

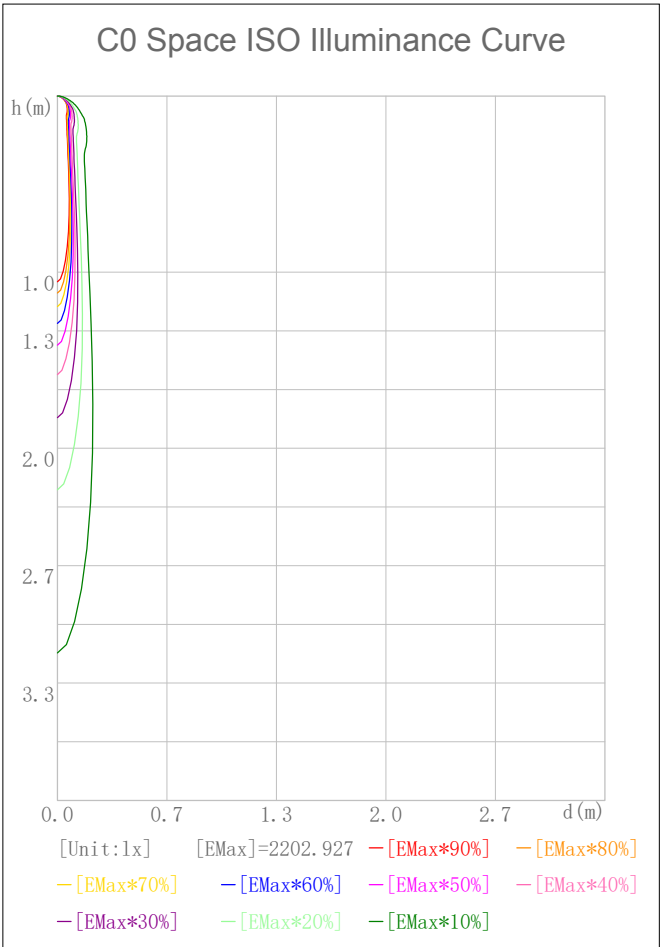
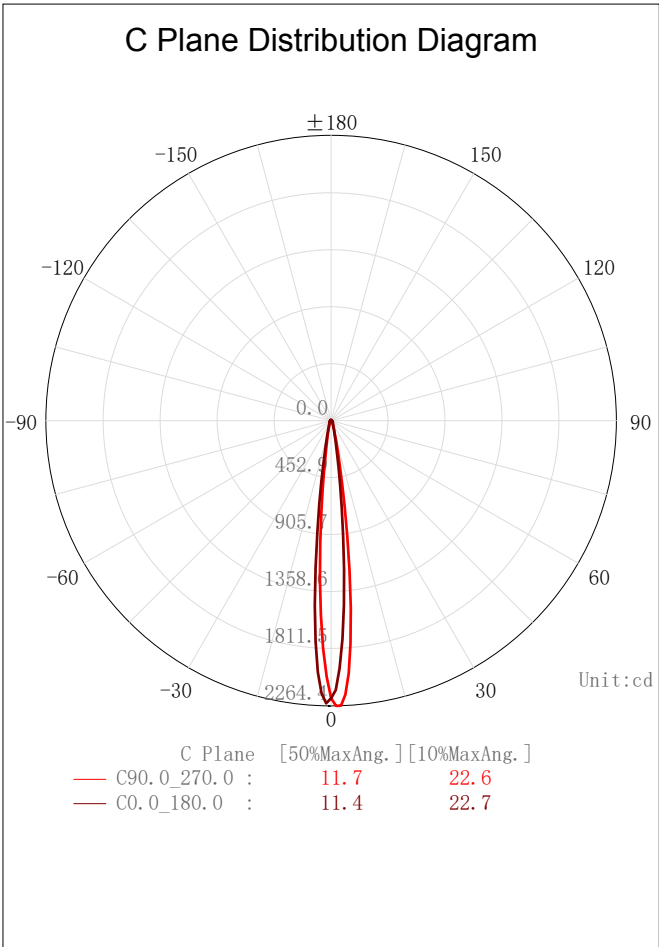
Indoor Luminaire Photometric Data

Description Information

Luminary Name:		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2017/07/31
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

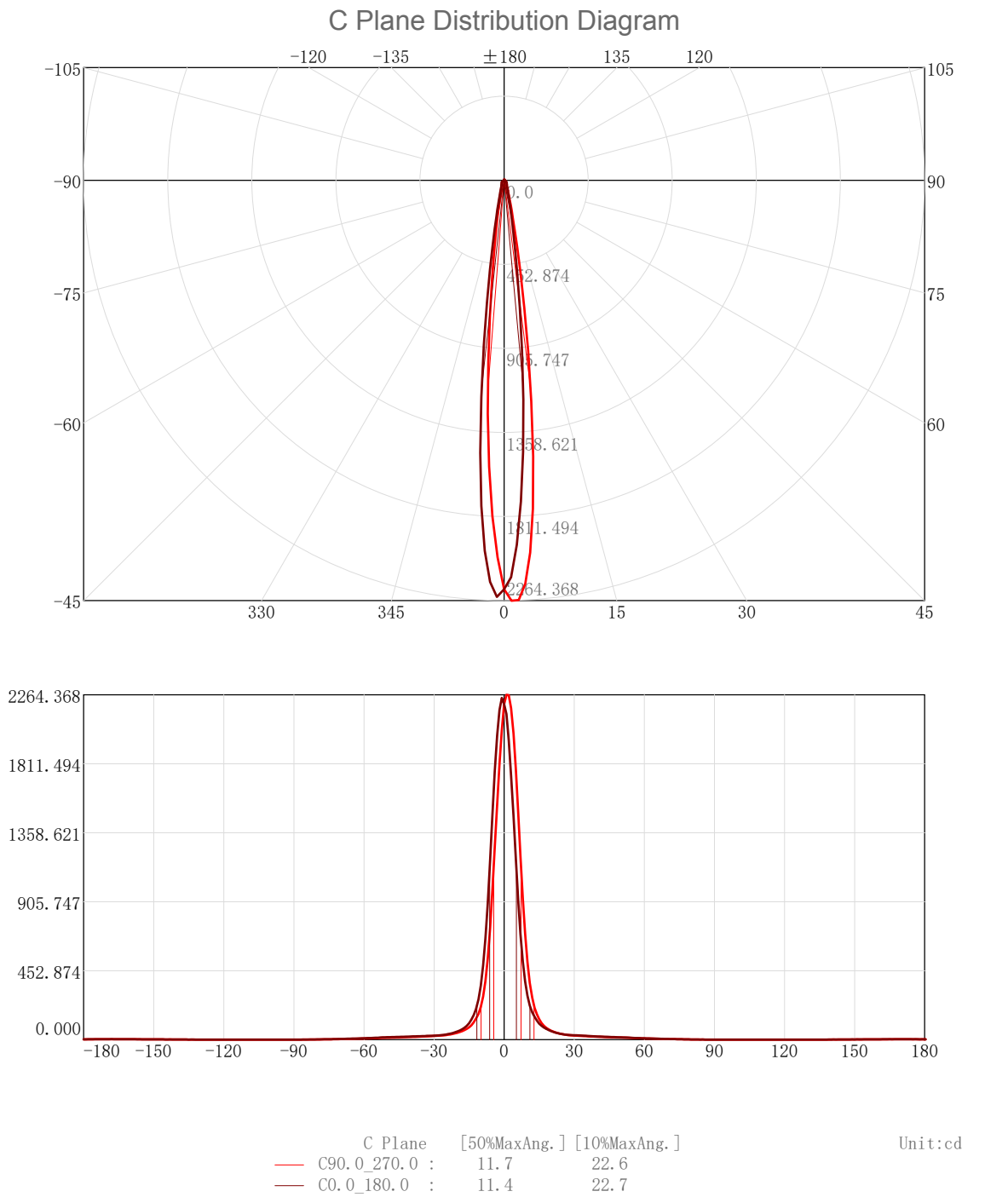
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 192.550	Luminary Flux(lm): 201.792	Field Angle(10%Imax): 22.6(°)	
Rated Power(W):	Luminary Efficiency: 104.80%	Down Lumens&Percent: 192.896lm 95.59%	
Rated Voltage(V):	Luminary EER(lm/W): 17.321	Up Lumens&Percent: 8.895lm 4.41%	
Tested Power(W): 11.650	Max. Candela(cd): 2264.368	S/MH: C0_a180=0.201 C90_270=0.207	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):220.4, 0.056, 0.931	Beam Angle(50%Imax): 11.7(°)	ErP Φ use(90°): 165.081lm	
Lamp Size (W*L*H):0.050m*0.050m*0.000m	Left=-4.5°, Right=7.2°	IRF(%): 2828.823	



