

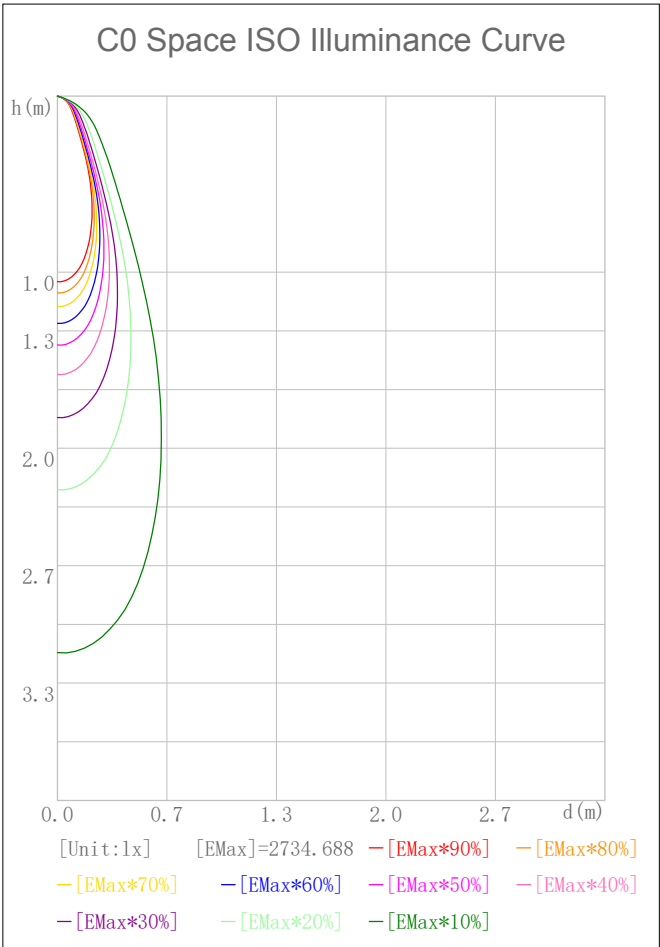
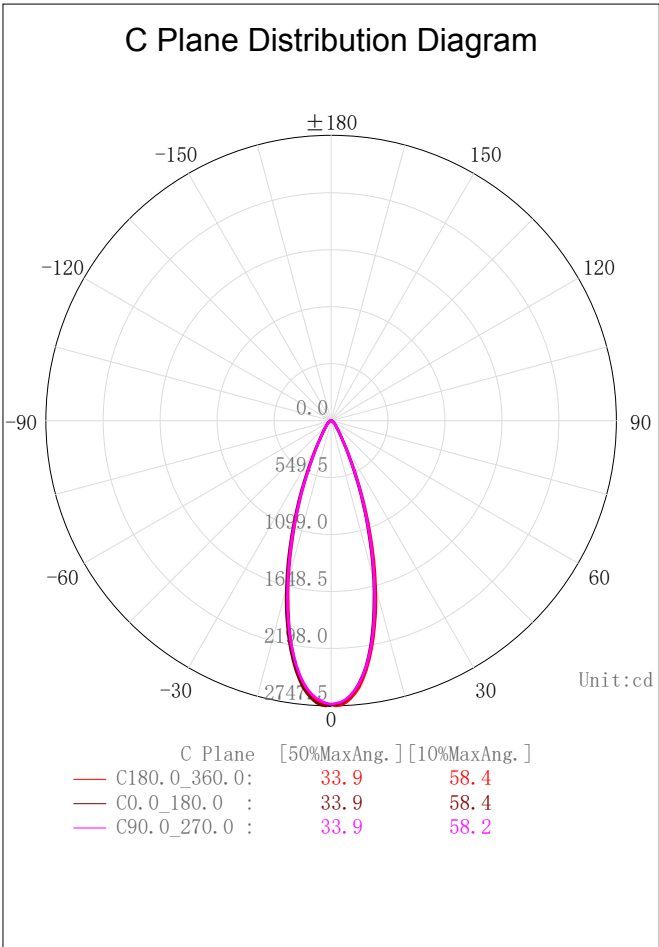
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 55252		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2018/11/30
Manufacture:		Shld. Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.050m*-0.050m*0.000m		Lum. Area (m2):0.002	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity(%): 50.0

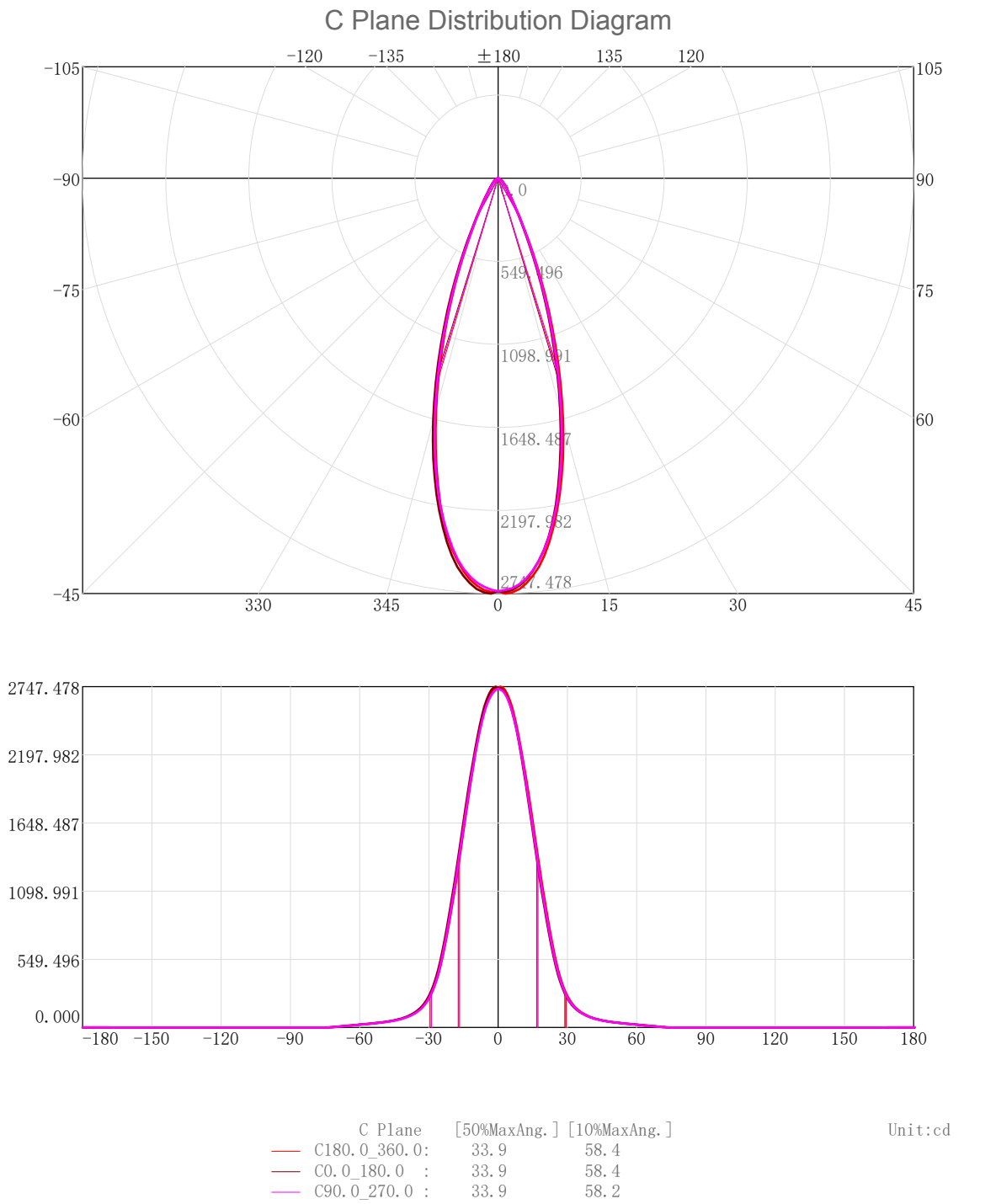
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1094.730	Luminary Flux(lm): 1094.732	Field Angle(10%Imax): 58.4(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1094.602lm 99.99%	
Rated Voltage(V):	Luminary EER(lm/W): 83.250	Up Lumens&Percent: 0.130lm 0.01%	
Tested Power(W): 13.150	Max. Candela(cd): 2747.478	S/MH: C0_a180=0.563 C90_270=0.560	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):219.7, 0.107, 0.558	Beam Angle(50%Imax): 33.9(°)	ErP Φ use(90°): 1029.764lm	
Lamp Size (W*L*H):0.050m*-0.050m*0.000m	Left=-16.7°, Right=17.3°	IRF(%): 532.354	



