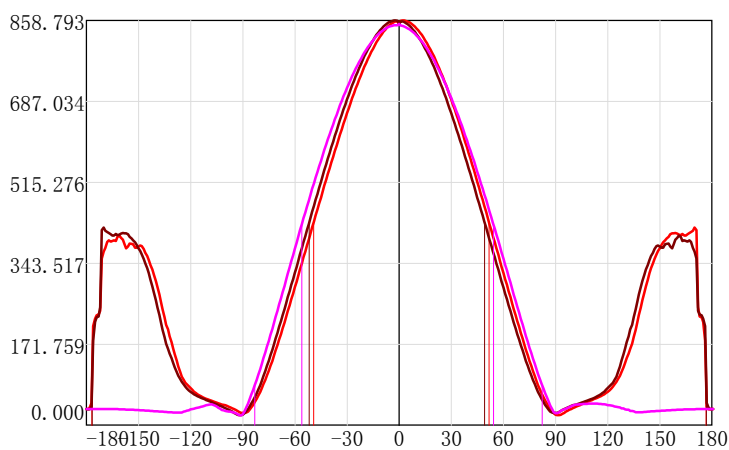
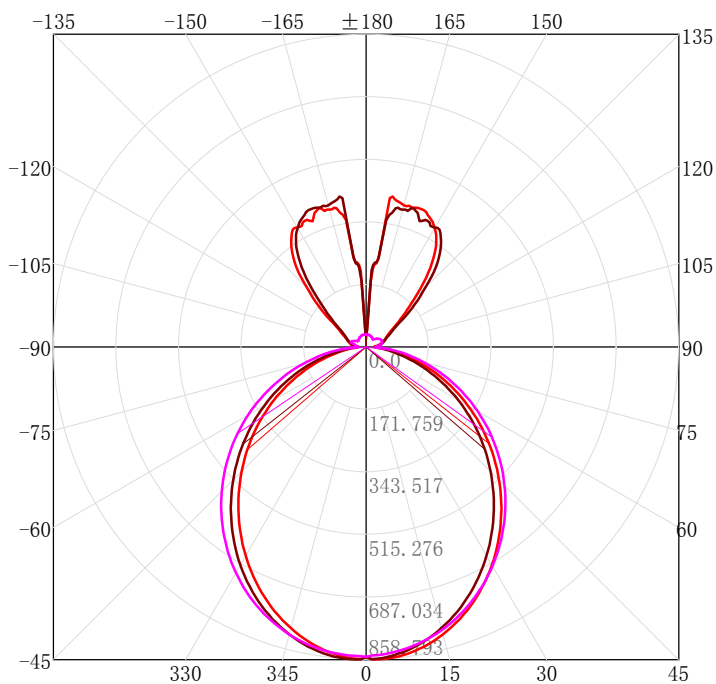
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux (lm): 3099.710	Luminary Flux (lm): 3099.706	Field Angle (10%Imax): 353.4(°)	
Rated Power (W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2288.790lm 73.84%	
Rated Voltage (V):	Luminary EER (lm/W): 80.220	Up Lumens&Percent: 810.916lm 26.16%	
Tested Power (W): 38.640	Max. Candela (cd): 858.793	S/MH: C0_a180=1.187 C90_270=1.233	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=2.0	CIE Type: General Diffuse	
Tested Electrics (V, A, pf): 230.3, 0.172, 0.972	Beam Angle (50%Imax): 101.1(°)	ErP Φ use (120°): 1814.366lm	
Lamp Size (W*L*H): 0.080m*1.500m*0.000m	Left=-49.3°, Right=51.8°	IRF (%): 117.800	



2D Plane Light Intensity Distribution Curve

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/06/11

C Plane Distribution Diagram

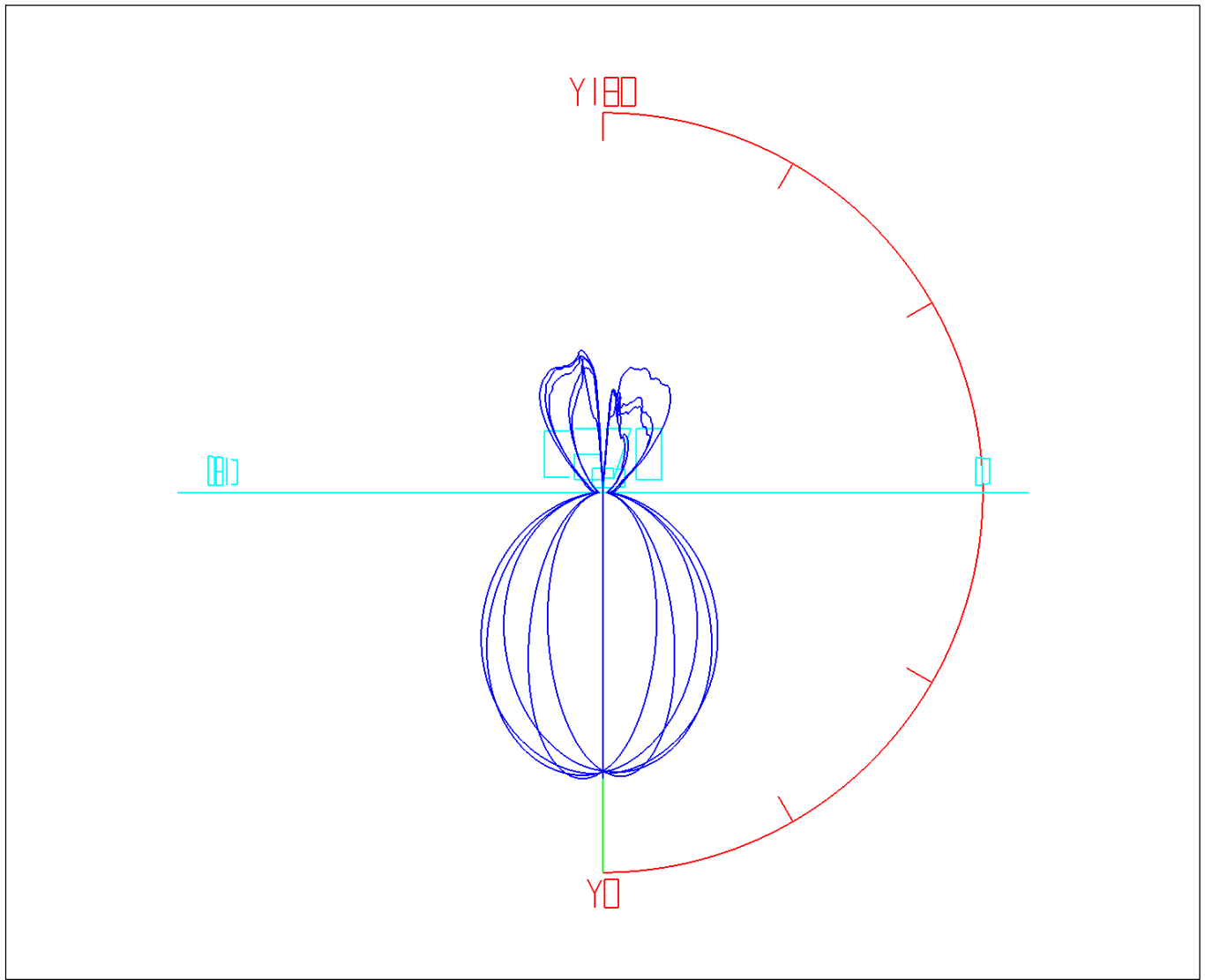


	C Plane	[50%MaxAng.]	[10%MaxAng.] t :cd
—	C180.0_360.0 :	101.1	353.4
—	C0.0_180.0 :	101.1	353.4
—	C90.0_270.0 :	110.4	165.3

