

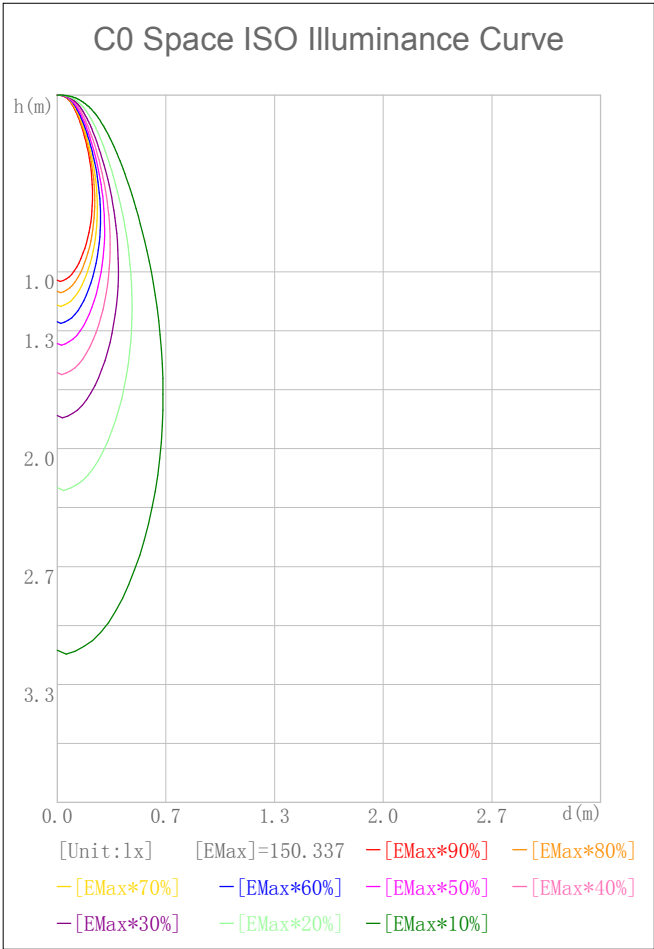
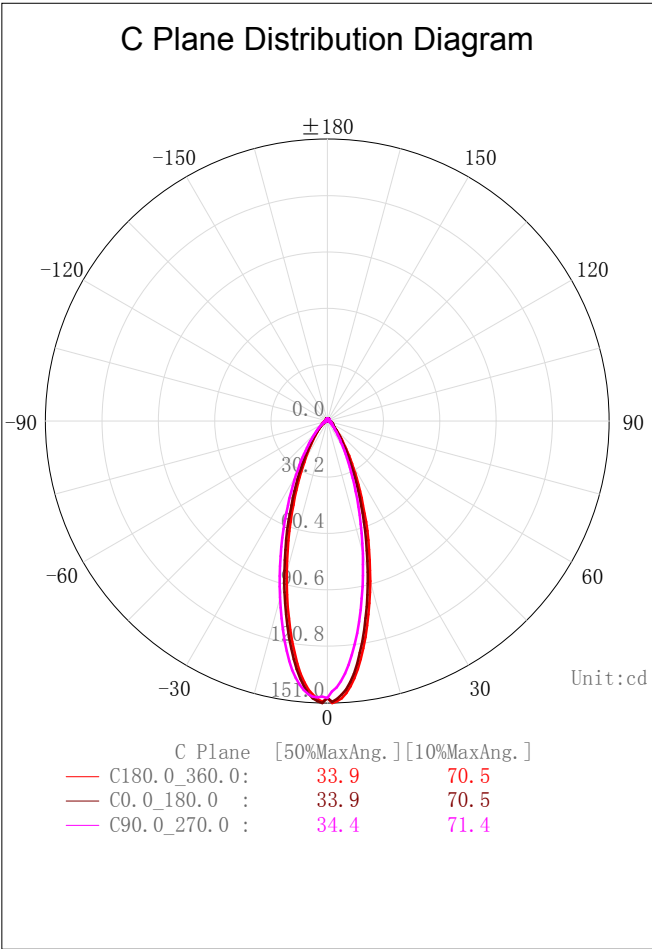
Indoor Luminaire Photometric Data

Description Information

Luminary Name: UL-1003RGB		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2016/12/06
Manufacture:		Shld. Ang(° ):	Test Machine:GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H):0.000m*0.000m*0.100m		Lum. Area (m2):0.000	Lum. W(kg): 0.200
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity(%):

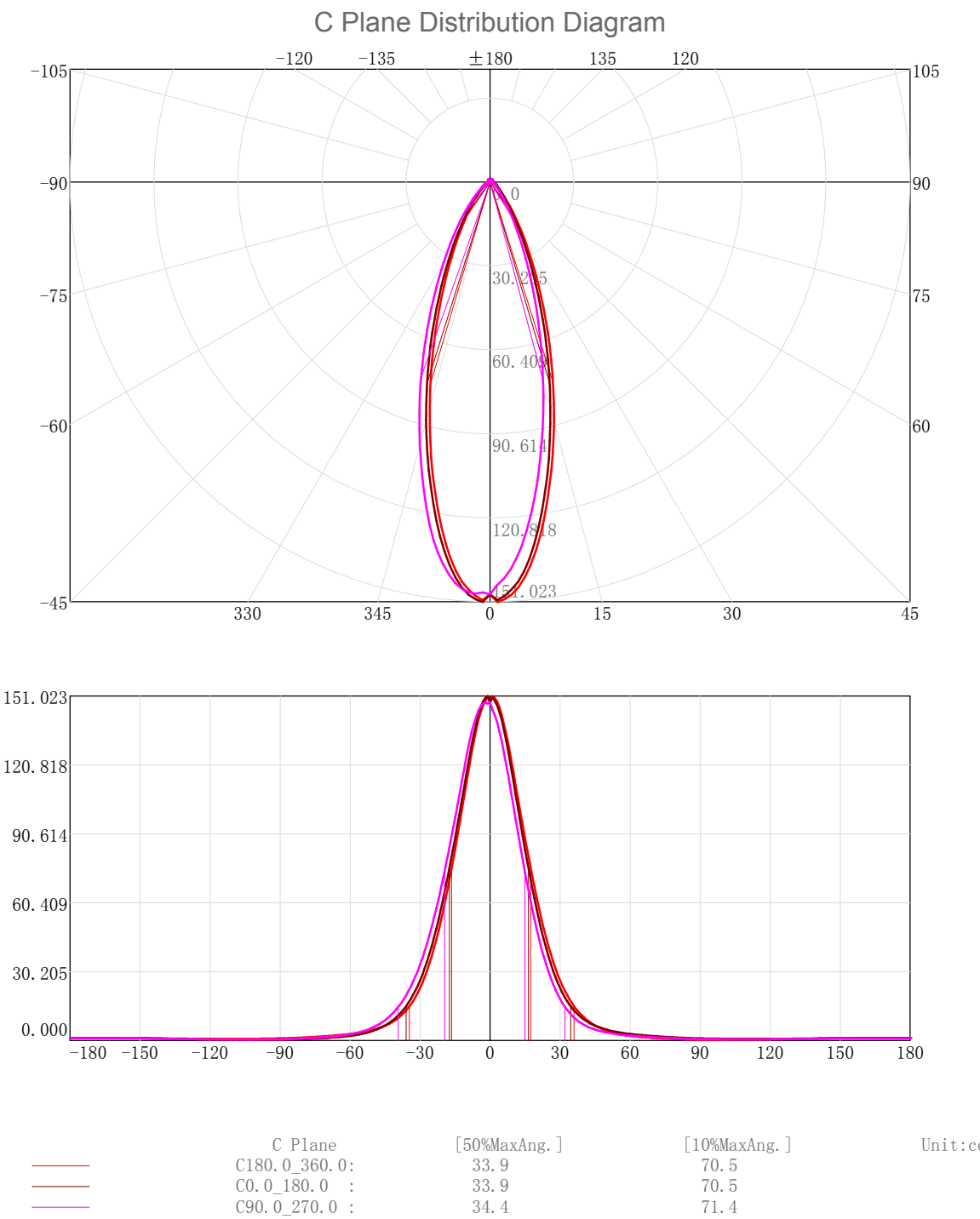
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 82.000	Luminary Flux(lm): 81.899	Field Angle(10%Imax): 70.5(° )	
Rated Power(W):	Luminary Efficiency: 99.88%	Down Lumens&Percent: 77.210lm 94.27%	
Rated Voltage(V):	Luminary EER(lm/W): 21.317	Up Lumens&Percent: 4.689lm 5.73%	
Tested Power(W): 3.842	Max. Candela(cd): 151.023	S/MH: C0_a180=0.558 C90_270=0.556	
Lamps' Inside: 1	Max Cand@Ang. (° ): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf):24.0, 0.160	Beam Angle(50%Imax): 33.9(° )	ErP Φ use(90° ): 67.508lm	
Lamp Size (W*L*H):0.000m*0.000m*0.100m	Left=-16.5° ,Right=17.4°	IRF(%): 457.003	