2D Plane Light Intensity Distribution Curve

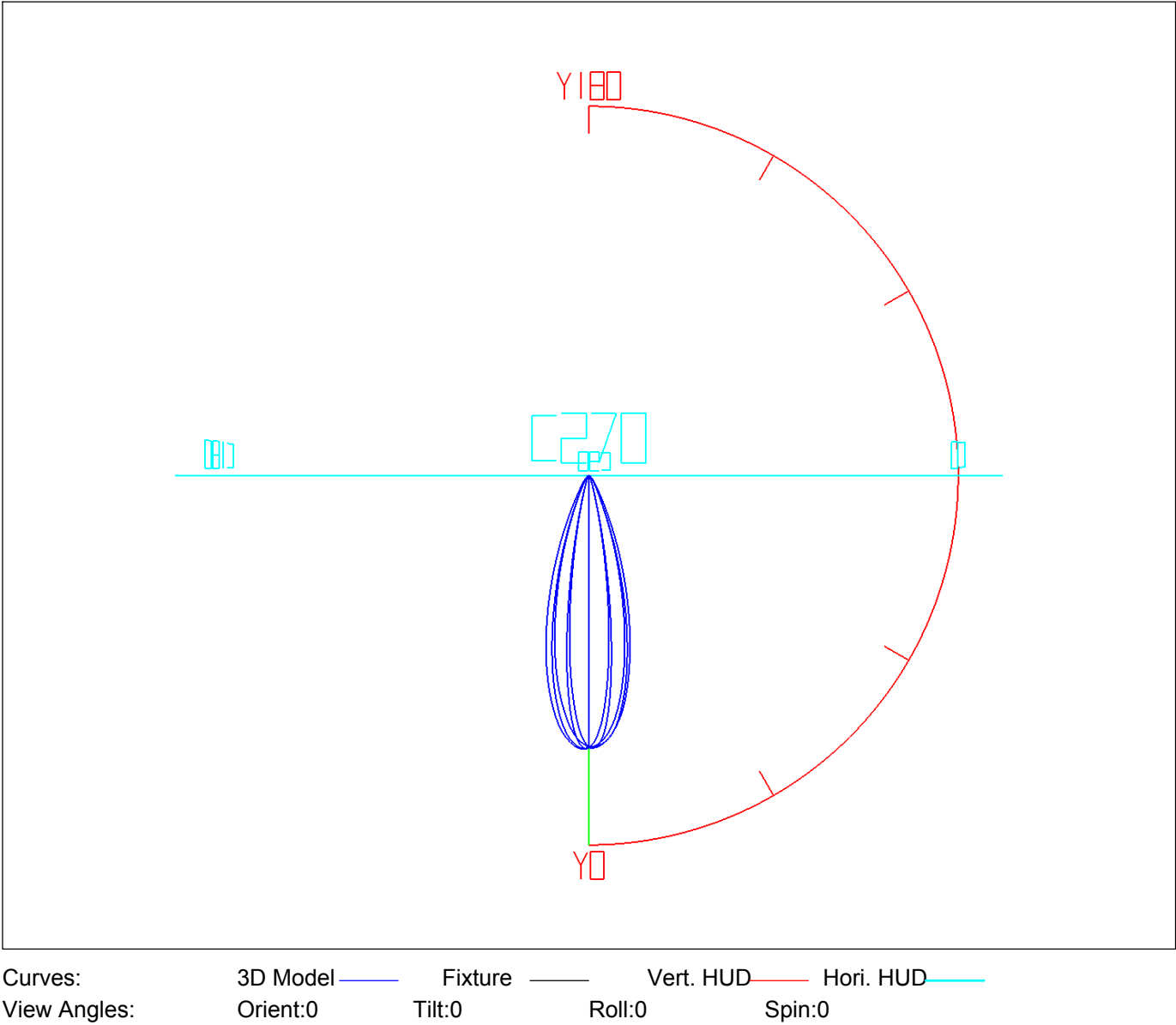
Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30