3D Light Intensity Distribution Modal

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/06/11

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:SPEND40-1500.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	0.81	0.81	0.03	0.03	47.0-48.0	39.83	1371.27	1.29	44.24
1.0-2.0	2.44	3.26	0.08	0.11	48.0-49.0	39.46	1410.73	1.27	45.51
2.0-3.0	4.07	7.33	0.13	0.24	49.0-50.0	39.03	1449.76	1.26	46.77
3.0-4.0	5.69	13.02	0.18	0.42	50.0-51.0	38.55	1488.30	1.24	48.01
4.0-5.0	7.30	20.32	0.24	0.66	51.0-52.0	38.02	1526.32	1.23	49.24
5.0-6.0	8.90	29.22	0.29	0.94	52.0-53.0	37.44	1563.76	1.21	50.45
6.0-7.0	10.48	39.70	0.34	1.28	53.0-54.0	36.82	1600.58	1.19	51.64
7.0-8.0	12.05	51.75	0.39	1.67	54.0-55.0	36.16	1636.75	1.17	52.80
8.0-9.0	13.59	65.34	0.44	2.11	55.0-56.0	35.46	1672.21	1.14	53.95
9.0-10.0	15.11	80.44	0.49	2.60	56.0-57.0	34.71	1706.92	1.12	55.07
10.0-11.0	16.60	97.05	0.54	3.13	57.0-58.0	33.92	1740.84	1.09	56.16
11.0-12.0	18.07	115.12	0.58	3.71	58.0-59.0	33.09	1773.94	1.07	57.23
12.0-13.0	19.51	134.62	0.63	4.34	59.0-60.0	32.23	1806.17	1.04	58.27
13.0-14.0	20.91	155.54	0.67	5.02	60.0-61.0	31.34	1837.51	1.01	59.28
14.0-15.0	22.28	177.81	0.72	5.74	61.0-62.0	30.42	1867.93	0.98	60.26
15.0-16.0	23.61	201.42	0.76	6.50	62.0-63.0	29.45	1897.39	0.95	61.21
16.0-17.0	24.90	226.33	0.80	7.30	63.0-64.0	28.46	1925.85	0.92	62.13
17.0-18.0	26.16	252.48	0.84	8.15	64.0-65.0	27.44	1953.28	0.89	63.02
18.0-19.0	27.37	279.85	0.88	9.03	65.0-66.0	26.40	1979.68	0.85	63.87
19.0-20.0	28.54	308.38	0.92	9.95	66.0-67.0	25.33	2005.01	0.82	64.68
20.0-21.0	29.66	338.04	0.96	10.91	67.0-68.0	24.25	2029.26	0.78	65.47
21.0-22.0	30.73	368.77	0.99	11.90	68.0-69.0	23.14	2052.40	0.75	66.21
22.0-23.0	31.75	400.52	1.02	12.92	69.0-70.0	22.01	2074.41	0.71	66.92
23.0-24.0	32.73	433.25	1.06	13.98	70.0-71.0	20.87	2095.28	0.67	67.60
24.0-25.0	33.66	466.91	1.09	15.06	71.0-72.0	19.72	2115.00	0.64	68.23
25.0-26.0	34.53	501.44	1.11	16.18	72.0-73.0	18.58	2133.58	0.60	68.83
26.0-27.0	35.36	536.80	1.14	17.32	73.0-74.0	17.43	2151.01	0.56	69.39
27.0-28.0	36.12	572.92	1.17	18.48	74.0-75.0	16.27	2167.28	0.52	69.92
28.0-29.0	36.84	609.76	1.19	19.67	75.0-76.0	15.12	2182.40	0.49	70.41
29.0-30.0	37.50	647.26	1.21	20.88	76.0-77.0	13.97	2196.37	0.45	70.86
30.0-31.0	38.11	685.36	1.23	22.11	77.0-78.0	12.85	2209.22	0.41	71.27
31.0-32.0	38.66	724.02	1.25	23.36	78.0-79.0	11.75	2220.97	0.38	71.65
32.0-33.0	39.15	763.17	1.26	24.62	79.0-80.0	10.66	2231.63	0.34	71.99
33.0-34.0	39.58	802.75	1.28	25.90	80.0-81.0	9.61	2241.24	0.31	72.30
34.0-35.0	39.96	842.71	1.29	27.19	81.0-82.0	8.59	2249.83	0.28	72.58
35.0-36.0	40.28	882.99	1.30	28.49	82.0-83.0	7.62	2257.44	0.25	72.83
36.0-37.0	40.55	923.55	1.31	29.79	83.0-84.0	6.69	2264.13	0.22	73.04
37.0-38.0	40.76	964.31	1.32	31.11	84.0-85.0	5.81	2269.94	0.19	73.23
38.0-39.0	40.92	1005.23	1.32	32.43	85.0-86.0	5.00	2274.95	0.16	73.39
39.0-40.0	41.01	1046.24	1.32	33.75	86.0-87.0	4.27	2279.22	0.14	73.53
40.0-41.0	41.05	1087.29	1.32	35.08	87.0-88.0	3.64	2282.85	0.12	73.65
41.0-42.0	41.04	1128.32	1.32	36.40	88.0-89.0	3.13	2285.99	0.10	73.75
42.0-43.0	40.97	1169.30	1.32	37.72	89.0-90.0	2.80	2288.79	0.09	73.84
43.0-44.0	40.85	1210.15	1.32	39.04	90.0-91.0	2.67	2291.46	0.09	73.92
44.0-45.0	40.68	1250.83	1.31	40.35	91.0-92.0	2.71	2294.17	0.09	74.01
45.0-46.0	40.45	1291.27	1.30	41.66	92.0-93.0	2.86	2297.02	0.09	74.10
46.0-47.0	40.16	1331.44	1.30	42.95	93.0-94.0	3.06	2300.08	0.10	74.20

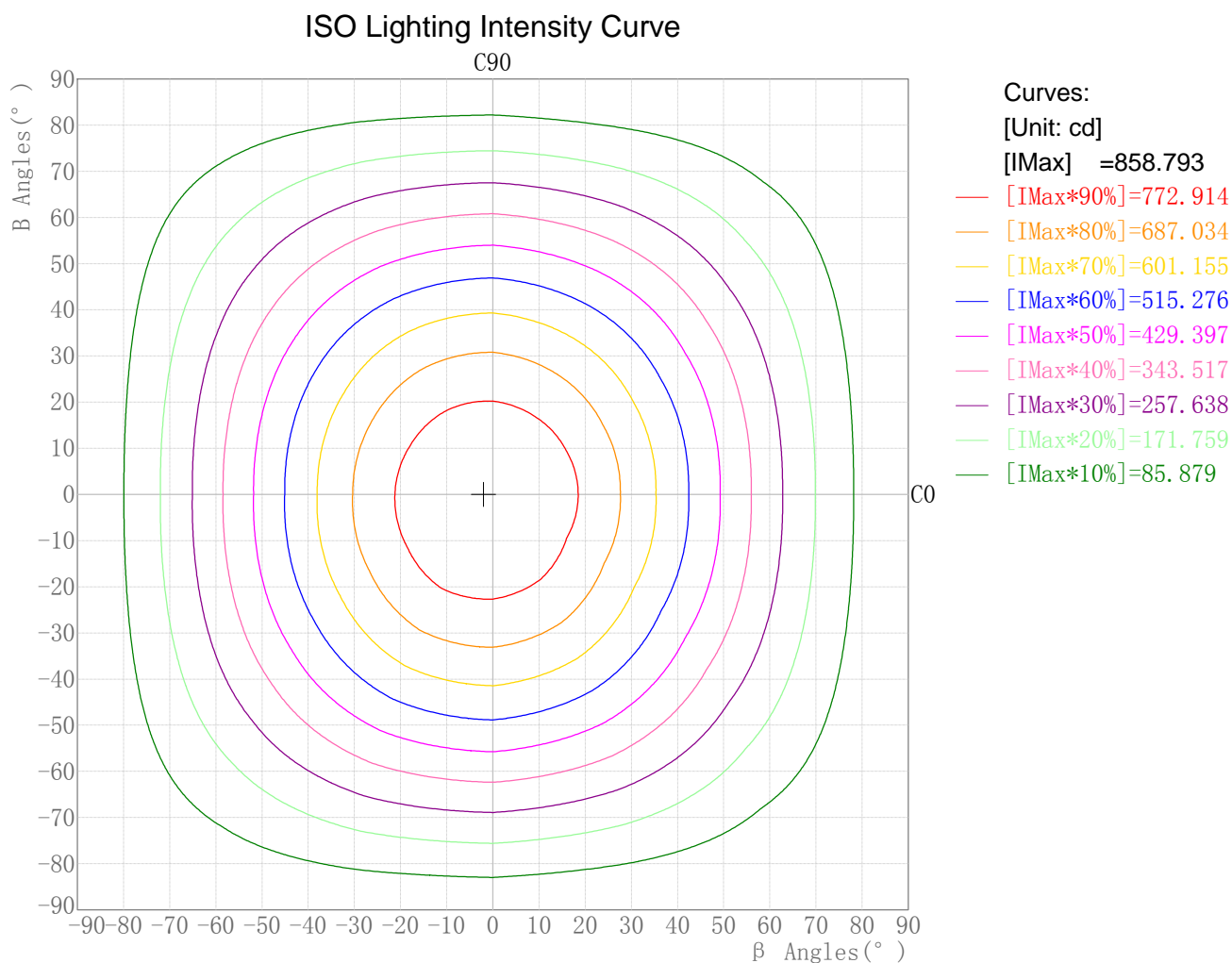
IES Indoor Report
Photometric Filename:SPEND40-1500.IES

