

IES Indoor Report

Photometric Filename:OJL102 (WIDE) 3W.IES

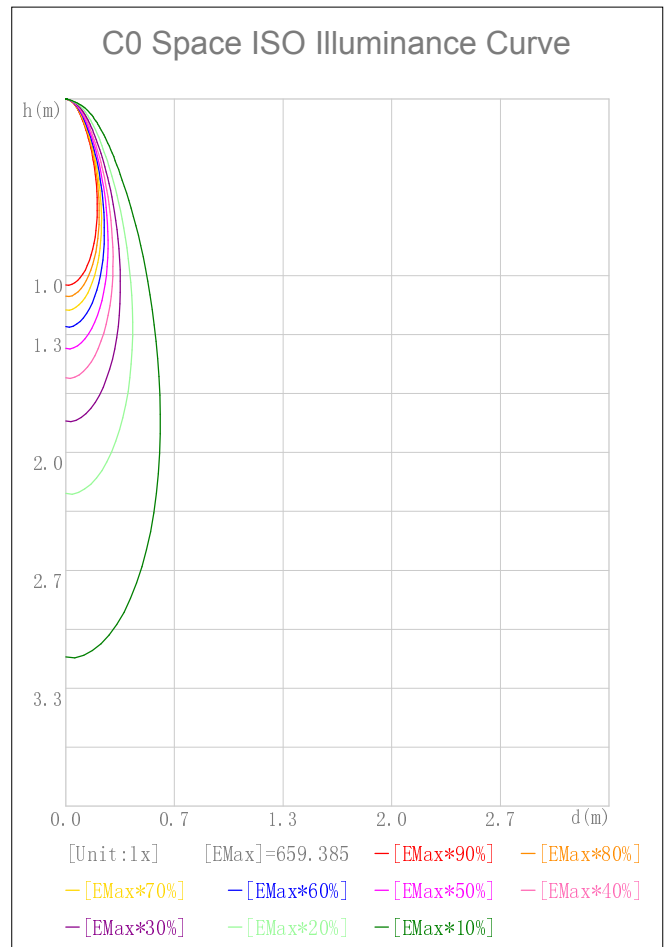
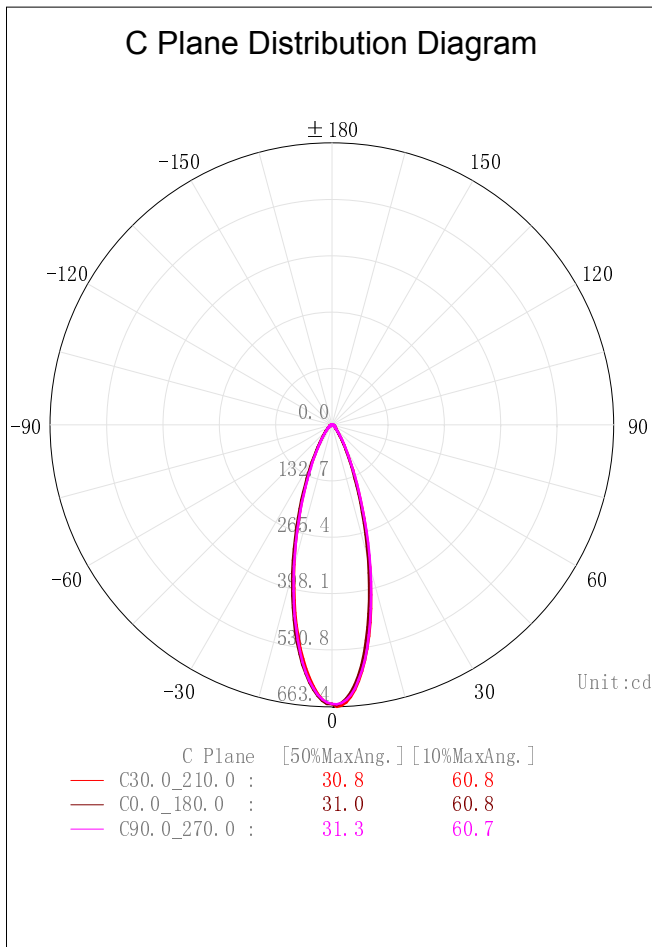
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: 55252		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2023/09/25
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): 255.650	Luminaire Flux(lm): 255.652	Field Angle(10%Imax): 60.8(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 255.501lm 99.94%	
Rated Voltage(V):	Luminaire EER(lm/W): 121.565	Up Lumens&Percent: 0.151lm 0.06%	
Tested Power(W): 2.103	Max. Candela(cd): 663.442	S/MH: C0_a180=0.514 C90_270=0.518	
Lamps' Inside: 1	Max Cand@Ang.(°): C=30.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf): 120.5, 0.033, 0.522	Beam Angle(50%Imax): 30.8(°)	ErP Φ use(90°): 239.006lm	
Lamp Size(W*L*H):0.050m*~0.050m*0.000m	Left=-15.3°, Right=15.5°	IRF(%): 556.786	