3D Light Intensity Distribution Modal

Lum. Name: 55252	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

3D Light Intensity Distribution Modal



IES Indoor Report
Photometric Filename:SL-15W-COB-1500-A -36°.IES

Zonal Flux Tabulation

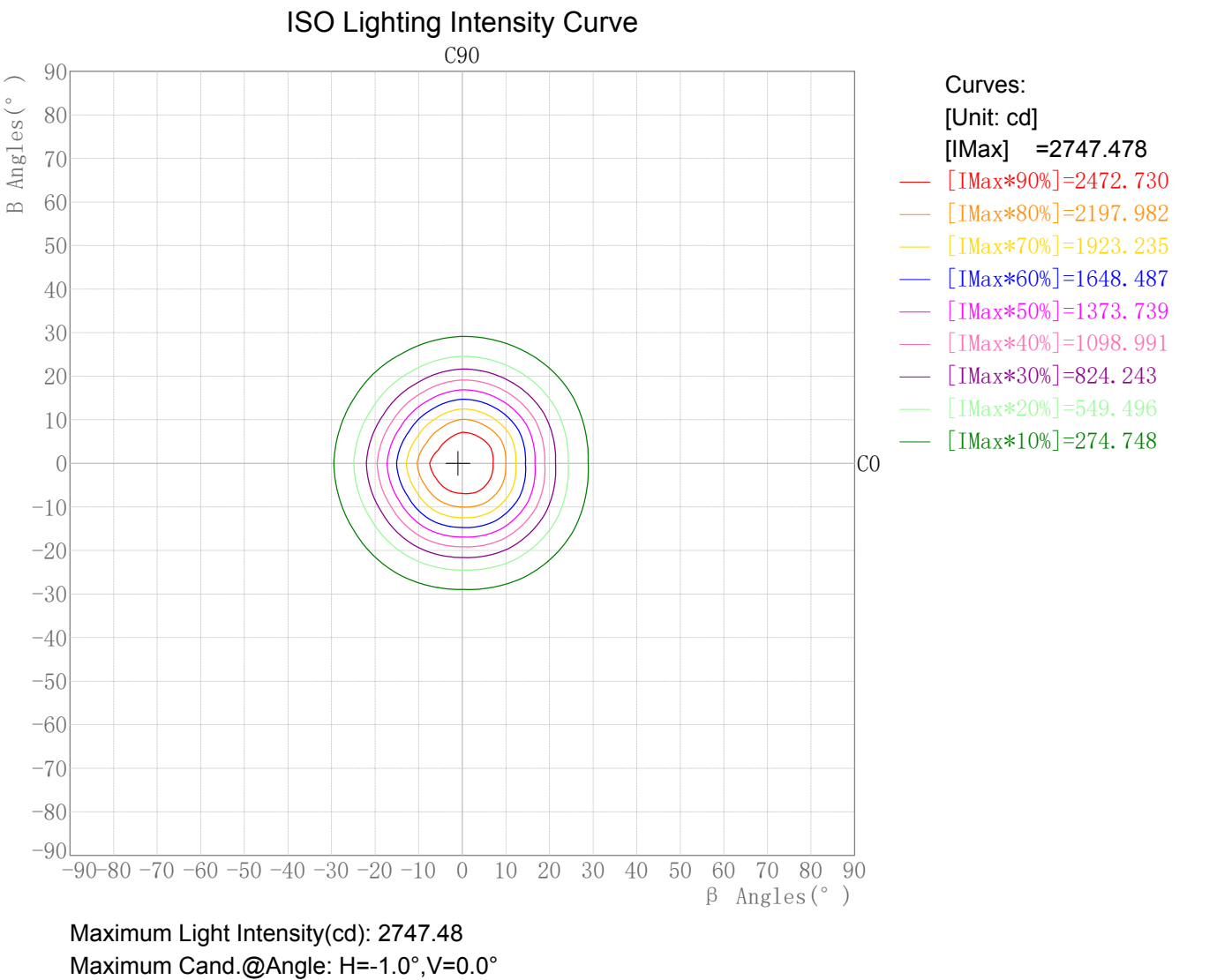
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	2.61	2.61	0.24	0.24	47.0-48.0	3.93	1042.96	0.36	95.27
1.0-2.0	7.80	10.42	0.71	0.95	48.0-49.0	3.77	1046.73	0.34	95.61
2.0-3.0	12.91	23.33	1.18	2.13	49.0-50.0	3.62	1050.34	0.33	95.95
3.0-4.0	17.87	41.20	1.63	3.76	50.0-51.0	3.48	1053.82	0.32	96.26
4.0-5.0	22.61	63.81	2.07	5.83	51.0-52.0	3.34	1057.16	0.31	96.57
5.0-6.0	27.07	90.87	2.47	8.30	52.0-53.0	3.21	1060.37	0.29	96.86
6.0-7.0	31.17	122.04	2.85	11.15	53.0-54.0	3.07	1063.44	0.28	97.14
7.0-8.0	34.84	156.88	3.18	14.33	54.0-55.0	2.94	1066.38	0.27	97.41
8.0-9.0	38.06	194.94	3.48	17.81	55.0-56.0	2.80	1069.18	0.26	97.67
9.0-10.0	40.77	235.71	3.72	21.53	56.0-57.0	2.67	1071.86	0.24	97.91
10.0-11.0	42.97	278.68	3.92	25.46	57.0-58.0	2.54	1074.40	0.23	98.14
11.0-12.0	44.59	323.26	4.07	29.53	58.0-59.0	2.41	1076.81	0.22	98.36
12.0-13.0	45.62	368.89	4.17	33.70	59.0-60.0	2.28	1079.08	0.21	98.57
13.0-14.0	46.12	415.01	4.21	37.91	60.0-61.0	2.14	1081.22	0.20	98.77
14.0-15.0	46.08	461.08	4.21	42.12	61.0-62.0	1.99	1083.21	0.18	98.95
15.0-16.0	45.51	506.60	4.16	46.28	62.0-63.0	1.83	1085.04	0.17	99.11
16.0-17.0	44.46	551.06	4.06	50.34	63.0-64.0	1.67	1086.71	0.15	99.27
17.0-18.0	42.96	594.02	3.92	54.26	64.0-65.0	1.50	1088.21	0.14	99.40
18.0-19.0	41.08	635.10	3.75	58.01	65.0-66.0	1.35	1089.56	0.12	99.53
19.0-20.0	38.89	673.99	3.55	61.57	66.0-67.0	1.20	1090.77	0.11	99.64
20.0-21.0	36.46	710.45	3.33	64.90	67.0-68.0	1.04	1091.80	0.09	99.73
21.0-22.0	33.82	744.27	3.09	67.99	68.0-69.0	0.87	1092.68	0.08	99.81
22.0-23.0	31.02	775.29	2.83	70.82	69.0-70.0	0.70	1093.38	0.06	99.88
23.0-24.0	28.12	803.41	2.57	73.39	70.0-71.0	0.54	1093.92	0.05	99.93
24.0-25.0	25.24	828.65	2.31	75.69	71.0-72.0	0.37	1094.29	0.03	99.96
25.0-26.0	22.50	851.15	2.06	77.75	72.0-73.0	0.22	1094.51	0.02	99.98
26.0-27.0	19.97	871.12	1.82	79.57	73.0-74.0	0.08	1094.59	0.01	99.99
27.0-28.0	17.72	888.85	1.62	81.19	74.0-75.0	0.01	1094.60	0.00	99.99
28.0-29.0	15.77	904.61	1.44	82.63	75.0-76.0	0.00	1094.60	0.00	99.99
29.0-30.0	14.07	918.68	1.29	83.92	76.0-77.0	0.00	1094.60	0.00	99.99
30.0-31.0	12.61	931.29	1.15	85.07	77.0-78.0	0.00	1094.60	0.00	99.99
31.0-32.0	11.36	942.65	1.04	86.11	78.0-79.0	0.00	1094.60	0.00	99.99
32.0-33.0	10.30	952.95	0.94	87.05	79.0-80.0	0.00	1094.60	0.00	99.99
33.0-34.0	9.40	962.35	0.86	87.91	80.0-81.0	0.00	1094.60	0.00	99.99
34.0-35.0	8.63	970.98	0.79	88.70	81.0-82.0	0.00	1094.60	0.00	99.99
35.0-36.0	7.95	978.92	0.73	89.42	82.0-83.0	0.00	1094.60	0.00	99.99
36.0-37.0	7.35	986.28	0.67	90.09	83.0-84.0	0.00	1094.60	0.00	99.99
37.0-38.0	6.84	993.11	0.62	90.72	84.0-85.0	0.00	1094.60	0.00	99.99
38.0-39.0	6.39	999.50	0.58	91.30	85.0-86.0	0.00	1094.60	0.00	99.99
39.0-40.0	5.98	1005.48	0.55	91.85	86.0-87.0	0.00	1094.60	0.00	99.99
40.0-41.0	5.62	1011.09	0.51	92.36	87.0-88.0	0.00	1094.60	0.00	99.99
41.0-42.0	5.29	1016.39	0.48	92.84	88.0-89.0	0.00	1094.60	0.00	99.99
42.0-43.0	5.00	1021.38	0.46	93.30	89.0-90.0	0.00	1094.60	0.00	99.99
43.0-44.0	4.73	1026.12	0.43	93.73	90.0-91.0	0.00	1094.60	0.00	99.99
44.0-45.0	4.50	1030.62	0.41	94.14	91.0-92.0	0.00	1094.60	0.00	99.99
45.0-46.0	4.30	1034.91	0.39	94.54	92.0-93.0	0.00	1094.60	0.00	99.99
46.0-47.0	4.11	1039.02	0.38	94.91	93.0-94.0	0.00	1094.60	0.00	99.99

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	0.00	1094.60	0.00	99.99	141.0-142.0	0.00	1094.60	0.00	99.99
95.0-96.0	0.00	1094.60	0.00	99.99	142.0-143.0	0.00	1094.60	0.00	99.99
96.0-97.0	0.00	1094.60	0.00	99.99	143.0-144.0	0.00	1094.60	0.00	99.99
97.0-98.0	0.00	1094.60	0.00	99.99	144.0-145.0	0.00	1094.60	0.00	99.99
98.0-99.0	0.00	1094.60	0.00	99.99	145.0-146.0	0.00	1094.60	0.00	99.99
99.0-100.0	0.00	1094.60	0.00	99.99	146.0-147.0	0.00	1094.60	0.00	99.99
100.0-101.0	0.00	1094.60	0.00	99.99	147.0-148.0	0.00	1094.60	0.00	99.99
101.0-102.0	0.00	1094.60	0.00	99.99	148.0-149.0	0.00	1094.60	0.00	99.99
102.0-103.0	0.00	1094.60	0.00	99.99	149.0-150.0	0.00	1094.60	0.00	99.99
103.0-104.0	0.00	1094.60	0.00	99.99	150.0-151.0	0.00	1094.60	0.00	99.99
104.0-105.0	0.00	1094.60	0.00	99.99	151.0-152.0	0.00	1094.60	0.00	99.99
105.0-106.0	0.00	1094.60	0.00	99.99	152.0-153.0	0.00	1094.60	0.00	99.99
106.0-107.0	0.00	1094.60	0.00	99.99	153.0-154.0	0.00	1094.60	0.00	99.99
107.0-108.0	0.00	1094.60	0.00	99.99	154.0-155.0	0.00	1094.60	0.00	99.99
108.0-109.0	0.00	1094.60	0.00	99.99	155.0-156.0	0.00	1094.60	0.00	99.99
109.0-110.0	0.00	1094.60	0.00	99.99	156.0-157.0	0.00	1094.60	0.00	99.99
110.0-111.0	0.00	1094.60	0.00	99.99	157.0-158.0	0.00	1094.60	0.00	99.99
111.0-112.0	0.00	1094.60	0.00	99.99	158.0-159.0	0.00	1094.60	0.00	99.99
112.0-113.0	0.00	1094.60	0.00	99.99	159.0-160.0	0.00	1094.60	0.00	99.99
113.0-114.0	0.00	1094.60	0.00	99.99	160.0-161.0	0.00	1094.60	0.00	99.99
114.0-115.0	0.00	1094.60	0.00	99.99	161.0-162.0	0.00	1094.60	0.00	99.99
115.0-116.0	0.00	1094.60	0.00	99.99	162.0-163.0	0.00	1094.60	0.00	99.99
116.0-117.0	0.00	1094.60	0.00	99.99	163.0-164.0	0.00	1094.60	0.00	99.99
117.0-118.0	0.00	1094.60	0.00	99.99	164.0-165.0	0.00	1094.61	0.00	99.99
118.0-119.0	0.00	1094.60	0.00	99.99	165.0-166.0	0.01	1094.61	0.00	99.99
119.0-120.0	0.00	1094.60	0.00	99.99	166.0-167.0	0.01	1094.62	0.00	99.99
120.0-121.0	0.00	1094.60	0.00	99.99	167.0-168.0	0.01	1094.63	0.00	99.99
121.0-122.0	0.00	1094.60	0.00	99.99	168.0-169.0	0.01	1094.64	0.00	99.99
122.0-123.0	0.00	1094.60	0.00	99.99	169.0-170.0	0.01	1094.65	0.00	99.99
123.0-124.0	0.00	1094.60	0.00	99.99	170.0-171.0	0.01	1094.66	0.00	99.99
124.0-125.0	0.00	1094.60	0.00	99.99	171.0-172.0	0.01	1094.67	0.00	99.99
125.0-126.0	0.00	1094.60	0.00	99.99	172.0-173.0	0.01	1094.69	0.00	100.00
126.0-127.0	0.00	1094.60	0.00	99.99	173.0-174.0	0.01	1094.70	0.00	100.00
127.0-128.0	0.00	1094.60	0.00	99.99	174.0-175.0	0.01	1094.71	0.00	100.00
128.0-129.0	0.00	1094.60	0.00	99.99	175.0-176.0	0.01	1094.72	0.00	100.00
129.0-130.0	0.00	1094.60	0.00	99.99	176.0-177.0	0.01	1094.72	0.00	100.00
130.0-131.0	0.00	1094.60	0.00	99.99	177.0-178.0	0.01	1094.73	0.00	100.00
131.0-132.0	0.00	1094.60	0.00	99.99	178.0-179.0	0.00	1094.73	0.00	100.00
132.0-133.0	0.00	1094.60	0.00	99.99	179.0-180.0	0.00	1094.73	0.00	100.00
133.0-134.0	0.00	1094.60	0.00	99.99					
134.0-135.0	0.00	1094.60	0.00	99.99					
135.0-136.0	0.00	1094.60	0.00	99.99					
136.0-137.0	0.00	1094.60	0.00	99.99					
137.0-138.0	0.00	1094.60	0.00	99.99					
138.0-139.0	0.00	1094.60	0.00	99.99					
139.0-140.0	0.00	1094.60	0.00	99.99					
140.0-141.0	0.00	1094.60	0.00	99.99					