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	3.26	2303.34	0.11	74.31	141.0-142.0	16.35	2738.13	0.53	88.34
95.0-96.0	3.45	2306.78	0.11	74.42	142.0-143.0	16.34	2754.48	0.53	88.86
96.0-97.0	3.63	2310.41	0.12	74.54	143.0-144.0	16.27	2770.75	0.53	89.39
97.0-98.0	3.80	2314.21	0.12	74.66	144.0-145.0	16.06	2786.81	0.52	89.91
98.0-99.0	3.97	2318.18	0.13	74.79	145.0-146.0	15.81	2802.62	0.51	90.42
99.0-100.0	4.13	2322.31	0.13	74.92	146.0-147.0	15.60	2818.23	0.50	90.92
100.0-101.0	4.29	2326.61	0.14	75.06	147.0-148.0	15.40	2833.63	0.50	91.42
101.0-102.0	4.45	2331.05	0.14	75.20	148.0-149.0	15.16	2848.79	0.49	91.90
102.0-103.0	4.61	2335.66	0.15	75.35	149.0-150.0	14.87	2863.66	0.48	92.38
103.0-104.0	4.79	2340.46	0.15	75.51	150.0-151.0	14.58	2878.24	0.47	92.86
104.0-105.0	4.97	2345.43	0.16	75.67	151.0-152.0	14.34	2892.58	0.46	93.32
105.0-106.0	5.14	2350.57	0.17	75.83	152.0-153.0	14.10	2906.68	0.45	93.77
106.0-107.0	5.33	2355.90	0.17	76.00	153.0-154.0	13.84	2920.51	0.45	94.22
107.0-108.0	5.54	2361.44	0.18	76.18	154.0-155.0	13.49	2934.01	0.44	94.65
108.0-109.0	5.76	2367.20	0.19	76.37	155.0-156.0	13.08	2947.09	0.42	95.08
109.0-110.0	6.01	2373.21	0.19	76.56	156.0-157.0	12.61	2959.70	0.41	95.48
110.0-111.0	6.26	2379.47	0.20	76.76	157.0-158.0	12.13	2971.83	0.39	95.87
111.0-112.0	6.51	2385.98	0.21	76.97	158.0-159.0	11.67	2983.50	0.38	96.25
112.0-113.0	6.76	2392.74	0.22	77.19	159.0-160.0	11.24	2994.73	0.36	96.61
113.0-114.0	6.98	2399.72	0.23	77.42	160.0-161.0	10.84	3005.58	0.35	96.96
114.0-115.0	7.17	2406.89	0.23	77.65	161.0-162.0	10.41	3015.99	0.34	97.30
115.0-116.0	7.36	2414.25	0.24	77.89	162.0-163.0	9.90	3025.89	0.32	97.62
116.0-117.0	7.58	2421.83	0.24	78.13	163.0-164.0	9.35	3035.24	0.30	97.92
117.0-118.0	7.87	2429.70	0.25	78.38	164.0-165.0	8.82	3044.06	0.28	98.20
118.0-119.0	8.20	2437.90	0.26	78.65	165.0-166.0	8.29	3052.35	0.27	98.47
119.0-120.0	8.57	2446.47	0.28	78.93	166.0-167.0	7.76	3060.10	0.25	98.72
120.0-121.0	8.96	2455.43	0.29	79.21	167.0-168.0	7.22	3067.32	0.23	98.96
121.0-122.0	9.38	2464.81	0.30	79.52	168.0-169.0	6.70	3074.03	0.22	99.17
122.0-123.0	9.79	2474.60	0.32	79.83	169.0-170.0	6.15	3080.17	0.20	99.37
123.0-124.0	10.17	2484.77	0.33	80.16	170.0-171.0	5.39	3085.56	0.17	99.54
124.0-125.0	10.59	2495.36	0.34	80.50	171.0-172.0	4.26	3089.81	0.14	99.68
125.0-126.0	11.05	2506.42	0.36	80.86	172.0-173.0	3.33	3093.14	0.11	99.79
126.0-127.0	11.53	2517.94	0.37	81.23	173.0-174.0	2.67	3095.81	0.09	99.87
127.0-128.0	12.02	2529.96	0.39	81.62	174.0-175.0	1.94	3097.76	0.06	99.94
128.0-129.0	12.50	2542.46	0.40	82.02	175.0-176.0	1.16	3098.91	0.04	99.97
129.0-130.0	12.93	2555.39	0.42	82.44	176.0-177.0	0.48	3099.39	0.02	99.99
130.0-131.0	13.37	2568.77	0.43	82.87	177.0-178.0	0.18	3099.57	0.01	100.00
131.0-132.0	13.83	2582.60	0.45	83.32	178.0-179.0	0.10	3099.67	0.00	100.00
132.0-133.0	14.24	2596.84	0.46	83.78	179.0-180.0	0.03	3099.71	0.00	100.00
133.0-134.0	14.62	2611.45	0.47	84.25					
134.0-135.0	14.99	2626.44	0.48	84.73					
135.0-136.0	15.34	2641.78	0.49	85.23					
136.0-137.0	15.63	2657.40	0.50	85.73					
137.0-138.0	15.86	2673.27	0.51	86.24					
138.0-139.0	16.04	2689.31	0.52	86.76					
139.0-140.0	16.18	2705.49	0.52	87.28					
140.0-141.0	16.30	2721.78	0.53	87.81					