2D Plane Light Intensity Distribution Curve

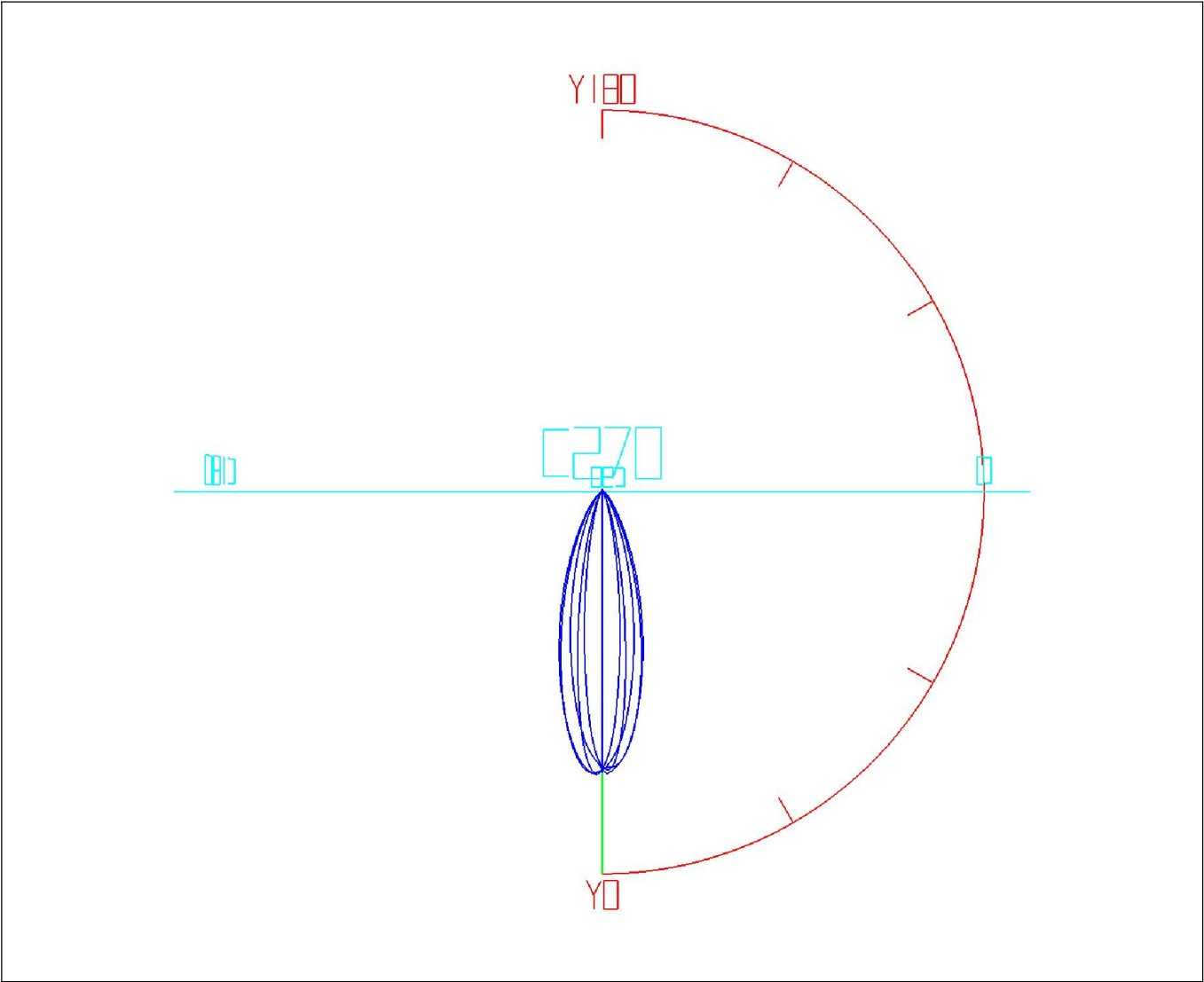
Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06



3D Light Intensity Distribution Modal

Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

IES Indoor Report

Photometric Filename:UL-1003RGB.IES

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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	0.14	0.14	0.17	0.17	47.0-48.0	0.45	69.03	0.55	84.18
1.0-2.0	0.42	0.56	0.51	0.69	48.0-49.0	0.43	69.46	0.52	84.70
2.0-3.0	0.70	1.26	0.85	1.54	49.0-50.0	0.41	69.86	0.50	85.20
3.0-4.0	0.96	2.22	1.17	2.71	50.0-51.0	0.38	70.25	0.47	85.67
4.0-5.0	1.21	3.43	1.47	4.18	51.0-52.0	0.36	70.61	0.44	86.11
5.0-6.0	1.44	4.86	1.75	5.93	52.0-53.0	0.34	70.95	0.42	86.53
6.0-7.0	1.64	6.51	2.00	7.94	53.0-54.0	0.33	71.28	0.40	86.93
7.0-8.0	1.82	8.33	2.23	10.16	54.0-55.0	0.31	71.59	0.38	87.31
8.0-9.0	1.98	10.31	2.42	12.58	55.0-56.0	0.30	71.89	0.36	87.67
9.0-10.0	2.11	12.43	2.58	15.15	56.0-57.0	0.28	72.17	0.34	88.01
10.0-11.0	2.22	14.65	2.71	17.86	57.0-58.0	0.27	72.44	0.33	88.34
11.0-12.0	2.30	16.95	2.81	20.67	58.0-59.0	0.26	72.69	0.31	88.65
12.0-13.0	2.36	19.31	2.88	23.55	59.0-60.0	0.25	72.94	0.30	88.95
13.0-14.0	2.40	21.72	2.93	26.48	60.0-61.0	0.24	73.17	0.29	89.24
14.0-15.0	2.42	24.14	2.96	29.44	61.0-62.0	0.23	73.40	0.28	89.51
15.0-16.0	2.42	26.56	2.96	32.40	62.0-63.0	0.22	73.62	0.27	89.78
16.0-17.0	2.41	28.97	2.94	35.33	63.0-64.0	0.21	73.83	0.26	90.03
17.0-18.0	2.38	31.35	2.90	38.23	64.0-65.0	0.20	74.03	0.25	90.28
18.0-19.0	2.34	33.69	2.85	41.08	65.0-66.0	0.19	74.22	0.24	90.52
19.0-20.0	2.28	35.97	2.78	43.86	66.0-67.0	0.19	74.41	0.23	90.75
20.0-21.0	2.21	38.18	2.70	46.56	67.0-68.0	0.18	74.59	0.22	90.97
21.0-22.0	2.14	40.32	2.61	49.17	68.0-69.0	0.18	74.77	0.21	91.18
22.0-23.0	2.06	42.38	2.51	51.68	69.0-70.0	0.17	74.94	0.21	91.39
23.0-24.0	1.97	44.35	2.40	54.08	70.0-71.0	0.16	75.10	0.20	91.59
24.0-25.0	1.88	46.23	2.30	56.38	71.0-72.0	0.16	75.26	0.19	91.78
25.0-26.0	1.79	48.02	2.19	58.57	72.0-73.0	0.15	75.41	0.18	91.96
26.0-27.0	1.70	49.72	2.07	60.64	73.0-74.0	0.15	75.56	0.18	92.14
27.0-28.0	1.61	51.33	1.96	62.60	74.0-75.0	0.14	75.70	0.17	92.31
28.0-29.0	1.52	52.85	1.85	64.45	75.0-76.0	0.13	75.83	0.16	92.47
29.0-30.0	1.43	54.28	1.74	66.19	76.0-77.0	0.13	75.96	0.16	92.63
30.0-31.0	1.34	55.62	1.64	67.83	77.0-78.0	0.12	76.08	0.15	92.78
31.0-32.0	1.26	56.88	1.54	69.37	78.0-79.0	0.12	76.20	0.14	92.93
32.0-33.0	1.18	58.07	1.44	70.81	79.0-80.0	0.11	76.31	0.14	93.06
33.0-34.0	1.11	59.18	1.35	72.17	80.0-81.0	0.11	76.42	0.13	93.20
34.0-35.0	1.04	60.21	1.26	73.43	81.0-82.0	0.10	76.52	0.13	93.32
35.0-36.0	0.97	61.18	1.18	74.61	82.0-83.0	0.10	76.62	0.12	93.44
36.0-37.0	0.91	62.09	1.11	75.72	83.0-84.0	0.09	76.72	0.11	93.56
37.0-38.0	0.85	62.94	1.04	76.76	84.0-85.0	0.09	76.81	0.11	93.67
38.0-39.0	0.80	63.74	0.97	77.73	85.0-86.0	0.09	76.89	0.11	93.77
39.0-40.0	0.75	64.49	0.91	78.64	86.0-87.0	0.08	76.98	0.10	93.87
40.0-41.0	0.70	65.19	0.85	79.50	87.0-88.0	0.08	77.06	0.10	93.97
41.0-42.0	0.66	65.84	0.80	80.29	88.0-89.0	0.08	77.13	0.09	94.07
42.0-43.0	0.62	66.46	0.75	81.05	89.0-90.0	0.08	77.21	0.09	94.16
43.0-44.0	0.58	67.04	0.71	81.75	90.0-91.0	0.07	77.28	0.09	94.25
44.0-45.0	0.54	67.58	0.66	82.41	91.0-92.0	0.07	77.36	0.09	94.34
45.0-46.0	0.51	68.09	0.62	83.04	92.0-93.0	0.07	77.43	0.09	94.42
46.0-47.0	0.48	68.57	0.59	83.63	93.0-94.0	0.07	77.50	0.09	94.51

