

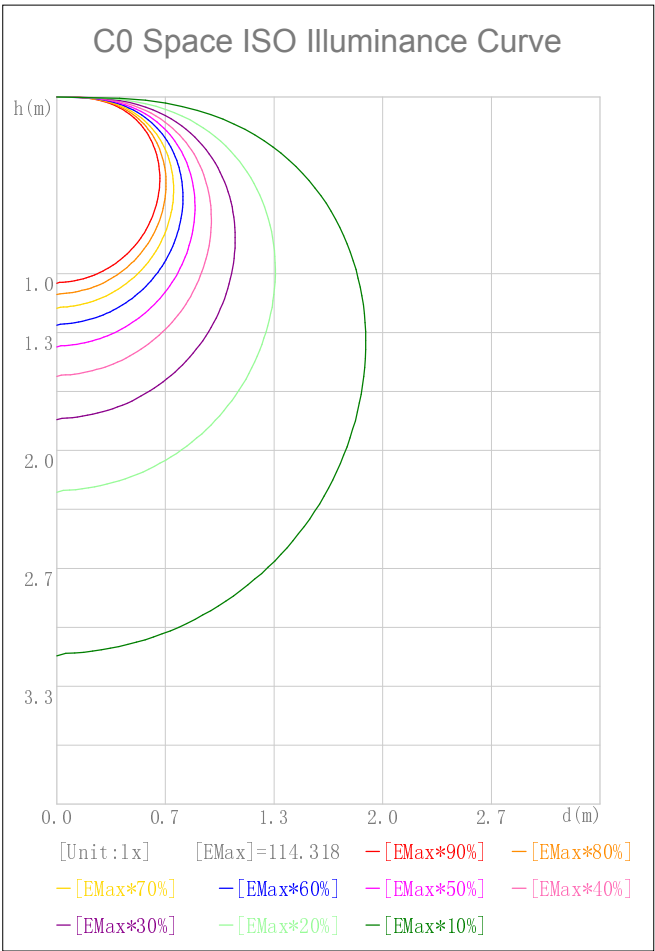
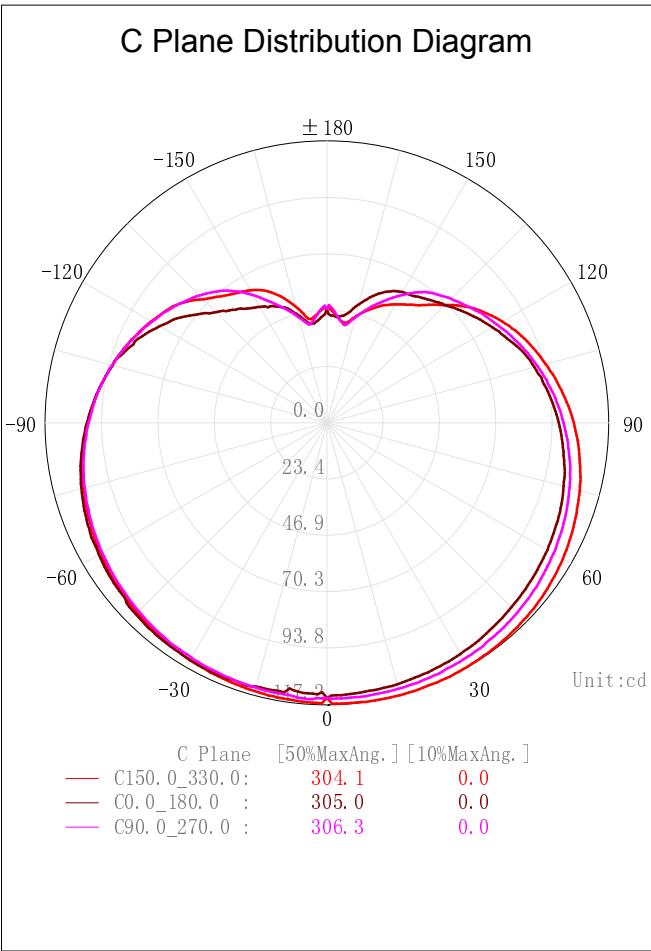
Indoor Luminaire Photometric Data

Description Information

Luminary Name: 55252		Lum. Catalog:	Test ID:
Lamp Name:		Lamp Catalog:	Test Date: 2021/06/22
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(%):

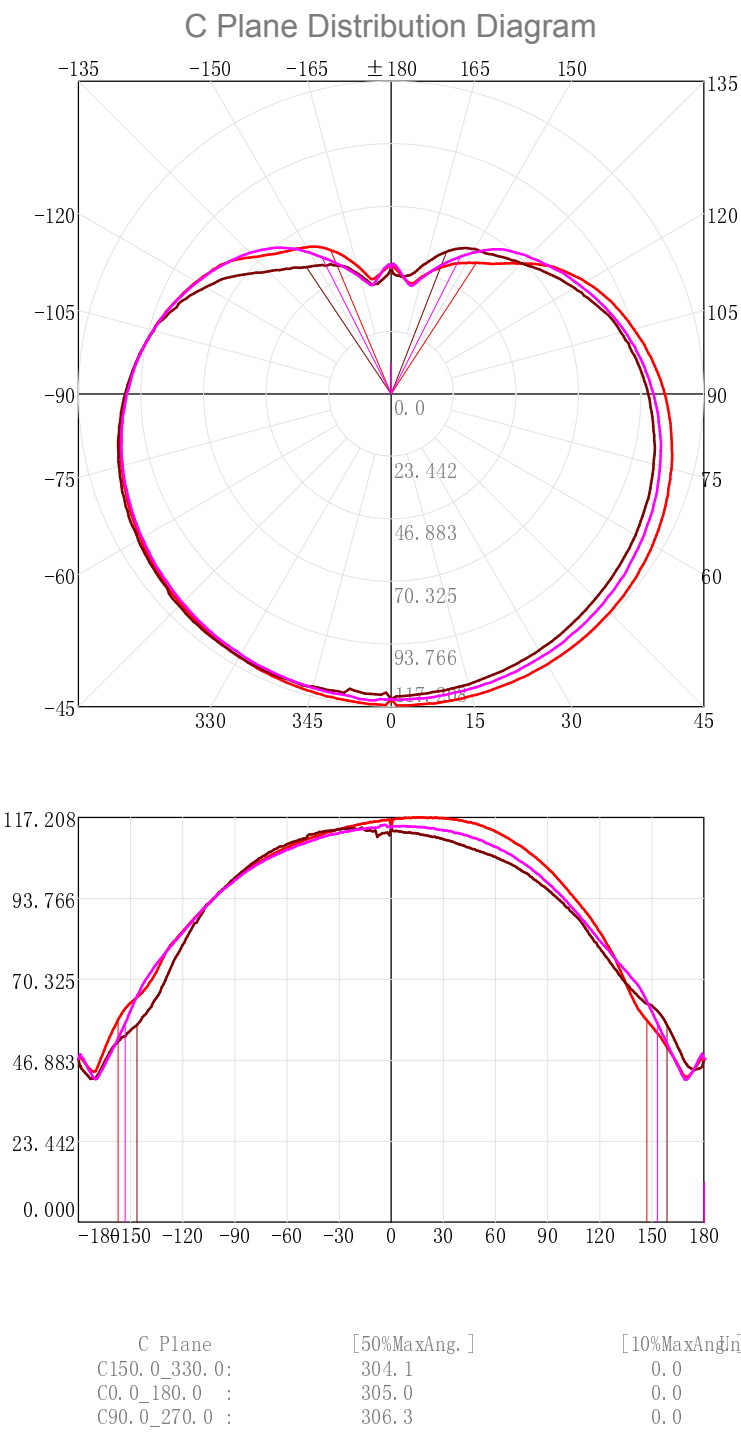
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1178.220	Luminary Flux(lm): 1178.220	Field Angle(10%Imax): 360.0(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 680.713lm 57.77%
Rated Voltage(V): 24	Luminary EER(lm/W): 83.979	Up Lumens&Percent: 497.506lm 42.23%
Tested Power(W): 14.030	Max. Candela(cd): 117.208	S/MH: C0_a180=1.500 C90_270=1.508
Lamps' Inside: 1	Max Cand@Ang. (°): C=150.0 γ=23.0	CIE Type: Semi-Indirect
Tested Electrics(V, A, pf):23.8, 0.590	Beam Angle(50%Imax): 304.1(°)	ErP Φ use(120°): 352.837lm
Lamp Size(W*L*H):0.050m*-0.050m*0.000m	Left=-157.1°, Right=147.1°	IRF(%): 82.437



