

# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 24度 9W.IES

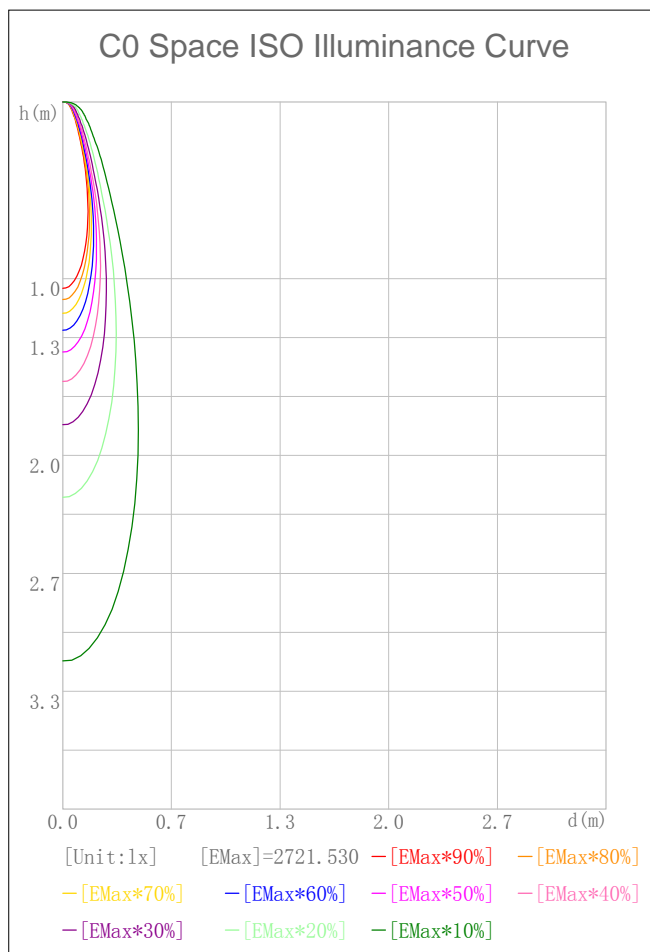
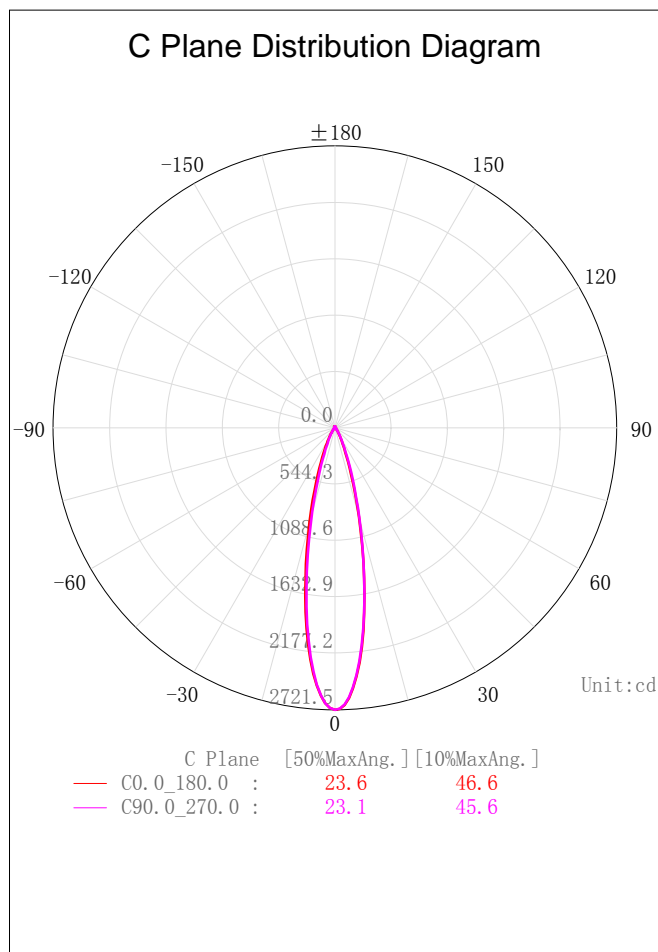
## Indoor Luminaire Photometric Data

### 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): 680.220	Luminary Flux (lm): 680.225	Field Angle (10%Imax): 46.6(°)	
Rated Power (W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 635.608lm 93.44%	
Rated Voltage (V):	Luminary EER (lm/W): 77.237	Up Lumens&Percent: 44.617lm 6.56%	
Tested Power (W): 8.807	Max. Candela (cd): 2721.530	S/MH: C0_a180=0.399 C90_270=0.391	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.1, 0.073, 0.545	Beam Angle (50%Imax): 23.6(°)	ErP Φ use (90°): 597.607lm	
Lamp Size (W*L*H): 0.075m*0.075m*0.000m	Left=-11.9°, Right=11.8°	IRF (%): 940.544	



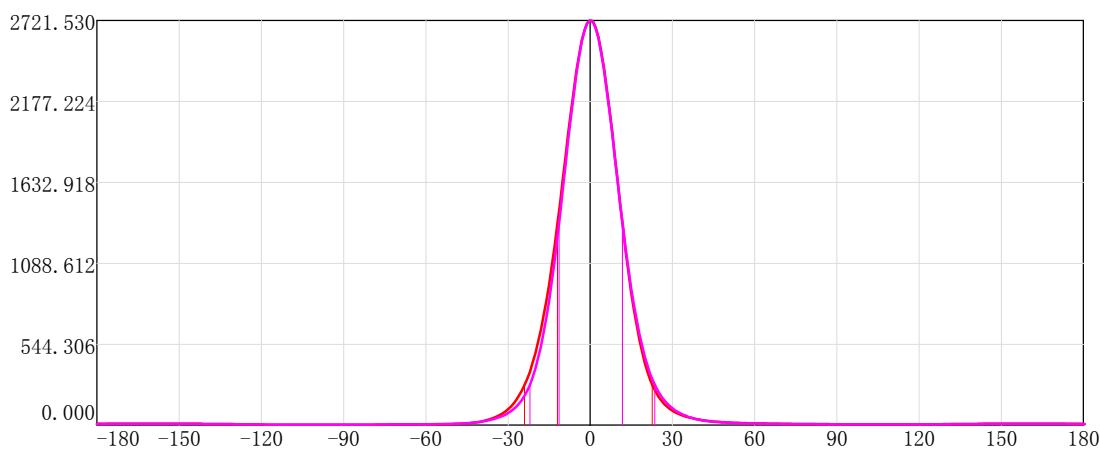
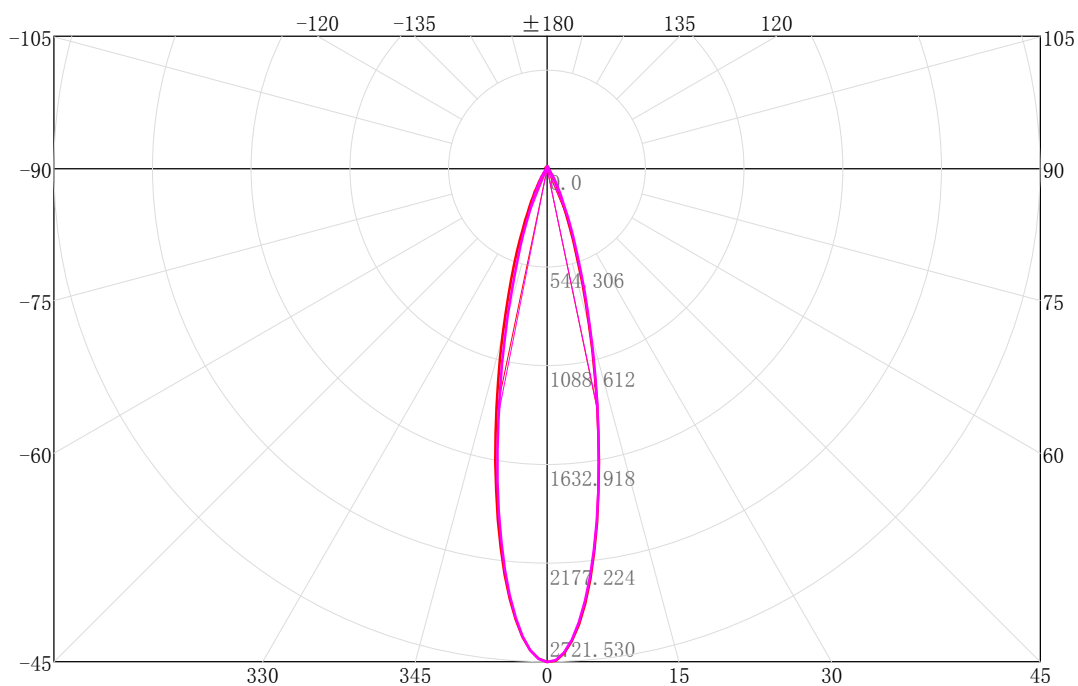
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## 2D Plane Light Intensity Distribution Curve

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 Distribution Diagram



—	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C0. 0_180. 0 :	23.6	46.6	
—	C90. 0_270. 0 :	23.1	45.6	

