

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .IES

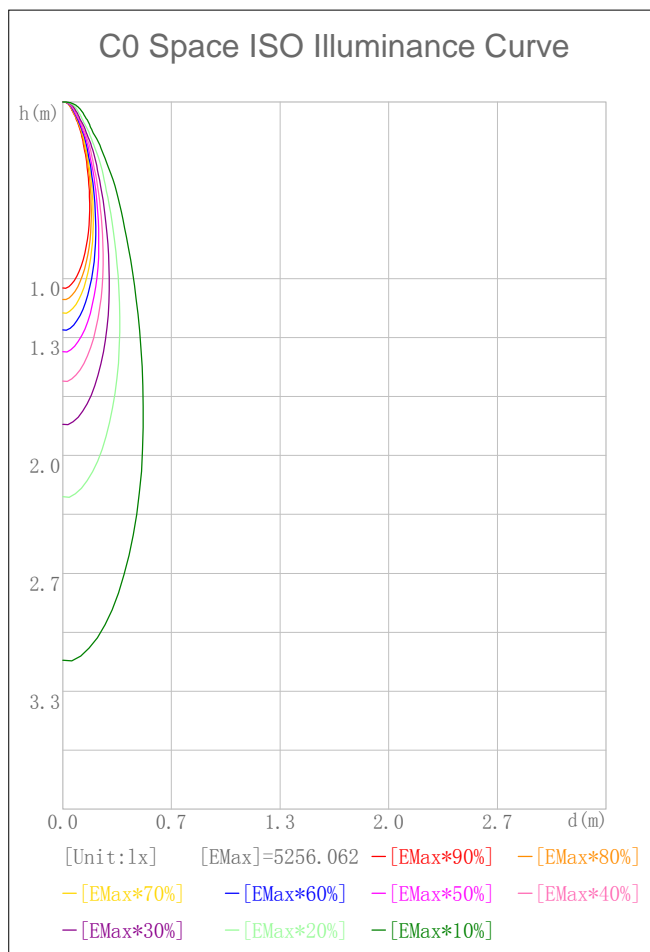
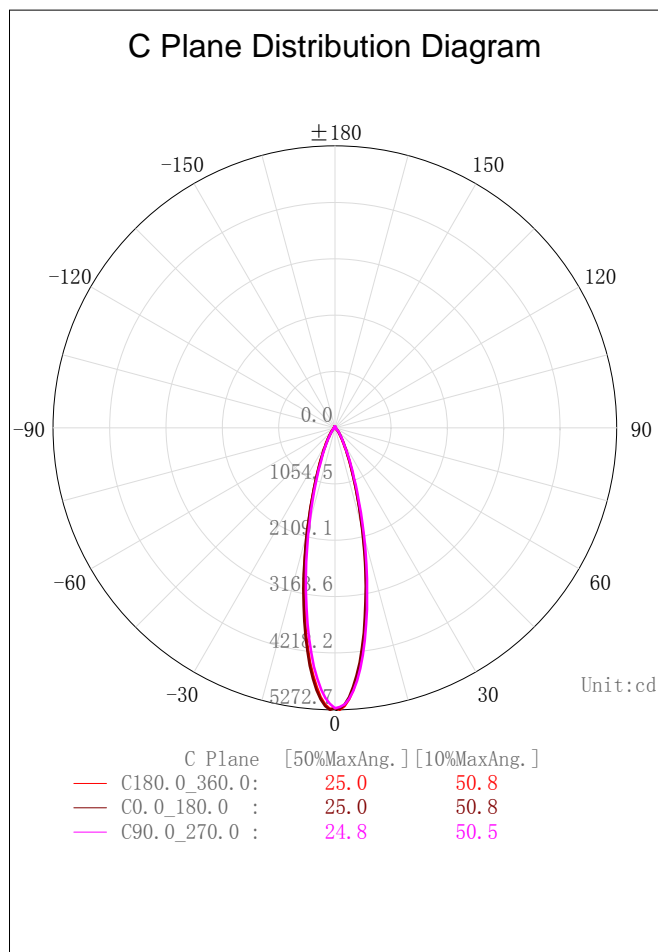
Indoor Luminaire Photometric Data

Description Information

Luminaire 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): 0.115m*0.115m*0.000m	Lum. Area (m2): 0.010	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): 1487.060	Luminaire Flux(lm): 1487.058	Field Angle(10%Imax): 50.8(°)	
Rated Power(W):	Luminaire Efficiency: 100.00%	Down Lumens&Percent: 1411.747lm 94.94%	
Rated Voltage(V):	Luminaire EER(lm/W): 72.433	Up Lumens&Percent: 75.310lm 5.06%	
Tested Power(W): 20.530	Max. Candela(cd): 5272.714	S/MH: C0_a180=0.422 C90_270=0.416	
Lamps' Inside: 1	Max Cand@Ang.(°): C=180.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf): 220.0, 0.095, 0.978	Beam Angle(50%Imax): 25.0(°)	ErP Φ use(90°): 1338.226lm	
Lamp Size (W*L*H): 0.115m*0.115m*0.000m	Left=-12.4°, Right=12.6°	IRF (%): 802.289	