2D Plane Light Intensity Distribution Curve

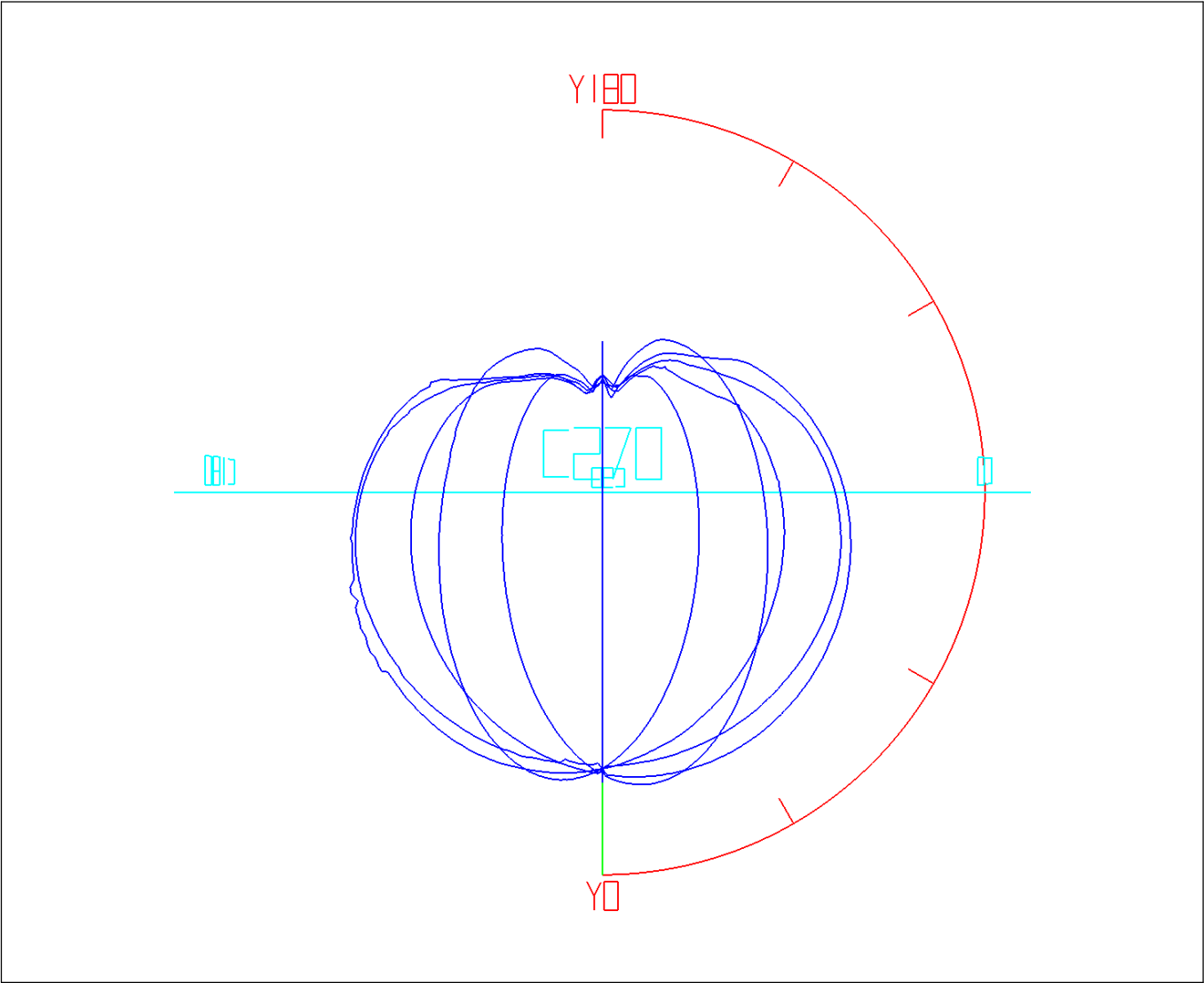
Lum. Name:55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date:2021/06/22



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: 2021/06/22

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

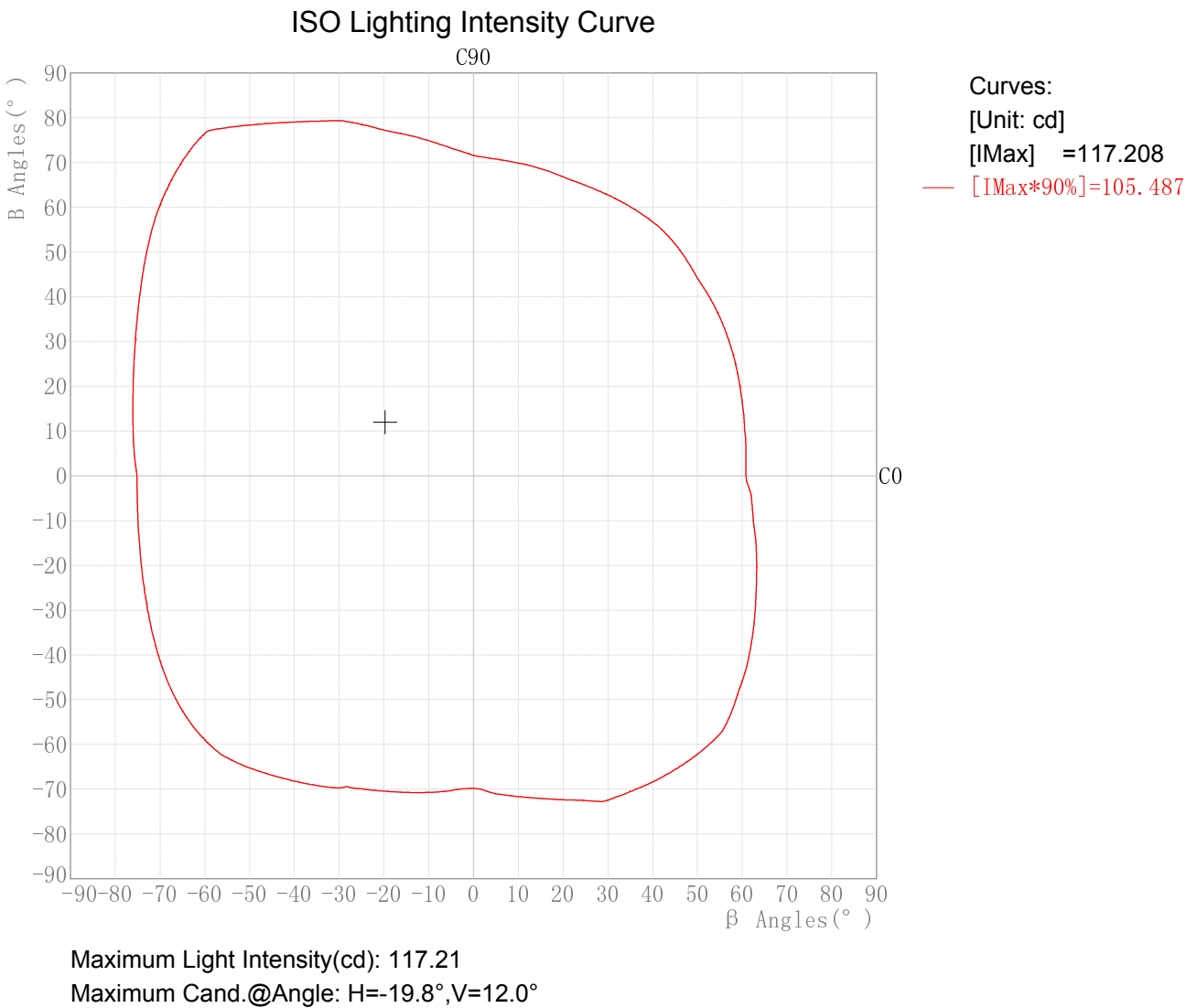
Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.11	0.11	0.01	0.01	47.0-48.0	9.00	235.40	0.76	19.98
1.0-2.0	0.33	0.44	0.03	0.04	48.0-49.0	9.13	244.53	0.77	20.75
2.0-3.0	0.55	0.99	0.05	0.08	49.0-50.0	9.25	253.78	0.79	21.54
3.0-4.0	0.77	1.76	0.07	0.15	50.0-51.0	9.37	263.15	0.80	22.33
4.0-5.0	0.99	2.75	0.08	0.23	51.0-52.0	9.49	272.64	0.81	23.14
5.0-6.0	1.21	3.96	0.10	0.34	52.0-53.0	9.61	282.25	0.82	23.96
6.0-7.0	1.43	5.38	0.12	0.46	53.0-54.0	9.72	291.96	0.82	24.78
7.0-8.0	1.64	7.02	0.14	0.60	54.0-55.0	9.83	301.79	0.83	25.61
8.0-9.0	1.86	8.88	0.16	0.75	55.0-56.0	9.94	311.72	0.84	26.46
9.0-10.0	2.08	10.96	0.18	0.93	56.0-57.0	10.03	321.76	0.85	27.31
10.0-11.0	2.29	13.25	0.19	1.12	57.0-58.0	10.13	331.88	0.86	28.17
11.0-12.0	2.51	15.76	0.21	1.34	58.0-59.0	10.22	342.10	0.87	29.04
12.0-13.0	2.72	18.49	0.23	1.57	59.0-60.0	10.31	352.41	0.87	29.91
13.0-14.0	2.94	21.42	0.25	1.82	60.0-61.0	10.39	362.80	0.88	30.79
14.0-15.0	3.15	24.57	0.27	2.09	61.0-62.0	10.47	373.27	0.89	31.68
15.0-16.0	3.36	27.93	0.29	2.37	62.0-63.0	10.54	383.82	0.89	32.58
16.0-17.0	3.57	31.50	0.30	2.67	63.0-64.0	10.62	394.43	0.90	33.48
17.0-18.0	3.78	35.28	0.32	2.99	64.0-65.0	10.68	405.12	0.91	34.38
18.0-19.0	3.98	39.26	0.34	3.33	65.0-66.0	10.75	415.86	0.91	35.30
19.0-20.0	4.19	43.45	0.36	3.69	66.0-67.0	10.80	426.67	0.92	36.21
20.0-21.0	4.39	47.84	0.37	4.06	67.0-68.0	10.86	437.52	0.92	37.13
21.0-22.0	4.60	52.44	0.39	4.45	68.0-69.0	10.90	448.42	0.93	38.06
22.0-23.0	4.80	57.23	0.41	4.86	69.0-70.0	10.94	459.37	0.93	38.99
23.0-24.0	4.99	62.23	0.42	5.28	70.0-71.0	10.99	470.36	0.93	39.92
24.0-25.0	5.19	67.42	0.44	5.72	71.0-72.0	11.03	481.39	0.94	40.86
25.0-26.0	5.39	72.80	0.46	6.18	72.0-73.0	11.05	492.44	0.94	41.80
26.0-27.0	5.58	78.38	0.47	6.65	73.0-74.0	11.07	503.51	0.94	42.73
27.0-28.0	5.77	84.15	0.49	7.14	74.0-75.0	11.09	514.61	0.94	43.68
28.0-29.0	5.95	90.10	0.51	7.65	75.0-76.0	11.11	525.72	0.94	44.62
29.0-30.0	6.14	96.24	0.52	8.17	76.0-77.0	11.13	536.84	0.94	45.56
30.0-31.0	6.32	102.57	0.54	8.71	77.0-78.0	11.14	547.98	0.95	46.51
31.0-32.0	6.50	109.07	0.55	9.26	78.0-79.0	11.14	559.12	0.95	47.45
32.0-33.0	6.68	115.75	0.57	9.82	79.0-80.0	11.14	570.27	0.95	48.40
33.0-34.0	6.86	122.61	0.58	10.41	80.0-81.0	11.14	581.40	0.95	49.35
34.0-35.0	7.03	129.64	0.60	11.00	81.0-82.0	11.13	592.53	0.94	50.29
35.0-36.0	7.20	136.84	0.61	11.61	82.0-83.0	11.11	603.65	0.94	51.23
36.0-37.0	7.37	144.21	0.63	12.24	83.0-84.0	11.10	614.74	0.94	52.18
37.0-38.0	7.53	151.74	0.64	12.88	84.0-85.0	11.07	625.82	0.94	53.12
38.0-39.0	7.69	159.43	0.65	13.53	85.0-86.0	11.05	636.87	0.94	54.05
39.0-40.0	7.85	167.28	0.67	14.20	86.0-87.0	11.02	647.89	0.94	54.99
40.0-41.0	8.01	175.29	0.68	14.88	87.0-88.0	10.98	658.87	0.93	55.92
41.0-42.0	8.16	183.44	0.69	15.57	88.0-89.0	10.94	669.81	0.93	56.85
42.0-43.0	8.31	191.75	0.70	16.27	89.0-90.0	10.90	680.71	0.93	57.77
43.0-44.0	8.45	200.20	0.72	16.99	90.0-91.0	10.85	691.57	0.92	58.70
44.0-45.0	8.59	208.79	0.73	17.72	91.0-92.0	10.80	702.37	0.92	59.61
45.0-46.0	8.73	217.53	0.74	18.46	92.0-93.0	10.75	713.12	0.91	60.53
46.0-47.0	8.87	226.40	0.75	19.22	93.0-94.0	10.69	723.81	0.91	61.43

