

# IES Indoor Report

Photometric Filename: Wall washer lamp prolight 3000K White 12W.IES

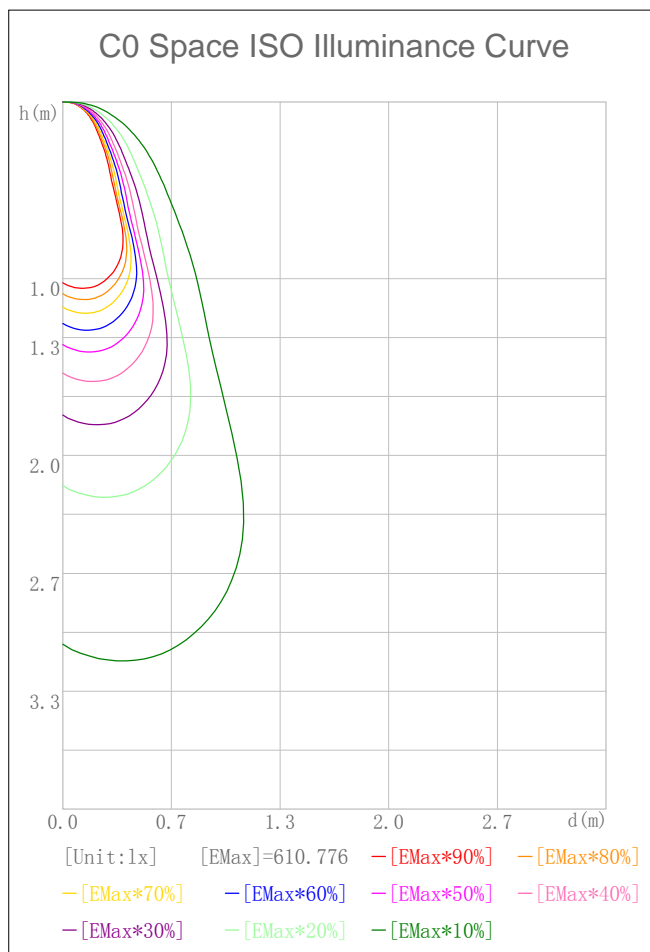
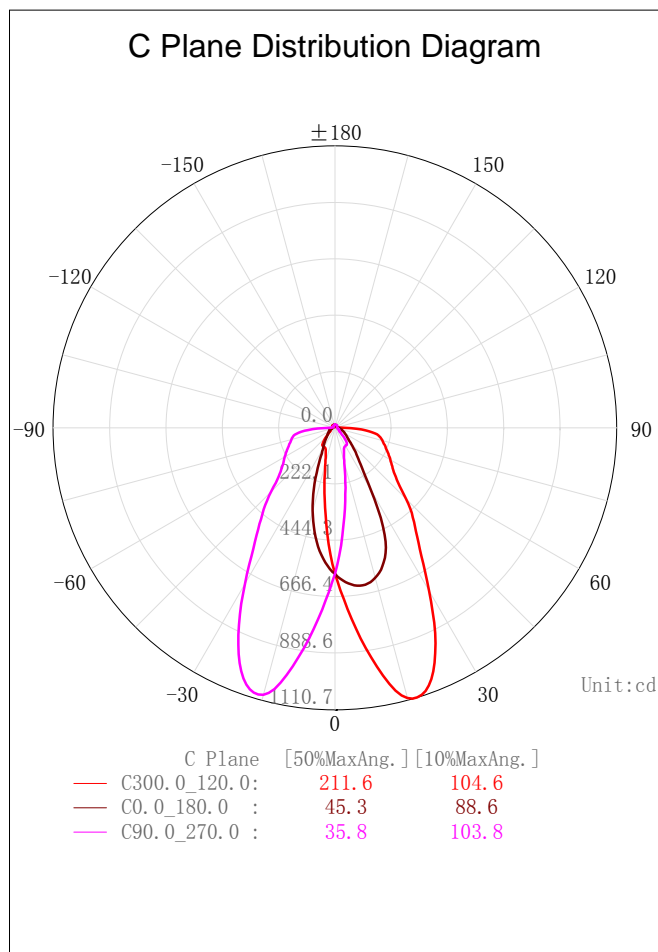
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Date: 2019/09/25
Manufacture:	Shld. Ang(°):	Test Machine: GON-2000
Test Lab: Volnic IES	Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H): 0.075m*0.075m*0.000m	Lum. Area (m2): 0.004	Lum. W (kg): 1.000
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): 910.850	Luminary Flux (lm): 910.851	Field Angle (10%Imax): 104.6(°)	
Rated Power (W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 853.635lm 93.72%	
Rated Voltage (V):	Luminary EER (lm/W): 72.118	Up Lumens&Percent: 57.216lm 6.28%	
Tested Power (W): 12.630	Max. Candela (cd): 1110.728	S/MH: C0_a180=0.788 C90_270=0.854	
Lamps' Inside: 1	Max Cand@Ang. (°): C=300.0 γ=17.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.2, 0.102, 0.558	Beam Angle (50%Imax): 36.7(°)	ErP Φ use (90°): 564.303lm	
Lamp Size (W*L*H): 0.075m*0.075m*0.000m	Left=-0.5°, Right=36.2°	IRF (%): 274.314	

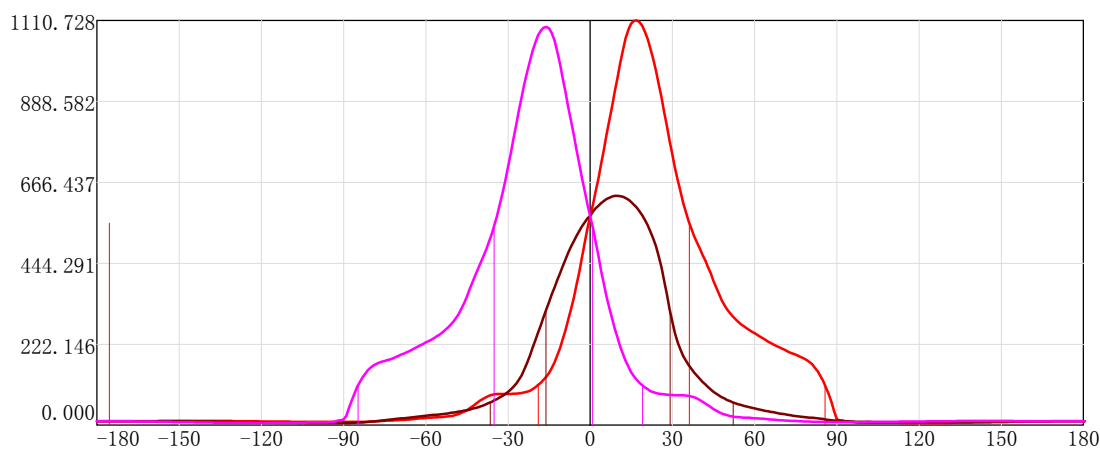
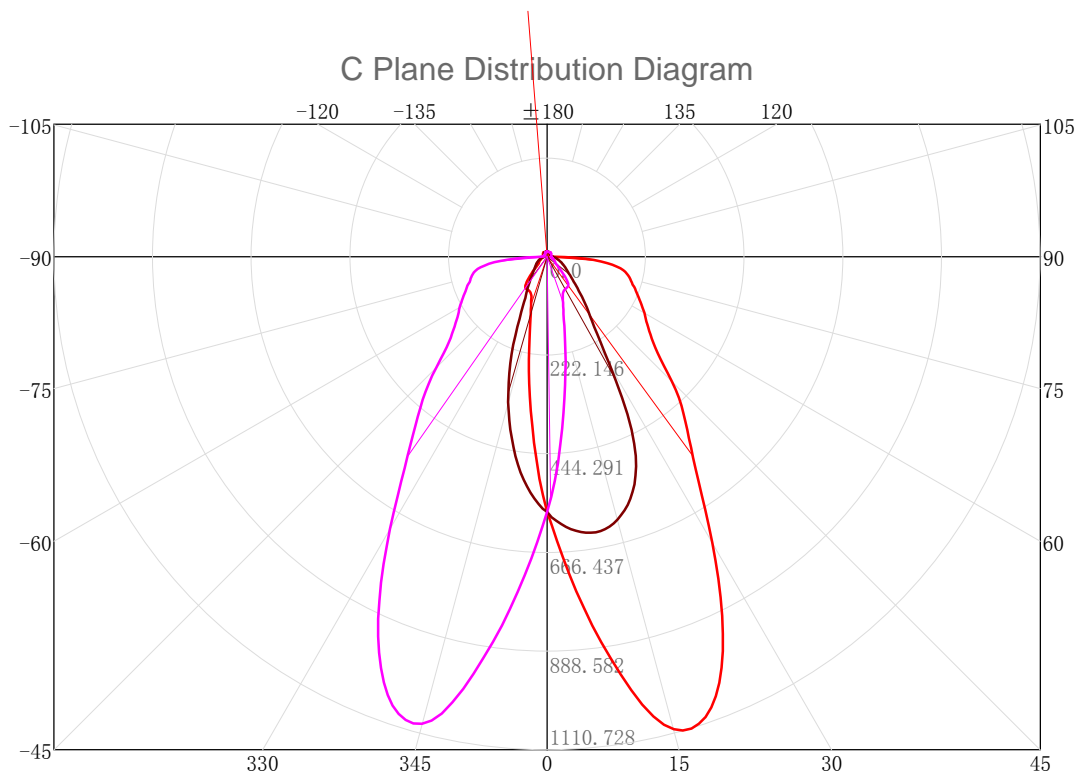


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## 2D Plane Light Intensity Distribution Curve

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C300.0_120.0:	211.6	104.6	
—	C0.0_180.0 :	45.3	88.6	
—	C90.0_270.0 :	35.8	103.8	