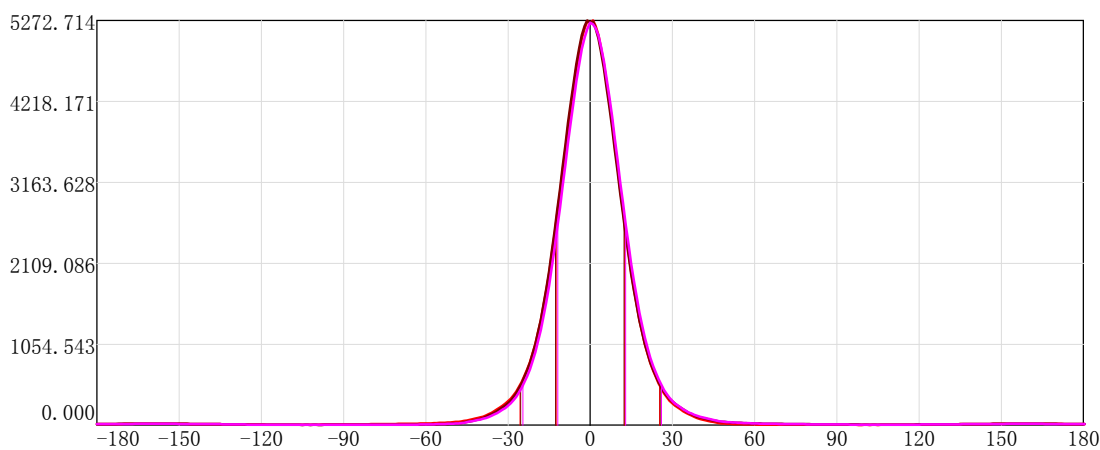
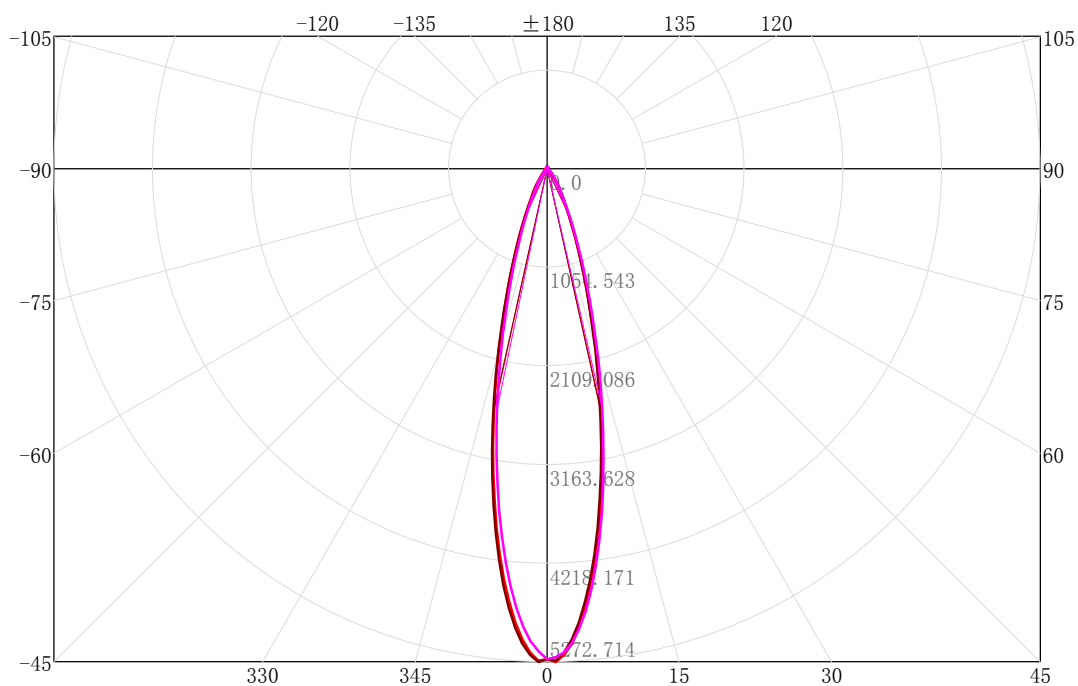
IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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:	25.0	50.8	
—	C0.0_180.0 :	25.0	50.8	
—	C90.0_270.0 :	24.8	50.5	

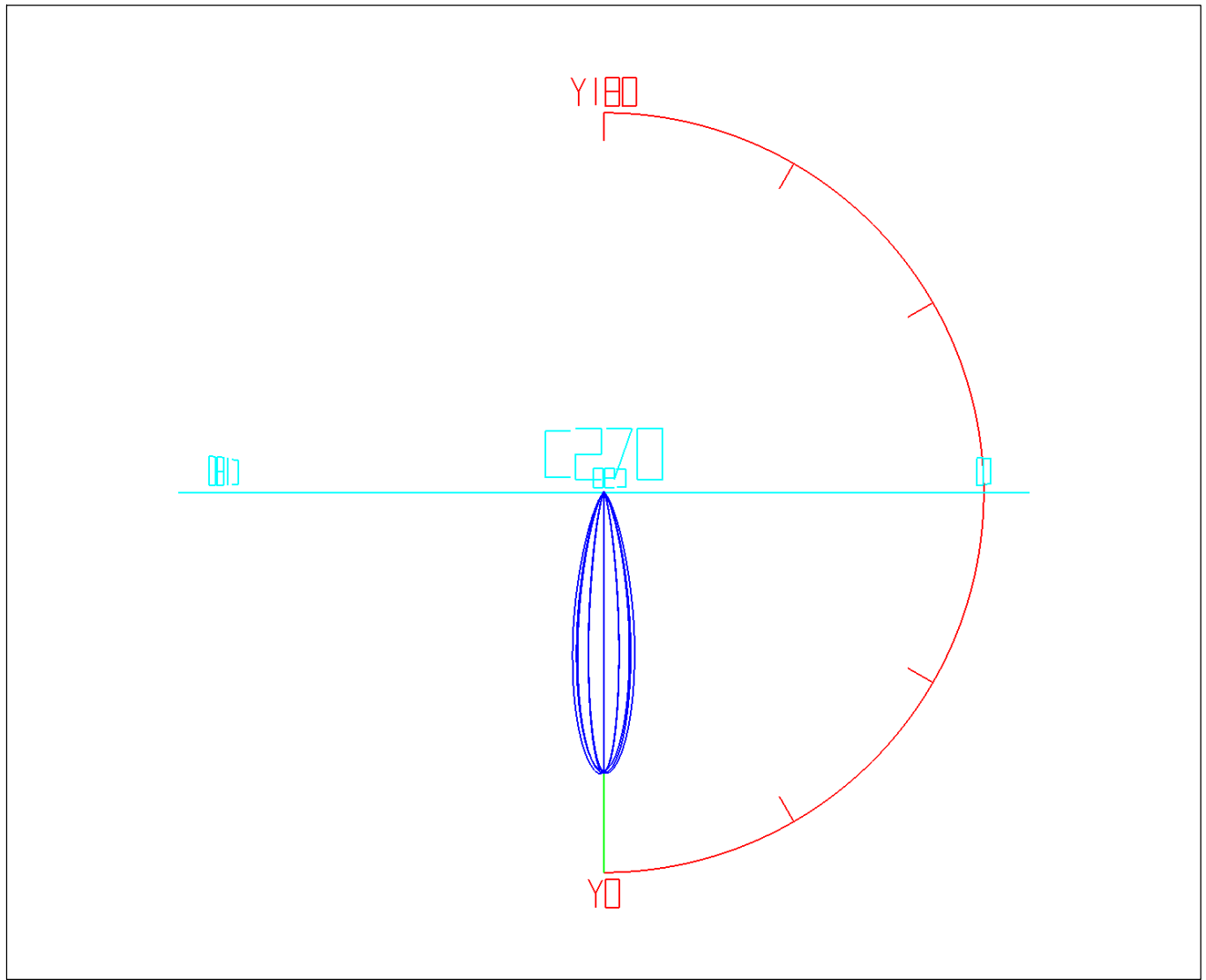
IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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 20W .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	5.00	5.00	0.34	0.34	47.0-48.0	3.17	1345.92	0.21	90.51
1.0-2.0	14.84	19.84	1.00	1.33	48.0-49.0	2.92	1348.84	0.20	90.71
2.0-3.0	24.25	44.09	1.63	2.96	49.0-50.0	2.74	1351.58	0.18	90.89
3.0-4.0	32.94	77.03	2.22	5.18	50.0-51.0	2.60	1354.18	0.17	91.06
4.0-5.0	40.72	117.75	2.74	7.92	51.0-52.0	2.48	1356.66	0.17	91.23
5.0-6.0	47.42	165.17	3.19	11.11	52.0-53.0	2.36	1359.02	0.16	91.39
6.0-7.0	52.95	218.12	3.56	14.67	53.0-54.0	2.26	1361.28	0.15	91.54