Rectangle ISO Lighting Intensity Diagram

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/06/11

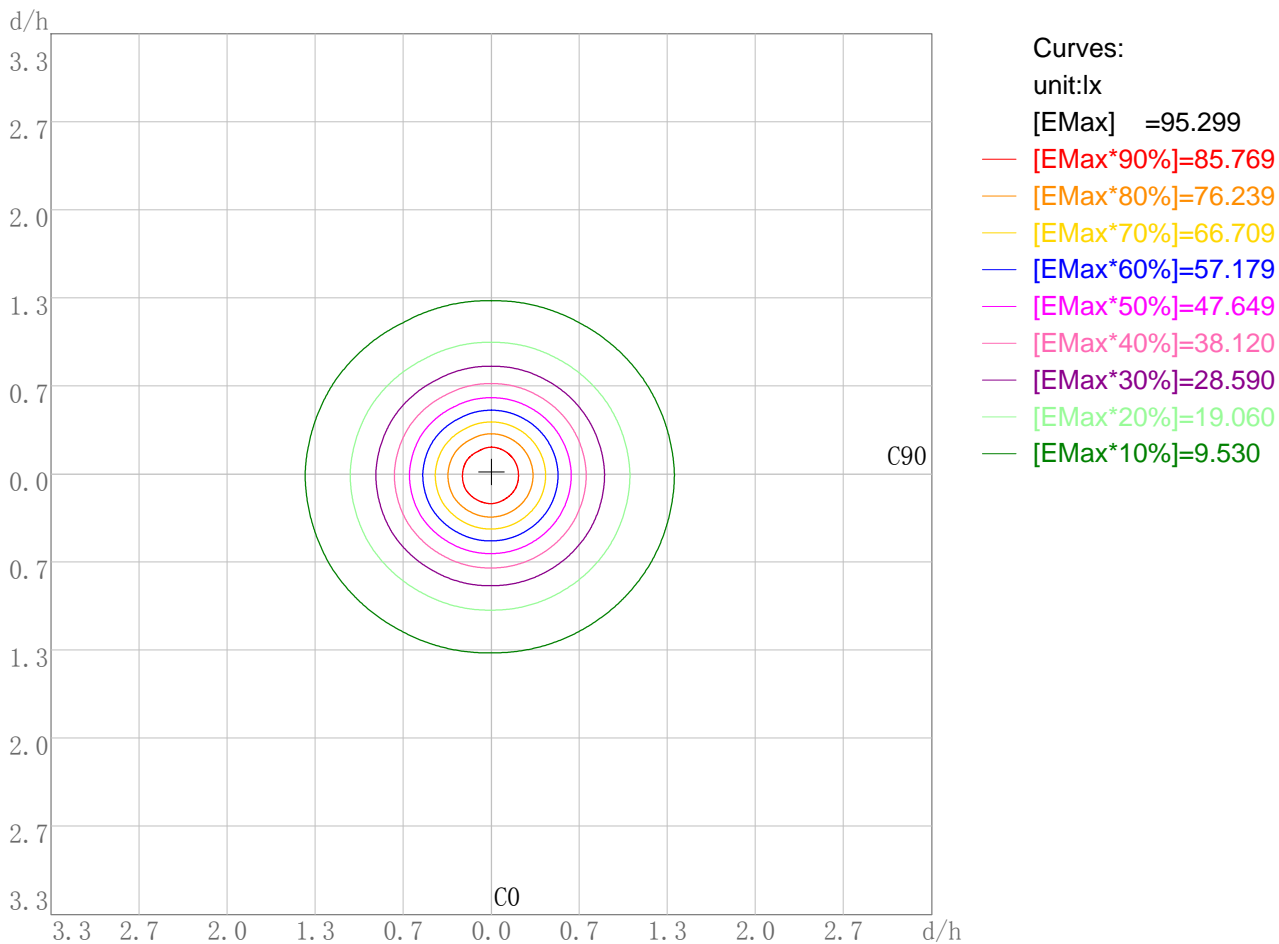


Maximum Light Intensity(cd): 858.79
Maximum Cand.@Angle: H=-2.0°;V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11

Plane ISO-Illuminance Curve

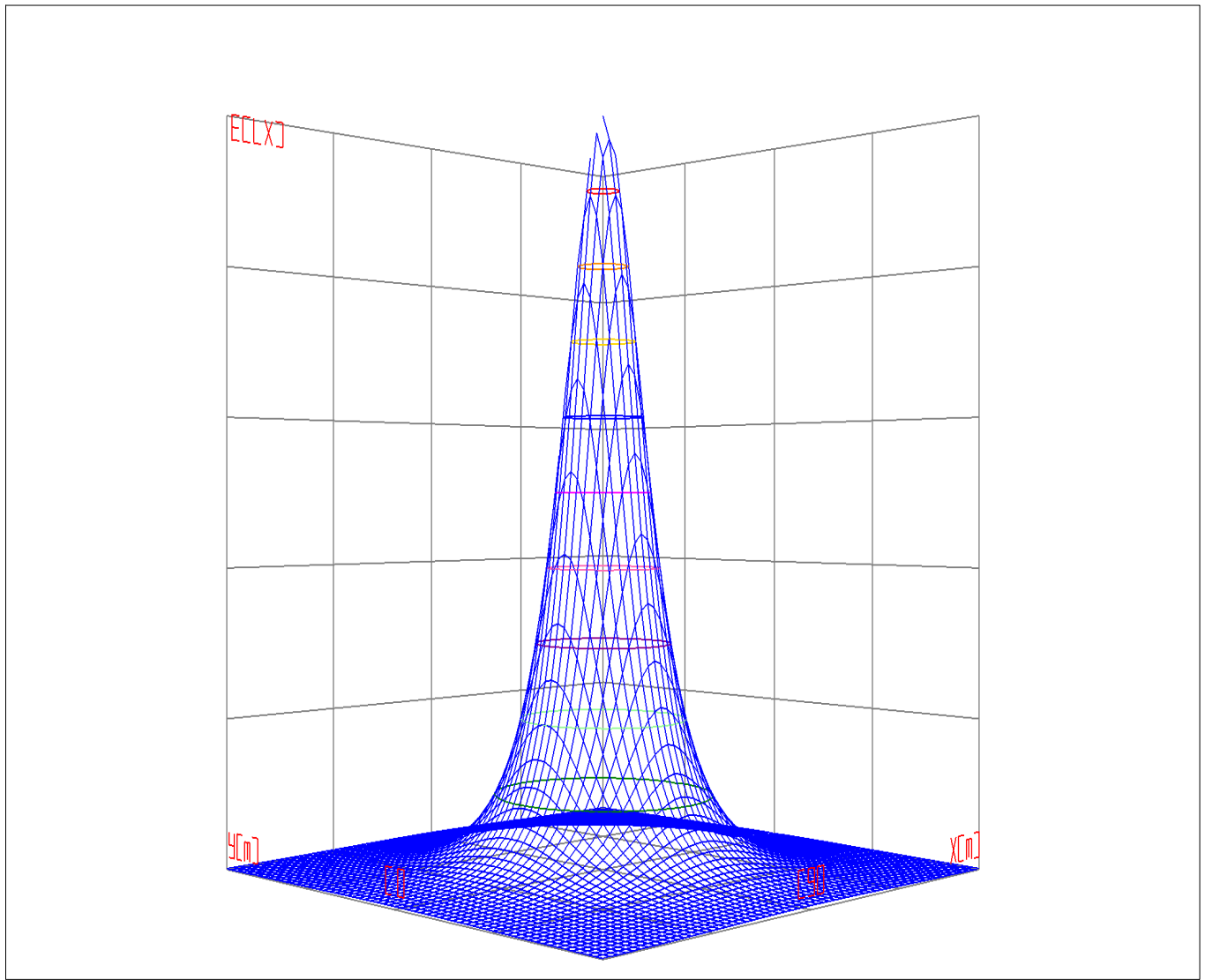


Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 95.30
 Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/06/11