IES Indoor Report

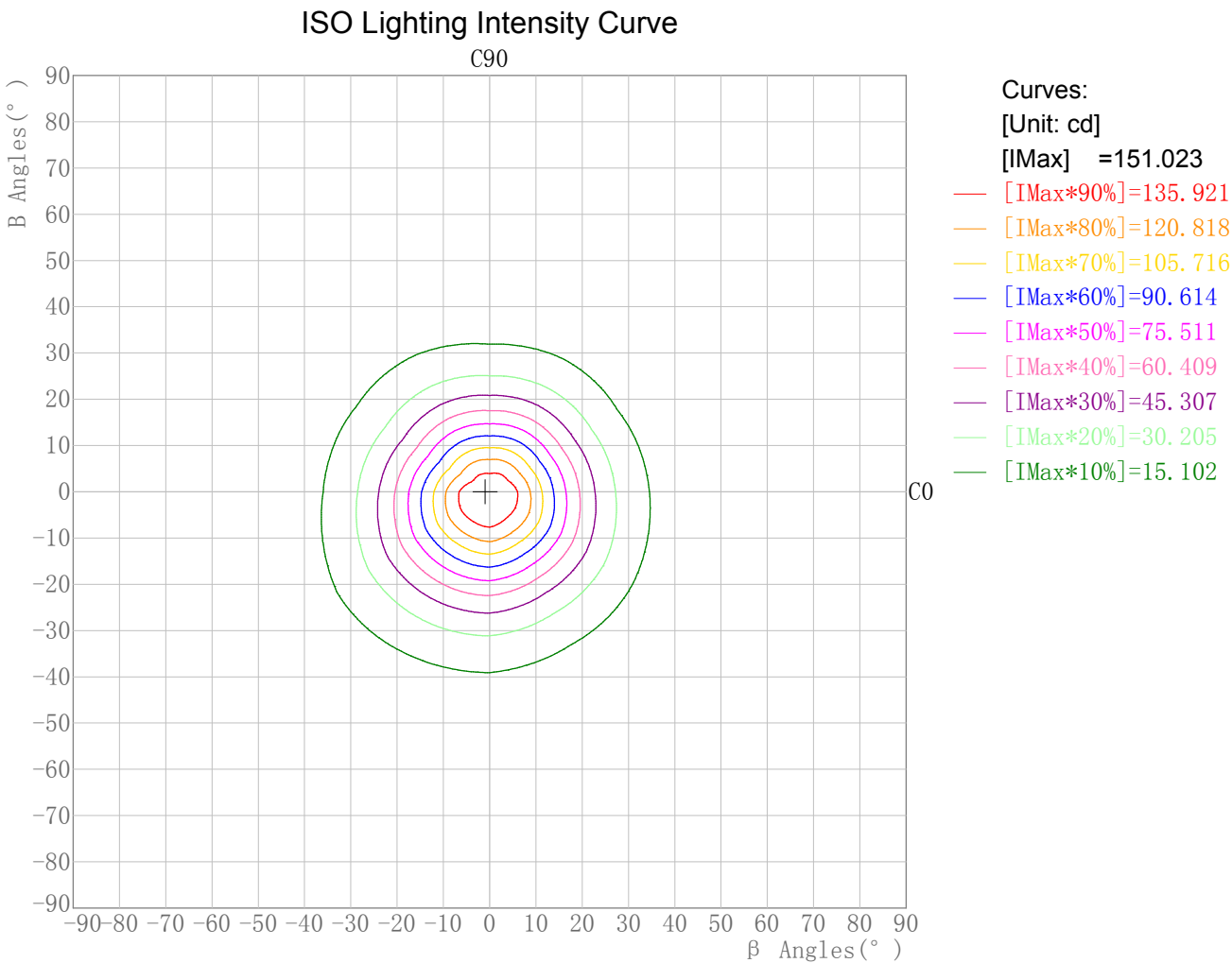
Photometric Filename:UL-1003RGB.IES

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	0.07	77.57	0.09	94.60	141.0-142.0	0.06	80.53	0.08	98.21
95.0-96.0	0.07	77.64	0.08	94.68	142.0-143.0	0.06	80.60	0.08	98.29
96.0-97.0	0.07	77.71	0.08	94.76	143.0-144.0	0.06	80.66	0.08	98.36
97.0-98.0	0.07	77.77	0.08	94.85	144.0-145.0	0.06	80.72	0.08	98.44
98.0-99.0	0.07	77.84	0.08	94.93	145.0-146.0	0.06	80.78	0.07	98.51
99.0-100.0	0.07	77.91	0.08	95.01	146.0-147.0	0.06	80.84	0.07	98.59
100.0-101.0	0.07	77.97	0.08	95.09	147.0-148.0	0.06	80.90	0.07	98.66
101.0-102.0	0.06	78.04	0.08	95.17	148.0-149.0	0.06	80.96	0.07	98.73
102.0-103.0	0.06	78.10	0.08	95.24	149.0-150.0	0.06	81.02	0.07	98.80
103.0-104.0	0.06	78.16	0.08	95.32	150.0-151.0	0.06	81.07	0.07	98.87
104.0-105.0	0.06	78.23	0.08	95.40	151.0-152.0	0.05	81.12	0.07	98.93
105.0-106.0	0.06	78.29	0.08	95.47	152.0-153.0	0.05	81.18	0.06	99.00
106.0-107.0	0.06	78.35	0.08	95.55	153.0-154.0	0.05	81.23	0.06	99.06
107.0-108.0	0.06	78.41	0.07	95.62	154.0-155.0	0.05	81.28	0.06	99.12
108.0-109.0	0.06	78.47	0.07	95.70	155.0-156.0	0.05	81.33	0.06	99.18
109.0-110.0	0.06	78.53	0.07	95.77	156.0-157.0	0.05	81.37	0.06	99.23
110.0-111.0	0.06	78.59	0.07	95.84	157.0-158.0	0.04	81.42	0.05	99.29
111.0-112.0	0.06	78.65	0.07	95.92	158.0-159.0	0.04	81.46	0.05	99.34
112.0-113.0	0.06	78.71	0.07	95.99	159.0-160.0	0.04	81.50	0.05	99.39
113.0-114.0	0.06	78.77	0.07	96.06	160.0-161.0	0.04	81.54	0.05	99.44
114.0-115.0	0.06	78.83	0.07	96.14	161.0-162.0	0.04	81.58	0.04	99.48
115.0-116.0	0.06	78.89	0.07	96.21	162.0-163.0	0.03	81.61	0.04	99.53
116.0-117.0	0.06	78.95	0.07	96.28	163.0-164.0	0.03	81.64	0.04	99.57
117.0-118.0	0.06	79.01	0.07	96.36	164.0-165.0	0.03	81.67	0.04	99.60
118.0-119.0	0.06	79.07	0.07	96.43	165.0-166.0	0.03	81.70	0.04	99.64
119.0-120.0	0.06	79.13	0.07	96.50	166.0-167.0	0.03	81.73	0.03	99.67
120.0-121.0	0.06	79.19	0.07	96.58	167.0-168.0	0.02	81.76	0.03	99.70
121.0-122.0	0.06	79.25	0.07	96.65	168.0-169.0	0.02	81.78	0.03	99.73
122.0-123.0	0.06	79.32	0.07	96.73	169.0-170.0	0.02	81.80	0.03	99.76
123.0-124.0	0.06	79.38	0.08	96.80	170.0-171.0	0.02	81.82	0.02	99.78
124.0-125.0	0.06	79.44	0.08	96.88	171.0-172.0	0.02	81.84	0.02	99.80
125.0-126.0	0.06	79.50	0.08	96.95	172.0-173.0	0.01	81.85	0.02	99.82
126.0-127.0	0.06	79.56	0.08	97.03	173.0-174.0	0.01	81.86	0.02	99.83
127.0-128.0	0.06	79.63	0.08	97.11	174.0-175.0	0.01	81.87	0.01	99.85
128.0-129.0	0.06	79.69	0.08	97.18	175.0-176.0	0.01	81.88	0.01	99.86
129.0-130.0	0.06	79.75	0.08	97.26	176.0-177.0	0.01	81.89	0.01	99.87
130.0-131.0	0.06	79.82	0.08	97.34	177.0-178.0	0.00	81.90	0.01	99.87
131.0-132.0	0.06	79.88	0.08	97.42	178.0-179.0	0.00	81.90	0.00	99.88
132.0-133.0	0.06	79.95	0.08	97.50	179.0-180.0	0.00	81.90	0.00	99.88
133.0-134.0	0.07	80.01	0.08	97.58					
134.0-135.0	0.07	80.08	0.08	97.66					
135.0-136.0	0.07	80.14	0.08	97.74					
136.0-137.0	0.07	80.21	0.08	97.82					
137.0-138.0	0.07	80.27	0.08	97.89					
138.0-139.0	0.07	80.34	0.08	97.97					
139.0-140.0	0.06	80.40	0.08	98.05					
140.0-141.0	0.06	80.47	0.08	98.13					