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	10.62	734.43	0.90	62.33	141.0-142.0	4.51	1103.74	0.38	93.68
95.0-96.0	10.55	744.98	0.90	63.23	142.0-143.0	4.36	1108.10	0.37	94.05
96.0-97.0	10.48	755.46	0.89	64.12	143.0-144.0	4.21	1112.31	0.36	94.41
97.0-98.0	10.41	765.87	0.88	65.00	144.0-145.0	4.07	1116.38	0.35	94.75
98.0-99.0	10.33	776.21	0.88	65.88	145.0-146.0	3.92	1120.30	0.33	95.08
99.0-100.0	10.25	786.45	0.87	66.75	146.0-147.0	3.78	1124.08	0.32	95.40
100.0-101.0	10.16	796.62	0.86	67.61	147.0-148.0	3.63	1127.71	0.31	95.71
101.0-102.0	10.08	806.70	0.86	68.47	148.0-149.0	3.49	1131.20	0.30	96.01
102.0-103.0	9.99	816.68	0.85	69.32	149.0-150.0	3.35	1134.55	0.28	96.29
103.0-104.0	9.89	826.57	0.84	70.15	150.0-151.0	3.21	1137.77	0.27	96.57
104.0-105.0	9.79	836.36	0.83	70.99	151.0-152.0	3.07	1140.84	0.26	96.83
105.0-106.0	9.69	846.05	0.82	71.81	152.0-153.0	2.93	1143.77	0.25	97.08
106.0-107.0	9.59	855.64	0.81	72.62	153.0-154.0	2.80	1146.57	0.24	97.31
107.0-108.0	9.48	865.12	0.80	73.43	154.0-155.0	2.67	1149.24	0.23	97.54
108.0-109.0	9.36	874.48	0.79	74.22	155.0-156.0	2.53	1151.77	0.21	97.76
109.0-110.0	9.24	883.72	0.78	75.01	156.0-157.0	2.40	1154.17	0.20	97.96
110.0-111.0	9.12	892.85	0.77	75.78	157.0-158.0	2.26	1156.43	0.19	98.15
111.0-112.0	9.00	901.85	0.76	76.54	158.0-159.0	2.13	1158.57	0.18	98.33
112.0-113.0	8.88	910.72	0.75	77.30	159.0-160.0	2.00	1160.57	0.17	98.50
113.0-114.0	8.75	919.47	0.74	78.04	160.0-161.0	1.88	1162.45	0.16	98.66
114.0-115.0	8.61	928.08	0.73	78.77	161.0-162.0	1.75	1164.20	0.15	98.81
115.0-116.0	8.48	936.57	0.72	79.49	162.0-163.0	1.63	1165.83	0.14	98.95
116.0-117.0	8.34	944.91	0.71	80.20	163.0-164.0	1.51	1167.33	0.13	99.08
117.0-118.0	8.20	953.11	0.70	80.89	164.0-165.0	1.39	1168.72	0.12	99.19
118.0-119.0	8.07	961.18	0.68	81.58	165.0-166.0	1.28	1170.00	0.11	99.30
119.0-120.0	7.93	969.11	0.67	82.25	166.0-167.0	1.16	1171.16	0.10	99.40
120.0-121.0	7.77	976.88	0.66	82.91	167.0-168.0	1.05	1172.22	0.09	99.49
121.0-122.0	7.62	984.50	0.65	83.56	168.0-169.0	0.95	1173.17	0.08	99.57
122.0-123.0	7.46	991.95	0.63	84.19	169.0-170.0	0.86	1174.02	0.07	99.64
123.0-124.0	7.30	999.25	0.62	84.81	170.0-171.0	0.77	1174.80	0.07	99.71
124.0-125.0	7.14	1006.40	0.61	85.42	171.0-172.0	0.70	1175.49	0.06	99.77
125.0-126.0	6.98	1013.38	0.59	86.01	172.0-173.0	0.62	1176.12	0.05	99.82
126.0-127.0	6.82	1020.20	0.58	86.59	173.0-174.0	0.54	1176.66	0.05	99.87
127.0-128.0	6.66	1026.87	0.57	87.15	174.0-175.0	0.47	1177.13	0.04	99.91
128.0-129.0	6.50	1033.37	0.55	87.71	175.0-176.0	0.39	1177.51	0.03	99.94
129.0-130.0	6.35	1039.71	0.54	88.24	176.0-177.0	0.31	1177.82	0.03	99.97
130.0-131.0	6.19	1045.90	0.53	88.77	177.0-178.0	0.22	1178.04	0.02	99.98
131.0-132.0	6.03	1051.93	0.51	89.28	178.0-179.0	0.13	1178.17	0.01	100.00
132.0-133.0	5.87	1057.80	0.50	89.78	179.0-180.0	0.05	1178.22	0.00	100.00
133.0-134.0	5.71	1063.52	0.48	90.26					
134.0-135.0	5.56	1069.07	0.47	90.74					
135.0-136.0	5.40	1074.48	0.46	91.19					
136.0-137.0	5.25	1079.73	0.45	91.64					
137.0-138.0	5.10	1084.83	0.43	92.07					
138.0-139.0	4.95	1089.78	0.42	92.49					
139.0-140.0	4.80	1094.58	0.41	92.90					
140.0-141.0	4.65	1099.23	0.39	93.30					

Rectangle ISO Lighting Intensity Diagram

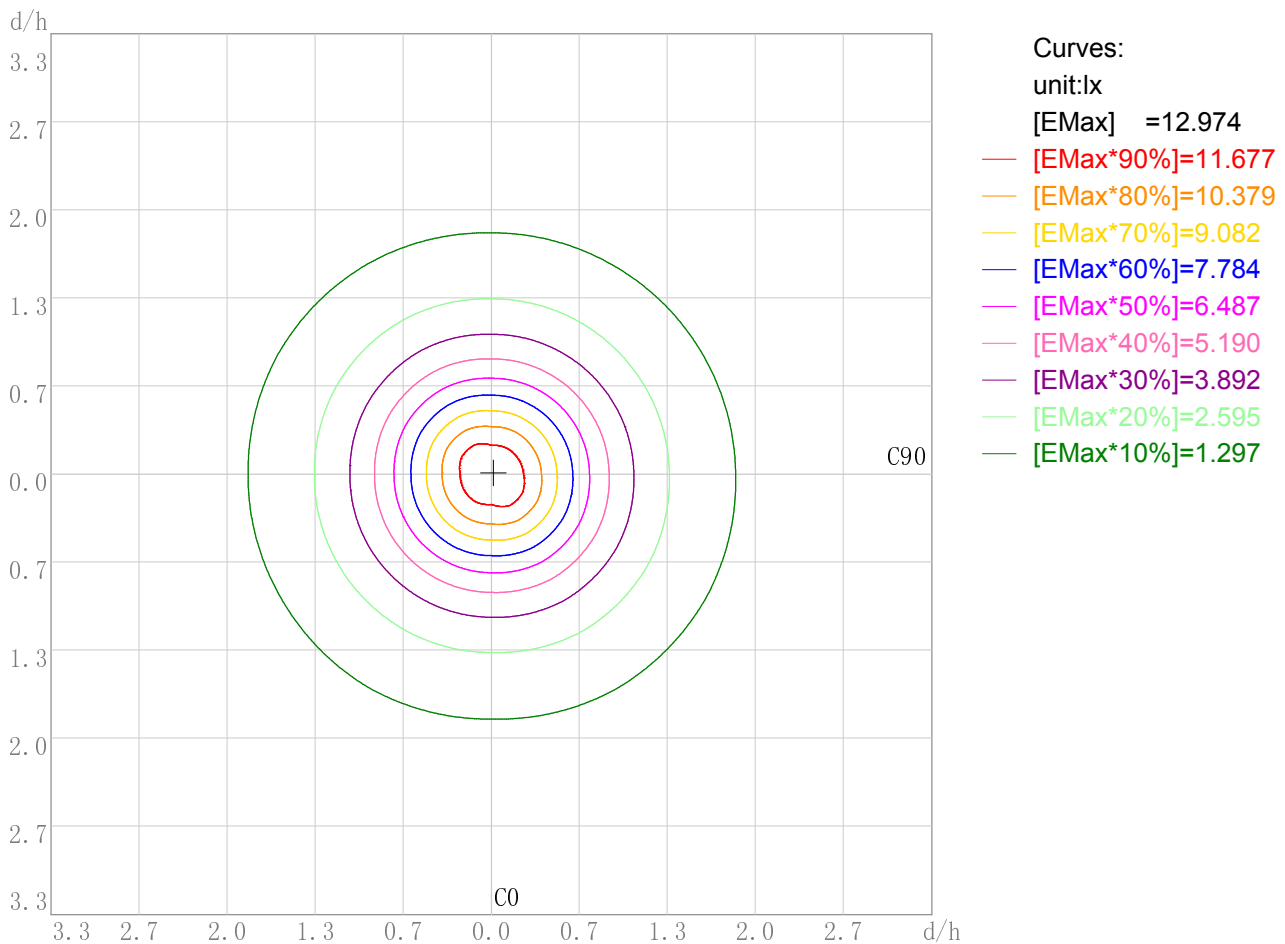
Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22



