

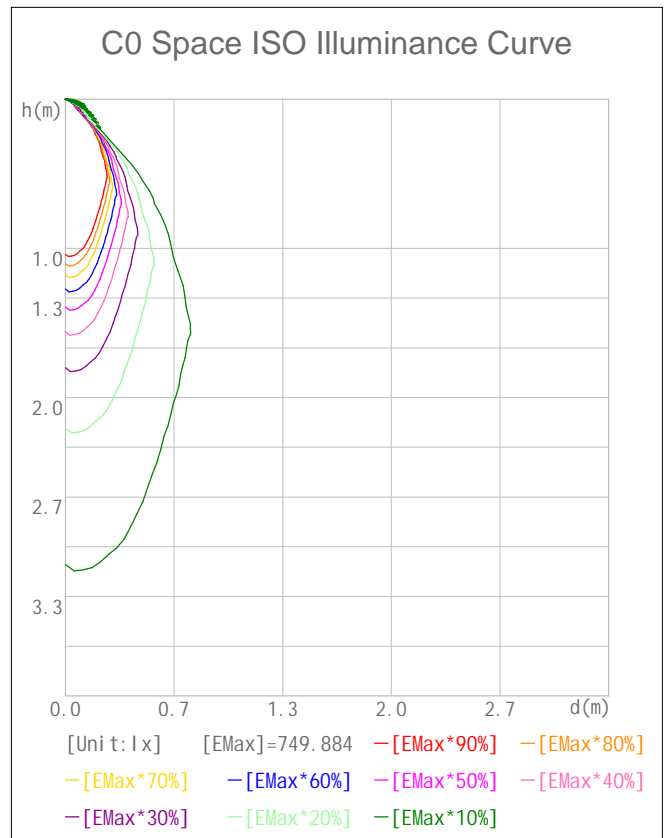
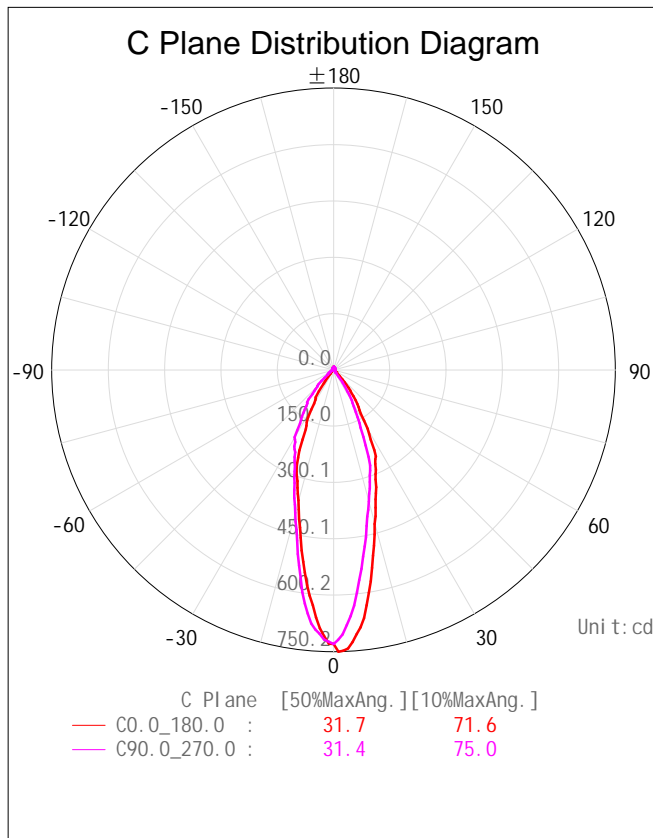
Indoor Luminaire Photometric Data

Description Information

Luminary Name:		Lum. Catalog:	Test ID:
Lamp Name: LED		Lamp Catalog: 1	Test Date: 2020/06/23
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):
Test System: C, γ	Test Step: C=30.0 γ=1.0	Temp. (°C): 25	Humidity(%): 50.0

Character Parameter

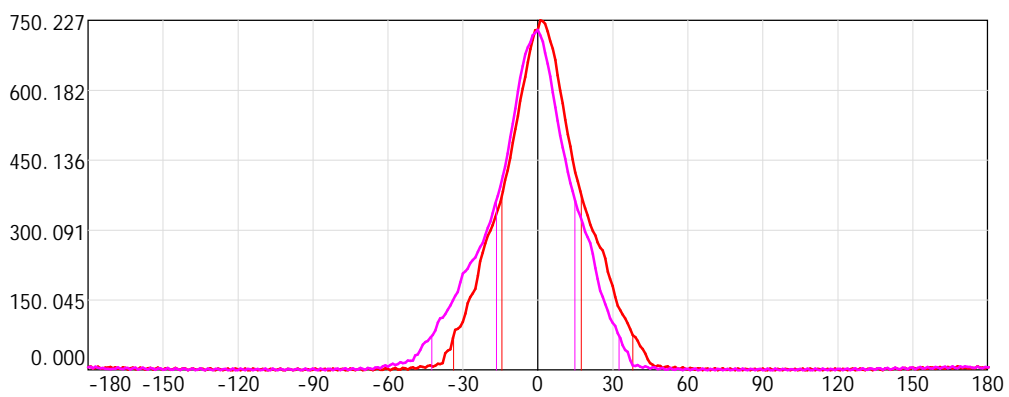
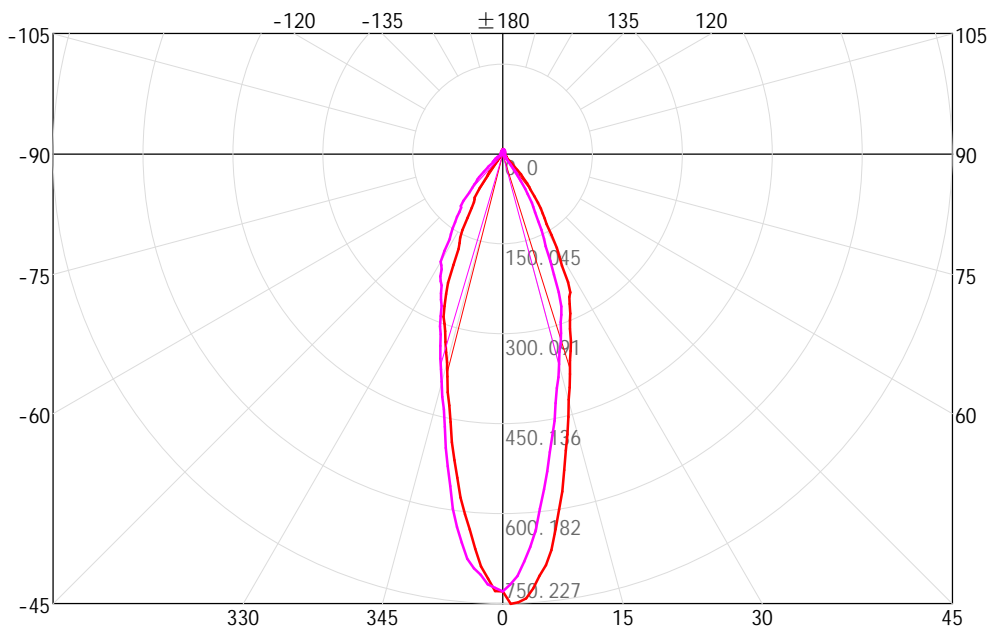
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1.000		Luminary Flux(lm): 359.395	Field Angle(10%Imax): 71.6(°)
Rated Power(W):		Luminary Efficiency: 35939.49%	Down Lumens&Percent: 346.790lm 96.49%
Rated Voltage(V):		Luminary EER(lm/W): 41.674	Up Lumens&Percent: 12.605lm 3.51%
Tested Power(W): 8.624		Max. Candela(cd): 750.227	S/MH: C0_a180=0.522 C90_270=0.497
Lamps' Inside: 1		Max Cand@Ang.(°): C=0.0 γ=1.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf): 12.5, 0.838, 0.820		Beam Angle(50%Imax): 31.7(°)	ErP Φuse(90°): 323.938lm
Lamp Size(W*L*H): 0.000m*0.000m*0.000m		Left=-14.3°, Right=17.4°	IRF(%): 419.834