2D Plane Light Intensity Distribution Curve

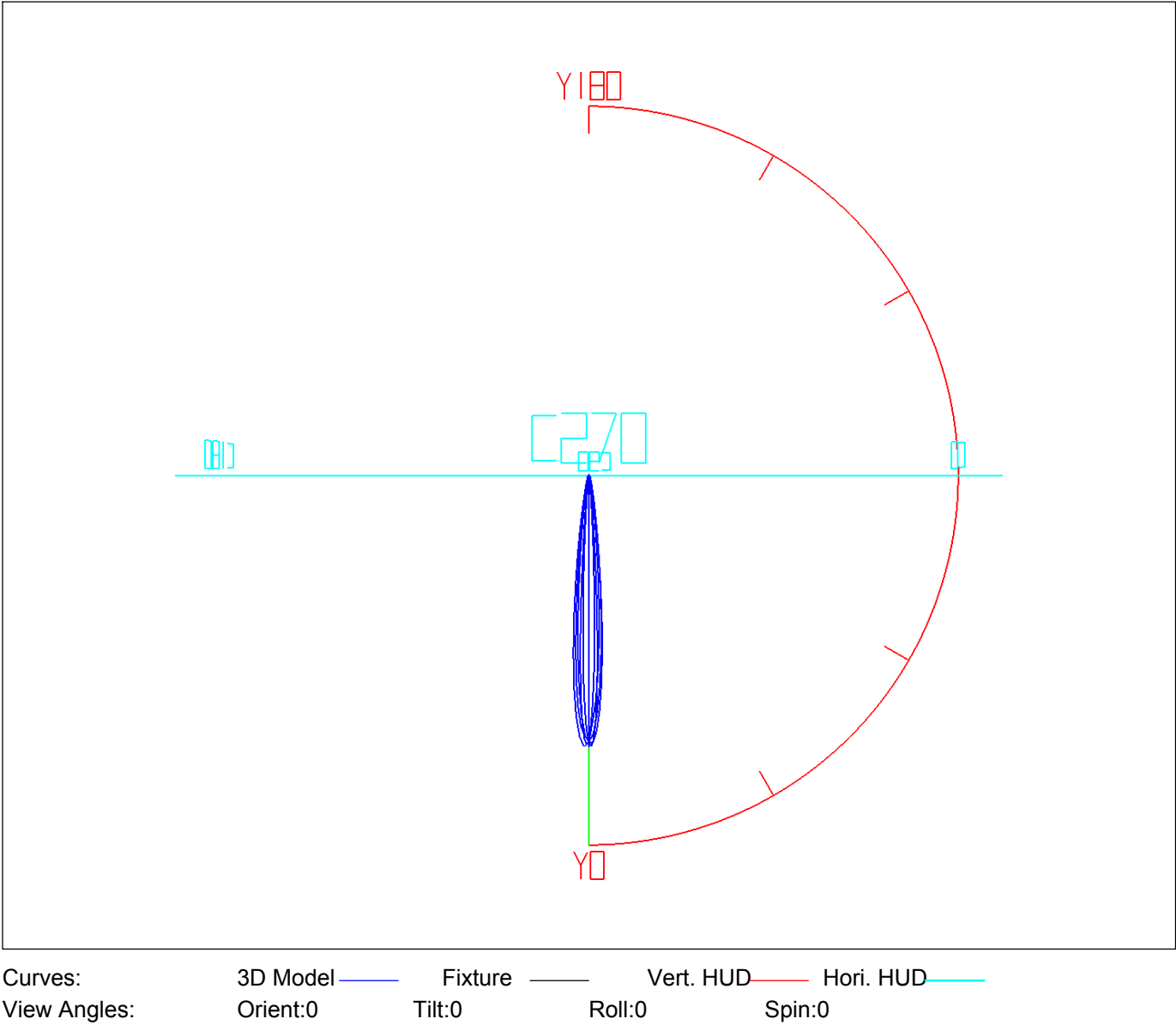
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31



3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31

3D Light Intensity Distribution Modal



Zonal Flux Tabulation

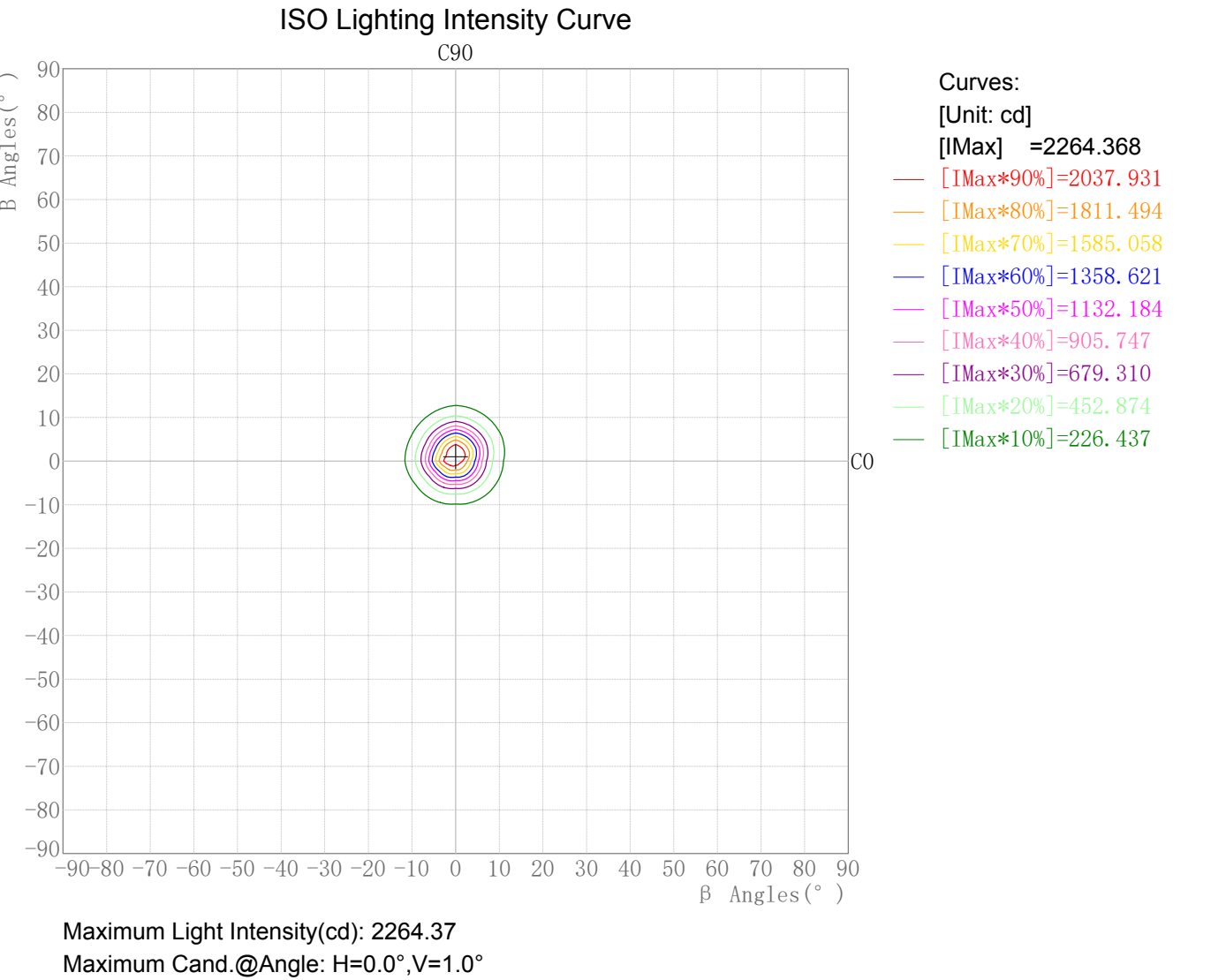
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	2.09	2.09	1.08	1.08	47.0-48.0	1.30	167.80	0.68	87.15
1.0-2.0	6.02	8.11	3.13	4.21	48.0-49.0	1.28	169.09	0.67	87.82
2.0-3.0	9.30	17.40	4.83	9.04	49.0-50.0	1.27	170.36	0.66	88.47
3.0-4.0	11.58	28.98	6.01	15.05	50.0-51.0	1.25	171.60	0.65	89.12
4.0-5.0	12.68	41.66	6.59	21.63	51.0-52.0	1.23	172.83	0.64	89.76
5.0-6.0	12.62	54.28	6.56	28.19	52.0-53.0	1.19	174.02	0.62	90.38
6.0-7.0	11.65	65.93	6.05	34.24	53.0-54.0	1.14	175.16	0.59	90.97
7.0-8.0	10.18	76.11	5.29	39.53	54.0-55.0	1.07	176.23	0.56	91.52
8.0-9.0	8.58	84.70	4.46	43.99	55.0-56.0	1.02	177.25	0.53	92.05
9.0-10.0	7.09	91.79	3.68	47.67	56.0-57.0	0.98	178.23	0.51	92.56
10.0-11.0	5.84	97.63	3.03	50.70	57.0-58.0	0.94	179.17	0.49	93.05
11.0-12.0	4.88	102.51	2.53	53.24	58.0-59.0	0.91	180.08	0.47	93.52
12.0-13.0	4.18	106.69	2.17	55.41	59.0-60.0	0.87	180.95	0.45	93.97
13.0-14.0	3.66	110.35	1.90	57.31	60.0-61.0	0.83	181.78	0.43	94.41
14.0-15.0	3.23	113.57	1.67	58.98	61.0-62.0	0.81	182.58	0.42	94.82
15.0-16.0	2.88	116.45	1.50	60.48	62.0-63.0	0.77	183.36	0.40	95.23
16.0-17.0	2.62	119.07	1.36	61.84	63.0-64.0	0.74	184.09	0.38	95.61
17.0-18.0	2.42	121.49	1.26	63.10	64.0-65.0	0.71	184.80	0.37	95.98
18.0-19.0	2.25	123.74	1.17	64.26	65.0-66.0	0.68	185.48	0.35	96.33
19.0-20.0	2.10	125.84	1.09	65.35	66.0-67.0	0.64	186.11	0.33	96.66
20.0-21.0	1.97	127.81	1.02	66.38	67.0-68.0	0.60	186.71	0.31	96.97
21.0-22.0	1.86	129.67	0.97	67.35	68.0-69.0	0.57	187.28	0.30	97.26
22.0-23.0	1.77	131.44	0.92	68.26	69.0-70.0	0.53	187.81	0.27	97.54
23.0-24.0	1.68	133.12	0.87	69.14	70.0-71.0	0.49	188.30	0.25	97.79
24.0-25.0	1.61	134.73	0.84	69.97	71.0-72.0	0.46	188.76	0.24	98.03
25.0-26.0	1.56	136.29	0.81	70.78	72.0-73.0	0.43	189.19	0.22	98.25
26.0-27.0	1.52	137.81	0.79	71.57	73.0-74.0	0.39	189.57	0.20	98.45
27.0-28.0	1.50	139.31	0.78	72.35	74.0-75.0	0.36	189.94	0.19	98.64
28.0-29.0	1.48	140.79	0.77	73.12	75.0-76.0	0.34	190.28	0.18	98.82
29.0-30.0	1.48	142.27	0.77	73.89	76.0-77.0	0.30	190.58	0.16	98.98
30.0-31.0	1.49	143.76	0.77	74.66	77.0-78.0	0.28	190.86	0.15	99.12
31.0-32.0	1.49	145.26	0.77	75.44	78.0-79.0	0.27	191.13	0.14	99.26
32.0-33.0	1.49	146.75	0.77	76.21	79.0-80.0	0.24	191.37	0.12	99.39
33.0-34.0	1.49	148.23	0.77	76.98	80.0-81.0	0.22	191.59	0.11	99.50
34.0-35.0	1.48	149.72	0.77	77.75	81.0-82.0	0.21	191.79	0.11	99.61
35.0-36.0	1.47	151.19	0.76	78.52	82.0-83.0	0.19	191.98	0.10	99.70
36.0-37.0	1.46	152.65	0.76	79.28	83.0-84.0	0.17	192.15	0.09	99.79
37.0-38.0	1.45	154.10	0.75	80.03	84.0-85.0	0.16	192.30	0.08	99.87
38.0-39.0	1.43	155.54	0.74	80.78	85.0-86.0	0.14	192.45	0.07	99.95
39.0-40.0	1.42	156.96	0.74	81.51	86.0-87.0	0.12	192.57	0.06	100.01
40.0-41.0	1.41	158.36	0.73	82.25	87.0-88.0	0.12	192.69	0.06	100.07
41.0-42.0	1.39	159.76	0.72	82.97	88.0-89.0	0.11	192.80	0.06	100.13
42.0-43.0	1.38	161.13	0.71	83.68	89.0-90.0	0.10	192.90	0.05	100.18
43.0-44.0	1.36	162.50	0.71	84.39	90.0-91.0	0.10	193.00	0.05	100.23
44.0-45.0	1.35	163.85	0.70	85.09	91.0-92.0	0.10	193.10	0.05	100.29
45.0-46.0	1.33	165.18	0.69	85.79	92.0-93.0	0.10	193.20	0.05	100.34
46.0-47.0	1.32	166.50	0.69	86.47	93.0-94.0	0.10	193.30	0.05	100.39