7.0-8.0	57.26	275.38	3.85	18.52	54.0-55.0	2.16	1363.45	0.15	91.69
8.0-9.0	60.33	335.70	4.06	22.58	55.0-56.0	2.07	1365.52	0.14	91.83
9.0-10.0	62.20	397.90	4.18	26.76	56.0-57.0	1.97	1367.49	0.13	91.96
10.0-11.0	62.98	460.88	4.24	30.99	57.0-58.0	1.86	1369.35	0.13	92.08
11.0-12.0	62.80	523.69	4.22	35.22	58.0-59.0	1.76	1371.11	0.12	92.20
12.0-13.0	61.75	585.43	4.15	39.37	59.0-60.0	1.69	1372.80	0.11	92.32
13.0-14.0	59.90	645.33	4.03	43.40	60.0-61.0	1.66	1374.46	0.11	92.43
14.0-15.0	57.37	702.70	3.86	47.25	61.0-62.0	1.63	1376.09	0.11	92.54
15.0-16.0	54.35	757.05	3.65	50.91	62.0-63.0	1.60	1377.69	0.11	92.64
16.0-17.0	51.04	808.10	3.43	54.34	63.0-64.0	1.57	1379.26	0.11	92.75
17.0-18.0	47.63	855.73	3.20	57.55	64.0-65.0	1.55	1380.81	0.10	92.85
18.0-19.0	44.22	899.95	2.97	60.52	65.0-66.0	1.52	1382.33	0.10	92.96
19.0-20.0	40.88	940.83	2.75	63.27	66.0-67.0	1.50	1383.83	0.10	93.06
20.0-21.0	37.61	978.44	2.53	65.80	67.0-68.0	1.47	1385.30	0.10	93.16
