

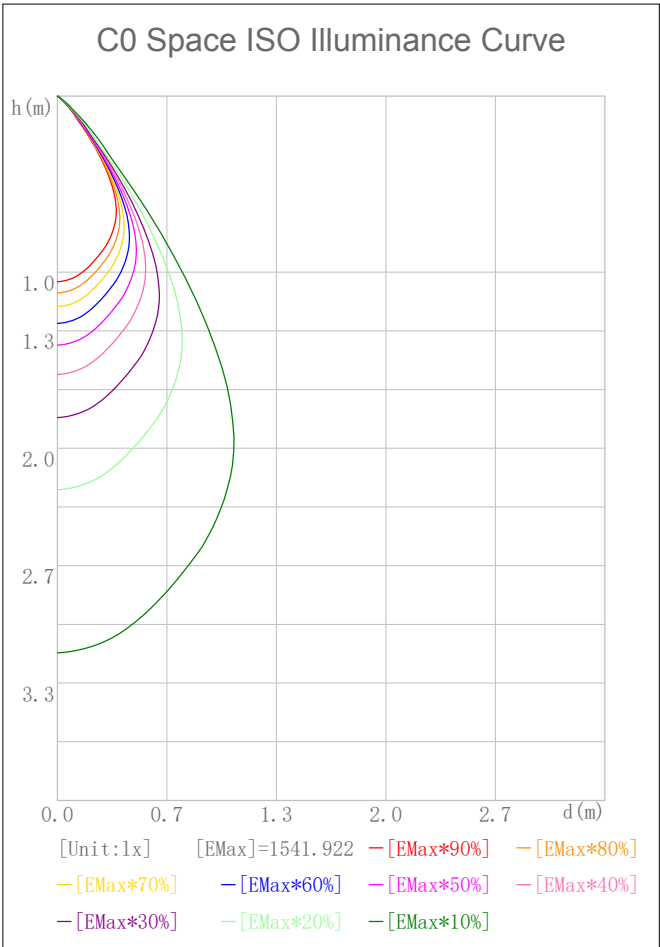
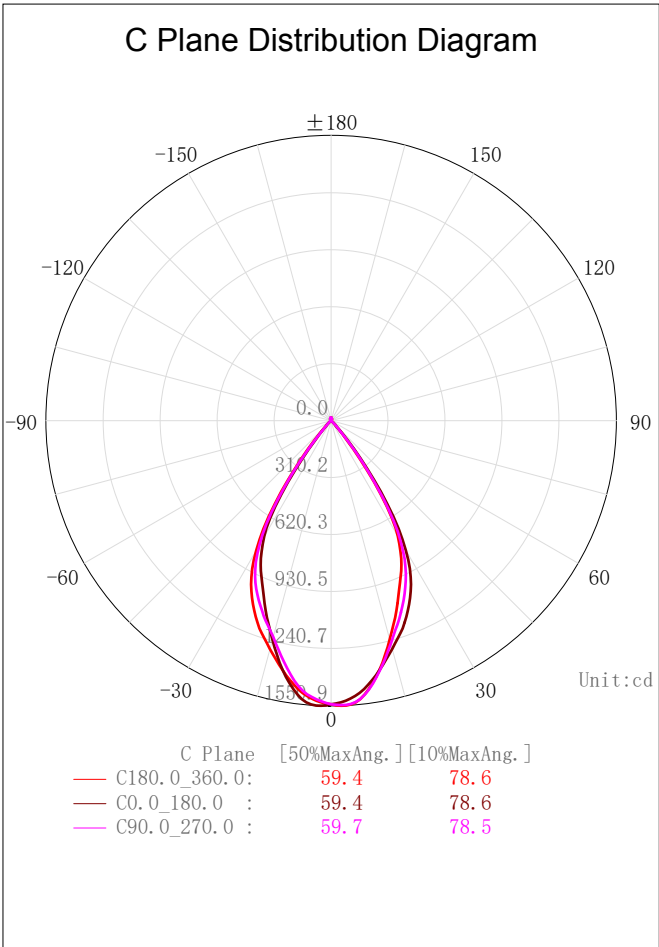
Indoor Luminaire Photometric Data

Description Information

Luminary Name:		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2018/07/20
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

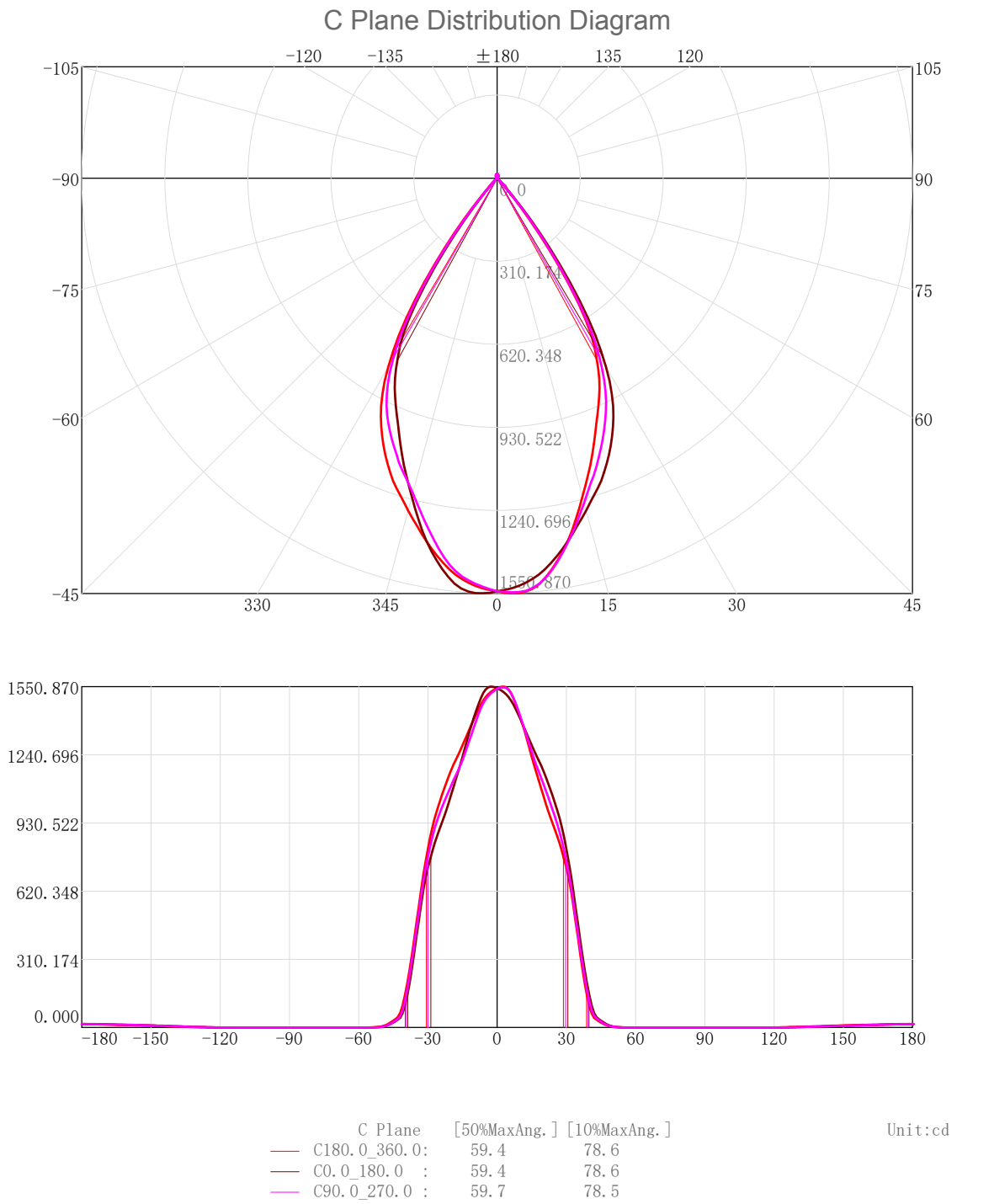
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1000.000	Luminary Flux(lm): 1241.101	Field Angle(10%Imax): 78.6(°)	
Rated Power(W):	Luminary Efficiency: 124.11%	Down Lumens&Percent: 1222.994lm 98.54%	
Rated Voltage(V):	Luminary EER(lm/W): 97.265	Up Lumens&Percent: 18.107lm 1.46%	
Tested Power(W): 12.760	Max. Candela(cd): 1550.870	S/MH: C0_a180=0.874 C90_270=0.878	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=3.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):220.0, 0.106, 0.545	Beam Angle(50%Imax): 59.4(°)	ErP Φ use(90°): 1210.029lm	
Lamp Size (W*L*H):0.050m*~0.050m*0.000m	Left=-30.6°, Right=28.7°	IRF(%): 250.768	



