

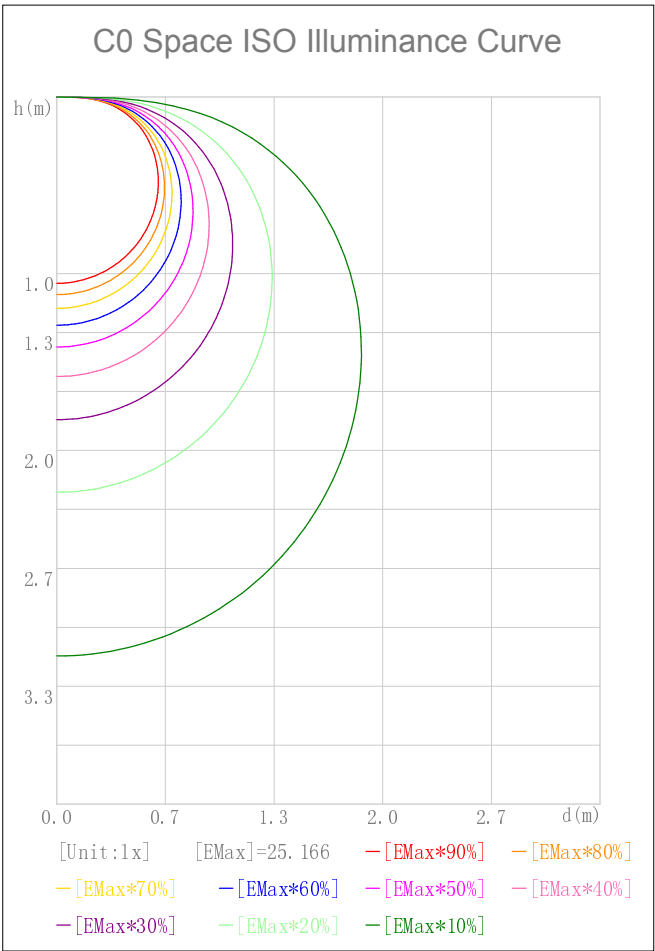
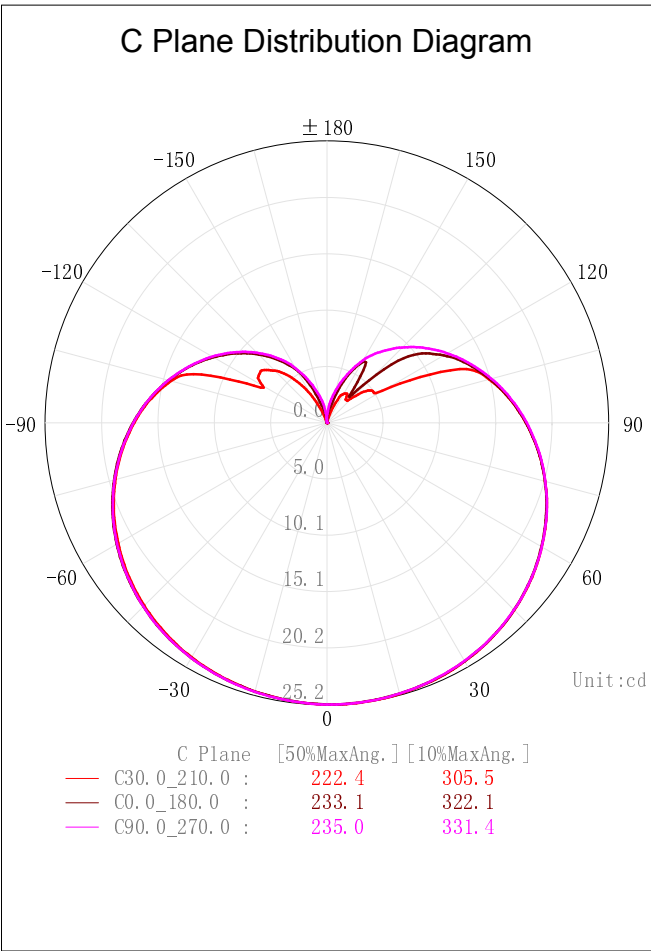
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Date: 2021/03/01
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):	Lamp CCT(K): 3000 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(%):

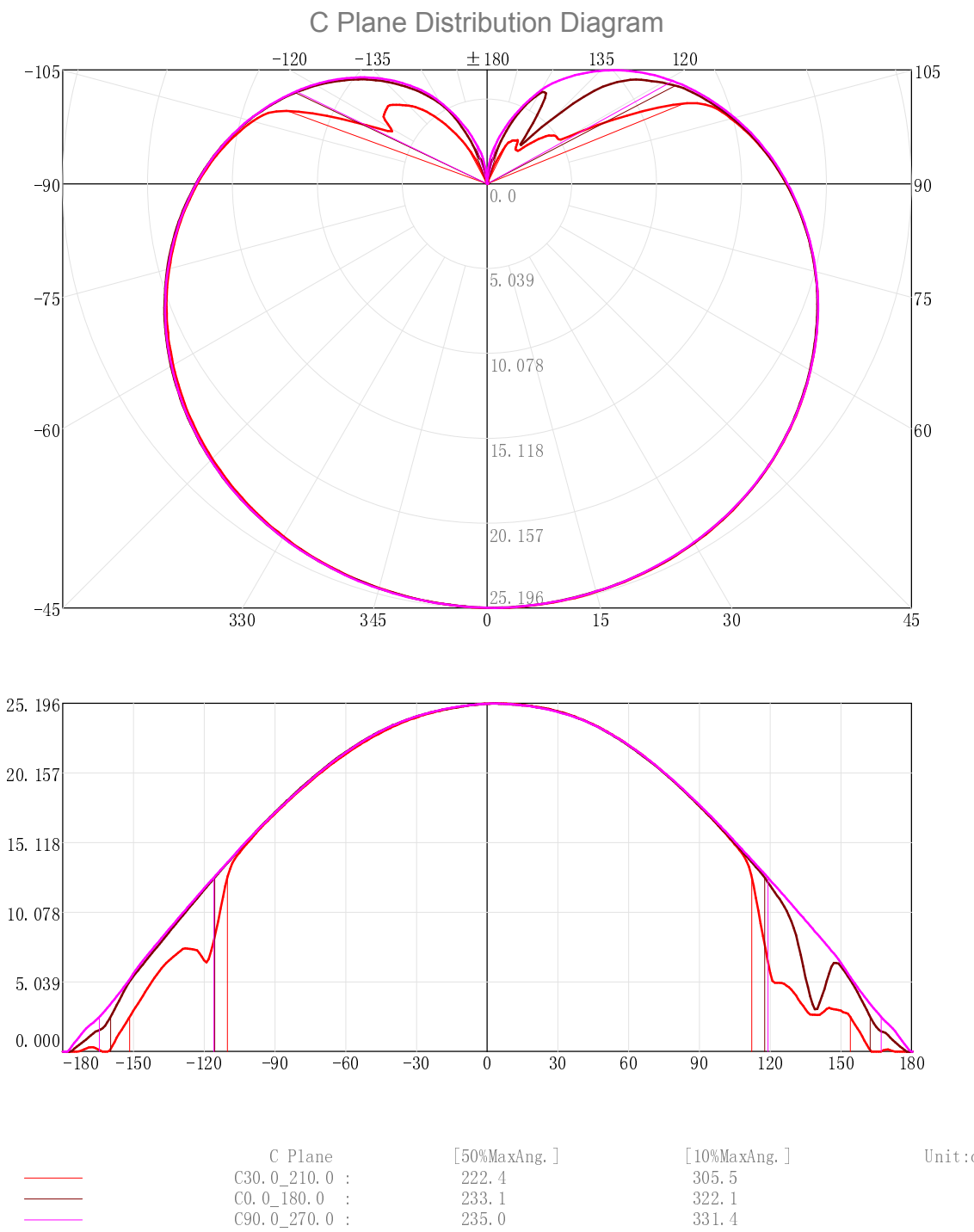
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 204.730	Luminary Flux(lm): 204.734	Field Angle(10%Imax): 305.5(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 136.473lm 66.66%
Rated Voltage(V): 24	Luminary EER(lm/W): 98.715	Up Lumens&Percent: 68.262lm 33.34%
Tested Power(W): 2.074	Max. Candela(cd): 25.196	S/MH: C0_a180=1.470 C90_270=1.470
Lamps' Inside: 1	Max Cand@Ang. (°): C=30.0 γ=3.0	CIE Type: General Diffuse
Tested Electrics(V, A, pf):24.0, 0.086	Beam Angle(50%Imax): 222.4(°)	ErP Φ use(120°): 74.238lm
Lamp Size(W*L*H):0.050m*-0.050m*0.000m	Left=-110.1°, Right=112.2°	IRF(%): 83.306