### Plane ISO-Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22

Plane ISO-Illuminance Curve

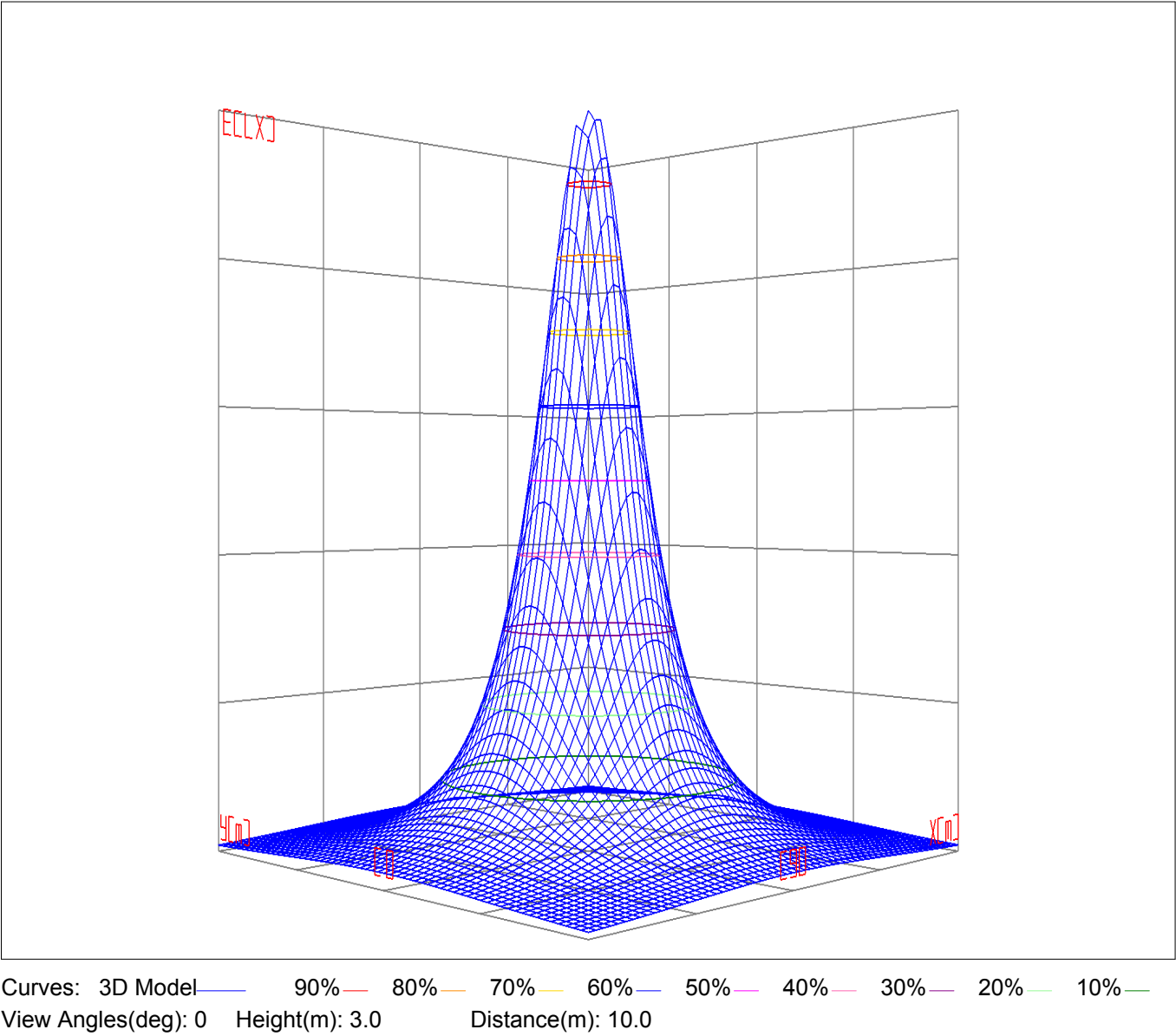


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 12.97  
Working Plane Maximum Illuminance Position(d/h):H0.0 V-0.0

3D Plane ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catelog:	Test ID:
Lamp Name:	Lamp Catelog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22

3D Plane Illuminance Modal

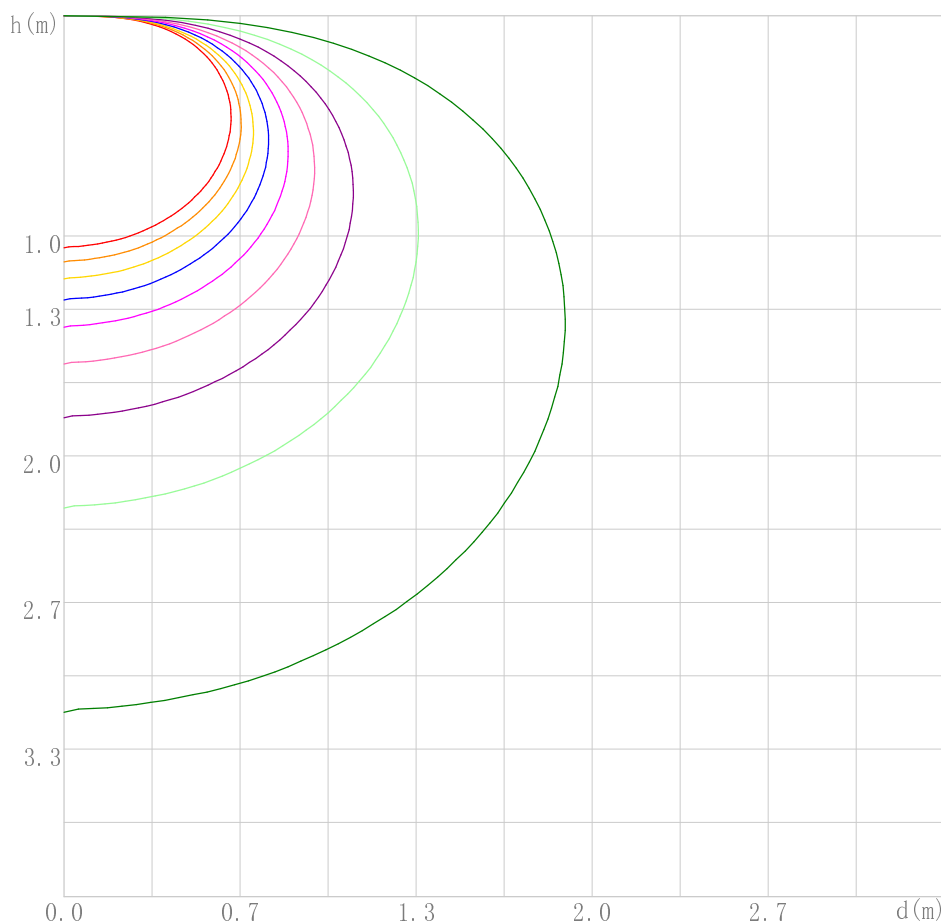




## Space ISO Illuminance Diagram

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22

Space ISO Illuminance Curve



Curves:

[Unit: lx]

