

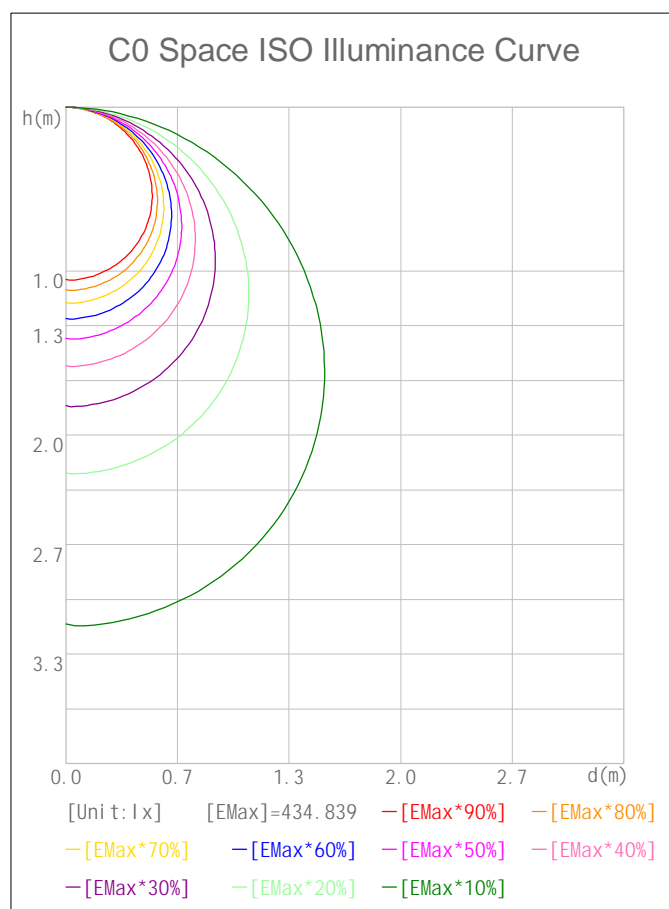
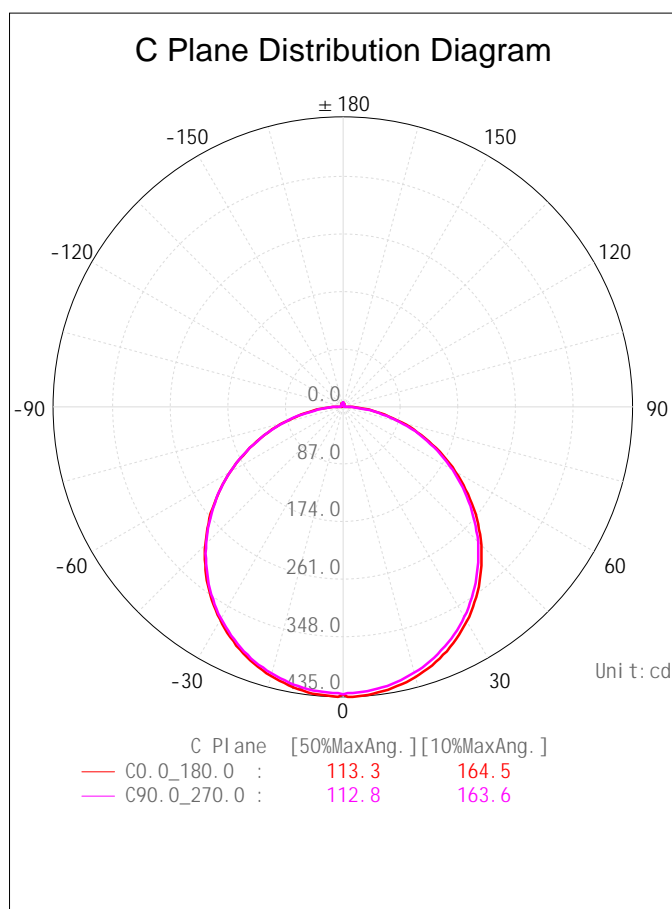
Indoor Luminaire Photometric Data

Description Information

Luminary Name: LED LIGHT		Lum. Catalog:	Test ID:
Lamp Name: led		Lamp Catalog:	Test Date: 2020/04/06
Manufacture:		Shld. Ang(°):	Test Machine: GON-2000
Test Lab:		Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H): 0.000m*0.000m*0.000m		Lum. Area(m2): 0.000	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

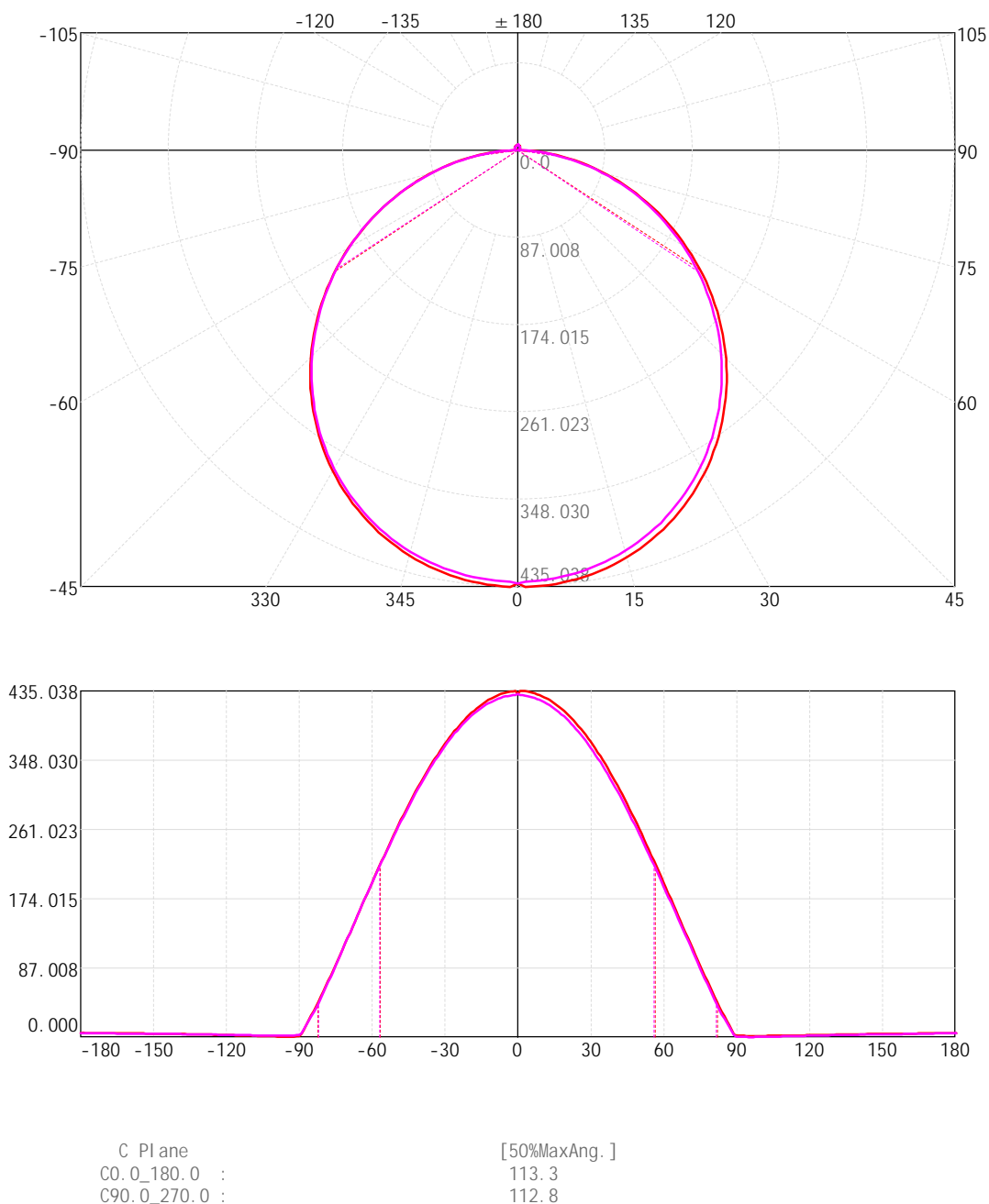
Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 1000.000	Luminary Flux(lm): 1271.564	Field Angle(10%Imax): 164.5(°)
Rated Power(W):	Luminary Efficiency: 127.16%	Down Lumens&Percent: 1254.370lm 98.65%
Rated Voltage(V):	Luminary EER(lm/W): 88.858	Up Lumens&Percent: 17.194lm 1.35%
Tested Power(W): 14.310	Max. Candela(cd): 435.038	S/MH: C0_a180=1.272 C90_270=1.257
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf): 110.4, 0.130, 0.993	Beam Angle(50%Imax): 113.3(°)	ErP φ use(120°): 974.213lm
Lamp Size(W*L*H): 0.000m*0.000m*0.000m	Left=-56.6°, Right=56.7°	IRF(%): 108.428