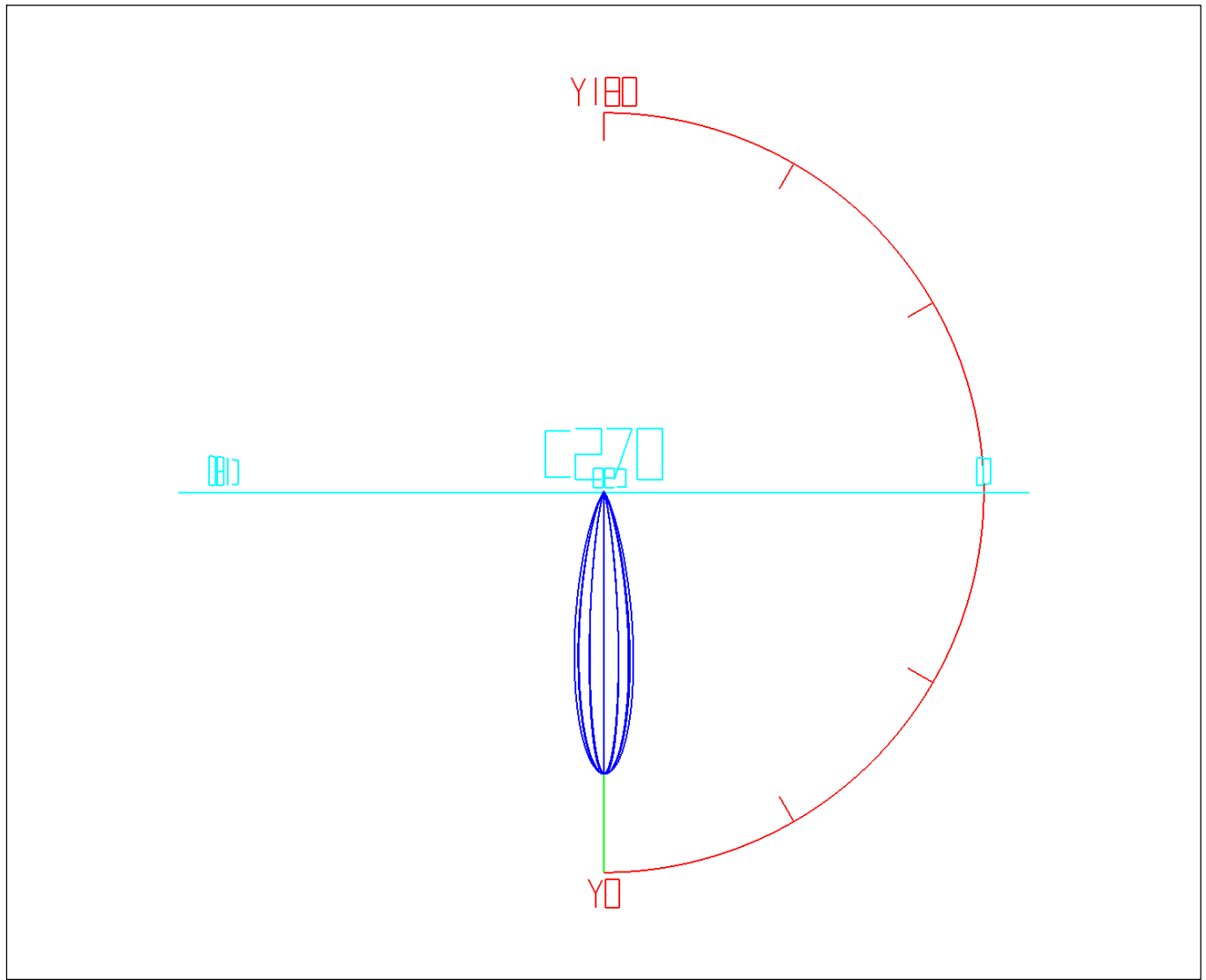
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## 3D Light Intensity Distribution Modal

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	2.60	2.60	0.38	0.38	47.0-48.0	1.34	599.86	0.20	88.19
1.0-2.0	7.71	10.31	1.13	1.52	48.0-49.0	1.28	601.14	0.19	88.38
2.0-3.0	12.58	22.89	1.85	3.36	49.0-50.0	1.23	602.38	0.18	88.56
3.0-4.0	17.06	39.94	2.51	5.87	50.0-51.0	1.18	603.56	0.17	88.73
4.0-5.0	21.02	60.96	3.09	8.96	51.0-52.0	1.14	604.70	0.17	88.90
5.0-6.0	24.38	85.34	3.58	12.55	52.0-53.0	1.10	605.81	0.16	89.06
6.0-7.0	27.06	112.40	3.98	16.52	53.0-54.0	1.06	606.87	0.16	89.22
7.0-8.0	29.03	141.43	4.27	20.79	54.0-55.0	1.01	607.88	0.15	89.37
8.0-9.0	30.30	171.73	4.45	25.25	55.0-56.0	0.98	608.86	0.14	89.51
9.0-10.0	30.89	202.62	4.54	29.79	56.0-57.0	0.96	609.82	0.14	89.65
10.0-11.0	30.88	233.51	4.54	34.33	57.0-58.0	0.94	610.76	0.14	89.79
11.0-12.0	30.35	263.86	4.46	38.79	58.0-59.0	0.93	611.70	0.14	89.93
12.0-13.0	29.38	293.24	4.32	43.11	59.0-60.0	0.92	612.62	0.14	90.06
13.0-14.0	28.05	321.30	4.12	47.23	60.0-61.0	0.91	613.53	0.13	90.20
14.0-15.0	26.45	347.75	3.89	51.12	61.0-62.0	0.90	614.44	0.13	90.33
15.0-16.0	24.66	372.41	3.63	54.75	62.0-63.0	0.89	615.33	0.13	90.46
16.0-17.0	22.78	395.19	3.35	58.10	63.0-64.0	0.88	616.22	0.13	90.59
17.0-18.0	20.89	416.08	3.07	61.17	64.0-65.0	0.87	617.09	0.13	90.72
18.0-19.0	19.03	435.11	2.80	63.97	65.0-66.0	0.86	617.95	0.13	90.85
19.0-20.0	17.22	452.33	2.53	66.50	66.0-67.0	0.85	618.81	0.13	90.97
20.0-21.0	15.48	467.81	2.28	68.77	67.0-68.0	0.84	619.65	0.12	91.10
21.0-22.0	13.86	481.67	2.04	70.81	68.0-69.0	0.83	620.48	0.12	91.22
22.0-23.0	12.39	494.05	1.82	72.63	69.0-70.0	0.82	621.30	0.12	91.34
23.0-24.0	11.08	505.13	1.63	74.26	70.0-71.0	0.81	622.11	0.12	91.46
24.0-25.0	9.91	515.04	1.46	75.72	71.0-72.0	0.80	622.92	0.12	91.58
25.0-26.0	8.88	523.91	1.30	77.02	72.0-73.0	0.79	623.71	0.12	91.69
26.0-27.0	7.96	531.87	1.17	78.19	73.0-74.0	0.78	624.48	0.11	91.81
27.0-28.0	7.15	539.02	1.05	79.24	74.0-75.0	0.77	625.25	0.11	91.92
28.0-29.0	6.44	545.46	0.95	80.19	75.0-76.0	0.76	626.01	0.11	92.03
29.0-30.0	5.81	551.26	0.85	81.04	76.0-77.0	0.74	626.75	0.11	92.14
30.0-31.0	5.24	556.50	0.77	81.81	77.0-78.0	0.74	627.49	0.11	92.25
31.0-32.0	4.73	561.24	0.70	82.51	78.0-79.0	0.72	628.21	0.11	92.35
32.0-33.0	4.29	565.53	0.63	83.14	79.0-80.0	0.71	628.93	0.10	92.46
33.0-34.0	3.90	569.43	0.57	83.71	80.0-81.0	0.71	629.63	0.10	92.56
34.0-35.0	3.56	573.00	0.52	84.24	81.0-82.0	0.70	630.33	0.10	92.67
35.0-36.0	3.26	576.25	0.48	84.72	82.0-83.0	0.69	631.02	0.10	92.77
36.0-37.0	2.98	579.23	0.44	85.15	83.0-84.0	0.68	631.70	0.10	92.87
37.0-38.0	2.72	581.95	0.40	85.55	84.0-85.0	0.67	632.37	0.10	92.97
38.0-39.0	2.49	584.44	0.37	85.92	85.0-86.0	0.66	633.03	0.10	93.06
39.0-40.0	2.27	586.71	0.33	86.25	86.0-87.0	0.65	633.68	0.10	93.16
40.0-41.0	2.06	588.77	0.30	86.56	87.0-88.0	0.65	634.33	0.10	93.25
41.0-42.0	1.89	590.66	0.28	86.83	88.0-89.0	0.64	634.97	0.09	93.35
42.0-43.0	1.76	592.42	0.26	87.09	89.0-90.0	0.63	635.61	0.09	93.44
43.0-44.0	1.65	594.08	0.24	87.34	90.0-91.0	0.63	636.23	0.09	93.53
44.0-45.0	1.56	595.63	0.23	87.56	91.0-92.0	0.62	636.86	0.09	93.62
45.0-46.0	1.48	597.11	0.22	87.78	92.0-93.0	0.62	637.47	0.09	93.72
46.0-47.0	1.41	598.52	0.21	87.99	93.0-94.0	0.61	638.09	0.09	93.81

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## Zonal Flux Tabulation - (Cont.)

