

IES Indoor Report

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

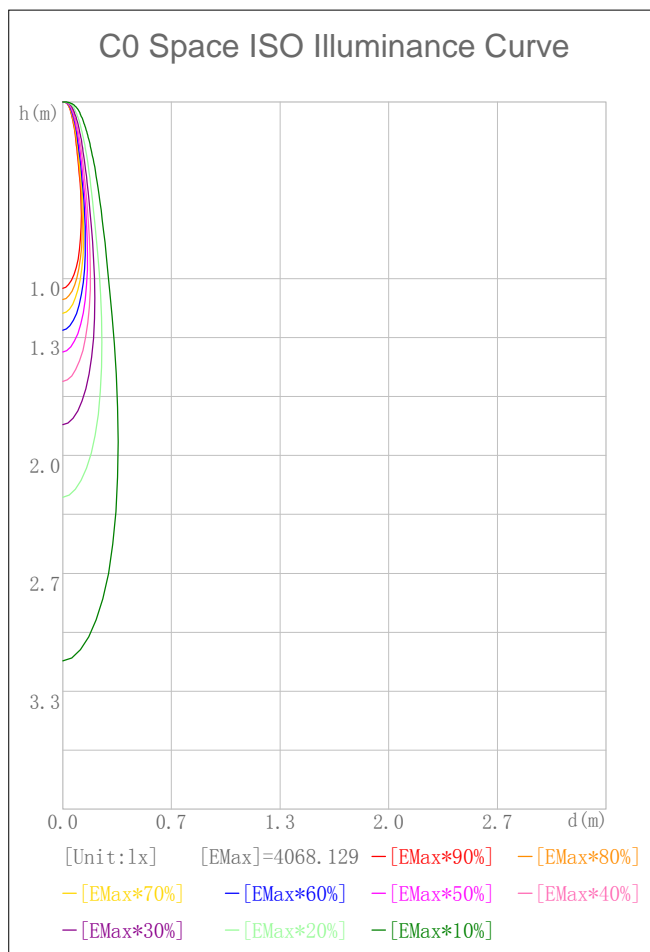
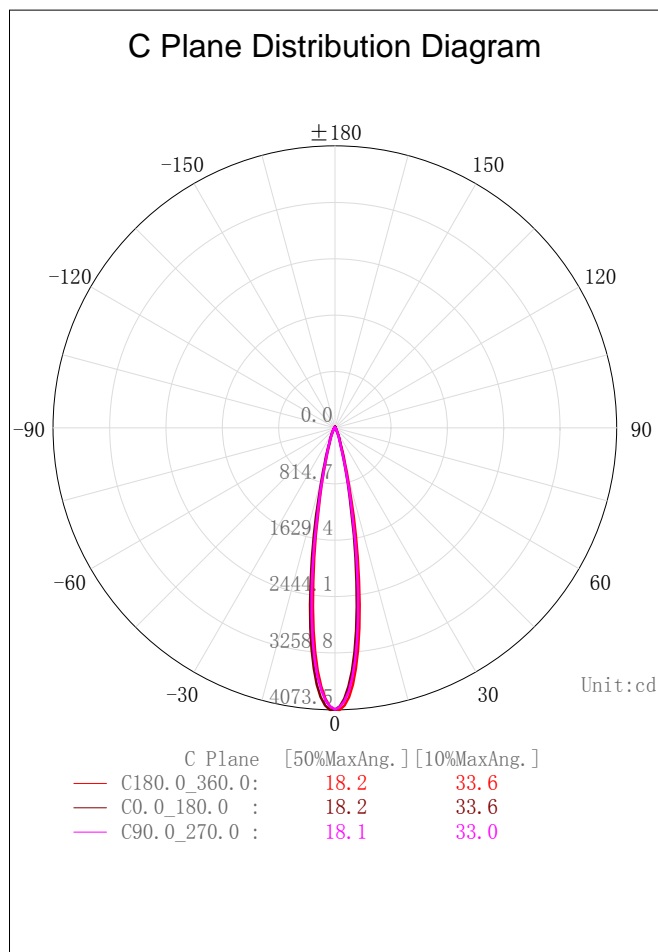
Indoor Luminaire Photometric Data

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): 606.810	Luminary Flux (lm): 606.813	Field Angle (10%Imax): 33.6(°)	
Rated Power (W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 565.650lm 93.22%	
Rated Voltage (V):	Luminary EER (lm/W): 69.034	Up Lumens&Percent: 41.163lm 6.78%	
Tested Power (W): 8.790	Max. Candela (cd): 4073.481	S/MH: C0_a180=0.313 C90_270=0.311	
Lamps' Inside: 1	Max Cand@Ang. (°): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf): 220.2, 0.073, 0.542	Beam Angle (50%Imax): 18.2(°)	ErP Φ use (90°): 532.607lm	
Lamp Size (W*L*H): 0.075m*0.075m*0.000m	Left=-8.6°, Right=9.6°	IRF (%): 1604.000	