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	0.10	193.41	0.05	100.44	141.0-142.0	0.11	198.22	0.06	102.95
95.0-96.0	0.10	193.51	0.05	100.50	142.0-143.0	0.12	198.34	0.06	103.01
96.0-97.0	0.10	193.61	0.05	100.55	143.0-144.0	0.12	198.46	0.06	103.07
97.0-98.0	0.10	193.72	0.05	100.61	144.0-145.0	0.12	198.58	0.06	103.13
98.0-99.0	0.10	193.82	0.05	100.66	145.0-146.0	0.12	198.71	0.06	103.20
99.0-100.0	0.10	193.92	0.05	100.71	146.0-147.0	0.13	198.83	0.07	103.26
100.0-101.0	0.11	194.03	0.05	100.77	147.0-148.0	0.13	198.96	0.07	103.33
101.0-102.0	0.10	194.13	0.05	100.82	148.0-149.0	0.13	199.09	0.07	103.40
102.0-103.0	0.10	194.23	0.05	100.87	149.0-150.0	0.13	199.23	0.07	103.47
103.0-104.0	0.11	194.34	0.06	100.93	150.0-151.0	0.13	199.36	0.07	103.54
104.0-105.0	0.10	194.44	0.05	100.98	151.0-152.0	0.13	199.49	0.07	103.60
105.0-106.0	0.10	194.54	0.05	101.03	152.0-153.0	0.13	199.62	0.07	103.67
106.0-107.0	0.10	194.65	0.05	101.09	153.0-154.0	0.13	199.75	0.07	103.74
107.0-108.0	0.10	194.75	0.05	101.14	154.0-155.0	0.13	199.88	0.07	103.81
108.0-109.0	0.10	194.85	0.05	101.19	155.0-156.0	0.13	200.01	0.07	103.87
109.0-110.0	0.11	194.96	0.05	101.25	156.0-157.0	0.13	200.13	0.06	103.94
110.0-111.0	0.11	195.06	0.05	101.30	157.0-158.0	0.12	200.26	0.06	104.00
111.0-112.0	0.10	195.16	0.05	101.36	158.0-159.0	0.12	200.38	0.06	104.06
112.0-113.0	0.10	195.27	0.05	101.41	159.0-160.0	0.12	200.49	0.06	104.13
113.0-114.0	0.11	195.37	0.05	101.47	160.0-161.0	0.12	200.61	0.06	104.19
114.0-115.0	0.10	195.48	0.05	101.52	161.0-162.0	0.11	200.72	0.06	104.24
115.0-116.0	0.10	195.58	0.05	101.57	162.0-163.0	0.11	200.83	0.06	104.30
116.0-117.0	0.10	195.68	0.05	101.63	163.0-164.0	0.11	200.94	0.06	104.36
117.0-118.0	0.10	195.78	0.05	101.68	164.0-165.0	0.10	201.04	0.05	104.41
118.0-119.0	0.10	195.89	0.05	101.73	165.0-166.0	0.10	201.13	0.05	104.46
119.0-120.0	0.10	195.99	0.05	101.79	166.0-167.0	0.09	201.23	0.05	104.51
120.0-121.0	0.10	196.09	0.05	101.84	167.0-168.0	0.09	201.31	0.04	104.55
121.0-122.0	0.10	196.19	0.05	101.89	168.0-169.0	0.08	201.39	0.04	104.59
122.0-123.0	0.10	196.29	0.05	101.94	169.0-170.0	0.07	201.46	0.04	104.63
123.0-124.0	0.10	196.39	0.05	102.00	170.0-171.0	0.07	201.53	0.03	104.66
124.0-125.0	0.10	196.49	0.05	102.05	171.0-172.0	0.06	201.59	0.03	104.69
125.0-126.0	0.10	196.59	0.05	102.10	172.0-173.0	0.05	201.64	0.03	104.72
126.0-127.0	0.10	196.69	0.05	102.15	173.0-174.0	0.04	201.68	0.02	104.74
127.0-128.0	0.10	196.79	0.05	102.20	174.0-175.0	0.04	201.72	0.02	104.76
128.0-129.0	0.10	196.89	0.05	102.25	175.0-176.0	0.03	201.75	0.01	104.78
129.0-130.0	0.10	196.99	0.05	102.30	176.0-177.0	0.02	201.77	0.01	104.79
130.0-131.0	0.10	197.08	0.05	102.36	177.0-178.0	0.01	201.78	0.01	104.79
131.0-132.0	0.10	197.18	0.05	102.41	178.0-179.0	0.01	201.79	0.00	104.80
132.0-133.0	0.10	197.28	0.05	102.46	179.0-180.0	0.00	201.79	0.00	104.80
133.0-134.0	0.10	197.38	0.05	102.51					
134.0-135.0	0.10	197.48	0.05	102.56					
135.0-136.0	0.10	197.58	0.05	102.61					
136.0-137.0	0.10	197.68	0.05	102.67					
137.0-138.0	0.10	197.79	0.05	102.72					
138.0-139.0	0.11	197.89	0.05	102.77					
139.0-140.0	0.11	198.00	0.06	102.83					
140.0-141.0	0.11	198.11	0.06	102.89					