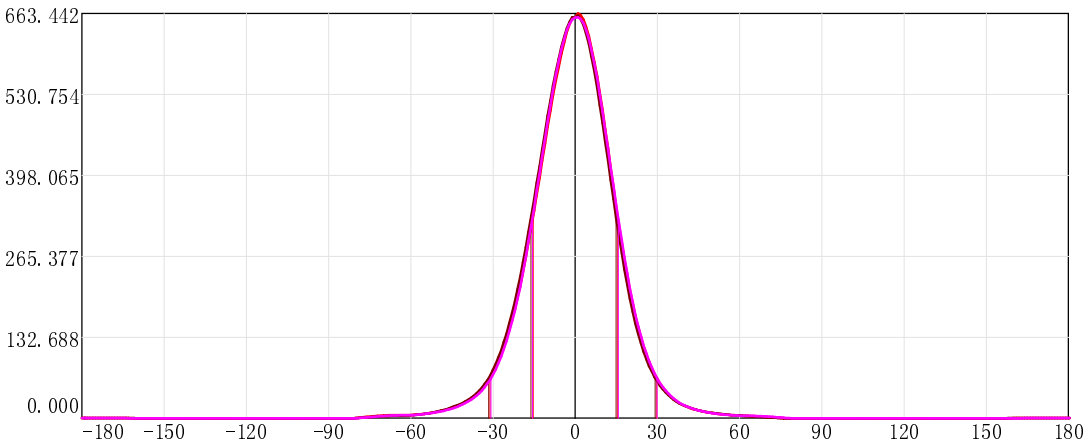
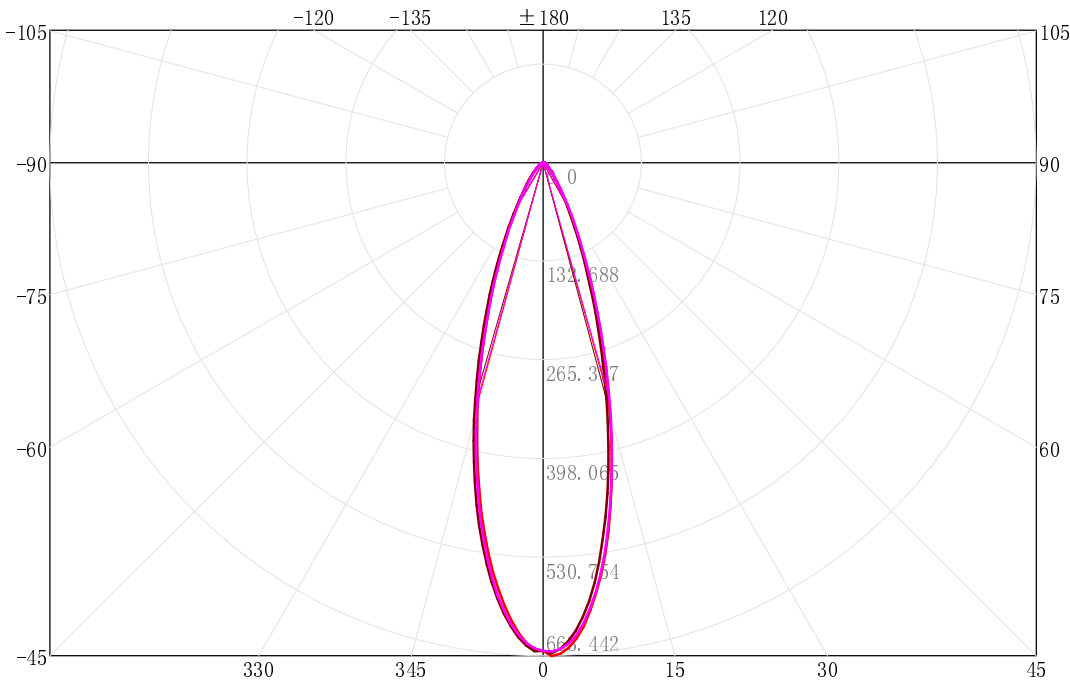
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2D Plane Light Intensity Distribution Curve

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/09/25

C Plane Distribution Diagram



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C30.0_210.0 :	30.8	60.8	
—	C0.0_180.0 :	31.0	60.8	
—	C90.0_270.0 :	31.3	60.7	

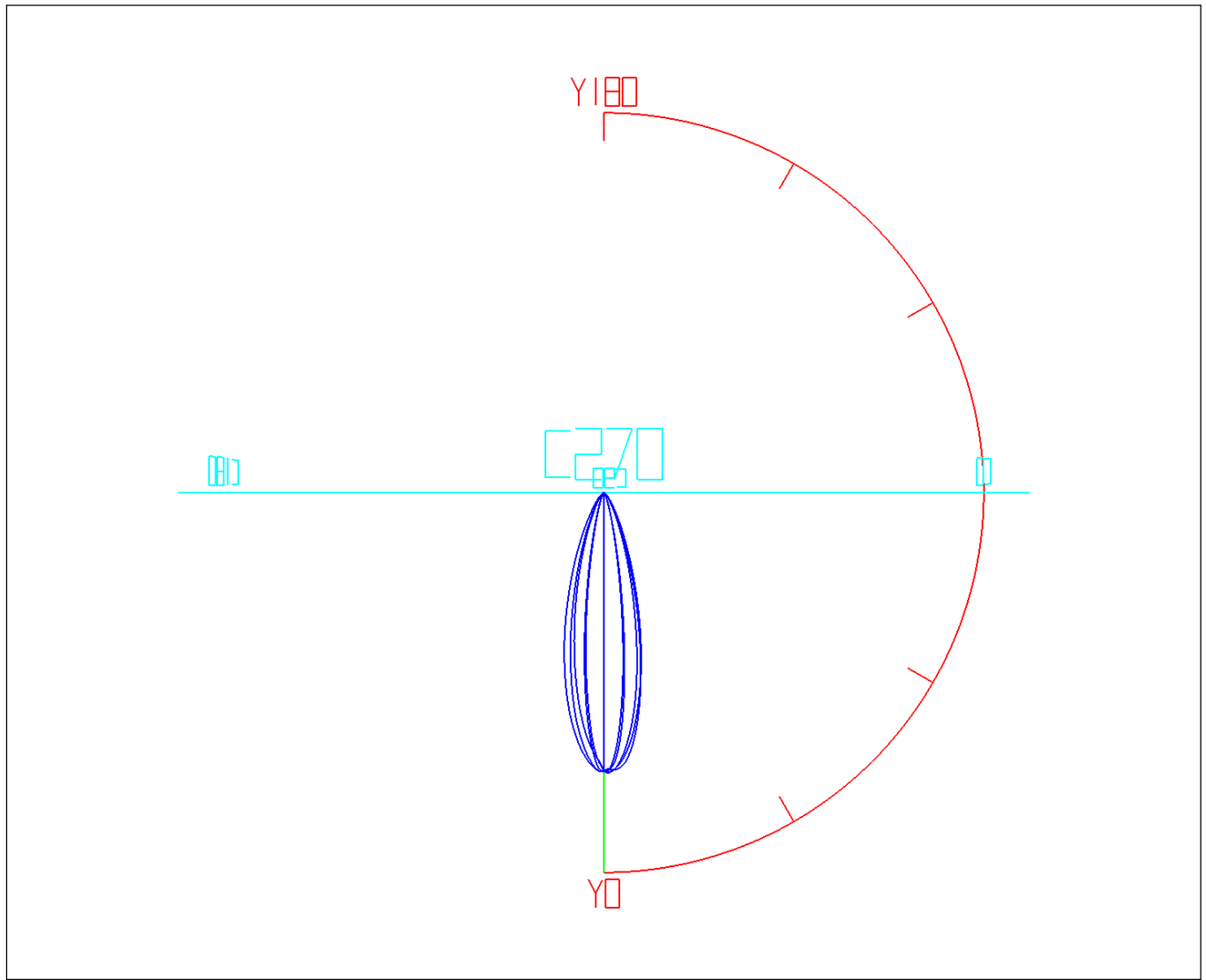
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3D Light Intensity Distribution Modal