3D Plane Illuminance Modal

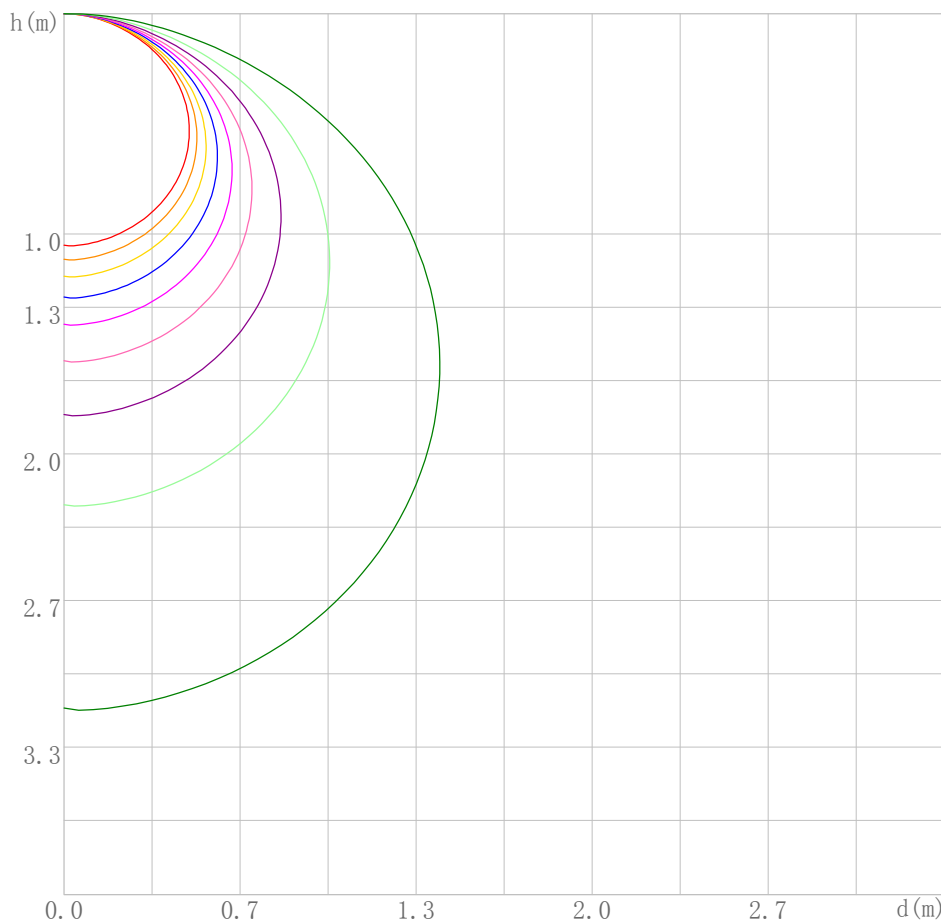


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11

Space ISO Illuminance Curve



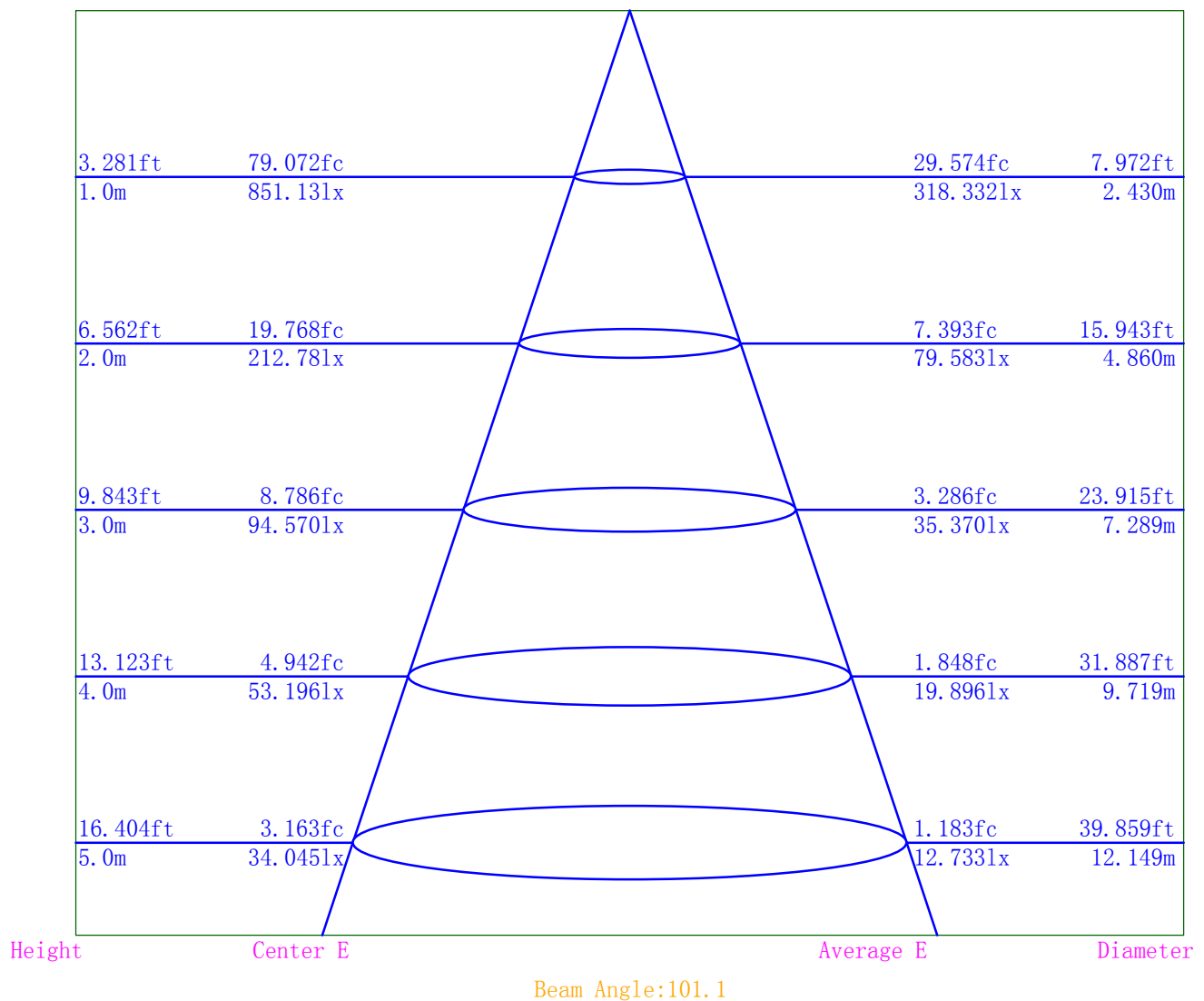
- Curves:
 [Unit: lx]
 [EMax] =856.439
- [EMax*90%]=770.795
 - [EMax*80%]=685.151
 - [EMax*70%]=599.507
 - [EMax*60%]=513.863
 - [EMax*50%]=428.219
 - [EMax*40%]=342.575
 - [EMax*30%]=256.932
 - [EMax*20%]=171.288
 - [EMax*10%]=85.644

Space Plane Maximum Illuminance and @Angle:856.44lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:856.830cd,0deg

Illuminance-Distance Diagram

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine:GON-2000	Test Date: 2019/06/11

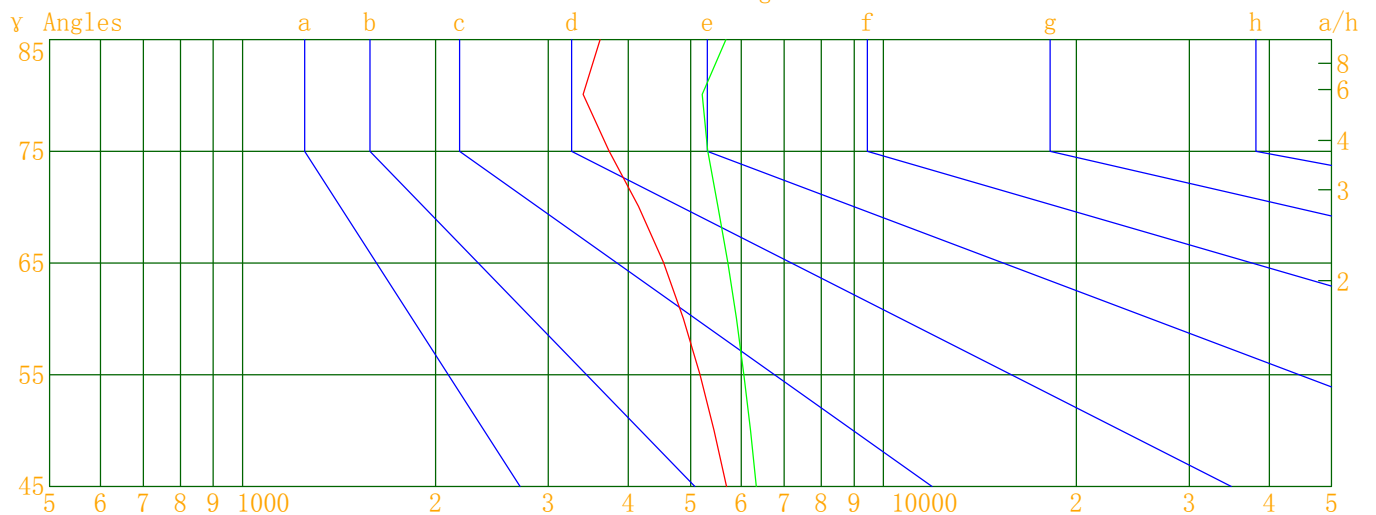
Glare Grade Table

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	5693	5443	5173	4874	4536	4146	3727	3400	3612
C90	6334	6204	6057	5896	5715	5514	5319	5216	5677