Rectangle ISO Lighting Intensity Diagram

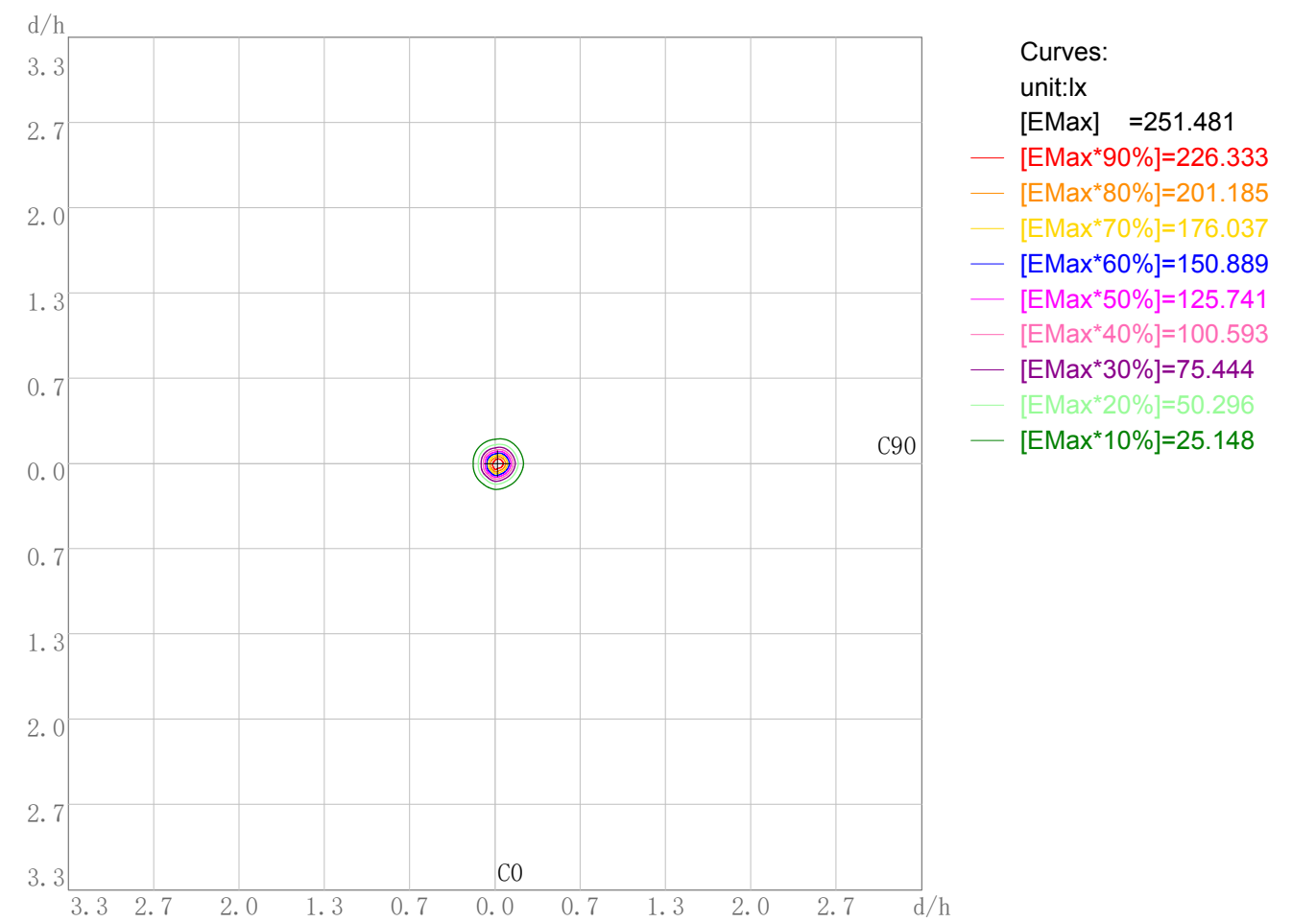
Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31



Plane ISO-Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31

Plane ISO-Illuminance Curve

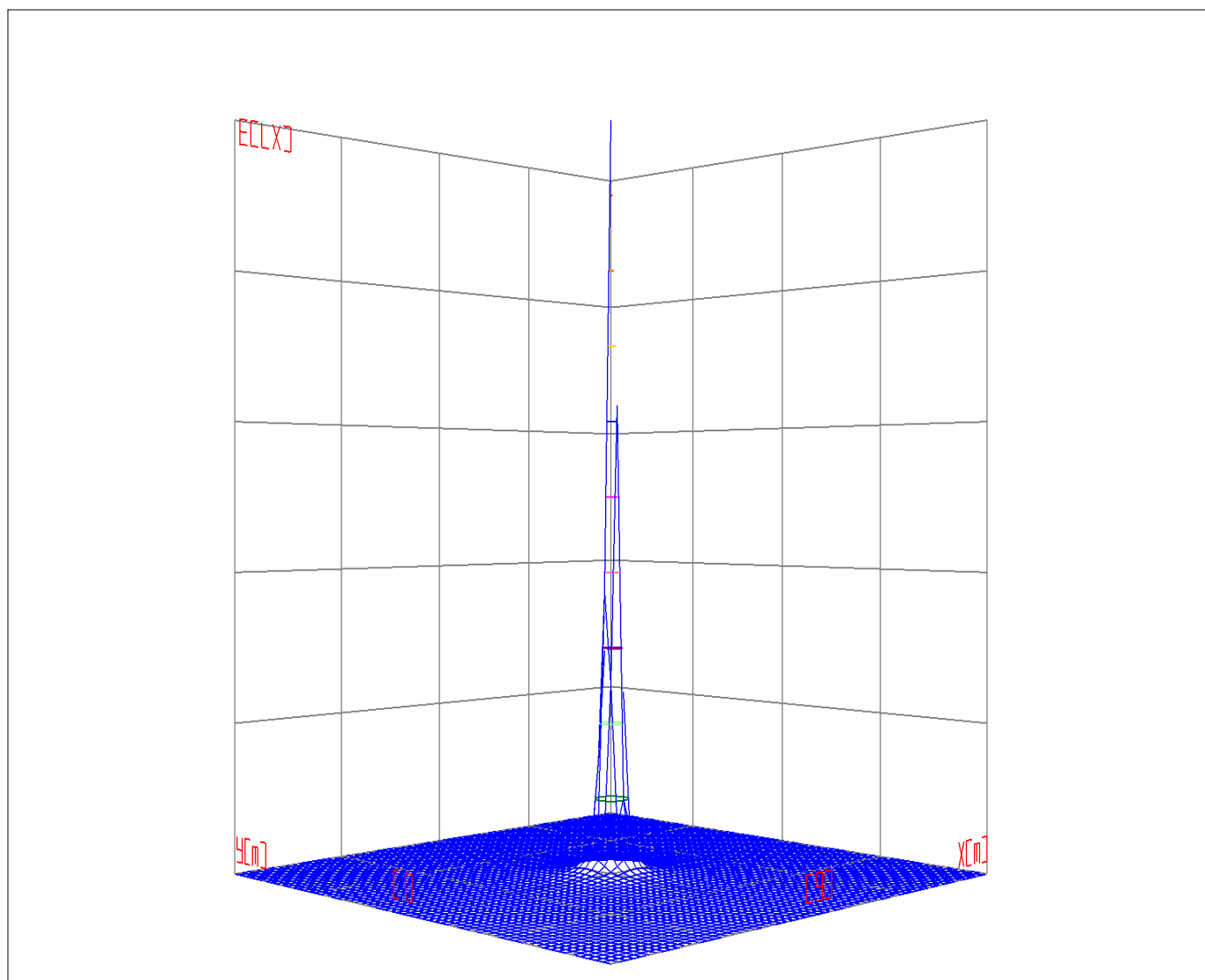


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 251.48
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31

3D Plane Illuminance Modal

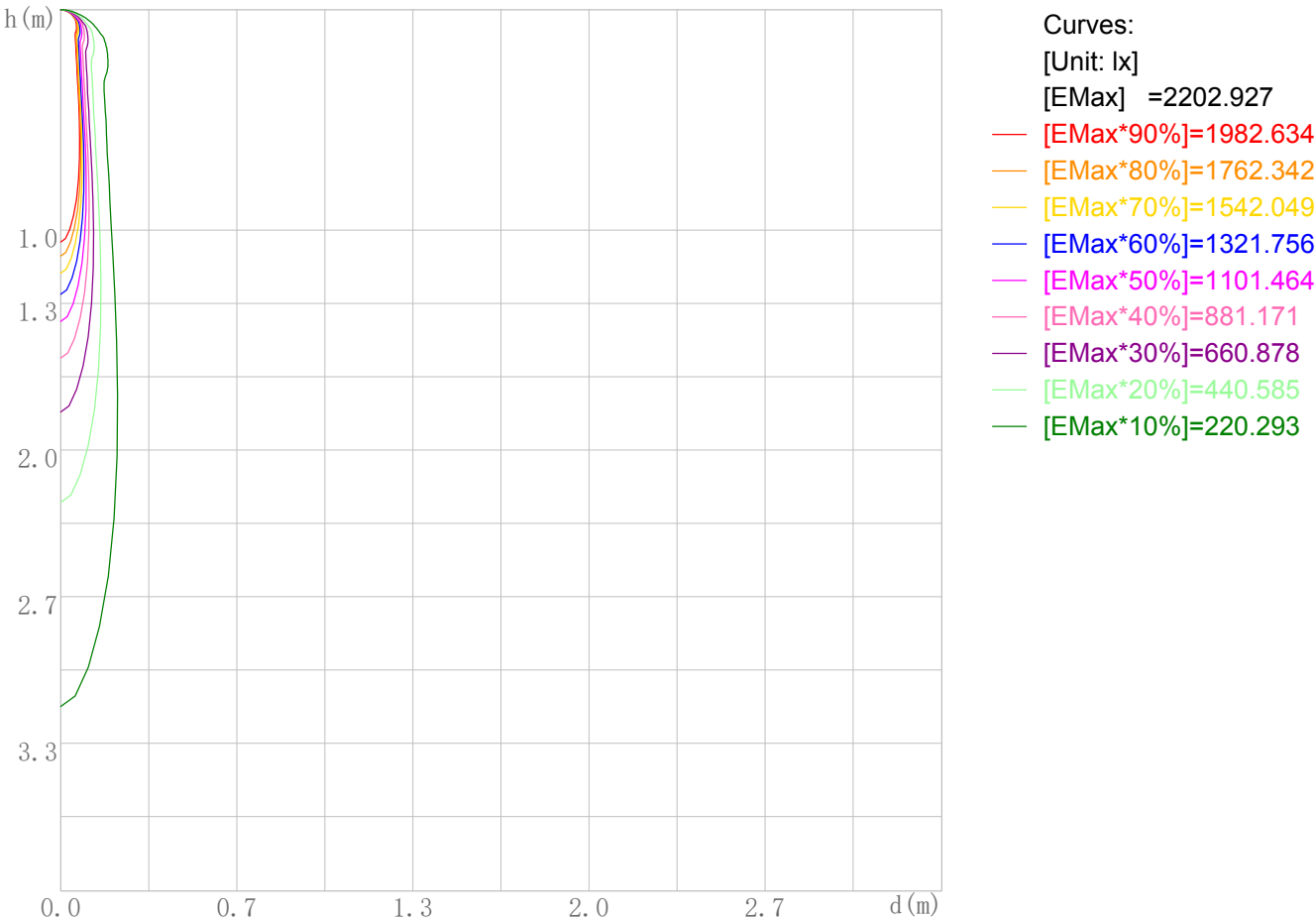


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
 View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31