2D Plane Light Intensity Distribution Curve

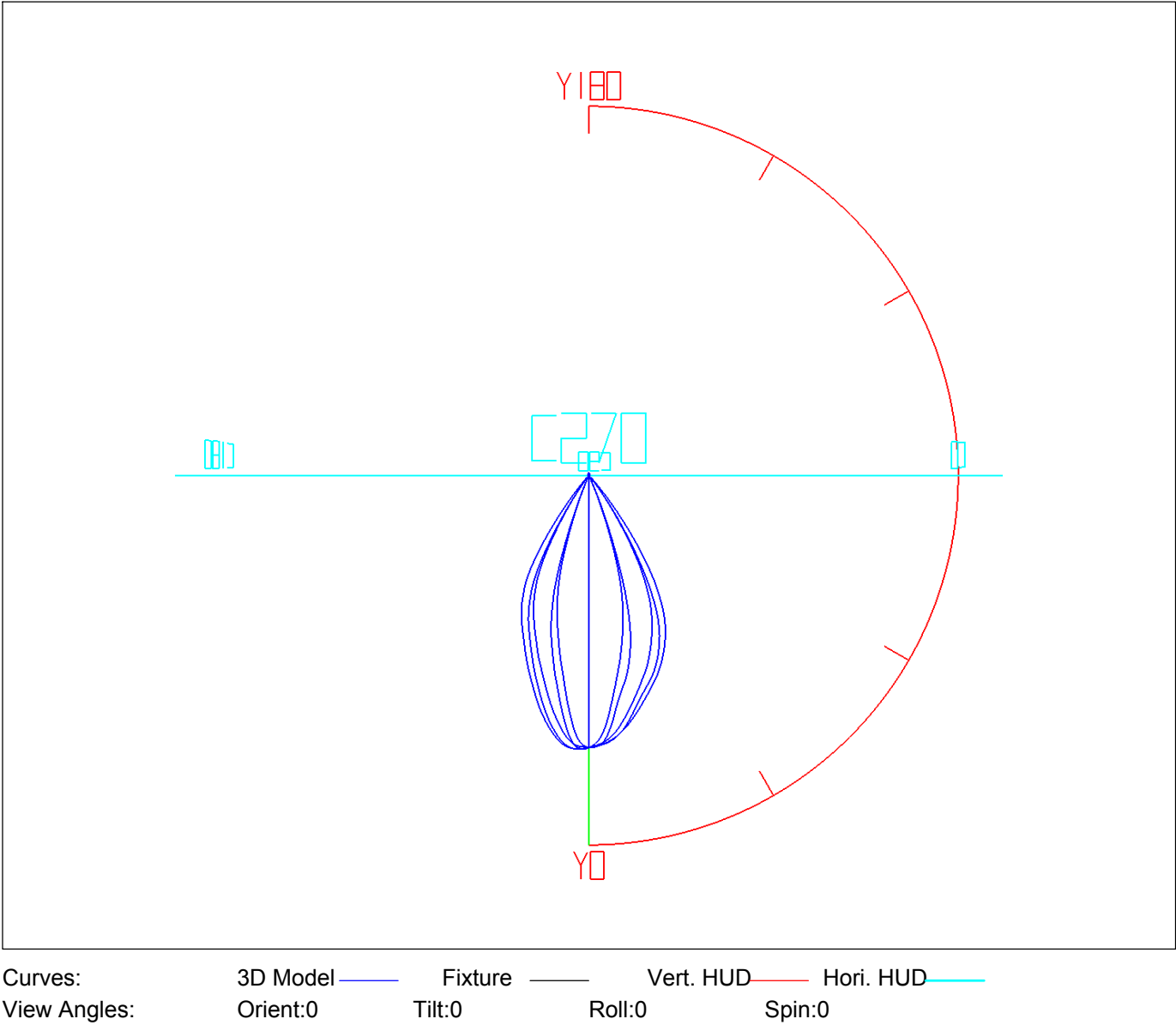
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

