



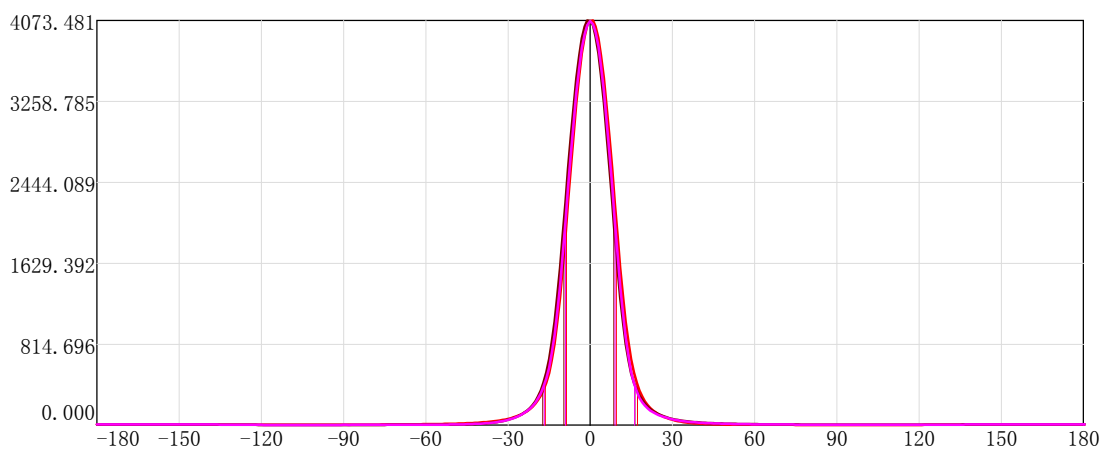
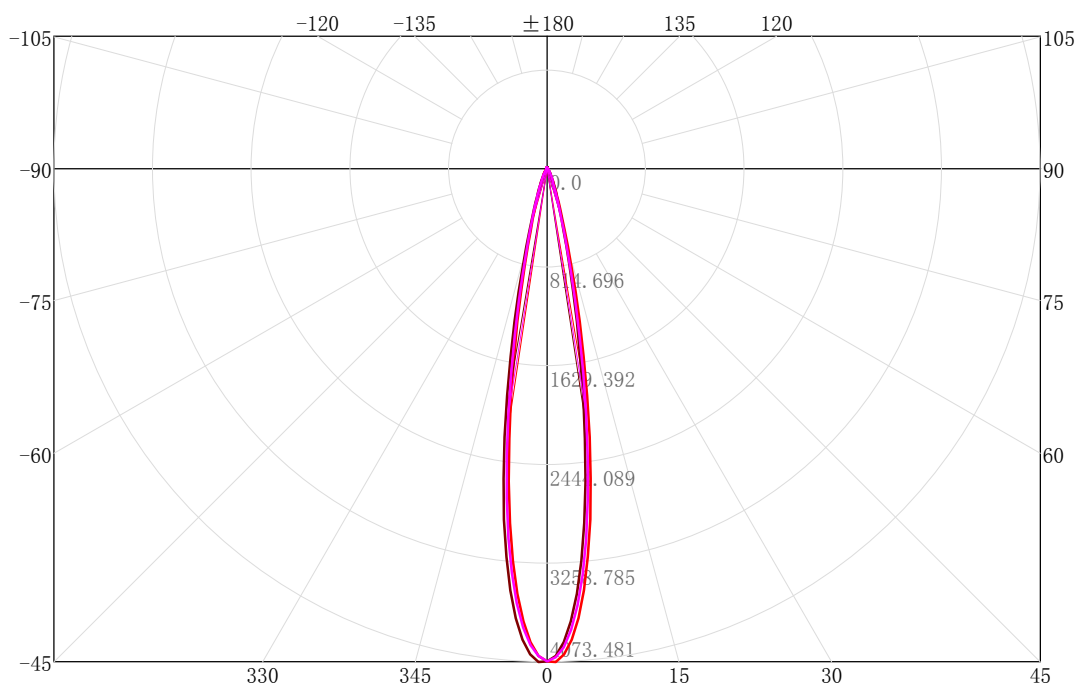
# IES Indoor Report

Photometric Filename: 6 S R W O D P S 3000K 0.15度 9W.IES

## 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
—	C180.0_360.0 :	18.2	33.6	
—	C0.0_180.0 :	18.2	33.6	
—	C90.0_270.0 :	18.1	33.0	