Rectangle ISO Lighting Intensity Diagram

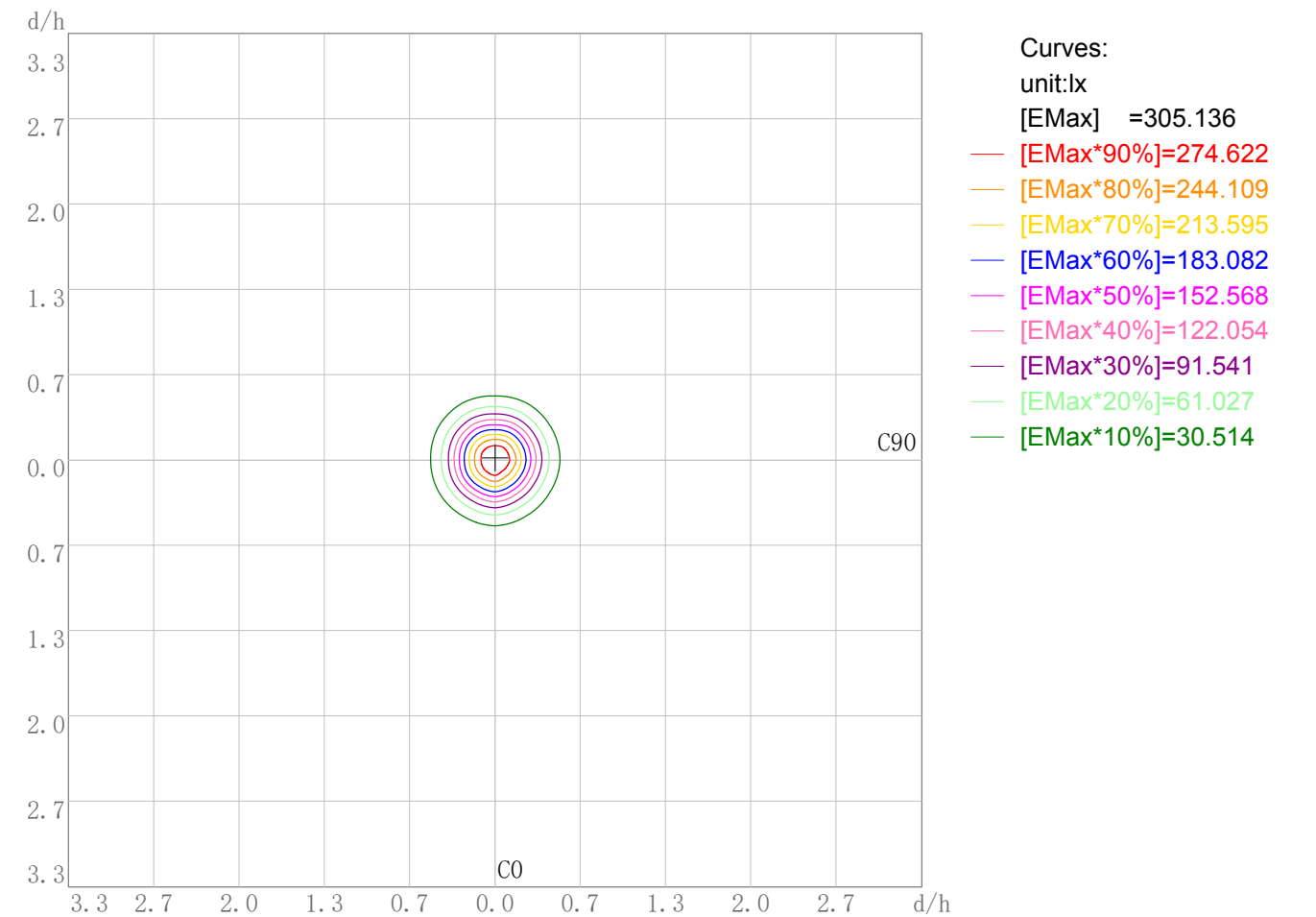
Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30



Plane ISO-Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

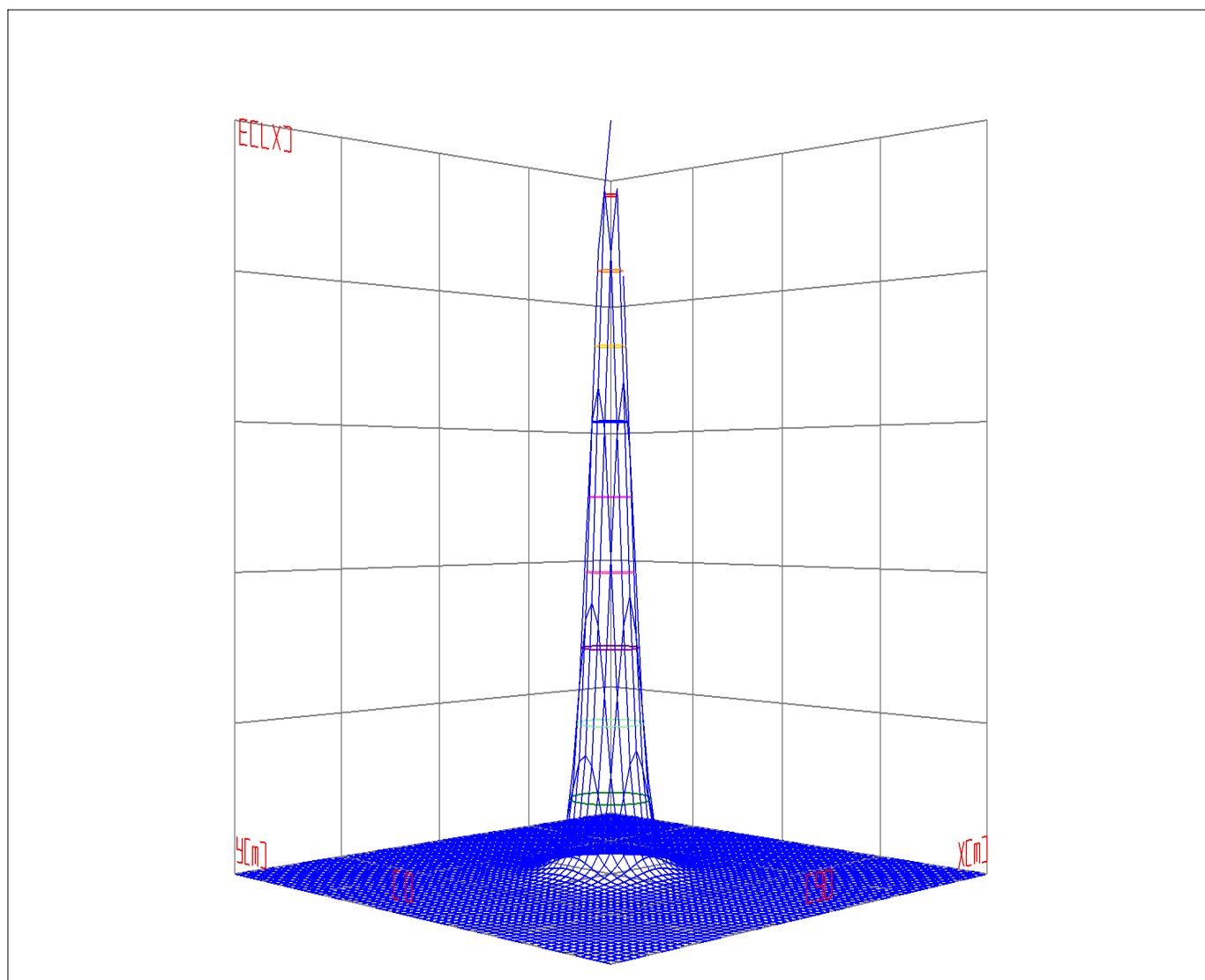
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