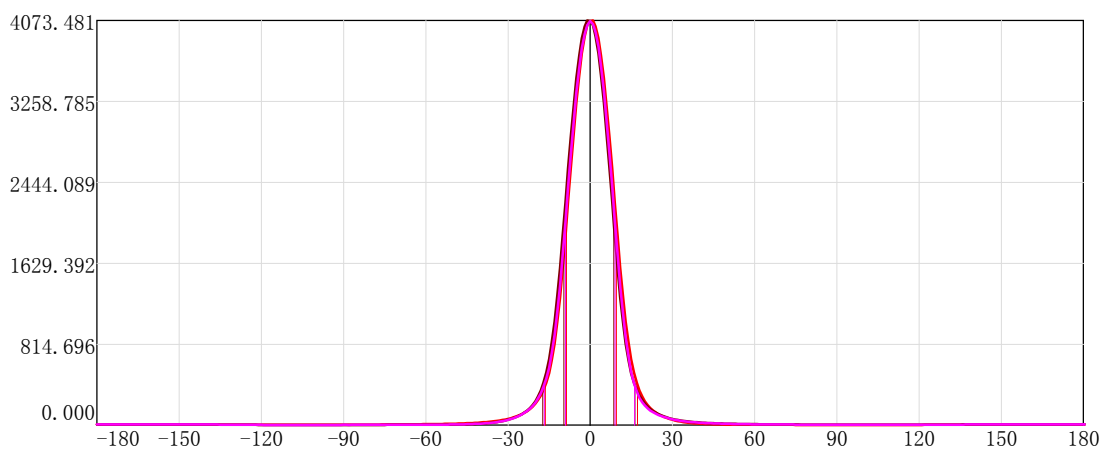
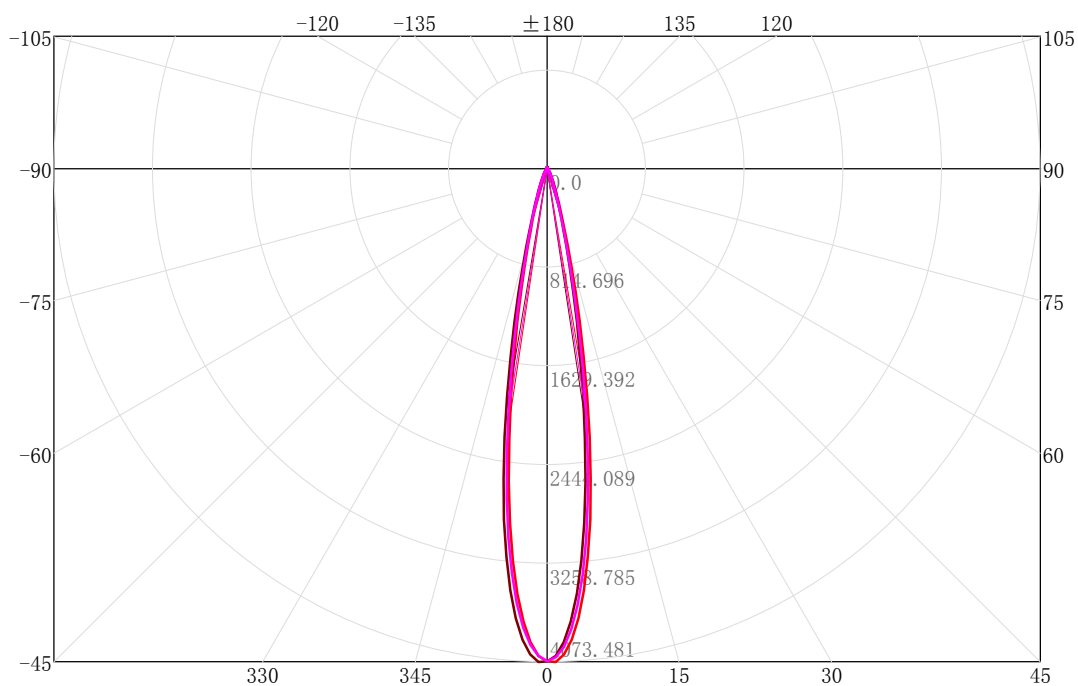
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2D Plane Light Intensity Distribution Curve