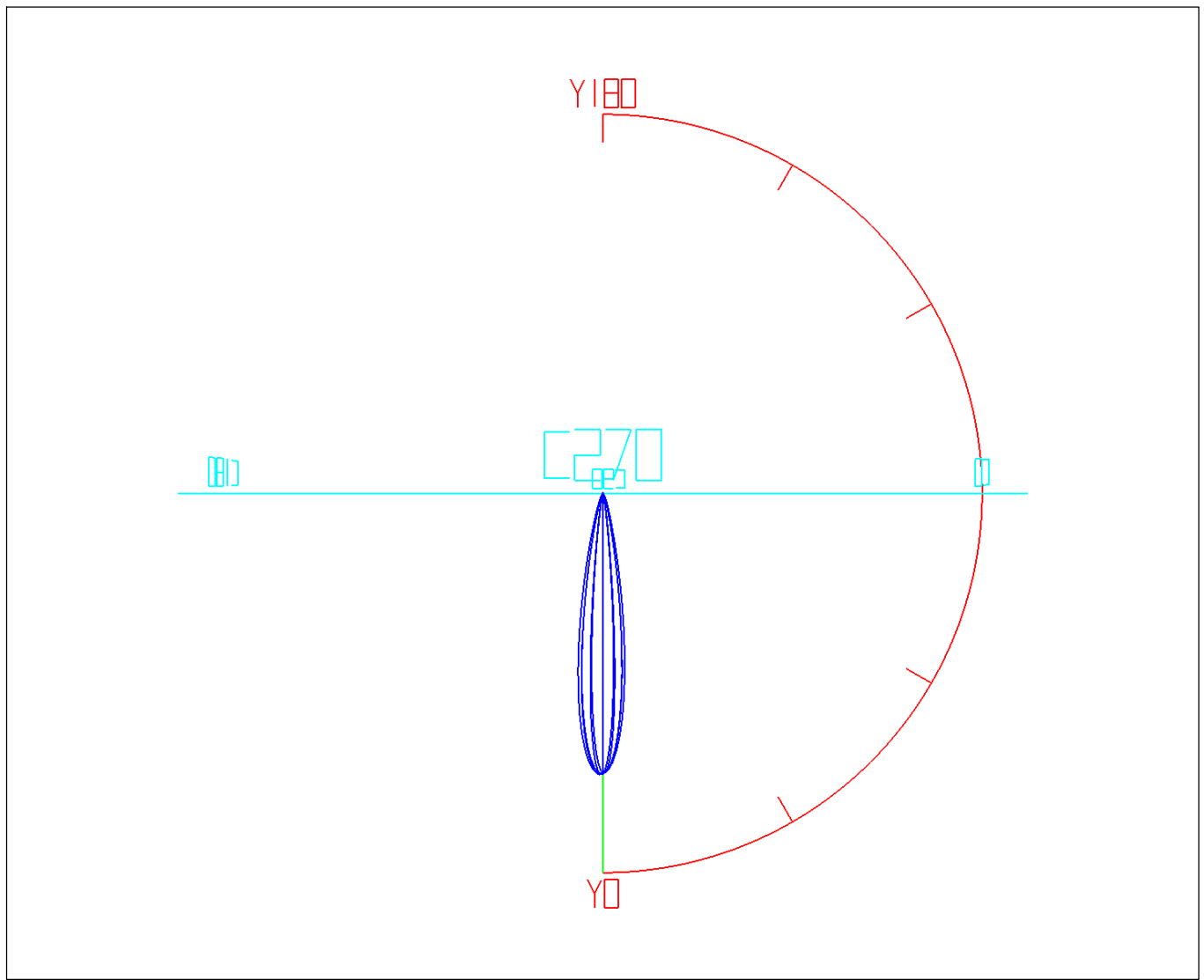
# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 9W.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	3.88	3.88	0.64	0.64	47.0-48.0	1.10	533.56	0.18	87.93
1.0-2.0	11.47	15.35	1.89	2.53	48.0-49.0	1.05	534.61	0.17	88.10
2.0-3.0	18.57	33.92	3.06	5.59	49.0-50.0	1.02	535.63	0.17	88.27
3.0-4.0	24.84	58.76	4.09	9.68	50.0-51.0	0.99	536.62	0.16	88.43
4.0-5.0	30.02	88.78	4.95	14.63	51.0-52.0	0.97	537.58	0.16	88.59
5.0-6.0	33.86	122.64	5.58	20.21	52.0-53.0	0.94	538.53	0.16	88.75
6.0-7.0	36.19	158.83	5.96	26.17	53.0-54.0	0.92	539.45	0.15	88.90
7.0-8.0	36.97	195.80	6.09	32.27	54.0-55.0	0.89	540.34	0.15	89.05
8.0-9.0	36.25	232.05	5.97	38.24	55.0-56.0	0.87	541.21	0.14	89.19
9.0-10.0	34.26	266.31	5.65	43.89	56.0-57.0	0.86	542.07	0.14	89.33
10.0-11.0	31.37	297.68	5.17	49.06	57.0-58.0	0.85	542.92	0.14	89.47
11.0-12.0	27.96	325.64	4.61	53.66	58.0-59.0	0.84	543.76	0.14	89.61
12.0-13.0	24.40	350.04	4.02	57.68	59.0-60.0	0.83	544.59	0.14	89.75
13.0-14.0	20.97	371.00	3.46	61.14	60.0-61.0	0.83	545.42	0.14	89.88
14.0-15.0	17.87	388.87	2.94	64.08	61.0-62.0	0.82	546.24	0.14	90.02
15.0-16.0	15.22	404.09	2.51	66.59	62.0-63.0	0.81	547.06	0.13	90.15
16.0-17.0	13.07	417.16	2.15	68.75	63.0-64.0	0.81	547.86	0.13	90.29
17.0-18.0	11.35	428.51	1.87	70.62	64.0-65.0	0.80	548.66	0.13	90.42
18.0-19.0	9.97	438.48	1.64	72.26	65.0-66.0	0.79	549.45	0.13	90.55
19.0-20.0	8.84	447.32	1.46	73.72	66.0-67.0	0.78	550.23	0.13	90.68
20.0-21.0	7.88	455.20	1.30	75.02	67.0-68.0	0.77	551.00	0.13	90.80
21.0-22.0	7.07	462.27	1.17	76.18	68.0-69.0	0.76	551.76	0.13	90.93
22.0-23.0	6.38	468.65	1.05	77.23	69.0-70.0	0.75	552.52	0.12	91.05
23.0-24.0	5.77	474.43	0.95	78.18	70.0-71.0	0.75	553.26	0.12	91.18
24.0-25.0	5.25	479.68	0.87	79.05	71.0-72.0	0.74	554.00	0.12	91.30
25.0-26.0	4.80	484.48	0.79	79.84	72.0-73.0	0.73	554.73	0.12	91.42
26.0-27.0	4.40	488.88	0.73	80.57	73.0-74.0	0.72	555.44	0.12	91.53
27.0-28.0	4.05	492.93	0.67	81.23	74.0-75.0	0.71	556.15	0.12	91.65
28.0-29.0	3.72	496.66	0.61	81.85	75.0-76.0	0.70	556.84	0.11	91.77
29.0-30.0	3.43	500.08	0.56	82.41	76.0-77.0	0.68	557.53	0.11	91.88
30.0-31.0	3.15	503.23	0.52	82.93	77.0-78.0	0.67	558.20	0.11	91.99
31.0-32.0	2.89	506.12	0.48	83.41	78.0-79.0	0.67	558.87	0.11	92.10
32.0-33.0	2.67	508.80	0.44	83.85	79.0-80.0	0.66	559.52	0.11	92.21
33.0-34.0	2.48	511.27	0.41	84.26	80.0-81.0	0.65	560.17	0.11	92.31
34.0-35.0	2.30	513.57	0.38	84.63	81.0-82.0	0.64	560.81	0.11	92.42
35.0-36.0	2.15	515.72	0.35	84.99	82.0-83.0	0.63	561.44	0.10	92.52
36.0-37.0	2.00	517.72	0.33	85.32	83.0-84.0	0.62	562.06	0.10	92.63
37.0-38.0	1.87	519.59	0.31	85.63	84.0-85.0	0.62	562.68	0.10	92.73
38.0-39.0	1.75	521.33	0.29	85.91	85.0-86.0	0.61	563.29	0.10	92.83
39.0-40.0	1.65	522.98	0.27	86.19	86.0-87.0	0.60	563.89	0.10	92.93
40.0-41.0	1.56	524.54	0.26	86.44	87.0-88.0	0.59	564.48	0.10	93.02
41.0-42.0	1.48	526.02	0.24	86.69	88.0-89.0	0.59	565.07	0.10	93.12
42.0-43.0	1.42	527.44	0.23	86.92	89.0-90.0	0.58	565.65	0.10	93.22
43.0-44.0	1.35	528.79	0.22	87.14	90.0-91.0	0.58	566.23	0.10	93.31
44.0-45.0	1.29	530.08	0.21	87.36	91.0-92.0	0.57	566.80	0.09	93.41
45.0-46.0	1.23	531.31	0.20	87.56	92.0-93.0	0.57	567.36	0.09	93.50
46.0-47.0	1.16	532.47	0.19	87.75	93.0-94.0	0.56	567.92	0.09	93.59