21.0-22.0	34.50	1012.95	2.32	68.12	68.0-69.0	1.45	1386.75	0.10	93.25
22.0-23.0	31.61	1044.56	2.13	70.24	69.0-70.0	1.42	1388.17	0.10	93.35
23.0-24.0	28.93	1073.49	1.95	72.19	70.0-71.0	1.39	1389.56	0.09	93.44
24.0-25.0	26.39	1099.88	1.77	73.96	71.0-72.0	1.37	1390.93	0.09	93.54
25.0-26.0	23.98	1123.86	1.61	75.58	72.0-73.0	1.34	1392.28	0.09	93.63
26.0-27.0	21.75	1145.61	1.46	77.04	73.0-74.0	1.32	1393.59	0.09	93.71
27.0-28.0	19.77	1165.38	1.33	78.37	74.0-75.0	1.29	1394.89	0.09	93.80
28.0-29.0	18.06	1183.44	1.21	79.58	75.0-76.0	1.27	1396.16	0.09	93.89
29.0-30.0	16.60	1200.04	1.12	80.70	76.0-77.0	1.25	1397.40	0.08	93.97
30.0-31.0	15.35	1215.39	1.03	81.73	77.0-78.0	1.22	1398.63	0.08	94.05
31.0-32.0	14.22	1229.61	0.96	82.69	78.0-79.0	1.20	1399.83	0.08	94.13
32.0-33.0	13.13	1242.75	0.88	83.57	79.0-80.0	1.18	1401.01	0.08	94.21
33.0-34.0	12.07	1254.82	0.81	84.38	80.0-81.0	1.16	1402.17	0.08	94.29
34.0-35.0	11.05	1265.87	0.74	85.13	81.0-82.0	1.14	1403.30	0.08	94.37