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

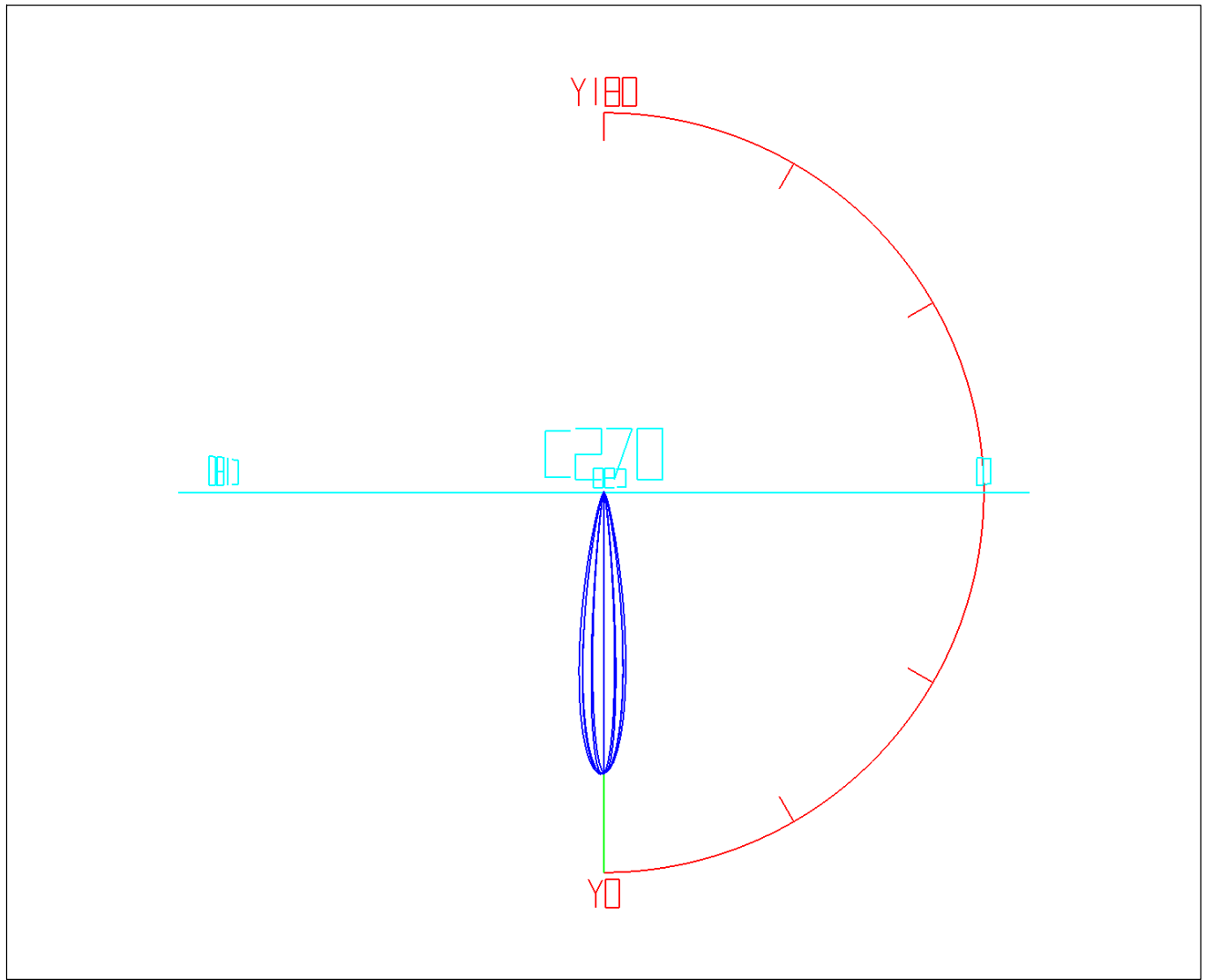
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3D Light Intensity Distribution Modal

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	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

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Zonal Flux Tabulation - (Cont.)