2D Plane Light Intensity Distribution Curve

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

C Plane Distribution Diagram

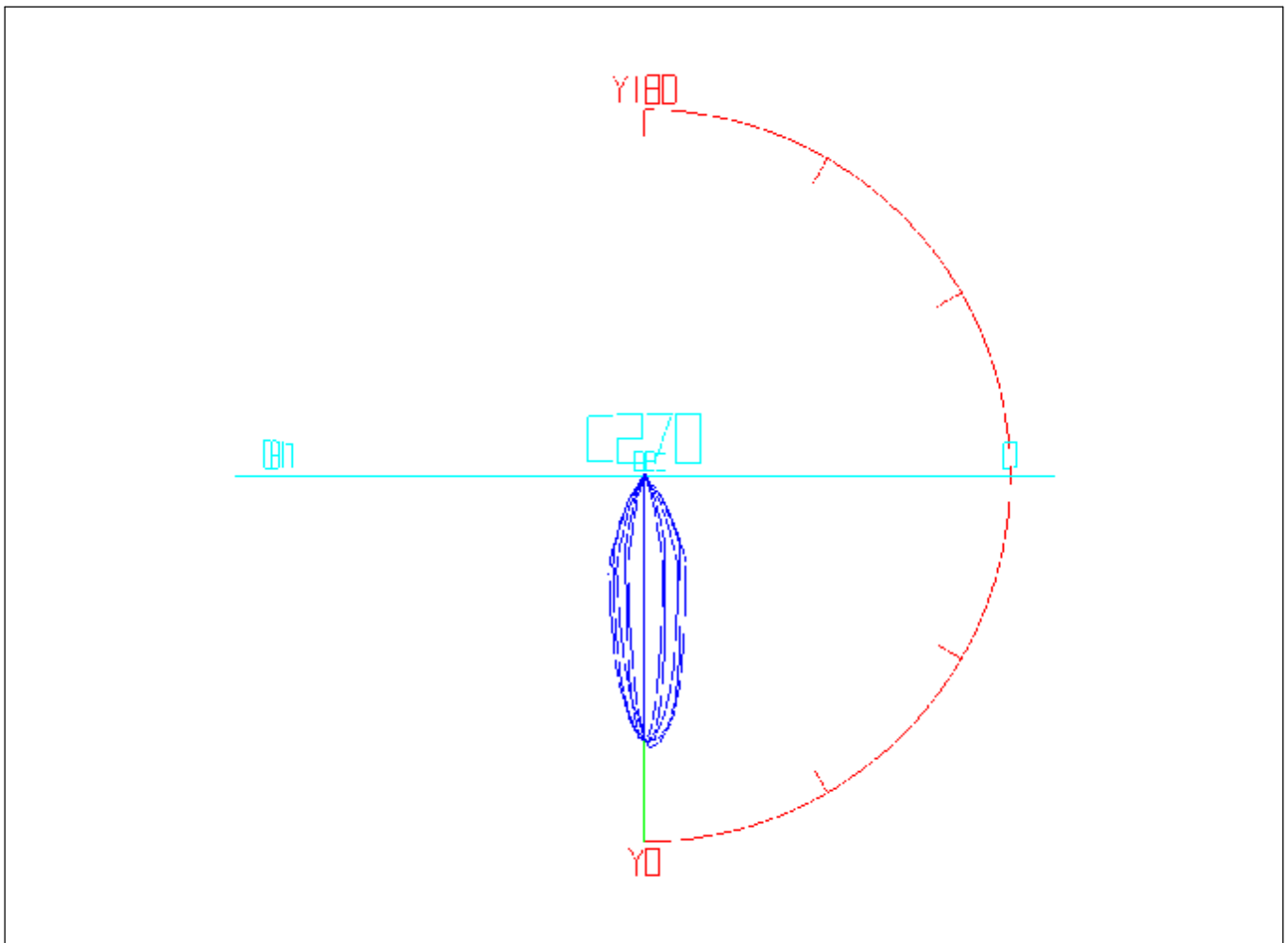


	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit: cd
—	C0.0_180.0 :	31.7	71.6	
—	C90.0_270.0 :	31.4	75.0	

3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

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:IWH2301LL-7.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	0.70	0.70	69.51	69.51	44.0-45.0	1.82	1.82	181.68	181.68
1.0-2.0	2.06	2.76	206.09	275.60	45.0-46.0	1.61	3.42	160.55	342.23
2.0-3.0	3.37	6.13	337.32	612.93	46.0-47.0	1.39	4.82	139.46	481.69
3.0-4.0	4.60	10.73	460.34	1073.26	47.0-48.0	1.14	5.96	114.11	595.80
4.0-5.0	5.73	16.46	572.83	1646.09	48.0-49.0	0.91	6.87	91.17	686.97
5.0-6.0	6.74	23.20	674.18	2320.27	49.0-50.0	0.76	7.63	76.20	763.18
6.0-7.0	7.64	30.84	763.99	3084.26	50.0-51.0	0.67	8.30	66.52	829.69
7.0-8.0	8.40	39.24	839.77	3924.03	51.0-52.0	0.59	8.89	59.23	888.92
8.0-9.0	9.01	48.25	901.10	4825.13	52.0-53.0	0.53	9.42	52.67	941.59
9.0-10.0	9.51	57.77	951.41	5776.54	53.0-54.0	0.52	9.93	51.64	993.24
10.0-11.0	9.92	67.69	992.43	6768.97	54.0-55.0	0.50	10.43	49.51	1042.75
11.0-12.0	10.24	77.93	1023.88	7792.85	55.0-56.0	0.43	10.85	42.56	1085.31
12.0-13.0	10.49	88.42	1049.21	8842.07	56.0-57.0	0.41	11.26	40.69	1125.99
13.0-14.0	10.71	99.13	1071.17	9913.23	57.0-58.0	0.42	11.68	42.05	1168.04
14.0-15.0	10.87	110.00	1087.04	11000.28	58.0-59.0	0.37	12.05	36.78	1204.82
15.0-16.0	10.97	120.98	1097.27	12097.55	59.0-60.0	0.33	12.37	32.56	1237.38
16.0-17.0	11.06	132.03	1105.84	13203.38	60.0-61.0	0.35	12.72	35.09	1272.47
17.0-18.0	11.13	143.16	1112.54	14315.93	61.0-62.0	0.33	13.05	32.86	1305.33
18.0-19.0	11.17	154.33	1116.66	15432.59	62.0-63.0	0.26	13.32	26.42	1331.75
19.0-20.0	11.20	165.52	1119.90	16552.49	63.0-64.0	0.27	13.59	27.13	1358.89
20.0-21.0	11.18	176.71	1118.04	17670.54	64.0-65.0	0.28	13.87	27.76	1386.65
21.0-22.0	11.05	187.75	1104.93	18775.46	65.0-66.0	0.22	14.09	22.13	1408.78
22.0-23.0	10.81	198.57	1081.26	19856.73	66.0-67.0	0.21	14.29	20.62	1429.39
23.0-24.0	10.49	209.06	1048.88	20905.61	67.0-68.0	0.24	14.53	23.61	1453.01
24.0-25.0	10.13	219.18	1012.61	21918.21	68.0-69.0	0.21	14.74	20.65	1473.66
25.0-26.0	9.82	229.00	981.52	22899.73	69.0-70.0	0.17	14.90	16.74	1490.40
26.0-27.0	9.47	238.47	947.41	23847.14	70.0-71.0	0.20	15.10	19.73	1510.13
27.0-28.0	9.08	247.55	908.05	24755.19	71.0-72.0	0.20	15.30	20.19	1530.32
28.0-29.0	8.70	256.25	869.96	25625.15	72.0-73.0	0.17	15.48	17.25	1547.57
29.0-30.0	8.30	264.55	829.76	26454.92	73.0-74.0	0.18	15.65	17.67	1565.24
30.0-31.0	7.89	272.44	789.43	27244.34	74.0-75.0	0.19	15.84	19.03	1584.28
31.0-32.0	7.35	279.79	734.55	27978.89	75.0-76.0	0.18	16.02	17.92	1602.19
32.0-33.0	6.71	286.50	671.45	28650.34	76.0-77.0	0.16	16.18	16.16	1618.35
33.0-34.0	6.18	292.68	617.72	29268.06	77.0-78.0	0.16	16.35	16.22	1634.57
34.0-35.0	5.63	298.31	563.28	29831.35	78.0-79.0	0.17	16.52	17.16	1651.73
35.0-36.0	5.07	303.38	506.61	30337.95	79.0-80.0	0.17	16.69	17.27	1669.00
36.0-37.0	4.51	307.89	451.06	30789.01	80.0-81.0	0.14	16.83	14.31	1683.31
37.0-38.0	3.98	311.87	398.24	31187.25	81.0-82.0	0.15	16.99	15.46	1698.77
38.0-39.0	3.55	315.42	355.12	31542.37	82.0-83.0	0.18	17.17	18.45	1717.21
39.0-40.0	3.23	318.66	323.39	31865.76	83.0-84.0	0.15	17.32	14.59	1731.80
40.0-41.0	2.93	321.59	293.18	32158.94	84.0-85.0	0.14	17.45	13.61	1745.42
41.0-42.0	2.60	324.19	260.11	32419.05	85.0-86.0	0.18	17.64	18.22	1763.64
42.0-43.0	2.30	326.49	229.94	32648.99	86.0-87.0	0.17	17.81	17.12	1780.76
43.0-44.0	2.04	328.53	204.38	32853.37	87.0-88.0	0.11	17.92	11.01	1791.77