35.0-36.0	10.08	1275.95	0.68	85.80	82.0-83.0	1.12	1404.42	0.08	94.44
36.0-37.0	9.19	1285.14	0.62	86.42	83.0-84.0	1.10	1405.52	0.07	94.52
37.0-38.0	8.37	1293.51	0.56	86.98	84.0-85.0	1.08	1406.60	0.07	94.59
38.0-39.0	7.62	1301.13	0.51	87.50	85.0-86.0	1.06	1407.66	0.07	94.66
39.0-40.0	6.96	1308.09	0.47	87.96	86.0-87.0	1.05	1408.71	0.07	94.73
40.0-41.0	6.38	1314.47	0.43	88.39	87.0-88.0	1.03	1409.74	0.07	94.80
41.0-42.0	5.87	1320.34	0.39	88.79	88.0-89.0	1.01	1410.75	0.07	94.87
42.0-43.0	5.41	1325.75	0.36	89.15	89.0-90.0	1.00	1411.75	0.07	94.94
43.0-44.0	4.97	1330.72	0.33	89.49	90.0-91.0	0.98	1412.73	0.07	95.00
44.0-45.0	4.50	1335.22	0.30	89.79	91.0-92.0	0.97	1413.70	0.07	95.07
45.0-46.0	4.00	1339.22	0.27	90.06	92.0-93.0	0.95	1414.65	0.06	95.13
46.0-47.0	3.53	1342.75	0.24	90.30	93.0-94.0	0.94	1415.59	0.06	95.19

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .IES

Zonal Flux Tabulation - (Cont.)