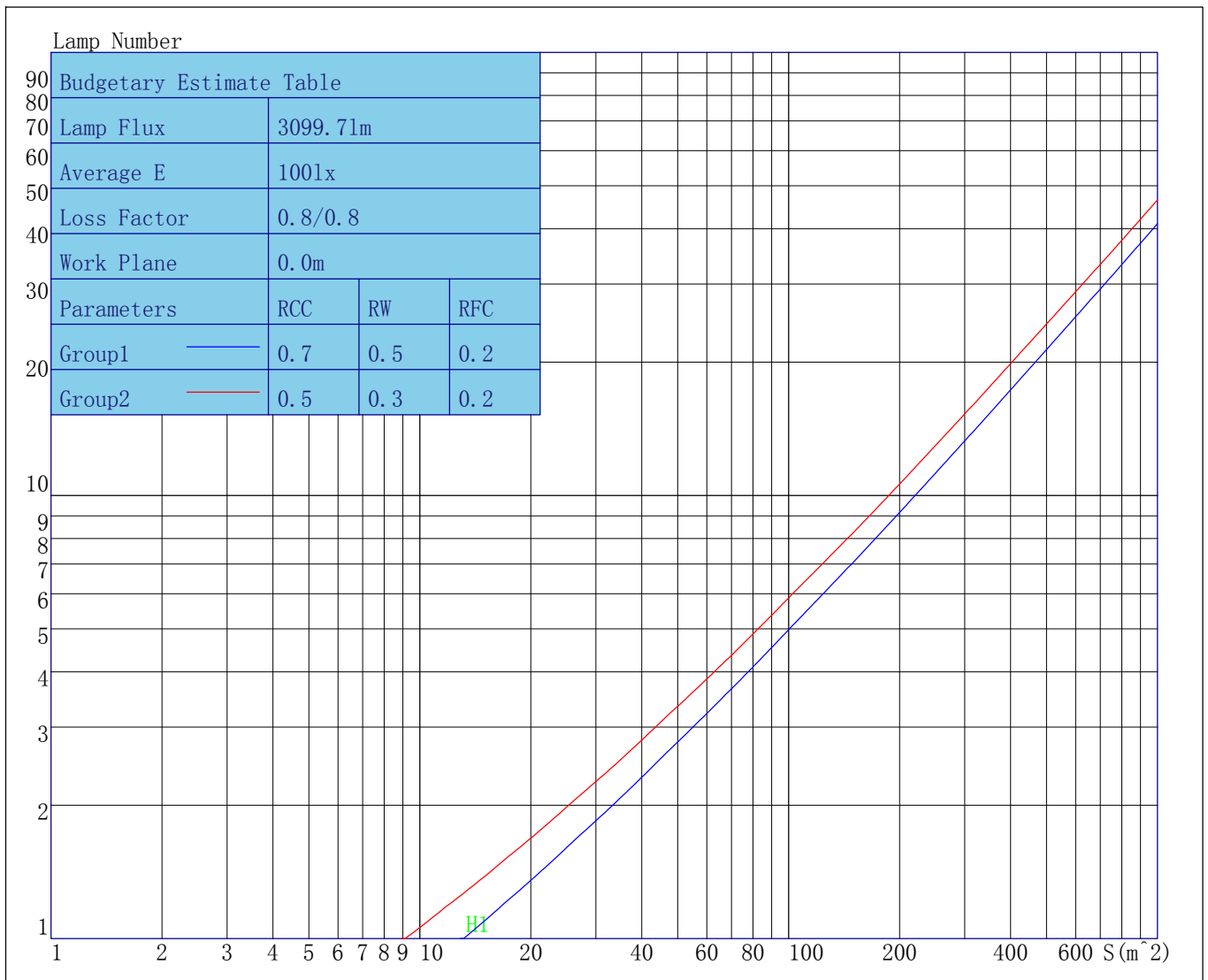
Luminance Limiting Curve



Luminous Size: Length(m)=1.500 Width(m)=0.080 Height(m)=0.000 Area(m²)=0.120000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11



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: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	98	94	90	97	93	90	86	84	82	79	76	74	72	69	67	65	62
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	81	72	65	59	65	59	55	59	54	51	53	50	47	43
4	78	67	58	52	74	64	56	50	58	52	47	53	47	43	48	43	40	37
5	72	59	51	45	68	57	49	43	52	45	40	47	42	38	43	38	35	32
6	66	53	45	39	63	51	43	38	47	40	35	43	37	33	39	34	31	28
7	61	48	40	34	58	46	39	33	43	36	31	39	33	29	35	31	27	25
8	57	44	36	30	54	42	35	30	39	32	28	36	30	26	33	28	24	22
9	53	40	33	27	50	39	31	26	36	29	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

IES Indoor Report
Photometric Filename:SPEND40-1500.IES

Unified Glare Rating Table

Lum. Name: SPEND40-1500	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog: LED	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/06/11

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	15.9	17.1	16.6	17.8	18.7	16.7	17.9	17.5	18.6	19.5
Y=3H	17.3	18.3	18.0	19.1	20.0	18.4	19.4	19.1	20.2	21.1
Y=4H	17.8	18.8	18.5	19.5	20.4	19.1	20.1	19.8	20.8	21.7
Y=6H	18.2	19.1	18.9	19.8	20.8	19.7	20.5	20.4	21.3	22.3
Y=8H	18.3	19.1	19.1	19.9	20.9	19.9	20.7	20.7	21.5	22.5
Y=12H	18.4	19.2	19.2	20.0	21.0	20.1	20.9	20.9	21.7	22.6
X=4H Y=2H	16.7	17.6	17.4	18.4	19.3	17.4	18.3	18.1	19.1	20.0
Y=3H	18.2	19.0	19.0	19.8	20.7	19.2	20.0	20.0	20.8	21.7
Y=4H	18.8	19.5	19.6	20.3	21.3	20.0	20.8	20.8	21.6	22.5
Y=6H	19.3	19.9	20.1	20.7	21.7	20.7	21.4	21.5	22.2	23.2
Y=8H	19.5	20.1	20.3	20.9	21.9	21.0	21.6	21.8	22.4	23.4
Y=12H	19.6	20.1	20.4	21.0	22.0	21.3	21.8	22.1	22.6	23.6
X=8H Y=4H	19.2	19.7	20.0	20.6	21.6	20.3	20.9	21.1	21.7	22.7
Y=6H	19.8	20.2	20.6	21.1	22.2	21.1	21.6	22.0	22.5	23.6
Y=8H	20.0	20.4	20.8	21.3	22.3	21.5	21.9	22.4	22.8	23.8
Y=12H	20.2	20.6	21.1	21.5	22.5	21.9	22.2	22.7	23.1	24.2
X=12H Y=4H	19.2	19.7	20.0	20.6	21.6	20.3	20.8	21.1	21.6	22.6
Y=6H	19.8	20.3	20.7	21.1	22.2	21.2	21.6	22.0	22.4	23.5
Y=8H	20.1	20.5	21.0	21.4	22.4	21.6	22.0	22.5	22.8	23.9
Variations with the objverer position at spacings										
S=1.0H	0.4/-0.4					0.4/-0.4				
S=1.5H	0.9/-0.9					0.7/-0.7				
S=2.0H	1.1/-1.3					0.8/-1.0				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	2.7					3.1				