2D Plane Light Intensity Distribution Curve

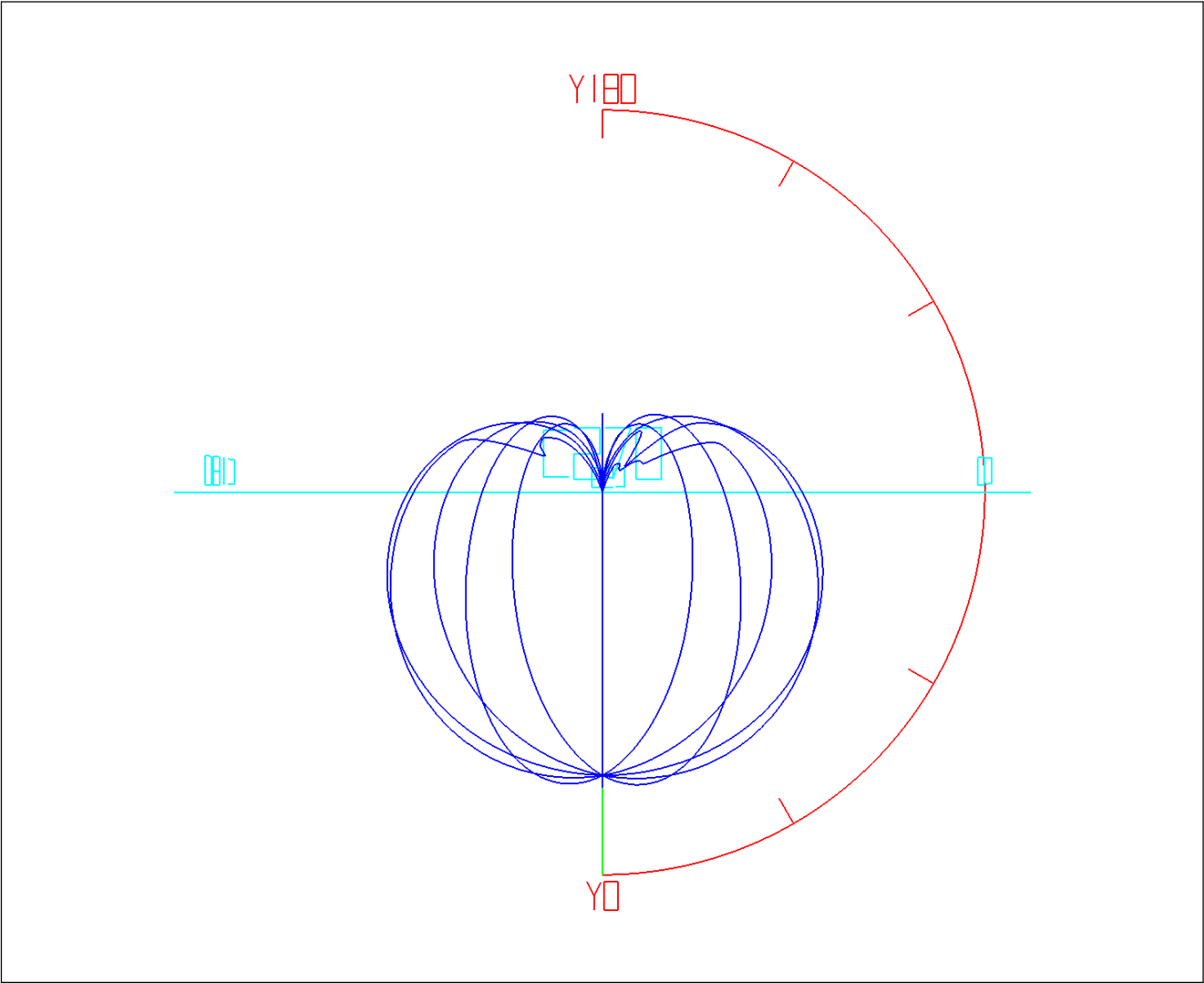
Lum. Name:55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2021/03/01



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: 2021/03/01

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

Spin:0

Zonal Flux Tabulation

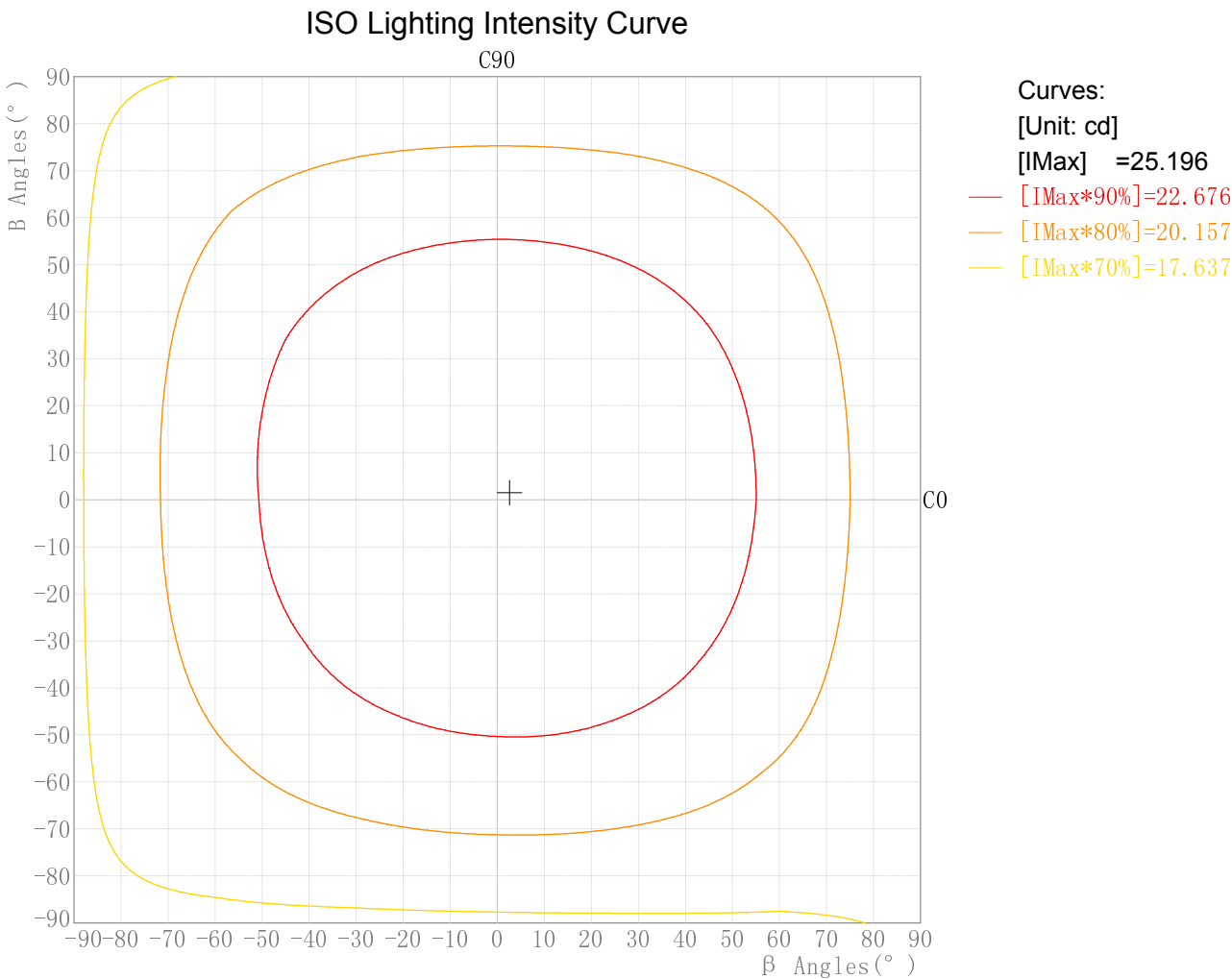
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.02	0.02	0.01	0.01	47.0-48.0	1.88	50.31	0.92	24.58
1.0-2.0	0.07	0.10	0.04	0.05	48.0-49.0	1.90	52.21	0.93	25.50
2.0-3.0	0.12	0.22	0.06	0.11	49.0-50.0	1.92	54.13	0.94	26.44
3.0-4.0	0.17	0.39	0.08	0.19	50.0-51.0	1.94	56.07	0.95	27.39
4.0-5.0	0.22	0.60	0.11	0.29	51.0-52.0	1.96	58.03	0.96	28.34
5.0-6.0	0.26	0.87	0.13	0.42	52.0-53.0	1.98	60.01	0.97	29.31
6.0-7.0	0.31	1.18	0.15	0.57	53.0-54.0	1.99	62.00	0.97	30.28
7.0-8.0	0.36	1.54	0.18	0.75	54.0-55.0	2.01	64.01	0.98	31.27
8.0-9.0	0.41	1.94	0.20	0.95	55.0-56.0	2.02	66.04	0.99	32.25
9.0-10.0	0.45	2.40	0.22	1.17	56.0-57.0	2.04	68.07	1.00	33.25
10.0-11.0	0.50	2.90	0.24	1.42	57.0-58.0	2.05	70.13	1.00	34.25
11.0-12.0	0.55	3.44	0.27	1.68	58.0-59.0	2.06	72.19	1.01	35.26
12.0-13.0	0.59	4.04	0.29	1.97	59.0-60.0	2.07	74.27	1.01	36.27
13.0-14.0	0.64	4.68	0.31	2.29	60.0-61.0	2.08	76.35	1.02	37.29
14.0-15.0	0.69	5.36	0.33	2.62	61.0-62.0	2.09	78.44	1.02	38.32
15.0-16.0	0.73	6.10	0.36	2.98	62.0-63.0	2.10	80.54	1.03	39.34
16.0-17.0	0.78	6.87	0.38	3.36	63.0-64.0	2.11	82.65	1.03	40.37
17.0-18.0	0.82	7.69	0.40	3.76	64.0-65.0	2.11	84.77	1.03	41.40
18.0-19.0	0.87	8.56	0.42	4.18	65.0-66.0	2.12	86.88	1.03	42.44
19.0-20.0	0.91	9.47	0.44	4.62	66.0-67.0	2.12	89.01	1.04	43.47
20.0-21.0	0.95	10.42	0.47	5.09	67.0-68.0	2.12	91.13	1.04	44.51
21.0-22.0	1.00	11.41	0.49	5.58	68.0-69.0	2.13	93.25	1.04	45.55
22.0-23.0	1.04	12.45	0.51	6.08	69.0-70.0	2.13	95.38	1.04	46.59
23.0-24.0	1.08	13.53	0.53	6.61	70.0-71.0	2.13	97.51	1.04	47.63
24.0-25.0	1.12	14.65	0.55	7.16	71.0-72.0	2.12	99.63	1.04	48.66
25.0-26.0	1.16	15.82	0.57	7.73	72.0-73.0	2.12	101.75	1.04	49.70
26.0-27.0	1.20	17.02	0.59	8.31	73.0-74.0	2.12	103.87	1.03	50.73
27.0-28.0	1.24	18.26	0.61	8.92	74.0-75.0	2.11	105.98	1.03	51.77
28.0-29.0	1.28	19.54	0.63	9.55	75.0-76.0	2.11	108.09	1.03	52.79
29.0-30.0	1.32	20.86	0.64	10.19	76.0-77.0	2.10	110.19	1.03	53.82
30.0-31.0	1.36	22.22	0.66	10.85	77.0-78.0	2.09	112.28	1.02	54.84
31.0-32.0	1.39	23.61	0.68	11.53	78.0-79.0	2.08	114.36	1.02	55.86
32.0-33.0	1.43	25.05	0.70	12.23	79.0-80.0	2.07	116.44	1.01	56.87
33.0-34.0	1.47	26.51	0.72	12.95	80.0-81.0	2.06	118.50	1.01	57.88
34.0-35.0	1.50	28.01	0.73	13.68	81.0-82.0	2.05	120.55	1.00	58.88
35.0-36.0	1.54	29.55	0.75	14.43	82.0-83.0	2.04	122.59	1.00	59.88
36.0-37.0	1.57	31.12	0.77	15.20	83.0-84.0	2.03	124.62	0.99	60.87
37.0-38.0	1.60	32.72	0.78	15.98	84.0-85.0	2.01	126.64	0.98	61.86
38.0-39.0	1.63	34.35	0.80	16.78	85.0-86.0	2.00	128.64	0.98	62.83
39.0-40.0	1.66	36.01	0.81	17.59	86.0-87.0	1.98	130.62	0.97	63.80
40.0-41.0	1.69	37.71	0.83	18.42	87.0-88.0	1.97	132.59	0.96	64.76
41.0-42.0	1.72	39.43	0.84	19.26	88.0-89.0	1.95	134.54	0.95	65.72
42.0-43.0	1.75	41.18	0.85	20.11	89.0-90.0	1.93	136.47	0.94	66.66
43.0-44.0	1.78	42.96	0.87	20.98	90.0-91.0	1.92	138.39	0.94	67.60
44.0-45.0	1.80	44.76	0.88	21.86	91.0-92.0	1.90	140.28	0.93	68.52
45.0-46.0	1.83	46.59	0.89	22.76	92.0-93.0	1.88	142.16	0.92	69.44
46.0-47.0	1.85	48.44	0.90	23.66	93.0-94.0	1.86	144.02	0.91	70.34