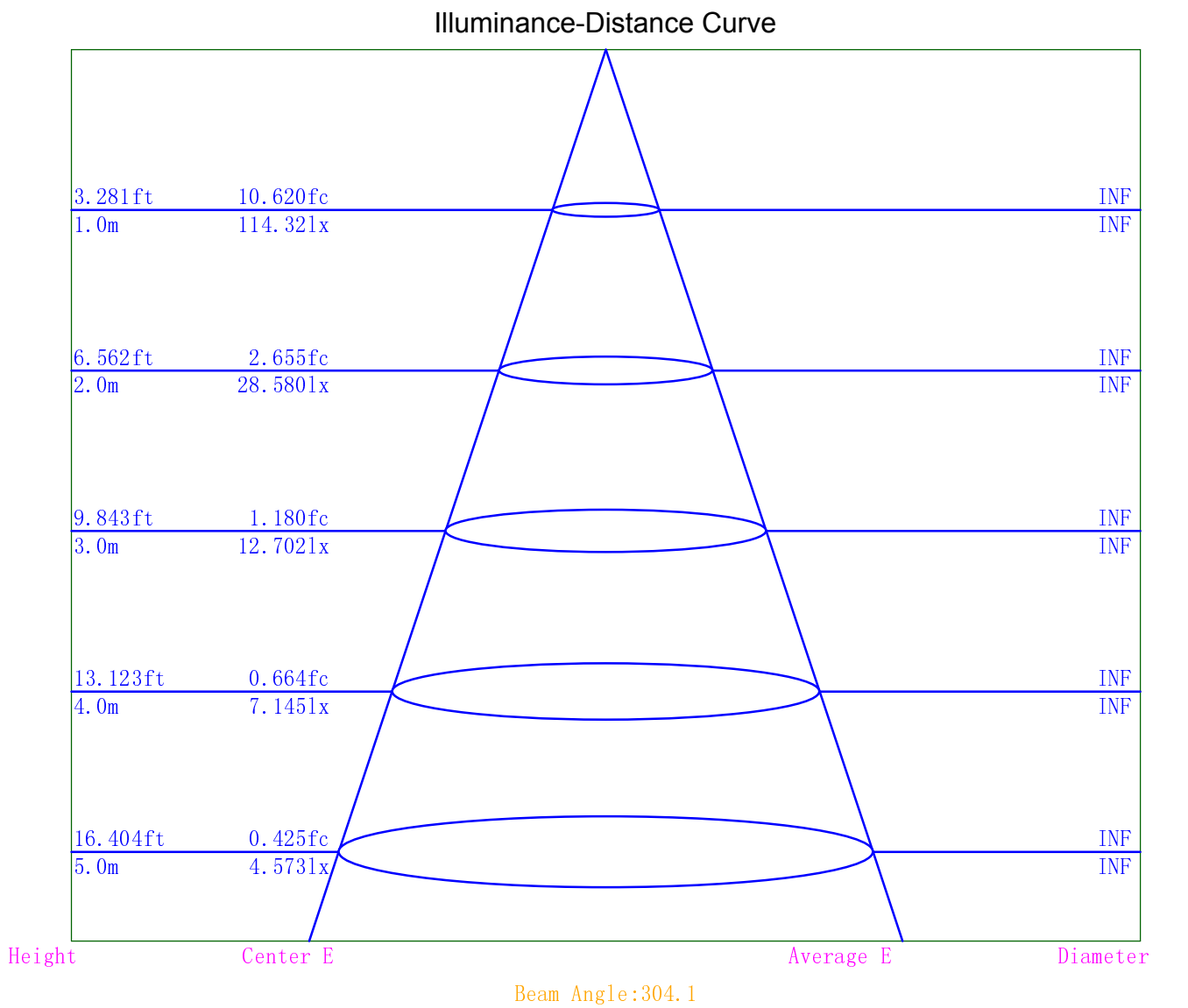
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- [EMax\*30%]=34.295
- [EMax\*20%]=22.864
- [EMax\*10%]=11.432

Space Plane Maximum Illuminance and @Angle:114.32lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:114.318cd,0deg

Illuminance-Distance Diagram

Lum. Name:55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22



Indoor Luminance Limiting Curves

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22

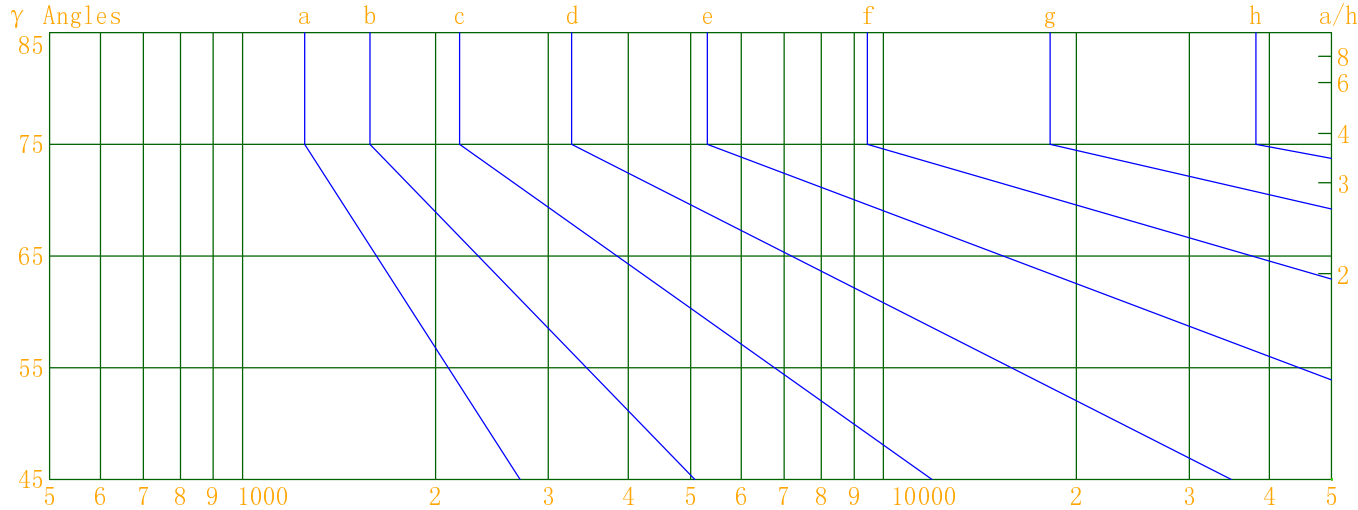
Glare Grade Table

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	78142	85266	94698	107772	126049	154004	200403	293702	574341
C90	80498	87857	97441	110726	129467	157930	205378	301014	587811

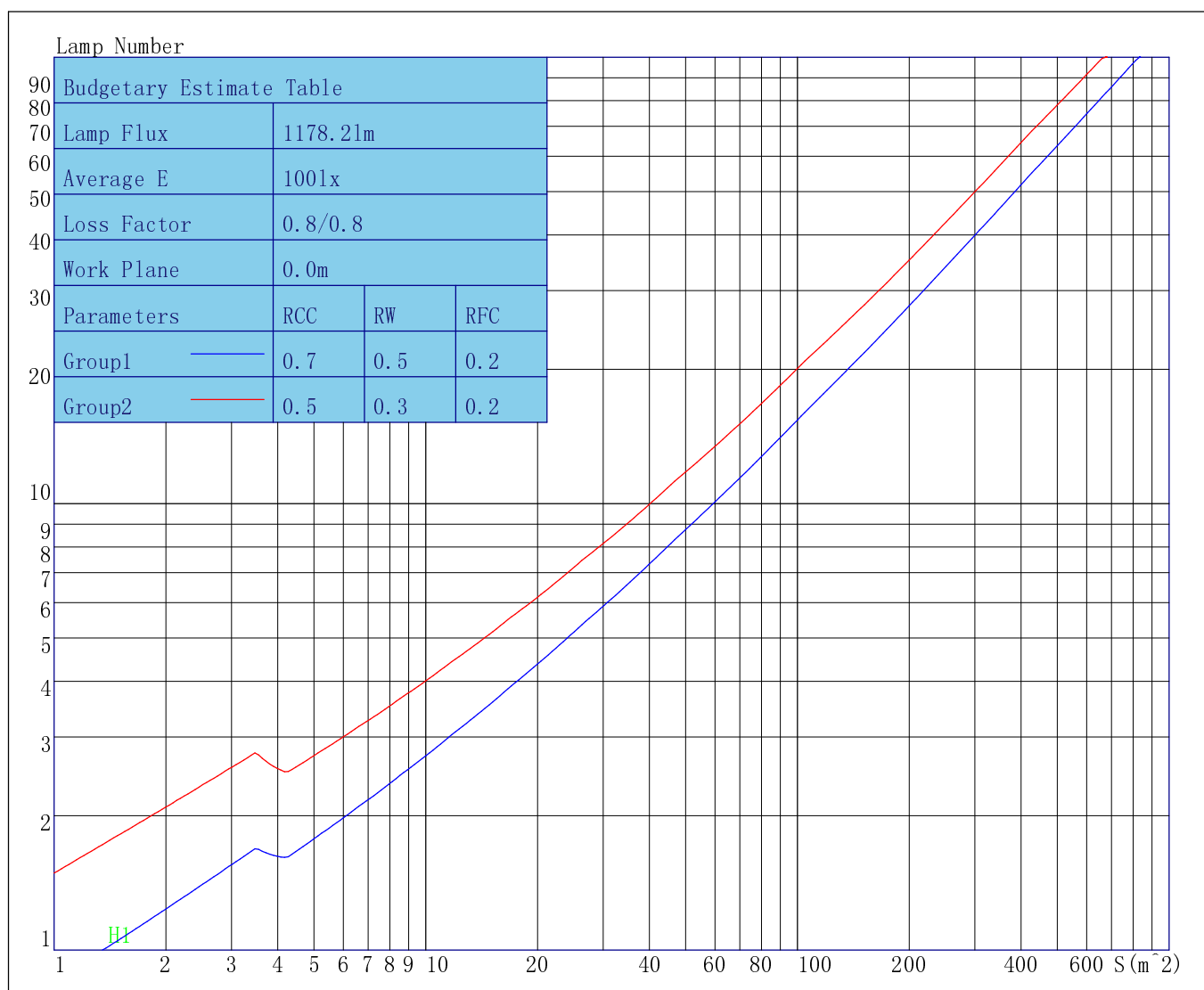
Luminance Limiting Curve



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: 2021/06/22



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: 2021/06/22

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	95	89	83	78	88	82	77	73	70	66	63	59	56	53	49	46	44	39
2	85	75	67	60	78	69	62	56	59	53	48	49	45	41	40	37	34	30
3	76	65	55	48	70	60	52	45	51	44	39	42	37	33	35	31	27	23
4	69	56	47	40	64	52	44	37	44	37	32	37	32	27	30	26	22	19
5	63	50	40	33	58	46	38	31	39	32	27	33	27	23	27	22	19	16
6	58	44	35	28	53	41	33	27	35	28	23	29	24	20	24	20	16	13
7	54	40	31	24	49	37	29	23	32	25	20	26	21	17	22	17	14	11
8	50	36	27	21	46	33	26	20	29	22	17	24	19	15	20	16	12	10
9	46	33	24	19	42	30	23	18	26	20	15	22	17	13	18	14	11	9
10	43	30	22	17	40	28	21	16	24	18	14	20	15	12	17	13	10	8

Unified Glare Rating Table

Lum. Name: 55252	Lum. Catalog:	Test ID:
Lamp Name:	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2021/06/22