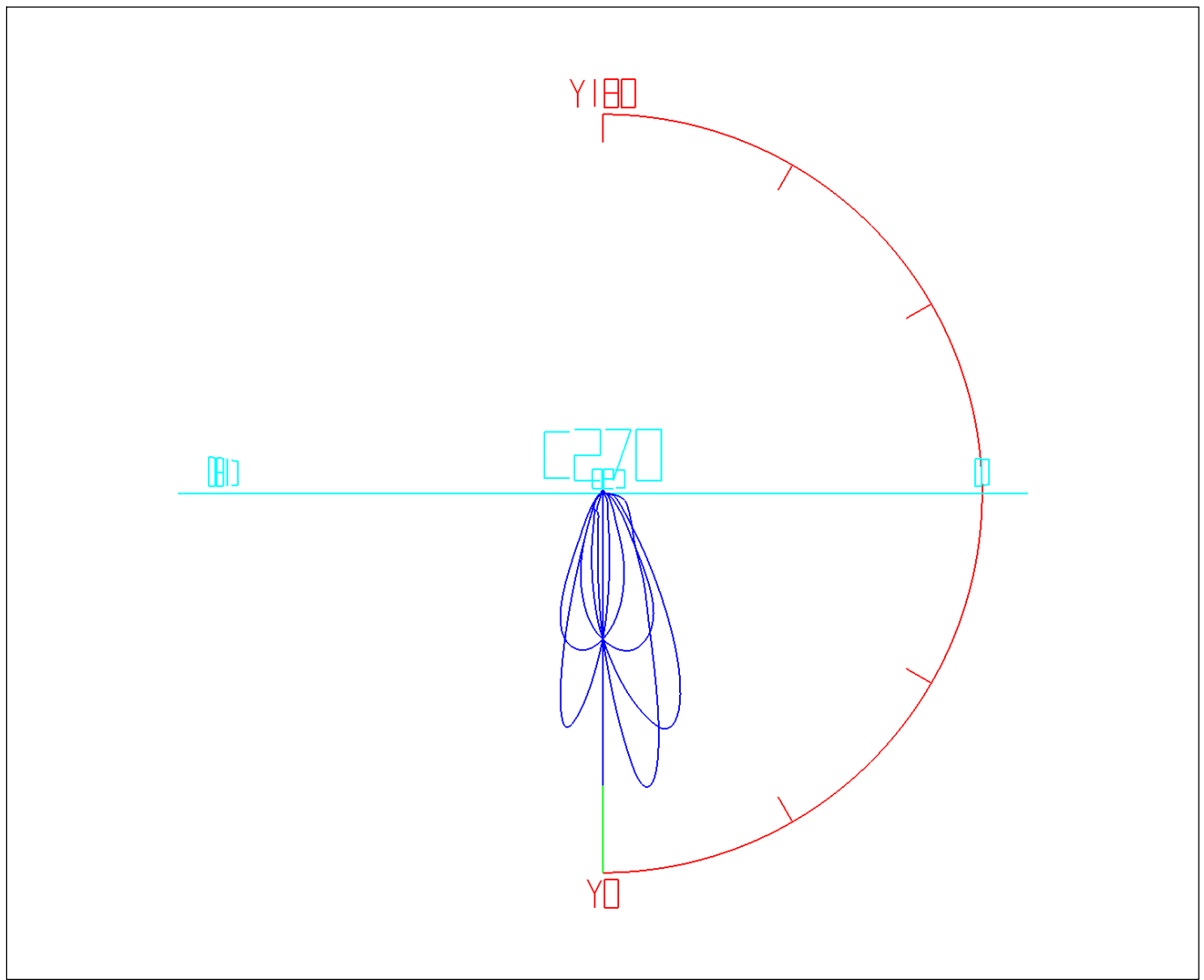
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## 3D Light Intensity Distribution Modal

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

### 3D Light Intensity Distribution Modal



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

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## Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	0.55	0.55	0.06	0.06	47.0-48.0	9.06	612.79	1.00	67.28
1.0-2.0	1.65	2.20	0.18	0.24	48.0-49.0	8.77	621.56	0.96	68.24
2.0-3.0	2.74	4.93	0.30	0.54	49.0-50.0	8.50	630.06	0.93	69.17
3.0-4.0	3.82	8.75	0.42	0.96	50.0-51.0	8.27	638.33	0.91	70.08
4.0-5.0	4.89	13.64	0.54	1.50	51.0-52.0	8.06	646.40	0.89	70.97
5.0-6.0	5.96	19.61	0.65	2.15	52.0-53.0	7.88	654.27	0.86	71.83
6.0-7.0	7.03	26.63	0.77	2.92	53.0-54.0	7.71	661.98	0.85	72.68
7.0-8.0	8.09	34.72	0.89	3.81	54.0-55.0	7.56	669.54	0.83	73.51
8.0-9.0	9.14	43.86	1.00	4.82	55.0-56.0	7.42	676.96	0.81	74.32
9.0-10.0	10.19	54.05	1.12	5.93	56.0-57.0	7.29	684.25	0.80	75.12
10.0-11.0	11.23	65.28	1.23	7.17	57.0-58.0	7.17	691.42	0.79	75.91
11.0-12.0	12.26	77.54	1.35	8.51	58.0-59.0	7.05	698.47	0.77	76.68
12.0-13.0	13.27	90.81	1.46	9.97	59.0-60.0	6.94	705.41	0.76	77.45
13.0-14.0	14.24	105.05	1.56	11.53	60.0-61.0	6.83	712.25	0.75	78.20
14.0-15.0	15.16	120.21	1.66	13.20	61.0-62.0	6.72	718.97	0.74	78.93
15.0-16.0	16.02	136.22	1.76	14.96	62.0-63.0	6.61	725.57	0.73	79.66
16.0-17.0	16.80	153.02	1.84	16.80	63.0-64.0	6.49	732.06	0.71	80.37
17.0-18.0	17.48	170.50	1.92	18.72	64.0-65.0	6.37	738.44	0.70	81.07
18.0-19.0	18.07	188.57	1.98	20.70	65.0-66.0	6.26	744.70	0.69	81.76
19.0-20.0	18.54	207.11	2.04	22.74	66.0-67.0	6.15	750.85	0.68	82.43
20.0-21.0	18.89	226.00	2.07	24.81	67.0-68.0	6.05	756.90	0.66	83.10
21.0-22.0	19.11	245.11	2.10	26.91	68.0-69.0	5.94	762.84	0.65	83.75
22.0-23.0	19.20	264.31	2.11	29.02	69.0-70.0	5.84	768.68	0.64	84.39
23.0-24.0	19.17	283.48	2.10	31.12	70.0-71.0	5.74	774.42	0.63	85.02
24.0-25.0	19.00	302.49	2.09	33.21	71.0-72.0	5.62	780.04	0.62	85.64
25.0-26.0	18.72	321.20	2.05	35.26	72.0-73.0	5.52	785.56	0.61	86.24
26.0-27.0	18.31	339.51	2.01	37.27	73.0-74.0	5.42	790.98	0.60	86.84
27.0-28.0	17.80	357.32	1.95	39.23	74.0-75.0	5.34	796.32	0.59	87.43
28.0-29.0	17.24	374.55	1.89	41.12	75.0-76.0	5.25	801.57	0.58	88.00
29.0-30.0	16.65	391.20	1.83	42.95	76.0-77.0	5.15	806.72	0.57	88.57
30.0-31.0	16.06	407.26	1.76	44.71	77.0-78.0	5.05	811.77	0.55	89.12
31.0-32.0	15.49	422.75	1.70	46.41	78.0-79.0	4.93	816.70	0.54	89.66
32.0-33.0	14.95	437.70	1.64	48.05	79.0-80.0	4.80	821.50	0.53	90.19
33.0-34.0	14.45	452.15	1.59	49.64	80.0-81.0	4.63	826.13	0.51	90.70
34.0-35.0	13.98	466.13	1.54	51.18	81.0-82.0	4.41	830.54	0.48	91.18
35.0-36.0	13.55	479.68	1.49	52.66	82.0-83.0	4.17	834.71	0.46	91.64
36.0-37.0	13.15	492.84	1.44	54.11	83.0-84.0	3.89	838.60	0.43	92.07
37.0-38.0	12.76	505.60	1.40	55.51	84.0-85.0	3.57	842.17	0.39	92.46
38.0-39.0	12.39	517.99	1.36	56.87	85.0-86.0	3.20	845.37	0.35	92.81
39.0-40.0	12.02	530.01	1.32	58.19	86.0-87.0	2.78	848.15	0.30	93.12
40.0-41.0	11.65	541.66	1.28	59.47	87.0-88.0	2.30	850.45	0.25	93.37
41.0-42.0	11.29	552.95	1.24	60.71	88.0-89.0	1.81	852.26	0.20	93.57
42.0-43.0	10.92	563.87	1.20	61.91	89.0-90.0	1.37	853.63	0.15	93.72
43.0-44.0	10.54	574.41	1.16	63.06	90.0-91.0	1.15	854.79	0.13	93.85
44.0-45.0	10.15	584.56	1.11	64.18	91.0-92.0	1.11	855.89	0.12	93.97
45.0-46.0	9.76	594.33	1.07	65.25	92.0-93.0	1.06	856.95	0.12	94.08
46.0-47.0	9.40	603.72	1.03	66.28	93.0-94.0	1.01	857.96	0.11	94.19

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## Zonal Flux Tabulation - (Cont.)