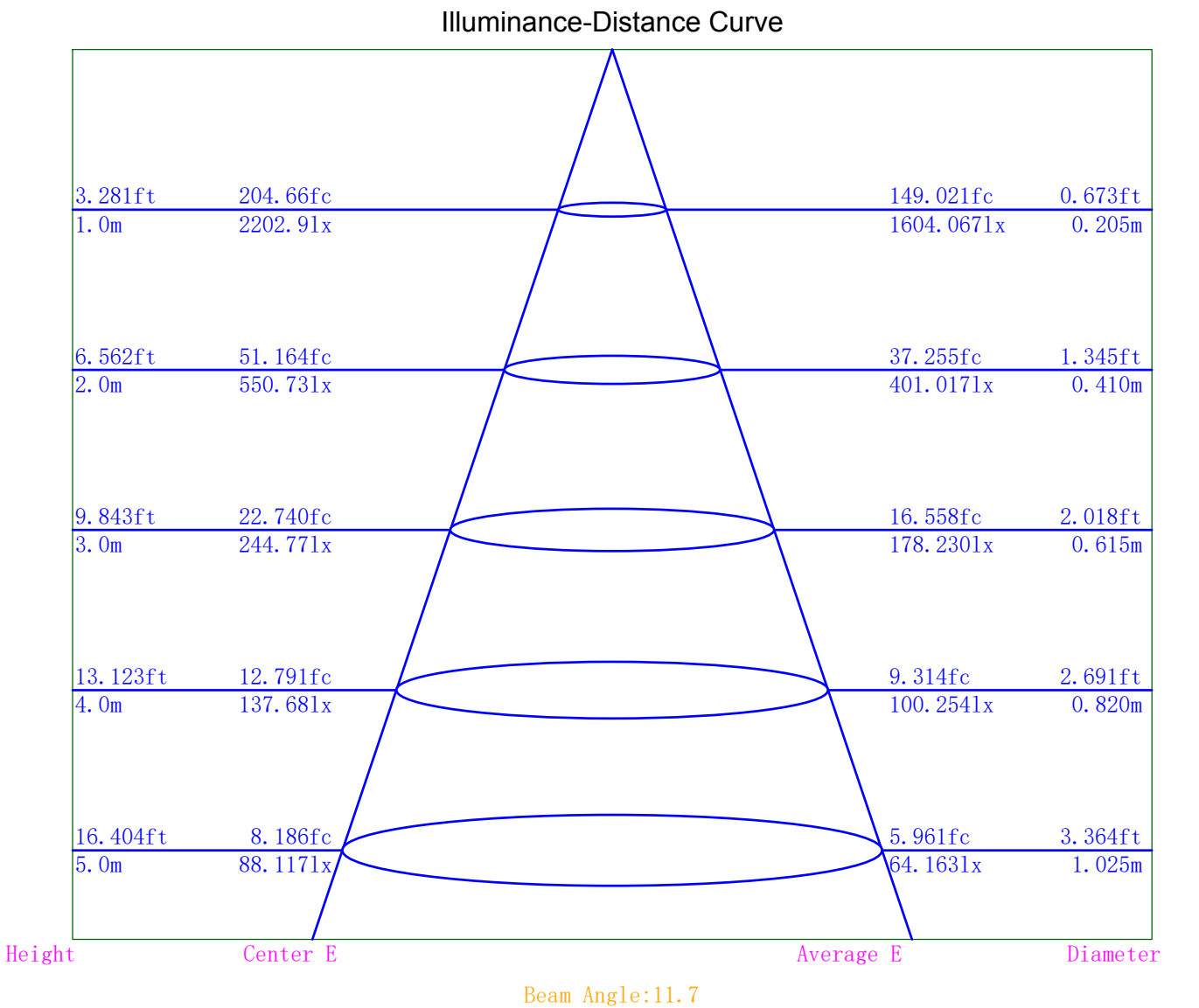
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:2202.93lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:2202.927cd,0deg

Illuminance-Distance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31



Indoor Luminance Limiting Curves

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31

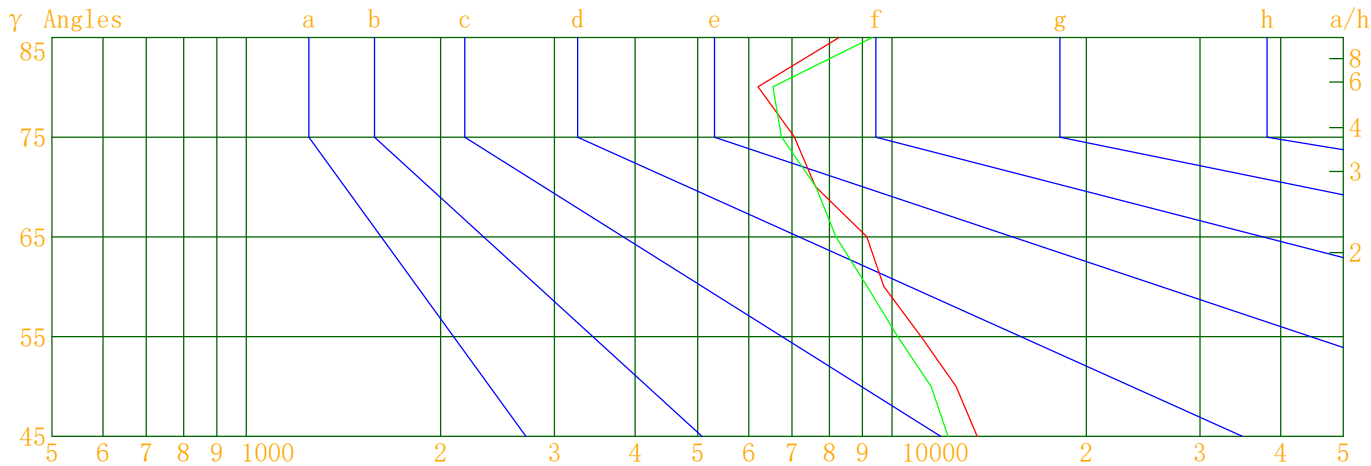
Glare Grade Table

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	13554	12564	11091	9715	9138	7614	7058	6203	8280
C90	12213	11496	10205	9153	8186	7621	6742	6540	9320