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	1.84	145.85	0.90	71.24	141.0-142.0	0.46	199.09	0.22	97.25
95.0-96.0	1.81	147.67	0.89	72.13	142.0-143.0	0.44	199.53	0.21	97.46
96.0-97.0	1.79	149.46	0.87	73.00	143.0-144.0	0.42	199.95	0.21	97.67
97.0-98.0	1.77	151.23	0.86	73.87	144.0-145.0	0.40	200.36	0.20	97.87
98.0-99.0	1.74	152.97	0.85	74.72	145.0-146.0	0.39	200.75	0.19	98.05
99.0-100.0	1.72	154.69	0.84	75.56	146.0-147.0	0.37	201.11	0.18	98.23
100.0-101.0	1.70	156.39	0.83	76.39	147.0-148.0	0.35	201.46	0.17	98.40
101.0-102.0	1.67	158.06	0.82	77.20	148.0-149.0	0.33	201.79	0.16	98.56
102.0-103.0	1.64	159.70	0.80	78.00	149.0-150.0	0.31	202.09	0.15	98.71
103.0-104.0	1.62	161.32	0.79	78.79	150.0-151.0	0.29	202.38	0.14	98.85
104.0-105.0	1.59	162.91	0.78	79.57	151.0-152.0	0.26	202.64	0.13	98.98
105.0-106.0	1.56	164.47	0.76	80.33	152.0-153.0	0.24	202.89	0.12	99.10
106.0-107.0	1.53	166.00	0.75	81.08	153.0-154.0	0.22	203.11	0.11	99.21
107.0-108.0	1.51	167.51	0.74	81.82	154.0-155.0	0.21	203.32	0.10	99.31
108.0-109.0	1.48	168.98	0.72	82.54	155.0-156.0	0.19	203.50	0.09	99.40
109.0-110.0	1.44	170.43	0.71	83.25	156.0-157.0	0.17	203.67	0.08	99.48
110.0-111.0	1.41	171.84	0.69	83.93	157.0-158.0	0.15	203.82	0.07	99.56
111.0-112.0	1.37	173.21	0.67	84.60	158.0-159.0	0.13	203.95	0.06	99.62
112.0-113.0	1.33	174.55	0.65	85.26	159.0-160.0	0.12	204.07	0.06	99.68
113.0-114.0	1.29	175.84	0.63	85.89	160.0-161.0	0.10	204.17	0.05	99.73
114.0-115.0	1.25	177.09	0.61	86.50	161.0-162.0	0.09	204.26	0.04	99.77
115.0-116.0	1.21	178.31	0.59	87.09	162.0-163.0	0.08	204.34	0.04	99.81
116.0-117.0	1.17	179.48	0.57	87.67	163.0-164.0	0.07	204.40	0.03	99.84
117.0-118.0	1.14	180.62	0.55	88.22	164.0-165.0	0.06	204.46	0.03	99.87
118.0-119.0	1.10	181.72	0.54	88.76	165.0-166.0	0.05	204.51	0.03	99.89
119.0-120.0	1.06	182.78	0.52	89.28	166.0-167.0	0.04	204.56	0.02	99.92
120.0-121.0	1.03	183.82	0.51	89.79	167.0-168.0	0.04	204.60	0.02	99.93
121.0-122.0	1.01	184.82	0.49	90.28	168.0-169.0	0.03	204.63	0.02	99.95
122.0-123.0	0.98	185.80	0.48	90.76	169.0-170.0	0.03	204.66	0.01	99.96
123.0-124.0	0.96	186.76	0.47	91.22	170.0-171.0	0.02	204.68	0.01	99.98
124.0-125.0	0.93	187.69	0.45	91.68	171.0-172.0	0.02	204.70	0.01	99.98
125.0-126.0	0.90	188.59	0.44	92.12	172.0-173.0	0.01	204.71	0.01	99.99
126.0-127.0	0.88	189.47	0.43	92.55	173.0-174.0	0.01	204.72	0.00	100.00
127.0-128.0	0.85	190.31	0.41	92.96	174.0-175.0	0.01	204.73	0.00	100.00
128.0-129.0	0.82	191.13	0.40	93.36	175.0-176.0	0.00	204.73	0.00	100.00
129.0-130.0	0.79	191.92	0.39	93.74	176.0-177.0	0.00	204.73	0.00	100.00
130.0-131.0	0.76	192.68	0.37	94.12	177.0-178.0	0.00	204.73	0.00	100.00
131.0-132.0	0.73	193.41	0.36	94.47	178.0-179.0	0.00	204.73	0.00	100.00
132.0-133.0	0.70	194.11	0.34	94.81	179.0-180.0	0.00	204.73	0.00	100.00
133.0-134.0	0.67	194.77	0.33	95.14					
134.0-135.0	0.63	195.41	0.31	95.45					
135.0-136.0	0.60	196.01	0.30	95.74					
136.0-137.0	0.58	196.59	0.28	96.02					
137.0-138.0	0.55	197.14	0.27	96.29					
138.0-139.0	0.52	197.66	0.25	96.55					
139.0-140.0	0.50	198.16	0.24	96.79					
140.0-141.0	0.48	198.63	0.23	97.02					