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

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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	0.63	0.63	0.25	0.25	47.0-48.0	0.98	242.23	0.38	94.75
1.0-2.0	1.87	2.50	0.73	0.98	48.0-49.0	0.91	243.14	0.36	95.11
2.0-3.0	3.08	5.58	1.21	2.18	49.0-50.0	0.85	243.99	0.33	95.44
3.0-4.0	4.24	9.82	1.66	3.84	50.0-51.0	0.80	244.78	0.31	95.75
4.0-5.0	5.32	15.14	2.08	5.92	51.0-52.0	0.74	245.53	0.29	96.04
5.0-6.0	6.32	21.46	2.47	8.39	52.0-53.0	0.70	246.23	0.27	96.31
6.0-7.0	7.20	28.66	2.82	11.21	53.0-54.0	0.65	246.88	0.26	96.57
7.0-8.0	7.97	36.64	3.12	14.33	54.0-55.0	0.61	247.49	0.24	96.81
8.0-9.0	8.62	45.26	3.37	17.70	55.0-56.0	0.58	248.07	0.23	97.04
9.0-10.0	9.14	54.40	3.57	21.28	56.0-57.0	0.54	248.61	0.21	97.25
10.0-11.0	9.53	63.92	3.73	25.00	57.0-58.0	0.51	249.13	0.20	97.45
11.0-12.0	9.79	73.71	3.83	28.83	58.0-59.0	0.49	249.62	0.19	97.64
12.0-13.0	9.93	83.64	3.88	32.72	59.0-60.0	0.47	250.08	0.18	97.82
13.0-14.0	9.95	93.59	3.89	36.61	60.0-61.0	0.45	250.53	0.18	98.00
14.0-15.0	9.88	103.46	3.86	40.47	61.0-62.0	0.43	250.97	0.17	98.17
15.0-16.0	9.70	113.17	3.79	44.27	62.0-63.0	0.42	251.39	0.17	98.33
16.0-17.0	9.44	122.61	3.69	47.96	63.0-64.0	0.42	251.81	0.16	98.50
17.0-18.0	9.11	131.72	3.56	51.52	64.0-65.0	0.41	252.21	0.16	98.66
18.0-19.0	8.72	140.43	3.41	54.93	65.0-66.0	0.40	252.61	0.15	98.81
19.0-20.0	8.29	148.72	3.24	58.17	66.0-67.0	0.38	252.99	0.15	98.96
20.0-21.0	7.83	156.55	3.06	61.24	67.0-68.0	0.36	253.35	0.14	99.10
21.0-22.0	7.36	163.91	2.88	64.12	68.0-69.0	0.34	253.69	0.13	99.23
22.0-23.0	6.89	170.80	2.69	66.81	69.0-70.0	0.32	254.01	0.12	99.36
23.0-24.0	6.41	177.21	2.51	69.32	70.0-71.0	0.29	254.30	0.11	99.47
24.0-25.0	5.94	183.16	2.32	71.64	71.0-72.0	0.26	254.56	0.10	99.57
25.0-26.0	5.49	188.65	2.15	73.79	72.0-73.0	0.23	254.79	0.09	99.66
26.0-27.0	5.07	193.72	1.98	75.77	73.0-74.0	0.20	254.98	0.08	99.74
27.0-28.0	4.67	198.39	1.83	77.60	74.0-75.0	0.16	255.14	0.06	99.80
28.0-29.0	4.29	202.68	1.68	79.28	75.0-76.0	0.13	255.27	0.05	99.85
29.0-30.0	3.93	206.61	1.54	80.82	76.0-77.0	0.10	255.37	0.04	99.89
30.0-31.0	3.61	210.22	1.41	82.23	77.0-78.0	0.07	255.43	0.03	99.92
31.0-32.0	3.31	213.52	1.29	83.52	78.0-79.0	0.04	255.47	0.02	99.93
32.0-33.0	3.03	216.56	1.19	84.71	79.0-80.0	0.02	255.49	0.01	99.94
33.0-34.0	2.79	219.35	1.09	85.80	80.0-81.0	0.01	255.50	0.00	99.94
34.0-35.0	2.57	221.92	1.01	86.80	81.0-82.0	0.00	255.50	0.00	99.94
35.0-36.0	2.37	224.28	0.93	87.73	82.0-83.0	0.00	255.50	0.00	99.94
36.0-37.0	2.18	226.47	0.85	88.58	83.0-84.0	0.00	255.50	0.00	99.94
37.0-38.0	2.02	228.48	0.79	89.37	84.0-85.0	0.00	255.50	0.00	99.94
38.0-39.0	1.87	230.35	0.73	90.10	85.0-86.0	0.00	255.50	0.00	99.94
39.0-40.0	1.73	232.09	0.68	90.78	86.0-87.0	0.00	255.50	0.00	99.94
40.0-41.0	1.61	233.69	0.63	91.41	87.0-88.0	0.00	255.50	0.00	99.94
41.0-42.0	1.49	235.19	0.58	92.00	88.0-89.0	0.00	255.50	0.00	99.94
42.0-43.0	1.39	236.58	0.54	92.54	89.0-90.0	0.00	255.50	0.00	99.94
43.0-44.0	1.30	237.87	0.51	93.05	90.0-91.0	0.00	255.50	0.00	99.94
44.0-45.0	1.21	239.08	0.47	93.52	91.0-92.0	0.00	255.50	0.00	99.94
45.0-46.0	1.12	240.20	0.44	93.96	92.0-93.0	0.00	255.50	0.00	99.94
46.0-47.0	1.05	241.25	0.41	94.37	93.0-94.0	0.00	255.50	0.00	99.94

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Zonal Flux Tabulation - (Cont.)