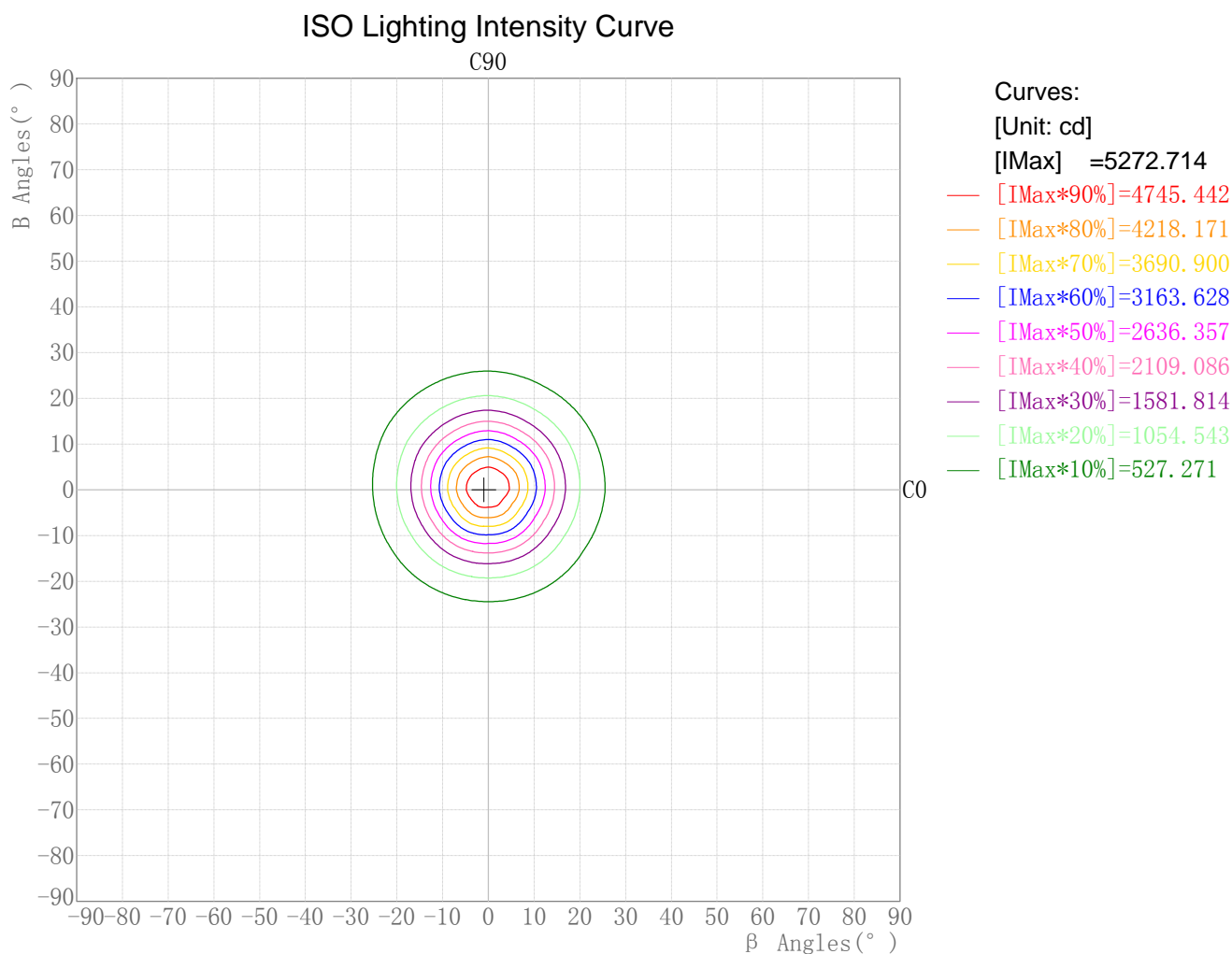
Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.93	1416.53	0.06	95.26	141.0-142.0	1.17	1461.87	0.08	98.31
95.0-96.0	0.92	1417.45	0.06	95.32	142.0-143.0	1.17	1463.04	0.08	98.38
96.0-97.0	0.91	1418.36	0.06	95.38	143.0-144.0	1.16	1464.20	0.08	98.46
97.0-98.0	0.90	1419.26	0.06	95.44	144.0-145.0	1.15	1465.35	0.08	98.54
98.0-99.0	0.89	1420.16	0.06	95.50	145.0-146.0	1.14	1466.49	0.08	98.62
99.0-100.0	0.89	1421.04	0.06	95.56	146.0-147.0	1.12	1467.61	0.08	98.69
100.0-101.0	0.88	1421.92	0.06	95.62	147.0-148.0	1.10	1468.71	0.07	98.77
101.0-102.0	0.87	1422.80	0.06	95.68	148.0-149.0	1.08	1469.79	0.07	98.84
102.0-103.0	0.87	1423.67	0.06	95.74	149.0-150.0	1.06	1470.85	0.07	98.91
103.0-104.0	0.86	1424.53	0.06	95.80	150.0-151.0	1.04	1471.89	0.07	98.98
104.0-105.0	0.86	1425.39	0.06	95.85	151.0-152.0	1.01	1472.90	0.07	99.05
105.0-106.0	0.85	1426.25	0.06	95.91	152.0-153.0	0.98	1473.88	0.07	99.11
106.0-107.0	0.85	1427.09	0.06	95.97	153.0-154.0	0.95	1474.83	0.06	99.18
107.0-108.0	0.85	1427.94	0.06	96.02	154.0-155.0	0.92	1475.76	0.06	99.24
108.0-109.0	0.85	1428.79	0.06	96.08	155.0-156.0	0.89	1476.65	0.06	99.30
109.0-110.0	0.85	1429.63	0.06	96.14	156.0-157.0	0.86	1477.50	0.06	99.36