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

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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	851.13	851.13	851.13	851.13	851.13	851.13	851.13	851.13	851.13	851.13	851.13	851.13
Y 1.0	856.83	852.22	849.04	847.91	848.34	849.40	858.08	854.14	850.73	848.93	847.67	848.18
Y 2.0	856.70	852.27	848.76	847.02	848.50	849.93	858.79	854.78	851.82	848.86	848.14	848.39
Y 3.0	855.21	851.12	847.66	845.68	847.86	849.78	858.57	854.87	852.18	848.33	848.22	847.39
Y 4.0	852.87	849.05	845.95	843.94	846.81	848.99	857.66	854.38	851.85	847.57	847.56	845.52
Y 5.0	850.40	846.48	843.80	842.10	845.47	847.86	856.29	853.34	851.16	846.48	846.28	843.32
Y 6.0	847.02	843.53	840.98	839.61	843.48	846.20	854.52	851.69	850.03	845.01	844.55	840.65
Y 7.0	843.68	840.05	837.92	837.05	840.97	844.28	852.28	849.92	848.51	843.24	842.47	837.43
Y 8.0	839.33	836.21	834.50	834.04	838.23	841.49	849.08	847.25	846.73	841.05	839.79	833.87
Y 9.0	834.85	831.71	830.53	830.64	835.12	837.98	845.77	844.14	844.39	838.56	836.80	829.67
Y 10.0	829.67	826.82	826.49	827.03	831.57	834.40	842.02	840.55	841.65	835.83	833.33	825.16
Y 11.0	824.46	821.56	821.85	823.06	827.90	830.32	837.83	836.69	838.61	832.69	829.61	820.17
Y 12.0	818.72	816.03	817.02	818.96	823.88	825.91	832.99	832.54	835.26	829.29	825.55	815.05
Y 13.0	812.66	810.31	811.82	814.27	819.37	821.09	828.06	828.01	831.35	825.60	821.22	809.65
Y 14.0	806.09	804.10	806.11	809.59	814.32	816.04	822.55	823.01	827.20	821.30	816.51	803.93
Y 15.0	799.16	797.57	800.15	804.29	808.95	810.69	816.79	817.71	822.31	816.85	811.25	797.61
Y 16.0	792.17	790.68	793.90	798.90	803.18	804.91	810.61	811.88	817.41	812.02	805.48	790.88
Y 17.0	784.69	783.69	787.38	793.12	797.36	798.69	803.90	805.74	812.03	806.96	799.48	783.94
Y 18.0	776.83	776.29	780.59	787.12	791.01	792.41	797.06	799.47	806.30	801.77	793.35	776.76
Y 19.0	768.78	768.59	773.52	780.72	784.54	785.47	790.01	792.76	800.41	796.18	786.97	769.24
Y 20.0	760.24	760.55	766.17	774.37	777.86	778.22	782.48	785.61	794.19	790.18	780.15	761.45
Y 21.0	751.32	752.08	758.60	767.23	770.63	770.60	774.73	778.06	787.62	783.93	773.08	753.17
Y 22.0	742.37	743.52	750.74	760.13	763.44	762.72	766.41	770.25	780.66	777.47	765.82	744.59
Y 23.0	733.09	734.65	742.74	752.78	755.80	754.55	757.83	762.34	773.42	770.75	758.20	735.77
Y 24.0	723.77	725.53	734.41	745.11	747.90	746.11	748.86	754.07	765.95	763.64	750.28	726.83
Y 25.0	713.92	716.19	725.89	737.21	739.69	737.37	739.96	745.45	758.38	756.22	742.13	717.62
Y 26.0	703.88	706.54	717.00	729.20	731.30	728.62	730.75	736.63	750.47	748.72	734.03	708.01
Y 27.0	693.61	696.71	708.08	720.78	722.57	719.22	721.24	727.51	742.27	740.62	725.43	698.31
Y 28.0	683.17	686.63	698.88	712.13	713.79	709.77	711.31	717.97	733.76	732.43	716.59	688.31
Y 29.0	672.79	676.33	689.53	703.37	704.78	700.27	701.24	708.44	724.88	724.11	707.28	678.25
Y 30.0	661.86	666.07	680.01	694.41	695.58	690.50	690.91	698.62	715.82	715.62	698.10	667.96
Y 31.0	650.84	655.41	670.03	685.16	685.95	680.48	680.50	688.59	706.66	706.70	688.71	657.35
Y 32.0	639.64	644.74	659.95	675.78	676.12	670.18	670.01	678.37	697.23	697.65	679.16	646.54
Y 33.0	628.20	633.63	649.70	666.06	666.15	659.73	659.11	667.81	687.47	688.23	669.20	635.65
Y 34.0	616.73	622.38	639.37	656.21	656.04	649.10	647.98	657.09	677.47	678.63	658.98	624.44
Y 35.0	605.15	611.24	628.66	646.23	645.76	638.41	636.71	646.31	667.17	668.84	648.48	613.27
Y 36.0	593.47	599.91	618.06	636.18	635.28	627.50	625.11	635.36	656.78	658.74	637.87	601.98
Y 37.0	581.56	588.46	607.33	625.71	624.60	616.50	613.58	624.13	646.24	648.72	627.05	590.61
Y 38.0	569.41	576.99	596.13	615.33	613.68	605.27	601.77	612.80	635.54	638.39	616.35	579.05
Y 39.0	557.21	565.09	585.01	604.55	602.60	593.77	590.00	601.28	624.60	627.59	605.28	567.24
Y 40.0	544.96	553.11	573.72	593.58	591.46	582.34	577.99	589.53	613.36	616.81	594.04	555.36
Y 41.0	532.68	541.09	562.44	582.76	580.17	570.67	565.74	577.83	601.88	606.04	582.52	543.29
Y 42.0	520.45	529.05	551.08	571.56	568.83	558.89	553.41	566.04	590.53	595.05	571.10	531.17
Y 43.0	508.24	516.89	539.40	560.44	557.33	547.01	541.17	554.01	579.04	583.67	559.58	518.98
Y 44.0	495.58	504.66	527.75	549.15	545.66	535.05	528.90	541.96	567.41	572.40	547.86	506.79
Y 45.0	483.03	492.23	515.83	537.45	533.78	522.80	516.40	529.58	555.64	560.97	536.12	494.46
Y 46.0	470.49	479.65	504.09	525.87	522.09	510.57	503.81	517.06	543.51	549.05	524.19	481.98

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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	457.98	467.27	492.15	514.09	510.22	498.35	491.06	504.61	531.34	537.36	511.89	469.40
Y 48.0	445.46	454.62	480.06	502.40	498.40	486.04	478.42	492.19	519.03	525.50	499.84	456.92
Y 49.0	432.69	442.06	467.99	490.41	486.27	473.59	465.79	479.64	506.85	513.57	487.54	444.55
Y 50.0	419.81	429.48	455.75	478.52	474.09	461.11	452.98	466.92	494.59	501.48	475.29	431.89
Y 51.0	406.92	416.74	443.39	466.15	461.87	448.33	440.17	454.06	482.16	489.09	462.89	419.12
Y 52.0	394.39	404.05	431.23	453.95	449.58	435.80	427.15	441.14	469.47	476.54	450.44	406.31
Y 53.0	381.54	391.40	418.87	441.61	437.33	423.07	414.11	428.41	456.83	463.96	437.70	393.52
Y 54.0	368.97	378.71	406.52	429.33	424.88	410.40	401.20	415.54	444.13	451.52	425.08	380.69
Y 55.0	356.08	365.96	394.11	416.92	412.65	397.55	388.35	402.71	431.43	438.98	412.39	368.02
Y 56.0	343.14	353.21	381.48	404.50	399.92	384.90	375.30	389.87	418.66	426.24	399.81	355.40
Y 57.0	330.38	340.34	368.91	391.68	387.28	371.94	362.28	376.81	405.81	413.36	386.97	342.64
Y 58.0	317.70	327.66	356.23	379.17	374.59	358.97	349.26	363.77	392.84	400.22	373.92	329.69
Y 59.0	305.11	315.06	343.70	366.46	362.19	346.24	336.15	350.93	379.63	387.31	360.76	316.96
Y 60.0	292.44	302.32	331.17	353.73	349.46	333.50	323.17	337.99	366.66	374.29	347.86	304.27
Y 61.0	279.96	289.82	318.56	341.06	336.91	320.77	310.45	324.99	353.72	361.42	335.02	291.63
Y 62.0	267.27	277.04	305.90	328.32	324.23	307.91	297.75	312.08	340.71	348.33	322.27	279.06
Y 63.0	254.69	264.43	293.16	315.41	311.33	294.95	284.78	299.16	327.72	335.15	309.31	266.48
Y 64.0	242.29	251.86	280.64	302.55	298.81	282.27	271.96	286.12	314.52	322.03	296.39	253.66
Y 65.0	230.04	239.55	268.12	289.83	286.29	269.57	258.86	273.28	301.27	308.77	283.22	241.23
Y 66.0	217.89	227.17	255.76	276.99	273.78	257.09	246.18	260.61	288.17	295.65	270.35	228.87
Y 67.0	205.75	214.91	243.13	264.35	261.12	244.52	233.64	247.93	275.15	282.64	257.58	216.65
Y 68.0	193.73	202.81	230.72	251.69	248.48	232.08	221.33	235.20	262.10	269.62	244.70	204.45
Y 69.0	181.78	190.61	218.38	238.99	235.81	219.46	208.86	222.44	249.23	256.47	231.80	192.43
Y 70.0	170.16	178.66	206.10	226.31	223.37	207.08	196.45	209.77	236.13	243.14	218.90	180.20
Y 71.0	158.75	167.02	194.13	213.94	211.02	194.70	184.05	197.42	223.17	230.13	206.11	168.24
Y 72.0	147.69	155.43	182.06	201.72	198.87	182.69	172.01	185.11	210.38	217.14	193.76	156.61
Y 73.0	136.66	144.21	170.21	189.46	186.70	170.69	160.22	172.97	197.74	204.56	181.37	145.19
Y 74.0	126.03	133.06	158.42	177.41	174.61	158.90	148.66	160.77	185.12	191.96	169.04	133.90
Y 75.0	115.76	122.09	146.76	165.19	162.64	147.19	137.30	149.01	172.79	179.27	156.93	122.74
Y 76.0	105.61	111.44	135.38	153.31	150.98	135.68	126.04	137.15	160.48	166.67	144.89	111.89
Y 77.0	96.24	101.19	124.26	141.83	139.56	124.45	115.11	125.75	148.29	154.55	132.87	101.48
Y 78.0	87.34	91.54	113.32	130.57	128.24	113.55	104.46	114.52	136.29	142.49	121.22	91.47
Y 79.0	78.92	82.24	102.46	119.63	117.09	102.92	94.47	103.58	124.54	130.52	110.03	81.97
Y 80.0	70.86	73.57	91.79	108.68	105.87	92.80	85.00	93.23	112.90	118.87	98.88	72.93
Y 81.0	63.36	65.44	81.32	98.08	94.93	82.93	76.02	83.19	101.38	107.44	88.08	64.43
Y 82.0	56.18	57.93	71.51	87.93	84.44	73.86	67.72	73.72	90.27	96.41	77.46	56.54
Y 83.0	49.38	50.83	62.34	78.07	74.36	65.62	59.97	65.01	79.37	85.69	67.21	49.17
Y 84.0	43.40	44.20	53.77	68.62	64.64	58.01	52.65	56.96	68.80	75.36	57.46	42.10
Y 85.0	37.78	38.28	46.11	59.38	55.41	50.66	45.97	49.44	58.96	65.31	48.58	36.06
Y 86.0	32.99	33.19	38.90	50.61	47.26	44.33	40.11	42.44	49.76	55.69	40.74	30.37
Y 87.0	29.24	29.15	32.84	42.19	39.79	38.76	34.77	36.59	41.53	46.28	33.47	25.82
Y 88.0	27.07	26.66	28.70	34.34	33.76	33.51	29.69	30.92	34.07	37.63	27.18	22.52
Y 89.0	26.53	26.13	27.67	27.71	29.08	29.49	25.57	26.35	28.06	29.68	22.43	21.25
Y 90.0	26.26	25.96	27.29	25.81	27.52	26.99	22.66	22.91	23.08	22.97	20.90	21.11
Y 91.0	26.71	26.65	28.56	26.06	27.25	26.65	21.90	22.07	21.38	21.09	20.89	21.21
Y 92.0	28.43	28.64	30.75	27.92	28.58	26.57	21.94	21.85	21.29	21.82	22.11	22.81
Y 93.0	30.29	30.80	32.48	30.33	30.66	27.81	22.49	22.58	22.53	23.70	24.42	24.95