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: 2021/03/01

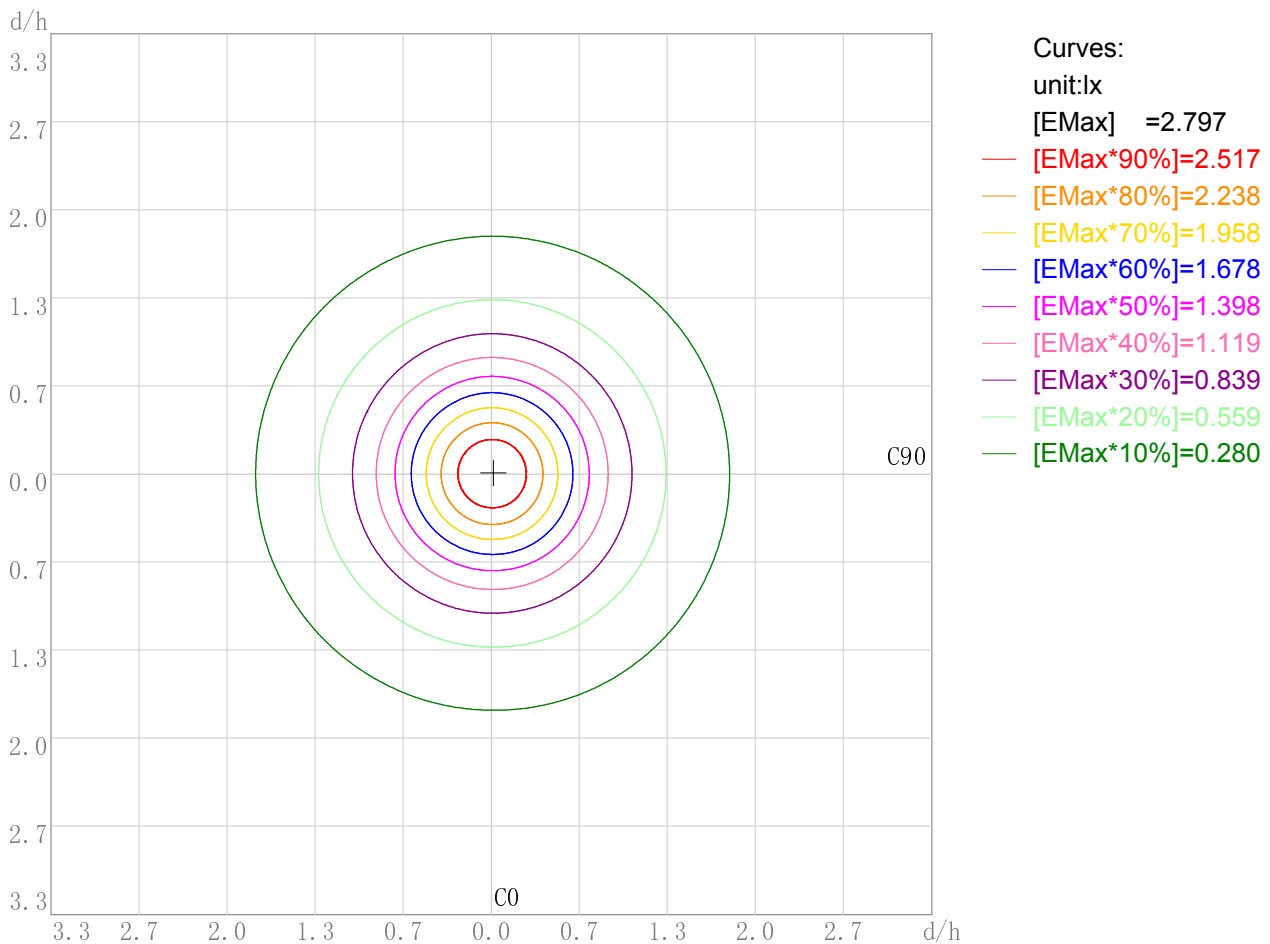


Maximum Light Intensity(cd): 25.20  
Maximum Cand.@Angle: H=2.6°,V=1.5°

### Plane ISO-Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01

Plane ISO-Illuminance Curve

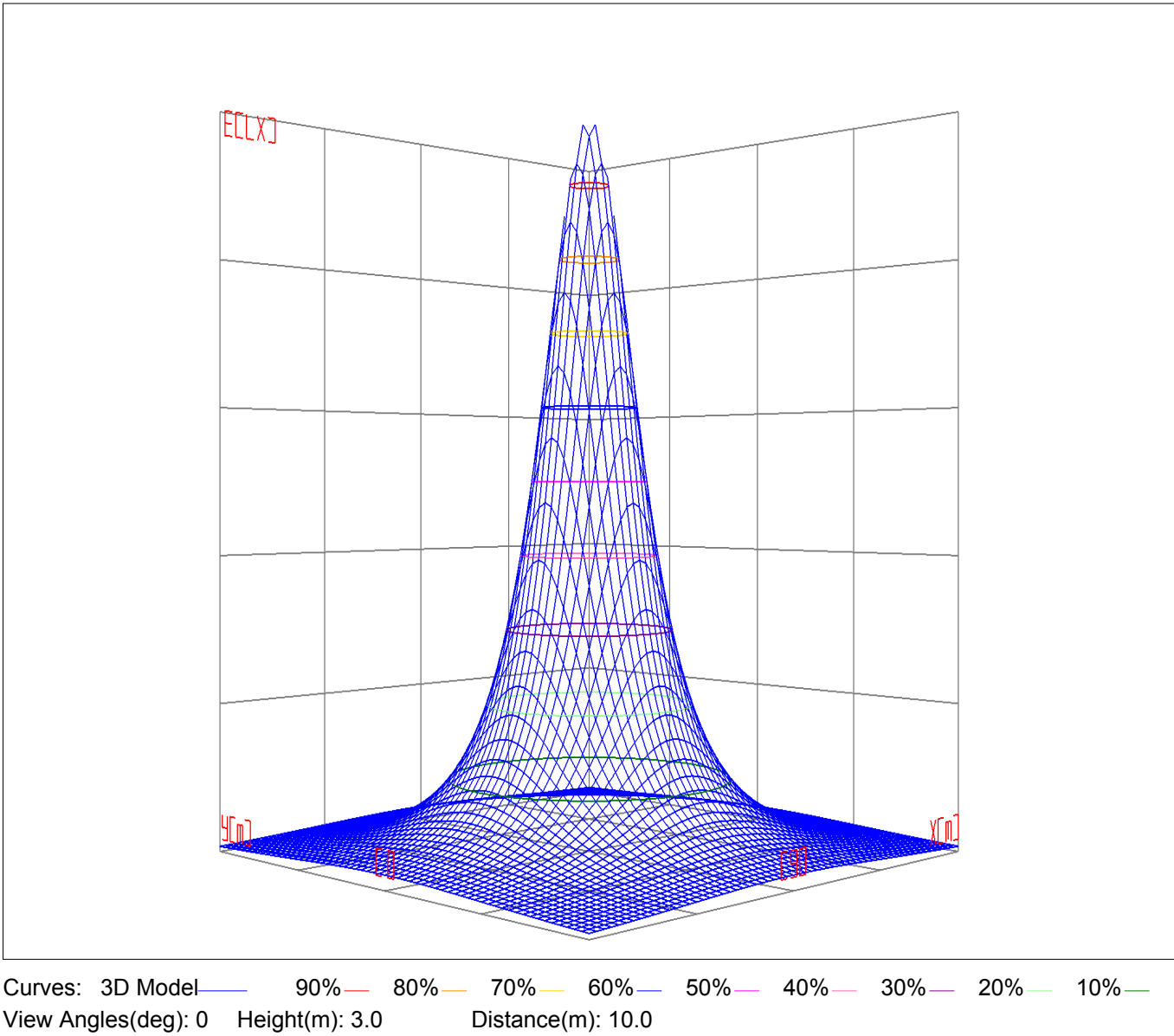


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 2.80  
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