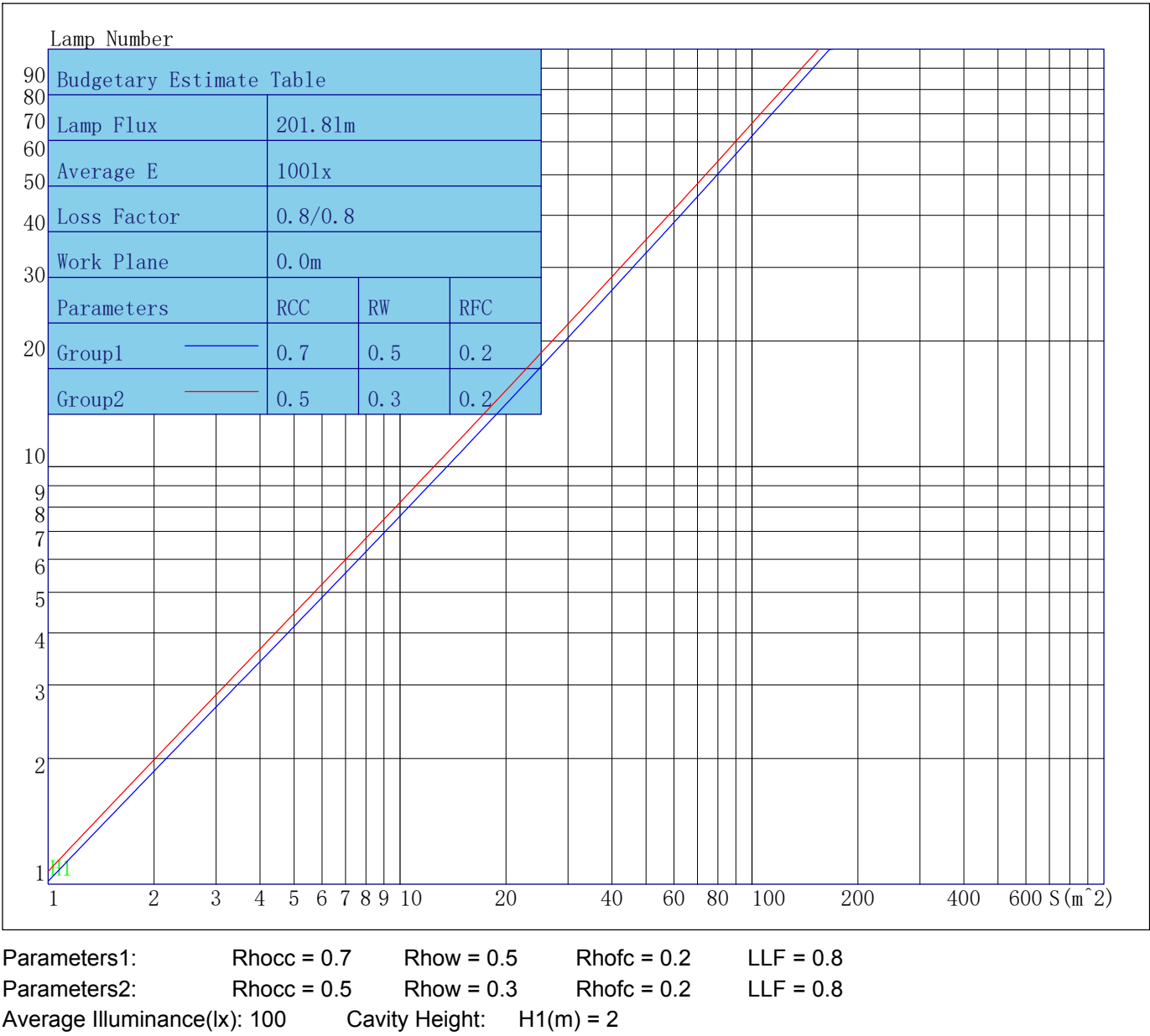
Luminance Limiting Curve



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

Lum. Name:	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2017/07/31



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 7 columns: Coef., Effective Floor Cavity Reflectance RFC=0.20, RhoCC (%), RhoW (%), RCR, Coefficient of Utilization (%), and numerical values for RCR 0-10.

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 Ceiling, Wall, Floor, Room Size variations, and Nordic Standard 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-BH 10D.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	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93	2202.93
γ 1.0	2138.01	2216.33	2256.51	2264.37	2233.02	2159.35	2244.11	2144.22	2106.26	2031.25	2052.89	2033.06
γ 2.0	1964.63	2127.60	2209.48	2262.06	2199.45	2096.19	2164.51	1981.12	1915.94	1809.92	1857.16	1859.84
γ 3.0	1732.67	1965.12	2082.65	2176.53	2079.94	1949.41	1998.17	1751.00	1668.21	1544.61	1610.36	1632.95
γ 4.0	1466.50	1742.83	1886.61	2009.67	1883.60	1732.88	1758.33	1476.94	1384.45	1260.51	1333.47	1374.06
γ 5.0	1187.17	1478.40	1635.21	1775.07	1625.67	1465.33	1472.83	1186.90	1095.06	980.46	1053.54	1104.20
γ 6.0	919.91	1198.85	1352.96	1494.64	1336.38	1177.77	1173.39	908.90	826.49	730.12	795.40	848.65
γ 7.0	690.22	929.96	1068.22	1200.39	1045.23	903.98	895.26	673.22	607.79	532.61	587.01	631.69
γ 8.0	513.87	703.06	814.40	926.68	790.74	676.25	666.63	489.02	441.08	385.50	430.84	467.00
γ 9.0	381.92	525.43	608.04	696.47	582.75	496.20	487.59	355.31	321.42	283.31	316.99	346.23
γ 10.0	289.21	389.35	447.44	510.86	424.76	362.32	355.57	265.19	241.10	215.53	239.50	261.11
γ 11.0	224.70	292.89	331.88	371.92	313.42	269.64	265.13	202.68	186.10	169.17	186.13	202.58
γ 12.0	180.18	225.55	250.36	276.11	235.28	205.80	202.61	161.56	150.78	139.39	151.09	162.77
γ 13.0	150.92	180.31	195.32	210.58	184.72	164.77	162.43	131.94	124.13	114.96	126.48	136.98
γ 14.0	125.78	149.52	159.24	168.58	149.45	133.46	132.06	108.16	102.60	94.96	104.99	114.43
γ 15.0	105.53	122.78	128.76	135.41	120.68	109.02	108.17	91.04	87.41	81.70	88.92	96.34
γ 16.0	91.89	102.65	105.85	109.73	100.12	92.31	91.40	78.87	76.05	71.43	77.69	84.04
γ 17.0	80.78	88.76	90.40	91.98	85.80	79.64	78.91	69.19	67.04	63.17	68.38	73.86
γ 18.0	72.06	77.25	78.10	78.53	74.46	69.71	68.80	61.16	59.68	56.68	61.12	65.95
γ 19.0	64.10	68.22	68.19	68.56	65.23	61.77	60.75	54.28	53.04	50.62	54.25	58.83
γ 20.0	57.17	60.36	59.80	60.17	57.42	54.94	54.28	48.99	47.96	45.83	48.84	52.54
γ 21.0	51.69	53.87	53.23	53.32	51.49	49.39	48.91	44.40	43.59	41.87	44.40	47.56
γ 22.0	46.93	48.25	47.70	48.22	46.29	44.75	44.26	40.35	39.61	38.40	40.42	43.29
γ 23.0	42.62	43.66	43.13	43.57	41.94	40.89	40.55	37.18	36.27	35.12	36.87	39.34
γ 24.0	39.25	39.75	39.42	39.56	38.44	37.38	37.20	34.44	33.62	32.74	34.14	36.28
γ 25.0	36.51	36.30	36.05	36.50	35.26	34.68	34.37	31.94	31.35	30.66	31.96	33.81
γ 26.0	34.14	33.62	33.49	33.90	32.77	32.60	32.33	30.08	29.37	28.72	29.94	31.58
γ 27.0	32.36	31.68	31.53	31.58	30.90	30.62	30.49	28.75	28.07	27.57	28.58	30.14
γ 28.0	31.42	30.02	29.79	29.96	29.26	29.27	28.95	27.43	27.07	26.66	27.67	29.25
γ 29.0	30.42	28.68	28.53	28.77	28.02	28.42	28.01	26.50	25.95	25.67	26.72	28.35
γ 30.0	29.69	27.95	27.79	27.55	27.33	27.50	27.19	26.01	25.29	24.94	26.06	27.75
γ 31.0	29.25	27.46	26.95	26.76	26.49	26.78	26.40	25.34	24.70	24.43	25.58	27.25
γ 32.0	28.34	26.56	26.00	26.09	25.53	26.30	25.90	24.50	23.74	23.48	24.80	26.40
γ 33.0	27.48	25.80	25.43	25.14	24.92	25.49	25.52	24.01	23.10	22.67	23.92	25.62
γ 34.0	26.85	25.29	24.58	24.37	24.11	24.68	24.60	23.42	22.61	22.15	23.41	25.06
γ 35.0	26.10	24.50	23.57	23.75	23.25	24.20	23.97	22.63	21.63	21.28	22.73	24.23
γ 36.0	25.05	23.65	22.98	22.82	22.64	23.47	23.63	22.15	20.92	20.53	21.72	23.31
γ 37.0	24.36	22.97	22.24	21.89	21.91	22.63	22.96	21.73	20.49	20.09	21.10	22.75
γ 38.0	23.61	22.36	21.19	21.38	21.06	22.17	22.46	20.91	19.70	19.22	20.58	21.92
γ 39.0	22.60	21.44	20.61	20.48	20.40	21.45	22.05	20.35	18.99	18.61	19.69	21.03
γ 40.0	21.82	20.69	20.00	19.67	19.97	20.71	21.50	19.99	18.62	18.24	19.06	20.53
γ 41.0	21.34	20.29	19.22	19.23	19.16	20.28	20.86	19.34	17.98	17.62	18.59	19.85
γ 42.0	20.54	19.57	18.63	18.52	18.58	19.79	20.50	18.65	17.26	16.93	17.94	18.97
γ 43.0	19.83	18.80	18.27	17.77	18.29	19.09	19.97	18.37	16.93	16.67	17.27	18.58
γ 44.0	19.40	18.45	17.52	17.41	17.67	18.80	19.40	17.78	16.44	16.15	16.92	18.12
γ 45.0	18.82	18.08	17.05	16.96	17.09	18.40	19.10	17.08	15.75	15.47	16.50	17.40
γ 46.0	18.04	17.43	16.89	16.29	16.90	17.64	18.65	16.79	15.37	15.15	15.70	16.93