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	24.9	26.0	25.8	26.9	28.1	25.1	26.2	26.0	27.1	28.2
	Y=3H	28.1	29.1	29.0	30.0	31.2	28.3	29.3	29.2	30.2	31.4
	Y=4H	29.9	30.9	30.8	31.8	33.0	30.1	31.1	31.0	32.0	33.1
	Y=6H	32.0	32.8	32.8	33.8	35.0	32.1	33.0	33.0	33.9	35.1
	Y=8H	33.1	33.9	34.0	34.9	36.0	33.2	34.1	34.1	35.0	36.2
	Y=12H	34.3	35.2	35.3	36.1	37.3	34.5	35.3	35.4	36.3	37.5
X=4H	Y=2H	26.1	27.1	27.0	28.0	29.2	26.3	27.2	27.2	28.2	29.3
	Y=3H	29.5	30.3	30.4	31.3	32.5	29.7	30.5	30.6	31.4	32.6
	Y=4H	31.4	32.2	32.4	33.2	34.4	31.6	32.4	32.5	33.3	34.5
	Y=6H	33.6	34.3	34.5	35.3	36.5	33.8	34.5	34.7	35.4	36.6
	Y=8H	34.8	35.5	35.7	36.4	37.7	35.0	35.6	35.9	36.6	37.8
	Y=12H	36.2	36.8	37.1	37.8	39.0	36.4	36.9	37.3	37.9	39.2
X=8H	Y=4H	32.3	32.9	33.2	33.9	35.1	32.4	33.1	33.4	34.0	35.3
	Y=6H	34.7	35.3	35.7	36.3	37.6	34.9	35.4	35.8	36.4	37.8
	Y=8H	36.1	36.6	37.1	37.6	38.8	36.3	36.8	37.2	37.7	39.0
	Y=12H	37.7	38.2	38.7	39.1	40.4	37.8	38.3	38.8	39.3	40.6
X=12H	Y=4H	32.5	33.1	33.5	34.1	35.3	32.7	33.3	33.6	34.2	35.5
	Y=6H	35.1	35.6	36.0	36.6	37.8	35.2	35.7	36.2	36.7	38.0
	Y=8H	36.6	37.0	37.5	38.0	39.3	36.7	37.2	37.7	38.2	39.4
Variations with the objverver position at spacings											
S=1.0H		0.1/-0.1					0.0/-0.0				
S=1.5H		0.1/-0.1					0.1/-0.2				
S=2.0H		0.2/-0.3					0.2/-0.3				
Reduced UGR Table:											
Nordic Standard Table:		BK0					BK0				
Correction Value		7.2					7.1				

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

IES Indoor Report

Photometric Filename:LL-0500-1500-A.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
γ 0. 0	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32	114. 32
γ 1. 0	113. 33	114. 31	114. 18	114. 64	116. 82	116. 69	111. 98	114. 40	114. 12	114. 54	116. 64	116. 59
γ 2. 0	113. 27	114. 35	114. 17	114. 67	116. 90	116. 76	112. 87	114. 37	114. 21	114. 44	116. 61	116. 52
γ 3. 0	113. 31	114. 27	114. 18	114. 65	116. 93	116. 85	112. 73	114. 51	114. 21	115. 01	116. 71	116. 41
γ 4. 0	113. 20	114. 22	114. 07	114. 66	116. 97	116. 84	112. 67	114. 55	114. 22	115. 06	116. 67	116. 48
γ 5. 0	113. 13	114. 10	114. 04	114. 57	117. 00	116. 87	112. 67	114. 51	114. 21	114. 85	116. 57	116. 34
γ 6. 0	113. 00	113. 92	113. 90	114. 67	116. 99	116. 92	112. 32	114. 55	114. 22	114. 91	116. 50	116. 27
γ 7. 0	112. 97	113. 82	113. 89	114. 68	117. 07	116. 91	112. 08	114. 45	114. 29	114. 41	116. 47	116. 11
γ 8. 0	112. 83	113. 66	113. 95	114. 73	116. 95	117. 10	111. 56	114. 54	114. 19	114. 21	116. 36	116. 06
γ 9. 0	112. 80	113. 76	113. 80	114. 59	117. 06	117. 05	113. 39	114. 61	114. 20	114. 20	116. 36	116. 01
γ 10. 0	112. 87	113. 54	113. 79	114. 58	117. 07	117. 07	113. 18	114. 55	114. 07	114. 18	116. 35	115. 98
γ 11. 0	112. 83	113. 55	113. 86	114. 48	117. 10	117. 06	113. 24	114. 51	114. 22	114. 23	116. 12	115. 80
γ 12. 0	112. 68	113. 30	113. 78	114. 49	117. 07	117. 15	113. 49	114. 55	114. 37	114. 18	116. 08	115. 91
γ 13. 0	112. 68	113. 37	113. 75	114. 50	117. 00	117. 17	113. 44	114. 41	114. 29	114. 11	116. 09	115. 66
γ 14. 0	112. 66	113. 17	113. 78	114. 49	117. 07	117. 15	113. 44	114. 40	114. 23	114. 03	116. 04	115. 66
γ 15. 0	112. 59	113. 18	113. 75	114. 41	117. 08	117. 18	113. 53	114. 38	114. 10	113. 96	115. 93	115. 43
γ 16. 0	112. 45	113. 19	113. 62	114. 44	117. 18	117. 21	113. 90	114. 37	114. 21	113. 87	115. 80	115. 48
γ 17. 0	112. 23	113. 25	113. 60	114. 41	117. 06	117. 19	114. 22	114. 37	114. 11	113. 83	115. 78	115. 35
γ 18. 0	112. 18	113. 19	113. 47	114. 30	116. 99	117. 20	113. 96	114. 31	114. 12	113. 76	115. 79	115. 13
γ 19. 0	112. 07	113. 03	113. 42	114. 40	117. 10	117. 14	113. 80	114. 25	114. 11	113. 70	115. 62	115. 14
γ 20. 0	112. 03	112. 95	113. 31	114. 26	117. 08	117. 12	113. 74	114. 19	113. 96	113. 65	115. 56	115. 03
γ 21. 0	111. 93	112. 93	113. 28	114. 15	117. 02	117. 07	113. 96	114. 26	113. 92	113. 48	115. 41	114. 87
γ 22. 0	111. 86	112. 75	113. 22	114. 17	116. 92	117. 07	114. 05	114. 24	113. 89	113. 47	115. 32	114. 71
γ 23. 0	111. 69	112. 70	113. 01	114. 06	116. 86	117. 21	114. 04	114. 33	113. 78	113. 39	115. 25	114. 69
γ 24. 0	111. 56	112. 50	113. 11	114. 12	116. 83	117. 07	114. 00	114. 28	113. 82	113. 22	115. 12	114. 50
γ 25. 0	111. 60	112. 24	112. 94	113. 92	116. 86	117. 12	114. 02	114. 16	113. 63	113. 17	115. 07	114. 56
γ 26. 0	111. 39	112. 06	112. 96	113. 74	116. 83	117. 20	113. 89	114. 22	113. 57	113. 16	114. 93	114. 33
γ 27. 0	111. 37	111. 85	112. 66	113. 72	116. 81	117. 04	114. 01	114. 01	113. 55	113. 06	114. 81	114. 14
γ 28. 0	111. 20	111. 76	112. 60	113. 63	116. 74	117. 03	113. 95	113. 99	113. 52	112. 88	114. 75	114. 08
γ 29. 0	111. 11	111. 70	112. 58	113. 62	116. 74	116. 98	113. 74	113. 95	113. 33	112. 92	114. 59	113. 90
γ 30. 0	110. 91	111. 64	112. 41	113. 50	116. 59	117. 01	113. 77	113. 85	113. 30	112. 65	114. 50	113. 88
γ 31. 0	110. 71	111. 43	112. 32	113. 45	116. 60	116. 93	113. 66	113. 77	113. 06	112. 46	114. 39	113. 66
γ 32. 0	110. 67	111. 34	112. 16	113. 41	116. 54	116. 82	113. 53	113. 56	113. 16	112. 44	114. 18	113. 59
γ 33. 0	110. 55	111. 22	112. 00	113. 25	116. 52	116. 82	113. 49	113. 46	112. 96	112. 29	114. 07	113. 34
γ 34. 0	110. 35	111. 01	111. 95	113. 28	116. 39	116. 72	113. 41	113. 50	112. 82	112. 26	113. 93	113. 23
γ 35. 0	110. 28	110. 96	111. 93	113. 15	116. 37	116. 77	113. 40	113. 38	112. 72	112. 20	113. 76	113. 07
γ 36. 0	110. 10	110. 77	111. 76	112. 88	116. 28	116. 64	113. 30	113. 17	112. 49	112. 10	113. 74	113. 00
γ 37. 0	109. 82	110. 67	111. 53	112. 71	116. 08	116. 58	113. 28	113. 02	112. 45	111. 85	113. 61	112. 85
γ 38. 0	109. 68	110. 43	111. 36	112. 73	116. 04	116. 52	113. 19	112. 95	112. 36	111. 79	113. 45	112. 71
γ 39. 0	109. 45	110. 32	111. 14	112. 57	116. 03	116. 40	113. 11	112. 81	112. 11	111. 58	113. 27	112. 51
γ 40. 0	109. 34	110. 19	111. 10	112. 51	115. 83	116. 36	112. 93	112. 66	112. 02	111. 45	113. 03	112. 33
γ 41. 0	109. 12	109. 85	110. 89	112. 35	115. 78	116. 27	113. 02	112. 45	111. 99	111. 29	112. 89	112. 13
γ 42. 0	109. 02	109. 61	110. 86	112. 13	115. 68	116. 11	112. 77	112. 32	111. 81	111. 14	112. 79	111. 93
γ 43. 0	108. 72	109. 51	110. 62	112. 07	115. 47	116. 01	112. 67	112. 21	111. 75	110. 95	112. 55	111. 85
γ 44. 0	108. 55	109. 38	110. 49	111. 91	115. 36	115. 83	112. 40	112. 13	111. 49	110. 77	112. 44	111. 59
γ 45. 0	108. 49	109. 20	110. 29	111. 76	115. 20	115. 81	112. 36	111. 98	111. 46	110. 61	112. 15	111. 53
γ 46. 0	108. 21	109. 08	110. 13	111. 52	115. 11	115. 78	112. 31	111. 82	111. 25	110. 46	112. 04	111. 27