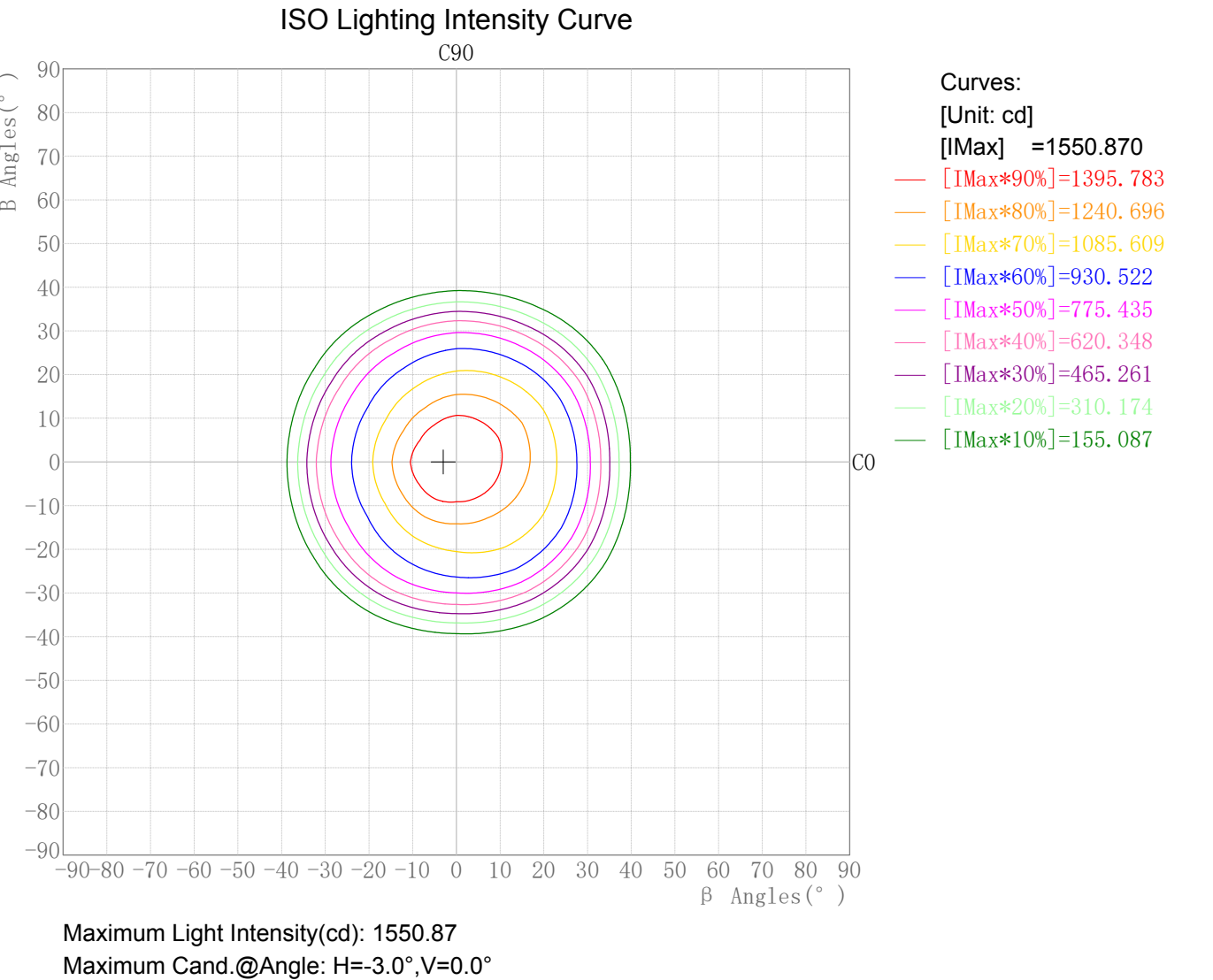
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	1.47	1.47	0.15	0.15	47.0-48.0	1.00	1221.16	0.10	122.12
1.0-2.0	4.42	5.89	0.44	0.59	48.0-49.0	0.68	1221.84	0.07	122.18
2.0-3.0	7.35	13.24	0.73	1.32	49.0-50.0	0.45	1222.29	0.05	122.23
3.0-4.0	10.24	23.48	1.02	2.35	50.0-51.0	0.29	1222.58	0.03	122.26
4.0-5.0	13.09	36.57	1.31	3.66	51.0-52.0	0.18	1222.76	0.02	122.28
5.0-6.0	15.85	52.42	1.58	5.24	52.0-53.0	0.11	1222.87	0.01	122.29
6.0-7.0	18.49	70.90	1.85	7.09	53.0-54.0	0.06	1222.93	0.01	122.29
7.0-8.0	21.00	91.90	2.10	9.19	54.0-55.0	0.03	1222.97	0.00	122.30
8.0-9.0	23.36	115.26	2.34	11.53	55.0-56.0	0.02	1222.99	0.00	122.30
9.0-10.0	25.57	140.83	2.56	14.08	56.0-57.0	0.01	1222.99	0.00	122.30
10.0-11.0	27.64	168.47	2.76	16.85	57.0-58.0	0.00	1222.99	0.00	122.30
11.0-12.0	29.56	198.03	2.96	19.80	58.0-59.0	0.00	1222.99	0.00	122.30
12.0-13.0	31.34	229.37	3.13	22.94	59.0-60.0	0.00	1222.99	0.00	122.30
13.0-14.0	32.99	262.36	3.30	26.24	60.0-61.0	0.00	1222.99	0.00	122.30
14.0-15.0	34.54	296.90	3.45	29.69	61.0-62.0	0.00	1222.99	0.00	122.30
15.0-16.0	36.01	332.91	3.60	33.29	62.0-63.0	0.00	1222.99	0.00	122.30
16.0-17.0	37.40	370.31	3.74	37.03	63.0-64.0	0.00	1222.99	0.00	122.30
17.0-18.0	38.73	409.05	3.87	40.90	64.0-65.0	0.00	1222.99	0.00	122.30
18.0-19.0	39.96	449.01	4.00	44.90	65.0-66.0	0.00	1222.99	0.00	122.30
19.0-20.0	41.02	490.03	4.10	49.00	66.0-67.0	0.00	1222.99	0.00	122.30
20.0-21.0	41.94	531.97	4.19	53.20	67.0-68.0	0.00	1222.99	0.00	122.30
21.0-22.0	42.76	574.73	4.28	57.47	68.0-69.0	0.00	1222.99	0.00	122.30
22.0-23.0	43.46	618.19	4.35	61.82	69.0-70.0	0.00	1222.99	0.00	122.30
23.0-24.0	44.03	662.22	4.40	66.22	70.0-71.0	0.00	1222.99	0.00	122.30
24.0-25.0	44.45	706.67	4.45	70.67	71.0-72.0	0.00	1222.99	0.00	122.30
25.0-26.0	44.70	751.37	4.47	75.14	72.0-73.0	0.00	1222.99	0.00	122.30
26.0-27.0	44.70	796.08	4.47	79.61	73.0-74.0	0.00	1222.99	0.00	122.30
27.0-28.0	44.41	840.48	4.44	84.05	74.0-75.0	0.00	1222.99	0.00	122.30
28.0-29.0	43.76	884.24	4.38	88.42	75.0-76.0	0.00	1222.99	0.00	122.30
29.0-30.0	42.74	926.98	4.27	92.70	76.0-77.0	0.00	1222.99	0.00	122.30
30.0-31.0	41.30	968.28	4.13	96.83	77.0-78.0	0.00	1222.99	0.00	122.30
31.0-32.0	39.31	1007.59	3.93	100.76	78.0-79.0	0.00	1222.99	0.00	122.30
32.0-33.0	36.63	1044.21	3.66	104.42	79.0-80.0	0.00	1222.99	0.00	122.30
33.0-34.0	33.30	1077.51	3.33	107.75	80.0-81.0	0.00	1222.99	0.00	122.30
34.0-35.0	29.54	1107.05	2.95	110.71	81.0-82.0	0.00	1222.99	0.00	122.30
35.0-36.0	25.56	1132.61	2.56	113.26	82.0-83.0	0.00	1222.99	0.00	122.30
36.0-37.0	21.50	1154.11	2.15	115.41	83.0-84.0	0.00	1222.99	0.00	122.30
37.0-38.0	17.51	1171.62	1.75	117.16	84.0-85.0	0.00	1222.99	0.00	122.30
38.0-39.0	13.71	1185.33	1.37	118.53	85.0-86.0	0.00	1222.99	0.00	122.30
39.0-40.0	10.26	1195.58	1.03	119.56	86.0-87.0	0.00	1222.99	0.00	122.30
40.0-41.0	7.32	1202.91	0.73	120.29	87.0-88.0	0.00	1222.99	0.00	122.30
41.0-42.0	5.11	1208.02	0.51	120.80	88.0-89.0	0.00	1222.99	0.00	122.30
42.0-43.0	3.70	1211.72	0.37	121.17	89.0-90.0	0.00	1222.99	0.00	122.30
43.0-44.0	2.88	1214.60	0.29	121.46	90.0-91.0	0.00	1222.99	0.00	122.30
44.0-45.0	2.33	1216.93	0.23	121.69	91.0-92.0	0.00	1222.99	0.00	122.30
45.0-46.0	1.84	1218.77	0.18	121.88	92.0-93.0	0.00	1222.99	0.00	122.30
46.0-47.0	1.39	1220.16	0.14	122.02	93.0-94.0	0.00	1222.99	0.00	122.30

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	1222.99	0.00	122.30	141.0-142.0	0.41	1227.63	0.04	122.76
95.0-96.0	0.00	1222.99	0.00	122.30	142.0-143.0	0.42	1228.05	0.04	122.80
96.0-97.0	0.00	1222.99	0.00	122.30	143.0-144.0	0.43	1228.48	0.04	122.85
97.0-98.0	0.00	1222.99	0.00	122.30	144.0-145.0	0.45	1228.93	0.04	122.89
98.0-99.0	0.00	1222.99	0.00	122.30	145.0-146.0	0.46	1229.39	0.05	122.94
99.0-100.0	0.00	1222.99	0.00	122.30	146.0-147.0	0.47	1229.85	0.05	122.99
100.0-101.0	0.00	1222.99	0.00	122.30	147.0-148.0	0.48	1230.33	0.05	123.03
101.0-102.0	0.00	1222.99	0.00	122.30	148.0-149.0	0.48	1230.81	0.05	123.08
102.0-103.0	0.00	1222.99	0.00	122.30	149.0-150.0	0.49	1231.30	0.05	123.13
103.0-104.0	0.00	1222.99	0.00	122.30	150.0-151.0	0.49	1231.79	0.05	123.18
104.0-105.0	0.00	1222.99	0.00	122.30	151.0-152.0	0.49	1232.28	0.05	123.23
105.0-106.0	0.00	1222.99	0.00	122.30	152.0-153.0	0.49	1232.77	0.05	123.28
106.0-107.0	0.00	1222.99	0.00	122.30	153.0-154.0	0.49	1233.26	0.05	123.33
107.0-108.0	0.00	1222.99	0.00	122.30	154.0-155.0	0.48	1233.75	0.05	123.37
108.0-109.0	0.00	1222.99	0.00	122.30	155.0-156.0	0.48	1234.23	0.05	123.42
109.0-110.0	0.00	1222.99	0.00	122.30	156.0-157.0	0.47	1234.70	0.05	123.47
110.0-111.0	0.00	1222.99	0.00	122.30	157.0-158.0	0.46	1235.16	0.05	123.52
111.0-112.0	0.00	1222.99	0.00	122.30	158.0-159.0	0.45	1235.62	0.05	123.56
112.0-113.0	0.00	1222.99	0.00	122.30	159.0-160.0	0.44	1236.06	0.04	123.61
113.0-114.0	0.00	1222.99	0.00	122.30	160.0-161.0	0.43	1236.49	0.04	123.65
114.0-115.0	0.00	1222.99	0.00	122.30	161.0-162.0	0.42	1236.90	0.04	123.69
115.0-116.0	0.00	1222.99	0.00	122.30	162.0-163.0	0.41	1237.31	0.04	123.73
116.0-117.0	0.00	1223.00	0.00	122.30	163.0-164.0	0.39	1237.70	0.04	123.77
117.0-118.0	0.00	1223.00	0.00	122.30	164.0-165.0	0.37	1238.07	0.04	123.81
118.0-119.0	0.00	1223.00	0.00	122.30	165.0-166.0	0.36	1238.43	0.04	123.84
119.0-120.0	0.02	1223.02	0.00	122.30	166.0-167.0	0.34	1238.77	0.03	123.88
120.0-121.0	0.03	1223.04	0.00	122.30	167.0-168.0	0.32	1239.09	0.03	123.91
121.0-122.0	0.03	1223.08	0.00	122.31	168.0-169.0	0.30	1239.40	0.03	123.94
122.0-123.0	0.05	1223.13	0.01	122.31	169.0-170.0	0.28	1239.68	0.03	123.97
123.0-124.0	0.07	1223.20	0.01	122.32	170.0-171.0	0.26	1239.94	0.03	123.99
124.0-125.0	0.09	1223.29	0.01	122.33	171.0-172.0	0.24	1240.17	0.02	124.02
125.0-126.0	0.10	1223.39	0.01	122.34	172.0-173.0	0.21	1240.39	0.02	124.04
126.0-127.0	0.12	1223.51	0.01	122.35	173.0-174.0	0.19	1240.57	0.02	124.06
127.0-128.0	0.14	1223.65	0.01	122.37	174.0-175.0	0.16	1240.73	0.02	124.07
128.0-129.0	0.16	1223.81	0.02	122.38	175.0-176.0	0.13	1240.86	0.01	124.09
129.0-130.0	0.18	1223.98	0.02	122.40	176.0-177.0	0.10	1240.97	0.01	124.10
130.0-131.0	0.20	1224.18	0.02	122.42	177.0-178.0	0.07	1241.04	0.01	124.10
131.0-132.0	0.22	1224.40	0.02	122.44	178.0-179.0	0.05	1241.09	0.00	124.11
132.0-133.0	0.23	1224.63	0.02	122.46	179.0-180.0	0.02	1241.10	0.00	124.11
133.0-134.0	0.26	1224.89	0.03	122.49					
134.0-135.0	0.28	1225.17	0.03	122.52					
135.0-136.0	0.29	1225.46	0.03	122.55					
136.0-137.0	0.31	1225.78	0.03	122.58					
137.0-138.0	0.34	1226.11	0.03	122.61					
138.0-139.0	0.35	1226.47	0.04	122.65					
139.0-140.0	0.37	1226.83	0.04	122.68					
140.0-141.0	0.39	1227.22	0.04	122.72					