IES Indoor Report

Photometric Filename:UL-12W-COB-1200-BH 10D.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	17. 57	16. 97	16. 29	16. 01	16. 42	17. 31	18. 02	16. 28	14. 99	14. 71	15. 30	16. 56
γ 48. 0	17. 14	16. 70	15. 78	15. 54	15. 82	17. 03	17. 61	15. 60	14. 24	14. 10	15. 04	15. 81
γ 49. 0	16. 45	16. 12	15. 61	14. 87	15. 57	16. 39	17. 31	15. 24	13. 92	13. 77	14. 34	15. 42
γ 50. 0	15. 86	15. 59	15. 07	14. 51	15. 17	15. 90	16. 62	14. 85	13. 55	13. 42	13. 82	15. 16
γ 51. 0	15. 65	15. 33	14. 53	14. 27	14. 55	15. 72	16. 23	14. 09	12. 92	12. 74	13. 55	14. 46
γ 52. 0	15. 10	15. 02	14. 33	13. 62	14. 29	15. 12	15. 86	13. 59	12. 41	12. 28	12. 97	13. 93
γ 53. 0	14. 36	14. 32	13. 77	13. 26	13. 87	14. 53	15. 09	12. 86	11. 52	11. 30	12. 16	13. 58
γ 54. 0	13. 15	13. 83	13. 05	12. 89	12. 97	13. 66	13. 83	11. 44	10. 43	10. 39	11. 19	12. 22
γ 55. 0	12. 49	12. 58	11. 91	11. 49	11. 65	12. 55	13. 10	10. 94	9. 89	9. 91	10. 74	11. 55
γ 56. 0	11. 80	11. 78	11. 33	10. 71	11. 25	11. 78	12. 23	10. 58	9. 66	9. 69	9. 97	11. 22
γ 57. 0	11. 21	11. 17	10. 58	10. 47	10. 50	11. 41	11. 56	9. 84	9. 12	9. 06	9. 54	10. 48
γ 58. 0	10. 82	10. 84	10. 15	9. 74	10. 07	10. 80	11. 21	9. 32	8. 53	8. 56	9. 32	9. 88
γ 59. 0	10. 19	10. 19	9. 77	9. 20	9. 72	10. 04	10. 49	9. 07	8. 34	8. 32	8. 66	9. 57
γ 60. 0	9. 54	9. 55	9. 08	8. 99	9. 03	9. 72	9. 82	8. 50	7. 92	7. 90	8. 22	9. 06
γ 61. 0	9. 31	9. 23	8. 73	8. 35	8. 53	9. 24	9. 58	8. 02	7. 43	7. 42	8. 02	8. 49
γ 62. 0	8. 95	8. 80	8. 51	7. 92	8. 33	8. 57	8. 94	7. 83	7. 26	7. 25	7. 64	8. 31
γ 63. 0	8. 25	8. 21	7. 82	7. 78	7. 76	8. 23	8. 36	7. 29	6. 92	6. 84	7. 08	7. 90
γ 64. 0	7. 93	7. 85	7. 42	7. 35	7. 29	7. 93	8. 25	6. 80	6. 35	6. 31	6. 88	7. 26
γ 65. 0	7. 58	7. 62	7. 38	6. 79	7. 09	7. 25	7. 73	6. 67	6. 07	6. 15	6. 58	7. 01
γ 66. 0	6. 95	7. 04	6. 76	6. 66	6. 65	6. 92	7. 15	6. 24	5. 86	5. 81	5. 95	6. 67
γ 67. 0	6. 49	6. 48	6. 24	6. 18	6. 00	6. 66	6. 85	5. 68	5. 31	5. 31	5. 59	6. 07
γ 68. 0	6. 20	6. 30	6. 08	5. 58	5. 86	5. 97	6. 41	5. 48	5. 06	5. 09	5. 43	5. 79
γ 69. 0	5. 76	5. 74	5. 58	5. 45	5. 43	5. 53	5. 73	5. 07	4. 88	4. 93	4. 95	5. 54
γ 70. 0	5. 11	5. 15	5. 01	5. 12	4. 84	5. 40	5. 51	4. 57	4. 26	4. 29	4. 41	4. 86
γ 71. 0	4. 89	5. 01	4. 88	4. 49	4. 63	4. 79	5. 19	4. 29	4. 07	3. 99	4. 31	4. 52
γ 72. 0	4. 59	4. 62	4. 53	4. 35	4. 30	4. 29	4. 51	4. 10	3. 89	3. 92	4. 05	4. 38
γ 73. 0	4. 03	3. 98	3. 96	4. 06	3. 78	4. 21	4. 25	3. 60	3. 47	3. 39	3. 48	3. 83
γ 74. 0	3. 67	3. 83	3. 86	3. 53	3. 56	3. 66	3. 98	3. 23	3. 14	3. 10	3. 25	3. 45
γ 75. 0	3. 59	3. 58	3. 62	3. 43	3. 44	3. 31	3. 49	3. 19	3. 11	3. 09	3. 22	3. 48
γ 76. 0	3. 20	3. 05	3. 05	3. 32	2. 98	3. 16	3. 27	2. 82	2. 74	2. 70	2. 75	3. 03
γ 77. 0	2. 72	2. 90	2. 90	2. 74	2. 68	2. 86	3. 14	2. 41	2. 40	2. 33	2. 50	2. 63
γ 78. 0	2. 70	2. 83	2. 86	2. 65	2. 77	2. 46	2. 67	2. 45	2. 42	2. 39	2. 50	2. 64
γ 79. 0	2. 49	2. 40	2. 41	2. 61	2. 37	2. 45	2. 37	2. 09	2. 14	2. 19	2. 31	2. 34
γ 80. 0	2. 12	2. 18	2. 24	2. 23	2. 07	2. 24	2. 44	1. 83	1. 79	1. 85	1. 94	1. 98
γ 81. 0	1. 93	2. 18	2. 23	2. 07	2. 11	1. 87	2. 11	1. 91	1. 82	1. 70	1. 96	2. 00
γ 82. 0	1. 96	1. 82	1. 91	2. 11	1. 87	1. 83	1. 74	1. 72	1. 71	1. 75	1. 76	1. 86
γ 83. 0	1. 70	1. 50	1. 70	1. 71	1. 57	1. 75	1. 86	1. 41	1. 35	1. 37	1. 53	1. 46
γ 84. 0	1. 29	1. 62	1. 77	1. 53	1. 63	1. 34	1. 66	1. 45	1. 40	1. 25	1. 27	1. 46
γ 85. 0	1. 42	1. 41	1. 48	1. 60	1. 47	1. 35	1. 29	1. 31	1. 41	1. 37	1. 51	1. 38
γ 86. 0	1. 33	1. 15	1. 19	1. 32	1. 07	1. 33	1. 36	1. 03	0. 97	1. 06	1. 26	1. 08
γ 87. 0	1. 03	1. 21	1. 34	1. 07	1. 17	1. 01	1. 20	1. 15	0. 98	0. 93	0. 86	0. 99
γ 88. 0	0. 92	1. 14	1. 14	1. 26	1. 14	0. 95	0. 90	1. 09	1. 14	1. 08	0. 97	1. 18
γ 89. 0	0. 99	0. 82	0. 85	1. 05	0. 86	1. 09	0. 96	0. 75	0. 88	0. 97	1. 02	0. 83
γ 90. 0	0. 91	0. 95	1. 00	0. 86	0. 90	0. 76	1. 04	0. 90	0. 92	0. 85	0. 85	0. 84
γ 91. 0	0. 73	1. 01	1. 03	1. 03	1. 06	0. 78	0. 82	1. 04	1. 17	0. 99	0. 77	1. 04
γ 92. 0	0. 94	0. 77	0. 81	0. 96	0. 77	1. 01	0. 91	0. 80	0. 91	1. 08	1. 09	0. 93
γ 93. 0	0. 98	0. 90	0. 93	0. 78	0. 77	0. 81	1. 01	0. 95	0. 85	0. 86	0. 99	0. 86