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: 2021/03/01

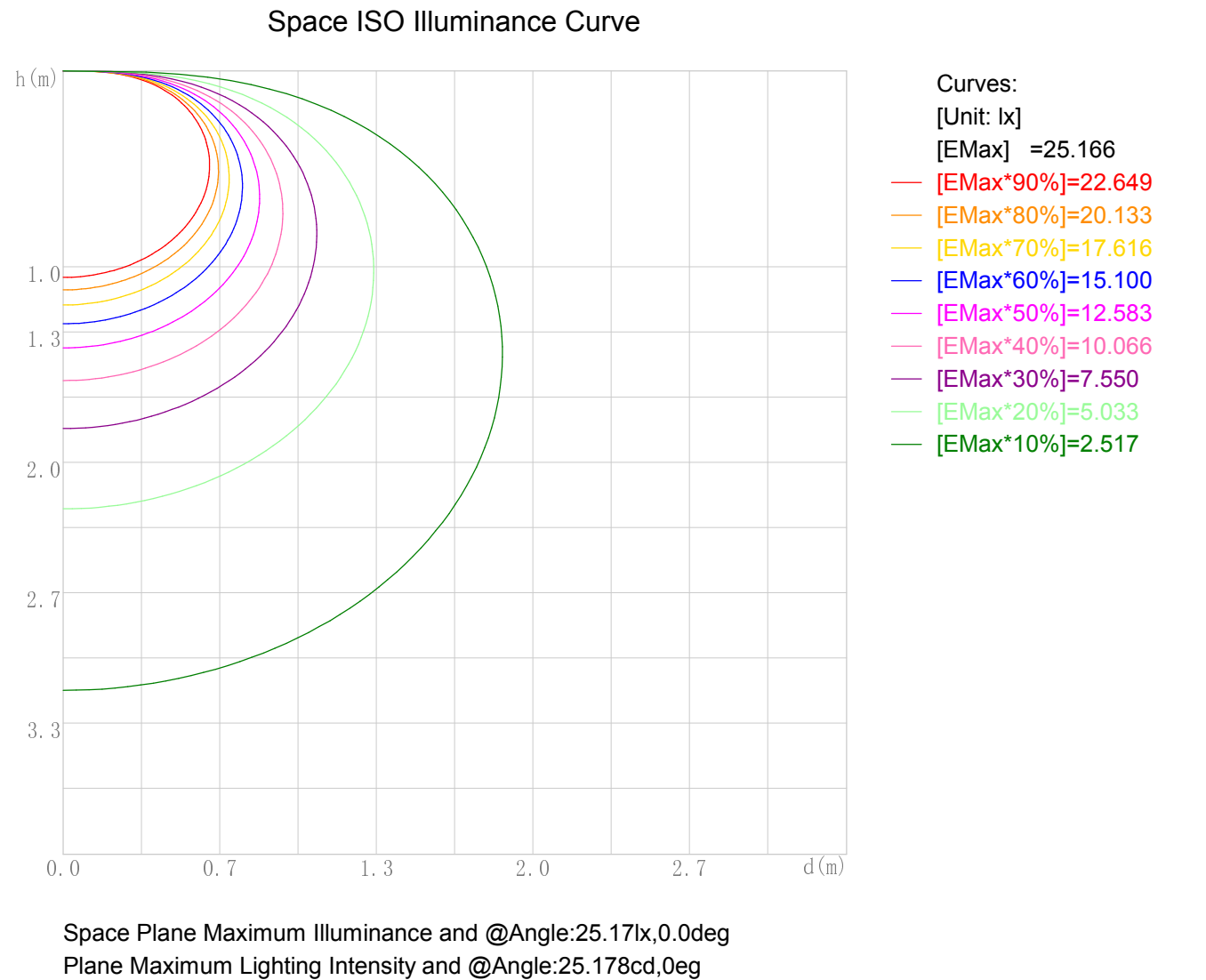
3D Plane Illuminance Modal





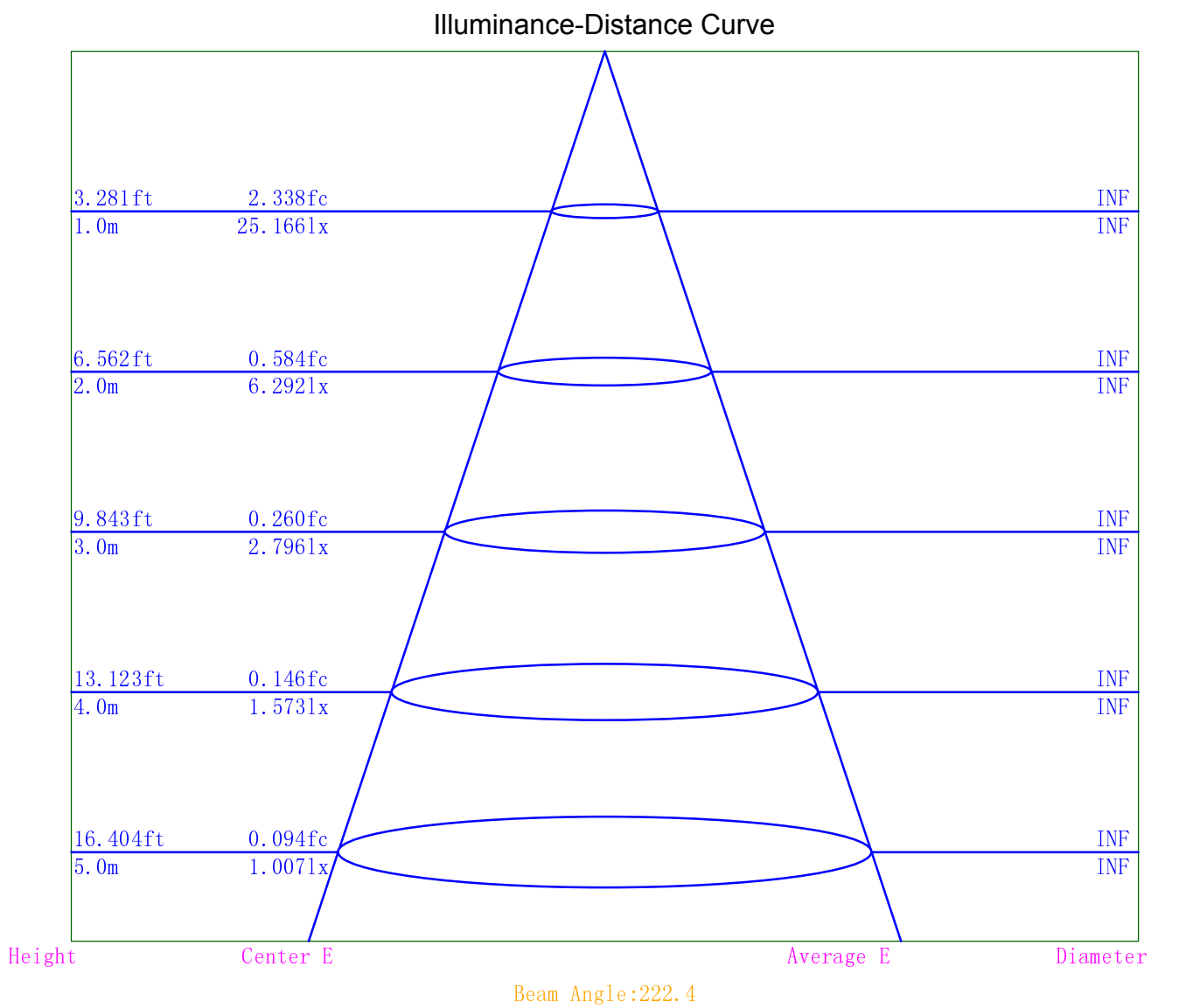
Space ISO Illuminance Diagram

Lum. Name:55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01



Illuminance-Distance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01



Indoor Luminance Limiting Curves

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01

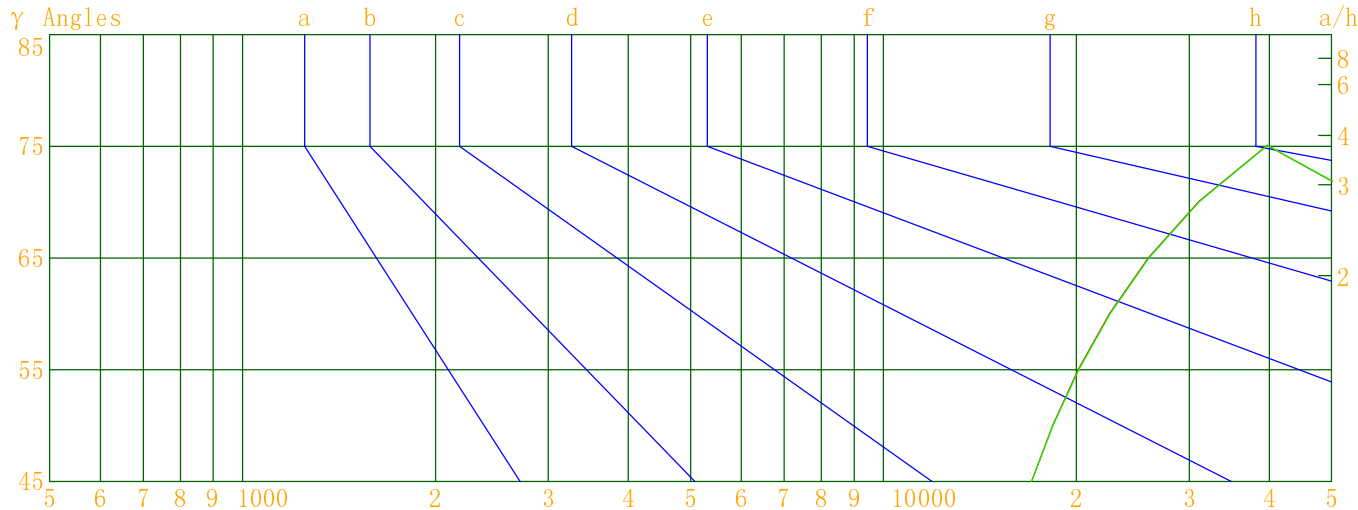
Glare Grade Table

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	17028	18374	20139	22535	25935	31074	39672	56951	108730
C90	17031	18383	20173	22581	25984	31138	39733	57075	109063

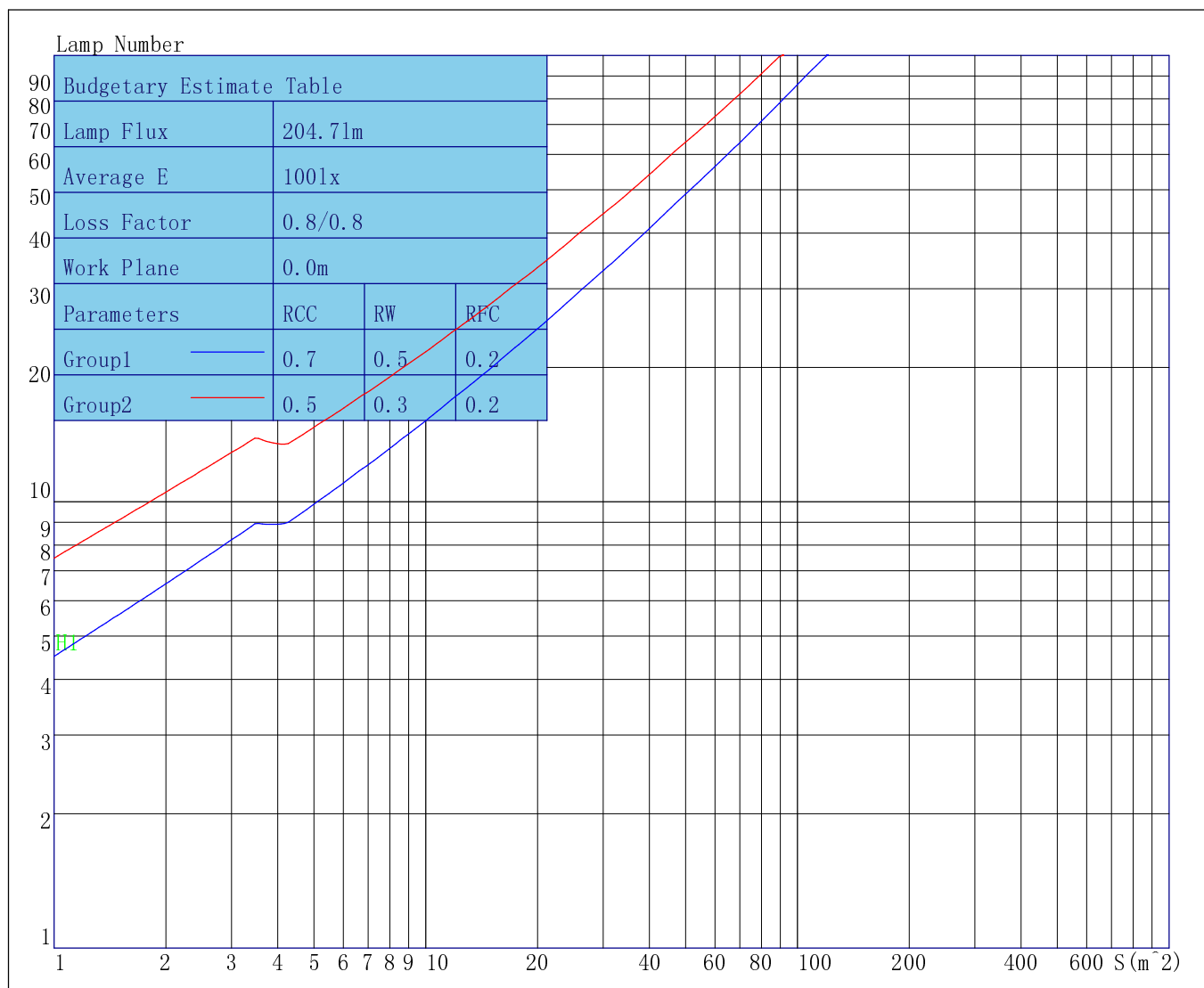
Luminance Limiting Curve



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: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