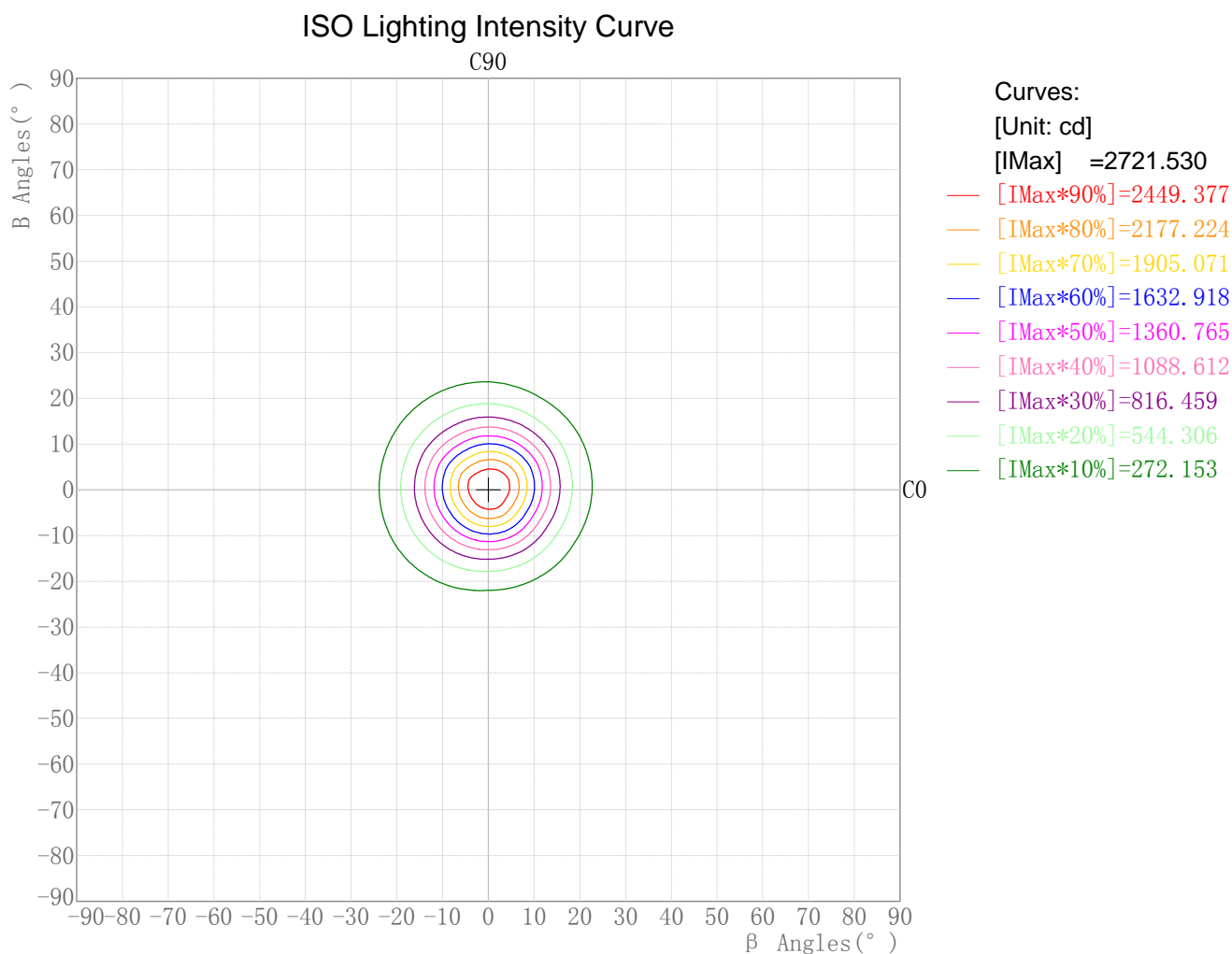
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.61	638.69	0.09	93.90	141.0-142.0	0.65	666.51	0.10	97.98
95.0-96.0	0.60	639.30	0.09	93.98	142.0-143.0	0.65	667.15	0.10	98.08
96.0-97.0	0.60	639.89	0.09	94.07	143.0-144.0	0.64	667.80	0.09	98.17
97.0-98.0	0.59	640.49	0.09	94.16	144.0-145.0	0.63	668.43	0.09	98.27
98.0-99.0	0.59	641.08	0.09	94.25	145.0-146.0	0.63	669.05	0.09	98.36
99.0-100.0	0.58	641.66	0.09	94.33	146.0-147.0	0.62	669.67	0.09	98.45
100.0-101.0	0.58	642.24	0.08	94.42	147.0-148.0	0.60	670.27	0.09	98.54
101.0-102.0	0.57	642.81	0.08	94.50	148.0-149.0	0.59	670.87	0.09	98.62
102.0-103.0	0.57	643.38	0.08	94.58	149.0-150.0	0.58	671.44	0.09	98.71
103.0-104.0	0.57	643.95	0.08	94.67	150.0-151.0	0.56	672.01	0.08	98.79
104.0-105.0	0.56	644.51	0.08	94.75	151.0-152.0	0.55	672.56	0.08	98.87
105.0-106.0	0.56	645.08	0.08	94.83	152.0-153.0	0.53	673.09	0.08	98.95
106.0-107.0	0.56	645.64	0.08	94.92	153.0-154.0	0.52	673.61	0.08	99.03
107.0-108.0	0.56	646.20	0.08	95.00	154.0-155.0	0.50	674.11	0.07	99.10
108.0-109.0	0.56	646.75	0.08	95.08	155.0-156.0	0.48	674.59	0.07	99.17
109.0-110.0	0.55	647.31	0.08	95.16	156.0-157.0	0.46	675.06	0.07	99.24
110.0-111.0	0.55	647.86	0.08	95.24	157.0-158.0	0.45	675.50	0.07	99.31
111.0-112.0	0.55	648.41	0.08	95.32	158.0-159.0	0.43	675.93	0.06	99.37
112.0-113.0	0.55	648.96	0.08	95.40	159.0-160.0	0.41	676.34	0.06	99.43
113.0-114.0	0.55	649.51	0.08	95.49	160.0-161.0	0.39	676.72	0.06	99.49
114.0-115.0	0.55	650.07	0.08	95.57	161.0-162.0	0.37	677.09	0.05	99.54
115.0-116.0	0.55	650.62	0.08	95.65	162.0-163.0	0.35	677.44	0.05	99.59
116.0-117.0	0.55	651.17	0.08	95.73	163.0-164.0	0.33	677.76	0.05	99.64
117.0-118.0	0.56	651.73	0.08	95.81	164.0-165.0	0.31	678.07	0.05	99.68
118.0-119.0	0.56	652.29	0.08	95.89	165.0-166.0	0.29	678.36	0.04	99.73
119.0-120.0	0.56	652.85	0.08	95.98	166.0-167.0	0.26	678.62	0.04	99.76
120.0-121.0	0.56	653.41	0.08	96.06	167.0-168.0	0.24	678.86	0.04	99.80
121.0-122.0	0.57	653.98	0.08	96.14	168.0-169.0	0.22	679.09	0.03	99.83
122.0-123.0	0.57	654.55	0.08	96.23	169.0-170.0	0.20	679.29	0.03	99.86
123.0-124.0	0.58	655.13	0.08	96.31	170.0-171.0	0.18	679.47	0.03	99.89
124.0-125.0	0.58	655.71	0.09	96.40	171.0-172.0	0.16	679.63	0.02	99.91
125.0-126.0	0.59	656.30	0.09	96.48	172.0-173.0	0.14	679.77	0.02	99.93
126.0-127.0	0.60	656.89	0.09	96.57	173.0-174.0	0.12	679.89	0.02	99.95
127.0-128.0	0.60	657.50	0.09	96.66	174.0-175.0	0.10	679.99	0.01	99.97
128.0-129.0	0.61	658.11	0.09	96.75	175.0-176.0	0.08	680.08	0.01	99.98
129.0-130.0	0.62	658.72	0.09	96.84	176.0-177.0	0.06	680.14	0.01	99.99
130.0-131.0	0.62	659.35	0.09	96.93	177.0-178.0	0.05	680.19	0.01	100.00
131.0-132.0	0.63	659.98	0.09	97.02	178.0-179.0	0.03	680.22	0.00	100.00
132.0-133.0	0.64	660.62	0.09	97.12	179.0-180.0	0.01	680.22	0.00	100.00
133.0-134.0	0.64	661.26	0.09	97.21					
134.0-135.0	0.65	661.91	0.10	97.31					
135.0-136.0	0.65	662.56	0.10	97.40					
136.0-137.0	0.66	663.22	0.10	97.50					
137.0-138.0	0.66	663.88	0.10	97.60					
138.0-139.0	0.66	664.54	0.10	97.69					
139.0-140.0	0.66	665.20	0.10	97.79					
140.0-141.0	0.66	665.85	0.10	97.89					

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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