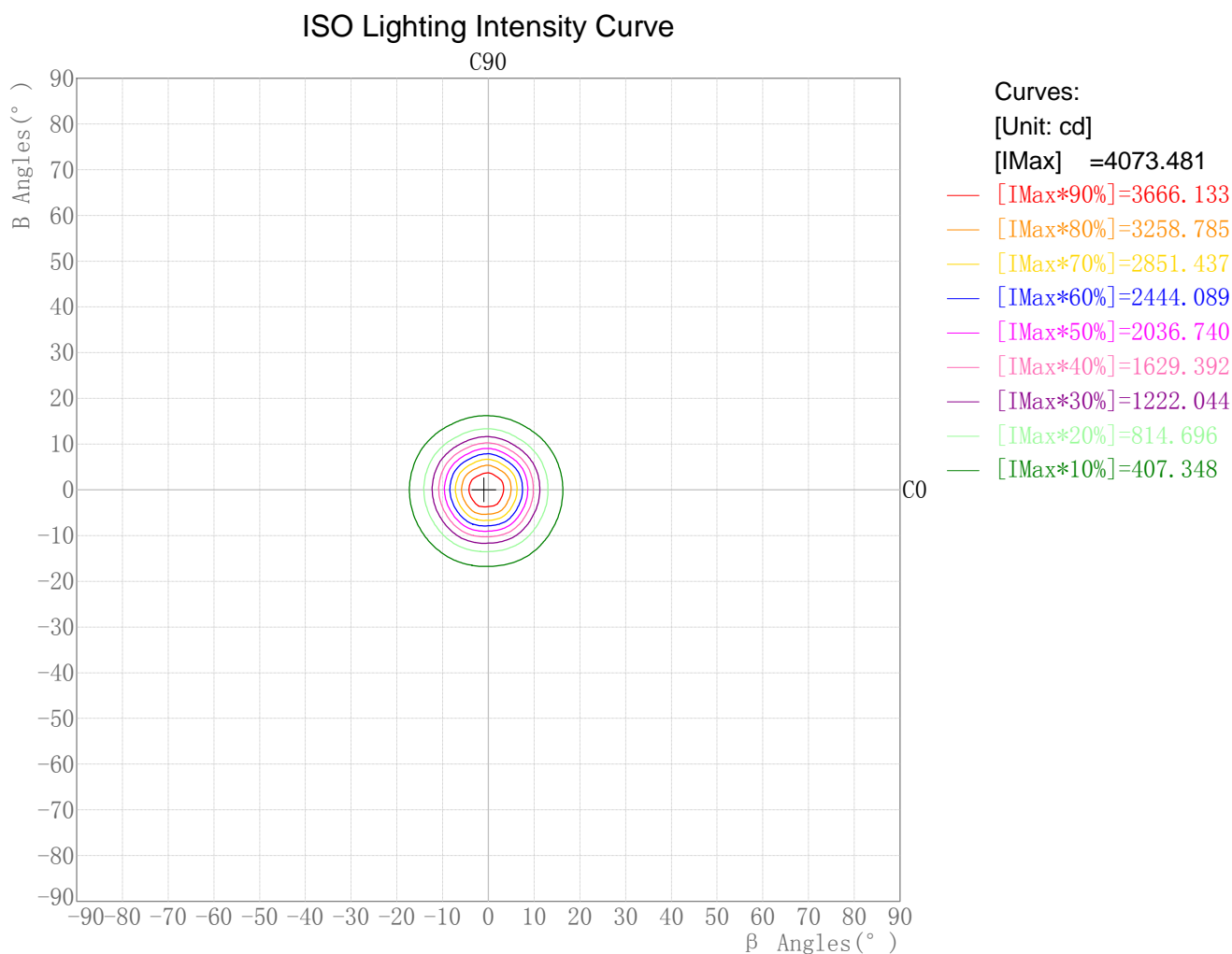
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.55	568.48	0.09	93.68	141.0-142.0	0.62	593.99	0.10	97.89
95.0-96.0	0.55	569.03	0.09	93.77	142.0-143.0	0.62	594.61	0.10	97.99
96.0-97.0	0.55	569.58	0.09	93.86	143.0-144.0	0.61	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					