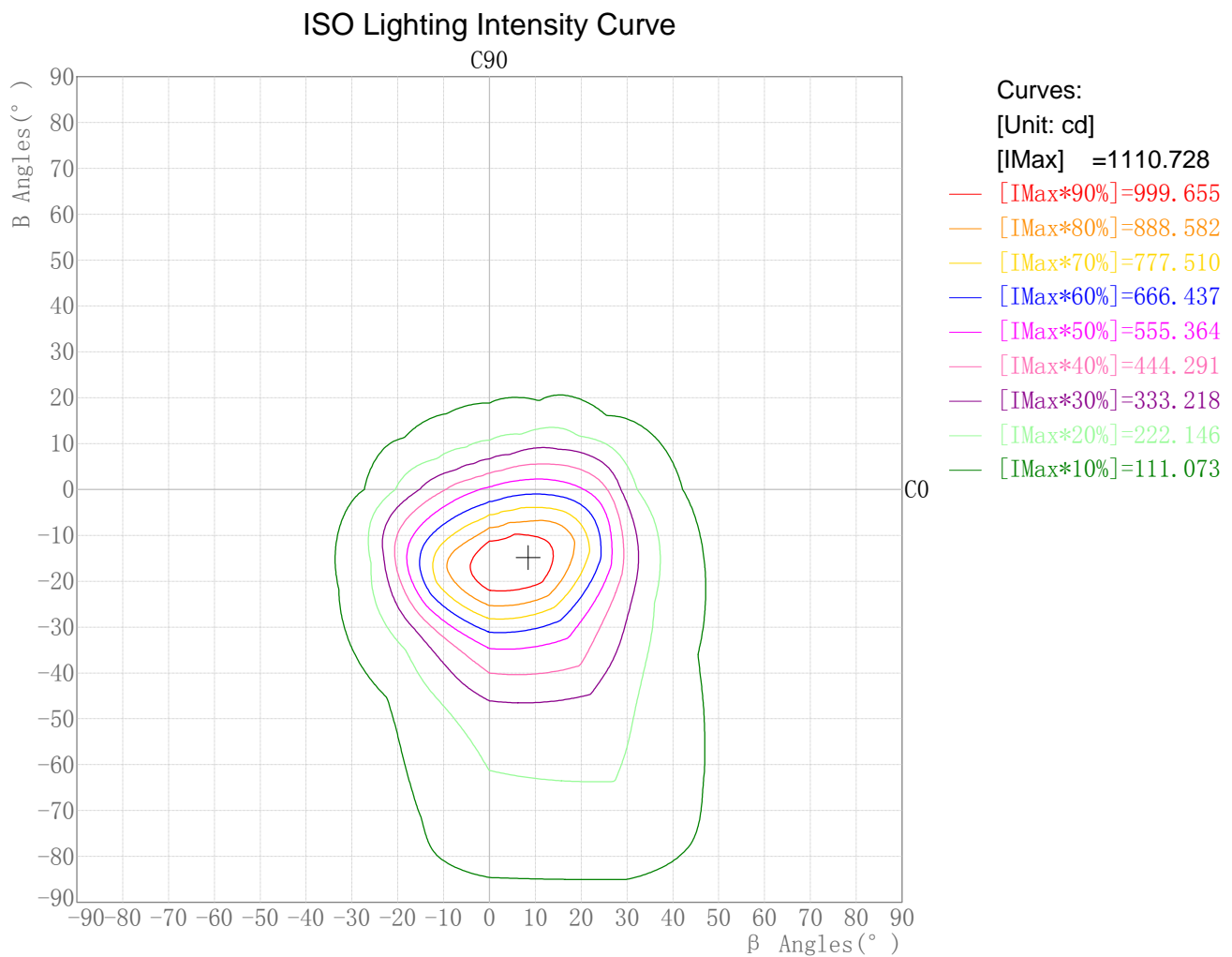
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.97	858.94	0.11	94.30	141.0-142.0	0.69	896.44	0.08	98.42
95.0-96.0	0.94	859.88	0.10	94.40	142.0-143.0	0.68	897.12	0.07	98.49
96.0-97.0	0.92	860.80	0.10	94.50	143.0-144.0	0.67	897.79	0.07	98.57
97.0-98.0	0.89	861.69	0.10	94.60	144.0-145.0	0.66	898.45	0.07	98.64
98.0-99.0	0.88	862.57	0.10	94.70	145.0-146.0	0.65	899.10	0.07	98.71
99.0-100.0	0.87	863.44	0.10	94.79	146.0-147.0	0.63	899.73	0.07	98.78
100.0-101.0	0.86	864.30	0.09	94.89	147.0-148.0	0.62	900.35	0.07	98.85
101.0-102.0	0.85	865.15	0.09	94.98	148.0-149.0	0.61	900.96	0.07	98.91
102.0-103.0	0.85	866.00	0.09	95.08	149.0-150.0	0.59	901.56	0.07	98.98
103.0-104.0	0.85	866.85	0.09	95.17	150.0-151.0	0.58	902.14	0.06	99.04
104.0-105.0	0.84	867.69	0.09	95.26	151.0-152.0	0.57	902.70	0.06	99.11
105.0-106.0	0.84	868.53	0.09	95.35	152.0-153.0	0.55	903.25	0.06	99.17
106.0-107.0	0.83	869.36	0.09	95.45	153.0-154.0	0.53	903.78	0.06	99.22
107.0-108.0	0.83	870.19	0.09	95.54	154.0-155.0	0.52	904.30	0.06	99.28
108.0-109.0	0.82	871.01	0.09	95.63	155.0-156.0	0.50	904.80	0.05	99.34
109.0-110.0	0.82	871.84	0.09	95.72	156.0-157.0	0.48	905.28	0.05	99.39
110.0-111.0	0.82	872.66	0.09	95.81	157.0-158.0	0.46	905.74	0.05	99.44
111.0-112.0	0.82	873.47	0.09	95.90	158.0-159.0	0.44	906.19	0.05	99.49
112.0-113.0	0.81	874.29	0.09	95.99	159.0-160.0	0.43	906.61	0.05	99.53
113.0-114.0	0.81	875.10	0.09	96.07	160.0-161.0	0.41	907.02	0.04	99.58
114.0-115.0	0.81	875.90	0.09	96.16	161.0-162.0	0.39	907.40	0.04	99.62
115.0-116.0	0.80	876.71	0.09	96.25	162.0-163.0	0.37	907.77	0.04	99.66
116.0-117.0	0.80	877.51	0.09	96.34	163.0-164.0	0.35	908.12	0.04	99.70
117.0-118.0	0.80	878.31	0.09	96.43	164.0-165.0	0.33	908.44	0.04	99.74
118.0-119.0	0.80	879.10	0.09	96.51	165.0-166.0	0.31	908.75	0.03	99.77
119.0-120.0	0.79	879.90	0.09	96.60	166.0-167.0	0.29	909.04	0.03	99.80
120.0-121.0	0.79	880.69	0.09	96.69	167.0-168.0	0.27	909.30	0.03	99.83
121.0-122.0	0.79	881.47	0.09	96.77	168.0-169.0	0.24	909.55	0.03	99.86
122.0-123.0	0.79	882.26	0.09	96.86	169.0-170.0	0.22	909.77	0.02	99.88
123.0-124.0	0.78	883.04	0.09	96.95	170.0-171.0	0.20	909.97	0.02	99.90
124.0-125.0	0.78	883.82	0.09	97.03	171.0-172.0	0.18	910.16	0.02	99.92
125.0-126.0	0.78	884.60	0.09	97.12	172.0-173.0	0.16	910.32	0.02	99.94
126.0-127.0	0.77	885.37	0.08	97.20	173.0-174.0	0.14	910.46	0.02	99.96
127.0-128.0	0.77	886.15	0.08	97.29	174.0-175.0	0.12	910.58	0.01	99.97
128.0-129.0	0.77	886.91	0.08	97.37	175.0-176.0	0.10	910.68	0.01	99.98
129.0-130.0	0.76	887.68	0.08	97.46	176.0-177.0	0.08	910.75	0.01	99.99
130.0-131.0	0.76	888.44	0.08	97.54	177.0-178.0	0.05	910.81	0.01	100.00
131.0-132.0	0.76	889.19	0.08	97.62	178.0-179.0	0.03	910.84	0.00	100.00
132.0-133.0	0.75	889.95	0.08	97.71	179.0-180.0	0.01	910.85	0.00	100.00
133.0-134.0	0.75	890.69	0.08	97.79					
134.0-135.0	0.74	891.44	0.08	97.87					
135.0-136.0	0.74	892.17	0.08	97.95					
136.0-137.0	0.73	892.90	0.08	98.03					
137.0-138.0	0.72	893.63	0.08	98.11					
138.0-139.0	0.72	894.34	0.08	98.19					
139.0-140.0	0.71	895.05	0.08	98.27					
140.0-141.0	0.70	895.75	0.08	98.34					

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## Rectangle ISO Lighting Intensity Diagram