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 9W.IES

## Zonal Flux Tabulation - (Cont.)

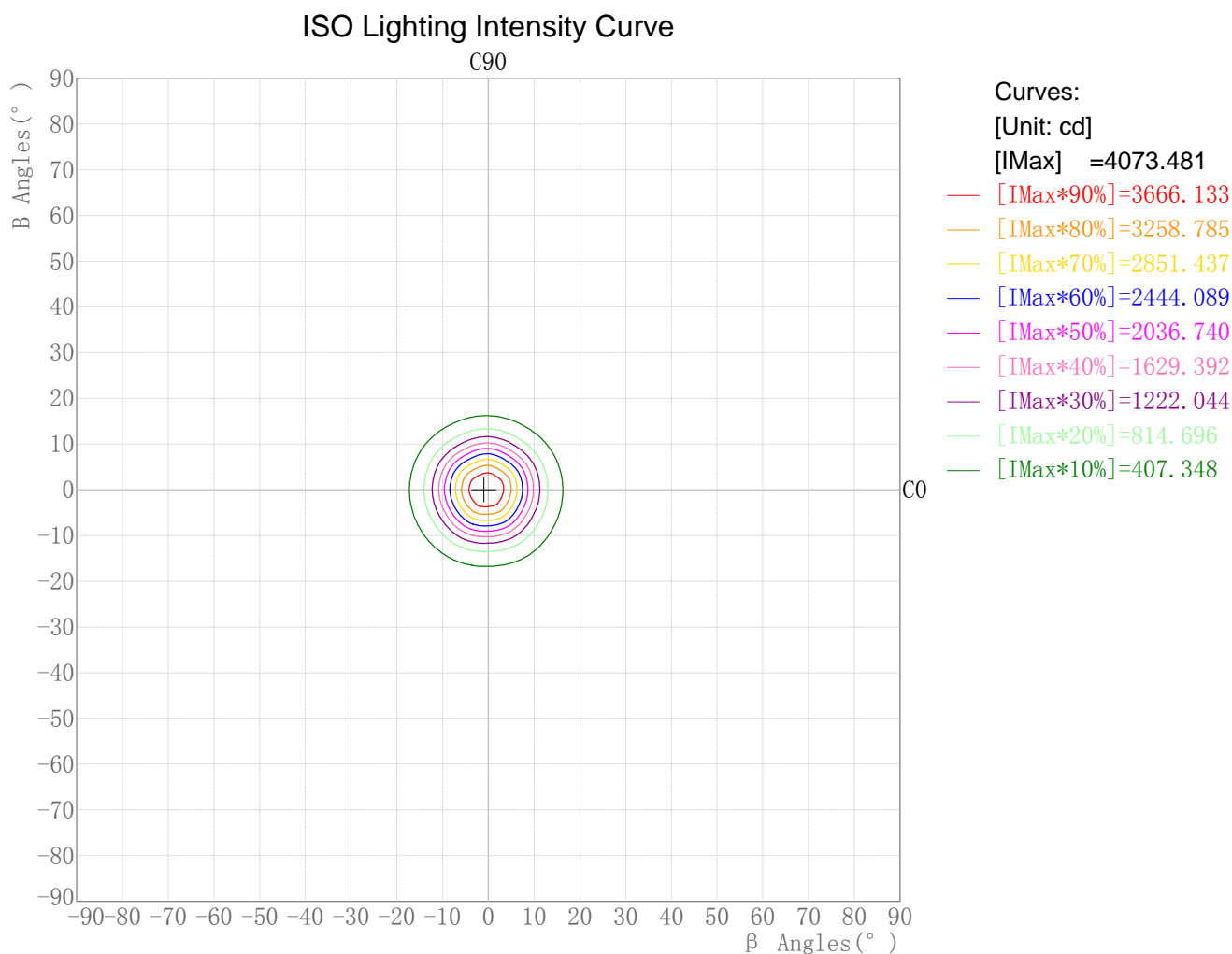
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.55	568.48	0.09	93.68	141.0-142.0	0.62	593.99	0.10	97.89
95.0-96.0	0.55	569.03	0.09	93.77	142.0-143.0	0.62	594.61	0.10	97.99
96.0-97.0	0.55	569.58	0.09	93.86	143.0-144.0	0.61	595.22	0.10	98.09
97.0-98.0	0.54	570.12	0.09	93.95	144.0-145.0	0.60	595.82	0.10	98.19
98.0-99.0	0.54	570.66	0.09	94.04	145.0-146.0	0.59	596.42	0.10	98.29
99.0-100.0	0.54	571.20	0.09	94.13	146.0-147.0	0.58	597.00	0.10	98.38
100.0-101.0	0.53	571.73	0.09	94.22	147.0-148.0	0.57	597.57	0.09	98.48
101.0-102.0	0.53	572.26	0.09	94.31	148.0-149.0	0.56	598.13	0.09	98.57
102.0-103.0	0.53	572.79	0.09	94.39	149.0-150.0	0.54	598.67	0.09	98.66
103.0-104.0	0.53	573.31	0.09	94.48	150.0-151.0	0.53	599.20	0.09	98.75
104.0-105.0	0.52	573.84	0.09	94.57	151.0-152.0	0.51	599.72	0.08	98.83
105.0-106.0	0.52	574.36	0.09	94.65	152.0-153.0	0.50	600.22	0.08	98.91
106.0-107.0	0.52	574.88	0.09	94.74	153.0-154.0	0.48	600.70	0.08	98.99
107.0-108.0	0.52	575.40	0.09	94.82	154.0-155.0	0.47	601.17	0.08	99.07
108.0-109.0	0.52	575.91	0.09	94.91	155.0-156.0	0.45	601.61	0.07	99.14
109.0-110.0	0.51	576.43	0.08	94.99	156.0-157.0	0.43	602.05	0.07	99.21
110.0-111.0	0.51	576.94	0.08	95.08	157.0-158.0	0.41	602.46	0.07	99.28
111.0-112.0	0.51	577.45	0.08	95.16	158.0-159.0	0.40	602.86	0.07	99.35
112.0-113.0	0.51	577.95	0.08	95.24	159.0-160.0	0.38	603.24	0.06	99.41
113.0-114.0	0.50	578.46	0.08	95.33	160.0-161.0	0.36	603.60	0.06	99.47
114.0-115.0	0.50	578.96	0.08	95.41	161.0-162.0	0.34	603.94	0.06	99.53
115.0-116.0	0.50	579.46	0.08	95.49	162.0-163.0	0.32	604.26	0.05	99.58
116.0-117.0	0.50	579.97	0.08	95.58	163.0-164.0	0.30	604.56	0.05	99.63
117.0-118.0	0.50	580.47	0.08	95.66	164.0-165.0	0.28	604.85	0.05	99.68
118.0-119.0	0.50	580.97	0.08	95.74	165.0-166.0	0.26	605.11	0.04	99.72
119.0-120.0	0.50	581.47	0.08	95.82	166.0-167.0	0.24	605.36	0.04	99.76
120.0-121.0	0.50	581.98	0.08	95.91	167.0-168.0	0.23	605.58	0.04	99.80
121.0-122.0	0.51	582.48	0.08	95.99	168.0-169.0	0.21	605.79	0.03	99.83
122.0-123.0	0.51	582.99	0.08	96.07	169.0-170.0	0.19	605.97	0.03	99.86
123.0-124.0	0.51	583.50	0.08	96.16	170.0-171.0	0.17	606.14	0.03	99.89
124.0-125.0	0.52	584.01	0.08	96.24	171.0-172.0	0.15	606.29	0.02	99.91
125.0-126.0	0.52	584.53	0.09	96.33	172.0-173.0	0.13	606.41	0.02	99.93
126.0-127.0	0.53	585.06	0.09	96.42	173.0-174.0	0.11	606.52	0.02	99.95
127.0-128.0	0.54	585.60	0.09	96.50	174.0-175.0	0.09	606.61	0.01	99.97
128.0-129.0	0.55	586.14	0.09	96.59	175.0-176.0	0.07	606.69	0.01	99.98
129.0-130.0	0.56	586.70	0.09	96.69	176.0-177.0	0.06	606.74	0.01	99.99
130.0-131.0	0.57	587.27	0.09	96.78	177.0-178.0	0.04	606.78	0.01	100.00
131.0-132.0	0.58	587.85	0.10	96.88	178.0-179.0	0.02	606.81	0.00	100.00
132.0-133.0	0.59	588.44	0.10	96.97	179.0-180.0	0.01	606.81	0.00	100.00
133.0-134.0	0.60	589.03	0.10	97.07					
134.0-135.0	0.61	589.64	0.10	97.17					
135.0-136.0	0.61	590.25	0.10	97.27					
136.0-137.0	0.62	590.87	0.10	97.37					
137.0-138.0	0.62	591.49	0.10	97.48					
138.0-139.0	0.63	592.12	0.10	97.58					
139.0-140.0	0.63	592.75	0.10	97.68					
140.0-141.0	0.62	593.37	0.10	97.79					

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 9W.IES

## 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): 4073.48  
Maximum Cand.@Angle: H=-1.0°;V=0.0°

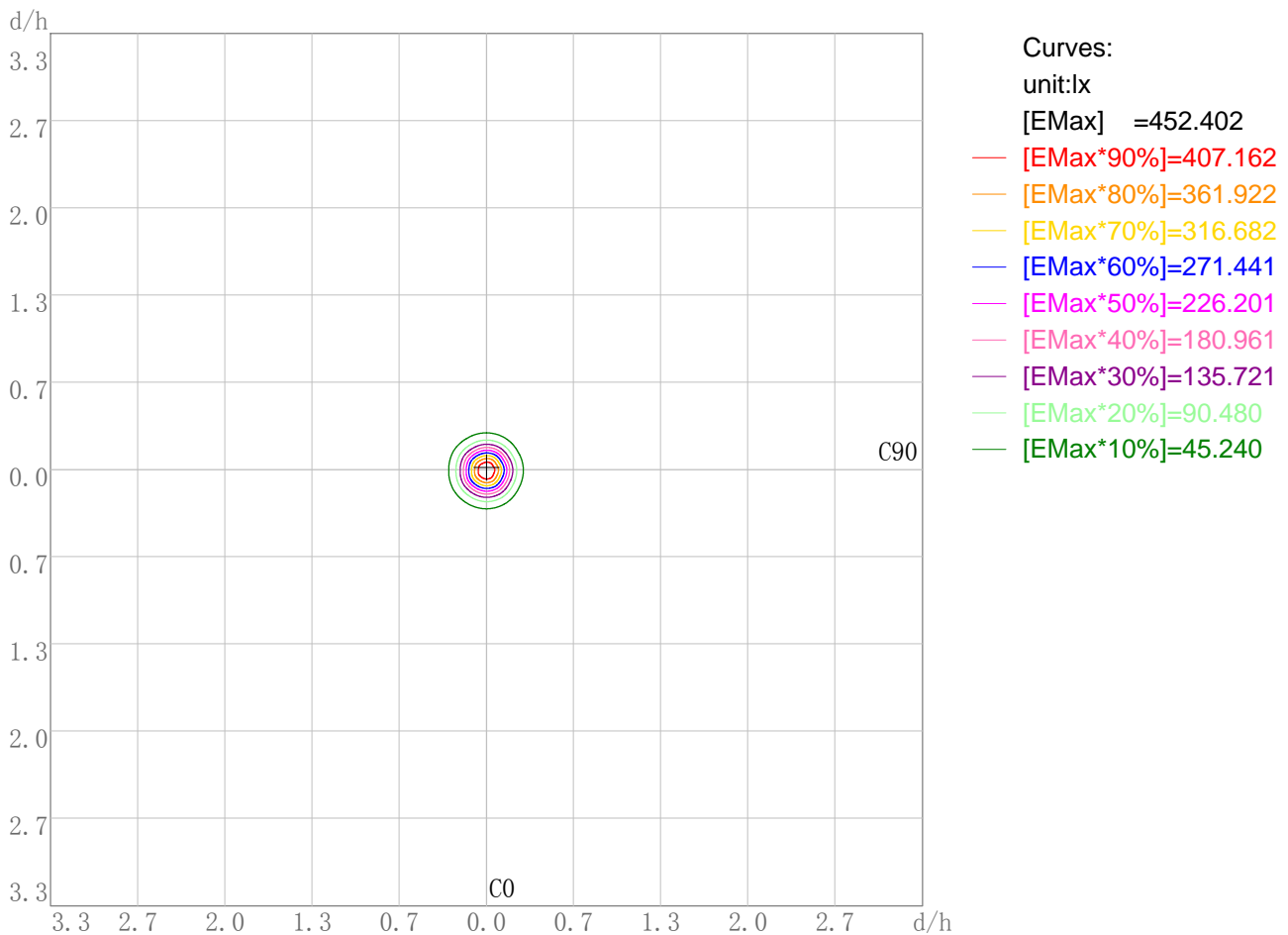
# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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