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

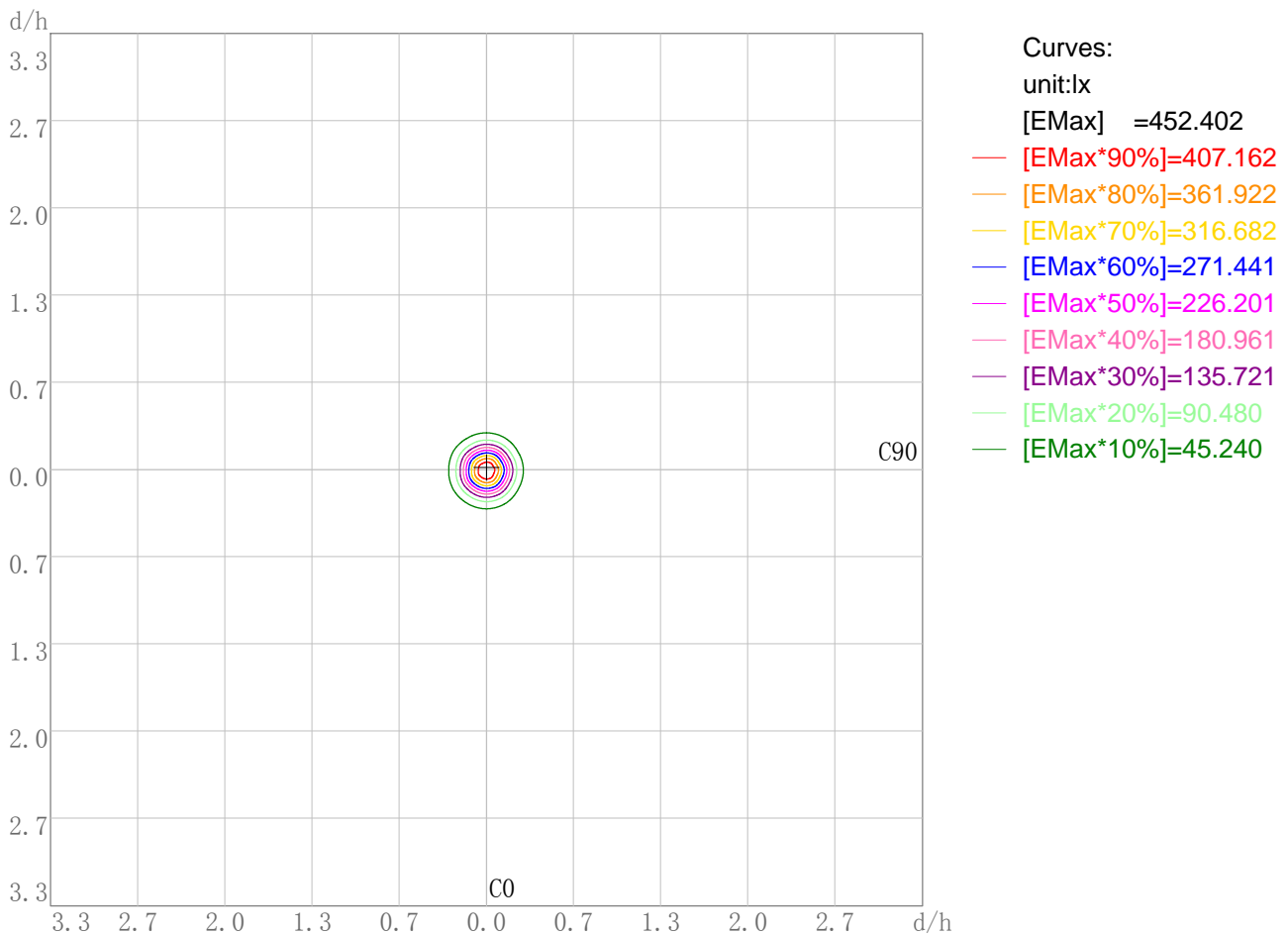
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Plane ISO-Illuminance Diagram

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



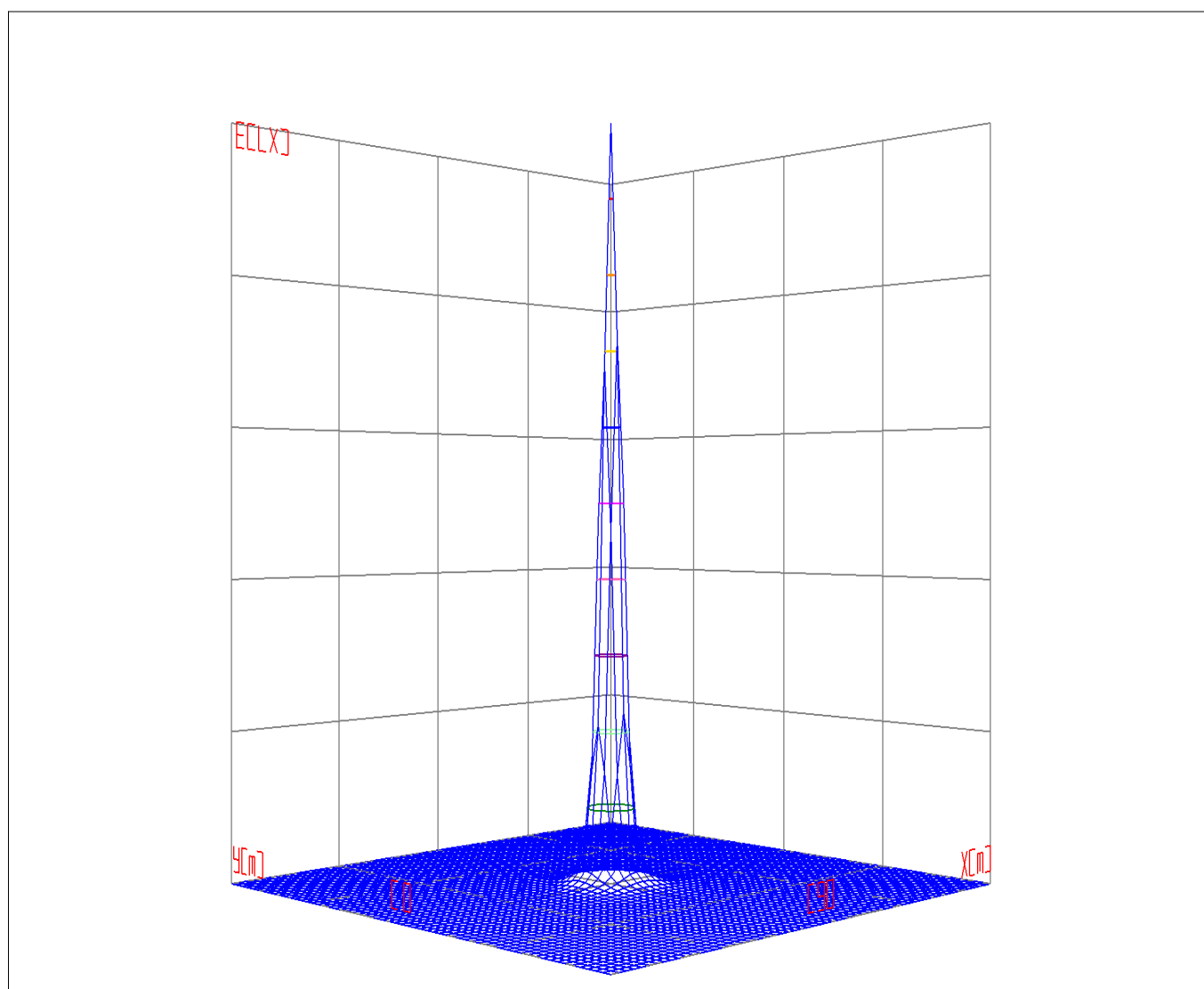
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3D Plane ISO Illuminance Diagram