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25



Maximum Light Intensity(cd): 1110.73

Maximum Cand.@Angle: H=8.4°;V=-14.8°

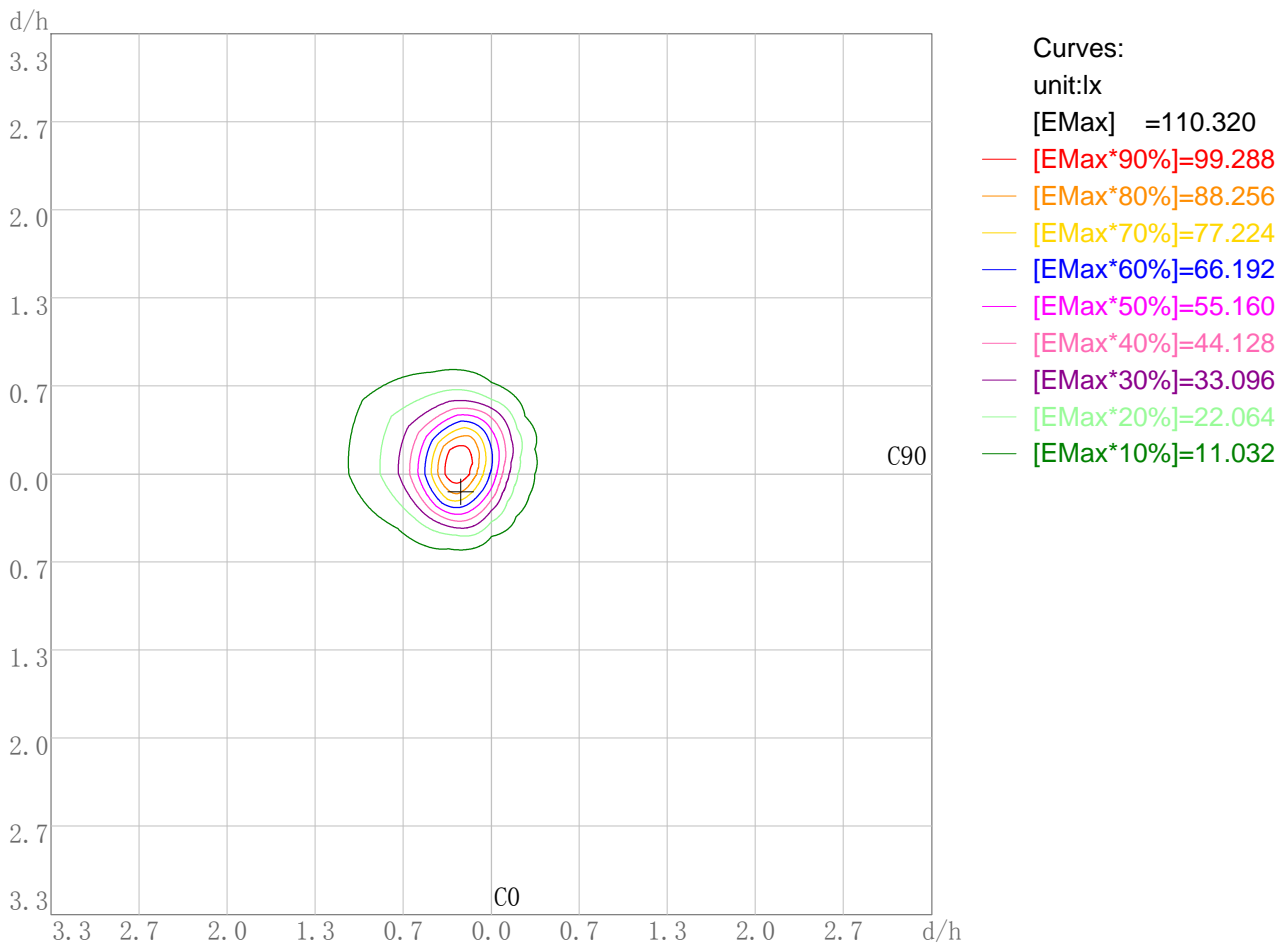
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## Plane ISO-Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

Plane ISO-Illuminance Curve



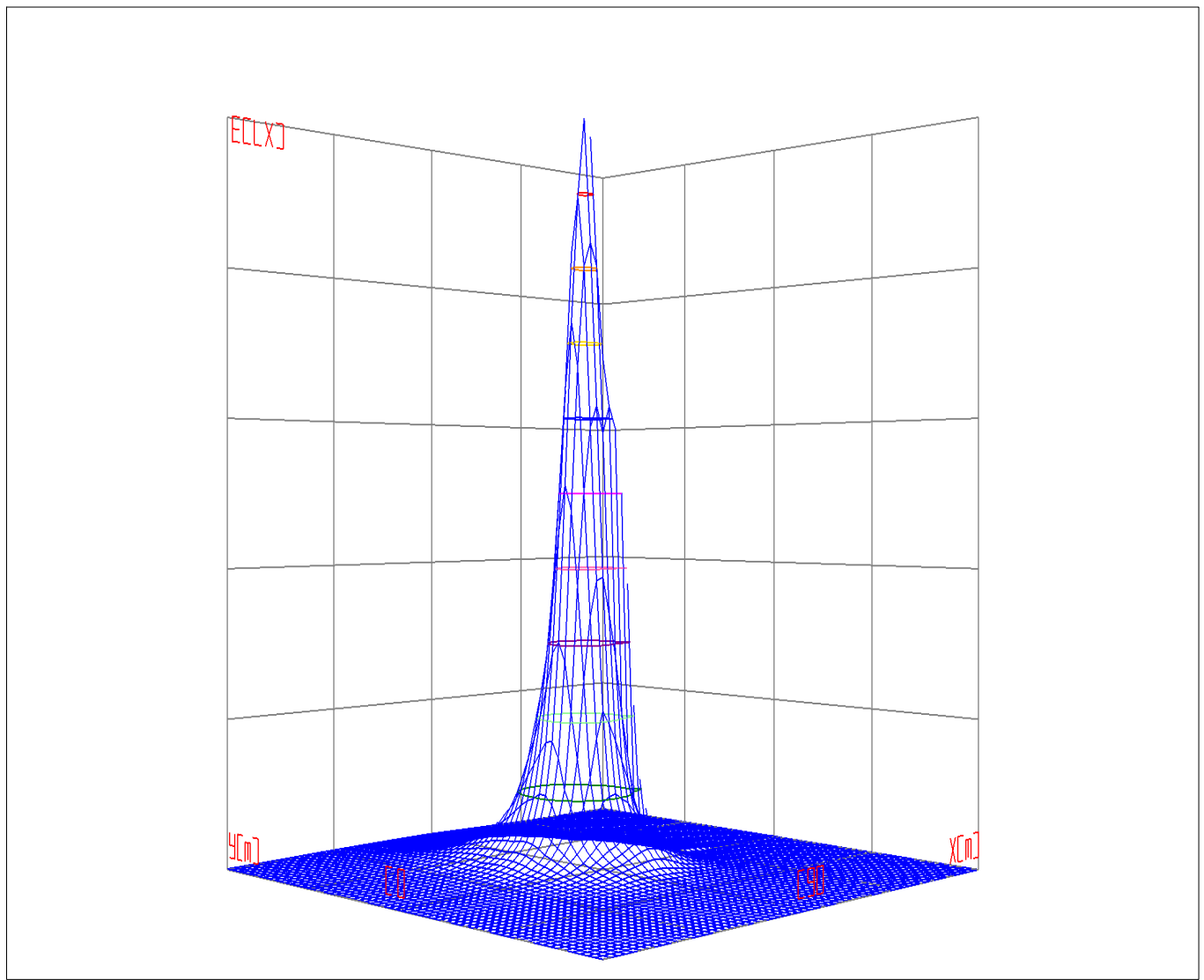
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## 3D Plane ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

### 3D Plane Illuminance Modal



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



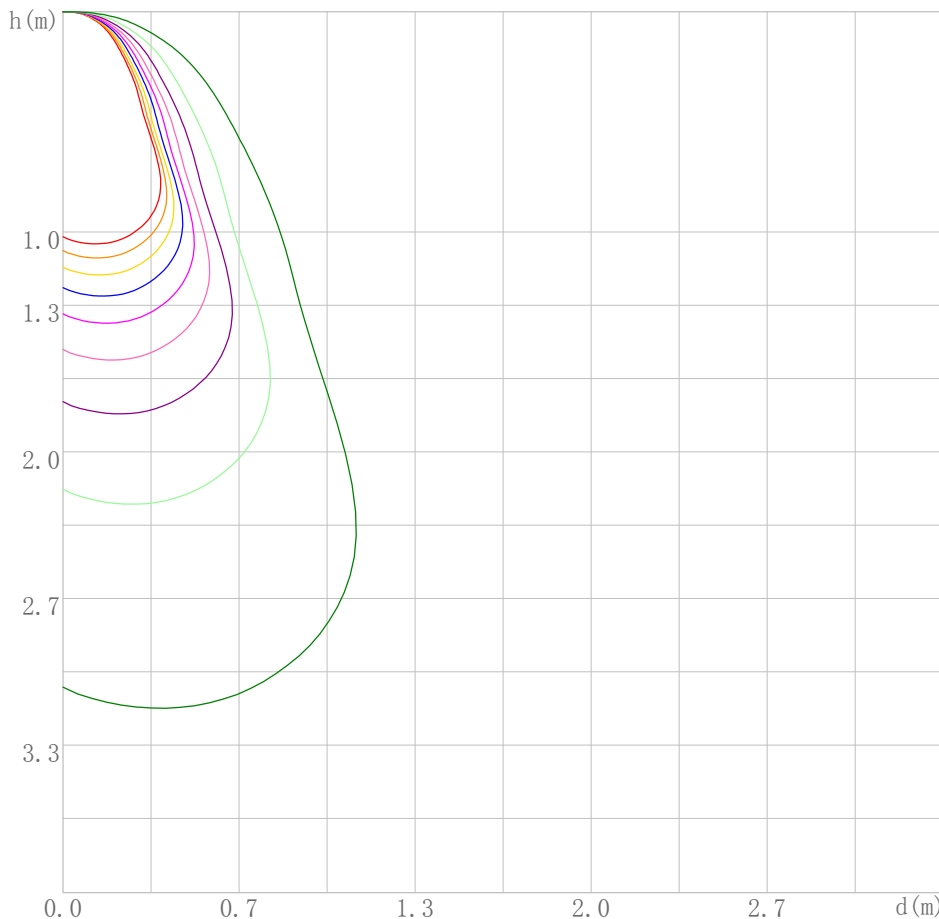
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## Space ISO Illuminance Diagram

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

Space ISO Illuminance Curve



- Curves:  
[Unit: lx]  
[EMax] =610.776
- [EMax\*90%]=549.698
  - [EMax\*80%]=488.621
  - [EMax\*70%]=427.543
  - [EMax\*60%]=366.466
  - [EMax\*50%]=305.388
  - [EMax\*40%]=244.310
  - [EMax\*30%]=183.233
  - [EMax\*20%]=122.155
  - [EMax\*10%]=61.078