2D Plane Light Intensity Distribution Curve

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

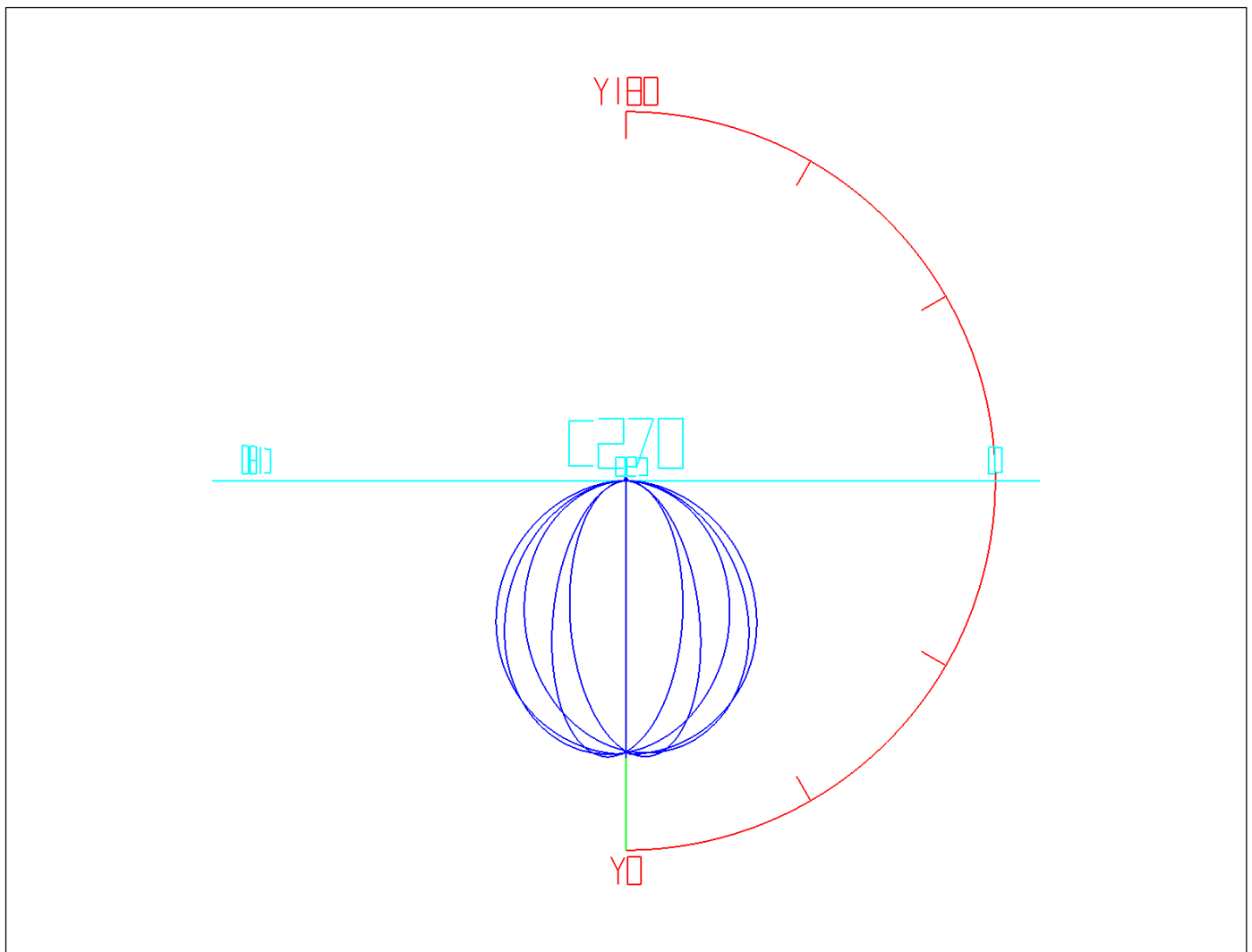
C Plane Distribution Diagram



3D Light Intensity Distribution Modal

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

3D Light Intensity Distribution Modal



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

IES Indoor Report
Photometric Filename:ETL 110V 15W.IES

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	0.41	0.41	0.04	0.04	45.0-46.0	22.37	685.01	2.24	68.50
1.0-2.0	1.24	1.65	0.12	0.16	46.0-47.0	22.27	707.28	2.23	70.73
2.0-3.0	2.06	3.71	0.21	0.37	47.0-48.0	22.15	729.43	2.21	72.94
3.0-4.0	2.88	6.59	0.29	0.66	48.0-49.0	21.99	751.42	2.20	75.14
4.0-5.0	3.70	10.28	0.37	1.03	49.0-50.0	21.81	773.23	2.18	77.32
5.0-6.0	4.51	14.79	0.45	1.48	50.0-51.0	21.59	794.82	2.16	79.48
6.0-7.0	5.31	20.10	0.53	2.01	51.0-52.0	21.35	816.18	2.14	81.62
7.0-8.0	6.11	26.22	0.61	2.62	52.0-53.0	21.08	837.26	2.11	83.73
8.0-9.0	6.90	33.12	0.69	3.31	53.0-54.0	20.79	858.05	2.08	85.81
9.0-10.0	7.68	40.80	0.77	4.08	54.0-55.0	20.48	878.53	2.05	87.85
10.0-11.0	8.45	49.26	0.85	4.93	55.0-56.0	20.13	898.66	2.01	89.87
11.0-12.0	9.21	58.47	0.92	5.85	56.0-57.0	19.76	918.42	1.98	91.84
12.0-13.0	9.96	68.43	1.00	6.84	57.0-58.0	19.36	937.78	1.94	93.78
13.0-14.0	10.70	79.13	1.07	7.91	58.0-59.0	18.95	956.73	1.89	95.67
14.0-15.0	11.42	90.55	1.14	9.05	59.0-60.0	18.51	975.23	1.85	97.52
15.0-16.0	12.12	102.67	1.21	10.27	60.0-61.0	18.05	993.28	1.80	99.33
16.0-17.0	12.81	115.48	1.28	11.55	61.0-62.0	17.56	1010.84	1.76	101.08
17.0-18.0	13.48	128.96	1.35	12.90	62.0-63.0	17.06	1027.90	1.71	102.79
18.0-19.0	14.13	143.09	1.41	14.31	63.0-64.0	16.54	1044.44	1.65	104.44
19.0-20.0	14.77	157.86	1.48	15.79	64.0-65.0	15.99	1060.43	1.60	106.04
20.0-21.0	15.38	173.24	1.54	17.32	65.0-66.0	15.43	1075.86	1.54	107.59
21.0-22.0	15.97	189.22	1.60	18.92	66.0-67.0	14.86	1090.72	1.49	109.07
22.0-23.0	16.55	205.76	1.65	20.58	67.0-68.0	14.27	1104.98	1.43	110.50
23.0-24.0	17.10	222.86	1.71	22.29	68.0-69.0	13.66	1118.64	1.37	111.86
24.0-25.0	17.62	240.48	1.76	24.05	69.0-70.0	13.04	1131.68	1.30	113.17
25.0-26.0	18.13	258.61	1.81	25.86	70.0-71.0	12.40	1144.08	1.24	114.41
26.0-27.0	18.61	277.22	1.86	27.72	71.0-72.0	11.76	1155.84	1.18	115.58
27.0-28.0	19.06	296.27	1.91	29.63	72.0-73.0	11.11	1166.95	1.11	116.70
28.0-29.0	19.48	315.76	1.95	31.58	73.0-74.0	10.45	1177.40	1.04	117.74
29.0-30.0	19.89	335.64	1.99	33.56	74.0-75.0	9.78	1187.18	0.98	118.72
30.0-31.0	20.26	355.90	2.03	35.59	75.0-76.0	9.10	1196.28	0.91	119.63
31.0-32.0	20.61	376.51	2.06	37.65	76.0-77.0	8.42	1204.70	0.84	120.47
32.0-33.0	20.92	397.43	2.09	39.74	77.0-78.0	7.74	1212.44	0.77	121.24
33.0-34.0	21.21	418.64	2.12	41.86	78.0-79.0	7.05	1219.49	0.71	121.95
34.0-35.0	21.47	440.12	2.15	44.01	79.0-80.0	6.37	1225.86	0.64	122.59
35.0-36.0	21.70	461.82	2.17	46.18	80.0-81.0	5.69	1231.55	0.57	123.15
36.0-37.0	21.91	483.72	2.19	48.37	81.0-82.0	5.01	1236.56	0.50	123.66
37.0-38.0	22.08	505.80	2.21	50.58	82.0-83.0	4.35	1240.91	0.43	124.09
38.0-39.0	22.22	528.02	2.22	52.80	83.0-84.0	3.70	1244.60	0.37	124.46
39.0-40.0	22.33	550.35	2.23	55.04	84.0-85.0	3.08	1247.68	0.31	124.77
40.0-41.0	22.41	572.77	2.24	57.28	85.0-86.0	2.47	1250.15	0.25	125.02
41.0-42.0	22.46	595.23	2.25	59.52	86.0-87.0	1.87	1252.03	0.19	125.20
42.0-43.0	22.49	617.72	2.25	61.77	87.0-88.0	1.29	1253.32	0.13	125.33
43.0-44.0	22.48	640.20	2.25	64.02	88.0-89.0	0.73	1254.05	0.07	125.40
44.0-45.0	22.44	662.64	2.24	66.26	89.0-90.0	0.32	1254.37	0.03	125.44