Rectangle ISO Lighting Intensity Diagram

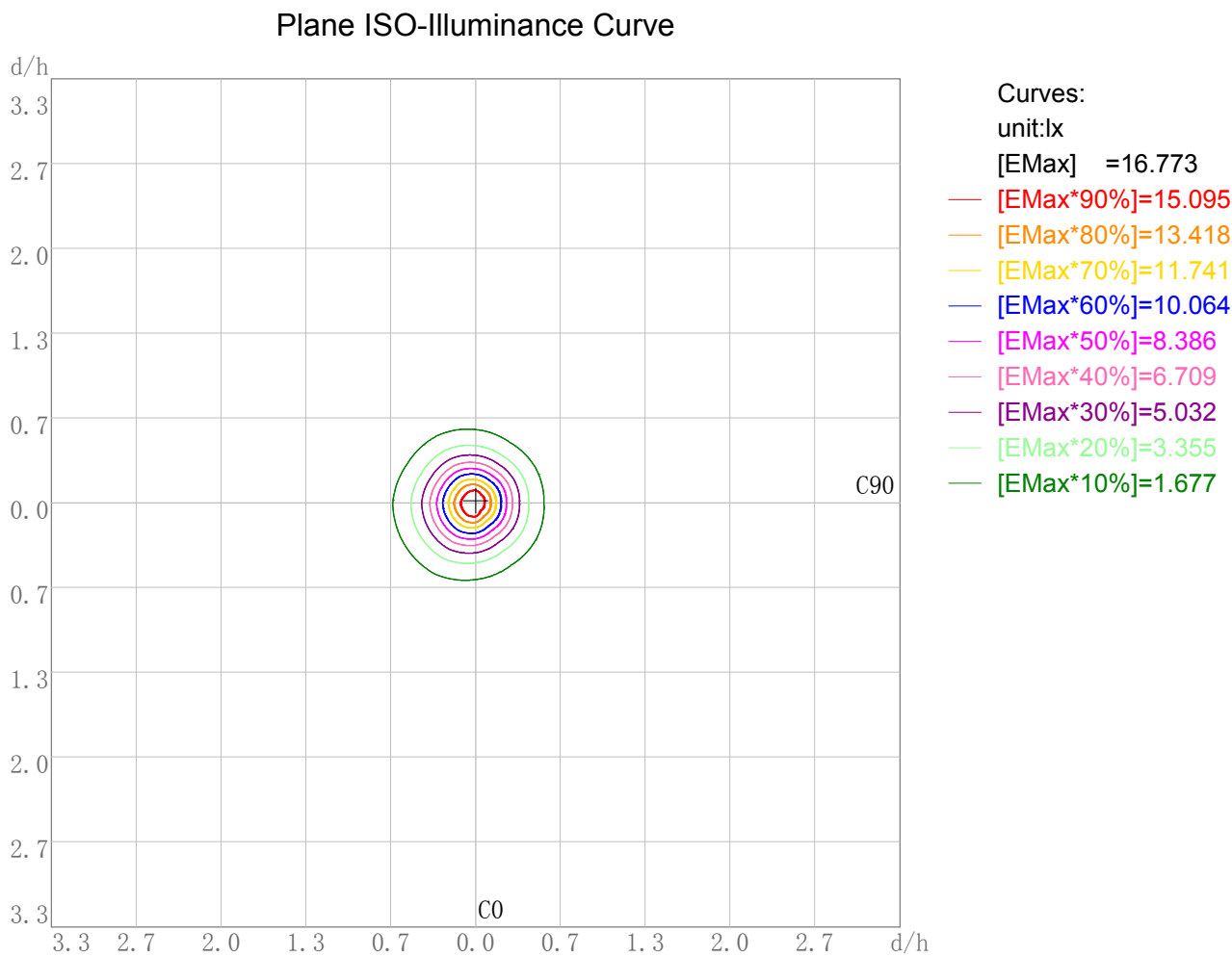
Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06



Maximum Light Intensity(cd): 151.02  
Maximum Cand.@Angle: H=-1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

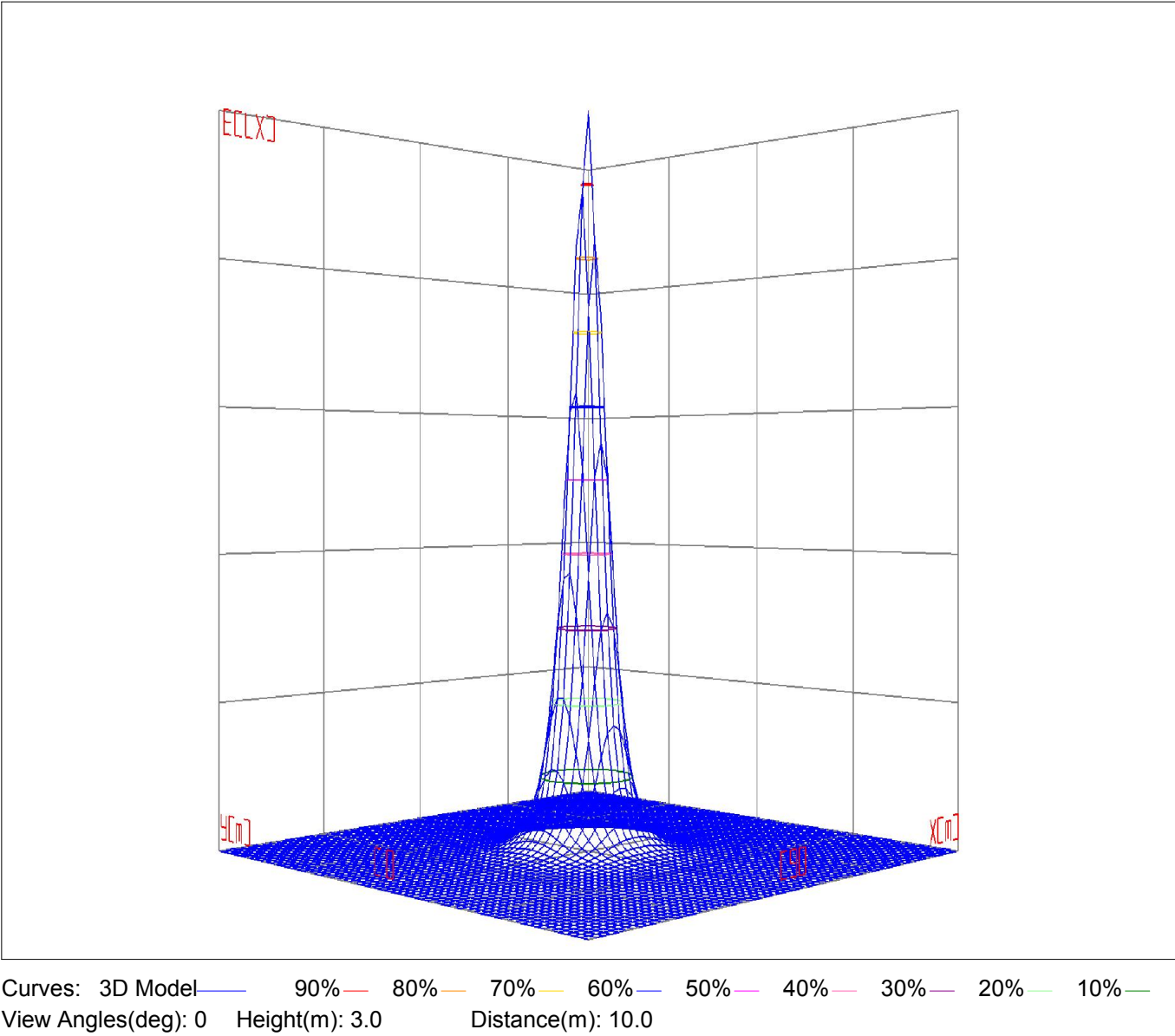


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 16.77  
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name:     UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