**IES Indoor Report**  
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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 47. 0	108. 06	108. 76	109. 97	111. 29	115. 06	115. 56	112. 27	111. 70	111. 12	110. 24	111. 85	111. 16
γ 48. 0	108. 01	108. 70	109. 78	111. 26	114. 79	115. 49	111. 96	111. 63	110. 99	110. 09	111. 59	111. 03
γ 49. 0	107. 71	108. 47	109. 41	111. 09	114. 67	115. 34	111. 14	111. 40	110. 77	109. 88	111. 54	110. 73
γ 50. 0	107. 61	108. 57	109. 35	110. 89	114. 48	115. 13	111. 05	111. 13	110. 53	109. 64	111. 38	110. 61
γ 51. 0	107. 39	108. 02	109. 26	110. 65	114. 21	115. 01	110. 96	111. 06	110. 37	109. 55	111. 11	110. 39
γ 52. 0	107. 20	107. 76	108. 99	110. 64	114. 04	114. 82	110. 81	110. 77	110. 21	109. 37	110. 99	110. 27
γ 53. 0	107. 11	107. 75	108. 76	110. 34	113. 86	114. 70	110. 72	110. 76	110. 03	109. 24	110. 69	109. 98
γ 54. 0	106. 85	107. 44	108. 57	110. 01	113. 65	114. 43	110. 48	110. 51	109. 84	109. 12	110. 46	109. 77
γ 55. 0	106. 65	107. 34	108. 44	109. 74	113. 47	114. 15	110. 38	112. 03	109. 55	108. 76	110. 31	109. 57
γ 56. 0	106. 46	107. 15	108. 22	109. 61	113. 30	114. 10	110. 19	111. 86	109. 47	108. 63	110. 09	109. 38
γ 57. 0	106. 36	106. 83	107. 85	109. 29	112. 92	113. 85	110. 05	111. 35	109. 16	108. 33	109. 86	109. 25
γ 58. 0	106. 14	106. 59	107. 71	109. 19	112. 74	113. 61	109. 78	111. 04	108. 98	108. 17	109. 65	108. 94
γ 59. 0	105. 88	106. 22	107. 49	108. 87	112. 56	113. 51	109. 66	111. 52	108. 83	107. 96	109. 53	108. 70
γ 60. 0	105. 81	106. 07	107. 25	108. 71	112. 23	113. 16	109. 46	111. 29	108. 45	107. 82	109. 22	108. 39
γ 61. 0	105. 42	105. 80	107. 00	108. 55	112. 10	112. 93	109. 10	110. 94	108. 38	107. 64	109. 03	108. 20
γ 62. 0	105. 31	105. 60	106. 81	108. 19	111. 92	112. 66	108. 88	110. 19	108. 18	107. 34	108. 86	108. 02
γ 63. 0	104. 97	105. 38	106. 51	107. 89	111. 71	112. 43	108. 87	110. 30	107. 92	107. 15	108. 60	107. 83
γ 64. 0	104. 82	105. 21	106. 26	107. 69	111. 25	112. 07	108. 75	110. 35	107. 68	106. 87	108. 35	107. 56
γ 65. 0	104. 60	105. 05	106. 03	107. 43	111. 10	111. 84	108. 48	109. 86	107. 42	106. 68	108. 12	107. 29
γ 66. 0	104. 33	104. 71	105. 78	107. 24	110. 76	111. 60	108. 12	109. 47	107. 18	106. 55	107. 86	107. 10
γ 67. 0	104. 15	104. 37	105. 50	106. 87	110. 39	111. 26	107. 99	109. 35	107. 04	106. 22	107. 51	106. 84
γ 68. 0	103. 96	104. 20	105. 14	106. 61	110. 06	110. 98	107. 67	108. 89	106. 62	105. 99	107. 42	106. 57
γ 69. 0	103. 73	104. 00	104. 91	106. 36	109. 80	110. 62	107. 32	107. 24	106. 51	105. 79	107. 13	106. 33
γ 70. 0	103. 42	103. 71	104. 67	106. 06	109. 43	110. 38	107. 19	108. 19	106. 21	105. 40	106. 90	106. 01
γ 71. 0	103. 09	103. 43	104. 34	105. 65	109. 17	109. 93	106. 85	108. 66	105. 93	105. 28	106. 58	105. 80
γ 72. 0	102. 84	103. 07	104. 00	105. 35	108. 76	109. 65	106. 48	108. 22	105. 49	105. 05	106. 28	105. 53
γ 73. 0	102. 51	102. 71	103. 64	104. 98	108. 44	109. 42	106. 20	106. 21	105. 30	104. 69	106. 04	105. 11
γ 74. 0	102. 18	102. 52	103. 47	104. 65	108. 13	109. 01	105. 88	105. 80	104. 94	104. 42	105. 71	104. 87
γ 75. 0	101. 84	102. 21	103. 09	104. 37	107. 71	108. 82	105. 52	105. 52	104. 70	104. 18	105. 49	104. 61
γ 76. 0	101. 49	101. 91	102. 72	104. 04	107. 37	108. 37	105. 33	105. 13	104. 30	103. 90	105. 17	104. 34
γ 77. 0	101. 28	101. 57	102. 49	103. 71	106. 91	108. 08	104. 92	104. 86	103. 94	103. 62	104. 87	104. 07
γ 78. 0	101. 01	101. 36	102. 06	103. 31	106. 49	107. 66	104. 51	104. 51	103. 70	103. 27	104. 58	103. 73
γ 79. 0	100. 72	101. 08	101. 72	102. 96	106. 19	107. 19	104. 24	104. 12	103. 33	102. 98	104. 28	103. 42
γ 80. 0	100. 14	100. 71	101. 39	102. 63	105. 82	106. 85	103. 89	103. 78	102. 98	102. 62	103. 93	103. 11
γ 81. 0	99. 86	100. 22	100. 93	102. 19	105. 38	106. 42	103. 45	104. 10	102. 71	102. 33	103. 59	102. 71
γ 82. 0	99. 35	99. 94	100. 51	101. 76	104. 94	106. 06	103. 00	103. 22	102. 45	102. 00	103. 26	102. 36
γ 83. 0	99. 03	99. 49	100. 26	101. 34	104. 50	105. 68	102. 69	102. 81	102. 06	101. 61	102. 93	102. 13
γ 84. 0	98. 64	99. 12	99. 74	100. 86	104. 16	105. 26	102. 16	102. 39	101. 64	101. 24	102. 61	101. 76
γ 85. 0	98. 29	98. 72	99. 40	100. 59	103. 73	104. 80	101. 77	102. 16	101. 31	100. 98	102. 33	101. 35
γ 86. 0	97. 85	98. 34	98. 96	100. 15	103. 27	104. 40	101. 48	101. 70	100. 88	100. 50	101. 83	100. 96
γ 87. 0	97. 47	98. 01	98. 52	99. 72	102. 72	103. 97	101. 04	101. 28	100. 55	100. 12	101. 44	100. 64
γ 88. 0	97. 16	97. 54	98. 13	99. 18	102. 19	103. 49	100. 54	100. 80	100. 14	99. 79	101. 08	100. 25
γ 89. 0	96. 80	97. 12	97. 73	98. 75	101. 76	103. 04	100. 18	100. 50	99. 82	99. 36	100. 71	99. 83
γ 90. 0	96. 33	96. 79	97. 40	98. 34	101. 31	102. 54	99. 68	100. 00	99. 31	99. 04	100. 27	99. 43
γ 91. 0	95. 94	96. 35	96. 87	97. 82	100. 81	102. 05	99. 18	99. 62	99. 06	98. 54	99. 94	99. 05
γ 92. 0	95. 51	95. 76	96. 49	97. 40	100. 26	101. 54	98. 84	99. 21	98. 63	98. 07	99. 53	98. 53
γ 93. 0	95. 02	96. 10	95. 90	96. 98	99. 87	101. 13	98. 22	98. 81	98. 11	97. 71	98. 99	98. 18