Lum. Name:55252	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	97	90	84	79	90	85	80	75	74	70	66	65	61	58	56	53	51	46
2	86	76	68	61	80	72	64	58	62	57	51	54	49	45	46	43	39	35
3	78	66	56	49	72	62	53	46	54	47	41	46	41	36	40	35	32	28
4	71	57	48	40	65	54	45	38	47	40	34	41	35	30	35	30	26	23
5	64	51	41	34	60	47	39	32	42	34	29	36	30	25	31	26	22	19
6	59	45	36	29	55	42	34	27	37	30	25	32	26	22	28	23	19	16
7	55	40	31	25	51	38	30	24	33	26	21	29	23	19	25	20	17	14
8	51	37	28	22	47	34	26	21	30	24	19	27	21	17	23	18	15	12
9	47	33	25	19	44	31	24	18	28	21	17	24	19	15	21	16	13	11
10	44	31	23	17	41	29	21	16	26	19	15	22	17	13	20	15	12	10

**Unified Glare Rating Table**

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/03/01

**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	20.3	21.5	21.1	22.3	23.3	20.3	21.5	21.1	22.4	23.4
	Y=3H	23.4	24.5	24.2	25.3	26.3	23.4	24.5	24.2	25.3	26.4
	Y=4H	25.1	26.1	25.9	27.0	28.0	25.1	26.2	25.9	27.0	28.0
	Y=6H	27.0	28.0	27.8	28.8	29.9	27.0	28.0	27.8	28.8	29.9
	Y=8H	28.0	29.0	28.9	29.9	30.9	28.1	29.0	28.9	29.9	30.9
	Y=12H	29.3	30.2	30.1	31.0	32.1	29.3	30.2	30.1	31.0	32.1
X=4H	Y=2H	21.4	22.5	22.3	23.3	24.4	21.5	22.5	22.3	23.4	24.4
	Y=3H	24.7	25.6	25.5	26.5	27.5	24.7	25.6	25.5	26.5	27.6
	Y=4H	26.5	27.4	27.4	28.3	29.3	26.6	27.4	27.4	28.3	29.4
	Y=6H	28.6	29.4	29.5	30.3	31.3	28.7	29.4	29.5	30.3	31.4
	Y=8H	29.8	30.5	30.6	31.4	32.5	29.8	30.5	30.7	31.4	32.5
	Y=12H	31.1	31.7	32.0	32.6	33.7	31.1	31.8	32.0	32.7	33.8
X=8H	Y=4H	27.3	28.1	28.2	28.9	30.0	27.4	28.1	28.2	29.0	30.1
	Y=6H	29.7	30.3	30.5	31.2	32.4	29.7	30.3	30.6	31.3	32.5
	Y=8H	31.0	31.6	31.9	32.5	33.6	31.0	31.6	31.9	32.5	33.6
	Y=12H	32.5	33.0	33.4	33.9	35.1	32.6	33.1	33.5	34.0	35.1
X=12H	Y=4H	27.5	28.2	28.4	29.1	30.2	27.6	28.3	28.5	29.2	30.3
	Y=6H	30.0	30.6	30.9	31.5	32.6	30.0	30.6	30.9	31.5	32.7
	Y=8H	31.4	31.9	32.3	32.9	34.0	31.5	32.0	32.4	32.9	34.1
Variations with the objverver position at spacings											
S=1.0H		0.0/-0.0					0.0/-0.0				
S=1.5H		0.1/-0.1					0.1/-0.1				
S=2.0H		0.1/-0.3					0.1/-0.3				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		6.8					6.9				

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

**IES Indoor Report**  
**Photometric Filename:LL-150-0200-A.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	25.17	25.17	25.17	25.17	25.17	25.17	25.17	25.17	25.17	25.17	25.17	25.17
γ 1.0	25.16	25.17	25.18	25.18	25.18	25.16	25.15	25.17	25.15	25.16	25.16	25.17
γ 2.0	25.17	25.18	25.18	25.18	25.17	25.16	25.14	25.16	25.15	25.14	25.15	25.17
γ 3.0	25.18	25.20	25.19	25.18	25.18	25.16	25.11	25.13	25.12	25.14	25.15	25.15
γ 4.0	25.17	25.19	25.18	25.17	25.17	25.15	25.10	25.11	25.11	25.11	25.13	25.14
γ 5.0	25.16	25.19	25.18	25.17	25.15	25.14	25.09	25.09	25.09	25.09	25.12	25.13
γ 6.0	25.16	25.18	25.17	25.16	25.15	25.12	25.07	25.07	25.07	25.07	25.10	25.13
γ 7.0	25.15	25.17	25.17	25.15	25.13	25.11	25.05	25.06	25.05	25.07	25.09	25.11
γ 8.0	25.14	25.17	25.15	25.15	25.12	25.09	25.03	25.03	25.04	25.04	25.07	25.10
γ 9.0	25.13	25.16	25.15	25.13	25.11	25.08	25.01	25.01	25.00	25.01	25.05	25.09
γ 10.0	25.12	25.15	25.14	25.14	25.10	25.07	24.98	24.98	24.98	25.00	25.02	25.07
γ 11.0	25.11	25.14	25.12	25.11	25.08	25.06	24.97	24.95	24.95	24.98	25.01	25.05
γ 12.0	25.10	25.13	25.11	25.10	25.07	25.03	24.92	24.92	24.92	24.96	25.00	25.03
γ 13.0	25.07	25.11	25.10	25.08	25.05	25.01	24.90	24.89	24.89	24.93	24.98	25.02
γ 14.0	25.06	25.10	25.09	25.07	25.03	25.00	24.88	24.86	24.86	24.90	24.95	24.99
γ 15.0	25.04	25.08	25.07	25.04	25.01	24.97	24.86	24.83	24.83	24.87	24.92	24.98
γ 16.0	25.03	25.06	25.05	25.03	25.00	24.95	24.81	24.80	24.80	24.84	24.90	24.94
γ 17.0	25.01	25.04	25.02	25.01	24.97	24.92	24.78	24.76	24.76	24.82	24.86	24.93
γ 18.0	24.99	25.02	25.01	24.99	24.95	24.90	24.73	24.73	24.73	24.79	24.83	24.89
γ 19.0	24.97	25.00	24.98	24.96	24.92	24.87	24.74	24.69	24.69	24.75	24.80	24.87
γ 20.0	24.93	24.96	24.96	24.93	24.90	24.84	24.69	24.65	24.65	24.70	24.77	24.84
γ 21.0	24.91	24.95	24.93	24.90	24.88	24.81	24.65	24.61	24.61	24.66	24.74	24.81
γ 22.0	24.89	24.92	24.91	24.88	24.84	24.78	24.61	24.57	24.57	24.62	24.70	24.78
γ 23.0	24.85	24.88	24.89	24.84	24.81	24.76	24.57	24.52	24.53	24.57	24.67	24.74
γ 24.0	24.82	24.85	24.84	24.81	24.77	24.72	24.53	24.48	24.49	24.53	24.62	24.70
γ 25.0	24.79	24.83	24.81	24.77	24.74	24.68	24.48	24.44	24.42	24.49	24.58	24.65
γ 26.0	24.75	24.79	24.77	24.74	24.71	24.64	24.44	24.39	24.39	24.45	24.53	24.61
γ 27.0	24.71	24.75	24.75	24.70	24.67	24.59	24.40	24.34	24.35	24.40	24.49	24.57
γ 28.0	24.67	24.70	24.70	24.66	24.63	24.55	24.35	24.29	24.29	24.35	24.44	24.52
γ 29.0	24.64	24.67	24.65	24.62	24.59	24.51	24.30	24.23	24.23	24.30	24.38	24.48
γ 30.0	24.59	24.62	24.62	24.57	24.52	24.46	24.24	24.16	24.19	24.25	24.33	24.42
γ 31.0	24.53	24.57	24.57	24.53	24.48	24.40	24.19	24.10	24.13	24.19	24.28	24.37
γ 32.0	24.50	24.54	24.52	24.46	24.45	24.36	24.13	24.07	24.06	24.12	24.23	24.33
γ 33.0	24.44	24.48	24.46	24.42	24.39	24.31	24.07	24.00	24.00	24.07	24.17	24.27
γ 34.0	24.38	24.42	24.42	24.38	24.33	24.25	24.01	23.92	23.94	24.01	24.11	24.21
γ 35.0	24.33	24.36	24.36	24.32	24.27	24.19	23.94	23.86	23.87	23.94	24.04	24.16
γ 36.0	24.28	24.31	24.31	24.27	24.22	24.14	23.88	23.79	23.80	23.88	23.98	24.09
γ 37.0	24.22	24.26	24.24	24.21	24.16	24.08	23.81	23.72	23.73	23.81	23.91	24.02
γ 38.0	24.15	24.18	24.18	24.14	24.09	24.02	23.75	23.64	23.66	23.73	23.85	23.95
γ 39.0	24.08	24.10	24.11	24.09	24.04	23.96	23.67	23.57	23.59	23.67	23.78	23.87
γ 40.0	24.03	24.04	24.05	24.01	23.97	23.89	23.61	23.49	23.51	23.61	23.71	23.82
γ 41.0	23.95	23.98	23.99	23.94	23.91	23.81	23.52	23.41	23.43	23.53	23.63	23.75
γ 42.0	23.89	23.90	23.89	23.88	23.83	23.75	23.45	23.33	23.34	23.44	23.55	23.67
γ 43.0	23.81	23.82	23.82	23.79	23.76	23.67	23.36	23.24	23.27	23.36	23.47	23.58
γ 44.0	23.73	23.75	23.74	23.72	23.68	23.60	23.28	23.17	23.18	23.27	23.37	23.50
γ 45.0	23.64	23.67	23.67	23.65	23.61	23.52	23.20	23.07	23.09	23.18	23.29	23.42
γ 46.0	23.56	23.58	23.59	23.56	23.52	23.44	23.12	22.97	23.01	23.10	23.22	23.33