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

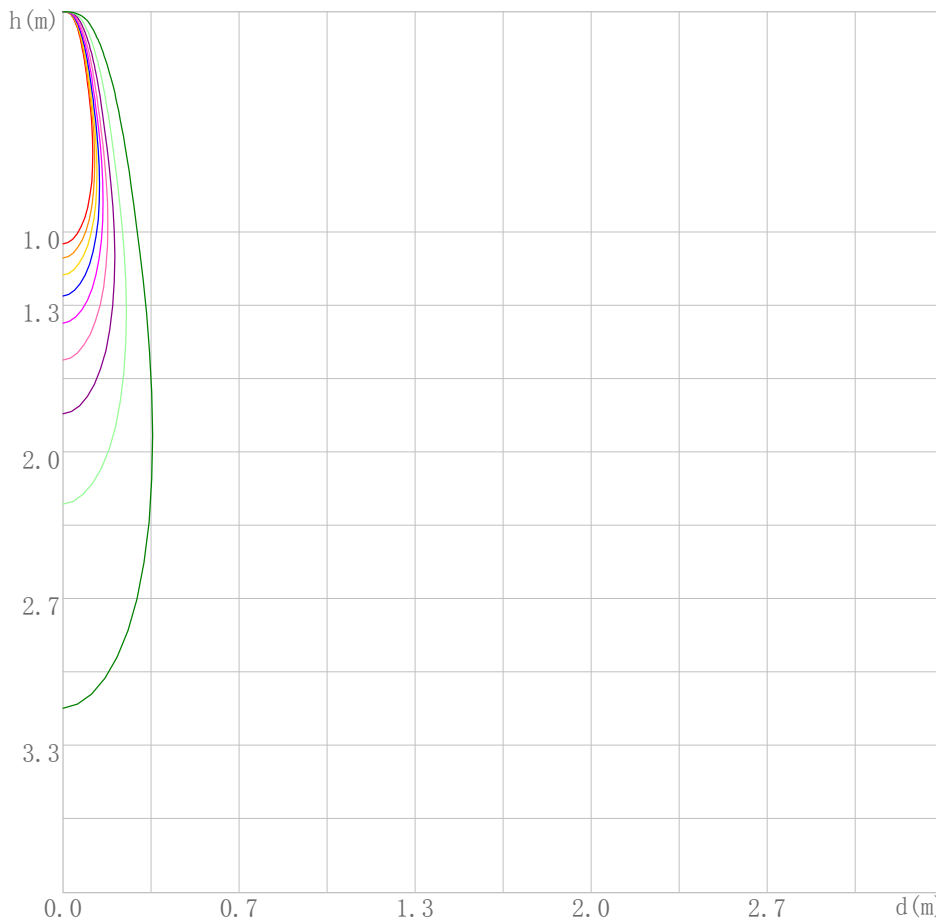
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Space ISO Illuminance Diagram

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] =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