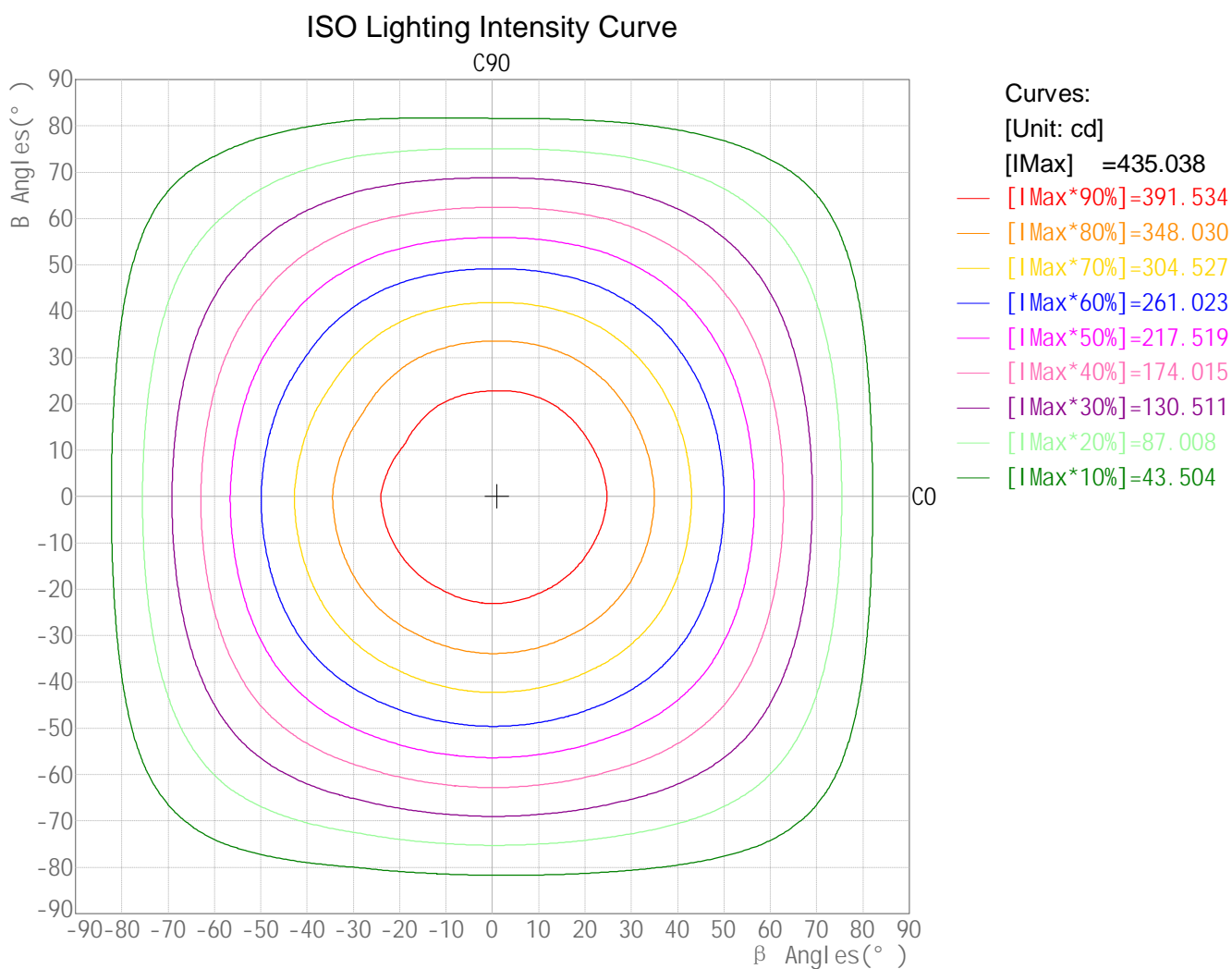
IES Indoor Report
Photometric Filename:ETL 110V 15W.IES

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
90.0-91.0	0.18	1254.55	0.02	125.45	135.0-136.0	0.27	1264.16	0.03	126.42
91.0-92.0	0.16	1254.71	0.02	125.47	136.0-137.0	0.27	1264.43	0.03	126.44
92.0-93.0	0.15	1254.86	0.02	125.49	137.0-138.0	0.27	1264.70	0.03	126.47
93.0-94.0	0.15	1255.01	0.01	125.50	138.0-139.0	0.27	1264.97	0.03	126.50
94.0-95.0	0.14	1255.15	0.01	125.51	139.0-140.0	0.27	1265.23	0.03	126.52
95.0-96.0	0.14	1255.28	0.01	125.53	140.0-141.0	0.27	1265.50	0.03	126.55
96.0-97.0	0.14	1255.42	0.01	125.54	141.0-142.0	0.26	1265.76	0.03	126.58
97.0-98.0	0.14	1255.56	0.01	125.56	142.0-143.0	0.26	1266.02	0.03	126.60
98.0-99.0	0.14	1255.70	0.01	125.57	143.0-144.0	0.26	1266.28	0.03	126.63
99.0-100.0	0.15	1255.85	0.01	125.58	144.0-145.0	0.25	1266.53	0.03	126.65
100.0-101.0	0.15	1256.00	0.02	125.60	145.0-146.0	0.25	1266.78	0.02	126.68
101.0-102.0	0.16	1256.16	0.02	125.62	146.0-147.0	0.25	1267.02	0.02	126.70
102.0-103.0	0.16	1256.32	0.02	125.63	147.0-148.0	0.24	1267.27	0.02	126.73
103.0-104.0	0.17	1256.49	0.02	125.65	148.0-149.0	0.24	1267.50	0.02	126.75
104.0-105.0	0.17	1256.66	0.02	125.67	149.0-150.0	0.23	1267.73	0.02	126.77
105.0-106.0	0.18	1256.84	0.02	125.68	150.0-151.0	0.23	1267.96	0.02	126.80
106.0-107.0	0.18	1257.03	0.02	125.70	151.0-152.0	0.22	1268.18	0.02	126.82
107.0-108.0	0.19	1257.22	0.02	125.72	152.0-153.0	0.22	1268.40	0.02	126.84
108.0-109.0	0.20	1257.41	0.02	125.74	153.0-154.0	0.21	1268.61	0.02	126.86
109.0-110.0	0.20	1257.61	0.02	125.76	154.0-155.0	0.20	1268.81	0.02	126.88
110.0-111.0	0.21	1257.82	0.02	125.78	155.0-156.0	0.20	1269.01	0.02	126.90
111.0-112.0	0.21	1258.03	0.02	125.80	156.0-157.0	0.19	1269.21	0.02	126.92
112.0-113.0	0.22	1258.25	0.02	125.83	157.0-158.0	0.19	1269.39	0.02	126.94
113.0-114.0	0.22	1258.47	0.02	125.85	158.0-159.0	0.18	1269.57	0.02	126.96
114.0-115.0	0.23	1258.70	0.02	125.87	159.0-160.0	0.17	1269.74	0.02	126.97
115.0-116.0	0.23	1258.93	0.02	125.89	160.0-161.0	0.17	1269.91	0.02	126.99
116.0-117.0	0.24	1259.17	0.02	125.92	161.0-162.0	0.16	1270.07	0.02	127.01
117.0-118.0	0.24	1259.41	0.02	125.94	162.0-163.0	0.15	1270.22	0.02	127.02
118.0-119.0	0.24	1259.65	0.02	125.96	163.0-164.0	0.14	1270.37	0.01	127.04
119.0-120.0	0.25	1259.90	0.02	125.99	164.0-165.0	0.14	1270.50	0.01	127.05
120.0-121.0	0.25	1260.15	0.03	126.01	165.0-166.0	0.13	1270.63	0.01	127.06
121.0-122.0	0.25	1260.40	0.03	126.04	166.0-167.0	0.12	1270.76	0.01	127.08
122.0-123.0	0.26	1260.66	0.03	126.07	167.0-168.0	0.11	1270.87	0.01	127.09
123.0-124.0	0.26	1260.92	0.03	126.09	168.0-169.0	0.11	1270.98	0.01	127.10
124.0-125.0	0.26	1261.18	0.03	126.12	169.0-170.0	0.10	1271.08	0.01	127.11
125.0-126.0	0.26	1261.44	0.03	126.14	170.0-171.0	0.09	1271.17	0.01	127.12
126.0-127.0	0.27	1261.71	0.03	126.17	171.0-172.0	0.08	1271.25	0.01	127.12
127.0-128.0	0.27	1261.98	0.03	126.20	172.0-173.0	0.07	1271.32	0.01	127.13
128.0-129.0	0.27	1262.25	0.03	126.22	173.0-174.0	0.06	1271.38	0.01	127.14
129.0-130.0	0.27	1262.52	0.03	126.25	174.0-175.0	0.05	1271.44	0.01	127.14
130.0-131.0	0.27	1262.79	0.03	126.28	175.0-176.0	0.04	1271.48	0.00	127.15
131.0-132.0	0.27	1263.07	0.03	126.31	176.0-177.0	0.04	1271.52	0.00	127.15
132.0-133.0	0.27	1263.34	0.03	126.33	177.0-178.0	0.03	1271.54	0.00	127.15
133.0-134.0	0.27	1263.61	0.03	126.36	178.0-179.0	0.02	1271.56	0.00	127.16
134.0-135.0	0.27	1263.89	0.03	126.39	179.0-180.0	0.01	1271.56	0.00	127.16