Rectangle ISO Lighting Intensity Diagram

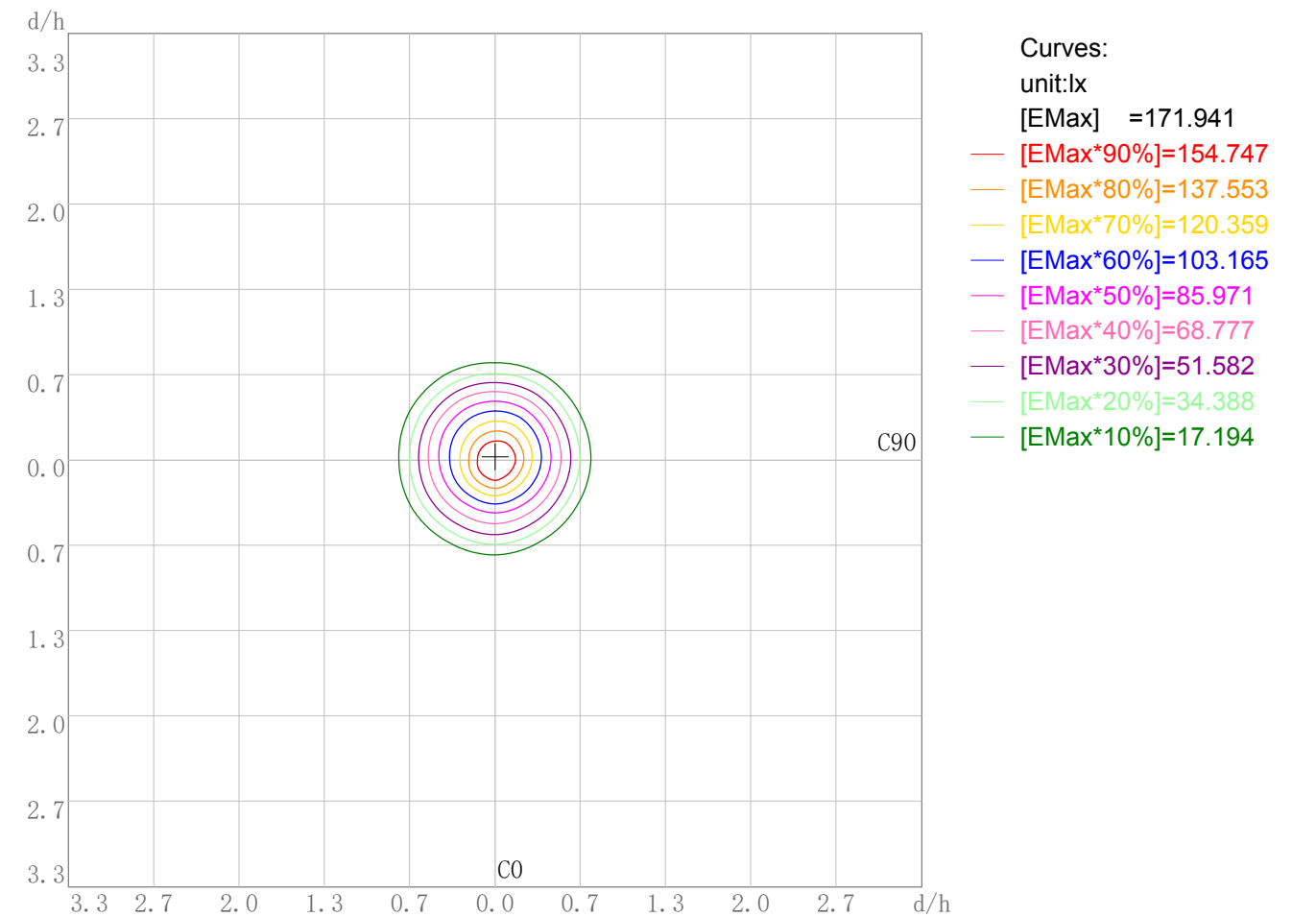
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



Plane ISO-Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

Plane ISO-Illuminance Curve

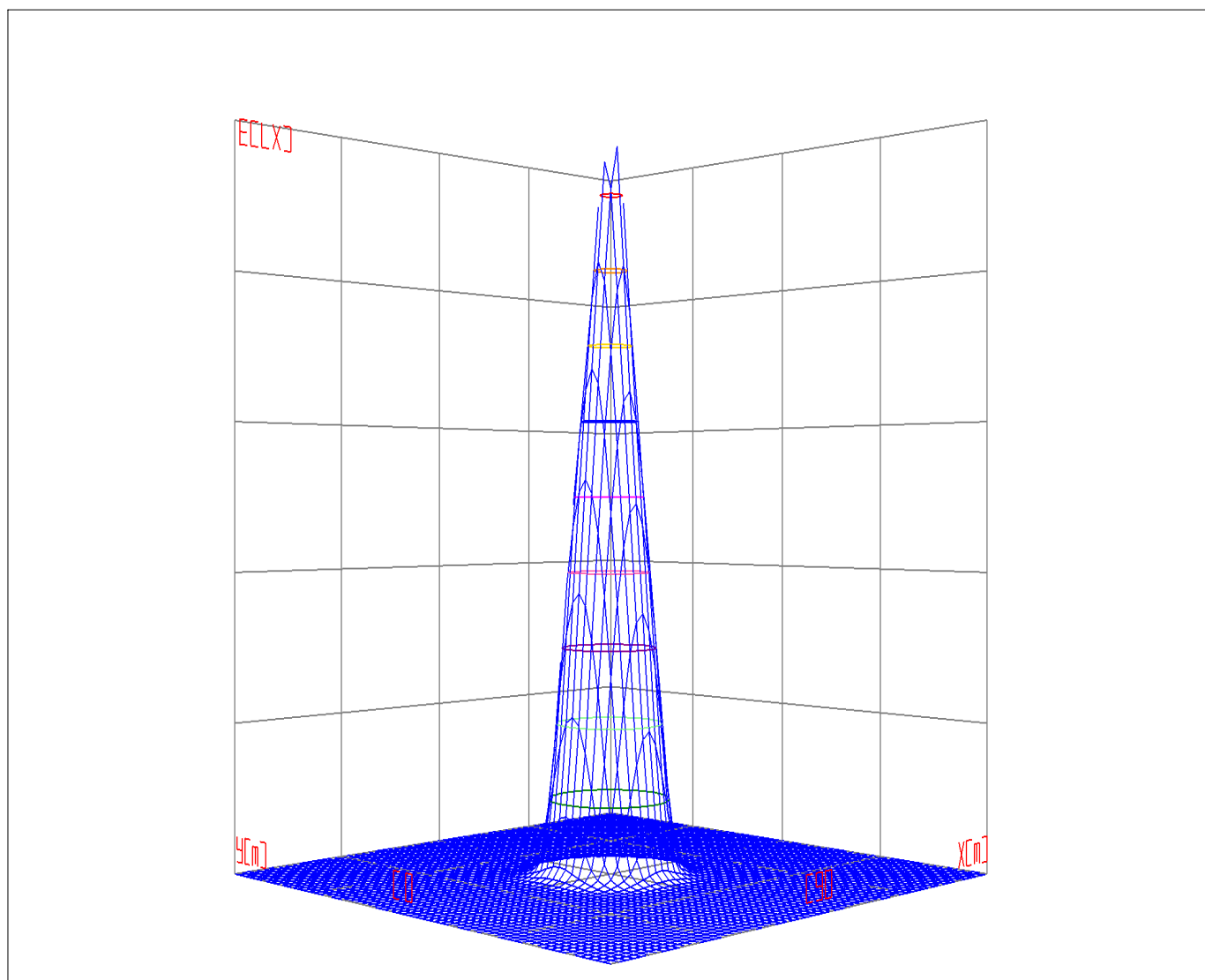


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 171.94  
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