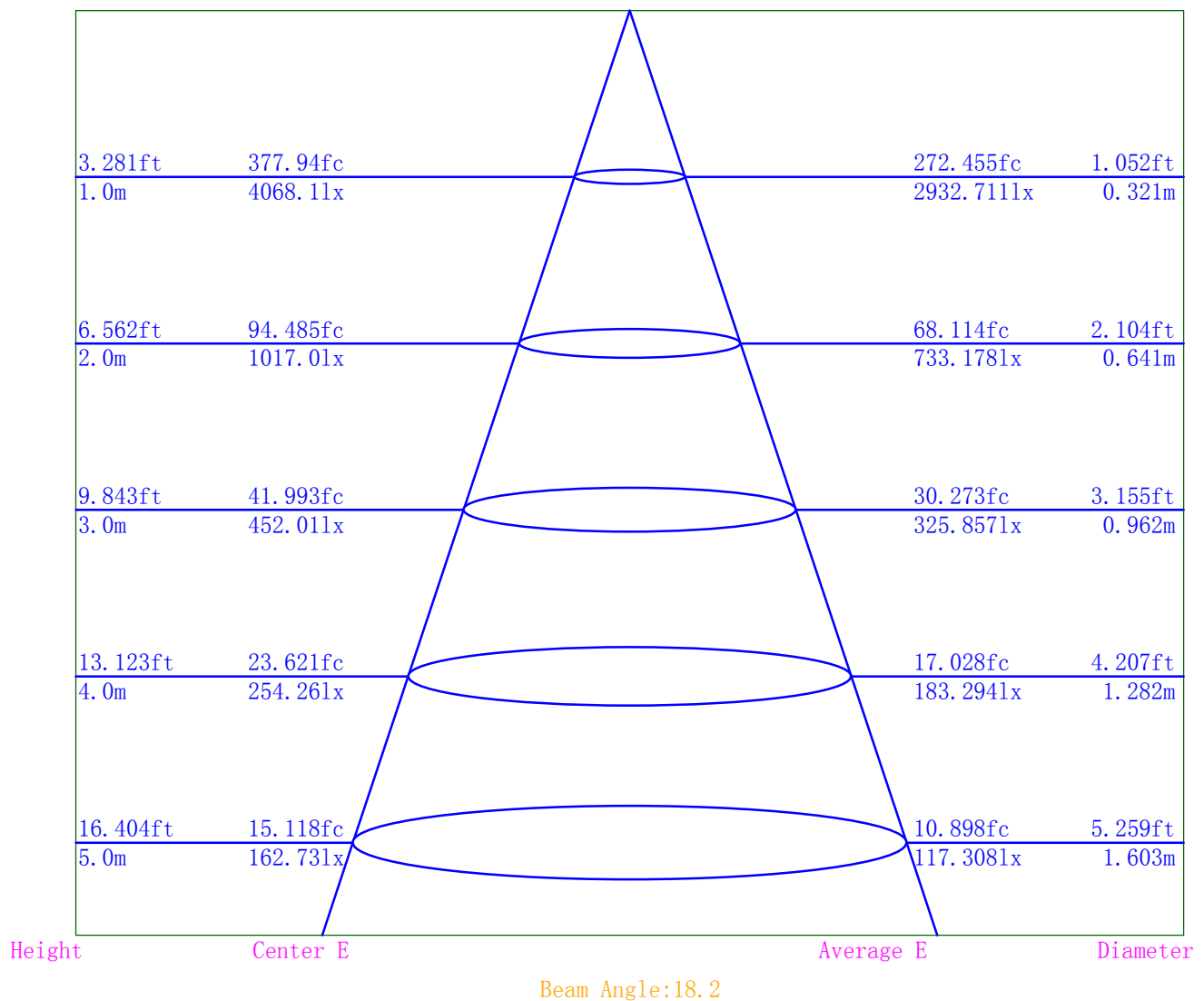
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Illuminance-Distance Diagram