110.0-111.0	0.85	1430.48	0.06	96.20	157.0-158.0	0.82	1478.33	0.06	99.41
111.0-112.0	0.85	1431.33	0.06	96.25	158.0-159.0	0.79	1479.12	0.05	99.47
112.0-113.0	0.85	1432.18	0.06	96.31	159.0-160.0	0.75	1479.87	0.05	99.52
113.0-114.0	0.86	1433.04	0.06	96.37	160.0-161.0	0.72	1480.59	0.05	99.56
114.0-115.0	0.86	1433.90	0.06	96.43	161.0-162.0	0.68	1481.27	0.05	99.61
115.0-116.0	0.86	1434.76	0.06	96.48	162.0-163.0	0.64	1481.91	0.04	99.65
116.0-117.0	0.87	1435.63	0.06	96.54	163.0-164.0	0.60	1482.51	0.04	99.69
117.0-118.0	0.88	1436.51	0.06	96.60	164.0-165.0	0.57	1483.08	0.04	99.73
118.0-119.0	0.89	1437.40	0.06	96.66	165.0-166.0	0.53	1483.60	0.04	99.77
119.0-120.0	0.90	1438.30	0.06	96.72	166.0-167.0	0.49	1484.09	0.03	99.80
120.0-121.0	0.91	1439.22	0.06	96.78	167.0-168.0	0.45	1484.54	0.03	99.83
121.0-122.0	0.93	1440.14	0.06	96.84	168.0-169.0	0.41	1484.95	0.03	99.86
122.0-123.0	0.94	1441.08	0.06	96.91	169.0-170.0	0.37	1485.33	0.03	99.88
123.0-124.0	0.95	1442.04	0.06	96.97	170.0-171.0	0.33	1485.66	0.02	99.91
124.0-125.0	0.97	1443.01	0.07	97.04	171.0-172.0	0.30	1485.96	0.02	99.93
125.0-126.0	0.99	1443.99	0.07	97.10	172.0-173.0	0.26	1486.22	0.02	99.94
126.0-127.0	1.01	1445.00	0.07	97.17	173.0-174.0	0.22	1486.44	0.02	99.96