### 3D Plane Illuminance Modal



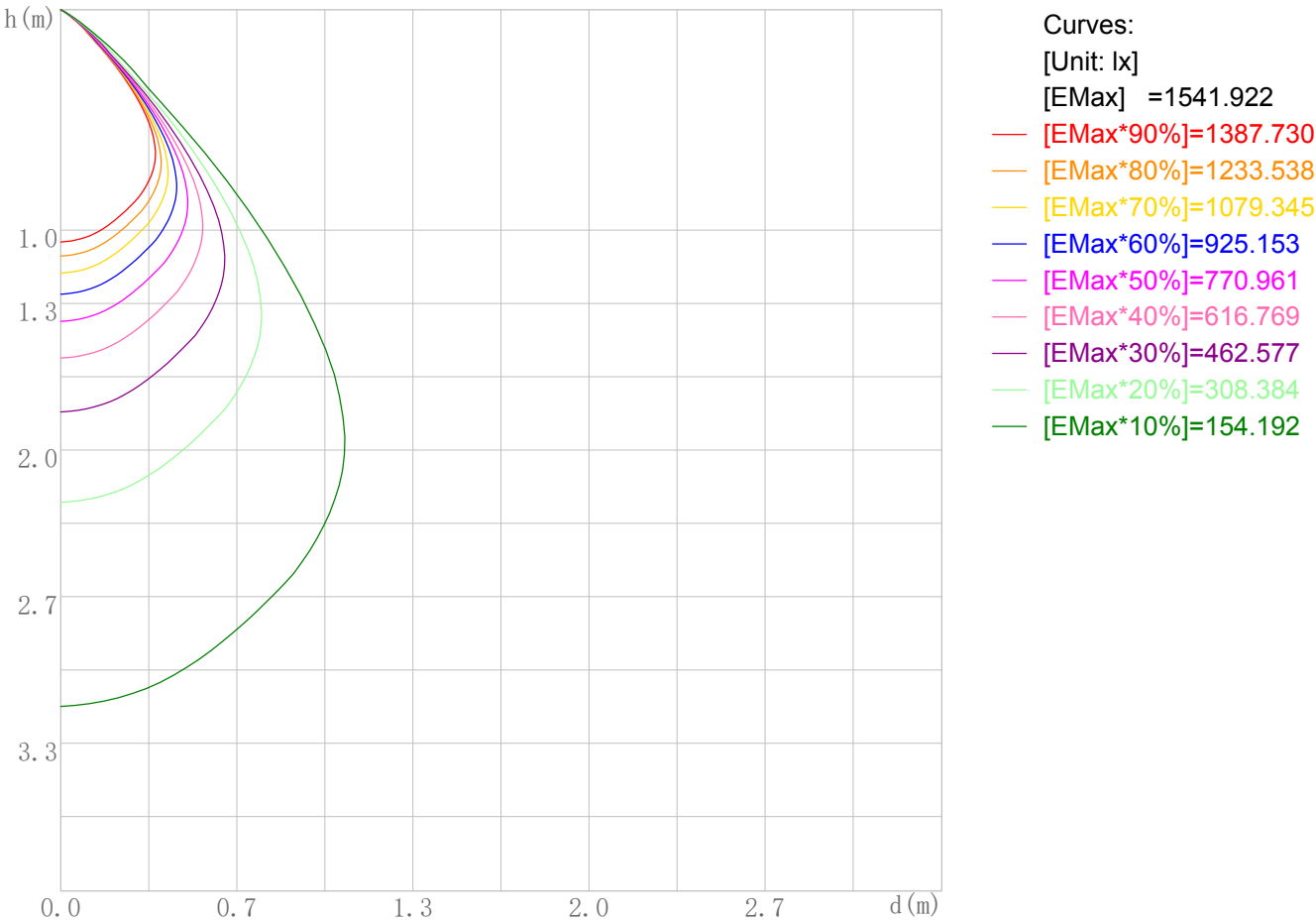
Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
 View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0



Space ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

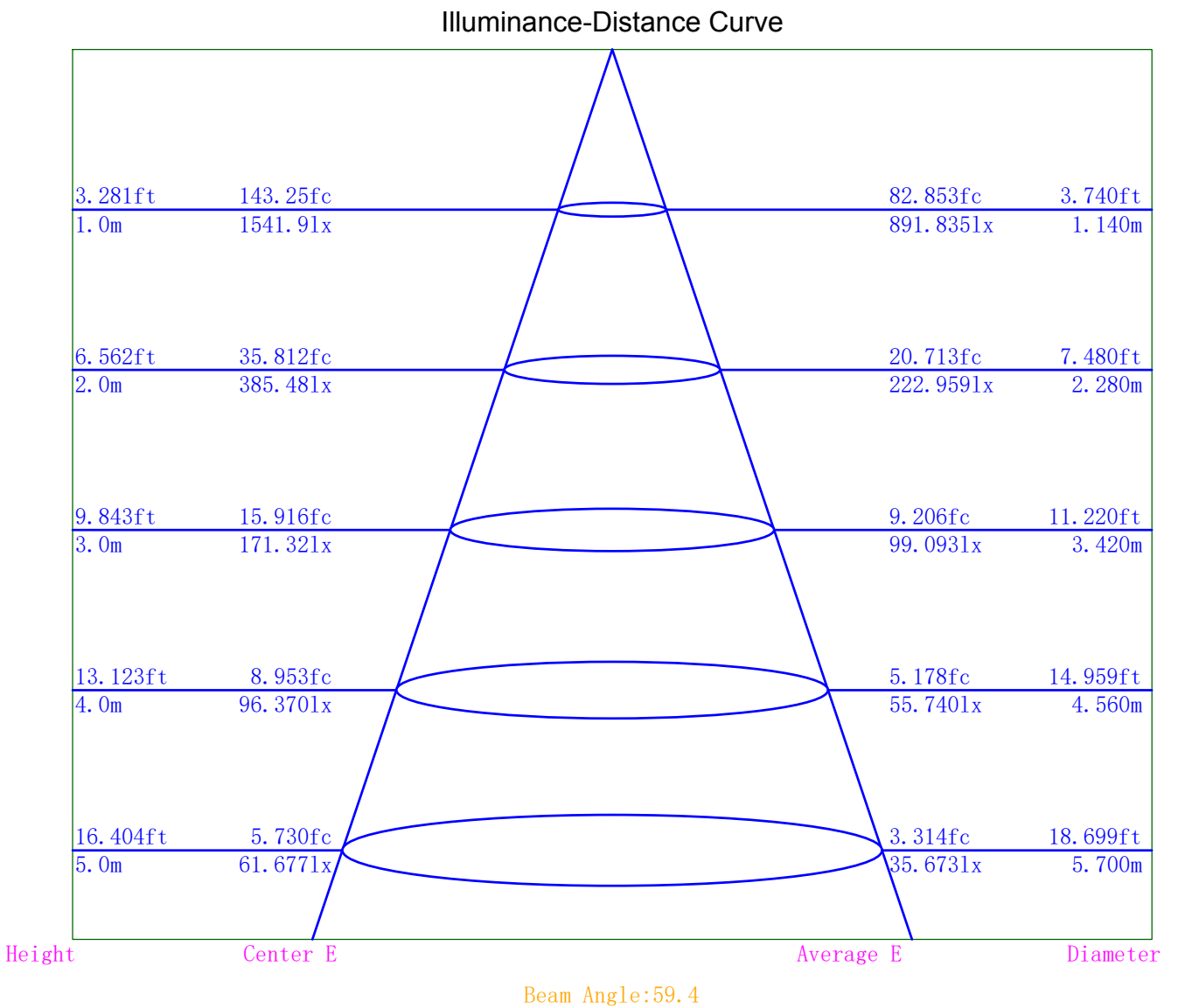
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:1541.92lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:1541.922cd,0deg