IES Indoor Report
Photometric Filename:IWH2301LL-7.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
88.0-89.0	0.15	0.15	14.83	14.83	132.0-133.0	0.14	0.14	13.93	13.93
89.0-90.0	0.19	0.34	19.04	33.87	133.0-134.0	0.13	0.27	13.23	27.16
90.0-91.0	0.12	0.46	11.92	45.79	134.0-135.0	0.18	0.45	17.70	44.86
91.0-92.0	0.12	0.58	11.80	57.59	135.0-136.0	0.17	0.62	17.33	62.19
92.0-93.0	0.19	0.77	19.33	76.93	136.0-137.0	0.14	0.76	13.88	76.08
93.0-94.0	0.15	0.92	15.14	92.07	137.0-138.0	0.16	0.92	16.15	92.23
94.0-95.0	0.09	1.01	8.85	100.92	138.0-139.0	0.19	1.11	18.90	111.13
95.0-96.0	0.17	1.18	16.94	117.86	139.0-140.0	0.16	1.27	15.93	127.06
96.0-97.0	0.18	1.36	17.85	135.71	140.0-141.0	0.15	1.42	15.42	142.48
97.0-98.0	0.10	1.46	9.98	145.69	141.0-142.0	0.19	1.61	19.02	161.49
98.0-99.0	0.14	1.59	13.80	159.49	142.0-143.0	0.18	1.80	18.24	179.73
99.0-100.0	0.19	1.78	18.86	178.35	143.0-144.0	0.16	1.96	16.02	195.75
100.0-101.0	0.14	1.92	14.13	192.48	144.0-145.0	0.19	2.14	18.51	214.26
101.0-102.0	0.11	2.03	10.57	203.05	145.0-146.0	0.20	2.34	19.85	234.11
102.0-103.0	0.17	2.20	16.96	220.00	146.0-147.0	0.17	2.52	17.42	251.52
103.0-104.0	0.16	2.36	16.43	236.43	147.0-148.0	0.18	2.69	17.60	269.12
104.0-105.0	0.10	2.46	10.00	246.43	148.0-149.0	0.20	2.89	19.65	288.77
105.0-106.0	0.14	2.61	14.14	260.58	149.0-150.0	0.18	3.07	18.48	307.25
106.0-107.0	0.17	2.78	17.00	277.58	150.0-151.0	0.17	3.25	17.31	324.56
107.0-108.0	0.13	2.90	12.56	290.14	151.0-152.0	0.19	3.43	18.84	343.40
108.0-109.0	0.11	3.01	11.30	301.43	152.0-153.0	0.19	3.62	18.86	362.26
109.0-110.0	0.15	3.16	15.06	316.49	153.0-154.0	0.17	3.80	17.47	379.73
110.0-111.0	0.15	3.32	15.27	331.76	154.0-155.0	0.18	3.98	17.87	397.61
111.0-112.0	0.12	3.44	11.76	343.52	155.0-156.0	0.18	4.16	18.15	415.76
112.0-113.0	0.13	3.56	12.54	356.06	156.0-157.0	0.17	4.33	17.00	432.76
113.0-114.0	0.16	3.73	16.46	372.52	157.0-158.0	0.17	4.49	16.68	449.43
114.0-115.0	0.15	3.87	14.66	387.18	158.0-159.0	0.17	4.66	16.97	466.40
115.0-116.0	0.11	3.98	11.18	398.37	159.0-160.0	0.16	4.82	16.10	482.50
116.0-117.0	0.15	4.13	14.99	413.36	160.0-161.0	0.15	4.98	15.44	497.94
117.0-118.0	0.16	4.30	16.15	429.51	161.0-162.0	0.16	5.13	15.54	513.48
118.0-119.0	0.12	4.42	12.14	441.65	162.0-163.0	0.15	5.28	14.82	528.30
119.0-120.0	0.12	4.54	12.03	453.69	163.0-164.0	0.14	5.42	13.93	542.23
120.0-121.0	0.16	4.70	15.82	469.51	164.0-165.0	0.14	5.56	13.73	555.96
121.0-122.0	0.15	4.85	15.24	484.75	165.0-166.0	0.13	5.69	13.15	569.12
122.0-123.0	0.11	4.96	11.15	495.90	166.0-167.0	0.12	5.81	12.14	581.25
123.0-124.0	0.15	5.11	14.72	510.62	167.0-168.0	0.12	5.93	11.58	592.84
124.0-125.0	0.17	5.28	17.31	527.93	168.0-169.0	0.11	6.04	11.07	603.91
125.0-126.0	0.13	5.41	12.66	540.59	169.0-170.0	0.10	6.14	10.01	613.92
126.0-127.0	0.12	5.53	12.31	552.90	170.0-171.0	0.09	6.23	9.16	623.09
127.0-128.0	0.17	5.69	16.54	569.44	171.0-172.0	0.08	6.31	8.35	631.44
128.0-129.0	0.16	5.86	16.12	585.56	172.0-173.0	0.07	6.39	7.36	638.80
129.0-130.0	0.12	5.98	12.38	597.94	173.0-174.0	0.06	6.45	6.42	645.22
130.0-131.0	0.15	6.13	14.85	612.79	174.0-175.0	0.05	6.51	5.44	650.66
131.0-132.0	0.18	6.31	17.78	630.57	175.0-176.0	0.05	6.55	4.66	655.32

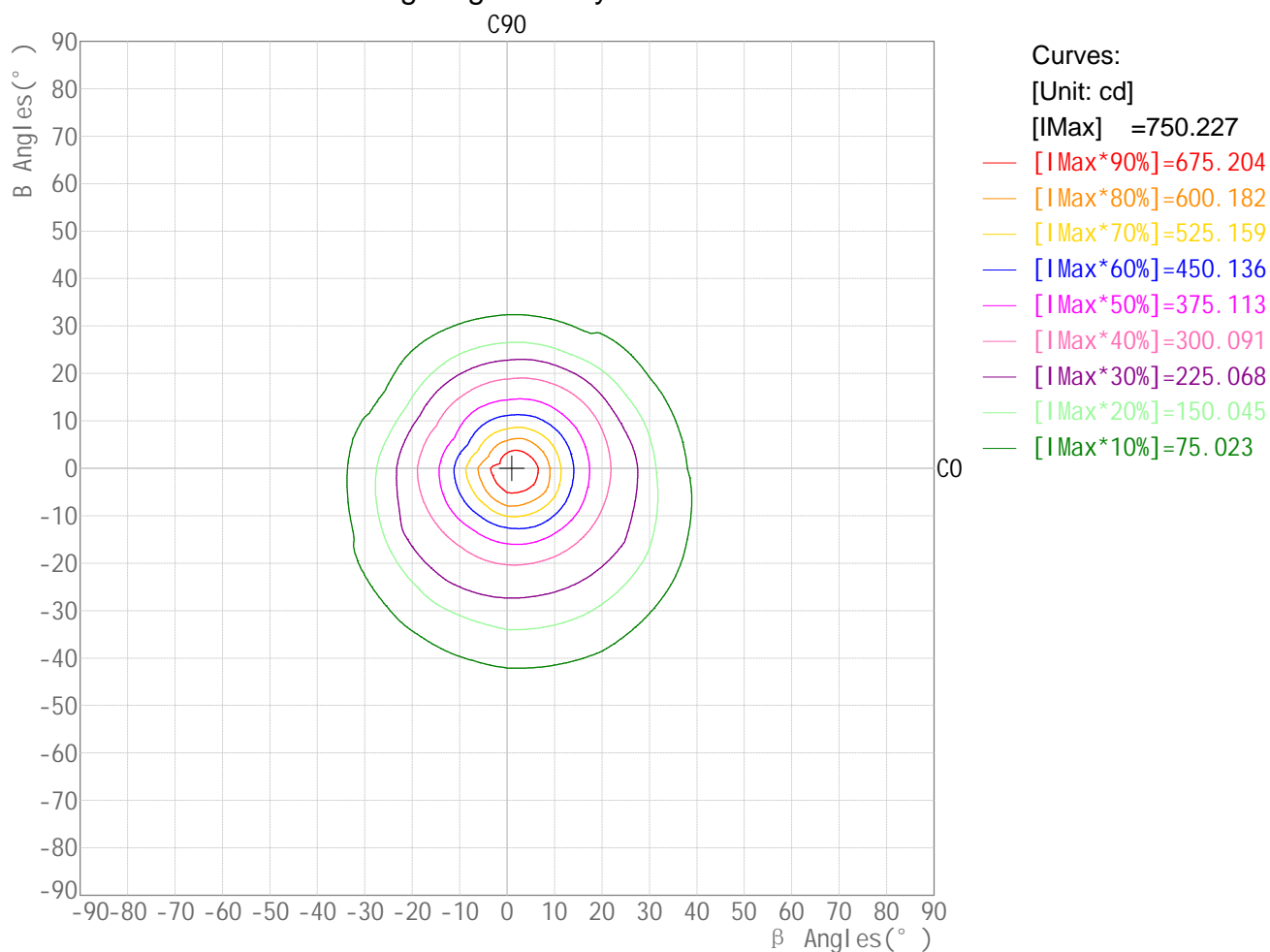
Zonal Flux Tabulation - (Cont.)

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
176.0-177.0	0.04	0.04	3.71	3.71
177.0-178.0	0.03	0.06	2.57	6.28
178.0-179.0	0.02	0.08	1.61	7.89
179.0-180.0	0.01	0.08	0.57	8.46

Rectangle ISO Lighting Intensity Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