Space Plane Maximum Illuminance and @Angle:610.78lx,7.0deg  
Plane Maximum Lighting Intensity and @Angle:629.876cd,0deg

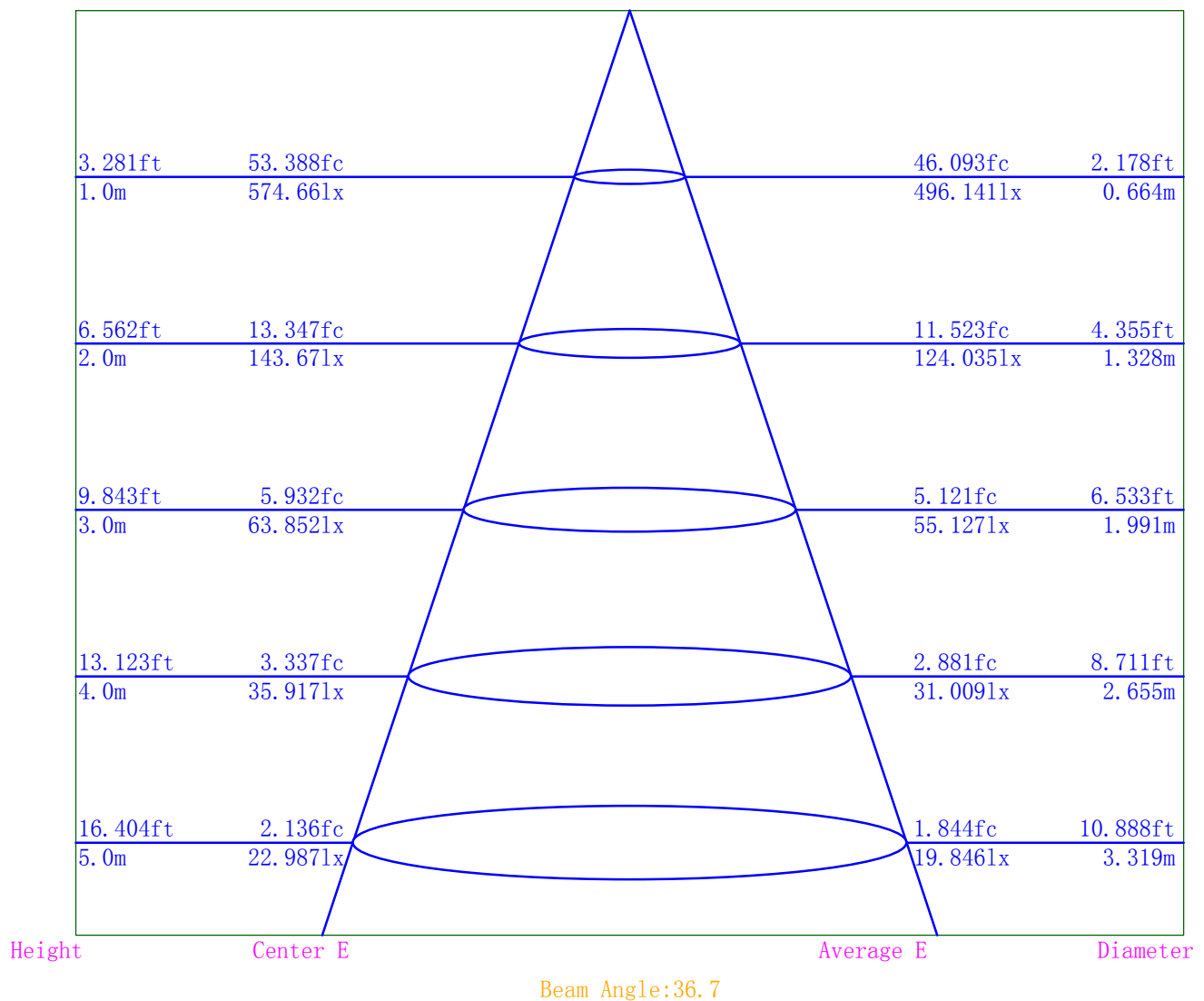
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## Illuminance-Distance Diagram

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

Illuminance-Distance Curve



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## Indoor Luminance Limiting Curves

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

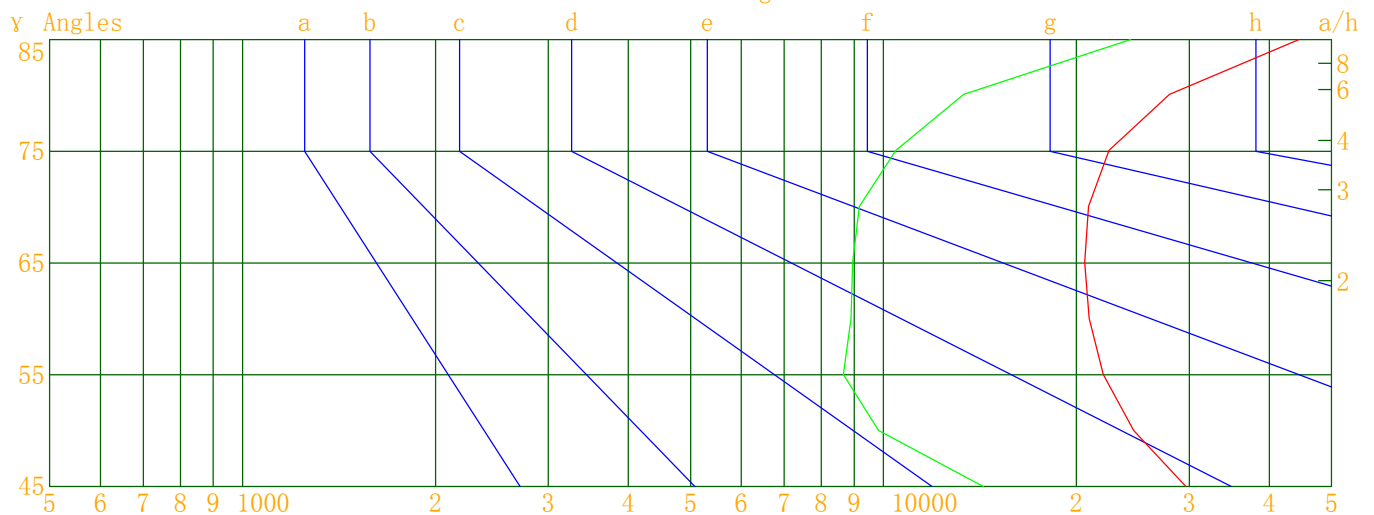
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	29616	24578	22033	20949	20596	20901	22489	27938	44468
C90	14304	9822	8663	8902	8955	9169	10454	13340	24296

Luminance Limiting Curve



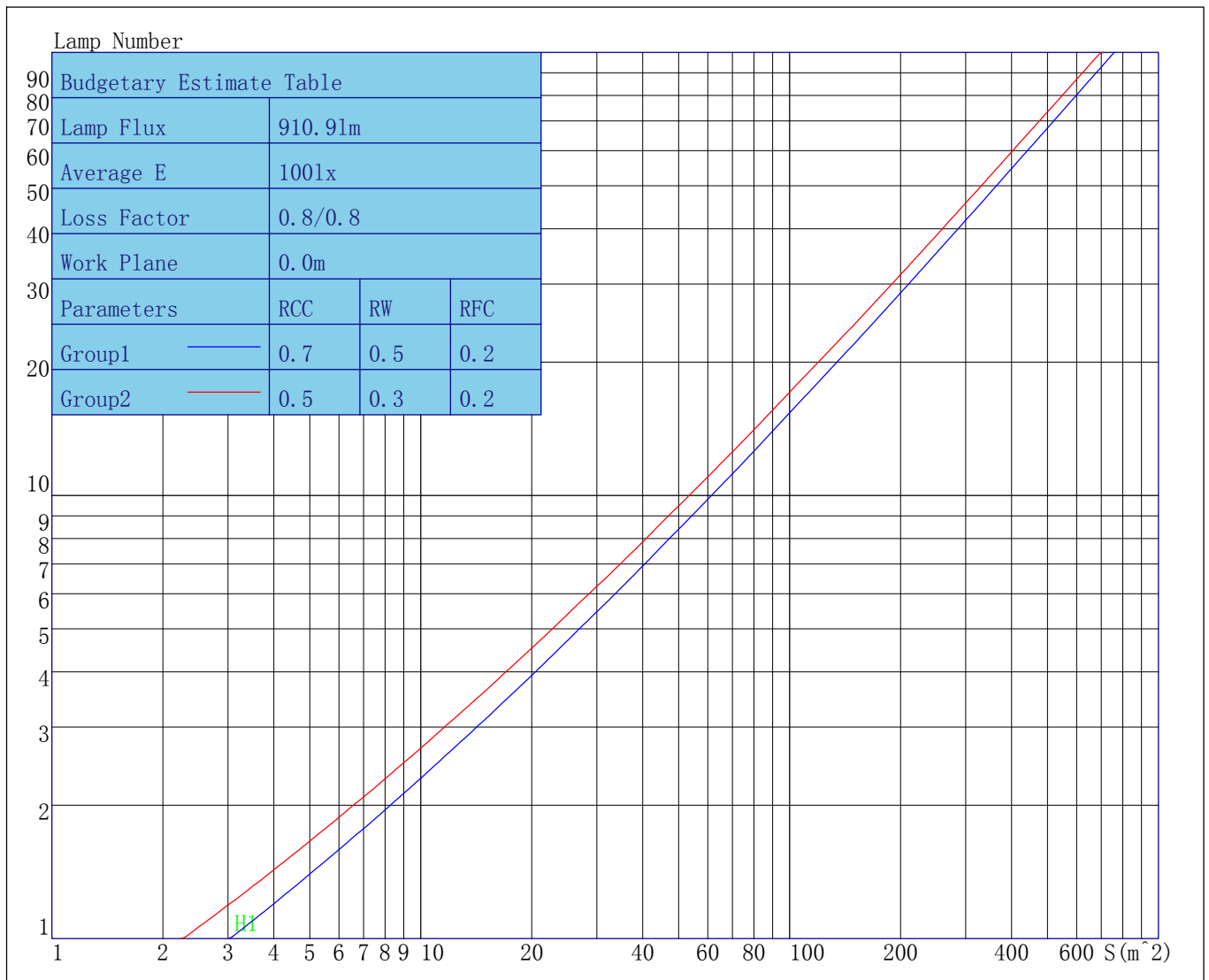
Luminous Size: Length(m)=-0.075 Width(m)=-0.075 Height(m)=0.000 Area(m<sup>2</sup>)=0.004418  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