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

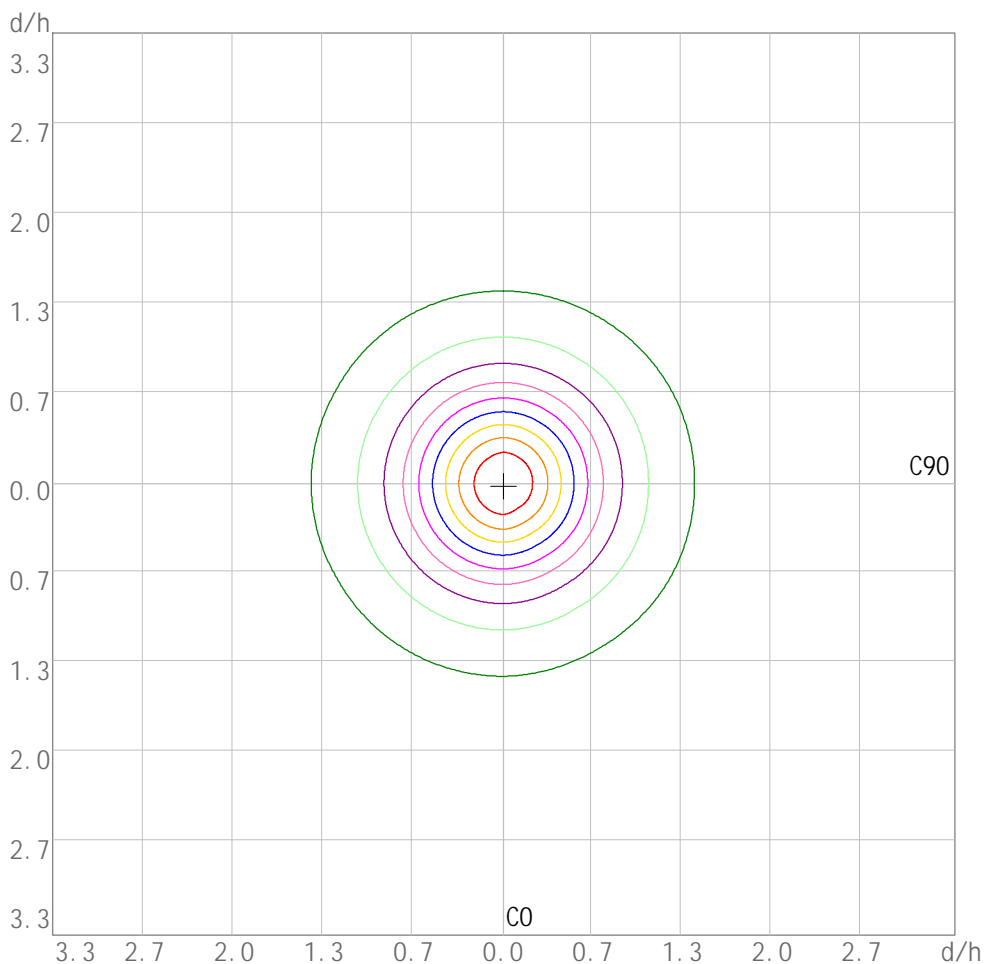


Maximum Light Intensity(cd): 435.04
Maximum Cand. @Angle: H=1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

Plane ISO-Illuminance Curve



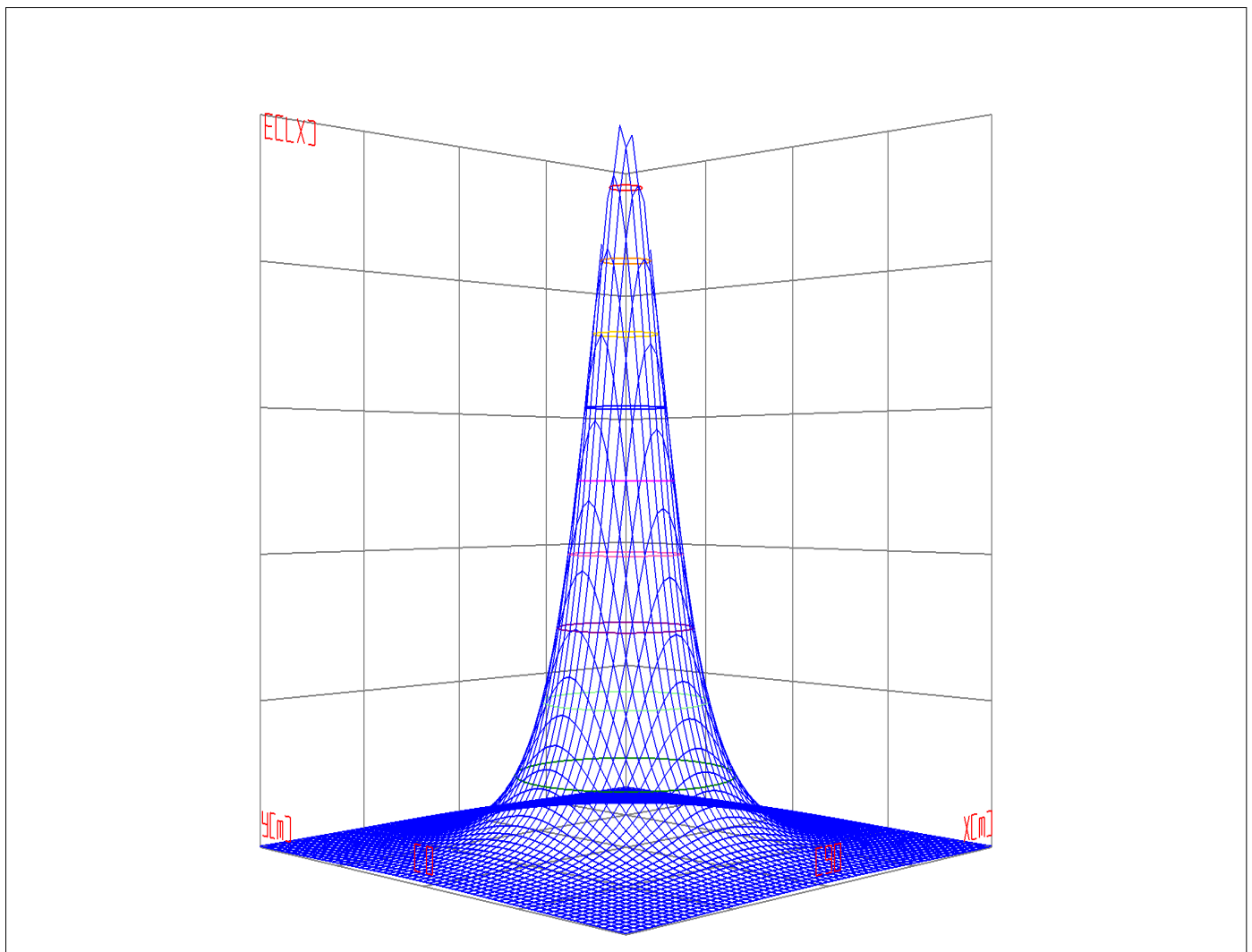
- Curves:
unit:lx
[EMax] =48.315
— [EMax*90%]=43.484
— [EMax*80%]=38.652
— [EMax*70%]=33.821
— [EMax*60%]=28.989
— [EMax*50%]=24.158
— [EMax*40%]=19.326
— [EMax*30%]=14.495
— [EMax*20%]=9.663
— [EMax*10%]=4.832

Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 48.32
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