ISO Lighting Intensity Curve

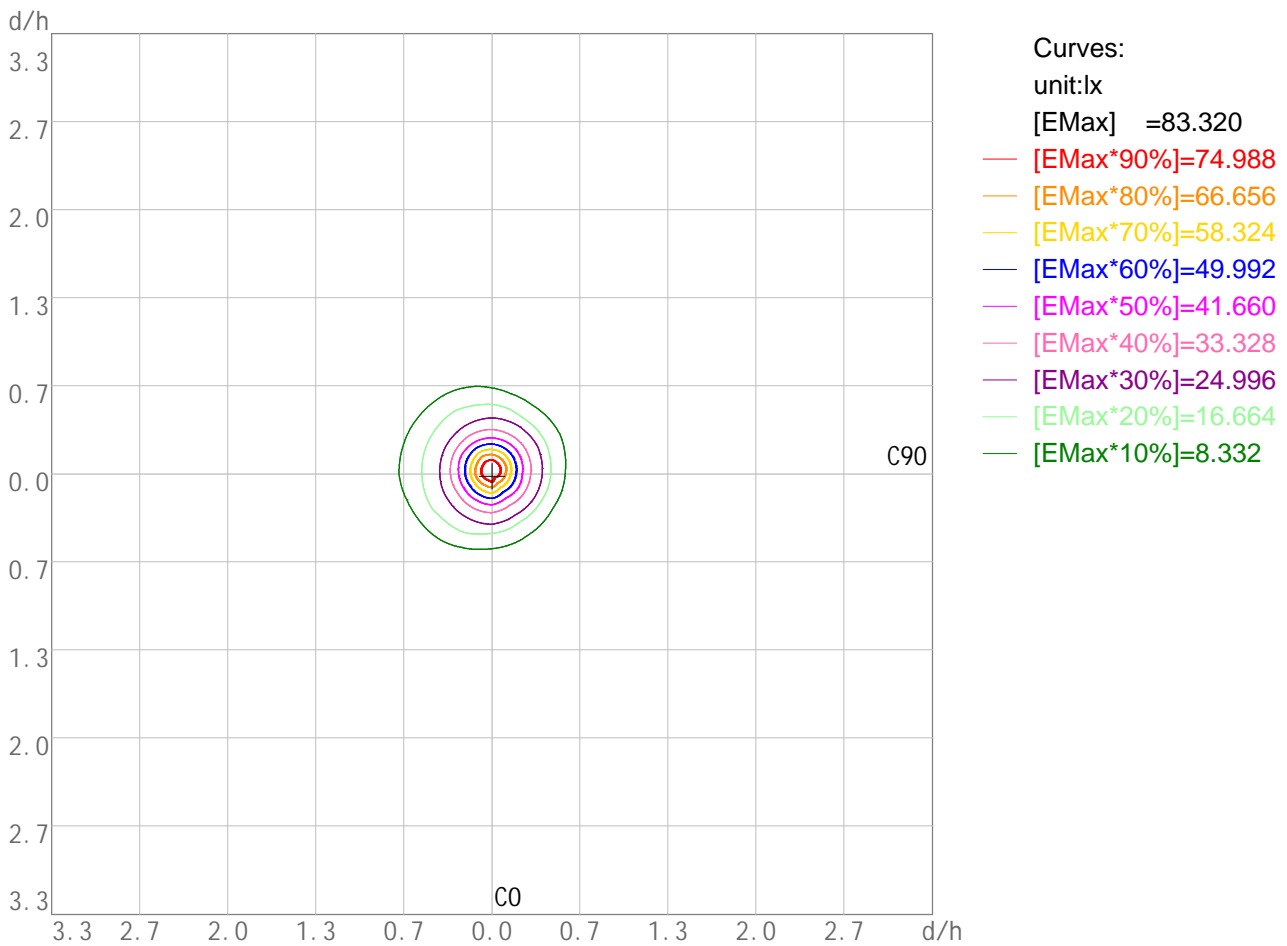


Maximum Light Intensity(cd): 750.23
 Maximum Cand.@Angle: H=1.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

Plane ISO-Illuminance Curve

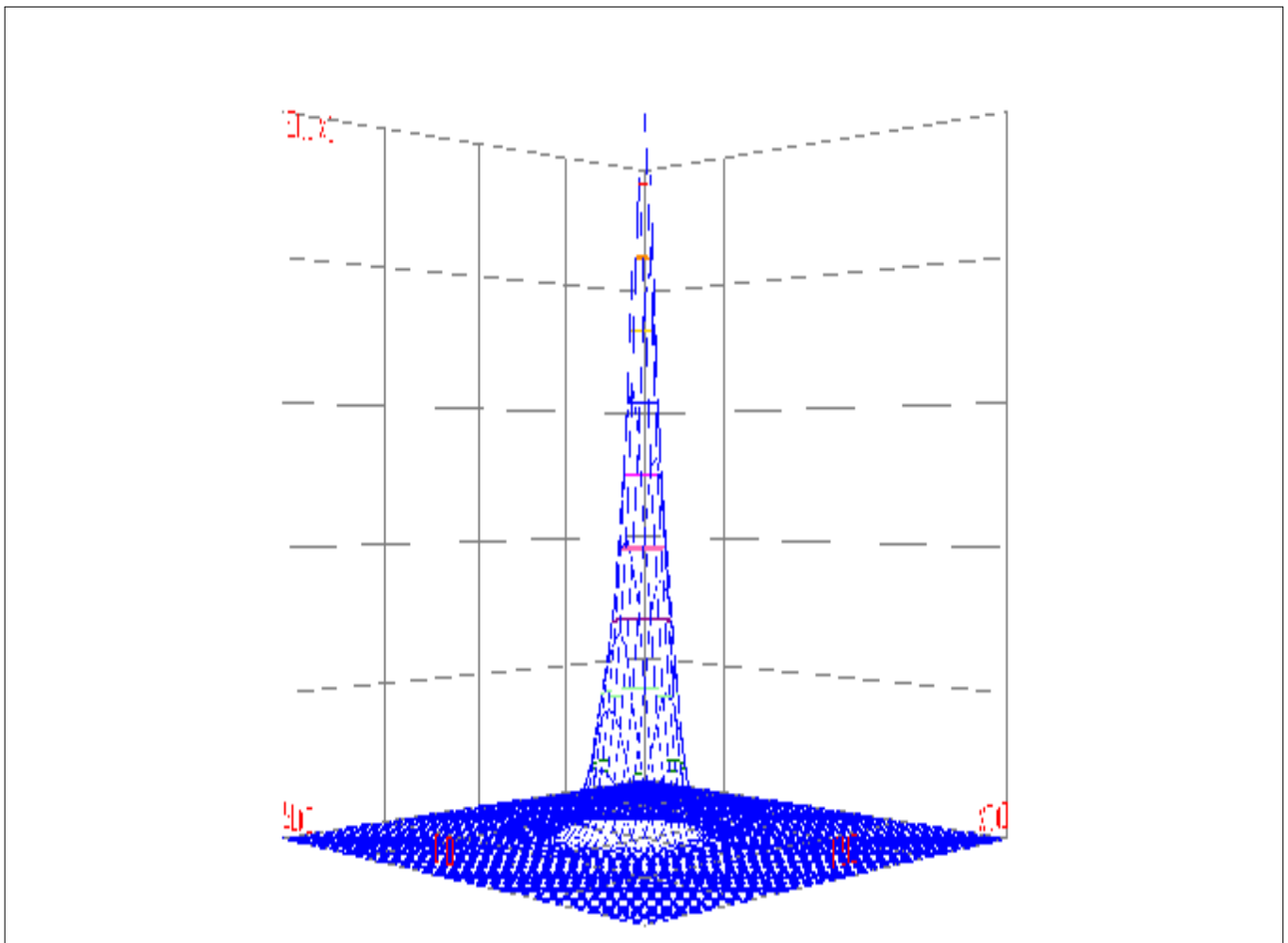


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 83.32
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