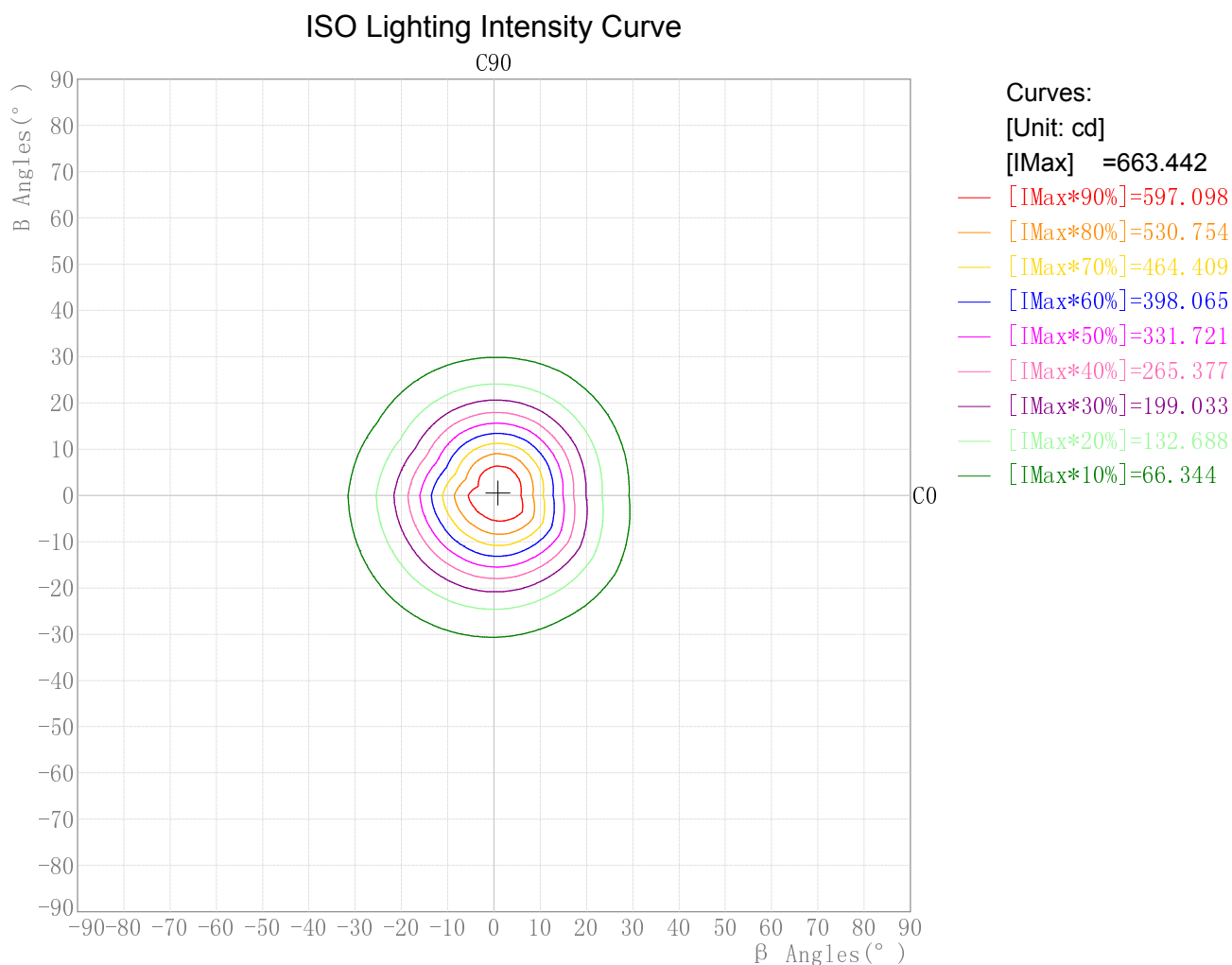
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.00	255.50	0.00	99.94	141.0-142.0	0.00	255.50	0.00	99.94
95.0-96.0	0.00	255.50	0.00	99.94	142.0-143.0	0.00	255.50	0.00	99.94
96.0-97.0	0.00	255.50	0.00	99.94	143.0-144.0	0.00	255.50	0.00	99.94
97.0-98.0	0.00	255.50	0.00	99.94	144.0-145.0	0.00	255.50	0.00	99.94
98.0-99.0	0.00	255.50	0.00	99.94	145.0-146.0	0.00	255.50	0.00	99.94
99.0-100.0	0.00	255.50	0.00	99.94	146.0-147.0	0.00	255.50	0.00	99.94
100.0-101.0	0.00	255.50	0.00	99.94	147.0-148.0	0.00	255.50	0.00	99.94
101.0-102.0	0.00	255.50	0.00	99.94	148.0-149.0	0.00	255.50	0.00	99.94
102.0-103.0	0.00	255.50	0.00	99.94	149.0-150.0	0.00	255.50	0.00	99.94
103.0-104.0	0.00	255.50	0.00	99.94	150.0-151.0	0.00	255.50	0.00	99.94
104.0-105.0	0.00	255.50	0.00	99.94	151.0-152.0	0.00	255.50	0.00	99.94
105.0-106.0	0.00	255.50	0.00	99.94	152.0-153.0	0.00	255.50	0.00	99.94
106.0-107.0	0.00	255.50	0.00	99.94	153.0-154.0	0.00	255.50	0.00	99.94
107.0-108.0	0.00	255.50	0.00	99.94	154.0-155.0	0.00	255.50	0.00	99.94
108.0-109.0	0.00	255.50	0.00	99.94	155.0-156.0	0.00	255.51	0.00	99.94
109.0-110.0	0.00	255.50	0.00	99.94	156.0-157.0	0.00	255.51	0.00	99.95
110.0-111.0	0.00	255.50	0.00	99.94	157.0-158.0	0.01	255.52	0.00	99.95
111.0-112.0	0.00	255.50	0.00	99.94	158.0-159.0	0.01	255.53	0.00	99.95
112.0-113.0	0.00	255.50	0.00	99.94	159.0-160.0	0.01	255.53	0.00	99.95
113.0-114.0	0.00	255.50	0.00	99.94	160.0-161.0	0.01	255.54	0.00	99.96
114.0-115.0	0.00	255.50	0.00	99.94	161.0-162.0	0.01	255.55	0.00	99.96
115.0-116.0	0.00	255.50	0.00	99.94	162.0-163.0	0.01	255.56	0.00	99.96
116.0-117.0	0.00	255.50	0.00	99.94	163.0-164.0	0.01	255.57	0.00	99.97
117.0-118.0	0.00	255.50	0.00	99.94	164.0-165.0	0.01	255.58	0.00	99.97
118.0-119.0	0.00	255.50	0.00	99.94	165.0-166.0	0.01	255.59	0.00	99.98
119.0-120.0	0.00	255.50	0.00	99.94	166.0-167.0	0.01	255.59	0.00	99.98
120.0-121.0	0.00	255.50	0.00	99.94	167.0-168.0	0.01	255.60	0.00	99.98
121.0-122.0	0.00	255.50	0.00	99.94	168.0-169.0	0.01	255.61	0.00	99.98
122.0-123.0	0.00	255.50	0.00	99.94	169.0-170.0	0.01	255.62	0.00	99.99
123.0-124.0	0.00	255.50	0.00	99.94	170.0-171.0	0.01	255.62	0.00	99.99
124.0-125.0	0.00	255.50	0.00	99.94	171.0-172.0	0.01	255.63	0.00	99.99
125.0-126.0	0.00	255.50	0.00	99.94	172.0-173.0	0.01	255.63	0.00	99.99
126.0-127.0	0.00	255.50	0.00	99.94	173.0-174.0	0.00	255.64	0.00	100.00
127.0-128.0	0.00	255.50	0.00	99.94	174.0-175.0	0.00	255.64	0.00	100.00
128.0-129.0	0.00	255.50	0.00	99.94	175.0-176.0	0.00	255.65	0.00	100.00
129.0-130.0	0.00	255.50	0.00	99.94	176.0-177.0	0.00	255.65	0.00	100.00
130.0-131.0	0.00	255.50	0.00	99.94	177.0-178.0	0.00	255.65	0.00	100.00
131.0-132.0	0.00	255.50	0.00	99.94	178.0-179.0	0.00	255.65	0.00	100.00
132.0-133.0	0.00	255.50	0.00	99.94	179.0-180.0	0.00	255.65	0.00	100.00
133.0-134.0	0.00	255.50	0.00	99.94					
134.0-135.0	0.00	255.50	0.00	99.94					
135.0-136.0	0.00	255.50	0.00	99.94					
136.0-137.0	0.00	255.50	0.00	99.94					
137.0-138.0	0.00	255.50	0.00	99.94					
138.0-139.0	0.00	255.50	0.00	99.94					
139.0-140.0	0.00	255.50	0.00	99.94					
140.0-141.0	0.00	255.50	0.00	99.94					