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

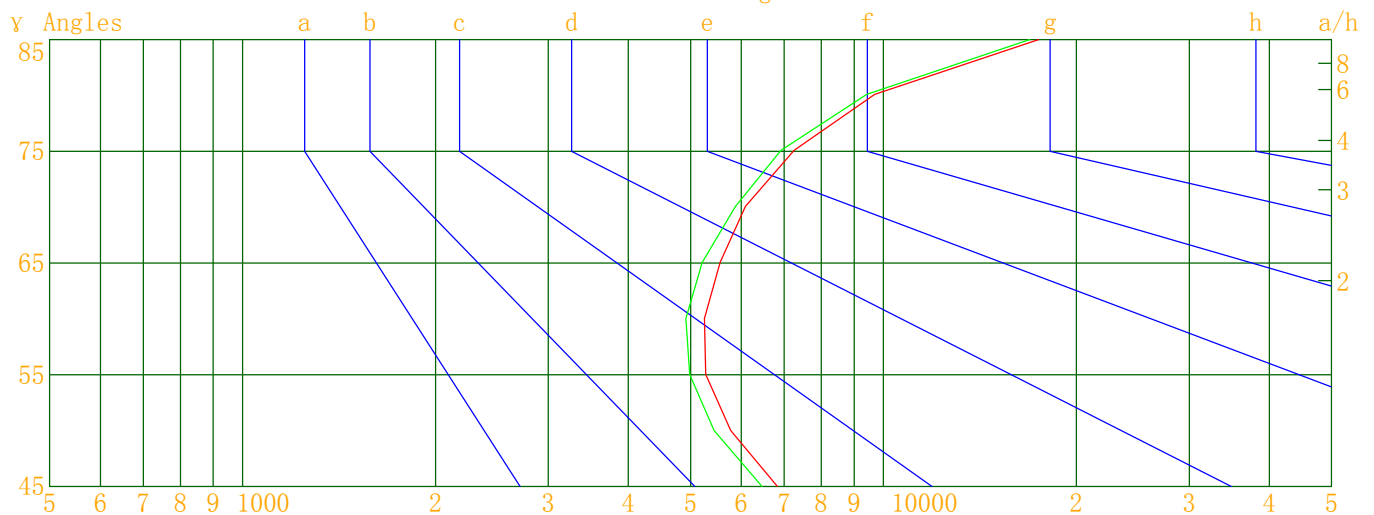
Glare Grade Table

GI	Quality	Using Illuminance							
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



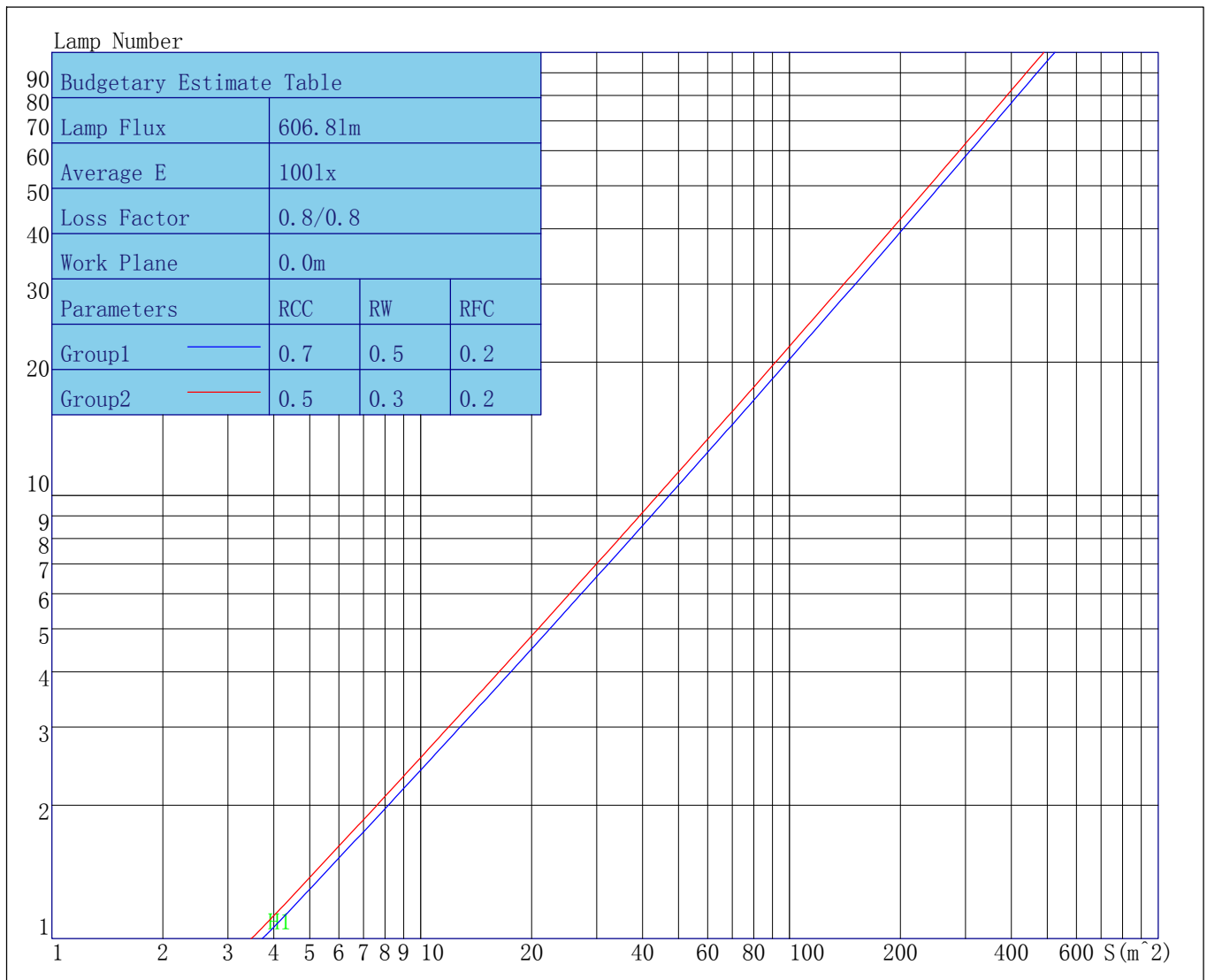
Luminous Size: Length(m)=-0.075 Width(m)=-0.075 Height(m)=0.000 Area(m²)=0.004418
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

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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	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