3D Plane Illuminance Modal

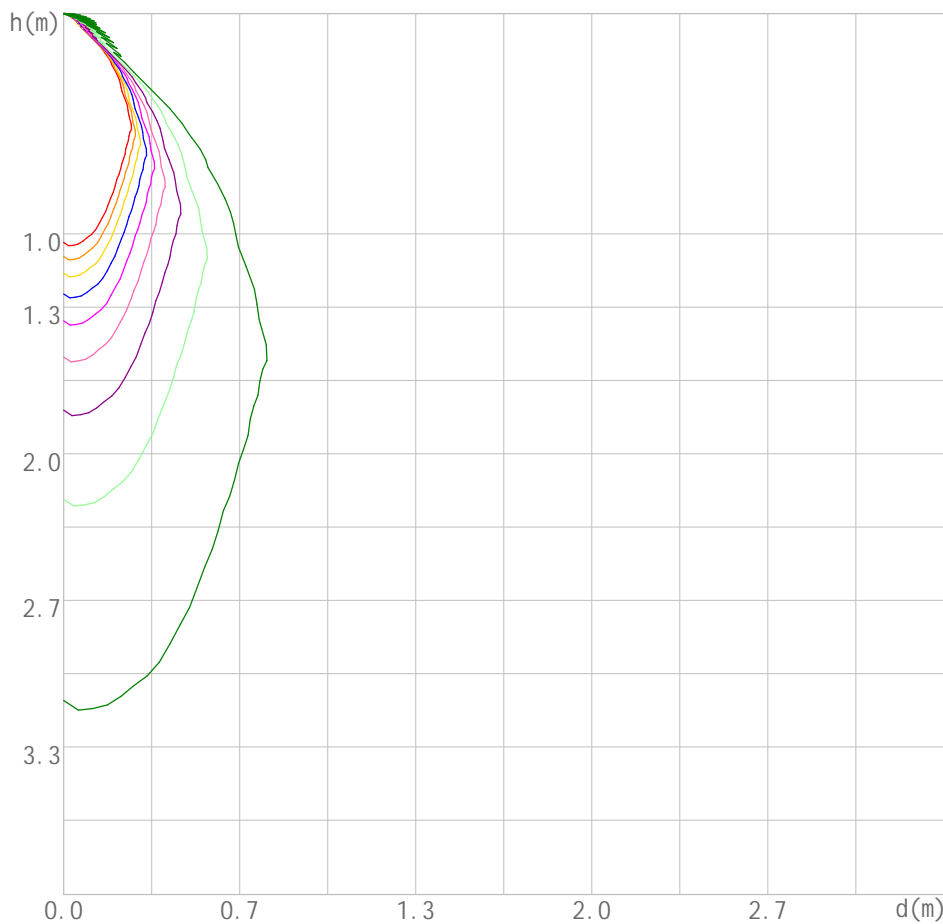


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

Space ISO Illuminance Curve



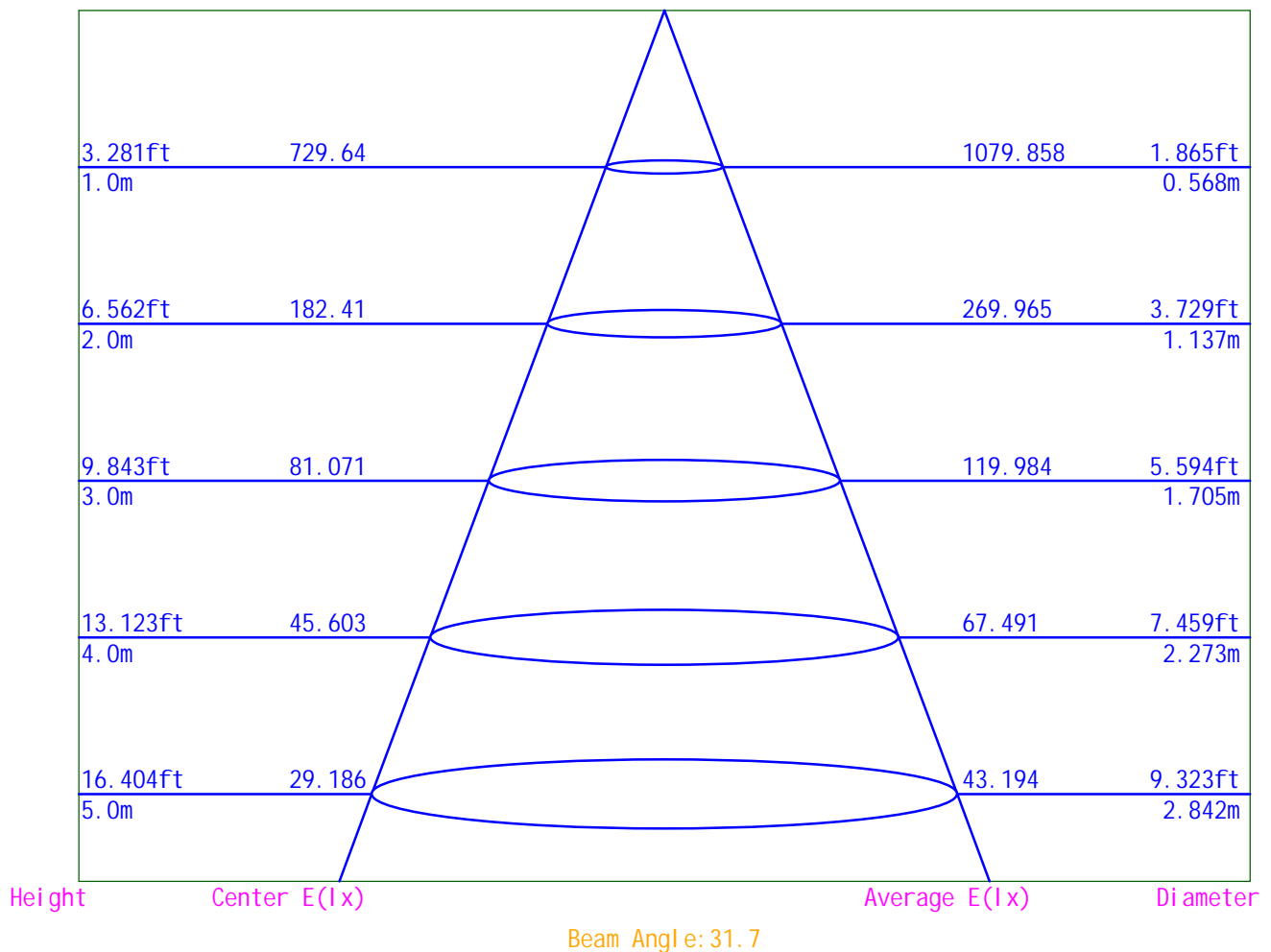
- Curves:
 [Unit: lx]
 [EMax] =749.884
- [EMax*90%]=674.896
 - [EMax*80%]=599.907
 - [EMax*70%]=524.919
 - [EMax*60%]=449.931
 - [EMax*50%]=374.942
 - [EMax*40%]=299.954
 - [EMax*30%]=224.965
 - [EMax*20%]=149.977
 - [EMax*10%]=74.988

Space Plane Maximum Illuminance and @Angle:749.88lx,1.0deg
 Plane Maximum Lighting Intensity and @Angle:750.227cd,0deg

Illuminance-Distance Diagram

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

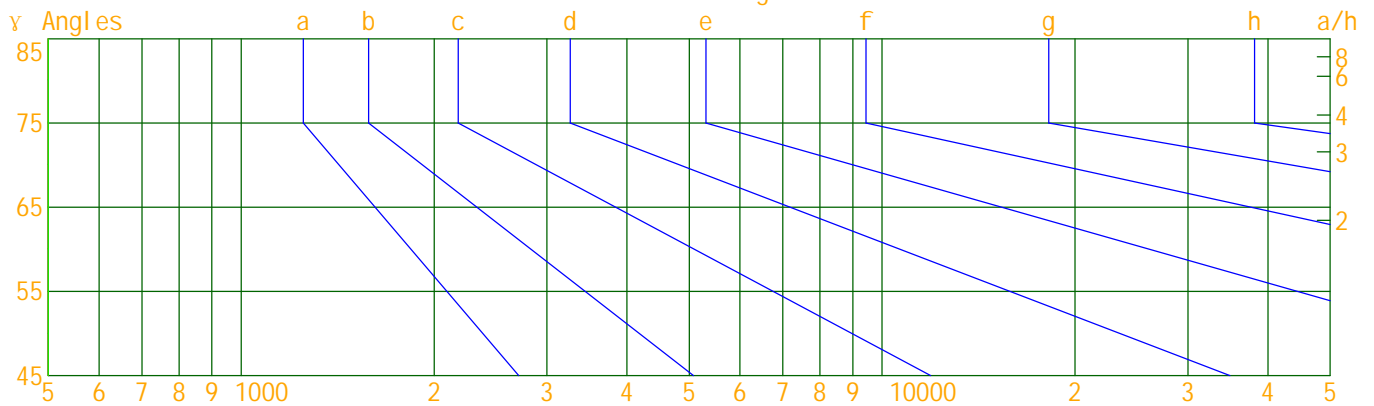
Glare Grade Table

Gl	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

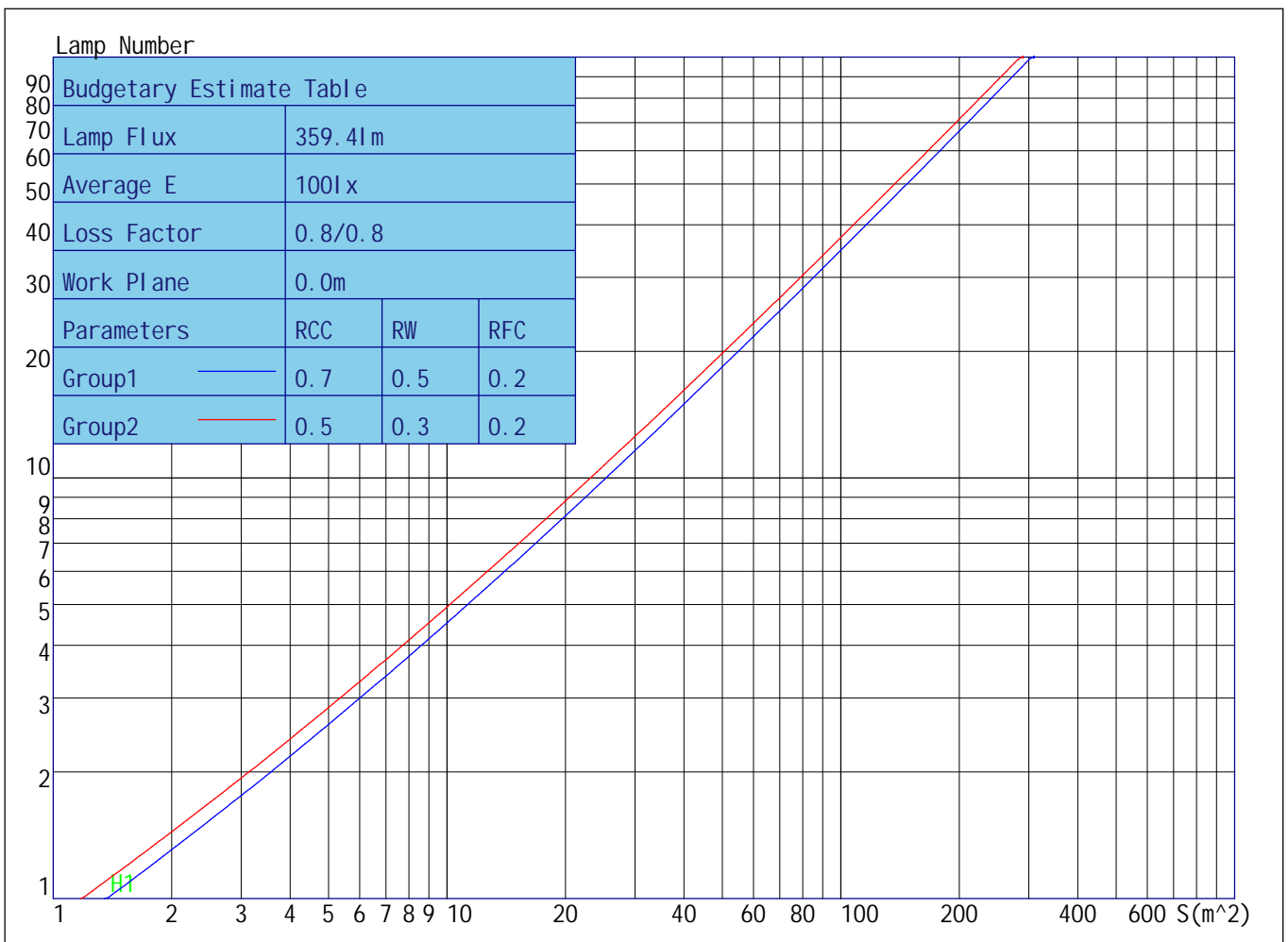
Luminance Limiting Curve



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:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23