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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: 2023/09/25



Maximum Light Intensity(cd): 663.44
Maximum Cand.@Angle: H=0.9°,V=0.5°

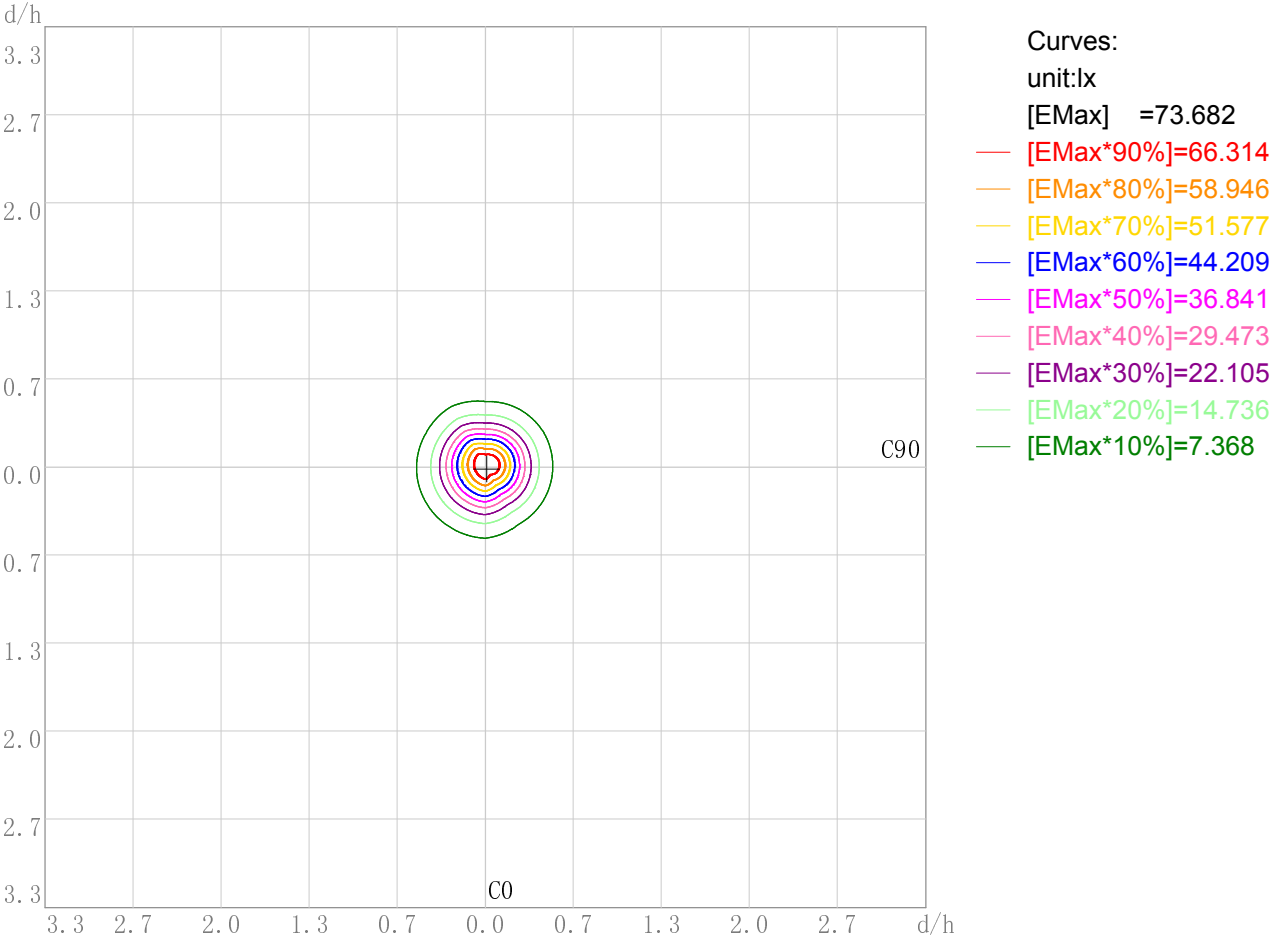
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Plane ISO-Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 73.68
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

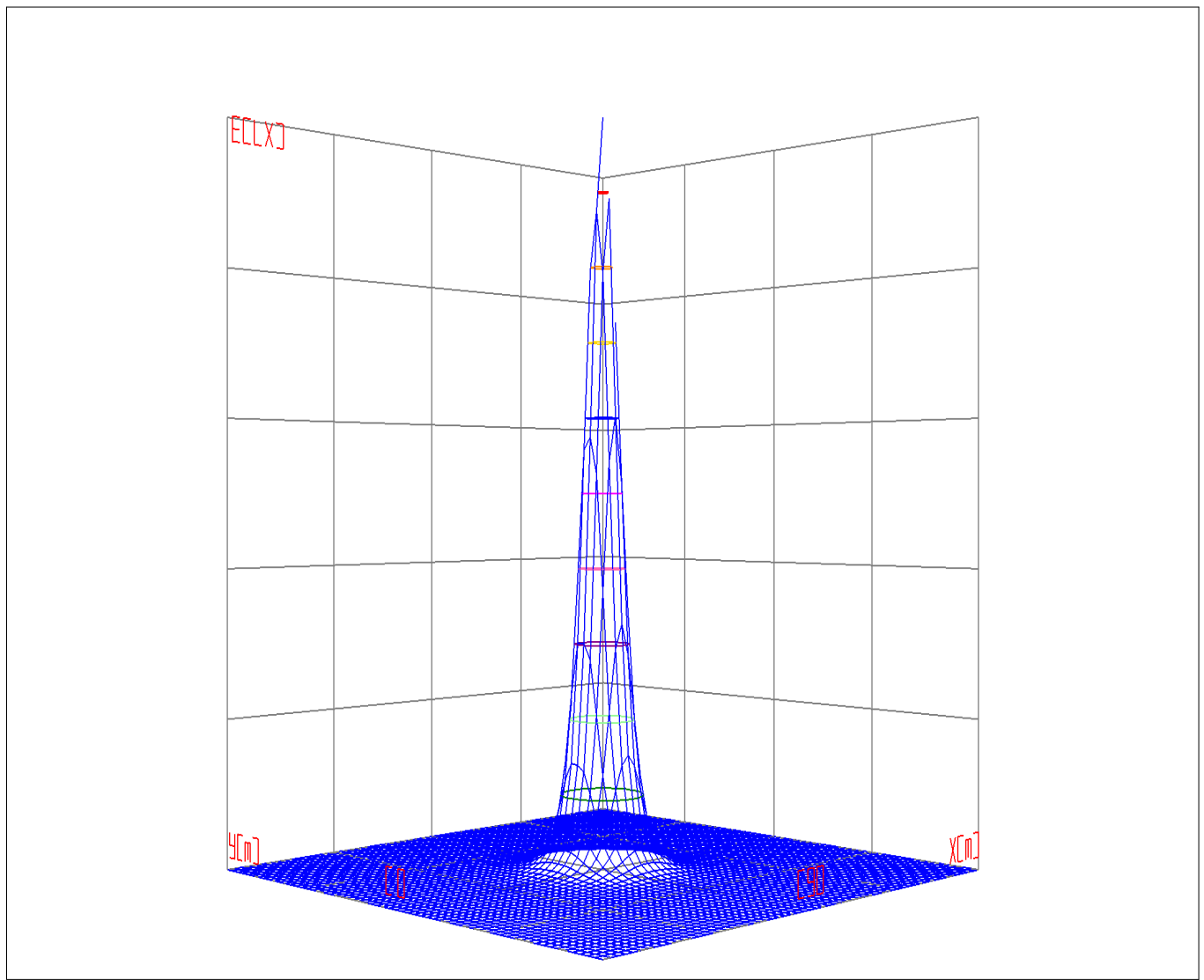
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3D Plane ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