3D Plane Illuminance Modal

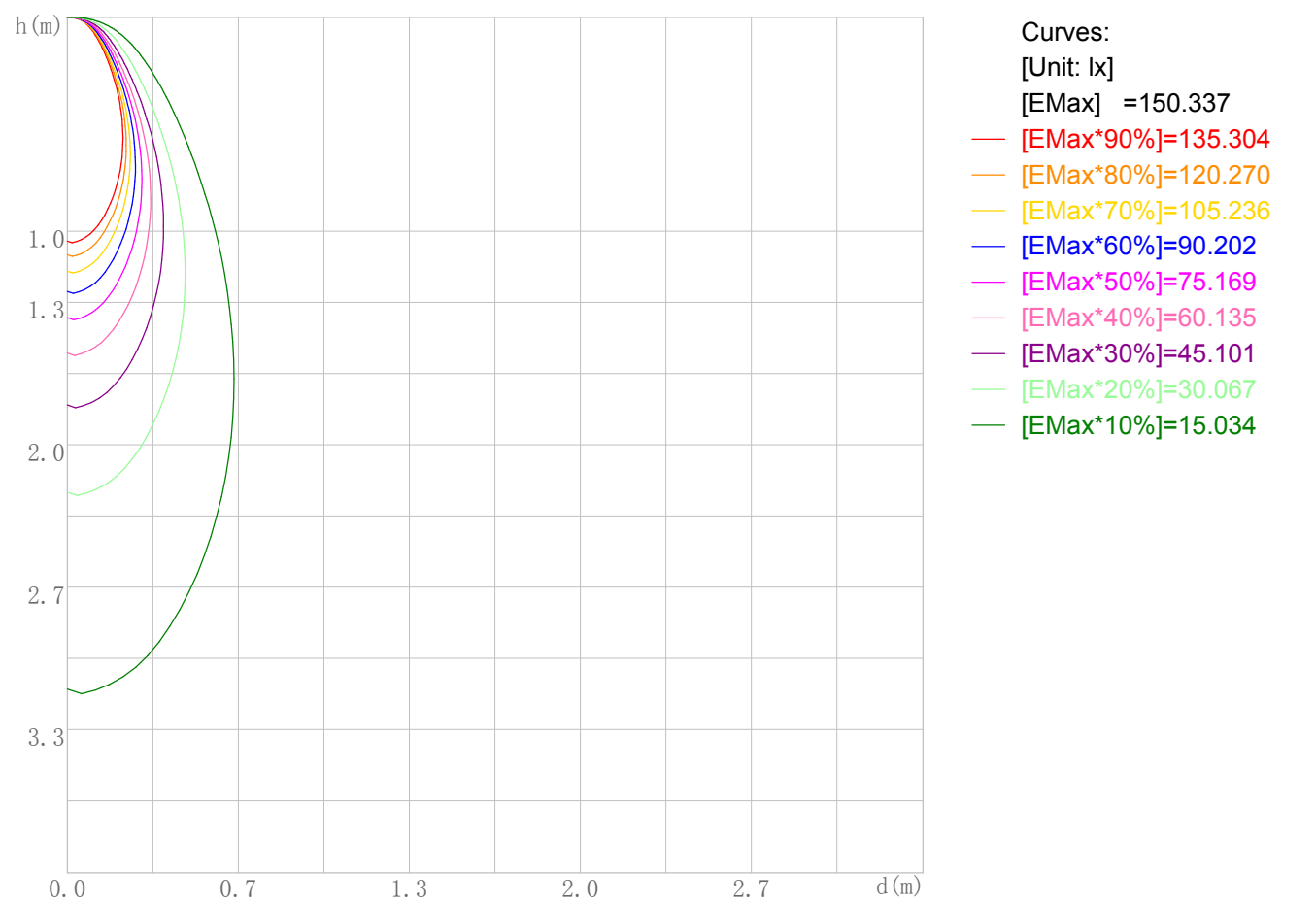




Space ISO Illuminance Diagram

Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

Space ISO Illuminance Curve

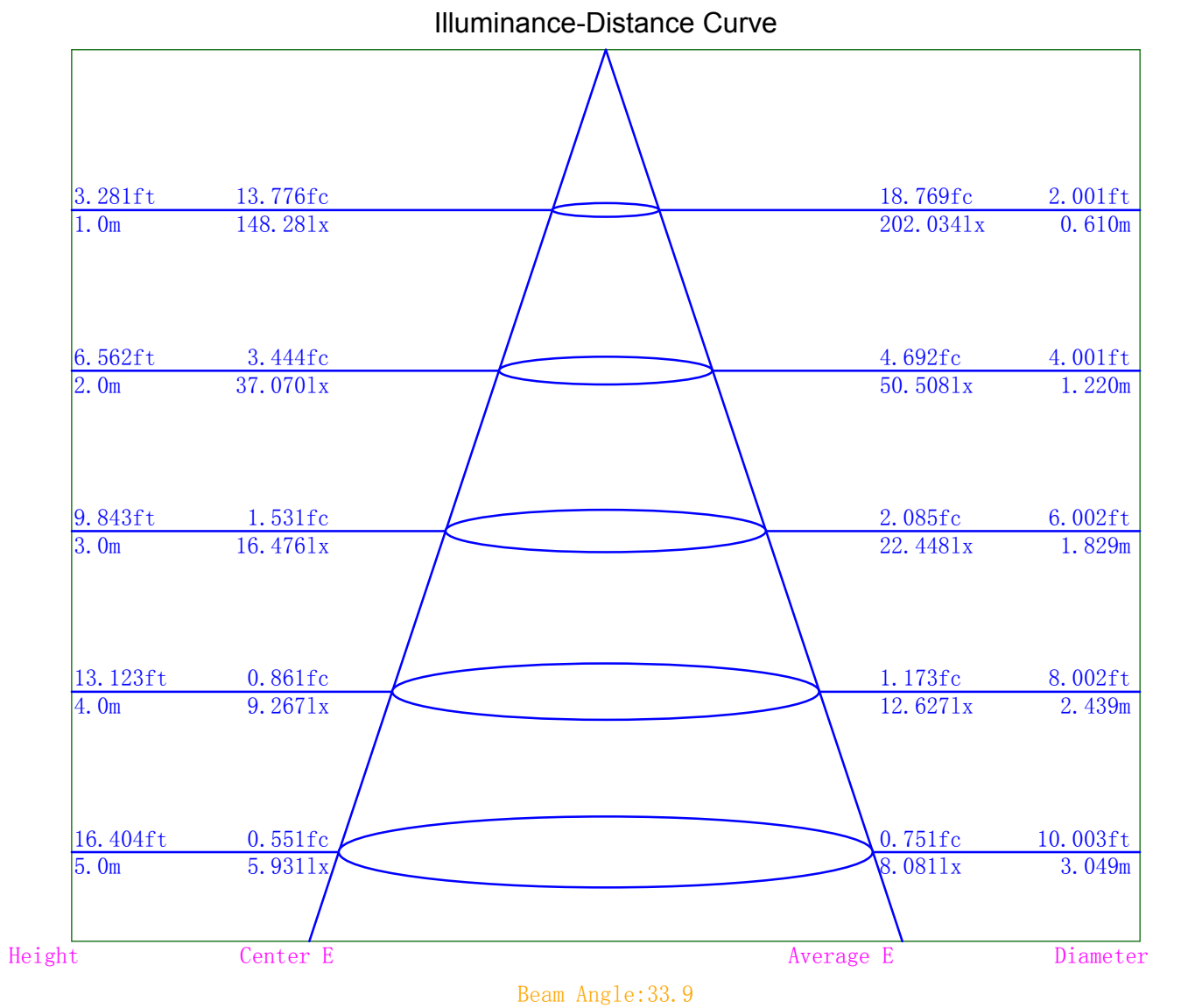


Space Plane Maximum Illuminance and @Angle:150.34lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:150.406cd,0deg

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Illuminance-Distance Diagram

Lum. Name:     UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06



Indoor Luminance Limiting Curves

Lum. Name:UL-1003RGB	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

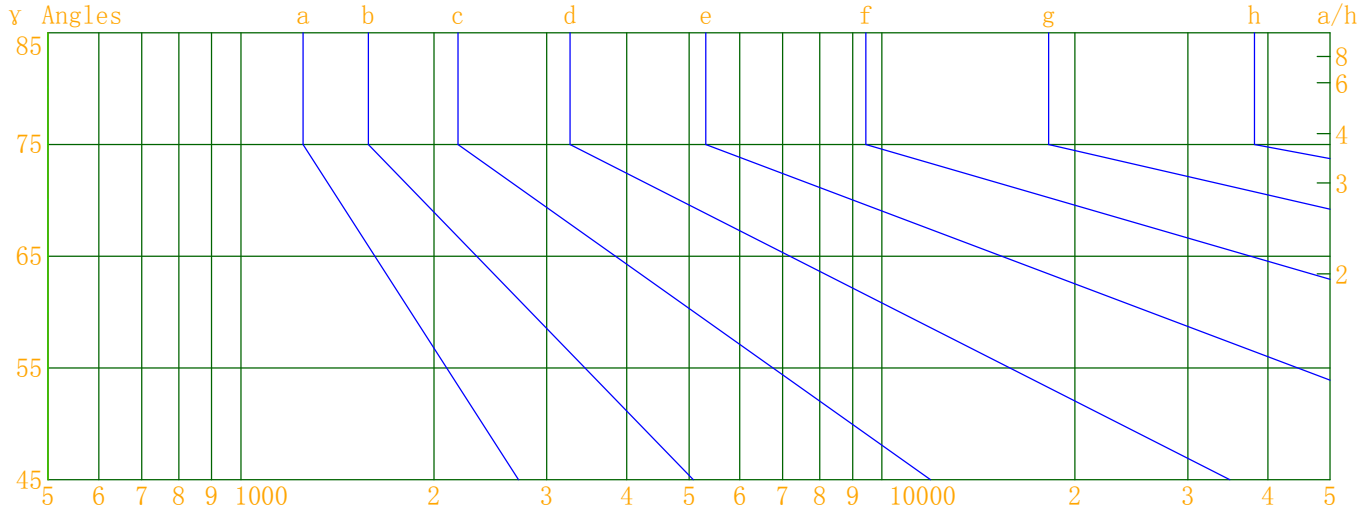
Glare Grade Table

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	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Luminance Limiting Curve