3D Plane Illuminance Modal

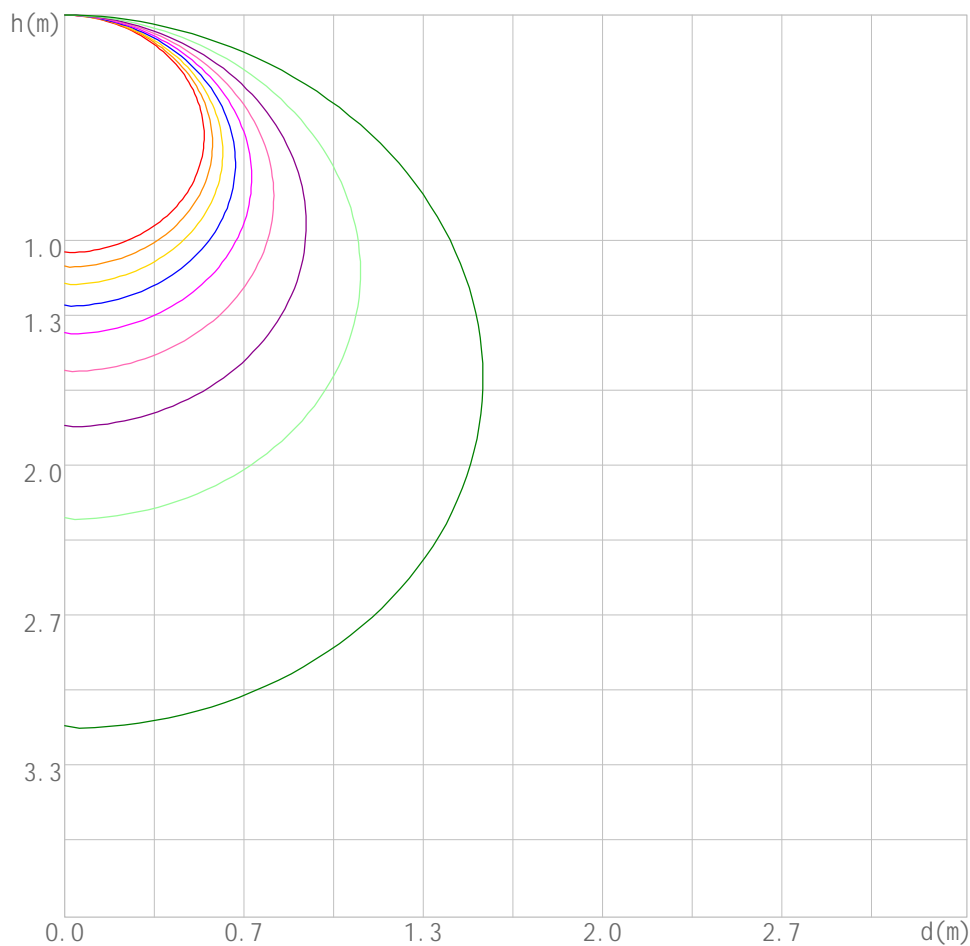


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

Space ISO Illuminance Curve



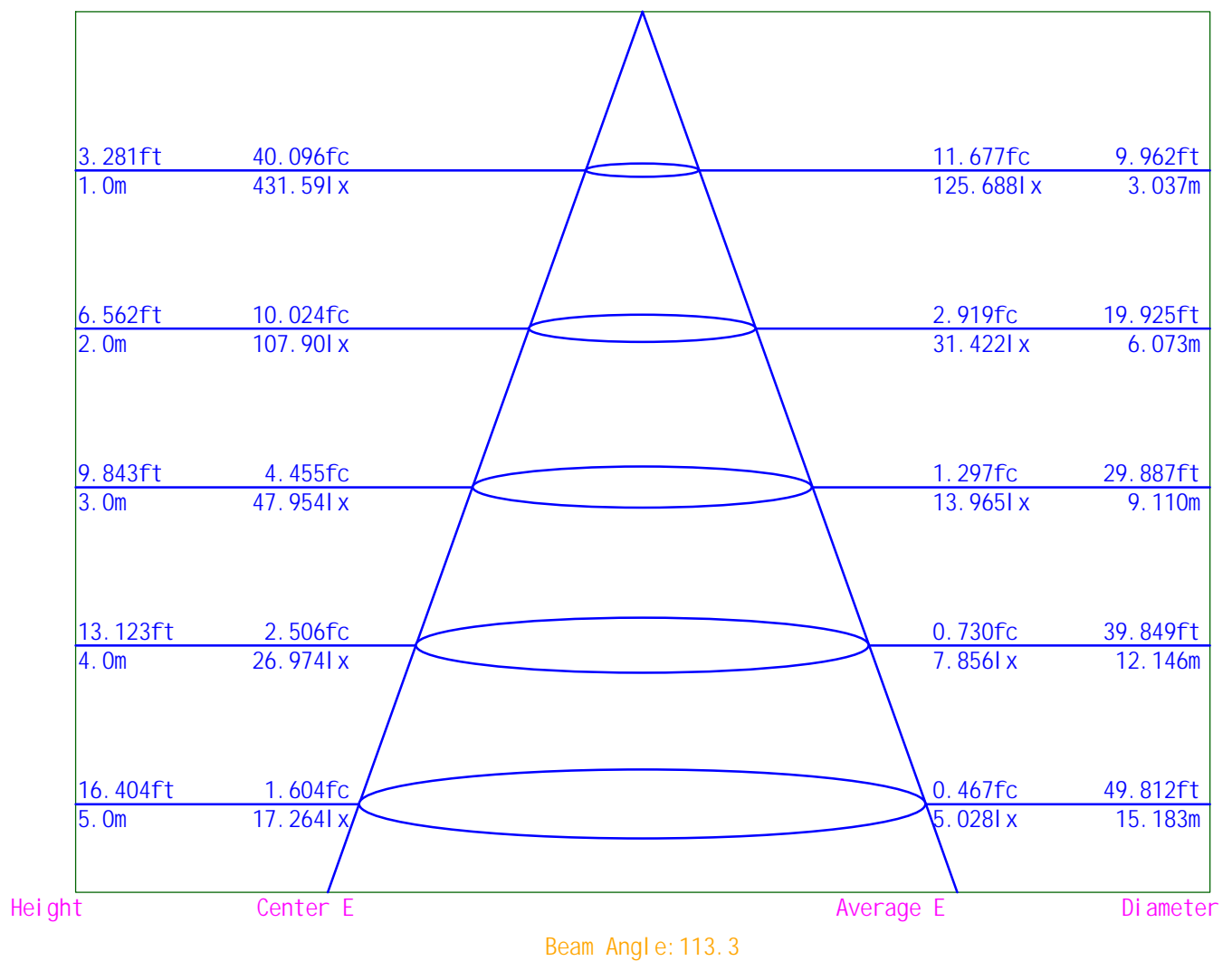
- Curves:
 [Unit: lx]
 [EMax] =434.839
- [EMax*90%]=391.355
 - [EMax*80%]=347.871
 - [EMax*70%]=304.387
 - [EMax*60%]=260.904
 - [EMax*50%]=217.420
 - [EMax*40%]=173.936
 - [EMax*30%]=130.452
 - [EMax*20%]=86.968
 - [EMax*10%]=43.484

Space Plane Maximum Illuminance and @Angle:434.84lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:435.038cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacturer:	Test Machine: GON-2000	Test Date: 2020/04/06

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

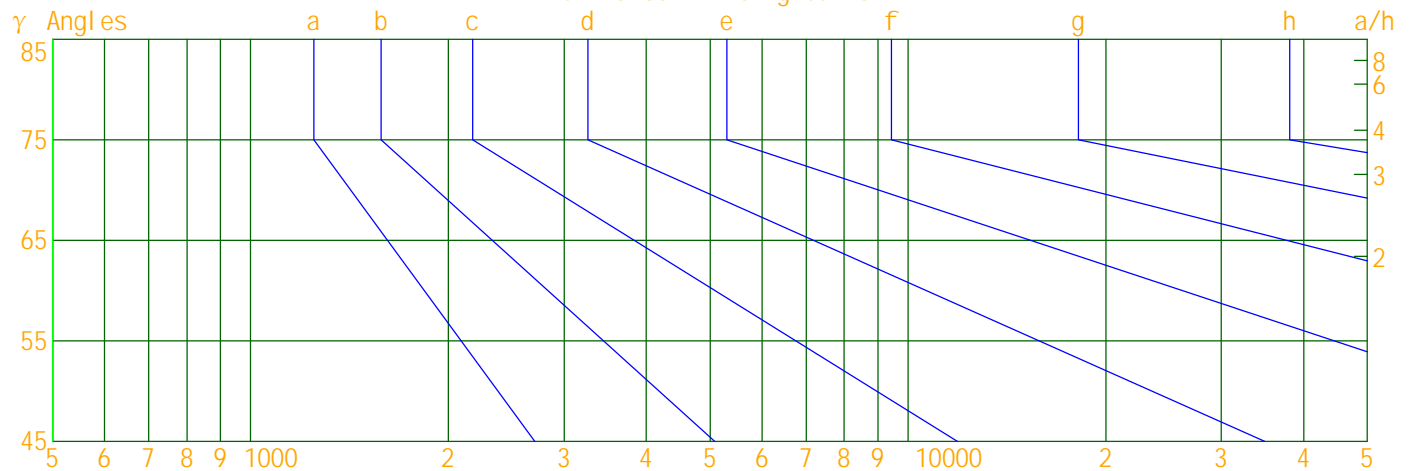
Glare Grade Table

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

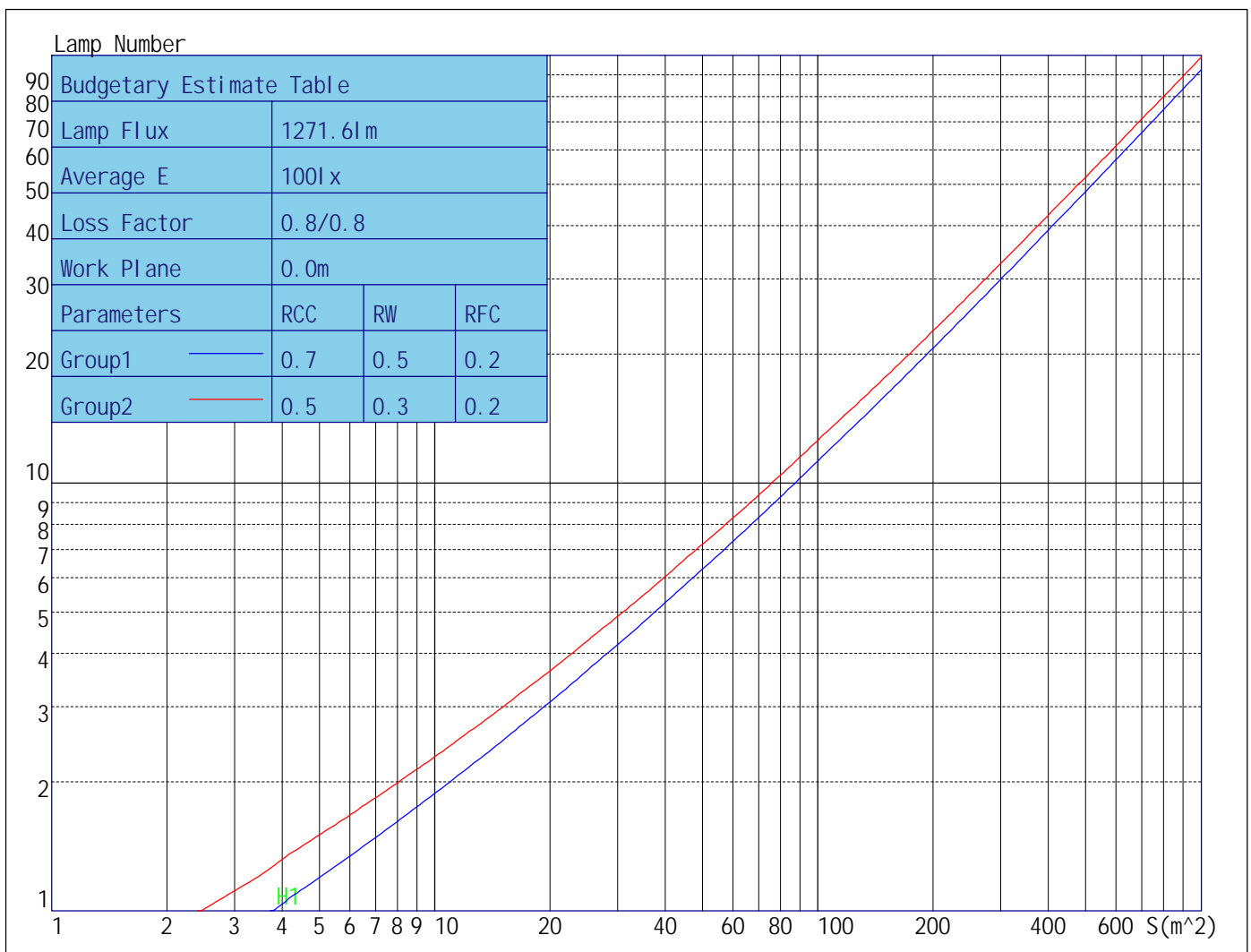
Luminance Limiting Curve



Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m²)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06