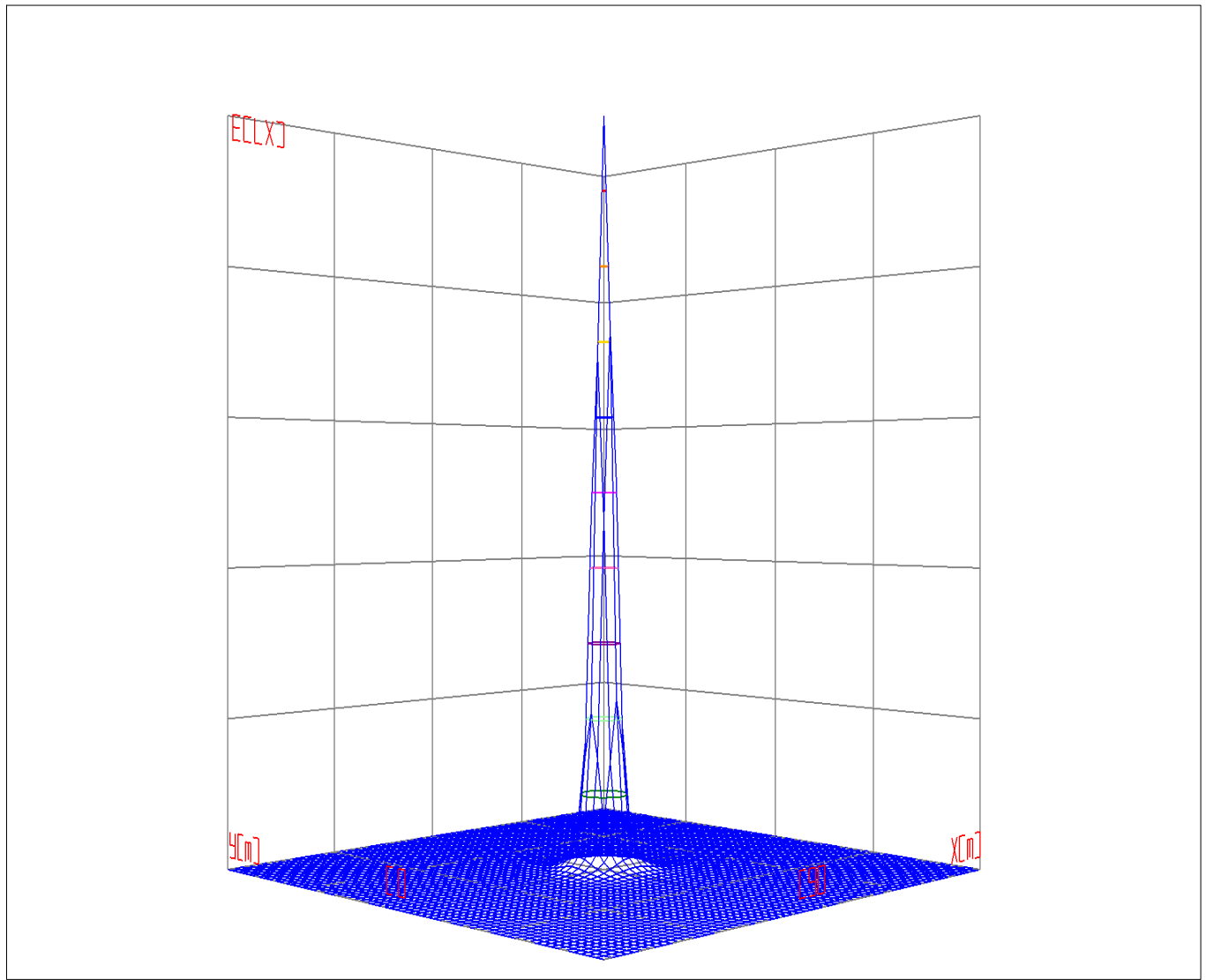
# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 9W.IES

## 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



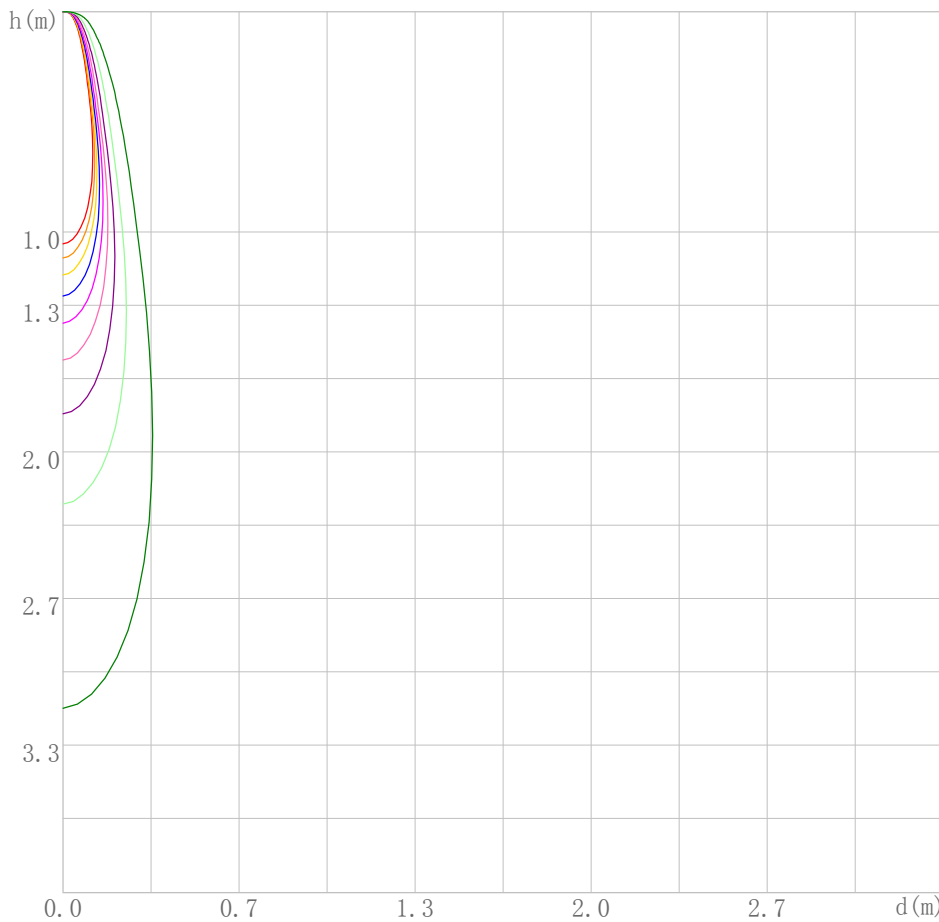
# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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] =4068.129
- [EMax\*90%]=3661.316
  - [EMax\*80%]=3254.503
  - [EMax\*70%]=2847.690
  - [EMax\*60%]=2440.877
  - [EMax\*50%]=2034.064
  - [EMax\*40%]=1627.252
  - [EMax\*30%]=1220.439
  - [EMax\*20%]=813.626
  - [EMax\*10%]=406.813

Space Plane Maximum Illuminance and @Angle:4068.13lx,0.0deg  
Plane Maximum Lighting Intensity and @Angle:4068.129cd,0deg

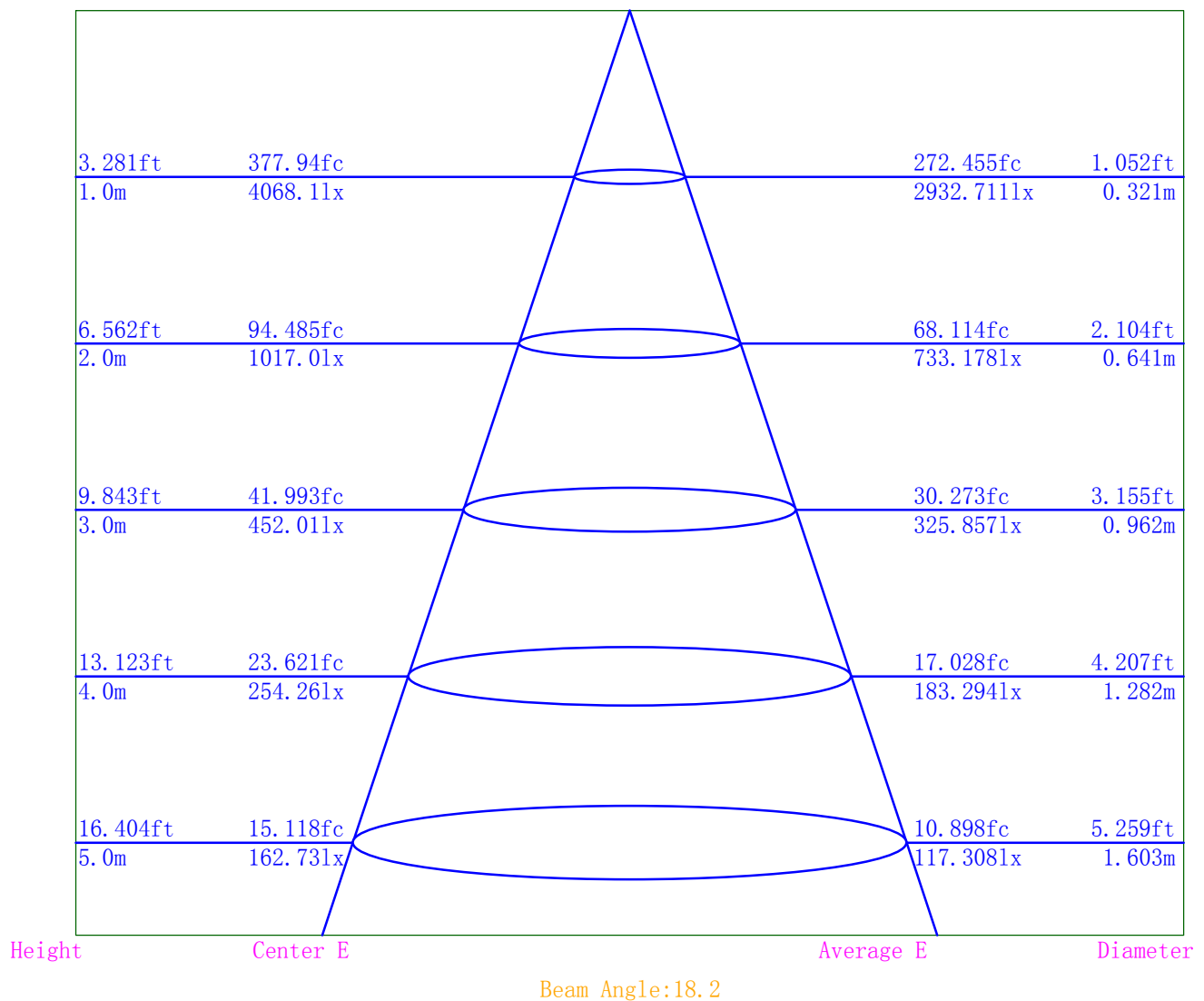
# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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



# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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

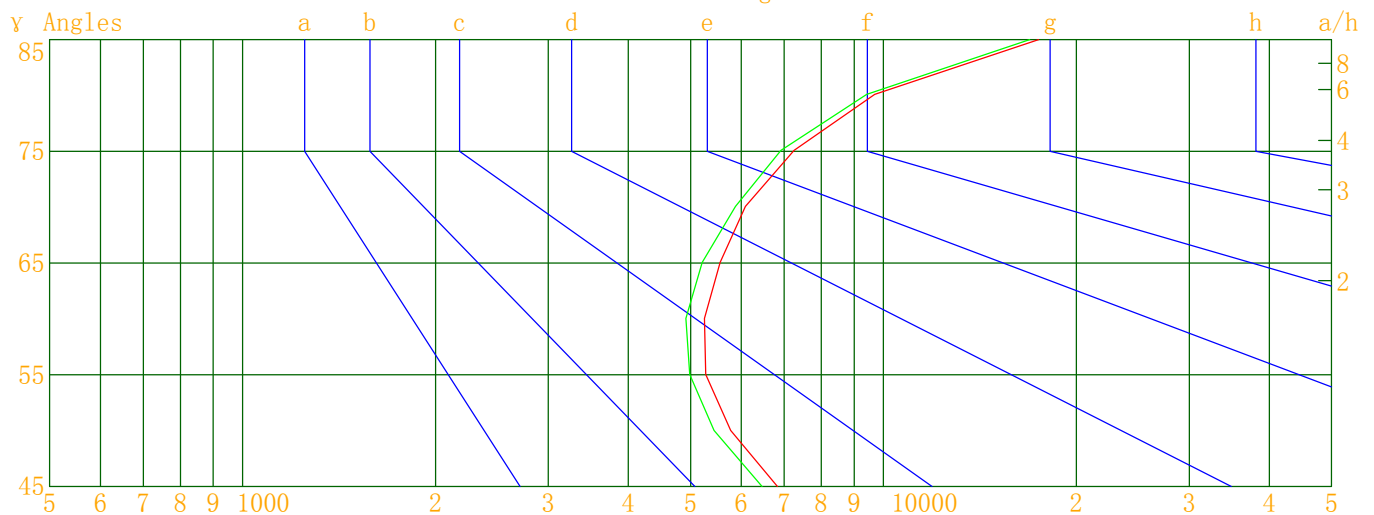
Glare Grade Table

GI	Quality	Using Illuminance							
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	6833	5774	5279	5254	5562	6091	7253	9692	17453
C90	6465	5443	4984	4919	5217	5875	6916	9414	16905

Luminance Limiting Curve



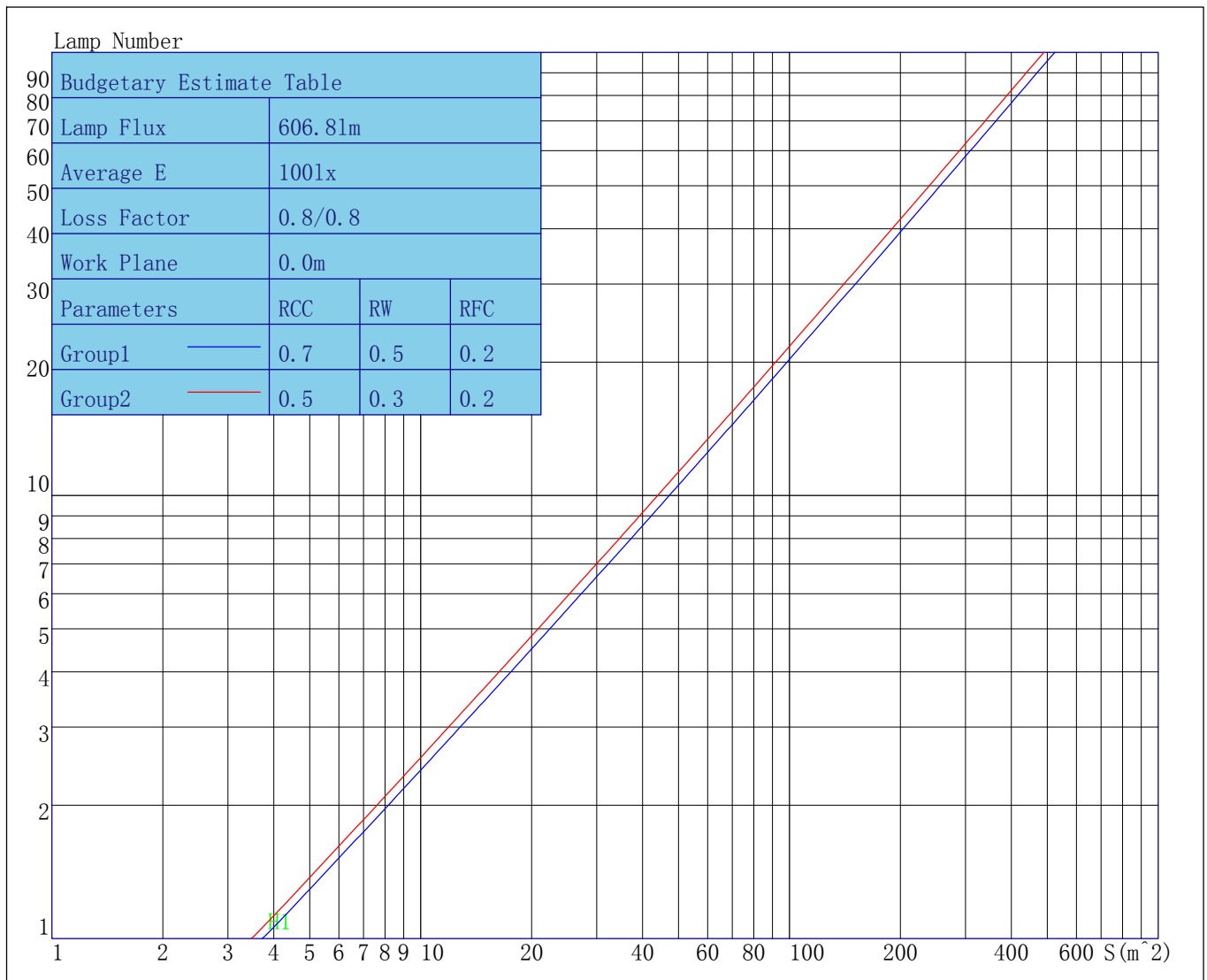
Luminous Size: Length(m)=-0.075 Width(m)=-0.075 Height(m)=0.000 Area(m<sup>2</sup>)=0.004418  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

# IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 9W.IES

## 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

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 9W.IES

## 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	110	108	106	109	107	105	103	102	100	99	97	96	95	93	92	91	89
2	108	104	101	98	105	102	99	96	98	95	93	94	92	90	90	89	87	85
3	104	99	95	92	102	97	94	91	94	91	88	91	88	86	88	86	84	82
4	101	95	91	87	99	93	89	86	91	87	85	88	85	83	85	83	81	80
5	98	91	87	84	96	90	86	83	88	84	82	85	83	80	83	81	79	78
6	95	88	84	81	93	87	83	80	85	82	79	83	80	78	81	79	77	76
7	92	85	81	78	91	85	80	78	83	79	77	81	78	76	80	77	75	74
8	90	83	79	76	89	82	78	75	81	77	75	79	76	74	78	75	73	72
9	88	81	77	74	86	80	76	73	79	75	73	78	75	72	76	74	72	71
10	86	79	75	72	84	78	74	72	77	74	71	76	73	71	75	72	70	69