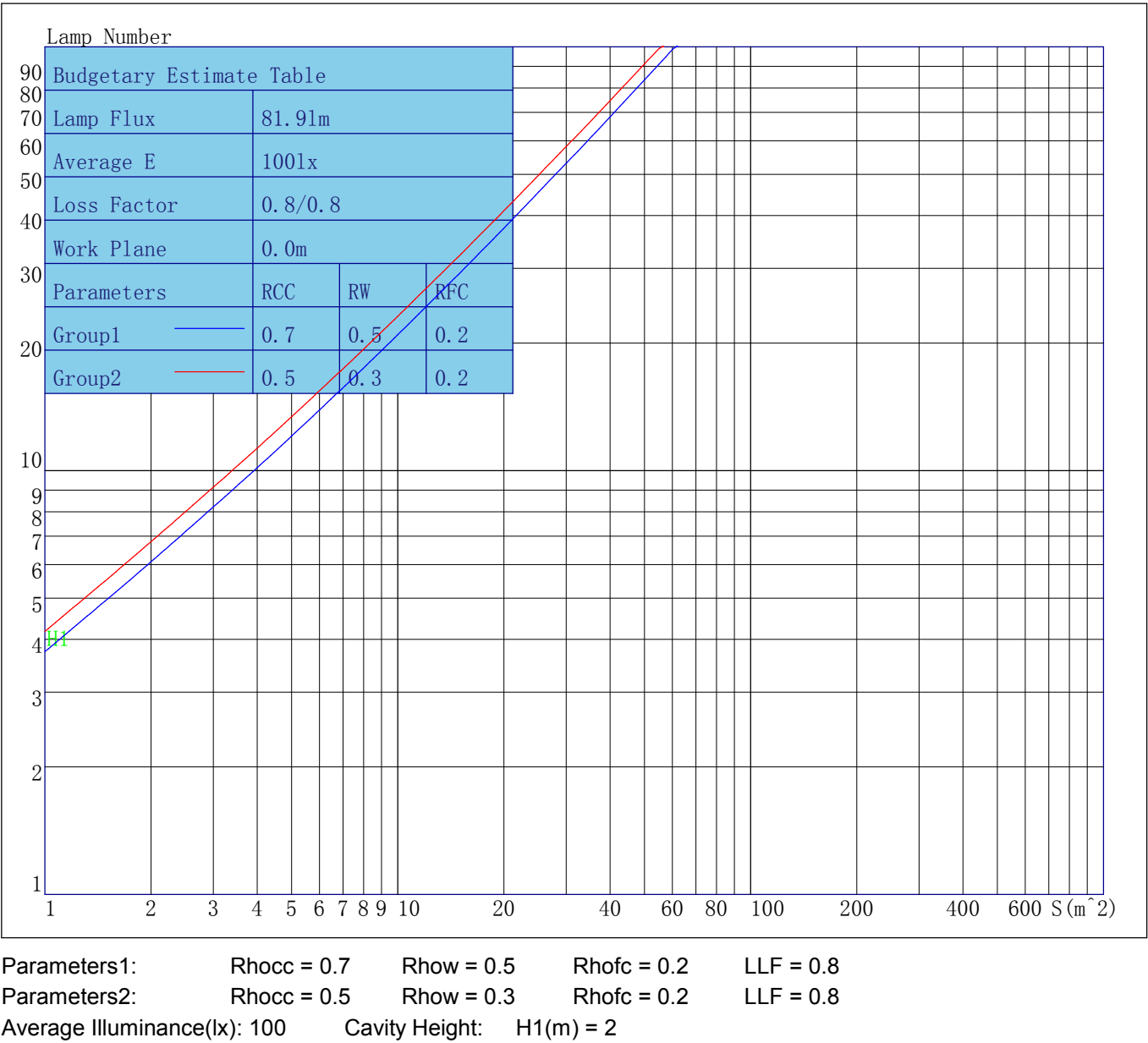
Luminous Size:Length(m)=0.000Width(m)=0.000Height(m)=0.100Area(m^2)=0.000000

Luminous Type:Without Luminous Side

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

Indoor Budgetary Estimate Table

Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06



Indoor Coefficient of Utilization Table

Lum. Name:UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	111	108	105	102	108	105	103	100	100	98	96	95	94	92	91	90	89	86
2	105	100	95	91	102	97	93	90	93	90	87	89	87	84	86	84	82	80
3	99	92	87	83	97	91	86	82	87	83	80	84	81	78	81	78	76	74
4	94	86	80	76	92	85	79	75	82	77	74	79	75	72	77	73	71	69
5	90	81	75	70	87	80	74	70	77	72	69	75	71	67	73	69	66	65
6	85	76	70	65	83	75	69	65	73	68	64	71	67	63	69	65	62	61
7	81	72	66	61	79	71	65	61	69	64	60	67	63	60	66	62	59	57
8	77	68	62	58	76	67	61	57	66	61	57	64	60	56	63	59	56	54
9	74	65	59	55	73	64	58	54	62	57	54	61	57	53	60	56	53	52
10	71	61	56	52	70	61	55	52	60	55	51	58	54	51	57	53	50	49

Unified Glare Rating Table

Lum. Name: UL-1003RGB	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2016/12/06

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	-10.0	-9.0	-9.5	-8.5	-8.1	-10.0	-9.0	-9.5	-8.5	-8.1
	Y=3H	-10.2	-9.3	-9.7	-8.8	-8.3	-10.2	-9.3	-9.7	-8.8	-8.3
	Y=4H	-10.3	-9.4	-9.8	-9.0	-8.4	-10.3	-9.4	-9.8	-9.0	-8.4
	Y=6H	-10.4	-9.6	-9.9	-9.1	-8.6	-10.4	-9.6	-9.9	-9.1	-8.6
	Y=8H	-10.4	-9.7	-9.9	-9.2	-8.6	-10.4	-9.7	-9.9	-9.2	-8.6
	Y=12H	-10.5	-9.8	-10.0	-9.3	-8.7	-10.5	-9.8	-10.0	-9.3	-8.7
X=4H	Y=2H	-10.3	-9.4	-9.8	-9.0	-8.4	-10.3	-9.4	-9.8	-9.0	-8.4
	Y=3H	-10.5	-9.8	-10.0	-9.3	-8.7	-10.5	-9.8	-10.0	-9.3	-8.7
	Y=4H	-10.6	-10.0	-10.1	-9.4	-8.8	-10.6	-10.0	-10.1	-9.4	-8.8
	Y=6H	-10.7	-10.2	-10.1	-9.6	-9.0	-10.7	-10.2	-10.1	-9.6	-9.0
	Y=8H	-10.8	-10.3	-10.2	-9.7	-9.1	-10.8	-10.3	-10.2	-9.7	-9.1
	Y=12H	-10.8	-10.4	-10.2	-9.8	-9.2	-10.8	-10.4	-10.2	-9.8	-9.2
X=8H	Y=4H	-10.8	-10.3	-10.2	-9.7	-9.1	-10.8	-10.3	-10.2	-9.7	-9.1
	Y=6H	-10.9	-10.5	-10.3	-9.9	-9.2	-10.9	-10.5	-10.3	-9.9	-9.2
	Y=8H	-10.9	-10.6	-10.3	-10.0	-9.3	-10.9	-10.6	-10.3	-10.0	-9.3
	Y=12H	-11.0	-10.7	-10.4	-10.1	-9.4	-11.0	-10.7	-10.4	-10.1	-9.4
X=12H	Y=4H	-10.8	-10.4	-10.2	-9.8	-9.2	-10.8	-10.4	-10.2	-9.8	-9.2
	Y=6H	-10.9	-10.6	-10.3	-10.0	-9.3	-10.9	-10.6	-10.3	-10.0	-9.3
	Y=8H	-11.0	-10.7	-10.4	-10.1	-9.4	-11.0	-10.7	-10.4	-10.1	-9.4
Variations with the objerver position at spacings											
S=1.0H		0.0/0.0					0.0/0.0				
S=1.5H		0.0/0.0					0.0/0.0				
S=2.0H		0.0/0.0					0.0/0.0				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		0.0					0.0				