Parameters1: Rhoc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
Parameters2: Rhoc = 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: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

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	50	30	10	0
RCR	Coefficient of Utilization(%)																				
0	151	151	151	151	147	147	147	147	140	140	140	134	134	134	128	128	128	125			
1	138	131	126	121	134	128	123	118	122	118	114	117	114	111	112	110	107	104			
2	125	114	105	98	121	112	103	96	107	100	94	102	97	92	98	93	89	86			
3	114	100	89	81	110	98	88	80	94	85	79	90	83	77	87	81	75	72			
4	104	88	77	68	101	87	76	68	83	74	67	80	72	66	77	70	65	62			
5	96	79	67	59	93	77	67	58	74	65	58	72	63	57	69	62	56	53			
6	88	71	60	51	86	70	59	51	67	58	50	65	56	50	63	55	49	46			
7	82	64	53	45	79	63	53	45	61	51	45	59	50	44	57	49	44	41			
8	76	59	48	40	74	58	47	40	56	46	40	54	46	39	53	45	39	37			
9	71	54	43	36	69	53	43	36	51	42	36	50	41	35	48	41	35	33			
10	67	50	40	33	65	49	39	33	48	39	32	46	38	32	45	37	32	30			

Unified Glare Rating Table

Lum. Name: LED LIGHT	Lum. Catalog:	Test ID:
Lamp Name: led	Lamp Catalog:	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/04/06

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	Viewed crosswise					Viewed endwise					
X=2H	Y=2H	-2.0	-0.2	-1.6	0.1	0.5	-2.0	-0.2	-1.6	0.1	0.5
	Y=3H	-2.1	-0.5	-1.7	-0.1	0.3	-2.1	-0.5	-1.7	-0.1	0.3
	Y=4H	-2.2	-0.6	-1.8	-0.3	0.1	-2.2	-0.6	-1.8	-0.3	0.1
	Y=6H	-2.3	-0.8	-1.9	-0.4	0.0	-2.3	-0.8	-1.9	-0.4	0.0
	Y=8H	-2.3	-0.9	-1.9	-0.5	-0.0	-2.3	-0.9	-1.9	-0.5	-0.0
	Y=12H	-2.4	-0.9	-1.9	-0.5	-0.1	-2.4	-0.9	-1.9	-0.5	-0.1
X=4H	Y=2H	-2.2	-0.6	-1.8	-0.3	0.1	-2.2	-0.6	-1.8	-0.3	0.1
	Y=3H	-2.4	-1.0	-1.9	-0.6	-0.1	-2.4	-1.0	-1.9	-0.6	-0.1
	Y=4H	-2.5	-1.2	-2.0	-0.7	-0.3	-2.5	-1.2	-2.0	-0.7	-0.3
	Y=6H	-2.5	-1.3	-2.1	-0.9	-0.4	-2.5	-1.3	-2.1	-0.9	-0.4
	Y=8H	-2.6	-1.4	-2.1	-1.0	-0.5	-2.6	-1.4	-2.1	-1.0	-0.5
	Y=12H	-2.6	-1.5	-2.1	-1.0	-0.6	-2.6	-1.5	-2.1	-1.0	-0.6
X=8H	Y=4H	-2.6	-1.4	-2.1	-1.0	-0.5	-2.6	-1.4	-2.1	-1.0	-0.5
	Y=6H	-2.7	-1.7	-2.2	-1.2	-0.5	-2.7	-1.7	-2.2	-1.2	-0.5
	Y=8H	-2.8	-1.8	-2.3	-1.3	-0.8	-2.8	-1.8	-2.3	-1.3	-0.8
	Y=12H	-2.8	-1.9	-2.3	-1.4	-0.8	-2.8	-1.9	-2.3	-1.4	-0.8
X=12H	Y=4H	-2.6	-1.5	-2.1	-1.0	-0.6	-2.6	-1.5	-2.1	-1.0	-0.6
	Y=6H	-2.7	-1.8	-2.2	-1.3	-0.7	-2.7	-1.8	-2.2	-1.3	-0.7
	Y=8H	-2.8	-1.9	-2.3	-1.4	-0.8	-2.8	-1.9	-2.3	-1.4	-0.8
Variations with the observer 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:	BKO					BKO					
Correction Value	0.0					0.0					

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

IES Indoor Report
Photometric Filename:ETL 110V 15W.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	431.59	431.59	431.59	431.59	431.59	431.59	431.59	431.59	431.59	431.59	431.59	431.59
γ 1.0	435.04	431.96	430.72	429.74	429.59	428.85	434.86	432.03	430.59	429.78	429.43	429.12
γ 2.0	434.86	431.82	430.59	429.51	429.31	428.47	434.53	431.86	430.30	429.59	429.28	429.10
γ 3.0	434.68	431.52	430.28	429.14	428.92	427.99	434.13	431.42	429.86	429.24	428.96	428.86
γ 4.0	434.11	431.36	429.84	428.61	428.40	427.33	433.51	430.53	429.27	428.73	428.49	428.52
γ 5.0	433.55	430.77	429.30	427.94	427.46	426.51	432.80	429.86	428.57	428.10	427.92	427.80
γ 6.0	432.91	429.74	428.50	427.11	426.56	425.55	432.17	428.95	427.66	427.32	427.20	427.43
γ 7.0	432.02	428.90	427.65	426.11	425.73	424.47	431.13	427.99	426.99	426.42	426.30	426.65
γ 8.0	430.98	428.15	426.71	424.99	424.67	423.24	429.92	426.87	425.85	425.31	425.23	425.66
γ 9.0	429.83	426.74	425.48	423.77	423.40	421.88	428.47	425.53	424.38	424.17	424.05	424.36
γ 10.0	428.51	425.31	424.12	422.34	421.97	420.32	426.99	424.09	422.80	422.80	422.81	423.15
γ 11.0	427.01	424.17	422.86	420.83	420.40	418.63	425.37	422.90	421.15	421.25	421.31	421.96
γ 12.0	425.45	422.53	421.38	419.07	418.68	416.83	423.65	420.95	419.42	419.65	419.65	420.34
γ 13.0	423.66	420.77	419.28	417.19	416.80	414.90	421.80	418.94	417.60	417.83	417.97	418.91
γ 14.0	421.72	418.83	417.40	415.19	414.88	412.88	419.78	416.96	415.85	415.88	416.03	417.11
γ 15.0	419.73	416.78	415.36	413.13	412.67	410.63	417.59	414.96	413.69	413.87	414.03	415.19
γ 16.0	417.51	414.58	413.19	410.79	410.50	408.19	415.23	412.46	411.09	411.64	411.78	413.11
γ 17.0	415.17	411.93	410.82	408.38	407.82	405.55	412.84	410.06	408.61	409.18	409.47	410.87
γ 18.0	412.64	409.63	408.25	405.82	405.22	403.07	410.23	407.53	406.02	406.77	406.76	408.24
γ 19.0	409.98	406.95	405.65	403.01	402.51	400.22	407.45	404.80	403.32	404.08	404.16	405.74
γ 20.0	407.25	403.83	402.85	400.20	399.87	397.32	404.80	402.09	400.40	401.25	401.32	403.16
γ 21.0	404.33	400.82	399.88	397.42	396.83	394.18	401.60	398.94	397.40	398.39	398.45	400.30
γ 22.0	401.21	397.70	396.85	393.95	393.84	390.94	398.39	395.77	394.25	395.26	395.41	397.29
γ 23.0	398.21	394.63	393.60	390.71	390.49	387.68	395.20	392.60	390.91	392.11	392.14	394.33
γ 24.0	394.62	391.01	390.20	387.26	387.04	384.19	391.73	389.20	387.58	388.76	388.87	391.02
γ 25.0	391.05	387.57	386.72	383.80	383.55	380.54	388.15	385.62	383.93	385.22	385.38	387.63
γ 26.0	387.43	383.83	383.06	380.05	379.83	376.83	384.53	382.06	380.34	381.68	381.72	384.44
γ 27.0	383.59	380.01	379.22	376.15	375.77	372.97	380.66	378.20	376.48	377.87	378.25	380.73
γ 28.0	379.58	376.00	375.32	372.26	371.94	369.02	376.77	374.33	372.47	373.91	374.38	376.69
γ 29.0	375.60	371.87	371.21	368.07	367.80	364.89	372.63	370.27	368.48	369.98	370.42	372.82
γ 30.0	371.39	368.00	367.08	363.80	363.67	360.61	368.36	366.05	364.19	365.86	366.19	368.74
γ 31.0	367.28	363.64	362.69	359.52	359.24	356.33	364.17	361.85	359.80	361.48	361.71	364.48
γ 32.0	362.73	359.05	358.21	355.02	354.94	351.80	359.65	357.41	355.40	357.19	357.26	360.23
γ 33.0	357.96	354.52	353.74	350.29	350.54	347.11	355.00	352.82	350.79	352.57	352.71	355.74
γ 34.0	353.26	349.67	348.97	345.64	345.77	342.46	350.38	348.28	346.03	347.83	348.15	351.07
γ 35.0	348.32	344.66	344.03	340.70	340.88	337.34	345.51	343.39	341.30	343.13	343.51	346.43
γ 36.0	343.25	339.59	339.16	335.72	336.07	332.60	340.54	338.51	336.30	338.22	338.54	341.58
γ 37.0	338.18	334.44	334.03	330.75	330.94	327.64	335.62	333.65	331.19	333.22	333.46	336.92
γ 38.0	332.84	329.12	328.77	325.44	325.63	322.41	330.37	328.49	326.34	328.21	328.37	331.61
γ 39.0	327.44	323.84	323.52	320.02	320.51	316.86	325.05	323.38	320.84	322.87	323.02	326.51
γ 40.0	322.09	318.33	318.10	314.69	315.10	311.60	319.75	317.96	315.54	317.63	317.75	321.25
γ 41.0	316.45	312.77	312.51	309.09	309.35	306.11	314.21	312.42	309.99	312.10	312.21	315.79
γ 42.0	310.70	307.05	307.00	303.60	303.93	300.68	308.72	306.89	304.36	306.52	306.55	310.20
γ 43.0	305.02	301.24	301.22	297.81	298.34	294.98	303.00	301.43	298.85	301.02	300.95	304.70
γ 44.0	299.07	295.49	295.57	292.14	292.72	288.92	297.15	295.67	293.02	295.22	295.08	298.90