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## Indoor Budgetary Estimate Table

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25



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

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## Indoor Coefficient of Utilization Table

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization (%)																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	100	92	86	81	97	90	84	79	85	81	77	81	77	74	77	74	72	69
3	92	83	76	70	89	81	74	69	77	72	67	74	69	65	70	67	63	61
4	86	75	68	62	83	74	66	61	70	64	59	67	62	58	65	60	57	54
5	80	69	61	55	78	67	60	54	65	58	53	62	57	52	60	55	51	49
6	75	63	55	50	73	62	55	49	60	53	48	57	52	47	55	50	47	45
7	70	58	51	45	68	57	50	45	55	49	44	53	48	43	52	47	43	41
8	66	54	47	41	64	53	46	41	52	45	41	50	44	40	48	43	39	38
9	62	51	43	38	61	50	43	38	48	42	38	47	41	37	45	40	37	35
10	59	47	40	35	58	47	40	35	45	39	35	44	38	34	43	38	34	32

# IES Indoor Report

Photometric Filename: Wall washer lamp proligh 3000K White 12W.IES

## Unified Glare Rating Table

Lum. Name:	Lum. Catalog:	Test ID: 001
Lamp Name:	Lamp Catalog:	Test Lab: Volnic IES
Manufacture:	Test Machine: GON-2000	Test Date: 2019/09/25

## Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	22.7	24.0	23.1	24.4	24.9	15.1	16.4	15.6	16.9	17.3
Y=3H	23.7	24.9	24.1	25.3	25.8	16.4	17.6	16.9	18.1	18.6
Y=4H	24.2	25.4	24.7	25.9	26.4	17.1	18.3	17.7	18.8	19.3
Y=6H	24.9	25.9	25.4	26.4	27.0	18.0	19.1	18.6	19.6	20.2
Y=8H	25.2	26.3	25.8	26.8	27.3	18.6	19.6	19.1	20.1	20.7
Y=12H	25.6	26.6	26.2	27.1	27.7	19.3	20.3	19.8	20.8	21.3
X=4H Y=2H	24.7	25.9	25.3	26.4	26.9	15.8	17.0	16.3	17.5	18.0
Y=3H	25.9	26.9	26.4	27.4	27.9	17.4	18.4	17.9	18.9	19.5
Y=4H	26.5	27.4	27.0	27.9	28.5	18.3	19.2	18.9	19.8	20.4
Y=6H	27.2	28.0	27.8	28.6	29.2	19.4	20.2	20.0	20.8	21.4
Y=8H	27.6	28.3	28.1	28.9	29.5	20.1	20.8	20.6	21.4	22.0
Y=12H	28.0	28.7	28.6	29.3	29.9	20.9	21.6	21.5	22.1	22.8
X=8H Y=4H	28.5	29.3	29.1	29.8	30.4	19.0	19.7	19.5	20.3	20.9
Y=6H	29.4	30.0	30.0	30.6	31.3	20.3	20.9	20.9	21.5	22.2
Y=8H	29.8	30.4	30.4	31.0	31.6	21.1	21.7	21.7	22.3	22.9
Y=12H	30.2	30.8	30.8	31.3	32.0	22.1	22.6	22.7	23.2	23.9
X=12H Y=4H	29.3	30.0	29.9	30.5	31.2	19.1	19.8	19.7	20.4	21.0
Y=6H	30.4	31.0	31.0	31.5	32.2	20.6	21.1	21.2	21.7	22.4
Y=8H	30.9	31.4	31.5	32.0	32.7	21.5	22.0	22.1	22.6	23.3
Variations with the objverer position at spacings										
S=1.0H	0.6/-0.6					0.1/-0.2				
S=1.5H	1.0/-1.2					0.2/-0.3				
S=2.0H	1.1/-1.4					0.2/-0.2				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	4.8					4.2				

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

# IES Indoor Report

Photometric Filename: Wall washer lamp proligh 3000K White 12W.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	574.66	574.66	574.66	574.66	574.66	574.66	574.66	574.66	574.66	574.66	574.66	574.66
Y 1.0	586.50	566.98	547.53	540.49	537.12	548.98	567.33	583.75	596.30	608.42	605.58	599.20
Y 2.0	594.97	557.64	521.59	504.90	500.84	522.25	556.64	591.22	620.41	643.60	640.64	624.41
Y 3.0	602.75	547.45	495.51	465.43	458.21	494.13	545.08	597.71	644.53	680.08	676.90	650.04
Y 4.0	609.77	536.50	464.86	425.18	419.50	460.88	532.56	603.54	668.44	718.61	715.88	676.28
Y 5.0	615.72	524.92	434.48	388.43	383.41	430.18	518.71	608.46	692.53	757.60	756.27	702.36
Y 6.0	620.67	512.76	406.10	354.17	349.54	400.94	504.86	612.18	716.14	797.33	796.55	728.67
Y 7.0	624.64	499.87	378.33	322.04	317.64	372.57	489.74	614.97	739.61	836.60	836.41	754.24
Y 8.0	627.48	485.86	351.67	292.54	288.14	345.33	472.79	616.61	762.31	875.70	876.20	778.72
Y 9.0	629.33	471.64	326.20	264.82	260.40	318.93	454.61	617.22	784.22	914.65	915.63	802.32
Y 10.0	629.88	457.81	302.16	239.47	234.89	293.82	435.57	616.80	805.19	953.53	955.36	824.71
Y 11.0	629.11	441.86	279.57	216.29	211.79	270.14	416.92	615.50	824.73	991.05	993.98	845.66
Y 12.0	627.04	425.05	258.25	195.19	191.15	247.69	398.17	613.05	842.81	1026.05	1030.87	865.50
Y 13.0	623.45	408.25	237.80	176.47	173.13	226.51	378.78	609.58	859.45	1055.33	1062.37	884.36
Y 14.0	618.68	390.30	218.42	160.38	157.39	206.92	358.95	604.99	874.45	1076.51	1086.02	901.68
Y 15.0	612.56	372.68	200.20	145.94	144.30	188.57	338.62	598.98	887.37	1088.90	1101.70	917.03
Y 16.0	605.32	354.85	183.15	134.35	133.47	171.81	317.56	591.54	896.89	1093.18	1109.74	928.29
Y 17.0	596.98	336.42	167.33	124.67	124.55	157.35	296.20	582.47	901.23	1090.87	1110.73	933.73
Y 18.0	587.49	317.28	152.86	116.73	117.07	144.50	274.87	571.68	898.42	1082.50	1105.97	933.08
Y 19.0	576.34	297.59	139.83	110.08	110.51	133.15	254.05	558.85	888.65	1069.05	1095.90	926.85
Y 20.0	563.38	276.99	128.44	104.23	104.33	123.65	233.41	543.19	872.09	1050.17	1080.32	915.54
Y 21.0	548.66	255.31	119.03	98.90	98.94	115.59	212.33	524.71	849.35	1026.70	1059.81	899.43
Y 22.0	531.96	233.19	111.35	94.25	95.08	108.61	191.32	502.55	821.27	999.13	1034.36	879.08
Y 23.0	512.98	211.17	105.07	90.92	92.46	102.85	171.28	476.57	788.52	968.76	1005.05	854.54
Y 24.0	490.81	189.60	99.74	88.61	90.54	97.71	152.88	445.94	751.55	935.39	972.05	825.75
Y 25.0	464.45	169.84	95.02	86.99	89.08	92.98	137.32	410.95	711.74	899.66	936.95	793.55
Y 26.0	433.57	152.54	90.94	85.78	87.96	88.52	124.29	371.99	669.59	862.23	899.69	758.41
Y 27.0	397.74	138.30	87.22	84.80	87.26	84.47	113.74	330.65	625.79	823.56	860.87	720.65
Y 28.0	358.79	127.19	83.81	84.01	86.73	81.45	105.07	290.47	580.93	784.07	821.19	680.29
Y 29.0	319.83	118.06	80.52	83.45	86.46	78.98	98.00	254.96	536.24	745.26	781.80	639.27
Y 30.0	283.66	110.40	77.78	83.09	86.32	76.88	91.74	225.75	492.17	707.14	743.14	597.51
Y 31.0	252.47	103.92	75.42	82.83	86.24	75.04	86.20	203.18	449.66	670.59	706.22	556.17
Y 32.0	226.88	98.55	73.25	82.69	86.35	73.40	81.07	185.08	409.59	635.78	671.61	515.61
Y 33.0	206.32	93.76	71.20	82.39	86.18	71.88	76.52	170.08	372.47	603.35	639.36	476.92
Y 34.0	189.98	89.13	69.47	82.12	86.05	70.58	72.16	157.26	338.51	573.84	609.68	440.20
Y 35.0	176.41	84.88	67.68	81.62	85.29	69.27	68.17	146.01	308.31	547.28	583.34	406.11
Y 36.0	164.86	80.81	66.03	80.68	83.71	68.11	64.40	135.78	281.83	523.24	559.75	374.75
Y 37.0	154.46	76.98	64.64	79.23	81.19	66.77	61.04	126.19	258.82	501.37	538.47	345.82
Y 38.0	144.85	73.19	63.25	76.89	77.60	65.55	57.81	117.32	238.39	481.27	519.06	318.98
Y 39.0	135.91	69.57	61.71	73.57	73.27	64.40	54.82	109.03	220.65	462.44	501.31	294.37
Y 40.0	127.51	66.22	60.44	69.57	68.32	63.19	52.07	101.32	204.63	444.43	484.57	271.83
Y 41.0	119.53	63.15	59.02	65.01	62.90	61.85	49.49	94.32	190.33	427.22	468.26	251.87
Y 42.0	112.10	60.33	57.69	60.08	57.31	60.38	47.27	87.93	177.49	409.60	452.00	233.89
Y 43.0	105.00	57.72	56.35	54.98	51.77	58.71	45.24	82.04	165.98	391.32	435.00	217.85
Y 44.0	98.48	55.13	54.96	49.66	46.44	56.80	43.40	76.82	155.41	372.22	416.70	203.54
Y 45.0	92.52	52.91	53.62	44.69	41.59	54.62	41.63	71.92	145.71	352.87	397.28	190.59
Y 46.0	87.00	50.89	52.13	40.13	37.40	52.38	40.01	67.62	136.76	334.57	378.02	178.99