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

IES Indoor Report

Photometric Filename:UL-1003RGB.IES

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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	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28
Y 1.0	150.41	147.13	146.30	144.96	145.39	145.02	151.02	149.21	148.37	147.66	147.17	146.70
Y 2.0	148.96	144.94	144.19	142.65	143.35	143.09	150.16	149.21	148.47	148.03	147.04	146.39
Y 3.0	146.84	142.14	141.36	139.55	140.58	140.41	148.58	148.58	147.89	147.73	146.23	145.43
Y 4.0	144.12	138.65	137.84	135.62	137.06	137.06	146.13	146.97	146.35	146.60	144.61	143.82
Y 5.0	140.49	134.56	133.58	131.17	132.93	132.99	142.71	144.43	143.93	144.60	142.09	141.19
Y 6.0	136.08	129.82	128.69	126.08	128.06	128.22	138.61	141.12	140.95	141.88	138.83	137.87
Y 7.0	130.93	124.58	123.17	120.48	122.45	122.86	133.93	137.25	137.30	138.49	135.04	133.99
Y 8.0	125.40	118.70	117.07	114.75	116.44	117.32	128.80	132.76	133.16	134.68	130.81	129.59
Y 9.0	119.57	112.68	111.13	108.78	110.61	111.55	123.28	127.99	128.47	130.21	126.02	124.57
Y 10.0	113.56	106.60	105.22	102.77	104.81	105.70	117.56	122.74	123.26	125.07	120.65	119.12
Y 11.0	107.62	100.64	99.34	96.78	99.06	99.90	111.69	117.33	117.70	119.67	115.00	113.51
Y 12.0	101.60	94.59	93.44	90.90	93.23	94.11	105.91	111.91	112.20	114.05	109.34	107.97
Y 13.0	95.59	88.61	87.65	85.04	87.48	88.43	100.17	106.48	106.78	108.50	103.68	102.28
Y 14.0	89.58	82.74	81.86	79.25	81.80	82.79	94.50	101.02	101.39	103.04	98.13	96.69
Y 15.0	83.77	76.99	76.12	73.64	76.25	77.32	88.82	95.63	96.07	97.62	92.50	91.06
Y 16.0	78.13	71.45	70.63	68.24	70.93	72.03	83.24	90.24	90.79	92.16	86.95	85.38
Y 17.0	72.65	66.11	65.40	63.05	65.81	66.93	77.77	84.93	85.52	86.84	81.42	79.85
Y 18.0	67.42	60.99	60.34	58.08	60.85	62.00	72.57	79.83	80.43	81.70	76.20	74.58
Y 19.0	62.37	56.12	55.48	53.39	56.12	57.29	67.53	74.96	75.53	76.63	71.19	69.46
Y 20.0	57.49	51.43	50.84	48.87	51.61	52.80	62.63	70.20	70.79	71.75	66.30	64.47
Y 21.0	52.81	47.00	46.47	44.56	47.34	48.53	57.90	65.53	66.17	66.99	61.55	59.71
Y 22.0	48.44	42.85	42.41	40.58	43.34	44.56	53.44	61.01	61.66	62.39	56.98	55.14
Y 23.0	44.36	39.00	38.59	36.92	39.62	40.84	49.05	56.66	57.19	57.95	52.49	50.82
Y 24.0	40.57	35.44	35.09	33.49	36.19	37.39	45.12	52.57	53.15	53.80	48.45	46.80
Y 25.0	37.04	32.15	31.81	30.36	32.98	34.19	41.45	48.69	49.31	49.86	44.67	43.05
Y 26.0	33.74	29.11	28.81	27.47	29.99	31.18	38.01	45.05	45.64	46.13	41.08	39.49
Y 27.0	30.73	26.26	26.04	24.80	27.26	28.40	34.76	41.61	42.13	42.60	37.70	36.15
Y 28.0	27.95	23.71	23.57	22.42	24.75	25.86	31.78	38.38	38.83	39.29	34.51	33.05
Y 29.0	25.41	21.41	21.32	20.25	22.51	23.55	28.87	35.27	35.61	36.14	31.43	30.12
Y 30.0	23.11	19.33	19.29	18.28	20.47	21.45	26.39	32.33	32.78	33.26	28.74	27.44
Y 31.0	20.99	17.45	17.46	16.53	18.63	19.53	24.10	29.66	30.17	30.59	26.32	24.98
Y 32.0	19.08	15.74	15.82	14.95	16.96	17.81	21.99	27.24	27.72	28.15	24.01	22.72
Y 33.0	17.35	14.22	14.34	13.52	15.45	16.20	20.04	25.01	25.40	25.85	21.93	20.55
Y 34.0	15.83	12.90	13.04	12.26	14.11	14.77	18.24	22.92	23.27	23.69	19.95	18.67
Y 35.0	14.47	11.72	11.89	11.13	12.90	13.49	16.55	21.01	21.18	21.67	18.08	16.97
Y 36.0	13.24	10.69	10.88	10.13	11.79	12.31	15.08	19.27	19.42	19.78	16.49	15.47
Y 37.0	12.16	9.78	9.95	9.23	10.81	11.28	13.78	17.66	17.83	18.17	15.06	14.07
Y 38.0	11.16	8.98	9.15	8.41	9.93	10.35	12.56	16.21	16.31	16.64	13.72	12.83
Y 39.0	10.28	8.25	8.45	7.70	9.14	9.50	11.47	14.86	14.90	15.25	12.49	11.74
Y 40.0	9.49	7.60	7.81	7.08	8.45	8.74	10.46	13.63	13.62	13.96	11.36	10.73
Y 41.0	8.78	7.03	7.26	6.51	7.83	8.07	9.48	12.51	12.37	12.76	10.28	9.82
Y 42.0	8.15	6.52	6.75	6.02	7.27	7.46	8.67	11.50	11.30	11.67	9.40	9.01
Y 43.0	7.57	6.05	6.29	5.59	6.77	6.91	7.96	10.57	10.36	10.69	8.65	8.27
Y 44.0	7.08	5.63	5.88	5.20	6.30	6.40	7.30	9.73	9.46	9.79	7.91	7.59
Y 45.0	6.62	5.24	5.50	4.87	5.89	5.93	6.68	8.97	8.65	8.97	7.25	6.97
Y 46.0	6.20	4.90	5.17	4.55	5.52	5.53	6.12	8.26	7.91	8.24	6.62	6.44

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**IES Indoor Report**  
**Photometric Filename:UL-1003RGB.IES**