IES Indoor Report
Photometric Filename:ETL 110V 15W.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 45.0	293.22	289.40	289.63	286.33	286.82	283.15	291.38	289.80	287.09	289.33	289.08	292.96
γ 46.0	287.06	283.44	283.59	280.17	280.81	277.33	285.32	284.03	281.28	283.48	283.04	287.09
γ 47.0	280.80	277.38	277.66	273.89	274.96	271.21	279.23	278.00	275.23	277.47	276.91	280.95
γ 48.0	274.50	271.00	271.45	267.93	268.79	265.29	273.22	271.94	269.03	271.35	270.82	274.80
γ 49.0	268.33	264.56	265.20	261.67	262.58	259.05	266.90	265.95	263.02	265.35	264.75	268.73
γ 50.0	261.86	258.32	259.05	255.32	256.49	252.67	260.52	259.72	256.74	259.07	258.34	262.34
γ 51.0	255.52	251.98	252.66	249.05	250.12	246.27	254.31	253.38	250.37	252.65	251.86	256.08
γ 52.0	248.79	245.34	246.22	242.56	243.70	239.93	247.76	247.17	244.14	246.44	245.55	249.49
γ 53.0	242.21	238.94	239.88	236.11	237.37	233.48	241.14	240.72	237.81	239.94	238.82	242.90
γ 54.0	235.69	232.26	233.31	229.70	230.79	227.05	234.72	234.24	231.30	233.80	232.30	236.57
γ 55.0	228.83	225.74	226.68	223.11	224.21	220.56	228.02	227.93	224.70	227.26	225.68	229.89
γ 56.0	222.05	218.96	220.21	216.47	217.82	213.88	221.47	221.30	218.06	220.59	218.96	222.94
γ 57.0	215.40	212.14	213.62	209.94	211.17	207.37	214.63	214.62	211.61	213.98	212.30	216.29
γ 58.0	208.49	205.30	207.14	203.18	204.68	200.60	207.78	208.12	204.87	207.22	205.34	209.35
γ 59.0	201.77	198.38	200.40	196.63	197.95	193.99	201.11	201.40	197.94	200.50	198.49	202.40
γ 60.0	194.77	191.48	193.60	189.86	191.18	187.19	194.13	194.90	191.15	193.99	191.74	195.72
γ 61.0	187.74	184.79	186.99	183.11	184.66	180.43	187.16	188.14	184.14	187.24	184.91	188.76
γ 62.0	180.92	177.83	180.15	176.46	177.95	173.77	180.44	181.33	177.10	180.38	177.93	181.69
γ 63.0	173.86	170.84	173.29	169.61	171.13	166.88	173.43	174.65	170.28	173.60	171.12	174.71
γ 64.0	166.78	164.08	166.57	162.74	164.53	159.96	166.40	167.72	163.35	166.54	164.05	167.62
γ 65.0	159.92	157.10	159.51	156.05	157.70	153.27	159.60	160.73	156.20	159.42	157.04	160.59
γ 66.0	152.85	150.31	152.45	149.24	150.87	146.43	152.55	153.94	149.28	152.59	150.21	153.70
γ 67.0	145.78	143.29	145.50	142.40	144.26	139.58	145.50	146.90	142.30	145.52	143.22	146.62
γ 68.0	138.91	136.21	138.40	135.82	137.40	132.91	138.69	139.83	135.45	138.51	136.54	139.70
γ 69.0	131.84	129.30	131.32	128.79	130.54	126.07	131.62	132.94	128.37	131.62	129.54	132.56
γ 70.0	124.86	122.28	124.50	121.71	124.03	119.21	124.91	125.93	121.32	124.58	122.52	125.49
γ 71.0	118.03	115.19	117.49	114.86	117.23	112.60	117.88	118.93	114.43	117.64	115.76	118.63
γ 72.0	111.07	108.33	110.66	107.90	110.75	105.86	110.96	112.13	107.37	110.60	108.84	111.56
γ 73.0	104.33	101.21	103.64	101.19	104.03	99.35	104.29	105.13	100.35	103.60	101.98	104.61
γ 74.0	97.40	94.37	96.54	94.21	97.31	92.66	97.34	98.07	93.49	96.78	95.33	97.84
γ 75.0	90.50	87.28	89.78	87.33	90.85	86.02	90.51	91.28	86.49	89.76	88.52	90.89
γ 76.0	83.93	80.21	82.84	80.61	84.24	79.63	83.94	84.31	79.53	82.78	81.79	84.02
γ 77.0	77.17	73.42	75.86	73.74	77.66	73.10	77.23	77.41	72.82	76.05	75.30	77.43
γ 78.0	70.46	66.55	69.21	67.01	71.33	66.70	70.57	70.82	66.00	69.20	68.67	70.74
γ 79.0	64.08	59.72	62.35	60.52	64.89	60.59	64.21	64.04	59.21	62.40	62.14	64.13
γ 80.0	57.49	53.17	55.50	53.84	58.39	54.31	57.64	57.25	52.74	55.81	55.88	57.75
γ 81.0	51.11	46.45	49.01	47.27	52.25	48.15	51.26	50.72	46.11	49.13	49.56	51.27
γ 82.0	44.95	39.81	42.33	41.01	46.00	42.25	45.15	44.28	39.79	42.60	43.48	45.07
γ 83.0	38.67	33.54	35.74	34.58	39.80	36.27	38.93	38.47	33.43	36.90	37.32	38.80
γ 84.0	32.60	27.80	29.55	28.56	33.94	30.54	33.01	32.94	27.52	31.40	31.26	32.69
γ 85.0	26.78	22.43	23.40	23.35	27.98	25.09	27.03	27.33	22.62	26.09	25.52	26.87
γ 86.0	20.86	17.29	18.47	18.08	22.27	19.52	21.10	21.69	17.64	20.66	19.67	20.90
γ 87.0	15.17	12.06	13.52	13.02	16.49	14.00	15.36	16.28	12.80	15.30	13.97	14.99
γ 88.0	9.43	7.12	8.67	7.99	10.88	8.83	9.61	10.88	8.23	10.28	8.64	9.47
γ 89.0	4.05	2.31	4.07	3.07	5.53	3.71	4.31	5.90	3.72	5.36	3.40	4.29