3D Plane Illuminance Modal

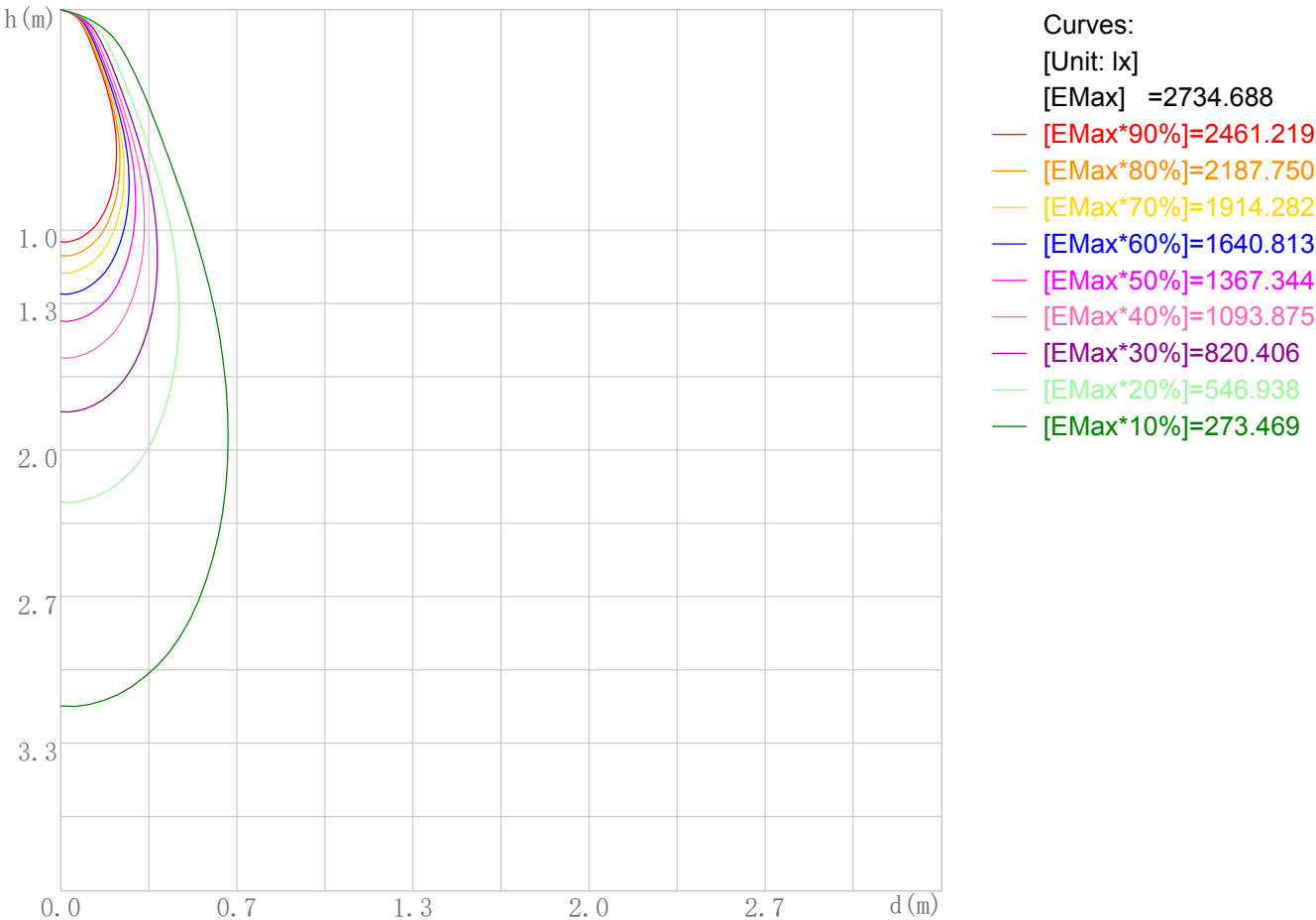


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
 View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

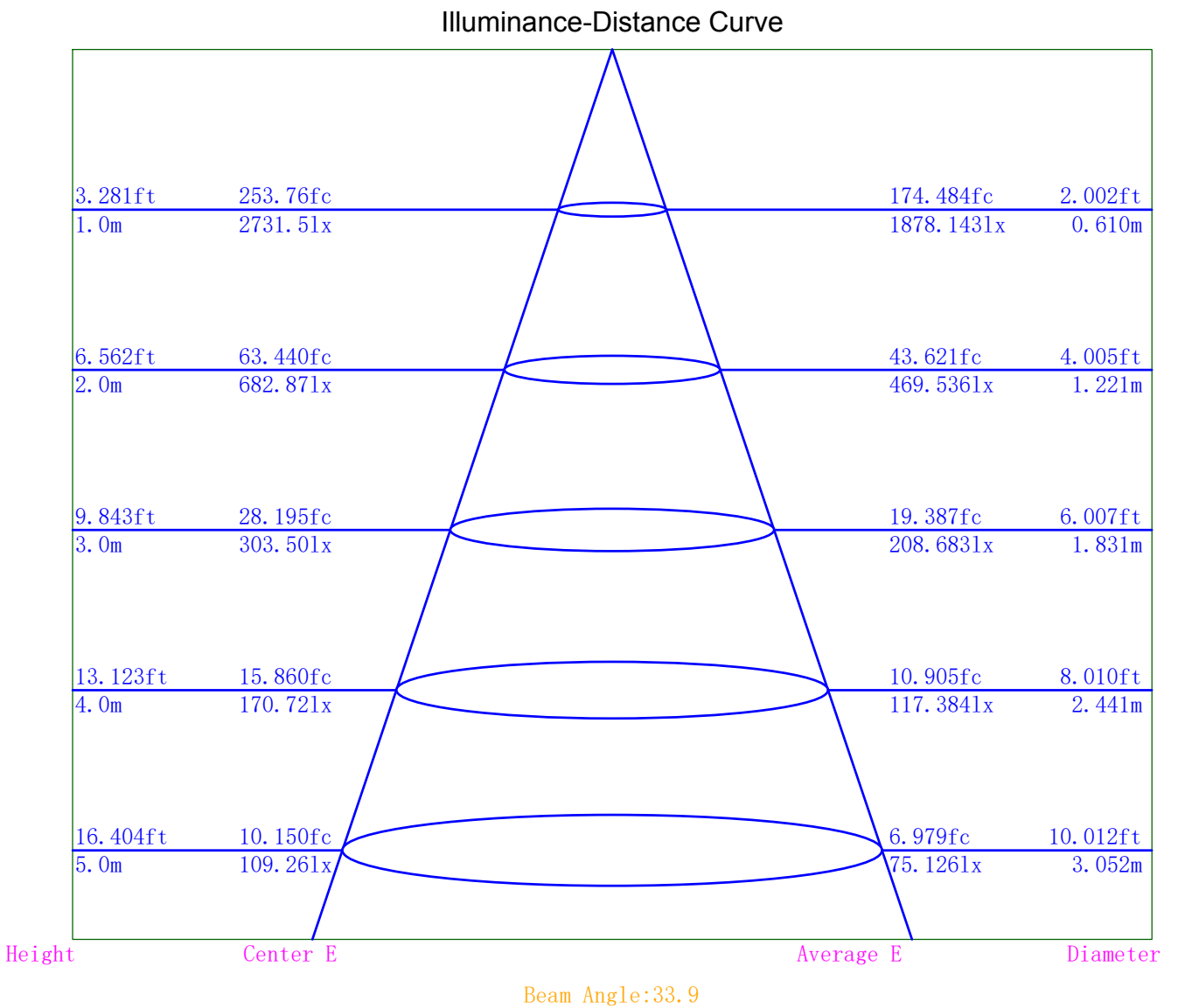
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:2734.69lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:2735.938cd,0deg