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

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# IES Indoor Report

## Photometric Filename:UL-1003RGB.IES

### Candela Tabulation - (Cont.)

V/H	C0. 0	C30. 0	C60. 0	C90. 0	C120. 0	C150. 0	C180. 0	C210. 0	C240. 0	C270. 0	C300. 0	C330. 0
Y 94. 0	0.97	0.71	0.90	0.70	0.91	0.72	0.41	0.57	0.35	0.57	0.35	0.57
Y 95. 0	0.95	0.70	0.89	0.69	0.89	0.71	0.41	0.56	0.35	0.55	0.36	0.56
Y 96. 0	0.94	0.70	0.88	0.68	0.88	0.69	0.41	0.56	0.35	0.57	0.35	0.56
Y 97. 0	0.93	0.69	0.87	0.67	0.87	0.69	0.40	0.56	0.35	0.56	0.35	0.55
Y 98. 0	0.92	0.68	0.86	0.67	0.86	0.68	0.41	0.55	0.34	0.56	0.36	0.55
Y 99. 0	0.89	0.66	0.85	0.66	0.84	0.66	0.41	0.55	0.34	0.55	0.36	0.54
Y 100. 0	0.89	0.66	0.83	0.64	0.84	0.66	0.41	0.54	0.35	0.55	0.36	0.55
Y 101. 0	0.88	0.65	0.83	0.64	0.82	0.65	0.42	0.54	0.36	0.54	0.36	0.54
Y 102. 0	0.87	0.65	0.81	0.64	0.82	0.65	0.42	0.53	0.36	0.53	0.36	0.53
Y 103. 0	0.85	0.64	0.81	0.63	0.81	0.64	0.43	0.53	0.37	0.54	0.36	0.53
Y 104. 0	0.86	0.63	0.80	0.62	0.80	0.64	0.43	0.53	0.37	0.53	0.36	0.53
Y 105. 0	0.84	0.63	0.79	0.62	0.79	0.62	0.44	0.52	0.38	0.54	0.36	0.53
Y 106. 0	0.82	0.62	0.79	0.62	0.79	0.62	0.44	0.52	0.37	0.53	0.37	0.53
Y 107. 0	0.83	0.62	0.78	0.62	0.78	0.61	0.45	0.53	0.37	0.54	0.38	0.53
Y 108. 0	0.82	0.63	0.78	0.62	0.77	0.62	0.46	0.53	0.37	0.53	0.37	0.53
Y 109. 0	0.82	0.62	0.77	0.62	0.77	0.62	0.45	0.53	0.37	0.53	0.38	0.53
Y 110. 0	0.80	0.63	0.77	0.61	0.76	0.61	0.46	0.54	0.38	0.54	0.38	0.54
Y 111. 0	0.81	0.62	0.76	0.62	0.77	0.61	0.47	0.54	0.39	0.54	0.39	0.54
Y 112. 0	0.80	0.62	0.76	0.62	0.76	0.61	0.48	0.55	0.40	0.54	0.39	0.55
Y 113. 0	0.80	0.63	0.76	0.62	0.75	0.62	0.49	0.55	0.41	0.55	0.40	0.56
Y 114. 0	0.80	0.62	0.76	0.62	0.76	0.63	0.50	0.56	0.41	0.55	0.41	0.57
Y 115. 0	0.79	0.64	0.76	0.63	0.75	0.62	0.51	0.57	0.42	0.55	0.42	0.58
Y 116. 0	0.79	0.63	0.76	0.63	0.76	0.62	0.52	0.58	0.43	0.55	0.42	0.58
Y 117. 0	0.80	0.64	0.76	0.64	0.76	0.63	0.54	0.58	0.43	0.57	0.44	0.58
Y 118. 0	0.80	0.64	0.77	0.64	0.76	0.63	0.54	0.59	0.45	0.57	0.45	0.60
Y 119. 0	0.80	0.65	0.77	0.66	0.76	0.63	0.56	0.59	0.47	0.58	0.46	0.60
Y 120. 0	0.81	0.65	0.79	0.66	0.77	0.65	0.57	0.61	0.48	0.60	0.47	0.62
Y 121. 0	0.81	0.67	0.79	0.66	0.78	0.66	0.59	0.61	0.49	0.60	0.48	0.63
Y 122. 0	0.82	0.68	0.80	0.68	0.79	0.67	0.61	0.63	0.50	0.61	0.49	0.63
Y 123. 0	0.82	0.69	0.81	0.69	0.80	0.68	0.61	0.64	0.51	0.62	0.51	0.65
Y 124. 0	0.84	0.70	0.81	0.69	0.80	0.69	0.63	0.65	0.53	0.63	0.52	0.67
Y 125. 0	0.84	0.71	0.83	0.70	0.82	0.69	0.65	0.67	0.54	0.64	0.54	0.68
Y 126. 0	0.84	0.72	0.83	0.71	0.83	0.71	0.67	0.68	0.56	0.67	0.56	0.70
Y 127. 0	0.86	0.73	0.84	0.73	0.83	0.71	0.69	0.71	0.57	0.68	0.56	0.70
Y 128. 0	0.87	0.74	0.84	0.74	0.84	0.73	0.71	0.71	0.59	0.69	0.59	0.73
Y 129. 0	0.88	0.76	0.86	0.75	0.87	0.74	0.73	0.73	0.61	0.71	0.61	0.75
Y 130. 0	0.90	0.77	0.87	0.76	0.86	0.75	0.75	0.74	0.62	0.72	0.63	0.75
Y 131. 0	0.90	0.79	0.88	0.78	0.88	0.77	0.77	0.76	0.64	0.73	0.65	0.78
Y 132. 0	0.92	0.81	0.89	0.79	0.89	0.78	0.79	0.77	0.66	0.75	0.67	0.79
Y 133. 0	0.94	0.83	0.91	0.81	0.91	0.79	0.81	0.79	0.68	0.77	0.68	0.80
Y 134. 0	0.95	0.83	0.91	0.82	0.92	0.81	0.83	0.80	0.70	0.80	0.70	0.82
Y 135. 0	0.96	0.85	0.92	0.84	0.93	0.82	0.85	0.82	0.72	0.81	0.73	0.83
Y 136. 0	0.97	0.87	0.93	0.84	0.95	0.84	0.87	0.84	0.73	0.83	0.74	0.86
Y 137. 0	0.98	0.88	0.94	0.86	0.96	0.85	0.89	0.85	0.75	0.85	0.75	0.88
Y 138. 0	0.99	0.89	0.97	0.87	0.97	0.87	0.90	0.88	0.78	0.86	0.78	0.89
Y 139. 0	1.01	0.90	0.98	0.89	0.99	0.87	0.92	0.89	0.79	0.88	0.79	0.91
Y 140. 0	1.01	0.93	0.99	0.90	0.99	0.89	0.94	0.91	0.81	0.89	0.81	0.93

**IES Indoor Report**  
**Photometric Filename:UL-1003RGB.IES**

### Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 141.0	1.03	0.94	1.00	0.92	1.00	0.90	0.96	0.93	0.83	0.90	0.82	0.94
Y 142.0	1.05	0.95	1.01	0.92	1.01	0.91	0.97	0.94	0.84	0.92	0.84	0.95
Y 143.0	1.05	0.96	1.01	0.94	1.02	0.93	0.99	0.96	0.86	0.94	0.86	0.96
Y 144.0	1.06	0.97	1.03	0.94	1.04	0.94	1.00	0.97	0.87	0.95	0.87	0.98
Y 145.0	1.07	0.98	1.04	0.96	1.05	0.96	1.01	0.98	0.88	0.96	0.88	0.99
Y 146.0	1.08	0.99	1.04	0.96	1.05	0.96	1.03	1.00	0.89	0.97	0.90	1.00
Y 147.0	1.08	1.00	1.04	0.97	1.05	0.98	1.04	1.00	0.90	0.98	0.91	1.02
Y 148.0	1.09	1.00	1.05	0.98	1.06	0.99	1.06	1.02	0.93	1.00	0.93	1.02
Y 149.0	1.09	1.01	1.06	0.99	1.06	0.99	1.07	1.03	0.93	1.00	0.94	1.03
Y 150.0	1.10	1.02	1.07	0.99	1.07	1.00	1.08	1.04	0.95	1.01	0.94	1.04
Y 151.0	1.10	1.02	1.06	0.99	1.07	1.01	1.08	1.05	0.95	1.02	0.96	1.04
Y 152.0	1.11	1.03	1.06	1.00	1.08	1.01	1.11	1.05	0.96	1.03	0.97	1.04
Y 153.0	1.11	1.03	1.07	1.00	1.07	1.01	1.11	1.07	0.96	1.03	0.97	1.06
Y 154.0	1.11	1.04	1.07	1.01	1.09	1.02	1.11	1.07	0.98	1.04	0.98	1.06
Y 155.0	1.12	1.05	1.07	1.01	1.08	1.01	1.12	1.07	0.99	1.04	0.99	1.06
Y 156.0	1.11	1.05	1.08	1.00	1.07	1.02	1.13	1.08	1.00	1.05	1.00	1.07
Y 157.0	1.11	1.05	1.07	1.00	1.08	1.02	1.14	1.08	1.00	1.05	1.01	1.06
Y 158.0	1.11	1.03	1.07	1.00	1.08	1.03	1.13	1.09	1.00	1.05	1.00	1.07
Y 159.0	1.12	1.04	1.06	1.01	1.09	1.03	1.14	1.09	1.01	1.06	1.02	1.07
Y 160.0	1.11	1.04	1.06	1.01	1.09	1.04	1.14	1.09	1.02	1.06	1.02	1.07
Y 161.0	1.11	1.03	1.06	1.01	1.08	1.03	1.15	1.09	1.01	1.06	1.01	1.07
Y 162.0	1.10	1.03	1.06	1.01	1.08	1.03	1.15	1.08	1.01	1.07	1.02	1.08
Y 163.0	1.11	1.03	1.06	1.01	1.08	1.03	1.15	1.09	1.02	1.07	1.02	1.08
Y 164.0	1.10	1.02	1.06	1.01	1.08	1.03	1.15	1.09	1.02	1.07	1.02	1.08
Y 165.0	1.10	1.03	1.05	1.01	1.07	1.03	1.14	1.09	1.02	1.07	1.01	1.07
Y 166.0	1.10	1.03	1.05	1.01	1.05	1.02	1.16	1.09	1.02	1.07	1.01	1.07
Y 167.0	1.09	1.02	1.05	1.00	1.05	1.02	1.14	1.08	1.02	1.07	1.01	1.07
Y 168.0	1.10	1.02	1.05	1.00	1.06	1.02	1.15	1.08	1.02	1.07	1.01	1.07
Y 169.0	1.09	1.01	1.04	1.00	1.06	1.01	1.14	1.08	1.02	1.07	1.00	1.07
Y 170.0	1.09	1.01	1.04	1.01	1.05	1.01	1.14	1.07	1.02	1.07	1.02	1.06
Y 171.0	1.08	1.02	1.04	1.00	1.06	1.00	1.14	1.07	1.02	1.06	1.01	1.05
Y 172.0	1.07	1.01	1.03	1.00	1.05	1.01	1.14	1.06	1.02	1.07	1.01	1.05