# IES Indoor Report

Photometric Filename: Wall washer lamp proligh 3000K White 12W.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 47.0	82.03	48.92	50.48	36.18	33.92	49.81	38.67	63.63	128.59	318.38	359.87	168.63
Y 48.0	77.57	47.28	48.83	32.92	31.16	47.28	37.37	60.17	121.02	304.90	343.69	159.23
Y 49.0	73.42	45.68	47.00	30.17	28.75	44.70	36.22	56.93	114.17	293.32	329.66	150.66
Y 50.0	69.79	44.23	45.08	27.89	26.61	41.96	34.98	54.02	107.82	283.64	318.14	142.84
Y 51.0	66.43	42.93	42.99	25.83	25.21	39.21	33.98	51.23	102.23	275.21	308.13	135.68
Y 52.0	63.44	41.64	40.90	24.28	24.32	36.70	32.89	48.71	97.04	267.56	299.39	129.22
Y 53.0	60.75	40.40	38.82	23.22	23.63	34.23	31.99	46.46	92.44	260.71	291.37	123.35
Y 54.0	58.19	39.31	36.86	22.55	23.08	31.92	31.02	44.34	88.19	254.42	284.07	117.96
Y 55.0	55.83	38.16	34.78	21.95	22.61	30.00	30.26	42.34	84.33	248.80	277.72	113.01
Y 56.0	53.69	37.22	32.77	21.49	22.14	28.16	29.39	40.48	80.83	243.76	272.06	108.40
Y 57.0	51.68	36.23	30.97	21.06	21.75	26.42	28.55	38.78	77.56	239.10	266.85	104.02
Y 58.0	49.76	35.14	29.23	20.66	21.28	24.82	27.78	37.12	74.50	234.79	261.84	100.18
Y 59.0	48.01	34.18	27.67	20.15	20.90	23.48	26.86	35.51	71.75	230.94	257.17	96.66
Y 60.0	46.28	33.05	26.18	19.66	20.31	22.40	25.97	34.06	69.10	227.03	252.65	93.32
Y 61.0	44.65	32.04	24.86	19.26	19.71	21.47	25.15	32.65	66.55	223.25	248.21	90.25
Y 62.0	43.03	31.07	23.69	18.64	19.05	20.61	24.29	31.21	64.07	219.10	243.53	87.37
Y 63.0	41.39	30.04	22.62	18.13	18.33	19.84	23.49	29.92	61.86	215.14	238.81	84.60
Y 64.0	39.89	28.97	21.68	17.36	17.57	19.08	22.74	28.66	59.80	211.24	234.18	81.87
Y 65.0	38.45	27.94	20.87	16.72	16.88	18.35	22.06	27.41	57.78	207.29	229.60	79.35
Y 66.0	37.03	26.78	20.08	16.05	16.21	17.77	21.21	26.32	55.99	203.44	225.33	77.09
Y 67.0	35.67	25.90	19.39	15.46	15.62	17.18	20.52	24.94	54.20	199.97	221.26	74.81
Y 68.0	34.21	25.08	18.71	14.87	15.06	16.61	19.69	23.78	52.49	196.72	217.41	72.63
Y 69.0	32.91	24.20	18.04	14.33	14.72	15.99	18.93	22.52	50.72	193.61	213.88	70.56
Y 70.0	31.58	23.34	17.37	13.85	14.31	15.38	18.08	21.44	48.90	190.63	210.73	68.71
Y 71.0	30.33	22.53	16.67	13.48	13.89	14.92	17.27	20.37	47.27	187.30	207.04	66.72
Y 72.0	29.11	21.77	16.16	13.10	13.48	14.27	16.49	19.23	45.67	183.27	202.61	64.83
Y 73.0	27.91	20.97	15.62	12.71	13.08	13.83	15.78	18.20	44.38	180.81	199.36	63.06
Y 74.0	26.78	20.20	15.04	12.35	12.76	13.31	14.95	17.37	43.12	178.88	196.35	61.28
Y 75.0	25.71	19.43	14.47	11.95	12.28	12.76	14.15	16.53	41.93	176.88	193.71	59.93
Y 76.0	24.63	18.84	13.90	11.57	11.95	12.21	13.32	15.80	40.85	174.51	190.74	58.45
Y 77.0	23.73	17.97	13.39	11.25	11.53	11.80	12.53	15.17	39.66	171.66	187.17	57.23
Y 78.0	22.96	17.08	12.93	10.83	11.06	11.45	11.71	14.67	38.43	168.47	183.52	55.83
Y 79.0	22.22	16.29	12.43	10.45	10.76	11.08	10.92	13.96	36.94	164.53	179.05	54.31
Y 80.0	21.43	15.58	11.96	10.23	10.37	10.75	10.11	13.41	35.27	159.14	174.01	52.65
Y 81.0	20.66	14.86	11.55	9.88	10.03	10.37	9.38	12.73	33.05	151.57	167.40	50.46
Y 82.0	19.81	14.16	11.12	9.61	9.91	10.08	8.85	12.07	30.78	142.54	158.40	47.65
Y 83.0	18.88	13.45	10.78	9.45	9.79	9.83	8.31	11.52	28.37	132.09	148.03	44.60
Y 84.0	18.08	12.66	10.52	9.37	9.72	9.62	7.92	10.91	25.76	119.68	135.98	41.05
Y 85.0	17.12	12.09	10.25	9.35	9.56	9.38	7.51	10.26	23.08	105.02	122.27	37.29
Y 86.0	16.14	11.41	10.04	9.17	9.58	9.25	7.07	9.63	20.35	87.88	105.75	33.12
Y 87.0	15.24	10.73	9.76	9.06	9.45	9.01	6.73	9.06	17.48	67.91	86.51	28.65
Y 88.0	14.34	10.14	9.48	9.01	9.46	8.91	6.35	8.58	14.75	46.29	64.07	23.96
Y 89.0	13.49	9.52	9.31	9.05	9.51	8.77	6.08	8.13	12.22	25.78	39.76	19.41
Y 90.0	12.79	8.95	9.11	8.97	9.40	8.75	6.02	7.89	10.94	15.43	16.53	14.86
Y 91.0	12.22	8.53	9.10	8.97	9.45	8.77	6.05	7.89	10.41	14.31	13.65	13.64
Y 92.0	11.90	8.48	9.00	9.03	9.44	8.69	6.01	7.68	9.79	13.33	12.77	12.82
Y 93.0	11.49	8.44	9.04	9.04	9.35	8.65	6.08	7.51	9.20	10.24	11.82	12.09