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

IES Indoor Report

Photometric Filename: IWH2301LL-7.IES

Indoor Coefficient of Utilization Table

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

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	42485	42485	42485	42485	41350	41350	41350	41350	39233	39233	39233	37295	37295	37295	35515	35515	35515	34679
1	40476	39474	38576	37768	39462	38575	37775	37049	36898	36260	35683	35344	34853	34397	33919	33542	33190	32467
2	38536	36807	35377	34174	37627	36083	34792	33695	34723	33676	32770	33469	32627	31888	32309	31648	31045	30392
3	36698	34444	32704	31319	35875	33852	32264	30984	32738	31419	30334	31705	30619	29706	30742	29862	29102	28494
4	34953	32336	30420	28953	34219	31847	30082	28716	30922	29428	28245	30064	28802	27782	29262	28213	27342	26770
5	33322	30447	28432	26955	32668	30032	28172	26777	29262	27652	26427	28542	27165	26082	27862	26694	25750	25206
6	31792	28742	26692	25230	31192	28400	26482	25092	27742	26072	24822	27130	25672	24562	26552	25292	24302	23786
7	30372	27202	25152	23722	29832	26912	24982	23612	26352	24642	23402	25822	24322	23202	25322	24002	22992	22497
8	29042	25812	23782	22382	28552	25552	23632	22302	25072	23352	22132	24612	23082	21972	24182	22822	21802	21326
9	27802	24542	22542	21192	27362	24322	22422	21122	23892	22182	20982	23502	21962	20852	23122	21742	20722	20259
10	26662	23382	21422	20112	26252	23192	21322	20062	22822	21122	19952	22472	20932	19842	22142	20742	19732	19286

Unified Glare Rating Table

Lum. Name:	Lum. Catalog:	Test ID:
Lamp Name: LED	Lamp Catalog: 1	Test Lab:
Manufacture:	Test Machine: GON-2000	Test Date: 2020/06/23

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	-21.1	-20.3	-21.6	-20.8	-20.5	-21.1	-20.3	-21.6	-20.8	-20.5
	Y=3H	-21.3	-20.6	-21.7	-21.0	-20.7	-21.3	-20.6	-21.7	-21.0	-20.7
	Y=4H	-21.4	-20.8	-21.7	-21.1	-20.8	-21.4	-20.8	-21.7	-21.1	-20.8
	Y=6H	-21.6	-21.0	-21.8	-21.2	-20.9	-21.6	-21.0	-21.8	-21.2	-20.9
	Y=8H	-21.6	-21.1	-21.8	-21.3	-20.9	-21.6	-21.1	-21.8	-21.3	-20.9
	Y=12H	-21.7	-21.1	-21.9	-21.3	-20.9	-21.7	-21.1	-21.9	-21.3	-20.9
X=4H	Y=2H	-21.4	-20.8	-21.7	-21.1	-20.8	-21.4	-20.8	-21.7	-21.1	-20.8
	Y=3H	-21.7	-21.1	-21.9	-21.3	-20.9	-21.7	-21.1	-21.9	-21.3	-20.9
	Y=4H	-21.9	-21.4	-21.9	-21.5	-21.0	-21.9	-21.4	-21.9	-21.5	-21.0
	Y=6H	-22.0	-21.6	-22.0	-21.6	-21.1	-22.0	-21.6	-22.0	-21.6	-21.1
	Y=8H	-22.1	-21.7	-22.0	-21.6	-21.2	-22.1	-21.7	-22.0	-21.6	-21.2
	Y=12H	-22.2	-21.8	-22.1	-21.7	-21.2	-22.2	-21.8	-22.1	-21.7	-21.2
X=8H	Y=4H	-22.1	-21.7	-22.0	-21.6	-21.2	-22.1	-21.7	-22.0	-21.6	-21.2
	Y=6H	-22.3	-22.0	-22.1	-21.8	-21.3	-22.3	-22.0	-22.1	-21.8	-21.3
	Y=8H	-22.4	-22.1	-22.1	-21.9	-21.3	-22.4	-22.1	-22.1	-21.9	-21.3
	Y=12H	-22.4	-22.2	-22.2	-21.9	-21.4	-22.4	-22.2	-22.2	-21.9	-21.4
X=12H	Y=4H	-22.2	-21.8	-22.1	-21.7	-21.2	-22.2	-21.8	-22.1	-21.7	-21.2
	Y=6H	-22.4	-22.1	-22.1	-21.9	-21.3	-22.4	-22.1	-22.1	-21.9	-21.3
	Y=8H	-22.4	-22.2	-22.2	-21.9	-21.4	-22.4	-22.2	-22.2	-21.9	-21.4
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					

s calculated according to the document STD.CIE 117-1995

IES Indoor Report
Photometric Filename:IWH2301LL-7.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
Y 0.0	729.64	729.64	729.64	729.64	729.64	729.64	729.64	729.64	729.64	729.64	729.64	729.64
Y 1.0	750.23	737.91	728.49	718.20	707.00	693.67	728.98	725.19	723.33	723.68	721.17	719.33
Y 2.0	747.99	735.75	723.19	704.43	684.94	668.87	708.40	704.80	708.16	717.87	723.70	725.32
Y 3.0	742.34	725.05	709.05	680.46	660.09	644.36	688.76	683.18	693.68	702.71	716.65	725.14
Y 4.0	726.41	703.37	684.19	656.98	636.85	619.51	660.06	659.89	673.24	692.40	703.96	714.68
Y 5.0	705.79	682.77	659.75	629.93	604.61	588.94	628.86	631.26	645.79	677.67	690.38	701.31
Y 6.0	689.20	661.96	634.56	594.81	572.71	556.49	604.03	601.73	621.96	651.95	669.58	688.37
Y 7.0	665.27	633.85	603.78	563.28	545.84	529.17	577.10	575.35	595.13	626.56	641.00	666.49
Y 8.0	632.22	602.77	573.97	534.50	515.17	500.00	545.15	545.14	557.81	597.45	613.88	639.73
Y 9.0	600.15	575.98	542.85	503.21	482.79	467.42	516.78	510.90	524.77	560.68	584.15	614.88
Y 10.0	571.47	547.46	508.47	476.84	459.44	441.17	487.76	481.48	495.82	528.49	549.74	583.28
Y 11.0	536.68	514.09	480.12	453.09	438.55	419.74	455.23	457.56	464.64	499.21	521.44	546.83
Y 12.0	505.34	483.42	458.80	424.63	413.99	394.53	428.44	430.50	437.79	464.86	495.84	514.37
Y 13.0	479.93	460.07	432.76	400.74	393.03	370.39	407.72	404.76	416.45	436.85	467.69	486.39
Y 14.0	451.90	435.80	408.90	383.59	374.02	353.29	382.69	386.98	391.76	416.87	443.33	456.35
Y 15.0	424.15	409.51	391.42	362.50	350.66	336.79	359.33	369.13	369.83	393.24	422.63	427.13
Y 16.0	405.06	389.15	369.55	343.21	329.83	317.55	343.66	346.64	352.23	373.14	394.84	404.97
Y 17.0	383.77	370.40	348.10	330.27	315.27	303.18	327.74	328.39	331.22	356.92	370.08	386.19
Y 18.0	362.28	349.09	334.90	313.87	299.34	293.44	310.70	314.27	311.80	336.54	354.37	365.11
Y 19.0	347.23	331.43	319.69	296.35	282.92	278.92	299.27	297.72	302.22	318.16	335.78	346.67
Y 20.0	331.85	319.39	302.14	285.13	273.28	261.60	288.44	281.86	290.88	305.62	315.02	330.91
Y 21.0	312.34	305.97	291.48	272.46	256.46	235.80	271.92	273.85	277.73	289.54	301.28	312.07
Y 22.0	298.69	291.31	280.50	249.04	227.39	208.05	251.76	266.06	270.61	272.84	286.71	294.23
Y 23.0	288.65	280.34	257.73	218.82	190.91	184.66	233.10	252.87	261.68	263.99	270.71	283.11
Y 24.0	273.83	262.03	224.30	195.73	170.22	162.74	202.36	242.07	248.37	254.02	262.22	272.39
Y 25.0	262.63	229.53	206.22	169.92	157.95	144.76	174.56	234.22	240.63	241.60	253.96	257.83
Y 26.0	256.48	199.96	186.22	157.39	147.41	130.79	164.92	215.87	233.16	235.84	239.86	247.98
Y 27.0	239.82	179.90	153.21	141.74	127.27	121.36	156.40	187.70	221.10	228.98	231.38	242.25
Y 28.0	210.91	168.65	140.89	126.75	105.12	112.91	143.40	174.53	212.68	217.48	225.94	233.56
Y 29.0	195.40	151.96	131.40	111.20	94.74	96.55	121.64	159.83	202.74	211.99	215.59	224.35
Y 30.0	180.76	135.58	124.45	101.42	91.97	76.99	103.47	142.79	176.29	207.39	209.01	220.34
Y 31.0	157.19	122.68	115.83	94.58	89.27	66.04	93.29	127.67	160.17	188.39	206.52	212.02
Y 32.0	137.87	103.41	86.59	79.00	70.30	64.73	88.60	119.23	149.19	167.71	189.13	187.38
Y 33.0	128.17	96.24	71.64	68.53	48.43	53.15	86.61	111.69	132.48	159.18	168.78	166.96
Y 34.0	119.52	92.11	70.90	53.37	44.31	33.76	68.55	96.31	117.43	149.93	157.60	153.79
Y 35.0	110.96	75.89	65.94	43.35	38.54	24.22	44.59	86.40	111.06	138.63	143.38	135.94
Y 36.0	100.07	64.62	50.07	39.25	18.84	16.29	41.82	83.13	104.15	129.63	124.25	118.26
Y 37.0	87.94	52.31	33.77	21.10	12.57	11.11	36.42	70.81	95.86	120.11	114.62	112.60
Y 38.0	74.80	42.99	23.78	9.78	12.60	8.76	14.97	58.22	87.87	112.86	108.07	107.81
Y 39.0	70.43	20.66	9.70	9.20	8.09	11.17	12.74	55.02	78.13	110.97	100.86	99.02
Y 40.0	63.29	11.21	10.04	11.11	7.36	9.77	13.80	43.47	66.59	102.04	99.44	88.60
Y 41.0	51.50	12.94	10.85	7.39	9.80	5.97	9.77	32.59	57.88	85.44	95.63	81.52
Y 42.0	45.36	10.83	6.49	5.74	7.65	7.15	7.65	29.50	53.82	75.62	81.79	66.25
Y 43.0	35.52	7.03	6.80	8.56	4.45	8.81	10.33	22.28	44.45	69.43	72.02	57.35