Illuminance-Distance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30



Indoor Luminance Limiting Curves

Table with 3 columns: Lum. Name, Lum. Catalog, Test ID, Lamp Name, Lamp Catalog, Test Lab, Manufacture, Test Machine, Test Date.

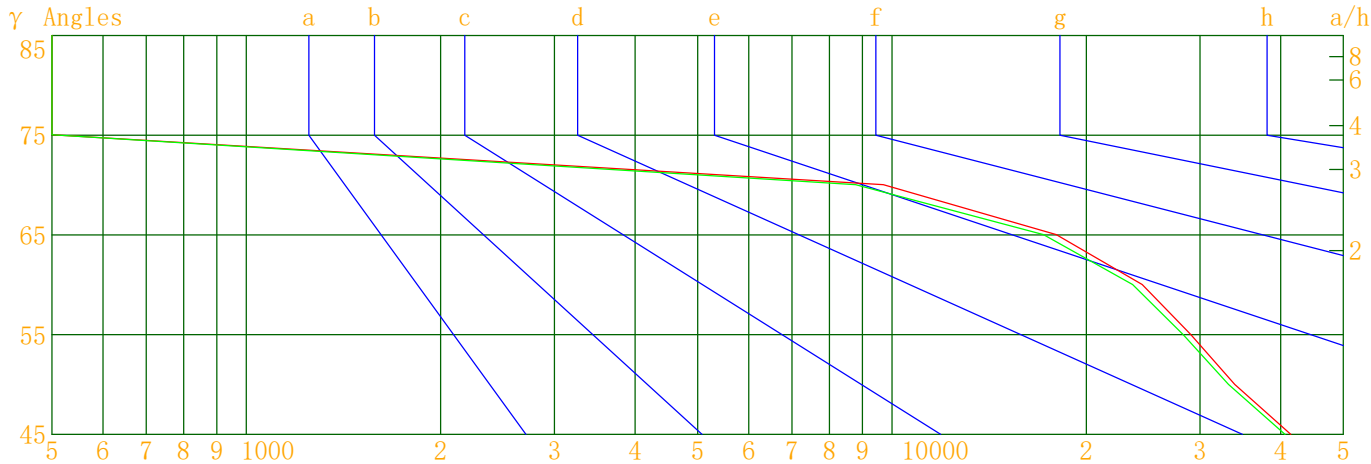
Glare Grade Table

Table with 10 columns: GI, Quality, and 8 columns for Using Illuminance (2000, 1000, 500, <=300, etc.).

Luminance Table

Table with 10 columns: Gama (deg), 45, 50, 55, 60, 65, 70, 75, 80, 85, and 3 rows of luminance data (C0, C90).

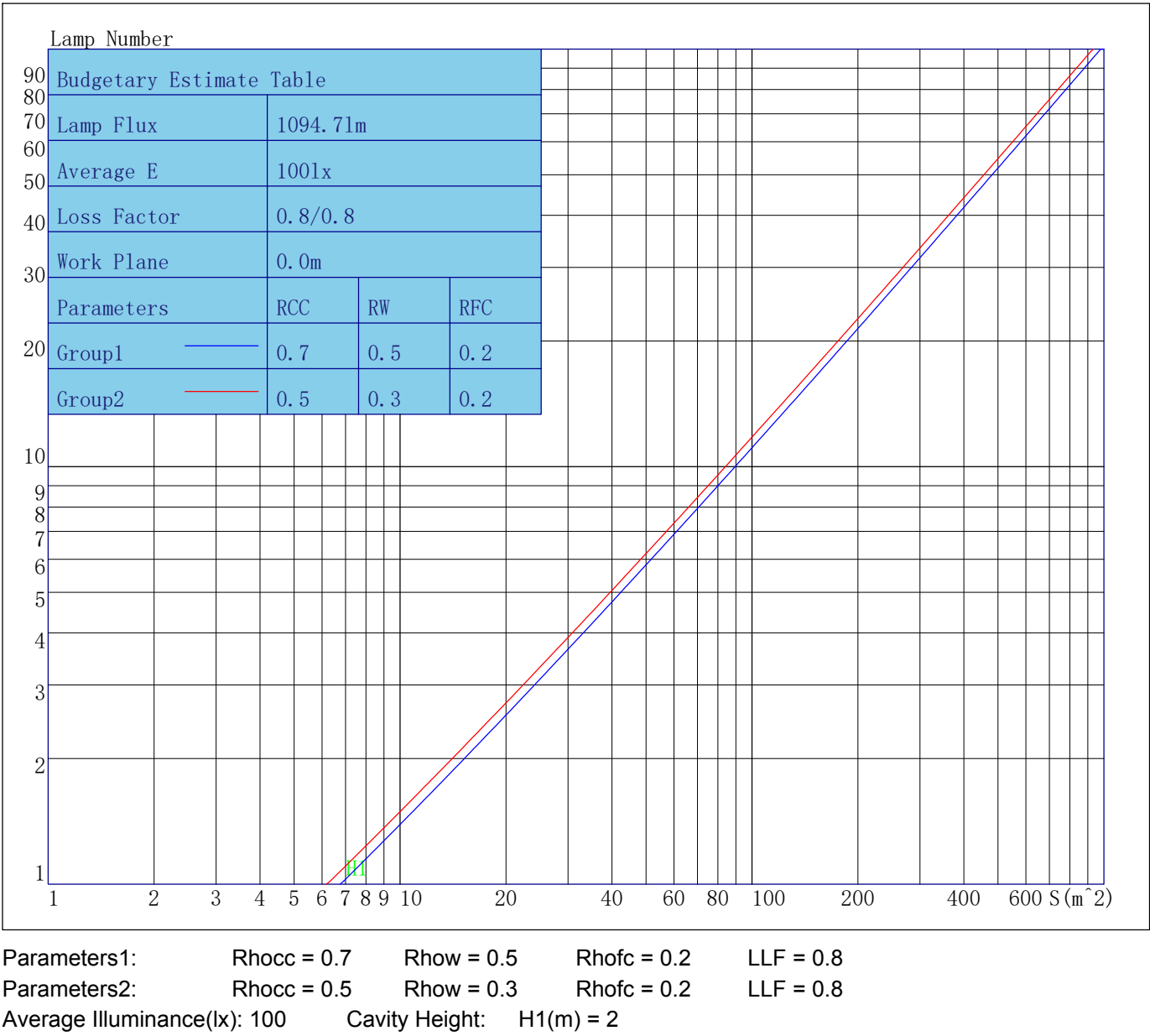
Luminance Limiting Curve



Luminous Size: Length(m)=-0.050 Width(m)=-0.050 Height(m)=0.000 Area(m^2)=0.001963
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Table with 3 columns: Lum. Name, Lum. Catalog, Test ID, Lamp Name, Lamp Catalog, Test Lab, Manufacture, Test Machine, Test Date.