IES Indoor Report
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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	32.53	33.09	33.96	32.68	32.09	29.74	24.24	24.44	24.84	25.62	26.36	27.28
Y 95.0	34.52	34.83	35.47	34.14	33.69	31.71	26.42	26.68	26.86	26.96	28.29	28.91
Y 96.0	36.24	36.80	36.87	35.50	35.17	33.68	28.86	28.93	28.80	27.65	30.01	30.75
Y 97.0	37.84	38.57	38.61	37.13	36.60	35.36	31.02	30.69	30.54	28.91	31.52	32.78
Y 98.0	39.57	40.22	40.39	38.75	38.13	37.26	32.93	32.59	32.20	29.00	33.39	34.74
Y 99.0	41.19	41.60	42.61	40.45	39.88	38.64	34.83	34.55	34.05	29.69	34.75	36.43
Y 100.0	42.72	42.58	45.35	42.29	41.95	39.76	36.78	35.80	35.94	30.53	37.47	37.52
Y 101.0	43.28	43.69	47.91	43.19	44.16	41.06	38.16	37.29	37.94	31.73	40.06	38.79
Y 102.0	44.29	44.93	50.34	43.79	46.18	42.39	39.86	38.58	39.81	32.75	42.97	40.03
Y 103.0	45.44	46.15	53.91	44.30	49.15	43.89	41.44	39.89	41.88	35.03	45.59	41.14
Y 104.0	46.78	47.15	57.74	44.79	52.38	45.11	43.07	41.27	44.74	37.61	47.92	42.40
Y 105.0	48.32	48.56	61.32	45.09	55.21	46.58	44.71	42.79	47.49	39.87	48.98	43.88
Y 106.0	49.65	49.97	64.83	45.37	58.40	47.87	46.27	44.28	50.04	42.29	51.37	45.37
Y 107.0	51.04	51.14	69.08	45.55	62.53	48.79	47.83	45.56	53.29	43.74	56.10	46.54
Y 108.0	52.40	52.38	73.76	45.76	67.07	49.82	49.34	46.59	57.42	44.60	62.17	47.72
Y 109.0	53.58	54.33	79.75	45.96	72.13	51.53	50.86	47.98	61.98	44.36	68.40	49.72
Y 110.0	54.82	56.77	85.45	46.14	77.57	53.55	52.37	49.87	66.87	43.46	74.77	52.38
Y 111.0	56.16	59.14	91.85	46.24	83.34	55.28	53.75	51.99	72.18	42.46	80.88	54.81
Y 112.0	57.93	61.82	97.57	46.19	89.35	57.02	55.49	53.90	77.98	41.43	87.13	57.39
Y 113.0	59.67	64.76	103.04	46.11	94.39	59.18	57.00	55.76	84.15	40.37	93.37	60.26
Y 114.0	61.56	68.22	108.24	45.89	97.27	61.53	58.58	58.02	90.29	39.28	96.49	62.92
Y 115.0	63.62	71.90	112.08	45.63	101.33	64.13	60.20	60.51	95.93	38.35	97.68	65.21
Y 116.0	65.97	75.16	116.18	45.28	107.51	67.00	61.91	63.08	99.33	37.42	99.86	68.30
Y 117.0	68.60	78.98	123.82	44.96	115.03	70.48	63.79	66.16	102.96	36.41	105.49	70.45
Y 118.0	71.59	82.49	132.38	44.84	123.30	74.33	65.92	69.68	109.68	35.44	111.76	73.63
Y 119.0	75.21	87.41	138.65	44.21	132.05	78.79	68.40	73.46	117.60	34.48	118.38	79.15
Y 120.0	79.17	94.10	146.17	43.08	141.00	83.51	71.07	78.21	126.41	33.62	124.94	85.39
Y 121.0	82.93	102.16	152.69	43.03	150.26	89.03	74.19	82.81	135.37	32.22	130.95	93.92
Y 122.0	87.23	112.15	160.18	41.76	159.49	95.27	77.73	88.73	144.24	31.53	135.42	105.22
Y 123.0	90.59	120.72	167.14	41.27	167.48	101.85	81.91	95.13	153.20	29.84	137.72	114.40
Y 124.0	96.36	131.16	175.38	40.32	176.73	109.72	86.76	101.92	161.50	29.39	134.38	123.67
Y 125.0	103.13	142.97	182.35	39.52	185.35	118.38	92.19	109.81	170.73	27.44	138.40	135.68
Y 126.0	113.11	152.23	187.90	38.38	193.88	126.60	98.41	119.05	179.20	26.99	142.65	146.87
Y 127.0	124.72	163.60	194.21	38.06	204.56	135.31	105.40	127.84	187.53	26.98	149.03	156.09
Y 128.0	138.03	175.30	199.42	36.28	214.11	143.49	113.51	136.69	196.31	27.13	155.46	166.78
Y 129.0	150.68	188.01	204.45	36.27	223.94	153.32	122.65	145.52	205.68	27.27	157.66	177.31
Y 130.0	163.17	196.12	208.21	33.86	232.94	163.15	132.10	154.47	216.15	27.42	162.74	184.59
Y 131.0	176.40	208.76	213.33	33.40	242.04	175.34	142.45	166.05	225.71	27.60	166.85	195.93
Y 132.0	189.05	221.36	217.18	32.94	251.60	188.10	151.92	178.48	236.29	27.78	169.31	203.23
Y 133.0	203.51	229.77	222.48	30.41	261.41	201.15	162.05	191.76	244.92	28.07	175.37	209.20
Y 134.0	213.47	238.21	225.38	30.39	270.51	214.92	173.12	205.48	254.33	28.39	179.21	216.77
Y 135.0	229.28	246.23	229.57	30.03	279.66	229.32	187.31	219.59	262.01	28.54	180.98	226.29
Y 136.0	246.00	254.02	230.29	27.68	285.76	243.77	202.30	233.90	269.07	28.89	185.55	232.60
Y 137.0	261.27	262.59	233.10	27.51	293.69	257.37	218.05	247.16	278.63	29.13	187.22	232.57
Y 138.0	277.98	270.19	234.34	27.78	299.74	270.27	234.18	259.69	287.19	29.44	188.68	231.15
Y 139.0	293.09	275.58	235.21	27.93	305.90	283.50	250.08	273.15	294.64	29.65	192.16	226.59
Y 140.0	306.21	280.21	234.22	28.13	311.13	296.49	265.71	286.49	301.19	29.91	191.45	234.00