Illuminance-Distance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



Indoor Luminance Limiting Curves

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20

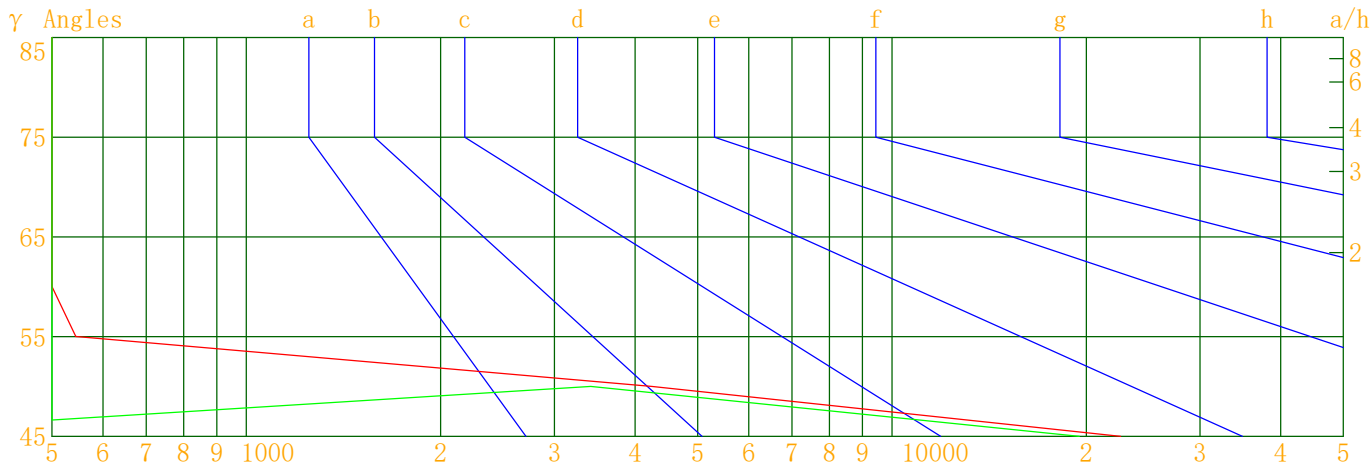
Glare Grade Table

GI	Quality	Using Illuminance							
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	22603	4245	544	0	0	0	0	0	0
C90	19500	3415	198	0	0	0	0	0	0

Luminance Limiting Curve



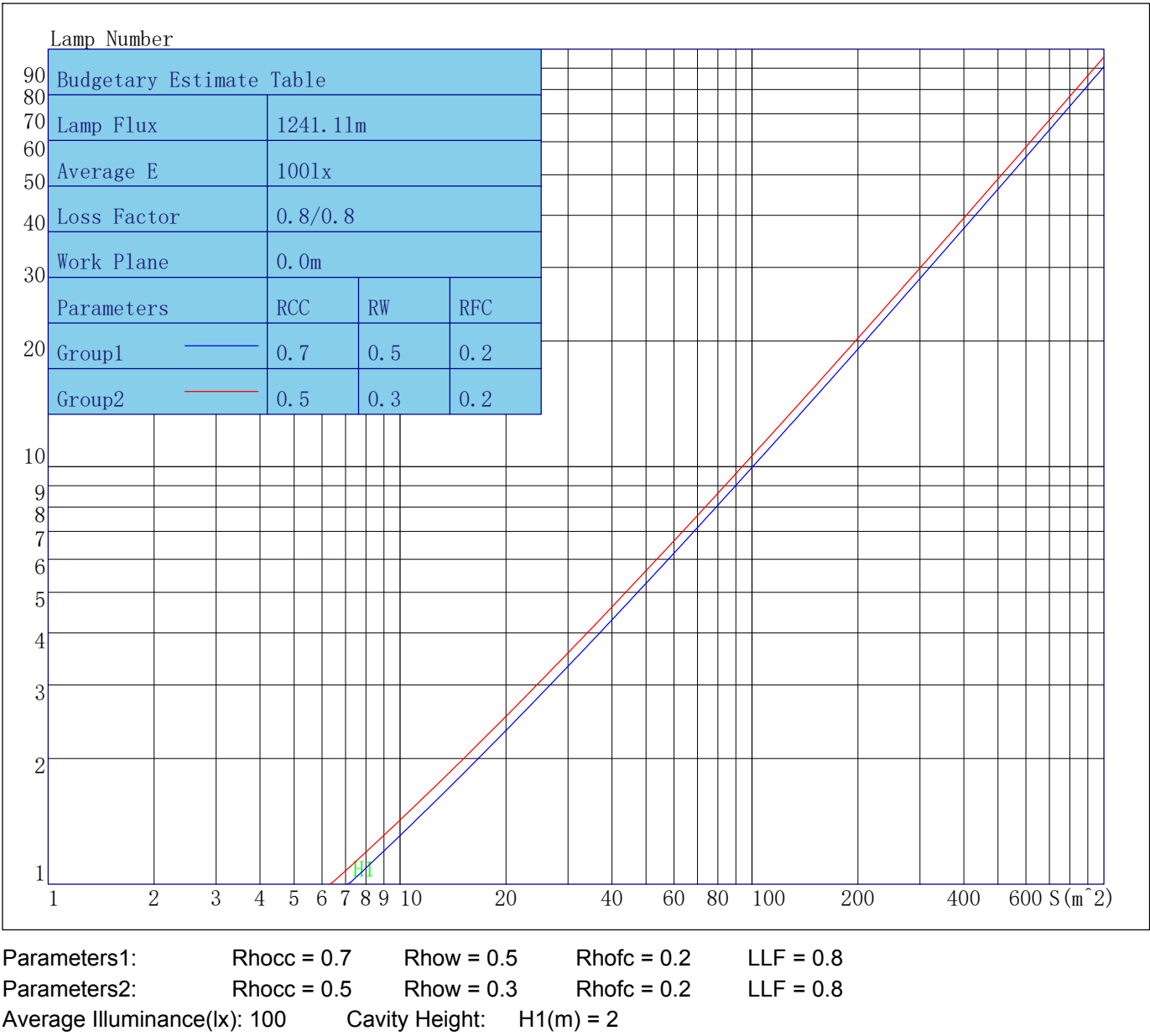
Luminous Size:Length(m)=-0.050Width(m)=-0.050Height(m)=0.000Area(m^2)=0.001963

Luminous Type:Without Luminous Side

Luminous Curves:C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2018/07/20



Indoor Coefficient of Utilization Table

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

Table with 2 main sections: 'Coefficients of Utilization - Zonal Cavity Method' and 'Coefficient of Utilization (%)'. The first section includes RhoCC, RhoW, and RCR values. The second section is a large grid of utilization coefficients for different room dimensions and reflectance levels.

Unified Glare Rating Table

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

Unified Glare Rating Table

Table with 11 columns for room dimensions and UGR values. Includes sections for variations with observer position and reduced UGR table.