**IES Indoor Report**  
**Photometric Filename:LL-0500-1500-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	94.62	94.63	95.42	96.40	99.33	100.53	97.78	98.35	97.72	97.38	98.62	97.68
γ 95.0	94.14	94.49	94.93	95.91	98.77	99.94	97.28	97.92	97.24	96.91	98.15	97.24
γ 96.0	93.69	93.83	94.52	95.51	98.20	99.37	96.83	97.35	96.96	96.60	97.73	96.68
γ 97.0	93.21	93.34	94.07	94.98	97.65	98.86	96.36	96.82	96.81	96.08	97.35	96.27
γ 98.0	92.77	92.80	93.57	94.47	97.10	98.31	95.84	96.29	96.73	95.72	96.77	95.85
γ 99.0	92.33	92.36	93.07	93.91	96.55	97.63	95.41	95.84	96.21	95.24	96.23	95.44
γ 100.0	91.66	91.94	92.53	93.29	96.02	97.14	94.88	95.38	95.80	94.78	95.92	94.83
γ 101.0	91.20	91.46	92.07	93.00	95.44	96.65	94.20	94.79	95.39	94.29	95.34	94.34
γ 102.0	90.94	91.00	91.56	92.25	94.91	95.99	93.80	94.36	95.54	93.73	94.89	93.84
γ 103.0	90.15	90.58	90.94	91.70	94.29	95.24	93.21	93.82	95.01	93.25	94.38	93.39
γ 104.0	89.74	89.95	90.44	91.21	93.68	94.75	92.67	93.26	94.61	92.78	93.95	92.88
γ 105.0	89.22	89.38	89.82	90.62	93.21	94.14	92.07	92.69	94.15	92.26	93.34	92.33
γ 106.0	88.75	88.83	89.42	90.05	92.44	93.45	91.97	92.19	93.64	91.69	92.97	91.83
γ 107.0	88.31	88.42	88.91	89.50	91.90	92.94	91.19	91.78	93.14	91.26	92.40	91.41
γ 108.0	87.74	87.82	88.29	88.91	91.33	92.31	90.12	91.17	92.64	90.75	91.84	90.86
γ 109.0	87.16	87.30	87.83	88.33	90.63	91.74	89.22	90.55	92.07	90.25	91.42	90.27
γ 110.0	86.55	86.70	87.25	87.65	90.01	91.11	88.58	89.89	91.54	89.64	90.90	89.82
γ 111.0	85.74	86.00	86.64	87.17	89.40	90.52	87.65	89.21	91.12	89.04	90.22	89.22
γ 112.0	84.94	85.56	86.02	86.56	88.73	89.87	86.72	88.50	90.83	88.56	89.82	88.63
γ 113.0	84.22	84.93	85.47	85.93	88.15	89.26	86.59	87.90	90.15	87.96	89.17	88.15
γ 114.0	83.39	84.41	84.82	85.24	87.53	88.54	85.77	86.94	89.62	87.44	88.59	87.52
γ 115.0	82.73	83.88	84.31	84.72	86.82	87.85	84.73	86.37	88.94	86.73	88.03	86.96
γ 116.0	82.06	83.31	83.75	84.08	86.10	87.14	83.90	85.62	88.35	86.13	87.45	86.47
γ 117.0	81.23	82.65	83.06	83.49	85.56	86.40	82.97	84.57	87.80	85.68	86.97	85.93
γ 118.0	80.90	81.87	82.52	82.81	84.86	85.69	82.11	83.54	87.08	85.11	86.30	85.28
γ 119.0	80.00	82.19	81.91	82.17	84.24	84.82	81.01	84.07	86.22	84.43	85.67	84.77
γ 120.0	79.36	80.26	81.19	81.56	83.63	84.08	80.25	82.71	85.46	83.87	85.10	84.15
γ 121.0	78.67	79.21	80.63	80.96	82.85	83.36	79.19	81.39	84.62	83.25	84.35	83.59
γ 122.0	77.99	78.22	80.07	80.37	82.31	82.49	78.22	79.65	83.82	82.72	83.92	83.05
γ 123.0	77.31	77.11	79.54	79.88	81.62	81.60	77.46	77.28	82.95	82.13	83.27	82.42
γ 124.0	76.72	75.93	78.83	79.35	80.93	80.75	76.70	75.77	82.14	81.66	82.65	81.83
γ 125.0	76.03	74.64	78.25	78.87	80.42	79.85	75.73	74.24	81.35	80.98	82.13	81.36
γ 126.0	75.24	73.39	77.66	78.18	79.74	79.04	74.56	72.67	80.42	80.32	81.45	80.70
γ 127.0	74.54	72.47	77.14	77.43	79.12	78.07	73.41	71.23	79.61	79.83	80.89	80.25
γ 128.0	73.86	71.58	76.37	76.79	78.32	77.30	72.28	69.92	78.82	79.17	80.23	79.36
γ 129.0	73.19	70.86	75.83	76.28	77.85	76.17	71.04	68.69	77.99	78.61	79.61	78.55
γ 130.0	72.60	70.10	75.13	75.55	77.12	75.00	69.96	67.64	77.09	77.96	79.13	77.75
γ 131.0	71.83	69.46	74.60	75.00	76.45	73.93	68.96	66.66	76.23	77.32	78.51	76.77
γ 132.0	71.25	68.81	73.93	74.50	75.77	72.75	68.02	65.74	75.56	76.67	77.84	75.72
γ 133.0	70.42	68.10	73.26	73.93	74.90	71.65	66.58	64.80	74.80	76.11	77.16	74.68
γ 134.0	69.84	67.53	72.63	73.29	74.30	70.37	65.74	63.93	73.91	75.44	76.63	73.60
γ 135.0	69.19	66.82	72.02	72.86	73.57	69.18	65.02	62.98	73.11	74.75	75.93	72.53
γ 136.0	68.78	66.22	71.40	72.31	72.83	67.94	64.29	62.19	72.27	74.12	75.34	71.59
γ 137.0	68.18	65.74	70.79	71.62	72.19	67.02	63.52	61.27	71.47	73.35	74.73	70.79
γ 138.0	67.55	65.24	70.23	71.00	71.31	65.90	62.40	60.41	70.74	72.59	74.11	70.05
γ 139.0	67.12	64.72	69.52	70.46	70.56	64.84	61.82	59.79	69.93	71.91	73.42	69.36
γ 140.0	66.54	64.30	68.75	69.86	69.71	63.78	61.21	59.07	68.91	71.08	72.85	68.51

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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	66.04	63.89	67.95	69.31	68.88	62.81	60.32	58.55	67.83	70.37	72.18	67.83
γ 142.0	65.51	63.62	67.08	68.61	68.07	61.83	59.94	57.99	66.92	69.61	71.47	67.26
γ 143.0	64.98	63.40	66.15	67.96	67.20	61.13	59.35	57.51	65.87	68.69	70.72	66.65
γ 144.0	64.62	63.21	65.11	66.99	66.12	60.50	58.46	57.18	64.81	67.68	70.01	66.15
γ 145.0	64.07	62.91	64.10	66.20	65.11	59.86	57.91	56.77	63.46	66.64	69.12	65.71
γ 146.0	63.55	62.79	63.18	65.18	64.02	59.16	57.28	56.33	62.42	65.65	68.11	65.27
γ 147.0	63.35	62.55	62.20	64.17	62.97	58.64	56.82	55.85	61.17	64.60	67.04	64.89
γ 148.0	63.07	62.33	61.27	63.13	61.90	57.90	56.38	55.45	60.07	63.45	65.99	64.33
γ 149.0	62.97	62.11	60.65	62.03	60.67	57.34	56.01	55.04	58.96	62.31	64.98	63.92
γ 150.0	62.74	62.79	59.94	61.05	59.38	56.67	55.48	54.54	58.03	61.16	64.05	63.43
γ 151.0	62.19	61.30	59.19	59.96	58.38	56.13	55.07	53.93	57.08	60.00	62.77	63.03
γ 152.0	61.82	60.77	58.41	58.94	57.26	55.53	54.69	53.57	56.27	58.73	61.85	62.49
γ 153.0	61.37	60.27	57.63	57.84	56.21	54.87	53.85	53.06	55.41	57.59	60.77	61.91
γ 154.0	60.75	59.92	56.79	56.76	55.31	54.31	53.73	52.52	54.59	56.50	59.88	61.22
γ 155.0	60.12	59.85	55.82	55.68	54.45	53.60	53.55	51.81	53.92	55.43	58.81	60.46
γ 156.0	59.44	58.51	54.84	54.56	53.64	52.79	52.85	51.24	53.30	54.40	57.77	59.58
γ 157.0	58.62	57.79	53.83	53.64	52.72	52.02	52.39	50.50	52.59	53.29	56.81	58.70
γ 158.0	57.80	56.15	53.00	52.49	52.02	51.34	51.78	49.65	51.88	52.24	55.68	57.65
γ 159.0	56.87	55.12	51.83	51.56	51.23	50.54	51.38	49.12	51.04	51.24	54.67	56.74
γ 160.0	55.94	54.17	50.73	50.44	50.48	49.80	50.81	48.50	50.36	50.28	53.60	55.81
γ 161.0	55.01	53.11	49.69	49.40	49.61	49.05	50.06	47.98	49.55	49.25	52.38	54.69
γ 162.0	53.95	52.02	48.58	48.34	48.77	48.21	49.24	47.41	48.74	48.31	51.24	53.54
γ 163.0	52.87	50.78	47.35	47.32	47.89	47.31	48.22	46.98	47.94	47.43	50.18	52.33
γ 164.0	51.82	49.79	46.21	46.07	47.04	46.47	47.25	46.69	47.00	46.37	48.93	51.15
γ 165.0	50.71	48.52	44.97	45.21	46.23	45.54	46.32	46.07	46.28	45.41	47.89	49.94
γ 166.0	49.83	47.39	43.93	44.26	45.24	44.73	45.37	45.56	45.54	44.42	46.64	48.67
γ 167.0	48.65	46.16	42.80	43.03	44.47	43.74	44.32	44.69	44.97	43.51	45.54	47.42
γ 168.0	47.43	44.83	41.64	42.25	43.65	42.85	43.39	44.00	44.33	42.62	44.39	46.10
γ 169.0	46.46	43.80	40.69	41.34	43.03	42.14	42.56	43.27	43.87	41.72	43.33	44.81
γ 170.0	45.74	43.10	40.60	41.28	43.42	42.13	41.84	42.54	43.58	41.44	42.41	43.75
γ 171.0	45.02	42.84	41.02	41.76	44.18	42.29	41.60	42.58	44.36	41.79	42.44	43.60
γ 172.0	44.77	42.64	41.45	42.56	44.94	42.70	41.67	42.82	45.19	42.53	42.88	43.74
γ 173.0	44.48	42.74	41.94	43.26	45.82	43.23	41.54	43.09	45.82	43.37	43.61	44.22
γ 174.0	44.21	42.95	42.57	44.16	46.68	43.92	42.13	43.33	46.27	44.17	44.32	44.74
γ 175.0	44.15	43.28	43.35	44.99	47.26	44.82	42.68	43.52	46.49	45.10	45.10	45.27
γ 176.0	44.42	43.74	44.20	46.15	47.47	45.52	43.23	43.89	47.04	46.23	45.84	46.09
γ 177.0	44.49	44.18	45.06	47.18	47.74	46.31	43.81	44.30	47.47	47.25	46.68	46.67
γ 178.0	44.67	44.79	45.96	48.11	48.17	46.96	44.47	44.91	47.87	47.91	47.69	47.35
γ 179.0	45.11	45.81	46.85	48.82	48.55	47.81	45.21	45.34	48.20	48.54	48.48	47.97
γ 180.0	47.26	47.26	47.26	47.26	47.26	47.26	47.26	47.26	47.26	47.26	47.26	47.26