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

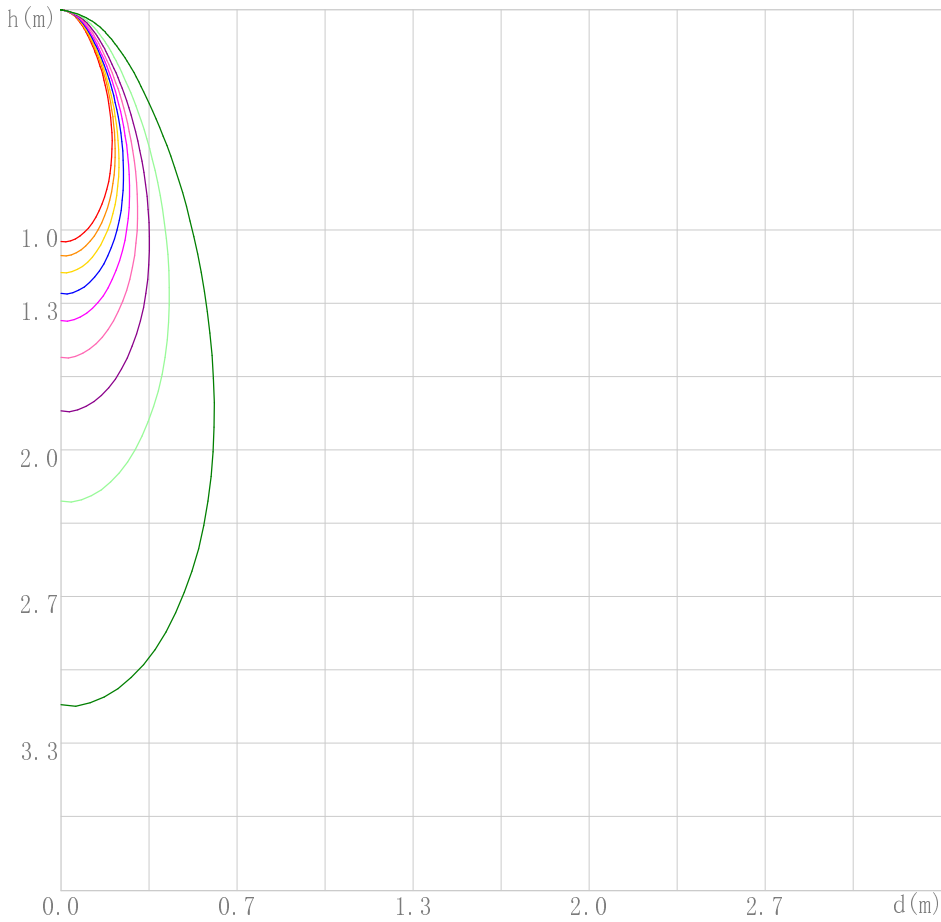
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Space ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/09/25

Space ISO Illuminance Curve



- Curves:
[Unit: lx]
[EMax] =659.385
- [EMax*90%]=593.446
 - [EMax*80%]=527.508
 - [EMax*70%]=461.569
 - [EMax*60%]=395.631
 - [EMax*50%]=329.692
 - [EMax*40%]=263.754
 - [EMax*30%]=197.815
 - [EMax*20%]=131.877
 - [EMax*10%]=65.938

Space Plane Maximum Illuminance and @Angle:659.38lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:659.686cd,0deg

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Indoor Luminance Limiting Curves

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

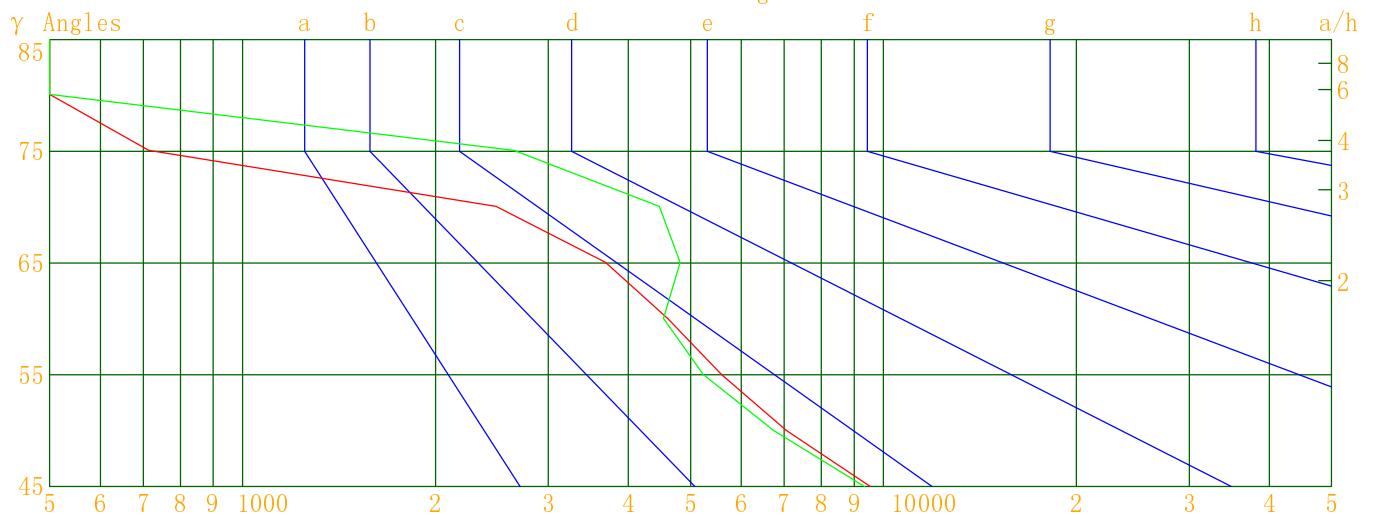
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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	9538	7052	5590	4605	3686	2485	714	0	0
C90	9342	6740	5235	4537	4819	4467	2653	0	0