Indoor Coefficient of Utilization Table

Lum. Name: 55252	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	87	90	88	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	74	71	70
8	86	77	72	69	85	77	72	69	76	72	68	75	71	68	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	71	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

Unified Glare Rating Table

Lum. Name: 55252	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/11/30

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	19.8	20.8	20.1	21.1	21.4	19.5	20.5	19.9	20.8	21.1
	20.0	20.8	20.4	21.2	21.5	19.7	20.6	20.1	20.9	21.3
	19.9	20.7	20.3	21.0	21.4	19.6	20.4	20.0	20.8	21.1
	19.8	20.5	20.2	20.9	21.3	19.5	20.2	19.9	20.6	21.0
	19.7	20.4	20.1	20.8	21.2	19.4	20.1	19.9	20.5	20.9
	19.6	20.3	20.1	20.7	21.1	19.4	20.0	19.8	20.4	20.8
X=4H Y=2H	19.9	20.7	20.3	21.0	21.4	19.6	20.4	20.0	20.8	21.2
	20.1	20.8	20.5	21.2	21.6	19.8	20.5	20.2	20.9	21.3
	20.0	20.6	20.4	21.0	21.5	19.7	20.3	20.1	20.7	21.2
	19.9	20.4	20.4	20.8	21.3	19.6	20.1	20.1	20.5	21.0
	19.8	20.3	20.3	20.7	21.2	19.5	20.0	20.0	20.4	20.9
	19.8	20.2	20.2	20.6	21.1	19.4	19.8	19.9	20.3	20.8
X=8H Y=4H	19.8	20.3	20.3	20.8	21.2	19.5	20.0	20.0	20.4	20.9
	19.7	20.1	20.2	20.6	21.1	19.4	19.8	19.9	20.3	20.8
	19.6	20.0	20.2	20.5	21.0	19.3	19.7	19.9	20.2	20.7
	19.6	19.9	20.1	20.4	20.9	19.3	19.6	19.8	20.1	20.6
X=12H Y=4H	19.8	20.2	20.3	20.7	21.1	19.5	19.9	20.0	20.4	20.8
	19.6	20.0	20.2	20.4	21.0	19.3	19.7	19.9	20.1	20.7
	19.6	19.9	20.1	20.4	20.9	19.3	19.6	19.8	20.1	20.6
Variations with the objerver position at spacings										
S=1.0H	0.0/0.0					0.0/0.0				
S=1.5H	6.1/0.0					6.3/0.0				
S=2.0H	4.8/0.0					5.0/0.0				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	0.4					0.4				

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

IES Indoor Report

Photometric Filename:SL-15W-COB-1500-A -36°.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
γ 0.0	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46	2731.46
γ 1.0	2735.94	2731.54	2724.37	2722.56	2713.21	2710.41	2747.48	2736.07	2729.08	2721.52	2719.21	2712.39
γ 2.0	2724.22	2721.99	2713.89	2712.33	2697.37	2692.29	2740.08	2722.70	2713.54	2702.45	2707.18	2697.43
γ 3.0	2697.90	2700.55	2689.38	2688.36	2665.61	2663.10	2720.10	2694.56	2684.77	2677.82	2686.79	2680.16
γ 4.0	2661.43	2668.93	2652.84	2652.52	2623.83	2618.55	2684.35	2653.98	2647.11	2641.49	2655.32	2650.17
γ 5.0	2611.34	2627.32	2609.10	2606.19	2570.67	2562.90	2638.63	2606.14	2597.04	2595.63	2613.79	2611.83
γ 6.0	2548.68	2574.18	2554.59	2550.49	2503.80	2493.22	2584.42	2541.93	2537.45	2536.89	2565.74	2560.67
γ 7.0	2477.78	2506.60	2484.11	2481.91	2423.49	2414.96	2511.90	2466.04	2467.38	2465.60	2503.67	2498.36
γ 8.0	2397.65	2428.60	2400.81	2403.21	2335.47	2328.17	2430.22	2379.86	2385.72	2384.25	2426.57	2420.38
γ 9.0	2300.61	2336.73	2308.66	2309.97	2243.39	2240.63	2336.74	2284.73	2297.99	2295.09	2341.81	2331.85
γ 10.0	2195.15	2237.98	2207.61	2211.02	2142.42	2140.68	2237.87	2186.29	2199.83	2199.34	2245.61	2235.61
γ 11.0	2079.24	2128.81	2100.05	2100.93	2035.13	2033.80	2132.08	2078.53	2097.51	2092.00	2143.40	2138.17
γ 12.0	1959.15	2012.60	1983.74	1982.24	1918.26	1917.80	2020.64	1964.88	1988.27	1978.47	2032.55	2026.56
γ 13.0	1834.16	1887.61	1864.41	1861.78	1797.50	1799.76	1905.95	1843.33	1872.99	1857.67	1913.33	1910.26
γ 14.0	1710.33	1763.33	1742.02	1737.84	1671.90	1676.71	1783.72	1721.17	1754.66	1736.76	1795.05	1793.40
γ 15.0	1584.07	1641.89	1618.44	1612.80	1545.28	1550.20	1659.17	1596.41	1627.72	1613.00	1672.09	1670.39
γ 16.0	1456.80	1516.59	1492.08	1484.38	1417.86	1423.39	1532.37	1470.45	1501.07	1486.61	1550.87	1549.15
γ 17.0	1332.29	1388.11	1366.99	1358.03	1292.07	1298.49	1407.84	1345.38	1375.43	1361.52	1427.10	1426.22
γ 18.0	1206.54	1260.59	1241.08	1234.92	1169.82	1178.59	1283.49	1221.97	1250.47	1238.99	1302.21	1301.07
γ 19.0	1087.57	1139.48	1120.59	1114.82	1050.26	1060.95	1160.97	1103.94	1129.34	1116.06	1179.14	1178.60
γ 20.0	973.97	1023.61	1006.15	999.51	938.86	949.04	1043.36	989.53	1011.93	999.04	1060.78	1058.58
γ 21.0	863.88	914.50	895.89	893.24	831.96	841.41	932.36	877.78	897.86	888.77	948.11	944.55
γ 22.0	761.41	806.58	789.51	788.21	730.00	739.75	825.20	774.50	792.68	783.16	840.57	835.92
γ 23.0	664.59	706.36	689.61	690.23	634.78	641.96	723.73	676.22	690.74	684.18	737.86	732.81
γ 24.0	574.50	611.72	596.97	597.56	547.29	554.98	628.84	583.80	597.51	590.60	640.75	636.21
γ 25.0	494.41	527.56	514.70	514.45	469.11	476.77	541.46	501.75	512.85	506.36	551.43	549.05
γ 26.0	422.54	452.06	442.59	442.33	400.92	409.15	464.71	430.76	438.52	431.36	471.69	470.78
γ 27.0	362.96	388.61	379.02	378.56	342.93	351.96	396.87	368.74	375.57	368.44	402.80	403.04
γ 28.0	312.37	334.17	325.29	325.26	295.61	303.26	339.77	316.22	322.62	316.24	344.27	346.04
γ 29.0	269.49	288.09	281.53	280.40	256.53	262.92	293.50	274.00	279.16	272.20	295.03	297.27
γ 30.0	234.18	249.61	244.49	242.49	223.32	228.79	253.90	238.13	242.05	235.88	254.19	256.54
γ 31.0	205.09	218.18	213.11	211.50	195.39	200.41	221.27	208.26	211.01	205.27	220.64	222.86
γ 32.0	180.90	191.89	187.67	186.02	172.75	176.99	193.98	183.06	184.55	179.78	193.03	195.00
γ 33.0	160.95	170.11	166.42	164.57	153.75	157.65	171.06	162.44	162.85	158.58	170.04	171.73
γ 34.0	144.19	151.69	148.70	146.74	137.07	140.88	152.58	144.83	145.27	141.63	151.10	153.04
γ 35.0	129.65	136.01	133.06	131.80	123.31	126.17	136.60	130.01	129.92	126.96	135.06	136.86
γ 36.0	117.48	122.46	120.01	118.89	111.33	113.60	122.86	117.15	116.87	114.43	121.37	122.65
γ 37.0	107.05	111.06	108.78	107.80	101.21	103.08	111.45	106.26	105.54	103.86	109.60	110.50
γ 38.0	97.91	101.40	99.13	98.46	92.36	93.79	101.54	97.12	95.93	94.66	99.85	100.03
γ 39.0	90.16	92.94	90.52	90.15	84.68	85.80	92.76	88.91	87.66	86.76	91.32	91.07
γ 40.0	82.98	85.30	83.26	82.69	77.94	78.57	85.07	81.55	80.57	79.76	83.53	83.21
γ 41.0	76.66	78.70	76.78	76.29	71.99	72.42	78.24	75.36	74.38	73.72	76.96	76.61
γ 42.0	70.86	72.92	70.86	70.44	66.52	67.07	72.20	69.77	68.74	68.27	71.23	70.74
γ 43.0	65.81	67.66	65.96	65.03	61.72	62.44	66.90	64.95	63.89	63.39	65.89	65.62
γ 44.0	61.40	63.03	61.62	60.30	57.50	58.38	62.15	60.37	59.68	58.94	61.27	61.24
γ 45.0	57.55	59.18	57.83	56.39	53.90	54.80	57.95	56.53	55.99	55.11	57.23	57.24
γ 46.0	53.85	55.58	54.42	52.90	50.75	51.57	54.15	53.15	52.81	51.72	53.64	53.93