IES Indoor Report
Photometric Filename:IWH2301LL-7.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 44.0	22.48	8.56	8.92	6.46	6.56	5.33	9.02	12.30	35.53	62.15	67.90	57.56
Y 45.0	14.97	9.68	5.21	3.28	7.07	3.39	5.39	8.77	32.67	60.65	59.93	53.50
Y 46.0	11.42	6.03	4.16	6.03	3.20	6.11	6.97	10.62	20.68	55.07	56.78	41.05
Y 47.0	7.30	5.12	7.14	5.60	2.91	5.55	8.32	10.30	14.31	43.17	49.53	33.38
Y 48.0	9.52	7.66	4.59	1.83	5.69	1.73	4.52	6.35	13.11	33.91	31.55	25.62
Y 49.0	9.17	5.88	2.09	3.62	3.63	2.79	3.67	6.62	8.89	31.24	25.42	17.31
Y 50.0	5.13	2.59	5.05	5.11	0.67	5.13	6.45	9.07	7.38	20.44	22.29	9.70
Y 51.0	6.79	4.71	4.00	1.26	3.13	2.46	4.72	6.72	10.15	19.69	14.72	11.30
Y 52.0	8.07	5.87	0.79	1.71	4.42	0.59	1.64	4.10	7.53	20.86	11.54	8.87
Y 53.0	4.01	2.15	3.44	4.59	0.98	3.49	3.94	6.20	5.15	16.13	13.57	5.65
Y 54.0	4.85	1.90	4.25	1.57	0.76	3.87	5.12	7.02	8.23	15.08	10.71	7.95
Y 55.0	6.97	4.99	0.49	0.40	3.99	0.52	1.55	3.39	6.94	17.09	6.95	8.51
Y 56.0	3.41	3.01	1.99	3.77	2.65	1.35	1.46	2.98	3.67	13.21	9.01	4.70
Y 57.0	3.05	0.39	4.29	2.34	0.00	4.22	4.61	5.90	6.36	11.00	8.19	5.21
Y 58.0	5.93	3.31	0.97	0.00	2.04	2.06	2.80	4.10	6.47	13.56	4.51	7.80
Y 59.0	2.94	4.06	0.85	2.93	3.88	0.00	0.22	1.10	2.63	10.66	6.69	4.90
Y 60.0	1.53	0.66	4.16	3.07	0.87	2.86	3.06	3.36	4.19	7.59	7.46	3.03
Y 61.0	4.98	1.53	1.80	0.00	0.18	3.71	4.14	4.72	5.70	10.18	3.41	6.05
Y 62.0	3.11	4.41	0.00	1.84	3.36	0.30	0.84	1.48	1.80	8.54	4.54	5.20
Y 63.0	0.73	1.72	3.38	3.61	2.53	0.69	0.92	1.16	2.40	4.45	6.52	1.70
Y 64.0	3.93	0.10	2.61	0.05	0.00	3.76	4.05	4.36	5.09	6.11	2.90	3.59
Y 65.0	3.21	3.43	0.00	0.64	1.28	1.79	2.32	3.01	1.82	5.45	2.65	5.16
Y 66.0	0.01	3.03	2.13	3.61	3.54	0.00	0.00	0.14	1.02	1.74	5.56	1.69
Y 67.0	3.01	0.00	3.16	0.66	0.68	2.07	2.39	2.67	4.34	3.57	2.61	1.57
Y 68.0	3.56	1.82	0.00	0.00	0.00	3.28	3.73	4.15	2.40	4.76	1.02	4.49
Y 69.0	0.04	3.77	0.82	3.07	2.74	0.00	0.40	0.81	0.17	0.93	4.29	2.34
Y 70.0	2.11	0.40	3.39	1.40	2.29	0.06	0.23	0.65	3.60	2.41	3.04	0.16
Y 71.0	3.88	0.10	0.34	0.00	0.00	3.20	3.31	3.93	3.10	4.65	0.23	3.33
Y 72.0	0.18	3.45	0.00	2.42	0.78	1.55	2.09	2.46	0.00	1.13	3.16	3.31
Y 73.0	1.22	1.48	3.12	2.19	3.23	0.00	0.00	0.00	2.73	1.33	3.77	0.00
Y 74.0	3.89	0.00	1.38	0.00	0.55	1.62	1.56	2.10	3.65	4.40	0.20	1.91
Y 75.0	0.58	2.29	0.00	1.55	0.00	3.08	3.35	3.65	0.05	1.49	2.02	3.91
Y 76.0	0.51	2.86	2.07	2.91	2.47	0.00	0.26	0.41	1.71	0.60	4.15	0.61
Y 77.0	3.55	0.00	2.46	0.00	2.29	0.00	0.00	0.21	3.91	4.04	0.79	0.57
Y 78.0	1.11	0.83	0.00	0.61	0.00	2.91	2.89	3.32	0.46	2.00	0.61	3.79
Y 79.0	0.00	3.28	0.72	3.31	0.60	1.60	2.03	2.15	0.73	0.00	3.82	1.57
Y 80.0	3.23	0.32	3.15	0.00	3.27	0.00	0.00	0.00	3.74	3.29	1.65	0.00
Y 81.0	1.78	0.00	0.17	0.00	0.61	1.34	1.19	1.68	0.96	2.50	0.00	2.90
Y 82.0	0.00	2.82	0.00	3.09	0.00	3.12	3.29	3.33	0.00	0.00	2.87	2.57
Y 83.0	2.52	1.78	2.98	1.01	2.25	0.06	0.24	0.25	3.32	2.42	2.79	0.00
Y 84.0	2.26	0.00	1.57	0.00	2.47	0.00	0.00	0.00	1.68	2.87	0.00	1.66
Y 85.0	0.00	1.61	0.00	2.52	0.00	2.72	2.60	3.15	0.00	0.00	1.51	3.31
Y 86.0	1.77	2.98	1.63	1.96	0.34	2.01	2.19	2.03	2.66	1.50	3.51	0.00
Y 87.0	2.82	0.00	2.85	0.00	3.22	0.00	0.00	0.00	2.36	3.25	0.13	0.33

IES Indoor Report
Photometric Filename:IWH2301LL-7.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 88.0	0.00	0.00	0.00	1.74	0.97	0.95	0.86	1.17	0.00	0.00	0.00	3.46
Y 89.0	0.87	3.15	0.17	2.83	0.00	3.30	3.26	3.25	1.82	0.65	3.28	0.76
Y 90.0	3.12	1.05	3.22	0.00	2.04	0.41	0.45	0.21	2.96	3.55	1.34	0.00
Y 91.0	0.00	0.00	0.93	0.87	2.70	0.00	0.00	0.00	0.00	0.37	0.00	2.87
Y 92.0	0.13	2.12	0.00	3.20	0.00	2.49	2.37	2.72	1.00	0.00	2.22	1.86
Y 93.0	3.30	2.53	2.25	0.00	0.02	2.37	2.33	2.12	3.28	3.32	2.73	0.00
Y 94.0	0.47	0.00	2.43	0.04	3.21	0.00	0.00	0.00	0.00	0.99	0.00	1.80
Y 95.0	0.00	0.51	0.00	3.21	1.22	0.59	0.47	0.85	0.16	0.00	0.78	2.69
Y 96.0	3.03	3.21	0.63	0.63	0.00	3.24	3.23	3.29	3.35	2.81	3.35	0.00
Y 97.0	1.32	0.66	3.21	0.00	1.81	0.70	0.83	0.40	0.69	1.80	0.44	0.66
Y 98.0	0.00	0.00	0.51	2.94	2.84	0.00	0.00	0.00	0.00	0.00	0.00	3.20
Y 99.0	2.46	2.44	0.00	1.52	0.00	2.17	2.09	2.59	2.94	2.15	2.63	0.03
Y 100.0	2.08	2.29	2.70	0.00	0.00	2.71	2.74	2.24	1.51	2.48	2.05	0.00
Y 101.0	0.00	0.00	2.09	2.39	3.13	0.00	0.00	0.00	0.00	0.00	0.00	3.02
Y 102.0	1.61	0.81	0.00	2.31	1.41	0.23	0.09	0.71	2.23	1.35	1.19	1.02
Y 103.0	2.81	3.24	0.93	0.00	0.00	3.21	3.20	3.29	2.35	2.89	3.12	0.00
Y 104.0	0.00	0.37	3.11	1.66	1.59	1.04	1.22	0.57	0.00	0.00	0.00	2.36
Y 105.0	0.64	0.00	0.16	3.01	3.07	0.00	0.00	0.00	1.32	0.48	0.00	2.01
Y 106.0	3.19	2.61	0.00	0.00	0.00	2.02	1.88	2.48	3.05	3.26	2.94	0.00
Y 107.0	0.12	2.14	2.94	0.91	0.00	2.91	2.97	2.38	0.00	0.06	1.62	1.31
Y 108.0	0.00	0.00	1.87	3.33	3.16	0.00	0.00	0.00	0.28	0.00	0.00	2.81
Y 109.0	3.20	1.01	0.00	0.04	1.69	0.07	0.00	0.63	3.29	3.23	1.45	0.00
Y 110.0	1.06	3.29	1.36	0.24	0.00	3.20	3.08	3.27	0.51	0.83	3.12	0.39
Y 111.0	0.00	0.29	3.13	3.49	1.65	1.50	1.31	0.72	0.00	0.00	0.00	3.23
Y 112.0	2.59	0.00	0.00	0.61	3.19	0.00	0.00	0.00	2.88	2.72	0.00	0.32
Y 113.0	2.06	2.86	0.00	0.00	0.00	1.84	1.85	2.45	1.62	1.70	3.03	0.00
Y 114.0	0.00	2.13	3.12	3.28	0.05	3.22	3.12	2.47	0.00	0.00	1.54	2.95
Y 115.0	1.52	0.00	1.69	1.37	3.34	0.00	0.00	0.00	2.03	1.92	0.00	1.50
Y 116.0	2.96	1.28	0.00	0.00	1.79	0.00	0.12	0.63	2.72	2.58	1.69	0.00
Y 117.0	0.00	3.36	1.71	2.93	0.00	3.22	3.26	3.41	0.00	0.00	2.96	2.06
Y 118.0	0.41	0.32	3.21	2.06	2.07	2.06	1.48	0.86	0.81	1.06	0.00	2.59
Y 119.0	3.46	0.00	0.00	0.00	3.27	0.00	0.00	0.00	3.38	3.18	0.01	0.00
Y 120.0	0.81	2.93	0.03	2.55	0.00	1.62	2.03	2.51	0.28	0.00	3.19	1.02
Y 121.0	0.00	2.13	3.35	2.78	0.49	3.68	3.19	2.65	0.00	0.24	1.49	3.22
Y 122.0	2.93	0.00	1.88	0.00	3.71	0.74	0.00	0.00	3.16	3.45	0.00	0.04
Y 123.0	2.18	1.53	0.00	2.05	1.83	0.00	0.28	0.79	1.66	0.79	1.91	0.00
Y 124.0	0.00	3.54	1.81	3.42	0.00	3.19	3.46	3.63	0.00	0.00	3.20	3.34
Y 125.0	1.73	0.46	3.59	0.00	2.63	2.81	1.61	1.05	2.15	3.04	0.00	1.30
Y 126.0	3.25	0.00	0.41	1.57	3.42	0.00	0.00	0.00	3.00	1.82	0.20	0.00
Y 127.0	0.01	3.14	0.05	4.03	0.14	1.58	2.31	2.83	0.00	0.00	3.29	2.48
Y 128.0	0.42	2.39	3.42	0.61	1.23	4.12	3.37	2.83	0.94	2.41	1.52	2.53
Y 129.0	3.61	0.00	2.67	1.01	4.14	1.35	0.11	0.00	3.66	2.76	0.00	0.00
Y 130.0	1.48	1.66	0.00	4.25	1.82	0.20	0.68	1.24	0.93	0.00	2.11	1.42
Y 131.0	0.00	3.79	1.74	1.63	0.19	3.62	3.79	3.85	0.00	1.51	3.34	3.45