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

IES Indoor Report

Photometric Filename:UL-12W-COB-1200-AH 60D.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	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92	1541.92
γ 1.0	1537.72	1540.25	1542.87	1544.80	1545.28	1543.21	1547.92	1543.24	1539.51	1534.61	1533.77	1532.19
γ 2.0	1532.42	1537.63	1542.68	1546.66	1547.64	1546.00	1550.21	1541.92	1535.38	1526.19	1525.46	1525.23
γ 3.0	1524.51	1533.58	1540.59	1547.01	1545.84	1545.04	1550.87	1538.75	1526.96	1516.93	1516.34	1516.30
γ 4.0	1514.43	1527.78	1536.57	1544.00	1540.98	1538.73	1546.51	1532.19	1519.27	1505.77	1506.10	1506.02
γ 5.0	1502.28	1518.39	1528.76	1535.06	1529.45	1525.52	1537.52	1520.73	1508.90	1493.21	1492.57	1494.22
γ 6.0	1487.99	1505.63	1514.94	1521.10	1510.02	1504.61	1521.93	1503.14	1493.39	1475.63	1477.28	1480.23
γ 7.0	1470.27	1489.18	1496.76	1500.57	1484.75	1480.13	1499.36	1481.03	1472.89	1454.53	1457.59	1462.46
γ 8.0	1449.78	1468.81	1473.83	1476.32	1455.80	1450.60	1473.16	1454.20	1447.97	1428.53	1434.07	1442.50
γ 9.0	1428.18	1446.30	1447.67	1447.88	1424.35	1419.05	1444.43	1424.87	1419.89	1399.12	1406.69	1419.81
γ 10.0	1405.41	1422.41	1419.55	1417.11	1391.28	1386.57	1413.71	1394.26	1388.45	1367.95	1378.31	1394.03
γ 11.0	1381.11	1398.23	1389.67	1385.13	1357.96	1351.91	1380.23	1361.31	1355.52	1336.66	1349.21	1366.88
γ 12.0	1356.43	1372.41	1360.81	1353.07	1322.69	1315.23	1344.67	1326.56	1323.08	1306.14	1318.06	1338.77
γ 13.0	1331.65	1347.86	1330.62	1320.53	1286.66	1278.29	1306.88	1290.09	1289.50	1275.41	1285.96	1309.63
γ 14.0	1307.95	1322.72	1303.07	1286.85	1250.61	1241.77	1269.31	1253.52	1255.82	1245.23	1257.34	1282.15
γ 15.0	1284.15	1298.46	1275.34	1254.59	1217.93	1206.90	1230.82	1216.79	1222.75	1216.36	1231.82	1258.72
γ 16.0	1260.03	1274.46	1248.44	1222.67	1188.86	1173.45	1194.92	1181.14	1191.25	1191.23	1210.92	1236.38
γ 17.0	1237.65	1250.29	1222.64	1192.85	1161.82	1143.38	1159.93	1147.81	1160.19	1167.48	1189.99	1215.71
γ 18.0	1216.29	1228.06	1197.29	1166.73	1132.25	1112.36	1126.44	1115.44	1133.57	1145.95	1170.87	1196.33
γ 19.0	1194.63	1205.83	1171.15	1138.67	1100.59	1076.99	1091.16	1079.63	1106.20	1124.10	1153.73	1177.63
γ 20.0	1168.11	1179.06	1140.83	1109.30	1067.78	1041.85	1055.96	1044.86	1074.81	1097.73	1135.92	1158.72
γ 21.0	1141.75	1148.52	1111.71	1080.33	1036.65	1011.46	1021.40	1013.41	1044.40	1073.84	1115.36	1136.92
γ 22.0	1113.90	1119.43	1082.71	1051.85	1006.99	982.03	988.82	982.10	1015.66	1049.84	1092.45	1113.19
γ 23.0	1085.26	1088.64	1051.87	1021.92	976.85	951.07	958.72	951.70	987.32	1025.00	1068.98	1088.56
γ 24.0	1055.43	1055.58	1019.24	991.32	946.56	921.20	930.03	923.22	959.63	999.84	1043.92	1061.63
γ 25.0	1023.17	1022.78	987.19	961.00	913.74	890.81	901.64	895.70	933.54	972.11	1017.88	1032.33
γ 26.0	990.32	988.85	952.68	928.04	878.33	857.70	872.34	866.20	903.62	942.22	989.60	1003.03
γ 27.0	953.90	951.45	915.04	890.42	840.59	822.60	839.76	833.80	870.18	908.03	957.36	971.40
γ 28.0	912.13	911.04	874.33	850.89	799.81	782.77	804.03	797.93	834.47	869.33	921.98	934.81
γ 29.0	866.19	868.19	830.15	805.24	754.53	740.49	764.84	758.70	793.51	824.41	879.48	892.71
γ 30.0	811.70	817.23	778.62	756.33	707.44	697.54	726.72	720.27	752.30	774.64	829.80	843.99
γ 31.0	754.40	761.35	724.68	704.89	653.78	643.21	681.52	674.45	707.75	724.26	774.39	787.25
γ 32.0	693.80	703.67	663.51	643.38	588.16	578.60	624.85	616.86	650.68	664.26	716.50	728.01
γ 33.0	623.39	639.18	594.40	572.66	516.88	506.65	556.81	548.39	583.36	593.19	650.22	661.19
γ 34.0	547.41	566.76	519.43	499.56	442.92	432.02	482.86	475.68	510.36	518.72	574.67	585.76
γ 35.0	472.41	489.52	444.34	426.00	372.62	359.87	408.58	398.45	435.83	444.28	497.24	510.08
γ 36.0	396.27	414.23	371.02	354.11	302.50	289.64	332.63	323.74	360.95	370.23	423.65	434.17
γ 37.0	324.99	341.07	301.91	286.78	238.09	226.70	262.67	252.67	289.84	299.12	350.20	363.97
γ 38.0	258.10	274.70	237.20	223.49	178.76	168.32	197.99	187.70	221.62	231.37	281.81	295.22
γ 39.0	197.96	212.87	179.52	166.35	129.10	119.06	142.29	133.18	160.67	170.89	218.57	231.96
γ 40.0	145.04	158.38	128.96	117.46	87.55	80.80	97.43	87.87	109.05	118.67	162.32	173.73
γ 41.0	99.83	111.55	87.72	79.52	59.65	55.01	64.36	58.09	70.59	77.99	112.88	123.58
γ 42.0	67.67	74.25	59.44	54.94	43.88	41.83	45.04	40.96	48.14	52.15	75.31	84.24
γ 43.0	47.96	50.45	43.97	42.27	36.10	33.49	36.25	33.74	37.25	39.33	51.44	57.97
γ 44.0	38.81	40.21	36.36	34.43	28.12	26.13	28.96	27.06	30.35	32.01	39.65	43.32
γ 45.0	31.38	32.94	29.00	27.07	21.07	20.01	22.68	20.78	23.94	24.97	31.91	35.33
γ 46.0	24.33	25.56	22.16	20.37	15.72	14.48	17.11	15.42	18.04	18.66	24.68	27.69

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	17. 75	19. 08	15. 99	14. 46	11. 01	10. 05	12. 11	11. 03	12. 63	12. 94	18. 23	20. 64
γ 48. 0	12. 37	13. 64	10. 80	9. 69	7. 21	6. 96	8. 13	7. 27	8. 16	8. 44	12. 55	14. 60
γ 49. 0	8. 31	9. 02	7. 33	6. 51	4. 95	4. 37	5. 54	4. 60	5. 39	5. 37	8. 09	9. 99
γ 50. 0	5. 36	5. 75	4. 99	4. 31	3. 17	2. 57	3. 35	2. 81	3. 33	3. 37	5. 30	6. 63
γ 51. 0	3. 43	4. 09	3. 24	2. 78	1. 75	1. 65	1. 80	1. 62	1. 59	1. 72	3. 34	4. 09
γ 52. 0	2. 53	2. 79	2. 24	1. 90	1. 01	0. 84	0. 99	0. 56	0. 74	0. 90	1. 85	2. 58
γ 53. 0	1. 86	1. 74	1. 71	1. 26	0. 61	0. 19	0. 49	0. 04	0. 18	0. 42	1. 15	1. 83
γ 54. 0	1. 06	1. 22	1. 06	0. 64	0. 13	0. 05	0. 00	0. 00	0. 00	0. 00	0. 65	1. 20
γ 55. 0	0. 61	1. 01	0. 44	0. 22	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 08	0. 54
γ 56. 0	0. 55	0. 45	0. 32	0. 14	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 21
γ 57. 0	0. 14	0. 01	0. 16	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 09
γ 58. 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 59. 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 60. 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 61. 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 62. 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 63. 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 64. 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 65. 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 66. 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 67. 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 68. 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 69. 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 70. 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 71. 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 72. 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 73. 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 74. 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 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