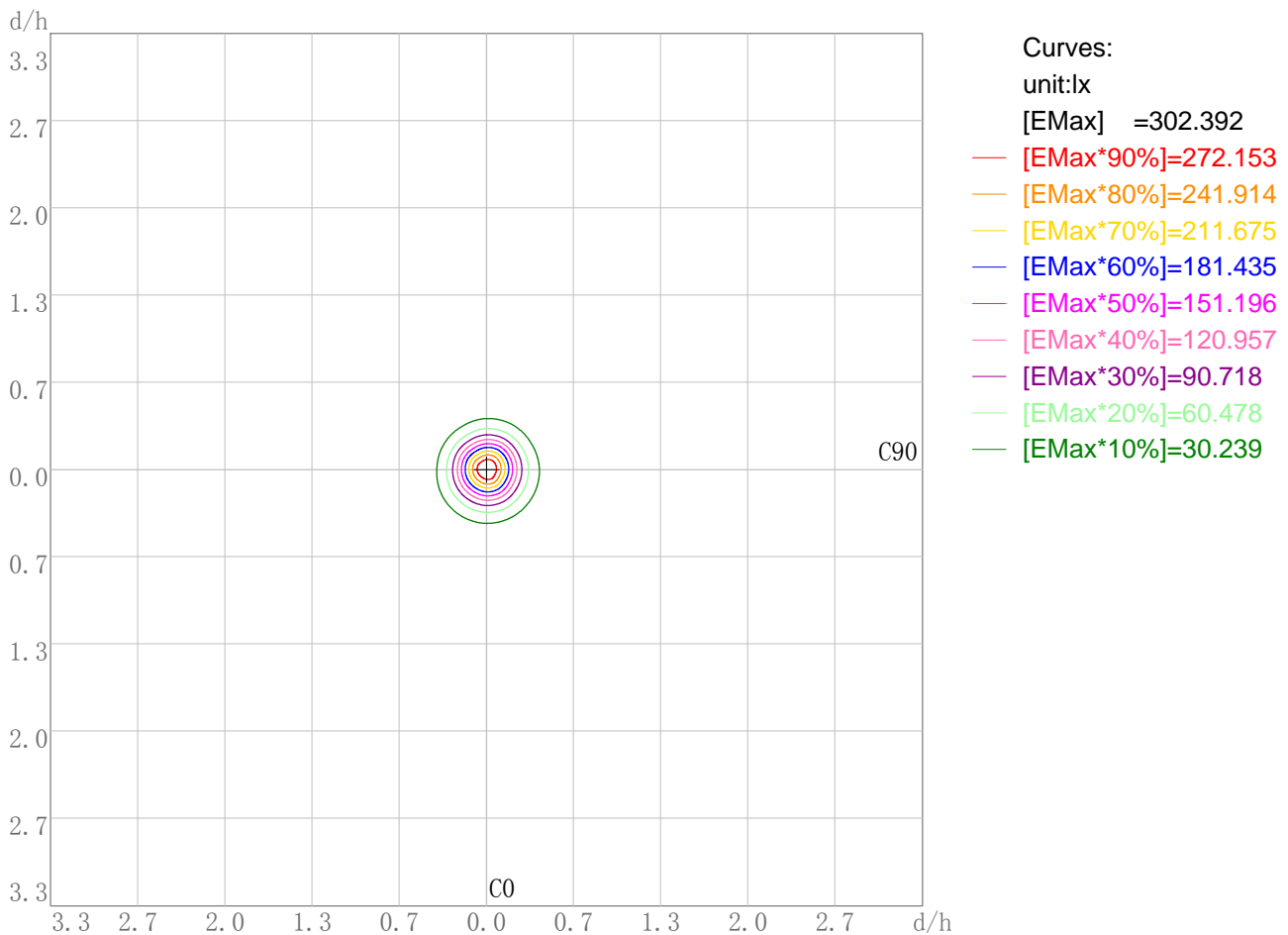
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## Plane ISO-Illuminance Diagram

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



Working Plane Luminaire Mounting Height(m): 3.00  
 Working Plane Maximum Illuminance(lx): 302.39  
 Working Plane Maximum Illuminance Position(d/h): H0.0 V0.0

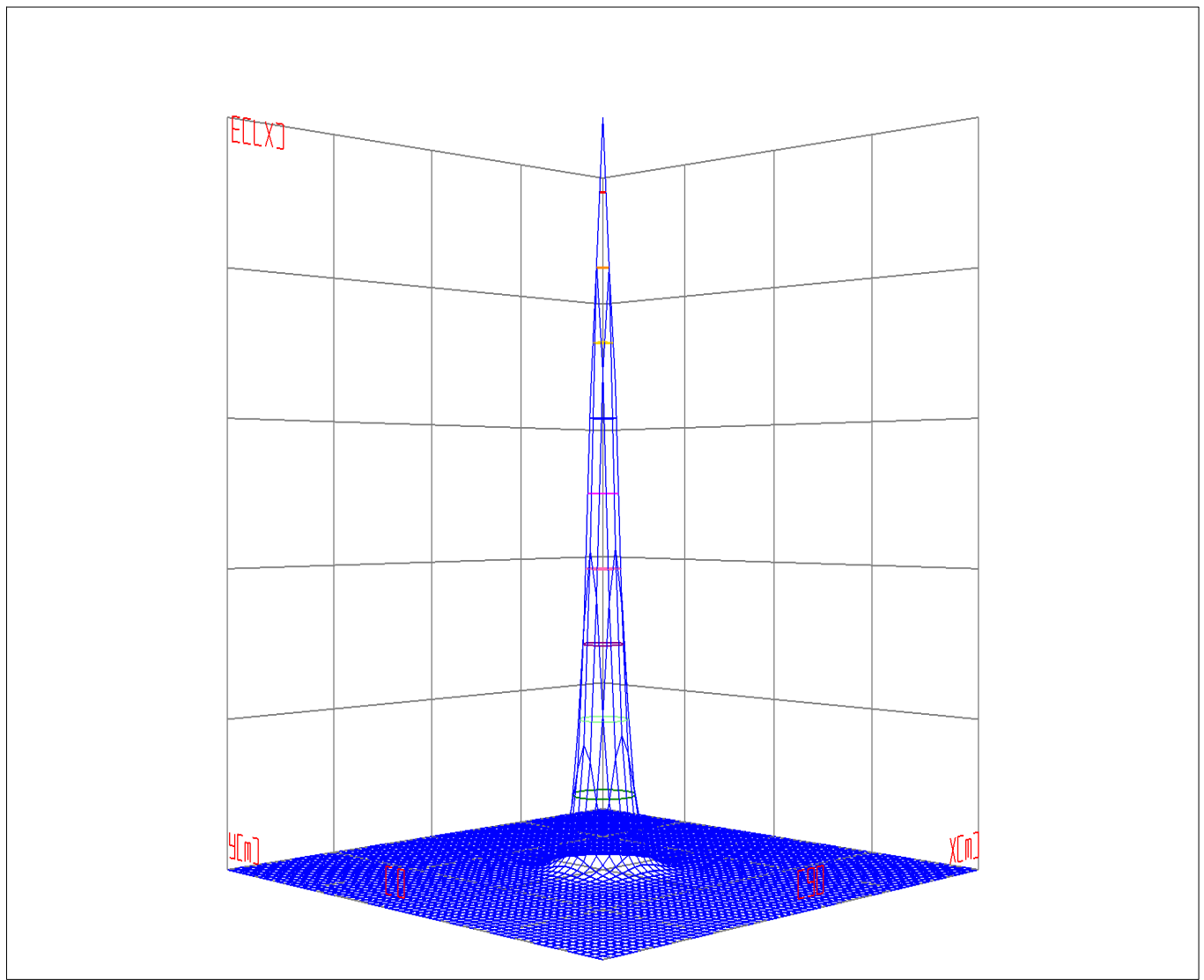
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## 3D Plane ISO Illuminance Diagram

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



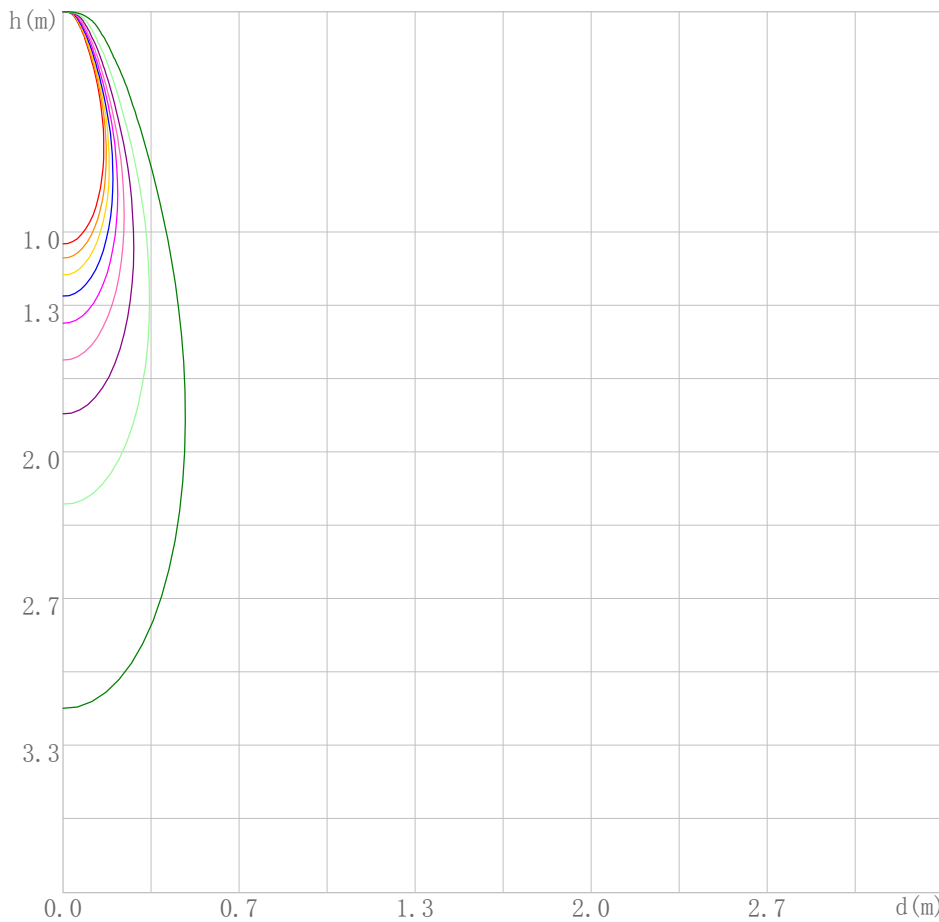
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## Space ISO Illuminance Diagram

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] =2721.530
- [EMax\*90%]=2449.377
  - [EMax\*80%]=2177.224
  - [EMax\*70%]=1905.071
  - [EMax\*60%]=1632.918
  - [EMax\*50%]=1360.765
  - [EMax\*40%]=1088.612
  - [EMax\*30%]=816.459
  - [EMax\*20%]=544.306
  - [EMax\*10%]=272.153