IES Indoor Report

Photometric Filename:IWH2301LL-7.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 132.0	2.83	0.88	4.11	0.57	3.52	3.33	1.79	1.09	3.18	3.49	0.09	0.15
Y 133.0	3.19	0.12	1.47	4.22	3.73	0.20	0.00	0.00	2.46	0.10	0.41	0.40
Y 134.0	0.00	3.59	0.32	2.74	0.48	2.28	2.88	3.32	0.00	0.68	3.63	3.70
Y 135.0	1.25	2.91	3.63	0.41	2.25	4.64	3.61	2.97	2.06	3.78	1.71	1.50
Y 136.0	4.10	0.04	3.64	3.81	4.83	1.70	0.35	0.00	3.76	1.17	0.00	0.00
Y 137.0	1.58	2.43	0.47	4.00	2.11	1.18	1.18	1.81	0.50	0.00	2.42	3.07
Y 138.0	0.03	4.42	1.98	0.72	1.14	4.60	4.20	4.14	0.59	3.56	3.52	2.68
Y 139.0	3.39	1.40	4.87	3.36	4.64	3.47	2.08	1.15	3.93	2.31	0.25	0.00
Y 140.0	3.63	0.94	2.46	5.07	4.04	0.85	0.19	0.51	2.15	0.00	0.91	2.09
Y 141.0	0.45	4.43	0.87	1.65	1.05	3.85	3.35	3.94	0.00	2.84	4.03	3.76
Y 142.0	1.90	3.42	4.08	2.73	3.51	5.10	4.01	3.12	2.99	3.45	1.96	0.36
Y 143.0	4.78	0.76	4.57	5.70	5.54	1.80	0.72	0.08	3.81	0.04	0.00	1.13
Y 144.0	2.58	3.54	1.44	2.82	2.45	2.81	1.86	2.56	0.63	1.99	3.09	4.24
Y 145.0	0.85	5.11	2.63	2.15	2.49	5.94	4.76	4.56	1.61	4.26	3.72	1.65
Y 146.0	4.06	2.04	5.72	5.73	5.84	3.32	2.33	1.52	4.53	0.97	0.53	0.37
Y 147.0	4.74	2.21	3.56	4.13	4.34	2.14	0.67	1.20	2.29	1.15	1.67	3.99
Y 148.0	1.60	5.48	1.72	1.97	1.91	5.73	4.03	4.53	0.54	4.55	4.55	2.97
Y 149.0	2.48	3.95	4.89	5.41	5.01	4.95	4.24	3.43	3.76	2.38	1.97	0.26
Y 150.0	5.67	1.65	5.61	5.50	5.90	2.15	0.96	0.68	4.33	0.68	0.58	3.25
Y 151.0	3.99	4.59	2.37	2.26	2.54	5.03	2.53	3.26	1.10	4.24	4.03	4.05
Y 152.0	1.77	5.85	3.37	4.79	3.96	6.36	5.19	4.96	2.14	3.63	3.73	0.72
Y 153.0	4.54	2.66	6.46	6.61	6.80	2.87	2.53	1.86	5.09	0.57	0.69	2.27
Y 154.0	6.11	3.39	4.53	3.23	4.25	4.16	1.26	1.87	2.91	3.32	2.82	4.92
Y 155.0	2.96	6.50	2.47	3.94	3.02	6.93	4.68	5.16	0.97	4.63	5.02	1.82
Y 156.0	3.10	4.51	5.51	7.13	6.56	4.14	4.25	3.63	4.13	1.20	1.94	1.61
Y 157.0	6.46	2.49	6.43	4.45	5.93	3.50	1.22	1.10	4.98	2.49	1.49	5.03
Y 158.0	5.44	5.70	3.30	3.39	2.98	6.99	3.36	3.82	1.71	5.21	4.89	2.99
Y 159.0	2.68	6.44	3.91	7.06	5.56	5.42	5.62	5.20	2.30	2.42	3.68	1.24
Y 160.0	5.05	3.20	7.18	5.92	7.19	3.23	2.38	1.99	5.47	1.67	1.07	4.73
Y 161.0	7.10	4.31	5.45	3.24	3.94	6.79	2.00	2.24	3.65	5.27	4.02	4.14
Y 162.0	4.32	7.40	3.15	6.39	4.55	6.71	5.48	5.56	1.36	3.82	5.12	1.16
Y 163.0	3.62	5.08	6.03	7.25	7.77	3.60	4.23	3.98	4.16	1.38	1.84	3.95
Y 164.0	7.01	3.37	7.32	3.94	5.51	6.34	1.63	1.48	5.59	4.57	2.58	5.16
Y 165.0	6.49	6.65	4.17	5.45	3.94	7.78	4.47	4.15	2.49	5.02	5.64	1.68
Y 166.0	3.60	7.14	4.37	8.03	7.31	4.35	5.92	5.66	2.37	1.74	3.38	3.18
Y 167.0	5.53	4.03	7.68	4.99	6.86	5.69	2.60	2.47	5.70	3.76	1.65	5.77
Y 168.0	8.11	5.37	6.31	4.45	3.76	8.43	3.23	2.60	4.51	6.02	4.91	2.69
Y 169.0	5.46	8.16	3.66	8.02	6.34	5.10	6.34	5.99	1.77	2.65	5.08	2.57
Y 170.0	4.17	5.62	6.28	6.41	7.86	5.01	4.17	4.47	4.23	2.93	1.93	6.04
Y 171.0	5.54	8.24	3.80	8.23	6.89	4.47	6.71	6.15	1.94	2.35	4.87	3.22
Y 172.0	4.05	6.57	5.02	6.99	8.13	4.92	5.17	5.86	3.45	2.65	2.62	5.89
Y 173.0	4.21	6.63	4.69	6.92	7.98	5.10	5.23	6.28	3.46	2.81	2.72	5.99
Y 174.0	4.76	4.49	6.66	4.54	6.32	7.68	3.13	4.75	5.86	5.12	2.51	6.20
Y 175.0	4.27	5.15	5.38	4.87	7.03	7.25	3.81	6.09	5.10	4.40	2.27	6.67

IES Indoor Report
Photometric Filename:IWH2301LL-7.IES

Candela Tabulation - (Cont.)

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
Y 176.0	8.42	7.71	5.62	7.88	5.28	3.73	7.38	3.86	3.70	4.87	6.40	2.82
Y 177.0	5.41	4.13	7.41	4.69	3.83	6.13	4.47	4.46	7.15	7.23	5.68	4.71
Y 178.0	5.30	4.71	3.55	3.93	7.21	7.86	3.69	7.35	5.69	3.89	3.19	7.10
Y 179.0	4.08	5.57	5.15	7.17	4.30	3.38	7.79	7.22	6.34	6.74	7.43	6.16
Y 180.0	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06