IES Indoor Report

Photometric Filename:UL-12W-COB-1200-AH 60D.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 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. 12	0. 00	0. 05	0. 00	0. 00
γ 118. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 05	0. 00	0. 00	0. 00	0. 00
γ 119. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 30	0. 34	0. 17	0. 06	0. 00	0. 06
γ 120. 0	0. 00	0. 01	0. 05	0. 18	0. 24	0. 32	0. 53	0. 60	0. 50	0. 51	0. 24	0. 10
γ 121. 0	0. 16	0. 15	0. 00	0. 13	0. 21	0. 24	0. 55	0. 62	0. 57	0. 55	0. 44	0. 14
γ 122. 0	0. 20	0. 07	0. 17	0. 12	0. 25	0. 28	0. 73	0. 75	0. 64	0. 52	0. 45	0. 51
γ 123. 0	0. 21	0. 25	0. 53	0. 50	0. 61	0. 70	1. 15	1. 22	0. 99	0. 89	0. 60	0. 73
γ 124. 0	0. 51	0. 59	0. 54	0. 68	0. 81	0. 93	1. 30	1. 33	1. 26	1. 17	0. 97	0. 75
γ 125. 0	0. 74	0. 62	0. 64	0. 69	0. 84	0. 89	1. 37	1. 39	1. 30	1. 20	1. 20	0. 99
γ 126. 0	0. 69	0. 71	0. 94	0. 92	1. 10	1. 19	1. 71	1. 80	1. 53	1. 43	1. 20	1. 38
γ 127. 0	0. 97	1. 14	1. 18	1. 31	1. 47	1. 56	2. 22	2. 14	1. 94	1. 89	1. 53	1. 45
γ 128. 0	1. 37	1. 31	1. 19	1. 42	1. 61	1. 60	2. 21	2. 20	2. 22	2. 10	1. 90	1. 66
γ 129. 0	1. 40	1. 31	1. 52	1. 48	1. 78	1. 82	2. 43	2. 50	2. 22	2. 21	1. 97	2. 02
γ 130. 0	1. 58	1. 72	1. 90	1. 89	2. 11	2. 33	2. 93	3. 02	2. 68	2. 55	2. 20	2. 25
γ 131. 0	2. 05	2. 04	2. 00	2. 26	2. 45	2. 50	3. 24	3. 15	3. 12	3. 02	2. 62	2. 32
γ 132. 0	2. 19	2. 10	2. 13	2. 34	2. 57	2. 66	3. 36	3. 36	3. 21	3. 11	2. 95	2. 76
γ 133. 0	2. 29	2. 32	2. 61	2. 54	2. 84	3. 03	3. 75	3. 93	3. 52	3. 31	2. 97	3. 12
γ 134. 0	2. 80	2. 79	2. 92	3. 07	3. 29	3. 44	4. 23	4. 24	4. 05	3. 86	3. 36	3. 31
γ 135. 0	3. 08	3. 01	3. 07	3. 24	3. 56	3. 59	4. 47	4. 37	4. 30	4. 08	3. 83	3. 59
γ 136. 0	3. 25	3. 13	3. 40	3. 38	3. 68	3. 94	4. 64	4. 82	4. 45	4. 27	4. 04	4. 14
γ 137. 0	3. 58	3. 73	3. 87	3. 90	4. 05	4. 37	5. 22	5. 34	4. 97	4. 76	4. 25	4. 37
γ 138. 0	4. 07	4. 01	4. 10	4. 29	4. 57	4. 66	5. 63	5. 50	5. 45	5. 27	4. 80	4. 60
γ 139. 0	4. 28	4. 15	4. 31	4. 42	4. 79	4. 83	5. 83	5. 88	5. 58	5. 41	5. 18	5. 13
γ 140. 0	4. 56	4. 52	4. 80	4. 73	5. 00	5. 45	6. 25	6. 50	5. 88	5. 72	5. 34	5. 53

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	5.13	5.06	5.16	5.35	5.54	5.79	6.79	6.74	6.43	6.27	5.70	5.68
γ 142.0	5.43	5.26	5.30	5.55	5.84	5.94	7.11	6.92	6.85	6.64	6.30	6.14
γ 143.0	5.54	5.56	5.63	5.75	5.99	6.35	7.32	7.55	7.03	6.84	6.61	6.67
γ 144.0	6.09	6.13	6.25	6.24	6.50	6.90	7.82	7.97	7.44	7.28	6.79	6.86
γ 145.0	6.53	6.41	6.44	6.72	7.05	7.15	8.35	8.08	7.95	7.80	7.28	7.16
γ 146.0	6.67	6.55	6.68	6.88	7.18	7.32	8.44	8.53	8.18	8.05	7.80	7.79
γ 147.0	7.10	6.97	7.21	7.19	7.47	7.79	8.86	9.06	8.47	8.27	7.91	8.03
γ 148.0	7.47	7.51	7.60	7.68	8.06	8.25	9.43	9.18	9.10	8.84	8.27	8.16
γ 149.0	7.77	7.63	7.74	8.06	8.33	8.39	9.64	9.49	9.39	9.26	8.83	8.69
γ 150.0	7.90	7.95	8.19	8.29	8.47	8.71	9.78	10.04	9.51	9.36	9.28	9.10
γ 151.0	8.48	8.48	8.59	8.75	8.93	9.17	10.26	10.22	9.99	9.80	9.37	9.24
γ 152.0	8.76	8.65	8.84	9.15	9.37	9.49	10.62	10.37	10.50	10.27	9.81	9.57
γ 153.0	8.86	8.82	9.02	9.32	9.41	9.45	10.73	10.81	10.60	10.45	10.25	10.12
γ 154.0	9.11	9.28	9.50	9.51	9.68	9.86	10.95	11.14	10.75	10.61	10.45	10.27
γ 155.0	9.58	9.66	9.82	10.03	10.13	10.23	11.40	11.18	11.22	11.11	10.59	10.47
γ 156.0	9.76	9.70	9.95	10.27	10.33	10.29	11.60	11.38	11.48	11.41	11.02	10.98
γ 157.0	9.91	9.99	10.23	10.35	10.39	10.53	11.67	11.86	11.47	11.36	11.36	11.17
γ 158.0	10.42	10.50	10.68	10.66	10.78	10.96	11.98	11.92	11.77	11.62	11.41	11.21
γ 159.0	10.64	10.64	10.79	11.10	11.16	11.07	12.41	12.02	12.18	12.07	11.65	11.62
γ 160.0	10.74	10.78	10.96	11.10	11.21	11.12	12.41	12.43	12.20	12.23	12.09	11.94
γ 161.0	11.09	11.18	11.42	11.36	11.39	11.49	12.62	12.60	12.34	12.27	12.22	12.01
γ 162.0	11.49	11.54	11.74	11.82	11.86	11.91	13.00	12.69	12.82	12.80	12.26	12.27
γ 163.0	11.71	11.63	11.79	12.06	12.12	11.99	13.28	13.00	13.03	13.06	12.75	12.72
γ 164.0	11.91	11.92	12.06	12.11	12.16	12.30	13.30	13.40	13.12	13.07	13.04	12.81
γ 165.0	12.39	12.40	12.57	12.51	12.56	12.71	13.63	13.46	13.34	13.32	13.06	13.00
γ 166.0	12.68	12.61	12.75	12.93	13.01	12.96	14.02	13.54	13.75	13.68	13.28	13.51
γ 167.0	12.83	12.77	12.87	13.04	13.11	13.07	14.13	14.01	13.81	13.87	13.66	13.63
γ 168.0	13.26	13.26	13.29	13.24	13.30	13.47	14.30	14.24	13.89	13.92	13.97	13.67
γ 169.0	13.75	13.57	13.64	13.73	13.73	13.83	14.68	14.26	14.35	14.28	13.95	14.06
γ 170.0	13.77	13.61	13.78	13.99	14.07	14.00	14.90	14.47	14.51	14.56	14.27	14.33
γ 171.0	14.25	14.08	14.22	14.33	14.35	14.35	15.11	14.65	14.71	14.67	14.40	14.48
γ 172.0	14.40	14.21	14.28	14.52	14.63	14.55	15.40	14.83	14.93	14.96	14.59	14.82
γ 173.0	14.74	14.46	14.63	14.68	14.85	14.79	15.61	15.01	15.12	15.19	14.79	14.97
γ 174.0	14.88	14.60	14.64	14.80	15.01	14.88	15.70	15.22	15.22	15.28	15.14	15.08
γ 175.0	15.17	14.87	15.01	15.05	15.29	15.12	15.92	15.34	15.48	15.46	15.27	15.29
γ 176.0	15.46	15.33	15.23	15.27	15.20	15.44	15.93	15.67	15.47	15.27	15.35	15.30
γ 177.0	15.53	15.38	15.26	15.25	15.50	15.38	15.93	15.77	15.52	15.62	15.61	15.51
γ 178.0	15.96	15.42	15.61	15.51	15.65	15.62	16.24	15.69	15.74	15.70	15.56	15.78
γ 179.0	16.00	15.78	15.62	15.62	15.79	15.72	16.08	15.75	15.67	15.86	15.76	15.77
γ 180.0	15.92	15.92	15.92	15.92	15.92	15.92	15.92	15.92	15.92	15.92	15.92	15.92