# IES Indoor Report

Photometric Filename: Wall washer lamp proligh 3000K White 12W.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 94.0	11.12	8.38	9.11	8.99	9.38	8.69	6.11	7.37	8.61	8.65	10.84	11.25
Y 95.0	10.79	8.39	9.01	9.06	9.42	8.67	6.05	7.13	8.01	8.49	9.77	10.38
Y 96.0	10.38	8.33	8.99	9.16	9.50	8.77	6.11	6.97	7.42	8.26	8.82	9.69
Y 97.0	10.07	8.19	8.99	9.10	9.42	8.84	6.12	6.89	7.03	8.14	7.95	8.90
Y 98.0	9.88	8.24	8.99	9.10	9.54	8.75	6.19	6.75	6.63	7.96	7.40	8.34
Y 99.0	9.55	8.15	8.92	9.14	9.53	8.80	6.32	6.58	6.44	7.90	7.34	8.08
Y 100.0	9.35	8.12	8.96	9.16	9.60	8.82	6.22	6.48	6.30	7.77	7.23	7.97
Y 101.0	9.27	8.09	9.00	9.23	9.48	8.83	6.36	6.47	6.24	7.62	7.22	7.81
Y 102.0	9.23	8.03	8.94	9.26	9.63	8.88	6.28	6.47	6.21	7.55	7.03	7.66
Y 103.0	9.18	8.04	8.98	9.27	9.64	8.94	6.35	6.43	6.22	7.57	7.11	7.63
Y 104.0	9.05	8.03	9.06	9.36	9.73	8.98	6.45	6.46	6.21	7.37	7.09	7.47
Y 105.0	9.05	8.06	9.06	9.38	9.76	8.93	6.63	6.43	6.18	7.36	6.91	7.34
Y 106.0	8.96	8.06	9.13	9.45	9.81	8.99	6.53	6.41	6.16	7.25	6.98	7.30
Y 107.0	8.82	8.10	9.06	9.52	9.92	9.01	6.72	6.41	6.12	7.21	6.90	7.26
Y 108.0	8.79	8.03	9.13	9.63	10.01	9.05	6.70	6.32	6.10	7.11	6.94	7.17
Y 109.0	8.76	8.03	9.18	9.63	10.09	9.17	6.78	6.47	6.07	7.07	6.82	7.16
Y 110.0	8.68	8.08	9.27	9.70	10.18	9.19	6.90	6.53	6.05	7.03	6.76	7.15
Y 111.0	8.61	8.14	9.30	9.86	10.23	9.28	7.04	6.51	6.08	7.07	6.72	7.04
Y 112.0	8.54	8.22	9.33	9.89	10.39	9.45	7.12	6.70	5.98	6.94	6.65	7.08
Y 113.0	8.52	8.30	9.41	10.10	10.29	9.54	7.23	6.62	6.01	6.92	6.68	6.99
Y 114.0	8.42	8.28	9.53	10.17	10.32	9.61	7.31	6.71	6.10	6.76	6.50	7.07
Y 115.0	8.45	8.43	9.54	10.25	10.40	9.67	7.42	6.73	6.07	6.74	6.52	7.02
Y 116.0	8.46	8.43	9.64	10.36	10.45	9.78	7.61	6.78	6.04	6.65	6.51	6.97
Y 117.0	8.38	8.45	9.74	10.49	10.67	9.88	7.68	6.78	6.12	6.65	6.44	7.00
Y 118.0	8.42	8.55	9.93	10.52	10.76	9.98	7.80	6.86	6.14	6.60	6.35	6.92
Y 119.0	8.50	8.56	9.89	10.58	10.83	10.02	7.90	6.99	6.10	6.56	6.32	6.94
Y 120.0	8.51	8.61	10.17	10.73	10.91	10.07	8.00	6.95	6.19	6.62	6.28	6.94
Y 121.0	8.55	8.71	10.06	10.84	11.00	10.16	8.16	7.20	6.19	6.61	6.30	6.94
Y 122.0	8.56	8.82	10.21	10.93	11.07	10.30	8.23	7.26	6.25	6.58	6.32	7.02
Y 123.0	8.57	8.87	10.31	11.03	11.15	10.36	8.35	7.41	6.30	6.62	6.35	6.99
Y 124.0	8.58	8.98	10.48	11.13	11.23	10.53	8.49	7.52	6.29	6.66	6.28	7.00
Y 125.0	8.61	9.11	10.54	11.20	11.39	10.59	8.64	7.55	6.41	6.69	6.32	7.10
Y 126.0	8.67	9.11	10.61	11.27	11.40	10.77	8.74	7.64	6.54	6.67	6.41	7.16
Y 127.0	8.73	9.25	10.63	11.42	11.53	10.90	8.87	7.69	6.65	6.72	6.33	7.06
Y 128.0	8.78	9.24	10.79	11.45	11.62	11.04	9.10	7.85	6.71	6.79	6.35	7.15
Y 129.0	8.85	9.43	10.88	11.56	11.69	11.05	9.22	7.99	6.70	6.78	6.54	7.24
Y 130.0	8.97	9.53	11.03	11.53	11.84	11.10	9.27	8.11	6.84	6.83	6.52	7.25
Y 131.0	9.01	9.63	11.02	11.57	11.96	11.24	9.33	8.18	6.97	6.94	6.57	7.34
Y 132.0	9.13	9.80	11.20	11.75	12.07	11.26	9.61	8.25	7.02	6.98	6.72	7.39
Y 133.0	9.18	9.80	11.29	11.80	12.16	11.32	9.74	8.41	7.15	7.13	6.76	7.52
Y 134.0	9.29	10.02	11.29	11.89	12.15	11.44	9.84	8.66	7.20	7.15	6.85	7.65
Y 135.0	9.34	10.12	11.49	11.96	12.23	11.52	9.92	8.76	7.41	7.23	6.93	7.69
Y 136.0	9.40	10.09	11.44	11.93	12.27	11.60	10.02	8.84	7.46	7.38	7.03	7.85
Y 137.0	9.55	10.15	11.64	12.09	12.35	11.58	10.20	9.01	7.66	7.43	7.12	8.00
Y 138.0	9.59	10.30	11.63	12.13	12.35	11.64	10.20	9.14	7.80	7.57	7.30	8.04
Y 139.0	9.69	10.36	11.53	12.10	12.32	11.72	10.37	9.29	7.92	7.76	7.29	8.21
Y 140.0	9.73	10.52	11.68	12.17	12.38	11.78	10.48	9.41	8.07	7.80	7.49	8.35

# IES Indoor Report

Photometric Filename: Wall washer lamp proligh 3000K White 12W.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 141.0	9.91	10.52	11.64	12.14	12.45	11.93	10.58	9.53	8.16	7.88	7.57	8.49
Y 142.0	10.03	10.63	11.64	12.17	12.42	11.86	10.72	9.81	8.23	7.91	7.79	8.58
Y 143.0	10.02	10.77	11.69	12.17	12.42	11.89	10.73	9.84	8.44	8.18	7.93	8.74
Y 144.0	10.12	10.77	11.78	12.11	12.39	11.95	10.81	10.05	8.56	8.22	8.05	8.87
Y 145.0	10.20	10.82	11.70	12.20	12.35	11.99	10.84	10.10	8.74	8.44	8.16	8.90
Y 146.0	10.30	10.94	11.80	12.19	12.34	12.01	11.12	10.21	8.92	8.53	8.32	9.00
Y 147.0	10.38	10.95	11.80	12.14	12.21	11.98	11.09	10.33	8.96	8.63	8.50	9.14
Y 148.0	10.35	11.07	11.80	12.09	12.25	12.04	11.16	10.45	9.19	8.83	8.62	9.30
Y 149.0	10.52	11.06	11.83	12.10	12.24	11.93	11.18	10.62	9.36	8.92	8.70	9.50
Y 150.0	10.64	11.18	11.85	12.00	12.16	11.92	11.16	10.62	9.46	9.05	8.83	9.59
Y 151.0	10.74	11.16	11.84	12.00	12.16	11.95	11.20	10.72	9.59	9.16	8.97	9.77
Y 152.0	10.84	11.24	11.78	11.98	12.16	11.90	11.32	10.79	9.78	9.15	9.09	9.84
Y 153.0	10.93	11.22	11.81	11.93	12.04	11.90	11.31	10.89	9.87	9.46	9.28	9.97
Y 154.0	10.96	11.24	11.80	11.88	12.03	11.85	11.32	10.89	9.98	9.59	9.39	10.06
Y 155.0	11.02	11.23	11.79	11.80	11.93	11.82	11.38	10.93	10.08	9.75	9.35	10.06
Y 156.0	11.05	11.24	11.70	11.70	11.89	11.70	11.33	11.10	10.15	9.87	9.60	10.29
Y 157.0	11.17	11.19	11.60	11.63	11.93	11.79	11.32	11.12	10.25	9.98	9.78	10.38
Y 158.0	11.24	11.26	11.49	11.66	11.81	11.73	11.33	11.14	10.31	10.02	9.88	10.58
Y 159.0	11.24	11.23	11.55	11.66	11.78	11.72	11.35	11.12	10.32	10.16	10.11	10.56
Y 160.0	11.35	11.26	11.46	11.57	11.64	11.65	11.31	11.26	10.58	10.43	10.17	10.70
Y 161.0	11.36	11.21	11.41	11.40	11.68	11.52	11.26	11.23	10.64	10.47	10.19	10.74
Y 162.0	11.30	11.22	11.29	11.36	11.55	11.53	11.34	11.20	10.74	10.59	10.37	10.80
Y 163.0	11.37	11.10	11.30	11.34	11.56	11.43	11.21	11.24	10.83	10.77	10.49	10.91
Y 164.0	11.47	11.13	11.36	11.31	11.51	11.47	11.22	11.16	10.88	10.81	10.51	11.05
Y 165.0	11.46	11.08	11.23	11.23	11.43	11.43	11.15	11.17	10.92	10.91	10.55	11.01
Y 166.0	11.42	11.02	11.19	11.24	11.42	11.44	11.12	11.14	10.89	10.97	10.61	11.10
Y 167.0	11.43	11.04	11.23	11.17	11.38	11.44	11.17	11.20	11.06	11.02	10.85	11.16
Y 168.0	11.40	11.11	11.26	11.12	11.38	11.39	11.13	11.23	11.02	11.19	10.86	11.24
Y 169.0	11.46	11.04	11.18	11.14	11.43	11.37	11.25	11.16	11.05	11.19	10.98	11.28
Y 170.0	11.48	11.05	11.14	11.16	11.57	11.40	11.20	11.21	11.13	11.32	11.04	11.34
Y 171.0	11.45	11.03	11.07	11.21	11.48	11.49	11.19	11.17	11.20	11.27	11.10	11.41
Y 172.0	11.43	11.09	11.12	11.22	11.54	11.41	11.29	11.20	11.22	11.37	11.15	11.52
Y 173.0	11.43	11.12	11.19	11.27	11.54	11.55	11.25	11.17	11.20	11.40	11.19	11.42
Y 174.0	11.38	11.09	11.26	11.25	11.53	11.42	11.35	11.18	11.31	11.42	11.30	11.56
Y 175.0	11.45	11.11	11.30	11.24	11.54	11.36	11.34	11.13	11.27	11.44	11.36	11.61
Y 176.0	11.43	11.13	11.42	11.40	11.56	11.54	11.39	11.26	11.32	11.42	11.33	11.59
Y 177.0	11.38	11.14	11.37	11.42	11.60	11.50	11.40	11.27	11.27	11.47	11.47	11.71
Y 178.0	11.50	11.17	11.43	11.51	11.55	11.46	11.48	11.35	11.34	11.54	11.48	11.76
Y 179.0	11.46	11.21	11.38	11.52	11.57	11.48	11.53	11.32	11.31	11.53	11.48	11.60
Y 180.0	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48