Luminance Limiting Curve



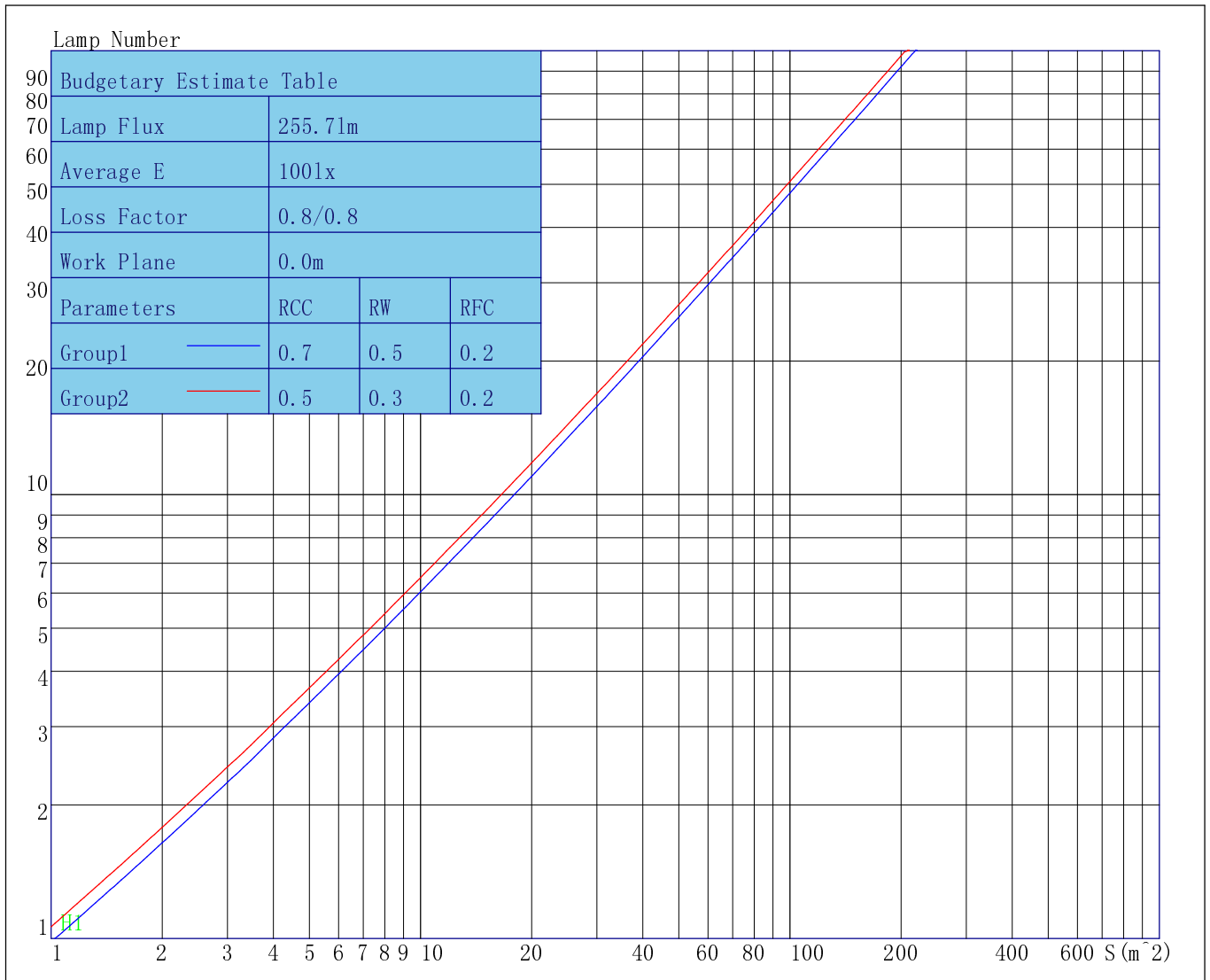
Luminous Size: Length(m)=-0.050 Width(m)=-0.050 Height(m)=0.000 Area(m^2)=0.001963
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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Indoor Budgetary Estimate Table

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2023/09/25



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

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Indoor Coefficient of Utilization Table

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

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	50	30	10	0
RCR	Coefficient of Utilization(%)																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71			
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68			
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65			
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	62			
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	68	64	61	60			

IES Indoor Report

Photometric Filename:OJL102 (WIDE) 3W.IES

Unified Glare Rating Table

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2023/09/25

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	14.6	15.6	14.9	15.9	16.2	14.5	15.5	14.9	15.8	16.1
Y=3H	14.9	15.8	15.3	16.1	16.5	15.1	16.0	15.5	16.3	16.7
Y=4H	14.9	15.7	15.3	16.0	16.4	15.2	16.0	15.6	16.3	16.7
Y=6H	14.8	15.5	15.2	15.9	16.3	15.1	15.8	15.5	16.2	16.6
Y=8H	14.7	15.4	15.1	15.8	16.2	15.0	15.7	15.5	16.1	16.5
Y=12H	14.6	15.3	15.1	15.7	16.1	15.0	15.6	15.4	16.0	16.5
X=4H Y=2H	14.7	15.5	15.1	15.9	16.3	14.6	15.4	15.0	15.8	16.2
Y=3H	15.2	15.9	15.6	16.3	16.7	15.3	15.9	15.7	16.3	16.8
Y=4H	15.2	15.8	15.6	16.2	16.7	15.4	16.0	15.8	16.4	16.8
Y=6H	15.1	15.6	15.6	16.0	16.5	15.3	15.8	15.8	16.2	16.7
Y=8H	15.0	15.5	15.5	15.9	16.4	15.2	15.7	15.7	16.1	16.6
Y=12H	15.0	15.4	15.4	15.9	16.3	15.1	15.6	15.6	16.0	16.5
X=8H Y=4H	15.1	15.6	15.6	16.1	16.5	15.3	15.8	15.8	16.2	16.7
Y=6H	15.0	15.4	15.5	15.9	16.4	15.2	15.6	15.7	16.1	16.6
Y=8H	14.9	15.3	15.5	15.8	16.3	15.1	15.4	15.6	16.0	16.5
Y=12H	14.9	15.2	15.4	15.7	16.3	15.1	15.3	15.6	15.8	16.4
X=12H Y=4H	15.1	15.5	15.6	16.0	16.4	15.2	15.6	15.7	16.1	16.6
Y=6H	15.0	15.3	15.5	15.8	16.3	15.1	15.4	15.7	15.9	16.5
Y=8H	14.9	15.2	15.4	15.7	16.3	15.1	15.3	15.6	15.8	16.4
Variations with the objerver position at spacings										
S=1.0H	3.2/-7.5					3.1/-9.0				
S=1.5H	3.7/-9.1					3.0/-6.9				
S=2.0H	3.6/-8.7					2.6/-6.1				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.7					0.8				