IES Indoor Report

Photometric Filename:UL-12W-COB-1200-BH 10D.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	0.78	1.04	1.06	1.02	1.12	0.80	0.88	1.11	1.12	0.88	0.88	1.05
γ 95.0	0.78	0.92	0.91	1.04	0.84	0.97	0.92	0.81	1.00	1.07	1.03	0.97
γ 96.0	1.07	0.93	0.90	0.78	0.78	0.86	1.10	0.91	0.87	0.95	1.11	0.79
γ 97.0	0.97	1.06	1.10	1.06	1.02	0.76	0.87	1.10	1.10	0.84	0.87	1.03
γ 98.0	0.80	0.93	0.85	1.07	0.92	1.01	0.79	0.87	1.14	1.09	0.89	1.02
γ 99.0	0.98	0.83	0.88	0.82	0.77	0.92	1.12	0.86	0.89	1.05	1.06	0.81
γ 100.0	1.06	1.08	1.13	0.98	0.97	0.72	0.96	1.13	1.03	0.83	0.92	0.93
γ 101.0	0.86	0.98	0.96	1.14	0.96	1.00	0.84	0.91	1.12	1.01	0.82	1.13
γ 102.0	0.84	0.79	0.82	0.91	0.80	1.03	1.08	0.79	0.90	1.13	1.10	0.91
γ 103.0	1.00	1.06	1.11	0.94	0.98	0.77	1.03	1.09	1.00	0.85	1.07	0.92
γ 104.0	0.94	1.02	1.08	1.13	1.06	0.95	0.86	0.92	1.21	0.86	0.82	1.18
γ 105.0	0.78	0.86	0.91	1.00	0.79	0.99	1.08	0.83	1.04	1.10	0.97	0.99
γ 106.0	0.96	1.08	1.19	0.88	0.96	0.75	1.06	1.03	0.93	0.97	1.15	0.86
γ 107.0	1.09	0.97	1.17	1.08	1.12	0.88	0.88	1.03	1.10	0.82	0.94	1.07
γ 108.0	0.86	0.84	0.92	1.00	0.84	1.02	1.07	0.82	1.05	1.07	0.92	1.00
γ 109.0	0.80	1.05	1.06	0.88	0.94	0.82	1.09	1.13	0.92	1.14	1.16	0.88
γ 110.0	1.06	1.10	1.22	1.15	1.19	0.87	0.84	1.11	1.15	0.90	1.00	1.05
γ 111.0	1.03	0.86	0.92	1.02	0.94	1.11	1.17	0.87	1.13	0.98	0.88	1.15
γ 112.0	0.82	1.03	1.03	0.85	0.95	0.82	1.21	1.05	0.96	1.17	1.12	0.92
γ 113.0	0.94	1.22	1.16	1.09	1.10	0.82	0.96	1.15	1.09	0.98	1.16	1.01
γ 114.0	1.10	0.93	1.00	1.14	0.93	1.07	1.10	0.95	1.27	0.92	0.94	1.16
γ 115.0	0.88	0.96	0.94	0.94	0.89	0.96	1.16	1.09	1.07	1.24	1.06	0.99
γ 116.0	0.87	1.10	1.23	0.98	1.12	0.82	1.00	1.22	0.97	1.16	1.23	0.98
γ 117.0	1.09	1.02	1.13	1.15	1.06	0.99	1.05	0.92	1.23	1.04	0.99	1.20
γ 118.0	1.05	0.93	0.97	0.97	0.87	1.01	1.28	1.00	1.19	0.99	1.02	1.05
γ 119.0	0.88	1.20	1.25	0.97	1.10	0.81	0.97	1.27	1.00	1.26	1.24	0.97
γ 120.0	0.95	1.10	1.18	1.27	1.15	0.95	0.98	1.02	1.16	1.06	1.11	1.21
γ 121.0	1.13	0.96	0.92	1.04	0.90	1.16	1.22	1.08	1.22	1.04	1.01	1.13
γ 122.0	0.94	1.20	1.13	0.98	1.04	0.88	1.13	1.22	0.94	1.30	1.23	1.00
γ 123.0	0.92	1.14	1.24	1.13	1.18	1.00	0.98	1.05	1.14	1.16	1.15	1.16
γ 124.0	1.18	0.96	1.01	1.18	0.96	1.19	1.17	1.04	1.27	0.98	0.97	1.25
γ 125.0	1.17	1.13	1.08	0.98	1.09	0.99	1.14	1.23	1.12	1.10	1.14	1.00
γ 126.0	0.90	1.20	1.32	1.07	1.23	0.99	1.00	1.19	1.09	1.29	1.22	1.19
γ 127.0	1.03	1.02	1.14	1.24	0.94	1.18	1.22	1.03	1.33	1.16	1.03	1.35
γ 128.0	1.22	1.16	1.00	0.98	1.02	1.10	1.20	1.29	1.18	1.06	1.09	1.07
γ 129.0	1.12	1.27	1.24	1.04	1.18	0.89	1.03	1.31	1.13	1.30	1.34	1.10
γ 130.0	1.01	1.00	1.19	1.16	1.07	1.15	1.21	1.08	1.31	1.31	1.06	1.35
γ 131.0	1.24	1.15	1.07	1.20	0.95	1.15	1.32	1.27	1.38	1.11	1.11	1.21
γ 132.0	1.22	1.36	1.29	0.98	1.20	0.91	1.11	1.28	1.17	1.24	1.38	1.21
γ 133.0	1.01	1.14	1.29	1.22	1.14	1.12	1.21	1.18	1.31	1.56	1.26	1.49
γ 134.0	1.18	1.08	1.09	1.27	0.99	1.24	1.42	1.41	1.55	1.30	1.24	1.36
γ 135.0	1.25	1.35	1.19	1.05	1.30	1.03	1.28	1.52	1.39	1.33	1.51	1.26
γ 136.0	1.05	1.18	1.42	1.24	1.22	1.09	1.40	1.37	1.43	1.56	1.51	1.53
γ 137.0	1.05	1.12	1.18	1.32	1.05	1.31	1.59	1.57	1.73	1.61	1.38	1.51
γ 138.0	1.32	1.42	1.19	1.18	1.33	1.15	1.43	1.78	1.73	1.42	1.72	1.48
γ 139.0	1.43	1.25	1.48	1.12	1.33	1.14	1.50	1.62	1.63	1.74	1.74	1.67
γ 140.0	1.23	1.27	1.38	1.52	1.16	1.42	1.83	1.70	1.87	1.94	1.62	1.85

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	1.35	1.53	1.32	1.38	1.32	1.40	1.70	2.02	2.11	1.79	1.85	1.74
γ 142.0	1.65	1.54	1.57	1.28	1.49	1.26	1.71	1.90	1.91	1.89	2.04	1.88
γ 143.0	1.45	1.44	1.65	1.48	1.34	1.54	2.03	1.96	2.00	2.24	1.92	2.23
γ 144.0	1.61	1.66	1.47	1.68	1.50	1.67	2.05	2.32	2.41	2.22	2.12	2.05
γ 145.0	1.86	1.83	1.68	1.54	1.74	1.57	2.02	2.26	2.37	2.20	2.39	2.09
γ 146.0	1.88	1.70	1.96	1.62	1.59	1.71	2.35	2.22	2.27	2.45	2.23	2.45
γ 147.0	1.80	1.97	1.81	1.95	1.78	1.93	2.35	2.53	2.59	2.62	2.38	2.41
γ 148.0	2.08	2.08	1.83	1.88	1.98	1.78	2.36	2.55	2.74	2.48	2.68	2.32
γ 149.0	2.24	1.98	2.13	1.83	1.95	1.88	2.65	2.54	2.49	2.65	2.60	2.69
γ 150.0	2.05	2.15	2.25	2.12	1.95	2.18	2.73	2.79	2.71	2.92	2.60	2.77
γ 151.0	2.26	2.42	2.08	2.27	2.30	2.03	2.61	2.90	2.98	2.79	2.87	2.62
γ 152.0	2.46	2.21	2.28	2.10	2.16	2.01	2.92	2.78	2.93	2.78	2.88	2.85
γ 153.0	2.28	2.30	2.54	2.21	2.13	2.32	2.97	3.01	2.92	3.01	2.81	3.01
γ 154.0	2.40	2.54	2.37	2.46	2.43	2.37	2.83	3.11	3.24	3.08	3.07	2.88
γ 155.0	2.70	2.41	2.42	2.37	2.42	2.21	3.03	2.95	3.15	2.94	3.13	3.00
γ 156.0	2.63	2.51	2.68	2.29	2.27	2.46	3.21	3.20	3.08	3.08	2.95	3.27
γ 157.0	2.56	2.76	2.61	2.59	2.54	2.62	3.03	3.43	3.34	3.29	3.19	3.09
γ 158.0	2.92	2.71	2.59	2.64	2.69	2.41	3.18	3.24	3.46	3.13	3.38	3.10
γ 159.0	3.02	2.66	2.85	2.48	2.54	2.60	3.51	3.31	3.28	3.13	3.24	3.46
γ 160.0	2.87	3.06	2.95	2.61	2.82	2.90	3.30	3.61	3.37	3.43	3.41	3.40
γ 161.0	3.12	3.06	2.80	2.84	3.04	2.73	3.47	3.48	3.78	3.33	3.61	3.25
γ 162.0	3.36	3.03	2.93	2.78	2.79	2.83	3.66	3.53	3.57	3.22	3.49	3.54
γ 163.0	3.17	3.27	3.24	2.72	3.04	3.20	3.54	3.81	3.57	3.60	3.48	3.61
γ 164.0	3.43	3.43	3.16	3.08	3.30	3.07	3.62	3.73	3.85	3.68	3.79	3.48
γ 165.0	3.65	3.25	3.05	3.15	3.11	3.12	3.91	3.64	3.84	3.45	3.71	3.68
γ 166.0	3.50	3.50	3.34	2.99	3.22	3.43	3.82	3.97	3.64	3.56	3.53	3.88
γ 167.0	3.61	3.69	3.47	3.20	3.51	3.45	3.76	3.92	3.91	3.78	3.79	3.65
γ 168.0	3.83	3.51	3.28	3.40	3.42	3.27	4.07	3.72	3.87	3.56	3.80	3.71
γ 169.0	3.62	3.68	3.31	3.31	3.30	3.64	3.97	3.96	3.66	3.43	3.57	3.95
γ 170.0	3.65	3.80	3.54	3.20	3.56	3.60	3.81	4.01	3.70	3.63	3.73	3.77
γ 171.0	3.68	3.75	3.36	3.24	3.42	3.70	3.98	3.87	3.49	3.37	3.49	3.86
γ 172.0	3.62	3.75	3.53	3.22	3.57	3.61	3.74	3.87	3.45	3.36	3.53	3.68
γ 173.0	3.58	3.73	3.49	3.20	3.54	3.55	3.66	3.71	3.40	3.32	3.42	3.63
γ 174.0	3.71	3.42	3.41	3.23	3.49	3.29	3.71	3.48	3.42	3.25	3.40	3.37
γ 175.0	3.44	3.35	3.36	3.06	3.38	3.19	3.53	3.39	3.30	3.18	3.25	3.27
γ 176.0	3.18	3.34	2.98	3.22	2.99	3.26	3.37	3.36	3.01	2.83	2.87	3.24
γ 177.0	3.28	3.05	3.18	3.12	2.94	3.01	3.45	3.01	3.07	2.95	2.89	2.94
γ 178.0	3.10	2.89	3.05	2.83	2.99	2.76	3.25	3.07	3.07	2.85	2.92	2.93
γ 179.0	3.15	3.17	3.12	3.07	2.90	3.00	2.99	2.87	2.73	2.94	2.67	2.76
γ 180.0	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92