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15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	11.3	12.2	11.8	12.7	13.2	12.1	13.0	12.6	13.5	14.0
Y=3H	13.3	14.1	13.8	14.6	15.1	13.9	14.7	14.4	15.2	15.7
Y=4H	14.5	15.3	15.0	15.7	16.3	15.0	15.7	15.5	16.2	16.8
Y=6H	15.9	16.6	16.5	17.1	17.7	16.2	16.9	16.8	17.4	18.0
Y=8H	16.7	17.4	17.3	17.9	18.5	17.0	17.6	17.5	18.1	18.7
Y=12H	17.7	18.3	18.2	18.8	19.4	17.9	18.5	18.4	19.0	19.6
X=4H Y=2H	11.8	12.5	12.3	13.0	13.6	12.7	13.4	13.2	13.9	14.5
Y=3H	14.0	14.6	14.5	15.1	15.7	14.8	15.4	15.3	16.0	16.5
Y=4H	15.4	15.9	15.9	16.5	17.1	16.1	16.6	16.6	17.2	17.8
Y=6H	17.0	17.5	17.6	18.1	18.7	17.6	18.1	18.2	18.7	19.3
Y=8H	18.0	18.4	18.6	19.0	19.6	18.4	18.9	19.0	19.5	20.1
Y=12H	19.1	19.5	19.7	20.1	20.7	19.4	19.8	20.1	20.4	21.1
X=8H Y=4H	15.8	16.3	16.4	16.8	17.5	16.6	17.1	17.2	17.6	18.3
Y=6H	17.7	18.1	18.3	18.7	19.4	18.4	18.8	19.0	19.4	20.1
Y=8H	18.8	19.2	19.5	19.8	20.4	19.5	19.8	20.1	20.4	21.1
Y=12H	20.2	20.5	20.8	21.1	21.8	20.7	21.0	21.4	21.6	22.3
X=12H Y=4H	15.9	16.3	16.5	16.9	17.5	16.7	17.1	17.3	17.7	18.3
Y=6H	17.9	18.2	18.6	18.8	19.5	18.6	19.0	19.3	19.6	20.2
Y=8H	19.1	19.4	19.8	20.0	20.8	19.8	20.1	20.5	20.7	21.4
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/-0.2					0.1/-0.2				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	5.2					5.1				

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 15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	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13	4068.13
Y 1.0	4024.23	4038.41	4016.68	4033.53	4030.87	4061.84	4073.48	4065.42	4053.06	4024.17	4027.10	4010.13
Y 2.0	3912.24	3938.37	3910.83	3953.26	3945.57	4003.67	4012.51	3994.63	3988.30	3936.39	3942.40	3899.30
Y 3.0	3741.60	3778.03	3744.51	3811.27	3801.89	3885.19	3894.48	3866.98	3867.77	3792.90	3801.69	3732.18
Y 4.0	3519.63	3562.76	3525.60	3614.21	3603.93	3711.32	3719.73	3684.97	3692.73	3595.55	3606.26	3510.68
Y 5.0	3249.89	3299.80	3259.10	3366.51	3357.13	3485.89	3494.67	3455.45	3469.15	3350.66	3361.11	3243.29
Y 6.0	2941.70	2993.51	2954.11	3075.15	3066.72	3217.16	3223.57	3182.21	3197.29	3063.36	3070.03	2936.63
Y 7.0	2601.25	2659.11	2615.42	2751.30	2745.07	2909.71	2917.78	2870.77	2888.49	2741.76	2746.87	2601.67
Y 8.0	2249.41	2309.29	2264.17	2407.42	2401.45	2577.21	2584.27	2534.33	2550.45	2397.14	2404.99	2252.56
Y 9.0	1901.10	1954.96	1912.20	2055.11	2052.55	2229.28	2241.60	2184.99	2201.11	2047.12	2055.82	1905.64
Y 10.0	1574.39	1618.13	1582.38	1713.50	1716.94	1886.73	1901.98	1840.73	1854.88	1707.81	1718.60	1577.17
Y 11.0	1281.98	1315.55	1283.32	1399.09	1407.66	1565.14	1581.00	1523.90	1527.69	1401.47	1409.01	1284.45
Y 12.0	1030.07	1054.37	1024.58	1121.48	1133.63	1276.41	1292.29	1238.89	1239.21	1130.91	1139.18	1032.98
Y 13.0	822.44	834.30	807.96	885.50	899.43	1025.52	1043.06	996.28	994.51	907.19	912.13	825.91
Y 14.0	654.77	659.70	634.59	692.29	707.46	815.46	834.49	795.88	792.74	724.68	728.86	660.66
Y 15.0	525.76	523.39	499.50	538.78	554.87	643.16	665.05	635.60	632.06	580.34	585.42	531.38
Y 16.0	429.12	421.05	400.04	424.04	439.93	510.47	531.17	510.93	506.80	469.04	473.97	432.60
Y 17.0	355.63	344.76	326.31	339.88	355.45	409.89	428.95	416.28	412.02	385.65	388.41	358.35
Y 18.0	298.98	287.37	271.44	278.43	292.81	334.51	349.97	344.34	339.22	320.99	322.35	299.98
Y 19.0	254.05	242.95	229.07	233.31	245.08	277.21	289.62	287.91	283.60	269.92	270.48	253.64
Y 20.0	217.62	207.17	196.01	198.85	208.54	233.38	241.93	242.69	238.89	228.35	228.02	215.59
Y 21.0	187.76	178.05	169.50	171.72	179.86	198.62	204.11	206.04	202.40	194.61	193.17	184.09
Y 22.0	163.07	154.29	148.00	149.72	156.80	170.83	173.63	175.91	172.48	166.55	164.57	157.59
Y 23.0	142.65	134.81	130.20	131.83	137.91	148.45	148.42	151.18	147.50	143.57	141.03	135.74
Y 24.0	125.45	118.54	115.65	116.80	122.11	129.85	127.53	130.39	126.95	124.28	121.25	117.47
Y 25.0	111.20	105.13	103.33	104.23	109.12	114.53	110.12	112.91	109.87	108.30	104.99	102.00
Y 26.0	99.11	93.97	92.96	93.61	98.14	101.95	95.92	98.40	95.74	94.60	91.43	89.06
Y 27.0	88.91	84.43	84.14	84.22	88.53	91.38	83.97	86.33	83.56	82.47	79.54	77.85
Y 28.0	80.04	76.03	76.36	76.06	80.35	82.05	73.60	75.71	72.87	72.23	69.48	68.32
Y 29.0	72.16	68.71	69.46	68.69	72.87	73.93	64.67	66.67	63.94	63.44	60.68	60.05
Y 30.0	65.15	62.19	63.03	62.08	65.92	66.89	56.65	58.68	56.20	55.56	53.09	52.59
Y 31.0	58.81	56.20	57.30	55.80	59.69	60.31	49.56	51.44	49.19	48.51	46.49	46.16
Y 32.0	53.56	51.34	52.60	50.69	54.33	54.27	43.19	45.05	43.04	42.62	40.83	40.76
Y 33.0	49.10	47.01	48.31	46.42	49.74	49.37	37.88	39.87	37.96	37.62	36.23	36.19
Y 34.0	45.15	43.14	44.61	42.43	45.74	45.12	33.33	35.30	33.65	33.26	32.09	32.40
Y 35.0	41.60	39.76	41.21	38.94	42.07	41.31	29.52	31.45	29.82	29.63	28.71	29.16
Y 36.0	38.41	36.86	38.20	36.03	38.89	37.97	26.05	28.09	26.61	26.38	25.62	26.18
Y 37.0	35.51	33.86	35.31	33.20	35.88	35.05	23.21	25.14	23.70	23.57	22.84	23.45
Y 38.0	32.83	31.40	32.74	30.72	33.16	32.21	20.51	22.36	21.13	21.34	20.56	21.26
Y 39.0	30.66	29.21	30.52	28.59	30.84	29.88	18.31	20.19	18.98	19.30	18.48	19.39
Y 40.0	28.77	27.41	28.64	26.76	28.85	27.89	16.39	18.34	17.19	17.58	16.73	17.76
Y 41.0	26.84	25.65	26.77	25.31	27.17	26.17	14.99	16.97	15.54	16.16	15.28	16.24
Y 42.0	25.39	24.10	25.32	23.87	25.66	24.76	13.88	15.55	14.34	14.90	14.05	15.04
Y 43.0	23.90	22.70	23.85	22.67	24.12	23.37	12.89	14.47	13.25	13.80	12.91	14.03
Y 44.0	22.69	21.40	22.45	21.40	22.85	22.06	12.01	13.44	12.20	12.96	11.94	12.94
Y 45.0	21.35	20.06	21.26	20.20	21.55	20.90	11.14	12.46	11.28	11.89	10.98	11.90
Y 46.0	19.95	18.82	19.95	18.92	20.28	19.62	10.22	11.48	10.24	10.89	10.02	10.82