Space Plane Maximum Illuminance and @Angle:2721.53lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:2721.530cd,0deg

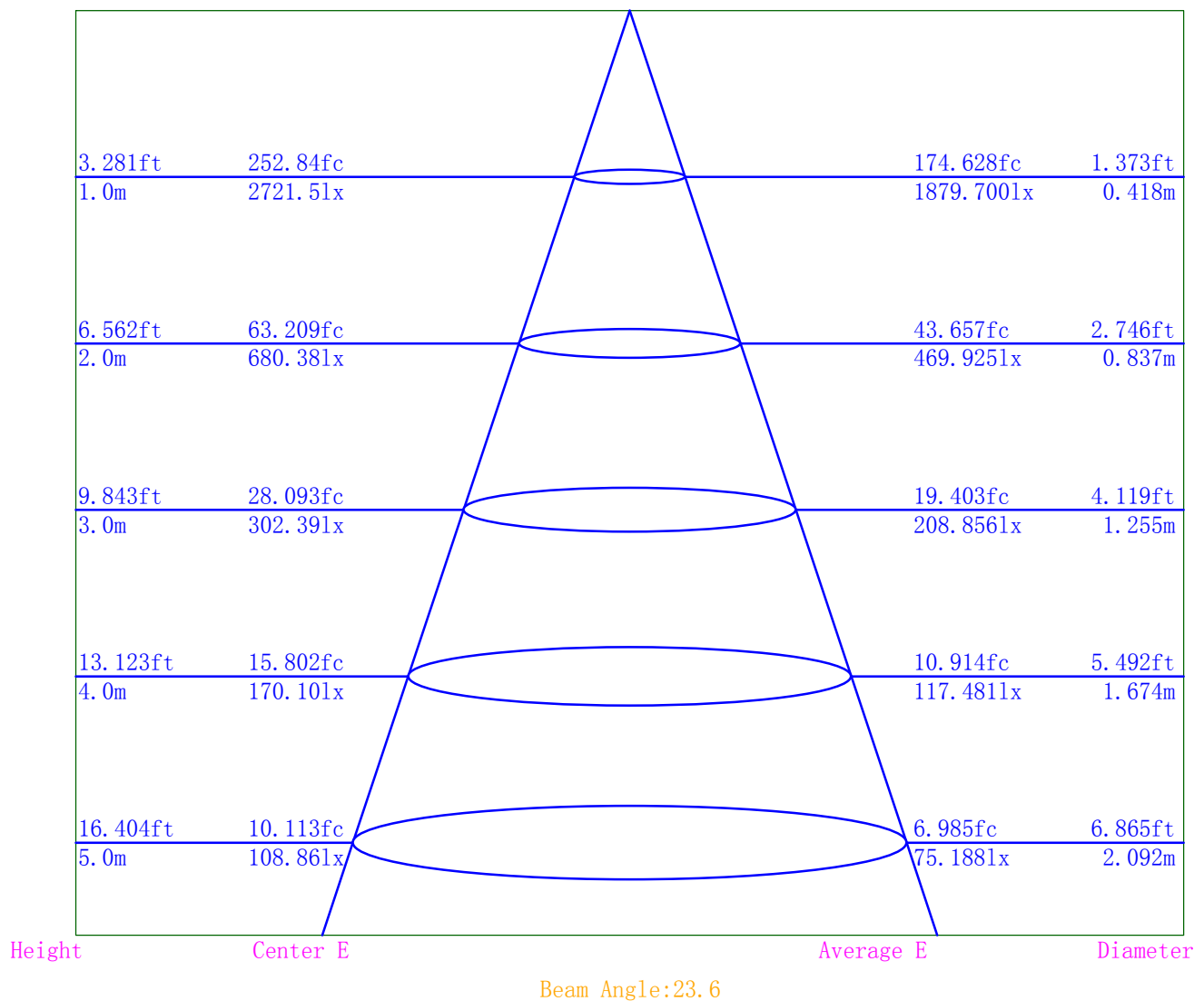
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## Illuminance-Distance Diagram

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

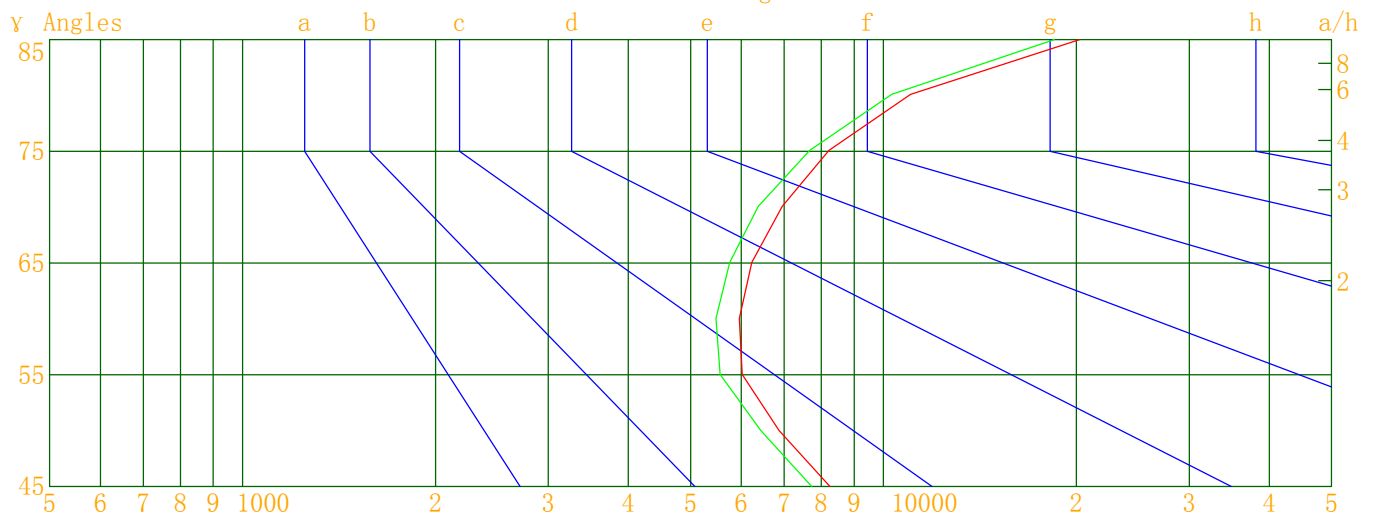
Glare Grade Table

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	8252	6872	6019	5955	6233	6947	8224	11020	20226
C90	7723	6435	5564	5480	5758	6376	7677	10295	18463

Luminance Limiting Curve



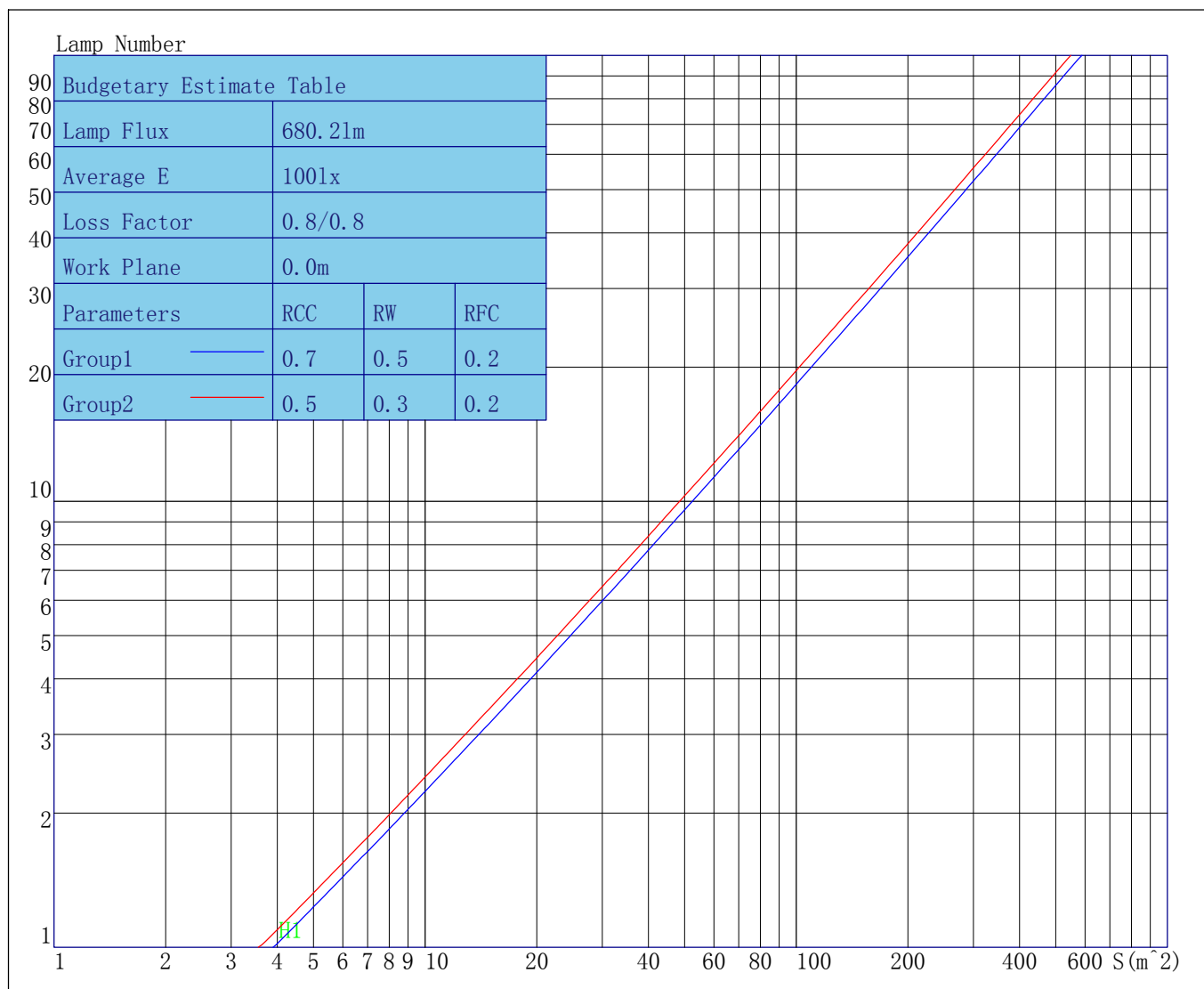
Luminous Size: Length(m)=-0.075 Width(m)=-0.075 Height(m)=0.000 Area(m<sup>2</sup>)=0.004418  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	112	109	107	105	109	107	105	103	101	100	98	97	95	94	92	91	90	88
2	107	103	99	96	105	101	97	95	96	94	92	93	90	89	89	87	86	84
3	103	97	93	90	101	96	92	88	92	89	86	89	86	84	86	84	82	80
4	99	93	88	84	97	91	87	83	88	85	82	86	83	80	83	81	79	77
5	96	88	84	80	94	87	83	79	85	81	78	83	79	77	80	78	76	74
6	92	85	80	76	90	84	79	76	82	78	75	80	76	74	78	75	73	72
7	89	81	77	73	87	81	76	73	79	75	72	77	74	71	76	73	70	69
8	86	79	74	70	85	78	73	70	76	72	69	75	71	69	73	70	68	67
9	84	76	71	68	82	75	71	68	74	70	67	73	69	67	71	68	66	65
10	81	73	69	66	80	73	68	65	72	68	65	70	67	65	69	66	64	63