**Photometric Filename:LL-150-0200-A.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	23.47	23.50	23.52	23.48	23.44	23.35	23.02	22.89	22.91	23.01	23.11	23.24
γ 48.0	23.38	23.42	23.42	23.39	23.35	23.27	22.94	22.80	22.82	22.91	23.01	23.15
γ 49.0	23.29	23.32	23.33	23.30	23.26	23.18	22.83	22.71	22.74	22.82	22.93	23.05
γ 50.0	23.19	23.23	23.23	23.20	23.17	23.07	22.74	22.61	22.62	22.71	22.82	22.95
γ 51.0	23.09	23.14	23.12	23.11	23.08	22.99	22.65	22.50	22.54	22.62	22.73	22.86
γ 52.0	23.00	23.03	23.04	23.02	22.99	22.89	22.55	22.41	22.43	22.52	22.62	22.77
γ 53.0	22.90	22.94	22.93	22.92	22.89	22.80	22.44	22.31	22.34	22.41	22.53	22.66
γ 54.0	22.79	22.83	22.85	22.81	22.78	22.70	22.34	22.19	22.22	22.31	22.43	22.55
γ 55.0	22.68	22.74	22.73	22.72	22.68	22.60	22.24	22.08	22.10	22.20	22.31	22.44
γ 56.0	22.58	22.62	22.62	22.61	22.56	22.49	22.11	21.97	22.00	22.09	22.21	22.33
γ 57.0	22.47	22.52	22.52	22.50	22.47	22.39	22.02	21.86	21.89	21.98	22.09	22.23
γ 58.0	22.37	22.40	22.41	22.40	22.36	22.29	21.90	21.75	21.79	21.86	21.97	22.10
γ 59.0	22.24	22.28	22.29	22.28	22.26	22.17	21.78	21.64	21.66	21.75	21.85	21.99
γ 60.0	22.12	22.17	22.19	22.17	22.14	22.06	21.67	21.51	21.55	21.63	21.74	21.86
γ 61.0	22.00	22.05	22.08	22.05	22.03	21.94	21.55	21.39	21.43	21.51	21.61	21.75
γ 62.0	21.89	21.93	21.95	21.92	21.90	21.83	21.43	21.27	21.31	21.38	21.50	21.62
γ 63.0	21.76	21.81	21.83	21.81	21.78	21.70	21.30	21.16	21.19	21.27	21.37	21.51
γ 64.0	21.63	21.69	21.70	21.69	21.67	21.58	21.18	21.04	21.05	21.14	21.24	21.37
γ 65.0	21.52	21.57	21.58	21.56	21.55	21.46	21.06	20.90	20.93	21.01	21.12	21.25
γ 66.0	21.38	21.45	21.46	21.43	21.41	21.33	20.93	20.79	20.80	20.88	20.99	21.12
γ 67.0	21.26	21.31	21.33	21.31	21.28	21.20	20.80	20.65	20.67	20.74	20.85	20.99
γ 68.0	21.13	21.16	21.19	21.18	21.16	21.07	20.66	20.51	20.53	20.62	20.70	20.84
γ 69.0	21.00	21.03	21.06	21.05	21.02	20.95	20.52	20.38	20.40	20.48	20.58	20.70
γ 70.0	20.87	20.90	20.93	20.91	20.89	20.81	20.38	20.25	20.25	20.33	20.43	20.56
γ 71.0	20.74	20.77	20.79	20.77	20.75	20.68	20.24	20.11	20.12	20.19	20.29	20.42
γ 72.0	20.59	20.62	20.66	20.63	20.62	20.54	20.10	19.97	19.98	20.06	20.16	20.28
γ 73.0	20.46	20.48	20.51	20.48	20.47	20.40	19.96	19.83	19.83	19.91	20.01	20.14
γ 74.0	20.31	20.33	20.37	20.33	20.33	20.26	19.81	19.68	19.69	19.76	19.88	19.99
γ 75.0	20.16	20.18	20.21	20.19	20.18	20.11	19.66	19.53	19.53	19.62	19.71	19.83
γ 76.0	20.01	20.04	20.07	20.06	20.06	19.97	19.53	19.39	19.38	19.47	19.57	19.69
γ 77.0	19.86	19.89	19.93	19.92	19.89	19.82	19.38	19.25	19.23	19.31	19.42	19.54
γ 78.0	19.72	19.74	19.78	19.76	19.75	19.66	19.22	19.09	19.08	19.17	19.25	19.38
γ 79.0	19.56	19.58	19.62	19.61	19.60	19.51	19.07	18.94	18.94	19.01	19.11	19.23
γ 80.0	19.42	19.42	19.47	19.46	19.45	19.36	18.92	18.80	18.77	18.86	18.95	19.07
γ 81.0	19.25	19.26	19.31	19.31	19.28	19.22	18.77	18.64	18.63	18.70	18.80	18.91
γ 82.0	19.08	19.11	19.15	19.14	19.14	19.05	18.61	18.50	18.47	18.55	18.65	18.75
γ 83.0	18.93	18.94	18.99	18.99	19.00	18.89	18.44	18.33	18.32	18.40	18.49	18.60
γ 84.0	18.77	18.78	18.85	18.82	18.83	18.75	18.27	18.18	18.16	18.24	18.33	18.43
γ 85.0	18.61	18.61	18.68	18.66	18.67	18.59	18.14	18.02	18.00	18.07	18.17	18.28
γ 86.0	18.45	18.45	18.52	18.50	18.52	18.42	17.96	17.85	17.84	17.90	18.01	18.11
γ 87.0	18.28	18.29	18.35	18.34	18.36	18.26	17.80	17.68	17.68	17.75	17.84	17.94
γ 88.0	18.10	18.11	18.18	18.17	18.19	18.10	17.63	17.53	17.51	17.59	17.67	17.78
γ 89.0	17.94	17.93	18.02	18.02	18.03	17.92	17.47	17.36	17.35	17.43	17.51	17.59
γ 90.0	17.77	17.76	17.84	17.84	17.85	17.77	17.31	17.20	17.18	17.27	17.35	17.43
γ 91.0	17.61	17.59	17.67	17.68	17.69	17.59	17.14	17.03	17.03	17.10	17.19	17.25
γ 92.0	17.44	17.42	17.50	17.51	17.53	17.42	16.97	16.87	16.85	16.93	17.02	17.09
γ 93.0	17.26	17.25	17.33	17.34	17.36	17.27	16.79	16.69	16.69	16.76	16.85	16.91