IES Indoor Report
Photometric Filename:SL-15W-COB-1500-A -36°.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
γ 47. 0	50. 63	52. 23	51. 36	49. 63	47. 64	48. 70	50. 83	49. 98	49. 87	48. 86	50. 40	50. 80
γ 48. 0	47. 92	49. 39	48. 45	46. 82	44. 76	45. 86	47. 92	47. 13	47. 13	45. 92	47. 49	47. 92
γ 49. 0	45. 27	46. 73	45. 85	44. 31	42. 36	43. 11	45. 15	44. 29	44. 54	43. 47	44. 62	45. 23
γ 50. 0	42. 85	44. 16	43. 35	41. 92	40. 19	40. 81	42. 55	42. 05	42. 33	41. 05	42. 27	42. 87
γ 51. 0	40. 68	41. 84	40. 93	39. 77	38. 07	38. 55	40. 37	39. 73	40. 06	39. 06	40. 05	40. 51
γ 52. 0	38. 65	39. 83	38. 81	37. 62	36. 08	36. 48	38. 28	37. 64	37. 97	37. 09	38. 04	38. 48
γ 53. 0	36. 64	37. 77	36. 65	35. 68	34. 04	34. 33	36. 30	35. 61	35. 94	35. 09	36. 05	36. 25
γ 54. 0	34. 70	35. 60	34. 63	33. 56	32. 17	32. 19	34. 22	33. 59	33. 86	33. 26	34. 21	34. 20
γ 55. 0	32. 69	33. 69	32. 54	31. 79	30. 41	30. 30	32. 32	31. 79	31. 87	31. 32	32. 24	32. 25
γ 56. 0	30. 92	31. 85	30. 67	29. 94	28. 43	28. 62	30. 51	29. 84	30. 00	29. 58	30. 45	30. 49
γ 57. 0	29. 20	30. 04	28. 77	28. 15	26. 86	26. 87	28. 74	28. 09	28. 14	27. 82	28. 63	28. 63
γ 58. 0	27. 41	28. 25	27. 18	26. 55	25. 24	25. 09	26. 89	26. 39	26. 20	26. 26	26. 87	26. 97
γ 59. 0	25. 64	26. 55	25. 30	24. 86	23. 50	23. 40	25. 29	24. 62	24. 82	24. 53	25. 24	25. 37
γ 60. 0	23. 97	24. 80	23. 72	23. 16	21. 87	21. 77	23. 55	22. 94	23. 05	22. 85	23. 63	23. 60
γ 61. 0	22. 25	23. 02	21. 90	21. 42	20. 04	20. 10	21. 82	21. 08	21. 42	21. 12	21. 92	21. 87
γ 62. 0	20. 50	21. 30	20. 18	19. 71	18. 44	18. 39	20. 07	19. 52	19. 59	19. 32	20. 17	20. 19
γ 63. 0	18. 71	19. 44	18. 05	17. 66	16. 42	16. 60	18. 13	17. 53	17. 97	17. 67	18. 52	18. 41
γ 64. 0	16. 55	17. 40	16. 59	15. 88	14. 82	14. 83	16. 43	15. 81	15. 96	15. 55	16. 28	16. 33
γ 65. 0	14. 91	15. 70	14. 78	14. 24	13. 23	13. 08	14. 71	13. 97	14. 36	13. 88	14. 73	14. 69
γ 66. 0	13. 18	14. 02	13. 28	12. 69	11. 65	11. 66	13. 10	12. 44	12. 76	12. 31	13. 05	13. 23
γ 67. 0	11. 50	12. 35	11. 61	10. 99	9. 95	10. 00	11. 27	10. 75	11. 09	10. 73	11. 46	11. 56
γ 68. 0	9. 87	10. 68	9. 78	9. 28	8. 35	8. 26	9. 62	8. 99	9. 47	8. 92	9. 86	9. 89
γ 69. 0	8. 15	8. 91	8. 11	7. 64	6. 50	6. 66	7. 84	7. 27	7. 67	7. 19	8. 11	8. 26
γ 70. 0	6. 51	7. 20	6. 30	5. 90	5. 02	4. 99	6. 13	5. 58	6. 03	5. 52	6. 43	6. 51
γ 71. 0	4. 85	5. 52	4. 71	4. 27	3. 36	3. 42	4. 48	3. 89	4. 37	3. 98	4. 81	4. 97
γ 72. 0	3. 26	3. 91	3. 15	2. 79	1. 75	1. 91	2. 87	2. 36	2. 78	2. 43	3. 29	3. 37
γ 73. 0	1. 80	2. 35	1. 70	1. 21	0. 46	0. 50	1. 37	0. 89	1. 36	0. 90	1. 71	1. 91
γ 74. 0	0. 31	0. 86	0. 15	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 40	0. 50
γ 75. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 76. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 77. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 78. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 79. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 80. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 81. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 82. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 83. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 84. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 85. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 86. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 87. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 88. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 89. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 90. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 91. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 92. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 93. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00

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
γ 94. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 95. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 96. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 97. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 98. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 99. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 100. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 101. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 102. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 103. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 104. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 105. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 106. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 107. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 108. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 109. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 110. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 111. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 112. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 113. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 114. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 115. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 116. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 117. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 118. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 119. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 120. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 121. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 122. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 123. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 124. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 125. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 126. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 127. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 128. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 129. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 130. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 131. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 132. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 133. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 134. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 135. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 136. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 137. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 138. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 139. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 140. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00

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
γ 141.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 142.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 143.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 144.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 146.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 147.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 148.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 149.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 151.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 152.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 153.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 154.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 156.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 157.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 158.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 159.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 161.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 162.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
γ 163.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
γ 164.0	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.15	0.17	0.05	0.00	0.00
γ 165.0	0.19	0.00	0.00	0.00	0.00	0.00	0.31	0.34	0.23	0.16	0.17	0.14
γ 166.0	0.39	0.19	0.14	0.00	0.00	0.09	0.39	0.45	0.37	0.25	0.31	0.37
γ 167.0	0.50	0.29	0.29	0.10	0.08	0.10	0.47	0.66	0.56	0.47	0.31	0.41
γ 168.0	0.51	0.42	0.31	0.15	0.15	0.25	0.60	0.70	0.62	0.49	0.44	0.52
γ 169.0	0.67	0.46	0.54	0.30	0.21	0.33	0.63	0.68	0.74	0.61	0.52	0.68
γ 170.0	0.77	0.59	0.53	0.41	0.42	0.42	0.74	0.80	0.81	0.66	0.71	0.68
γ 171.0	0.80	0.75	0.66	0.45	0.53	0.62	0.88	0.87	0.85	0.79	0.71	0.81
γ 172.0	0.94	0.87	0.76	0.47	0.61	0.57	0.98	0.90	0.95	0.93	0.72	0.88
γ 173.0	0.96	0.86	0.90	0.55	0.62	0.69	1.04	0.98	1.01	0.93	0.80	0.92
γ 174.0	1.09	0.92	0.94	0.73	0.73	0.81	1.14	1.02	1.04	0.81	0.93	1.03
γ 175.0	1.12	0.93	0.96	0.79	0.82	0.72	1.14	1.05	1.10	0.96	0.98	1.05
γ 176.0	1.21	1.12	1.05	0.83	0.78	0.90	1.20	1.19	1.16	0.96	0.92	0.95
γ 177.0	1.31	1.18	1.07	0.85	0.87	0.83	1.33	1.18	1.21	0.94	0.98	1.05
γ 178.0	1.36	1.21	1.11	0.96	0.96	1.03	1.31	1.14	1.17	1.02	1.07	1.11
γ 179.0	1.37	1.18	1.19	0.97	0.98	1.02	1.39	1.13	1.11	1.04	1.08	1.15
γ 180.0	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19