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 24度 9W.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	12.3	13.2	12.8	13.7	14.2	13.2	14.1	13.7	14.5	15.0
Y=3H	14.0	14.8	14.5	15.3	15.8	14.6	15.4	15.1	15.9	16.5
Y=4H	15.1	15.9	15.7	16.4	16.9	15.6	16.4	16.1	16.8	17.4
Y=6H	16.5	17.2	17.0	17.7	18.2	16.8	17.5	17.3	18.0	18.5
Y=8H	17.3	17.9	17.8	18.5	19.0	17.5	18.1	18.0	18.6	19.2
Y=12H	18.2	18.9	18.8	19.4	20.0	18.3	18.9	18.8	19.4	20.0
X=4H Y=2H	12.6	13.4	13.1	13.9	14.4	13.6	14.4	14.1	14.9	15.4
Y=3H	14.6	15.2	15.1	15.8	16.3	15.4	16.1	16.0	16.6	17.2
Y=4H	15.9	16.5	16.5	17.0	17.6	16.6	17.2	17.2	17.7	18.3
Y=6H	17.5	18.0	18.1	18.6	19.2	18.1	18.5	18.6	19.1	19.7
Y=8H	18.5	18.9	19.1	19.5	20.1	18.9	19.3	19.5	19.9	20.5
Y=12H	19.6	20.0	20.2	20.6	21.2	19.8	20.2	20.4	20.8	21.5
X=8H Y=4H	16.3	16.8	16.9	17.3	17.9	17.1	17.6	17.7	18.1	18.8
Y=6H	18.1	18.5	18.8	19.1	19.8	18.9	19.2	19.5	19.8	20.5
Y=8H	19.3	19.6	19.9	20.2	20.9	19.9	20.2	20.5	20.8	21.5
Y=12H	20.7	20.9	21.3	21.5	22.3	21.1	21.4	21.7	22.0	22.7
X=12H Y=4H	16.4	16.8	17.0	17.4	18.0	17.2	17.6	17.8	18.2	18.8
Y=6H	18.3	18.6	19.0	19.2	19.9	19.1	19.4	19.7	20.0	20.7
Y=8H	19.6	19.8	20.2	20.4	21.2	20.2	20.5	20.9	21.1	21.8
Variations with the objverer position at spacings										
S=1.0H	0.0/-0.0					0.1/-0.1				
S=1.5H	0.1/-0.1					0.1/-0.1				
S=2.0H	0.1/-0.3					0.1/-0.2				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	5.0					4.8				

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

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 24度 9W.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	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53	2721.53
Y 1.0	2714.15	2719.76	2713.88	2710.58	2705.13	2719.78	2703.39	2689.04	2690.39	2704.16	2707.03	2705.50
Y 2.0	2676.17	2692.53	2681.76	2670.40	2661.21	2684.60	2658.35	2634.75	2638.85	2657.39	2664.15	2655.29
Y 3.0	2610.43	2635.89	2620.27	2602.48	2589.26	2621.26	2588.14	2555.43	2561.50	2581.78	2593.64	2577.83
Y 4.0	2520.04	2553.50	2534.06	2508.98	2493.42	2532.73	2493.79	2453.00	2459.92	2482.30	2497.32	2476.45
Y 5.0	2408.42	2449.11	2426.89	2394.95	2378.85	2423.45	2380.54	2333.07	2340.43	2361.83	2378.42	2354.78
Y 6.0	2277.91	2325.25	2299.90	2264.19	2246.09	2296.15	2249.88	2198.16	2201.30	2223.19	2239.50	2215.23
Y 7.0	2132.22	2184.14	2156.05	2119.03	2098.64	2154.44	2106.75	2050.51	2051.03	2071.99	2088.63	2062.83
Y 8.0	1974.40	2031.12	2000.76	1963.59	1943.48	2002.65	1956.16	1895.90	1894.02	1911.23	1928.74	1902.08
Y 9.0	1810.52	1869.23	1837.44	1802.53	1783.35	1844.23	1800.57	1738.03	1733.28	1744.55	1761.80	1735.51
Y 10.0	1645.15	1703.49	1673.06	1640.04	1625.06	1684.36	1643.01	1581.44	1571.06	1575.53	1592.61	1566.53
Y 11.0	1482.78	1538.24	1509.98	1482.09	1470.18	1527.71	1488.43	1429.77	1414.44	1410.69	1427.33	1403.77
Y 12.0	1323.73	1377.73	1350.65	1329.73	1321.81	1376.02	1341.69	1283.35	1264.37	1252.61	1267.25	1246.91
Y 13.0	1171.15	1223.39	1197.98	1184.84	1178.94	1230.45	1201.74	1146.38	1122.51	1103.48	1116.42	1098.37
Y 14.0	1027.21	1077.91	1054.61	1049.33	1045.35	1093.34	1069.91	1017.15	990.64	964.21	975.86	959.94
Y 15.0	894.87	940.48	922.30	922.07	921.29	964.74	946.70	897.46	868.66	836.23	846.03	832.68
Y 16.0	775.36	816.18	801.47	806.93	809.41	846.85	833.25	788.46	757.03	720.66	727.90	717.04
Y 17.0	668.46	705.04	693.01	704.61	708.95	741.16	730.79	691.24	657.51	618.14	622.67	614.51
Y 18.0	574.13	605.23	597.06	613.38	619.01	646.98	638.59	603.69	568.48	527.70	530.76	524.83
Y 19.0	490.41	517.78	512.06	532.33	539.21	562.26	557.04	525.55	490.87	449.02	450.49	447.06
Y 20.0	417.92	441.87	437.40	460.98	467.97	486.74	483.91	455.59	421.88	380.09	380.95	379.14
Y 21.0	355.52	375.08	372.70	397.52	405.24	419.52	418.67	392.98	360.77	320.87	321.20	320.67
Y 22.0	302.96	319.08	318.32	342.39	351.04	360.51	360.13	338.47	307.65	270.75	270.95	271.63
Y 23.0	259.10	272.35	272.61	296.23	304.79	310.75	309.92	292.16	262.87	229.60	228.51	231.06
Y 24.0	222.35	233.54	234.16	256.92	265.05	267.87	267.00	252.43	224.78	195.14	193.64	196.80
Y 25.0	191.50	201.01	201.89	223.50	230.58	231.10	229.87	218.29	192.71	166.99	164.54	168.33
Y 26.0	165.78	174.05	175.18	194.68	200.29	199.78	197.42	189.13	165.80	143.93	140.83	144.64
Y 27.0	144.51	151.45	153.35	169.89	174.12	172.17	169.10	163.28	143.37	124.50	121.13	124.85
Y 28.0	127.10	132.73	135.13	148.99	151.81	149.08	144.89	141.43	123.92	108.12	104.63	108.24
Y 29.0	112.44	117.00	119.75	130.55	133.14	129.78	124.22	122.51	107.66	94.40	90.76	94.40
Y 30.0	99.68	103.28	106.09	115.32	117.08	113.40	106.78	106.06	92.98	82.35	78.89	82.32
Y 31.0	88.53	91.44	94.10	101.43	102.95	99.40	91.94	92.02	80.29	71.98	68.67	72.12
Y 32.0	79.13	81.17	83.44	89.83	91.13	87.80	79.45	80.20	69.37	63.25	60.19	63.42
Y 33.0	71.23	72.38	74.31	79.73	81.18	77.78	68.98	69.84	59.90	55.61	53.01	56.15
Y 34.0	64.69	65.07	66.28	71.18	72.86	69.38	59.86	60.69	51.89	49.36	46.91	49.80
Y 35.0	58.99	58.95	59.67	63.62	65.51	62.17	51.96	52.74	45.13	43.79	41.54	44.44
Y 36.0	54.01	53.49	54.21	56.92	58.93	55.69	45.16	45.76	39.54	38.67	36.85	39.66
Y 37.0	49.27	48.46	49.33	50.98	52.94	49.99	39.11	39.58	34.89	34.22	32.51	35.31
Y 38.0	44.97	44.04	45.02	45.65	47.68	45.00	33.80	34.49	30.71	30.45	28.81	31.40
Y 39.0	41.08	39.91	41.19	41.03	42.91	40.36	28.96	29.59	26.68	27.17	25.58	28.05
Y 40.0	37.72	36.60	37.78	37.03	38.29	36.16	24.53	25.29	22.93	23.99	22.42	24.76
Y 41.0	34.41	33.23	34.45	33.21	34.46	32.35	20.96	21.95	20.03	21.40	19.75	22.05
Y 42.0	31.72	30.52	31.62	30.13	31.42	29.48	18.35	19.58	17.67	19.28	17.60	19.72
Y 43.0	29.47	28.30	29.43	27.84	29.08	27.28	16.51	17.74	15.88	17.53	15.80	17.83
Y 44.0	27.58	26.34	27.49	25.83	27.35	25.44	14.99	16.31	14.47	15.94	14.34	16.20
Y 45.0	25.78	24.64	25.82	24.13	25.64	23.92	13.73	14.99	13.22	14.71	13.02	14.88
Y 46.0	24.28	23.16	24.26	22.68	24.29	22.49	12.65	13.97	12.14	13.53	11.93	13.71