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15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	18.83	17.54	18.74	17.83	18.95	18.27	9.20	10.45	9.30	10.00	8.95	9.82
Y 48.0	17.87	16.61	17.86	16.92	17.91	17.17	8.36	9.51	8.42	9.33	8.23	9.22
Y 49.0	17.02	15.85	17.02	16.17	17.18	16.38	7.77	8.92	7.94	8.91	7.73	8.74
Y 50.0	16.40	15.21	16.34	15.46	16.50	15.51	7.31	8.61	7.53	8.51	7.36	8.33
Y 51.0	15.73	14.53	15.71	14.79	15.81	14.93	7.00	8.23	7.23	8.25	7.08	8.07
Y 52.0	15.14	14.03	15.16	14.25	15.22	14.35	6.77	7.97	7.09	7.94	6.87	7.80
Y 53.0	14.55	13.44	14.45	13.69	14.60	13.74	6.63	7.65	6.91	7.74	6.65	7.56
Y 54.0	13.91	12.90	13.78	13.11	14.10	13.31	6.45	7.39	6.61	7.41	6.41	7.19
Y 55.0	13.38	12.41	13.30	12.63	13.47	12.71	6.06	7.04	6.18	7.11	6.12	6.99
Y 56.0	12.94	11.94	12.90	12.22	13.08	12.31	5.91	6.89	6.07	6.97	6.04	6.90
Y 57.0	12.53	11.61	12.44	11.79	12.61	11.91	5.89	6.77	5.98	6.93	5.94	6.74
Y 58.0	12.18	11.38	12.21	11.44	12.26	11.61	5.83	6.66	5.91	6.91	5.91	6.72
Y 59.0	11.96	11.10	11.79	11.13	11.94	11.24	5.87	6.65	5.89	6.80	5.88	6.70
Y 60.0	11.60	10.80	11.59	10.87	11.62	10.95	5.76	6.56	5.94	6.79	5.91	6.62
Y 61.0	11.30	10.53	11.29	10.65	11.33	10.67	5.78	6.59	5.90	6.65	5.79	6.55
Y 62.0	11.16	10.22	11.10	10.40	11.11	10.46	5.74	6.53	5.77	6.62	5.78	6.42
Y 63.0	10.96	9.98	10.77	10.21	10.89	10.17	5.64	6.54	5.71	6.58	5.77	6.38
Y 64.0	10.56	9.77	10.52	9.98	10.55	9.95	5.53	6.37	5.74	6.49	5.68	6.30
Y 65.0	10.38	9.51	10.32	9.74	10.30	9.73	5.44	6.38	5.62	6.40	5.54	6.26
Y 66.0	10.04	9.33	10.03	9.57	10.13	9.46	5.46	6.34	5.64	6.28	5.65	6.23
Y 67.0	9.86	9.15	9.83	9.32	9.90	9.27	5.32	6.18	5.52	6.24	5.55	6.15
Y 68.0	9.60	8.96	9.61	9.10	9.68	9.06	5.32	6.05	5.51	6.09	5.43	5.95
Y 69.0	9.40	8.87	9.39	8.95	9.46	8.87	5.26	5.98	5.44	5.98	5.42	5.89
Y 70.0	9.20	8.60	9.21	8.88	9.29	8.68	5.25	5.86	5.40	5.91	5.23	5.83
Y 71.0	9.07	8.44	8.97	8.69	9.06	8.58	5.19	5.83	5.23	5.99	5.13	5.68
Y 72.0	8.78	8.28	8.84	8.46	8.89	8.39	5.09	5.69	5.20	5.84	5.13	5.59
Y 73.0	8.67	8.07	8.75	8.31	8.63	8.24	4.95	5.63	5.13	5.73	5.03	5.52
Y 74.0	8.56	7.87	8.52	8.08	8.51	7.95	4.89	5.55	5.06	5.66	4.98	5.39
Y 75.0	8.29	7.76	8.28	7.91	8.29	7.87	4.81	5.34	4.96	5.53	4.86	5.40
Y 76.0	8.14	7.59	8.09	7.78	8.13	7.53	4.70	5.35	4.84	5.45	4.86	5.38
Y 77.0	7.99	7.38	7.91	7.70	7.94	7.35	4.65	5.26	4.70	5.37	4.72	5.25
Y 78.0	7.78	7.23	7.80	7.52	7.78	7.20	4.66	5.16	4.68	5.28	4.70	5.19
Y 79.0	7.61	7.13	7.63	7.30	7.65	7.08	4.57	5.09	4.61	5.19	4.59	5.18
Y 80.0	7.43	6.98	7.45	7.22	7.49	6.95	4.57	5.01	4.58	5.14	4.59	5.05
Y 81.0	7.25	6.86	7.26	7.05	7.34	6.71	4.55	4.96	4.52	5.10	4.51	5.16
Y 82.0	7.15	6.65	7.14	6.87	7.21	6.59	4.46	4.87	4.50	5.05	4.49	5.05
Y 83.0	7.01	6.52	7.11	6.67	6.89	6.55	4.46	4.89	4.47	5.01	4.48	4.95
Y 84.0	6.82	6.49	6.89	6.65	6.95	6.43	4.45	4.76	4.50	4.91	4.42	4.90
Y 85.0	6.72	6.30	6.74	6.51	6.83	6.38	4.38	4.74	4.47	4.92	4.39	4.87
Y 86.0	6.61	6.16	6.63	6.37	6.73	6.11	4.32	4.77	4.46	4.85	4.36	4.85
Y 87.0	6.46	6.07	6.46	6.29	6.50	6.01	4.31	4.75	4.48	4.91	4.43	4.84
Y 88.0	6.38	6.02	6.40	6.19	6.39	5.92	4.29	4.64	4.40	4.82	4.40	4.80
Y 89.0	6.24	5.94	6.28	6.06	6.29	5.75	4.26	4.61	4.35	4.87	4.32	4.77
Y 90.0	6.15	5.86	6.18	6.02	6.24	5.75	4.22	4.59	4.47	4.87	4.42	4.77
Y 91.0	6.11	5.76	6.02	5.88	6.10	5.61	4.28	4.63	4.37	4.82	4.35	4.72
Y 92.0	5.95	5.70	6.00	5.82	6.07	5.65	4.28	4.60	4.39	4.79	4.35	4.72
Y 93.0	5.91	5.57	5.90	5.72	5.98	5.53	4.20	4.51	4.42	4.79	4.39	4.71



# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15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	5.77	5.55	5.84	5.64	5.95	5.43	4.22	4.66	4.39	4.70	4.32	4.69
Y 95.0	5.71	5.49	5.76	5.61	5.86	5.36	4.24	4.60	4.33	4.68	4.32	4.68
Y 96.0	5.68	5.45	5.77	5.62	5.71	5.29	4.23	4.61	4.37	4.67	4.38	4.70
Y 97.0	5.62	5.40	5.57	5.59	5.64	5.28	4.30	4.63	4.31	4.69	4.37	4.72
Y 98.0	5.49	5.34	5.63	5.53	5.59	5.16	4.31	4.58	4.40	4.67	4.36	4.61
Y 99.0	5.51	5.37	5.55	5.51	5.58	5.22	4.34	4.54	4.37	4.64	4.44	4.63
Y 100.0	5.46	5.28	5.59	5.49	5.54	5.14	4.36	4.51	4.43	4.59	4.37	4.60
Y 101.0	5.45	5.23	5.60	5.36	5.48	5.18	4.35	4.58	4.39	4.67	4.41	4.60
Y 102.0	5.41	5.23	5.63	5.40	5.45	5.11	4.34	4.55	4.36	4.67	4.38	4.62
Y 103.0	5.50	5.35	5.59	5.45	5.52	5.05	4.41	4.53	4.40	4.66	4.26	4.62
Y 104.0	5.43	5.30	5.61	5.38	5.53	5.11	4.30	4.51	4.41	4.68	4.41	4.65
Y 105.0	5.40	5.25	5.65	5.43	5.51	5.07	4.39	4.55	4.29	4.62	4.41	4.61
Y 106.0	5.44	5.14	5.69	5.37	5.46	5.11	4.39	4.54	4.32	4.65	4.37	4.61
Y 107.0	5.47	5.22	5.72	5.43	5.53	5.25	4.31	4.49	4.46	4.62	4.37	4.59
Y 108.0	5.44	5.32	5.66	5.41	5.56	5.26	4.34	4.47	4.44	4.58	4.48	4.61
Y 109.0	5.53	5.35	5.64	5.50	5.56	5.24	4.29	4.47	4.39	4.59	4.41	4.59
Y 110.0	5.53	5.36	5.64	5.47	5.63	5.23	4.45	4.45	4.44	4.57	4.44	4.62
Y 111.0	5.57	5.30	5.59	5.51	5.59	5.27	4.46	4.45	4.45	4.60	4.41	4.55
Y 112.0	5.56	5.33	5.67	5.59	5.60	5.29	4.43	4.51	4.45	4.61	4.39	4.55
Y 113.0	5.55	5.36	5.69	5.57	5.60	5.28	4.43	4.48	4.48	4.56	4.43	4.59
Y 114.0	5.59	5.40	5.63	5.60	5.66	5.34	4.50	4.46	4.53	4.54	4.38	4.59
Y 115.0	5.69	5.52	5.68	5.64	5.69	5.37	4.51	4.53	4.57	4.63	4.40	4.62
Y 116.0	5.73	5.57	5.66	5.63	5.70	5.29	4.49	4.55	4.57	4.72	4.45	4.70
Y 117.0	5.73	5.59	5.67	5.71	5.80	5.37	4.55	4.63	4.60	4.72	4.52	4.75
Y 118.0	5.80	5.57	5.73	5.65	5.86	5.43	4.63	4.66	4.66	4.78	4.61	4.79
Y 119.0	5.73	5.69	5.77	5.76	5.87	5.45	4.64	4.88	4.74	4.82	4.69	4.80
Y 120.0	5.69	5.66	5.85	5.88	5.87	5.50	4.58	4.82	4.82	4.99	4.88	4.93
Y 121.0	5.69	5.84	5.82	5.81	5.89	5.54	4.77	4.96	4.91	5.00	4.91	5.11
Y 122.0	5.82	5.80	5.84	5.83	5.92	5.62	4.93	5.15	5.03	5.13	5.11	5.21
Y 123.0	5.76	5.82	5.93	5.77	5.84	5.59	5.09	5.25	5.22	5.27	5.25	5.35
Y 124.0	5.86	5.88	5.95	5.89	5.95	5.69	5.25	5.46	5.40	5.46	5.34	5.55
Y 125.0	5.94	5.92	6.07	6.08	5.95	5.79	5.35	5.66	5.52	5.60	5.54	5.71
Y 126.0	6.07	6.07	6.10	6.03	6.07	5.82	5.59	5.77	5.71	5.79	5.78	5.90
Y 127.0	6.27	6.18	6.31	6.23	6.21	5.88	5.83	5.96	5.99	6.02	6.06	6.15
Y 128.0	6.31	6.35	6.35	6.33	6.37	6.12	5.99	6.17	6.28	6.26	6.34	6.38
Y 129.0	6.45	6.37	6.55	6.54	6.46	6.27	6.26	6.44	6.48	6.53	6.47	6.68
Y 130.0	6.71	6.59	6.70	6.65	6.68	6.55	6.64	6.67	6.80	6.85	6.80	6.85
Y 131.0	6.97	6.84	6.90	6.84	6.87	6.72	6.86	6.93	6.99	7.01	6.99	7.22
Y 132.0	7.13	7.14	7.16	6.98	6.96	6.86	7.06	7.20	7.30	7.36	7.29	7.40
Y 133.0	7.30	7.38	7.35	7.29	7.23	7.07	7.40	7.50	7.54	7.56	7.58	7.65
Y 134.0	7.54	7.55	7.54	7.56	7.41	7.27	7.58	7.67	7.76	7.80	7.80	7.92
Y 135.0	7.84	7.80	7.83	7.73	7.60	7.47	7.86	7.88	8.02	8.02	8.09	8.18
Y 136.0	8.12	7.89	7.99	7.99	7.85	7.80	8.11	8.17	8.17	8.29	8.23	8.40
Y 137.0	8.27	8.23	8.24	8.24	8.03	8.00	8.21	8.43	8.38	8.51	8.45	8.63
Y 138.0	8.37	8.42	8.46	8.40	8.39	8.19	8.42	8.67	8.54	8.69	8.65	8.88
Y 139.0	8.73	8.64	8.67	8.71	8.59	8.44	8.62	8.77	8.81	8.85	8.79	9.01
Y 140.0	8.85	8.77	8.84	8.89	8.74	8.63	8.77	9.03	8.98	9.07	8.99	9.01

# IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15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	9.09	9.05	9.10	9.01	8.92	8.72	8.90	9.19	9.06	9.10	9.11	9.22
Y 142.0	9.14	9.11	9.28	9.17	9.05	8.95	8.99	9.32	9.28	9.24	9.13	9.38
Y 143.0	9.33	9.21	9.43	9.35	9.19	9.13	9.12	9.52	9.38	9.32	9.27	9.41
Y 144.0	9.54	9.56	9.54	9.44	9.37	9.28	9.31	9.61	9.48	9.31	9.38	9.52
Y 145.0	9.57	9.54	9.61	9.48	9.48	9.40	9.30	9.70	9.60	9.43	9.44	9.61
Y 146.0	9.58	9.63	9.56	9.54	9.59	9.61	9.41	9.73	9.66	9.50	9.54	9.69
Y 147.0	9.71	9.69	9.73	9.53	9.69	9.64	9.48	9.75	9.65	9.48	9.57	9.83
Y 148.0	9.78	9.77	9.85	9.60	9.71	9.64	9.59	9.81	9.76	9.57	9.64	9.96
Y 149.0	9.78	9.73	9.90	9.63	9.77	9.70	9.62	9.88	9.81	9.53	9.71	9.87
Y 150.0	9.77	9.86	9.95	9.68	9.77	9.84	9.70	9.93	9.88	9.46	9.82	9.96
Y 151.0	9.84	9.92	9.89	9.72	9.84	9.75	9.68	10.02	9.97	9.56	9.90	9.97
Y 152.0	9.82	9.88	9.92	9.70	9.86	9.80	9.69	9.91	10.00	9.51	9.86	10.01
Y 153.0	9.95	9.85	9.94	9.67	9.95	9.92	9.78	10.06	10.06	9.44	9.86	10.13
Y 154.0	9.80	9.99	9.88	9.64	9.99	9.89	9.72	10.12	10.07	9.42	9.90	10.13
Y 155.0	9.77	9.91	9.85	9.58	9.90	9.85	9.72	10.07	10.06	9.56	10.01	10.06
Y 156.0	9.89	9.92	9.91	9.52	9.85	9.90	9.71	10.23	10.07	9.55	9.87	10.14
Y 157.0	9.82	9.88	9.89	9.58	9.94	9.89	9.72	10.20	10.19	9.55	9.98	10.14
Y 158.0	9.81	9.91	9.89	9.57	9.91	9.82	9.72	10.21	10.11	9.44	9.94	10.17
Y 159.0	9.79	9.85	9.87	9.47	9.76	9.84	9.74	10.15	10.13	9.48	9.92	10.04
Y 160.0	9.65	9.86	9.85	9.50	9.83	9.76	9.81	10.19	10.11	9.56	9.89	10.02
Y 161.0	9.66	9.81	9.83	9.42	9.81	9.82	9.74	10.15	10.19	9.61	9.86	10.03
Y 162.0	9.76	9.81	9.81	9.48	9.68	9.80	9.79	10.19	10.10	9.57	9.77	9.94
Y 163.0	9.57	9.80	9.78	9.49	9.72	9.70	9.78	10.13	10.11	9.53	9.74	9.89
Y 164.0	9.66	9.72	9.69	9.45	9.70	9.63	9.66	10.07	10.08	9.52	9.73	9.81
Y 165.0	9.53	9.71	9.62	9.45	9.63	9.57	9.67	10.03	9.95	9.58	9.65	9.81
Y 166.0	9.53	9.54	9.60	9.46	9.57	9.52	9.55	9.90	9.73	9.53	9.59	9.78
Y 167.0	9.43	9.47	9.47	9.45	9.51	9.37	9.46	9.82	9.74	9.51	9.50	9.61
Y 168.0	9.44	9.38	9.43	9.31	9.41	9.32	9.38	9.76	9.69	9.54	9.46	9.50
Y 169.0	9.19	9.24	9.32	9.33	9.36	9.22	9.34	9.69	9.49	9.39	9.31	9.29
Y 170.0	9.17	9.04	9.23	9.26	9.17	9.13	9.20	9.47	9.35	9.33	9.24	9.15
Y 171.0	9.01	9.00	9.06	9.15	9.13	8.98	9.04	9.35	9.19	9.16	9.13	9.06
Y 172.0	8.85	8.85	9.02	9.00	8.96	8.77	8.91	9.18	9.15	9.10	8.93	8.88
Y 173.0	8.66	8.70	8.84	8.95	8.75	8.62	8.75	8.99	8.95	8.90	8.80	8.70
Y 174.0	8.61	8.53	8.75	8.78	8.67	8.52	8.53	8.88	8.78	8.81	8.58	8.59
Y 175.0	8.52	8.33	8.52	8.63	8.56	8.36	8.48	8.74	8.56	8.66	8.45	8.52
Y 176.0	8.25	8.24	8.43	8.63	8.50	8.21	8.35	8.63	8.59	8.54	8.31	8.44
Y 177.0	8.27	8.12	8.42	8.59	8.36	8.23	8.21	8.56	8.46	8.58	8.34	8.33
Y 178.0	8.16	8.11	8.38	8.53	8.40	8.05	8.12	8.45	8.44	8.47	8.34	8.34
Y 179.0	8.08	8.06	8.38	8.46	8.24	8.09	8.05	8.36	8.35	8.45	8.30	8.23
Y 180.0	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25