**Photometric Filename:LL-150-0200-A.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	17.10	17.08	17.16	17.17	17.21	17.09	16.63	16.52	16.52	16.60	16.68	16.76
γ 95.0	16.91	16.91	16.99	17.00	17.02	16.93	16.45	16.34	16.35	16.43	16.51	16.58
γ 96.0	16.74	16.71	16.81	16.83	16.85	16.76	16.29	16.17	16.18	16.27	16.35	16.40
γ 97.0	16.56	16.54	16.62	16.65	16.68	16.58	16.09	15.98	15.99	16.09	16.19	16.24
γ 98.0	16.38	16.34	16.45	16.48	16.53	16.41	15.93	15.79	15.81	15.91	16.02	16.06
γ 99.0	16.20	16.16	16.28	16.31	16.36	16.24	15.74	15.60	15.63	15.73	15.84	15.87
γ 100.0	16.02	15.98	16.09	16.12	16.18	16.06	15.56	15.40	15.45	15.56	15.66	15.69
γ 101.0	15.83	15.79	15.90	15.96	16.00	15.88	15.37	15.20	15.27	15.39	15.48	15.51
γ 102.0	15.65	15.58	15.73	15.76	15.85	15.69	15.19	15.00	15.08	15.19	15.30	15.33
γ 103.0	15.45	15.38	15.54	15.58	15.64	15.51	15.00	14.81	14.89	15.01	15.13	15.14
γ 104.0	15.26	15.19	15.35	15.39	15.46	15.33	14.82	14.60	14.71	14.84	14.95	14.94
γ 105.0	15.08	14.99	15.15	15.21	15.27	15.14	14.62	14.38	14.52	14.65	14.77	14.77
γ 106.0	14.90	14.80	14.97	15.02	15.09	14.96	14.45	14.18	14.33	14.45	14.59	14.59
γ 107.0	14.69	14.59	14.78	14.84	14.91	14.78	14.25	13.94	14.15	14.26	14.38	14.39
γ 108.0	14.52	14.37	14.59	14.65	14.72	14.58	14.05	13.65	13.95	14.07	14.21	14.20
γ 109.0	14.31	14.11	14.40	14.46	14.55	14.39	13.85	13.23	13.76	13.89	14.02	14.00
γ 110.0	14.13	13.79	14.21	14.27	14.34	14.19	13.66	12.68	13.57	13.70	13.82	13.82
γ 111.0	13.92	13.37	14.01	14.09	14.16	14.00	13.47	11.98	13.38	13.51	13.64	13.63
γ 112.0	13.74	12.80	13.82	13.90	13.97	13.82	13.28	11.17	13.19	13.33	13.45	13.44
γ 113.0	13.54	11.99	13.62	13.72	13.76	13.62	13.08	10.32	12.99	13.14	13.25	13.26
γ 114.0	13.35	11.12	13.43	13.54	13.58	13.44	12.89	9.47	12.80	12.94	13.06	13.07
γ 115.0	13.16	10.19	13.23	13.35	13.39	13.24	12.68	8.68	12.59	12.76	12.86	12.88
γ 116.0	12.97	9.26	13.02	13.17	13.18	13.04	12.49	7.96	12.39	12.57	12.67	12.69
γ 117.0	12.74	8.34	12.84	12.99	12.98	12.85	12.29	7.29	12.20	12.38	12.47	12.50
γ 118.0	12.51	7.44	12.64	12.78	12.79	12.65	12.08	6.69	12.01	12.18	12.27	12.31
γ 119.0	12.26	6.55	12.44	12.60	12.58	12.46	11.89	6.45	11.80	12.01	12.07	12.12
γ 120.0	12.02	5.70	12.24	12.40	12.37	12.26	11.69	6.61	11.61	11.81	11.86	11.93
γ 121.0	11.77	5.11	12.04	12.22	12.18	12.07	11.48	6.88	11.41	11.60	11.65	11.75
γ 122.0	11.51	4.99	11.84	12.03	11.97	11.86	11.28	7.14	11.20	11.41	11.45	11.56
γ 123.0	11.28	4.98	11.64	11.85	11.75	11.68	11.07	7.33	11.00	11.23	11.25	11.36
γ 124.0	11.05	4.98	11.45	11.65	11.55	11.47	10.88	7.37	10.80	11.02	11.03	11.16
γ 125.0	10.79	4.96	11.24	11.45	11.35	11.28	10.67	7.40	10.60	10.83	10.83	10.98
γ 126.0	10.51	4.89	11.04	11.27	11.13	11.07	10.47	7.43	10.40	10.64	10.62	10.79
γ 127.0	10.17	4.77	10.84	11.06	10.93	10.89	10.27	7.45	10.19	10.43	10.41	10.59
γ 128.0	9.81	4.66	10.65	10.87	10.73	10.68	10.06	7.48	9.98	10.22	10.20	10.39
γ 129.0	9.41	4.49	10.44	10.68	10.51	10.48	9.85	7.44	9.78	10.04	9.99	10.20
γ 130.0	8.97	4.28	10.25	10.48	10.31	10.27	9.65	7.30	9.57	9.84	9.78	10.00
γ 131.0	8.44	4.06	10.04	10.28	10.08	10.06	9.44	7.15	9.37	9.63	9.57	9.81
γ 132.0	7.73	3.78	9.85	10.08	9.87	9.86	9.24	7.01	9.17	9.44	9.35	9.61
γ 133.0	6.99	3.52	9.63	9.89	9.66	9.66	9.03	6.86	8.96	9.23	9.13	9.42
γ 134.0	6.15	3.31	9.42	9.69	9.44	9.47	8.82	6.71	8.74	9.03	8.91	9.23
γ 135.0	5.37	3.07	9.21	9.49	9.24	9.24	8.61	6.57	8.53	8.84	8.70	9.02
γ 136.0	4.67	2.82	8.98	9.30	9.01	9.04	8.39	6.41	8.34	8.62	8.50	8.82
γ 137.0	4.00	2.69	8.75	9.11	8.78	8.83	8.19	6.24	8.14	8.43	8.28	8.63
γ 138.0	3.42	2.67	8.56	8.90	8.57	8.61	7.97	6.03	7.91	8.22	8.06	8.43
γ 139.0	3.06	2.66	8.36	8.69	8.37	8.42	7.76	5.82	7.71	8.01	7.86	8.23
γ 140.0	3.08	2.65	8.18	8.51	8.13	8.21	7.55	5.58	7.50	7.80	7.63	8.03

IES Indoor Report

Photometric Filename:LL-150-0200-A.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
γ 141.0	3.57	2.68	8.02	8.30	7.93	8.01	7.35	5.34	7.29	7.60	7.43	7.84
γ 142.0	4.02	2.79	7.83	8.10	7.71	7.79	7.14	5.10	7.08	7.40	7.22	7.64
γ 143.0	4.53	2.92	7.63	7.90	7.49	7.59	6.94	4.83	6.88	7.19	7.00	7.43
γ 144.0	5.09	3.09	7.43	7.71	7.28	7.38	6.73	4.57	6.67	6.99	6.80	7.23
γ 145.0	5.65	3.16	7.23	7.51	7.07	7.17	6.51	4.30	6.45	6.78	6.59	7.04
γ 146.0	6.13	3.12	7.03	7.29	6.86	6.96	6.30	4.03	6.25	6.58	6.37	6.84
γ 147.0	6.42	3.07	6.82	7.11	6.65	6.77	6.09	3.75	6.03	6.36	6.17	6.63
γ 148.0	6.41	3.06	6.62	6.90	6.43	6.56	5.87	3.49	5.82	6.14	5.97	6.41
γ 149.0	6.37	3.02	6.41	6.67	6.23	6.35	5.67	3.23	5.61	5.89	5.77	6.18
γ 150.0	6.16	2.97	6.19	6.42	6.03	6.13	5.45	2.95	5.39	5.64	5.57	5.93
γ 151.0	5.93	2.86	5.98	6.17	5.82	5.90	5.22	2.67	5.14	5.38	5.36	5.68
γ 152.0	5.70	2.80	5.76	5.91	5.62	5.65	4.96	2.39	4.88	5.13	5.16	5.43
γ 153.0	5.44	2.76	5.52	5.66	5.43	5.40	4.68	2.10	4.61	4.90	4.96	5.20
γ 154.0	5.19	2.52	5.26	5.40	5.22	5.16	4.37	1.83	4.30	4.68	4.78	4.97
γ 155.0	4.91	2.24	4.99	5.16	5.02	4.93	4.03	1.57	3.97	4.45	4.58	4.72
γ 156.0	4.62	1.95	4.66	4.93	4.82	4.71	3.69	1.31	3.63	4.22	4.39	4.50
γ 157.0	4.31	1.67	4.34	4.67	4.62	4.47	3.36	1.01	3.30	4.00	4.20	4.25
γ 158.0	3.98	1.43	4.01	4.43	4.44	4.25	3.05	0.68	2.97	3.78	4.00	4.03
γ 159.0	3.65	1.12	3.66	4.20	4.23	4.01	2.71	0.37	2.63	3.59	3.81	3.82
γ 160.0	3.34	0.80	3.33	3.98	4.05	3.80	2.42	0.09	2.31	3.37	3.62	3.59
γ 161.0	3.00	0.50	2.98	3.77	3.85	3.57	2.13	0.00	2.03	3.17	3.43	3.39
γ 162.0	2.67	0.23	2.62	3.55	3.65	3.36	1.88	0.00	1.78	2.97	3.25	3.18
γ 163.0	2.34	0.00	2.28	3.33	3.46	3.15	1.69	0.00	1.59	2.78	3.07	2.99
γ 164.0	2.05	0.00	2.01	3.13	3.27	2.96	1.59	0.07	1.48	2.58	2.90	2.77
γ 165.0	1.79	0.00	1.76	2.93	3.09	2.76	1.52	0.16	1.41	2.41	2.73	2.57
γ 166.0	1.60	0.00	1.56	2.73	2.92	2.60	1.45	0.26	1.36	2.26	2.56	2.39
γ 167.0	1.48	0.01	1.45	2.53	2.74	2.43	1.31	0.31	1.26	2.10	2.41	2.22
γ 168.0	1.41	0.09	1.37	2.34	2.59	2.26	1.17	0.32	1.12	1.97	2.25	2.06
γ 169.0	1.35	0.14	1.25	2.17	2.41	2.11	1.03	0.29	0.98	1.83	2.10	1.91
γ 170.0	1.21	0.15	1.08	2.01	2.25	1.98	0.88	0.22	0.81	1.67	1.94	1.73
γ 171.0	1.01	0.10	0.89	1.86	2.09	1.84	0.76	0.15	0.66	1.49	1.78	1.55
γ 172.0	0.84	0.03	0.73	1.68	1.94	1.70	0.61	0.09	0.51	1.27	1.58	1.34
γ 173.0	0.67	0.00	0.58	1.48	1.78	1.52	0.48	0.02	0.36	1.04	1.31	1.11
γ 174.0	0.53	0.00	0.43	1.24	1.56	1.30	0.36	0.00	0.23	0.83	1.05	0.91
γ 175.0	0.39	0.00	0.30	0.99	1.29	1.07	0.21	0.00	0.08	0.64	0.81	0.71
γ 176.0	0.26	0.00	0.18	0.77	1.02	0.84	0.06	0.00	0.00	0.43	0.58	0.51
γ 177.0	0.13	0.00	0.06	0.54	0.74	0.60	0.00	0.00	0.00	0.16	0.36	0.30
γ 178.0	0.00	0.00	0.00	0.33	0.47	0.35	0.00	0.00	0.00	0.00	0.05	0.08
γ 179.0	0.00	0.00	0.00	0.10	0.21	0.07	0.00	0.00	0.00	0.00	0.00	0.00
γ 180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00