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 24度 9W.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	22.91	21.78	22.87	21.50	23.02	21.27	11.75	12.87	11.19	12.52	10.96	12.68
Y 48.0	21.68	20.64	21.56	20.35	21.86	20.11	10.87	12.01	10.33	11.56	10.19	11.90
Y 49.0	20.58	19.45	20.43	19.33	20.76	19.04	10.23	11.24	9.69	10.76	9.51	11.11
Y 50.0	19.52	18.33	19.47	18.27	19.84	18.15	9.51	10.65	9.01	10.15	8.94	10.47
Y 51.0	18.67	17.48	18.44	17.36	18.95	17.34	8.93	10.14	8.55	9.59	8.35	9.94
Y 52.0	17.86	16.62	17.66	16.51	18.18	16.57	8.45	9.64	8.19	9.08	7.98	9.36
Y 53.0	16.97	15.89	16.92	15.88	17.40	15.82	7.87	9.08	7.72	8.69	7.56	8.90
Y 54.0	16.20	15.21	16.22	15.17	16.46	14.90	7.34	8.21	6.95	8.03	7.13	8.20
Y 55.0	15.25	14.27	15.16	14.10	15.30	14.10	6.93	8.05	6.66	7.72	6.72	7.64
Y 56.0	14.65	13.73	14.62	13.70	14.88	13.64	6.76	7.78	6.51	7.58	6.57	7.39
Y 57.0	14.27	13.32	14.09	13.28	14.39	13.24	6.59	7.58	6.37	7.24	6.41	7.17
Y 58.0	13.89	12.95	13.71	12.80	14.01	12.85	6.54	7.41	6.27	7.16	6.30	7.08
Y 59.0	13.53	12.62	13.37	12.52	13.65	12.59	6.48	7.39	6.27	7.05	6.27	7.02
Y 60.0	13.15	12.33	12.97	12.10	13.23	12.29	6.49	7.26	6.17	6.98	6.21	6.83
Y 61.0	12.87	11.98	12.70	11.88	13.00	11.98	6.34	7.09	5.97	6.91	6.15	6.74
Y 62.0	12.47	11.68	12.36	11.63	12.61	11.68	6.26	7.01	6.01	6.80	6.11	6.65
Y 63.0	12.19	11.49	12.06	11.28	12.38	11.37	6.19	6.91	5.88	6.73	6.05	6.63
Y 64.0	11.94	11.19	11.77	11.07	12.10	11.06	6.08	6.91	5.87	6.61	6.04	6.57
Y 65.0	11.64	10.95	11.49	10.75	11.76	10.72	6.03	6.84	5.84	6.58	5.90	6.39
Y 66.0	11.34	10.67	11.21	10.54	11.52	10.51	6.00	6.71	5.72	6.40	5.79	6.36
Y 67.0	11.15	10.30	10.91	10.28	11.16	10.25	5.93	6.56	5.63	6.34	5.76	6.36
Y 68.0	10.93	10.19	10.72	10.12	10.91	9.87	5.83	6.63	5.56	6.28	5.69	6.20
Y 69.0	10.70	9.89	10.45	9.82	10.64	9.73	5.70	6.51	5.44	6.16	5.69	6.15
Y 70.0	10.50	9.74	10.14	9.63	10.44	9.55	5.63	6.37	5.36	5.96	5.58	6.08
Y 71.0	10.26	9.53	9.94	9.53	10.22	9.33	5.65	6.19	5.42	6.00	5.45	5.98
Y 72.0	10.03	9.37	9.75	9.31	9.98	9.19	5.50	6.14	5.27	5.86	5.32	5.84
Y 73.0	9.77	9.19	9.58	9.10	9.70	8.98	5.41	6.07	5.19	5.88	5.22	5.77
Y 74.0	9.53	8.99	9.39	8.87	9.54	8.72	5.30	5.92	5.11	5.68	5.17	5.65
Y 75.0	9.40	8.76	9.23	8.78	9.35	8.53	5.19	5.84	5.06	5.63	5.12	5.55
Y 76.0	9.13	8.55	8.89	8.52	9.11	8.39	5.14	5.68	4.95	5.54	5.03	5.51
Y 77.0	8.95	8.31	8.80	8.39	9.00	8.23	5.09	5.58	4.90	5.40	4.96	5.45
Y 78.0	8.80	8.21	8.60	8.19	8.76	7.97	5.02	5.59	4.88	5.42	4.89	5.44
Y 79.0	8.58	7.96	8.39	8.10	8.55	7.71	4.93	5.52	4.72	5.35	4.78	5.31
Y 80.0	8.45	7.87	8.22	7.90	8.40	7.75	4.94	5.45	4.76	5.23	4.76	5.23
Y 81.0	8.34	7.80	8.11	7.78	8.32	7.48	4.91	5.34	4.65	5.14	4.68	5.22
Y 82.0	8.15	7.70	7.89	7.68	8.09	7.35	4.82	5.22	4.67	5.18	4.66	5.10
Y 83.0	8.07	7.44	7.74	7.43	7.89	7.24	4.90	5.20	4.61	5.14	4.69	5.13
Y 84.0	7.86	7.36	7.59	7.25	7.72	7.14	4.81	5.16	4.58	4.99	4.67	5.08
Y 85.0	7.79	7.23	7.39	7.11	7.55	7.02	4.68	5.18	4.57	5.01	4.68	5.01
Y 86.0	7.64	7.13	7.23	7.02	7.45	6.81	4.74	5.08	4.47	4.97	4.55	4.96
Y 87.0	7.54	7.03	7.19	6.90	7.36	6.74	4.68	5.07	4.48	4.96	4.51	4.91
Y 88.0	7.33	6.95	7.06	6.75	7.33	6.63	4.68	5.04	4.49	4.93	4.55	4.85
Y 89.0	7.27	6.86	6.92	6.65	7.21	6.51	4.73	5.02	4.37	4.87	4.53	4.88
Y 90.0	7.23	6.74	6.82	6.56	7.14	6.46	4.67	4.90	4.40	4.80	4.52	4.84
Y 91.0	6.98	6.66	6.74	6.47	6.99	6.37	4.57	4.90	4.42	4.81	4.48	4.76
Y 92.0	6.97	6.55	6.69	6.37	6.85	6.30	4.63	4.88	4.41	4.86	4.50	4.83
Y 93.0	6.79	6.47	6.52	6.37	6.75	6.22	4.60	4.98	4.41	4.93	4.48	4.87



# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 24度 9W.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	6.76	6.41	6.49	6.34	6.68	6.09	4.64	4.99	4.35	4.92	4.42	4.82
Y 95.0	6.72	6.37	6.44	6.19	6.65	6.06	4.59	5.00	4.38	4.78	4.53	4.78
Y 96.0	6.65	6.25	6.31	6.23	6.59	5.99	4.58	4.84	4.40	4.80	4.52	4.84
Y 97.0	6.50	6.24	6.32	6.14	6.51	5.85	4.70	4.82	4.45	4.84	4.51	4.78
Y 98.0	6.46	6.22	6.24	6.15	6.33	5.90	4.62	4.87	4.39	4.78	4.46	4.81
Y 99.0	6.40	6.18	6.14	6.05	6.30	5.95	4.64	4.99	4.45	4.79	4.61	4.75
Y 100.0	6.35	6.07	6.14	6.01	6.24	5.82	4.57	4.99	4.38	4.73	4.53	4.70
Y 101.0	6.39	6.00	6.17	5.94	6.27	5.71	4.47	4.92	4.40	4.63	4.50	4.57
Y 102.0	6.37	5.97	6.10	5.82	6.23	5.85	4.58	4.86	4.41	4.70	4.49	4.70
Y 103.0	6.30	5.96	6.05	5.89	6.24	5.78	4.64	4.87	4.38	4.73	4.46	4.61
Y 104.0	6.25	5.91	6.03	5.84	6.14	5.70	4.64	4.92	4.34	4.75	4.49	4.64
Y 105.0	6.38	5.95	6.05	5.92	6.18	5.74	4.61	4.79	4.38	4.80	4.52	4.65
Y 106.0	6.27	6.02	6.07	5.90	6.17	5.67	4.62	4.89	4.41	4.79	4.49	4.74
Y 107.0	6.26	6.07	5.99	5.95	6.09	5.63	4.59	4.84	4.48	4.86	4.56	4.70
Y 108.0	6.32	5.95	6.07	5.86	6.01	5.70	4.65	4.81	4.50	4.88	4.59	4.70
Y 109.0	6.36	6.02	6.10	5.80	6.09	5.69	4.62	4.91	4.49	4.89	4.59	4.64
Y 110.0	6.33	5.94	6.07	5.78	6.06	5.71	4.80	4.81	4.57	4.90	4.60	4.74
Y 111.0	6.42	6.07	6.09	5.91	5.99	5.77	4.79	4.93	4.61	4.95	4.61	4.87
Y 112.0	6.38	6.09	6.11	5.85	6.05	5.81	4.76	4.98	4.60	4.93	4.63	4.85
Y 113.0	6.40	6.03	6.11	5.91	6.11	5.83	4.80	5.00	4.69	4.87	4.70	4.93
Y 114.0	6.44	6.16	6.08	5.96	6.19	5.82	4.84	5.09	4.74	5.03	4.78	4.97
Y 115.0	6.54	6.16	6.20	5.96	6.20	5.90	4.91	5.16	4.79	5.10	4.90	5.09
Y 116.0	6.41	6.22	6.13	5.98	6.15	5.98	4.99	5.24	4.80	5.15	4.98	5.14
Y 117.0	6.51	6.29	6.28	6.04	6.18	6.07	5.10	5.25	4.94	5.23	5.03	5.15
Y 118.0	6.59	6.29	6.22	6.14	6.25	6.07	5.20	5.36	5.01	5.35	5.11	5.29
Y 119.0	6.55	6.34	6.39	6.15	6.24	6.14	5.33	5.48	5.26	5.45	5.24	5.38
Y 120.0	6.79	6.36	6.46	6.20	6.35	6.20	5.36	5.57	5.31	5.49	5.49	5.50
Y 121.0	6.70	6.40	6.46	6.28	6.38	6.17	5.55	5.70	5.47	5.65	5.59	5.75
Y 122.0	6.83	6.44	6.51	6.37	6.43	6.28	5.71	5.83	5.57	5.80	5.78	5.85
Y 123.0	6.95	6.52	6.58	6.34	6.49	6.34	5.88	5.96	5.88	5.94	6.01	6.07
Y 124.0	6.95	6.64	6.64	6.50	6.66	6.49	6.03	6.15	5.99	6.16	6.10	6.16
Y 125.0	7.08	6.74	6.78	6.66	6.75	6.56	6.27	6.23	6.05	6.32	6.31	6.35
Y 126.0	7.22	6.88	6.84	6.74	6.92	6.65	6.47	6.50	6.30	6.59	6.47	6.59
Y 127.0	7.34	6.99	7.02	6.81	6.99	6.74	6.75	6.75	6.45	6.80	6.65	6.82
Y 128.0	7.49	7.20	7.18	6.97	7.18	6.89	6.93	6.89	6.71	6.88	6.92	7.05
Y 129.0	7.56	7.34	7.32	7.04	7.30	7.01	7.22	7.14	6.98	7.14	7.10	7.24
Y 130.0	7.68	7.46	7.41	7.13	7.42	7.30	7.54	7.33	7.08	7.40	7.28	7.42
Y 131.0	7.94	7.59	7.66	7.47	7.59	7.42	7.75	7.56	7.33	7.64	7.62	7.63
Y 132.0	8.04	7.82	7.79	7.54	7.70	7.48	7.96	7.93	7.62	7.88	7.78	7.91
Y 133.0	8.21	7.98	7.88	7.70	7.97	7.64	8.24	8.03	7.79	8.04	8.07	8.11
Y 134.0	8.38	8.14	8.14	8.00	8.16	7.93	8.37	8.26	8.07	8.35	8.26	8.36
Y 135.0	8.66	8.42	8.37	8.16	8.26	8.03	8.62	8.50	8.22	8.53	8.49	8.62
Y 136.0	8.86	8.60	8.49	8.32	8.45	8.31	8.80	8.71	8.48	8.70	8.72	8.75
Y 137.0	8.97	8.86	8.74	8.56	8.60	8.44	9.05	8.90	8.64	8.89	8.86	8.91
Y 138.0	9.23	8.94	8.91	8.71	8.91	8.70	9.24	9.04	8.83	9.12	9.07	9.11
Y 139.0	9.38	9.15	9.07	8.90	9.15	8.80	9.39	9.28	8.96	9.39	9.28	9.28
Y 140.0	9.58	9.37	9.24	9.14	9.28	9.02	9.46	9.46	9.17	9.48	9.36	9.52

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 24度 9W.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	9.67	9.44	9.41	9.24	9.44	9.19	9.68	9.61	9.35	9.68	9.55	9.65
Y 142.0	9.88	9.73	9.51	9.46	9.56	9.47	9.81	9.78	9.43	9.79	9.72	9.75
Y 143.0	9.96	9.78	9.68	9.53	9.76	9.56	9.93	9.88	9.57	9.82	9.75	9.94
Y 144.0	10.08	9.92	9.78	9.70	9.85	9.71	10.02	9.94	9.72	9.84	9.97	10.15
Y 145.0	10.23	10.10	9.90	9.85	10.00	9.86	10.21	10.01	9.82	9.93	10.10	10.20
Y 146.0	10.39	10.27	10.01	9.95	10.16	9.90	10.29	10.18	10.01	10.00	10.16	10.27
Y 147.0	10.43	10.43	10.06	10.06	10.30	9.99	10.44	10.30	9.97	10.00	10.26	10.31
Y 148.0	10.48	10.42	10.16	10.11	10.32	10.11	10.57	10.41	10.10	10.13	10.26	10.35
Y 149.0	10.56	10.52	10.20	10.12	10.39	10.25	10.62	10.59	10.17	10.17	10.36	10.50
Y 150.0	10.60	10.62	10.27	10.18	10.41	10.23	10.61	10.63	10.24	10.25	10.34	10.58
Y 151.0	10.63	10.57	10.29	10.19	10.54	10.36	10.76	10.63	10.32	10.25	10.38	10.53
Y 152.0	10.69	10.65	10.40	10.24	10.49	10.49	10.77	10.72	10.27	10.29	10.52	10.55
Y 153.0	10.70	10.76	10.48	10.31	10.58	10.38	10.87	10.73	10.35	10.44	10.54	10.68
Y 154.0	10.75	10.82	10.54	10.28	10.57	10.42	10.91	10.89	10.42	10.38	10.56	10.61
Y 155.0	10.77	10.83	10.58	10.24	10.63	10.49	10.95	10.88	10.54	10.40	10.51	10.66
Y 156.0	10.77	10.73	10.64	10.24	10.72	10.47	11.05	10.94	10.63	10.30	10.56	10.66
Y 157.0	10.76	10.73	10.56	10.26	10.59	10.53	10.99	10.89	10.55	10.40	10.46	10.70
Y 158.0	10.74	10.71	10.48	10.24	10.66	10.55	11.06	10.92	10.53	10.30	10.44	10.74
Y 159.0	10.80	10.72	10.48	10.22	10.58	10.57	11.02	10.83	10.59	10.39	10.44	10.67
Y 160.0	10.77	10.59	10.51	10.25	10.65	10.63	11.05	10.86	10.55	10.43	10.46	10.65
Y 161.0	10.62	10.56	10.47	10.32	10.60	10.52	11.03	10.72	10.44	10.35	10.32	10.59
Y 162.0	10.70	10.54	10.35	10.40	10.56	10.43	11.05	10.66	10.42	10.35	10.31	10.49
Y 163.0	10.68	10.61	10.45	10.14	10.56	10.48	10.92	10.62	10.47	10.35	10.33	10.49
Y 164.0	10.71	10.50	10.35	10.19	10.56	10.51	10.92	10.56	10.44	10.25	10.20	10.50
Y 165.0	10.58	10.48	10.31	10.21	10.35	10.43	10.86	10.61	10.38	10.36	10.19	10.40
Y 166.0	10.60	10.30	10.34	10.23	10.43	10.37	10.89	10.58	10.21	10.30	10.10	10.33
Y 167.0	10.45	10.23	10.15	10.11	10.37	10.14	10.79	10.39	10.27	10.14	10.03	10.21
Y 168.0	10.36	10.24	10.10	10.08	10.24	10.10	10.74	10.35	10.13	10.09	9.98	10.19
Y 169.0	10.28	10.13	9.96	10.04	10.27	10.05	10.70	10.27	10.12	10.13	9.90	10.11
Y 170.0	10.26	10.14	9.92	9.90	10.12	9.93	10.59	10.13	9.96	10.09	9.85	9.96
Y 171.0	10.17	9.98	9.76	9.83	10.06	9.84	10.37	10.08	9.88	9.94	9.78	9.89
Y 172.0	10.13	9.87	9.73	9.80	9.90	9.69	10.42	9.94	9.81	9.76	9.64	9.72
Y 173.0	10.07	9.83	9.57	9.74	9.78	9.64	10.29	9.94	9.77	9.77	9.61	9.64
Y 174.0	9.97	9.79	9.59	9.62	9.71	9.50	10.14	9.78	9.63	9.71	9.45	9.66
Y 175.0	9.80	9.78	9.55	9.63	9.65	9.41	10.06	9.73	9.58	9.73	9.52	9.52
Y 176.0	9.85	9.62	9.51	9.55	9.67	9.40	9.98	9.76	9.60	9.71	9.51	9.48
Y 177.0	9.81	9.53	9.47	9.51	9.62	9.38	10.01	9.60	9.49	9.66	9.42	9.40
Y 178.0	9.76	9.52	9.51	9.63	9.57	9.36	9.90	9.54	9.53	9.62	9.39	9.41
Y 179.0	9.83	9.61	9.61	9.62	9.57	9.32	9.85	9.60	9.59	9.70	9.41	9.43
Y 180.0	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63