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

IES Indoor Report

Photometric Filename:OJL102 (WIDE) 3W.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	656.64	656.64	656.64	656.64	656.64	656.64	656.64	656.64	656.64	656.64	656.64	656.64
γ 1.0	659.69	663.44	662.79	657.39	648.32	636.92	657.00	655.94	654.24	653.33	651.21	649.11
γ 2.0	654.41	660.87	661.75	654.54	642.54	625.53	649.66	646.33	644.73	646.61	648.12	650.70
γ 3.0	644.62	653.72	655.60	647.81	633.62	611.64	638.96	633.01	631.42	635.98	641.33	648.30
γ 4.0	631.07	641.74	644.79	636.85	621.22	595.54	625.10	616.33	614.49	621.66	630.68	642.31
γ 5.0	613.38	626.08	630.82	621.95	604.80	576.38	608.38	597.31	594.96	604.65	616.98	632.62
γ 6.0	592.82	606.11	613.03	603.01	584.30	554.43	589.31	576.30	573.40	585.23	599.83	617.78
γ 7.0	569.02	584.05	591.22	581.21	560.61	530.67	568.35	554.38	550.68	563.04	579.31	598.72
γ 8.0	541.95	559.95	567.04	557.38	534.87	505.20	545.41	530.33	526.21	538.43	555.72	576.87
γ 9.0	513.10	533.52	540.54	530.47	508.59	478.23	521.01	504.45	500.57	512.68	529.69	552.04
γ 10.0	483.38	504.63	512.74	501.64	481.24	450.66	495.42	477.66	473.41	485.42	502.21	524.92
γ 11.0	453.08	473.62	483.34	471.32	452.59	422.49	468.23	450.13	445.88	457.91	473.19	496.32
γ 12.0	422.23	442.41	452.50	441.23	422.83	394.39	440.25	422.16	418.56	429.67	443.15	466.27
γ 13.0	390.69	410.33	421.04	410.89	393.62	366.39	412.90	394.11	391.08	401.47	413.52	435.23
γ 14.0	359.38	378.18	389.05	380.69	364.82	339.18	385.76	367.11	363.62	373.30	384.17	404.31
γ 15.0	328.80	346.46	357.92	350.28	337.18	312.65	358.64	340.56	336.55	344.71	355.02	374.17
γ 16.0	299.07	315.91	327.24	320.01	309.34	286.81	331.72	314.17	310.09	316.73	326.28	344.83
γ 17.0	270.64	287.05	297.64	291.03	281.79	261.64	305.43	288.43	284.46	289.89	298.28	316.32
γ 18.0	244.04	259.99	269.20	263.55	255.34	237.31	279.93	263.72	259.54	264.08	271.65	288.41
γ 19.0	218.87	234.00	242.11	237.61	230.20	214.76	255.39	239.99	235.81	239.19	246.66	261.24
γ 20.0	195.90	210.36	217.17	213.18	206.56	193.49	232.69	218.36	214.35	216.20	222.50	235.55
γ 21.0	174.61	188.44	194.06	190.47	184.88	173.87	211.48	198.13	194.45	195.39	200.01	211.77
γ 22.0	155.52	168.41	173.06	169.76	165.34	156.00	191.41	179.49	175.86	176.63	179.12	189.38
γ 23.0	138.29	149.52	153.87	151.10	147.00	139.69	172.48	161.77	158.39	158.90	159.71	168.86
γ 24.0	122.81	132.76	136.97	134.10	130.85	124.51	155.19	145.51	142.01	142.01	142.11	150.35
γ 25.0	108.83	117.86	121.77	119.07	115.87	111.16	139.08	130.35	127.08	126.68	126.12	133.51
γ 26.0	96.53	104.45	108.11	105.69	102.42	99.09	124.76	116.84	113.87	113.16	111.71	118.57
γ 27.0	85.74	92.79	95.95	93.77	90.95	88.07	111.37	104.57	101.85	101.20	99.26	105.24
γ 28.0	76.33	82.06	85.34	83.08	80.84	78.32	99.70	93.39	91.08	89.96	88.15	93.31
γ 29.0	67.78	72.69	75.82	73.54	71.99	69.72	89.00	83.51	81.24	80.00	77.87	82.89
γ 30.0	60.31	64.37	67.11	65.07	63.95	62.15	79.16	74.45	72.21	71.48	68.89	73.45
γ 31.0	53.71	57.04	59.78	57.70	57.28	55.40	70.26	66.43	64.48	63.69	61.19	65.18
γ 32.0	47.71	50.59	53.09	51.25	51.09	49.76	62.62	59.31	57.89	57.09	54.54	57.76
γ 33.0	42.51	44.77	47.10	45.71	45.98	44.63	56.03	53.28	52.11	51.01	48.79	51.35
γ 34.0	38.07	39.78	42.05	40.85	41.70	40.23	50.42	47.72	47.04	45.83	43.82	45.77
γ 35.0	34.09	35.37	37.58	36.31	37.64	36.49	45.18	42.94	42.63	41.15	39.53	40.86
γ 36.0	30.56	31.41	33.46	32.39	34.02	33.01	40.67	38.75	38.80	37.28	35.37	36.72
γ 37.0	27.39	28.08	29.88	28.94	30.73	29.77	36.88	35.33	35.23	33.71	32.20	32.92
γ 38.0	24.68	25.13	27.02	25.90	27.82	26.92	33.40	32.00	32.17	30.42	29.12	29.58
γ 39.0	22.38	22.76	24.46	23.28	25.35	24.39	30.46	29.13	29.28	27.64	26.53	26.70
γ 40.0	20.37	20.60	22.08	21.08	23.15	22.20	27.79	26.50	26.79	25.18	24.15	24.05
γ 41.0	18.65	18.64	19.96	19.06	21.10	20.15	25.36	24.20	24.59	22.84	21.94	21.80
γ 42.0	17.11	16.87	18.04	17.23	19.17	18.33	23.18	21.94	22.44	20.86	20.15	19.69
γ 43.0	15.75	15.36	16.26	15.57	17.55	16.79	21.55	20.11	20.70	18.98	18.51	17.94
γ 44.0	14.44	14.03	14.77	14.22	16.06	15.38	19.73	18.38	19.13	17.32	16.99	16.40
γ 45.0	13.24	12.90	13.47	12.97	14.67	14.09	18.21	16.87	17.50	15.94	15.40	14.92
γ 46.0	12.20	11.89	12.30	11.84	13.47	12.88	16.51	15.48	16.02	14.64	14.00	13.71