IES Indoor Report
Photometric Filename:ETL 110V 15W.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 90.0	2.21	0.48	2.10	0.56	2.34	0.42	1.41	3.22	1.04	3.09	1.20	2.85
γ 91.0	2.01	0.41	1.87	0.43	2.07	0.20	1.17	2.88	0.87	2.79	1.02	2.57
γ 92.0	1.92	0.38	1.75	0.37	1.94	0.16	1.05	2.63	0.79	2.55	0.91	2.40
γ 93.0	1.88	0.39	1.71	0.39	1.88	0.21	0.99	2.46	0.76	2.38	0.88	2.29
γ 94.0	1.84	0.39	1.66	0.38	1.84	0.29	0.96	2.28	0.75	2.21	0.83	2.18
γ 95.0	1.82	0.37	1.61	0.34	1.80	0.34	0.93	2.13	0.74	2.10	0.80	2.08
γ 96.0	1.80	0.35	1.61	0.32	1.76	0.40	0.93	2.07	0.78	2.02	0.77	2.04
γ 97.0	1.81	0.41	1.60	0.36	1.70	0.46	0.98	2.06	0.83	2.02	0.83	2.06
γ 98.0	1.80	0.46	1.64	0.42	1.69	0.51	1.04	2.09	0.89	2.06	0.89	2.07
γ 99.0	1.81	0.52	1.64	0.49	1.69	0.59	1.10	2.11	0.98	2.07	0.96	2.10
γ 100.0	1.81	0.59	1.67	0.56	1.71	0.66	1.18	2.15	1.05	2.12	1.06	2.12
γ 101.0	1.82	0.67	1.69	0.61	1.74	0.74	1.27	2.19	1.15	2.14	1.13	2.16
γ 102.0	1.83	0.74	1.72	0.68	1.77	0.79	1.34	2.24	1.23	2.19	1.20	2.20
γ 103.0	1.85	0.81	1.75	0.74	1.80	0.85	1.43	2.27	1.30	2.23	1.27	2.23
γ 104.0	1.89	0.89	1.78	0.80	1.84	0.92	1.51	2.32	1.40	2.26	1.37	2.27
γ 105.0	1.93	0.95	1.81	0.87	1.87	0.98	1.61	2.38	1.47	2.32	1.45	2.34
γ 106.0	1.96	1.04	1.87	0.95	1.92	1.06	1.71	2.42	1.55	2.38	1.51	2.38
γ 107.0	2.01	1.12	1.90	1.01	1.96	1.12	1.77	2.49	1.64	2.41	1.61	2.44
γ 108.0	2.06	1.19	1.95	1.09	1.99	1.20	1.87	2.53	1.71	2.49	1.67	2.49
γ 109.0	2.10	1.25	1.98	1.16	2.03	1.29	1.97	2.60	1.78	2.53	1.76	2.54
γ 110.0	2.16	1.36	2.03	1.24	2.08	1.35	2.06	2.65	1.87	2.61	1.84	2.60
γ 111.0	2.20	1.41	2.08	1.31	2.12	1.42	2.13	2.70	1.94	2.67	1.91	2.66
γ 112.0	2.25	1.47	2.13	1.38	2.17	1.51	2.24	2.76	2.03	2.72	1.98	2.73
γ 113.0	2.30	1.55	2.19	1.45	2.22	1.58	2.32	2.82	2.10	2.77	2.05	2.79
γ 114.0	2.35	1.62	2.21	1.53	2.26	1.64	2.39	2.88	2.18	2.81	2.13	2.85
γ 115.0	2.40	1.70	2.28	1.60	2.31	1.71	2.47	2.94	2.25	2.88	2.20	2.91
γ 116.0	2.45	1.78	2.32	1.65	2.36	1.78	2.55	3.00	2.33	2.93	2.28	2.97
γ 117.0	2.51	1.83	2.36	1.74	2.41	1.86	2.64	3.05	2.40	2.99	2.36	3.02
γ 118.0	2.54	1.91	2.43	1.79	2.46	1.92	2.72	3.11	2.47	3.04	2.42	3.08
γ 119.0	2.62	1.96	2.47	1.89	2.50	2.00	2.81	3.16	2.55	3.09	2.50	3.14
γ 120.0	2.67	2.04	2.50	1.96	2.55	2.08	2.89	3.23	2.62	3.16	2.56	3.20
γ 121.0	2.74	2.10	2.56	2.04	2.61	2.13	2.97	3.28	2.69	3.20	2.63	3.26
γ 122.0	2.80	2.18	2.64	2.12	2.66	2.20	3.05	3.33	2.74	3.26	2.71	3.31
γ 123.0	2.86	2.25	2.68	2.19	2.70	2.26	3.11	3.40	2.81	3.30	2.78	3.38
γ 124.0	2.91	2.30	2.73	2.24	2.75	2.32	3.20	3.45	2.89	3.37	2.85	3.43
γ 125.0	2.97	2.38	2.78	2.33	2.78	2.38	3.29	3.52	2.94	3.42	2.91	3.48
γ 126.0	3.06	2.43	2.84	2.40	2.84	2.45	3.35	3.58	3.01	3.48	2.98	3.54
γ 127.0	3.10	2.50	2.89	2.46	2.89	2.52	3.44	3.62	3.07	3.54	3.03	3.60
γ 128.0	3.17	2.58	2.93	2.53	2.96	2.58	3.52	3.69	3.14	3.61	3.09	3.66
γ 129.0	3.21	2.63	2.99	2.61	2.99	2.64	3.58	3.75	3.20	3.66	3.15	3.71
γ 130.0	3.29	2.71	3.03	2.67	3.04	2.70	3.65	3.80	3.25	3.71	3.21	3.77
γ 131.0	3.33	2.76	3.09	2.75	3.09	2.78	3.73	3.86	3.31	3.76	3.28	3.83
γ 132.0	3.38	2.83	3.14	2.80	3.15	2.83	3.80	3.91	3.37	3.81	3.34	3.88
γ 133.0	3.44	2.88	3.19	2.85	3.20	2.89	3.88	3.96	3.45	3.85	3.38	3.90
γ 134.0	3.49	2.95	3.25	2.93	3.25	2.95	3.93	4.01	3.48	3.89	3.44	3.93

IES Indoor Report
Photometric Filename:ETL 110V 15W.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 135.0	3.56	2.97	3.29	2.98	3.30	2.99	3.98	4.05	3.55	3.95	3.49	3.97
γ 136.0	3.62	3.03	3.34	3.04	3.34	3.05	4.05	4.10	3.60	3.99	3.53	4.01
γ 137.0	3.67	3.08	3.39	3.10	3.40	3.14	4.12	4.16	3.65	4.01	3.58	4.05
γ 138.0	3.74	3.17	3.45	3.16	3.47	3.19	4.16	4.21	3.68	4.05	3.62	4.11
γ 139.0	3.82	3.25	3.53	3.24	3.54	3.28	4.23	4.24	3.75	4.08	3.66	4.14
γ 140.0	3.88	3.32	3.58	3.28	3.59	3.35	4.27	4.28	3.79	4.12	3.70	4.18
γ 141.0	3.93	3.39	3.63	3.34	3.65	3.42	4.31	4.33	3.83	4.14	3.75	4.22
γ 142.0	3.98	3.44	3.67	3.39	3.68	3.47	4.36	4.36	3.88	4.17	3.78	4.26
γ 143.0	4.01	3.50	3.71	3.44	3.74	3.52	4.39	4.39	3.91	4.19	3.82	4.29
γ 144.0	4.06	3.57	3.75	3.48	3.76	3.58	4.43	4.42	3.95	4.21	3.86	4.34
γ 145.0	4.10	3.62	3.79	3.52	3.80	3.63	4.47	4.48	3.99	4.23	3.90	4.37
γ 146.0	4.13	3.68	3.82	3.56	3.84	3.69	4.53	4.53	4.03	4.26	3.93	4.42
γ 147.0	4.16	3.72	3.85	3.59	3.88	3.75	4.55	4.56	4.06	4.29	3.97	4.45
γ 148.0	4.20	3.77	3.88	3.63	3.92	3.80	4.59	4.61	4.10	4.30	4.01	4.47
γ 149.0	4.23	3.82	3.92	3.67	3.95	3.86	4.63	4.65	4.15	4.33	4.05	4.52
γ 150.0	4.27	3.89	3.95	3.71	4.00	3.91	4.66	4.70	4.17	4.35	4.07	4.53
γ 151.0	4.31	3.93	3.98	3.74	4.05	3.96	4.70	4.72	4.23	4.34	4.12	4.57
γ 152.0	4.38	3.98	4.00	3.79	4.09	4.02	4.74	4.75	4.26	4.32	4.15	4.60
γ 153.0	4.40	4.02	4.05	3.83	4.15	4.06	4.76	4.79	4.31	4.29	4.17	4.61
γ 154.0	4.44	4.04	4.08	3.87	4.18	4.10	4.79	4.79	4.36	4.28	4.22	4.65
γ 155.0	4.47	4.09	4.11	3.90	4.23	4.15	4.83	4.82	4.40	4.30	4.25	4.66
γ 156.0	4.51	4.11	4.16	3.95	4.29	4.18	4.86	4.84	4.45	4.34	4.28	4.67
γ 157.0	4.55	4.17	4.19	4.00	4.32	4.22	4.89	4.86	4.47	4.39	4.30	4.68
γ 158.0	4.58	4.18	4.23	4.05	4.37	4.25	4.93	4.87	4.53	4.43	4.33	4.71
γ 159.0	4.61	4.23	4.26	4.08	4.44	4.30	4.94	4.89	4.56	4.48	4.37	4.73
γ 160.0	4.64	4.26	4.30	4.13	4.47	4.33	4.97	4.92	4.60	4.50	4.38	4.75
γ 161.0	4.67	4.28	4.33	4.18	4.52	4.38	4.98	4.93	4.65	4.54	4.43	4.77
γ 162.0	4.70	4.31	4.37	4.24	4.58	4.41	5.01	4.96	4.68	4.60	4.47	4.79
γ 163.0	4.74	4.36	4.39	4.29	4.63	4.46	5.07	4.98	4.74	4.65	4.49	4.81
γ 164.0	4.77	4.40	4.44	4.36	4.67	4.51	5.09	5.01	4.78	4.70	4.53	4.84
γ 165.0	4.82	4.44	4.49	4.41	4.73	4.56	5.12	5.03	4.82	4.76	4.56	4.86
γ 166.0	4.87	4.51	4.54	4.46	4.78	4.64	5.16	5.06	4.86	4.81	4.62	4.89
γ 167.0	4.90	4.55	4.57	4.53	4.84	4.67	5.18	5.11	4.90	4.85	4.65	4.90
γ 168.0	4.95	4.63	4.64	4.57	4.90	4.71	5.22	5.12	4.95	4.90	4.70	4.94
γ 169.0	4.99	4.68	4.68	4.64	4.96	4.79	5.25	5.15	4.98	4.96	4.76	4.96
γ 170.0	5.03	4.72	4.74	4.71	5.02	4.83	5.28	5.18	5.03	4.99	4.80	5.00
γ 171.0	5.06	4.77	4.81	4.78	5.08	4.86	5.30	5.22	5.07	5.05	4.84	5.03
γ 172.0	5.11	4.83	4.88	4.84	5.13	4.90	5.33	5.25	5.11	5.10	4.89	5.08
γ 173.0	5.14	4.88	4.95	4.91	5.18	4.94	5.35	5.27	5.16	5.15	4.96	5.11
γ 174.0	5.19	4.93	5.01	4.99	5.25	4.99	5.40	5.29	5.22	5.21	5.03	5.14
γ 175.0	5.23	4.99	5.09	5.07	5.29	5.02	5.41	5.32	5.26	5.26	5.08	5.18
γ 176.0	5.26	5.04	5.17	5.15	5.33	5.07	5.44	5.34	5.30	5.34	5.15	5.22
γ 177.0	5.31	5.08	5.24	5.24	5.37	5.12	5.47	5.37	5.36	5.42	5.20	5.25
γ 178.0	5.36	5.14	5.33	5.34	5.42	5.16	5.51	5.39	5.39	5.48	5.29	5.29
γ 179.0	5.42	5.24	5.40	5.39	5.45	5.20	5.54	5.38	5.39	5.51	5.31	5.29

IES Indoor Report
Photometric Filename:ETL 110V 15W.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 180.0	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41	5.41