127.0-128.0	1.02	1446.03	0.07	97.24	174.0-175.0	0.19	1486.63	0.01	99.97
128.0-129.0	1.04	1447.07	0.07	97.31	175.0-176.0	0.15	1486.79	0.01	99.98
129.0-130.0	1.06	1448.13	0.07	97.38	176.0-177.0	0.12	1486.90	0.01	99.99
130.0-131.0	1.08	1449.21	0.07	97.45	177.0-178.0	0.09	1486.99	0.01	100.00
131.0-132.0	1.10	1450.30	0.07	97.53	178.0-179.0	0.05	1487.04	0.00	100.00
132.0-133.0	1.11	1451.42	0.07	97.60	179.0-180.0	0.02	1487.06	0.00	100.00
133.0-134.0	1.13	1452.54	0.08	97.68					
134.0-135.0	1.14	1453.68	0.08	97.76					
135.0-136.0	1.15	1454.83	0.08	97.83					
136.0-137.0	1.16	1456.00	0.08	97.91					
137.0-138.0	1.17	1457.16	0.08	97.99					
138.0-139.0	1.17	1458.34	0.08	98.07					
139.0-140.0	1.18	1459.51	0.08	98.15					
140.0-141.0	1.18	1460.69	0.08	98.23					

IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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): 5272.71
 Maximum Cand.@Angle: H=-1.0°;V=0.0°

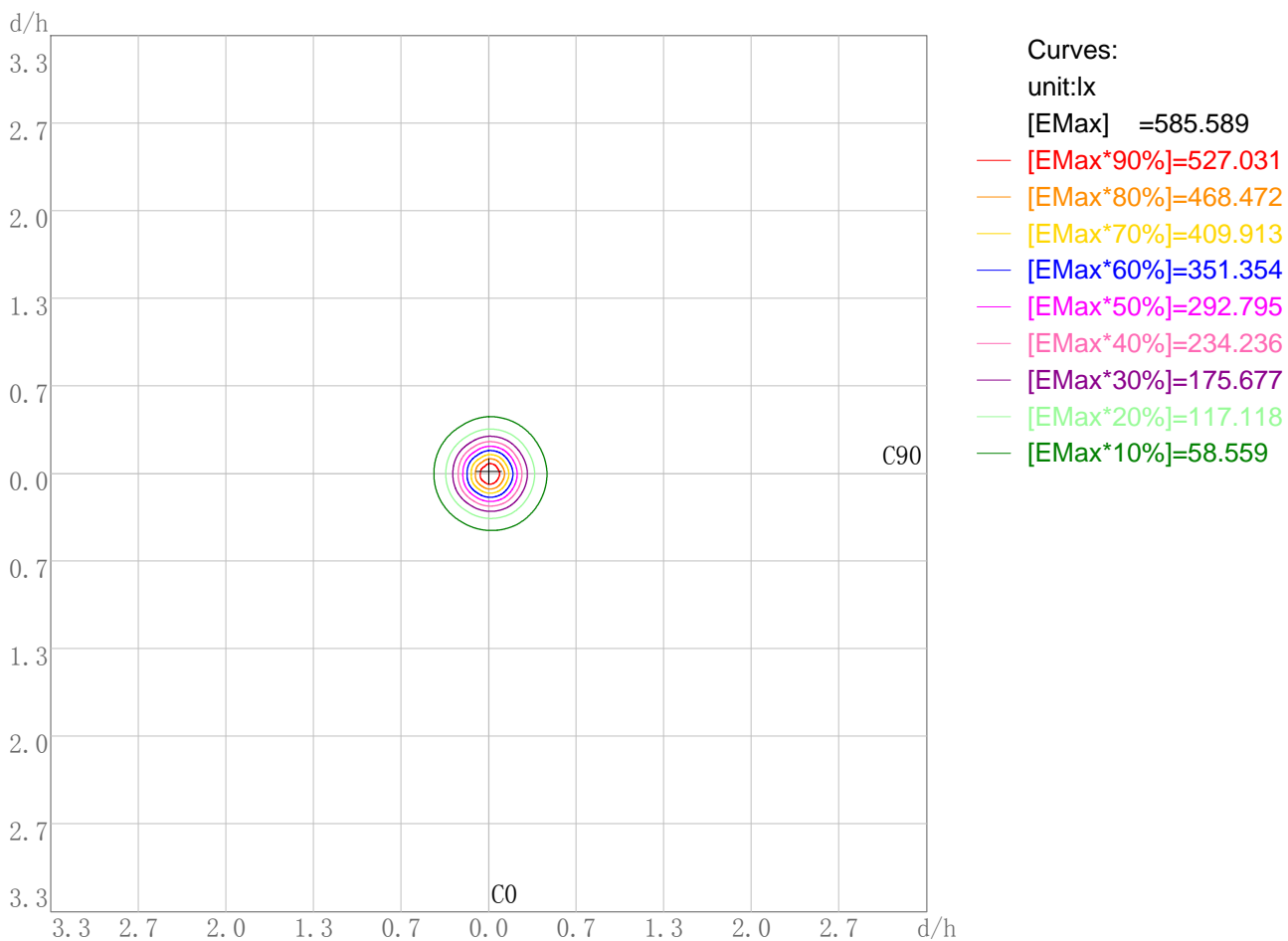
IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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



Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 585.59
 Working Plane Maximum Illuminance Position(d/h): H0.0 V-0.0

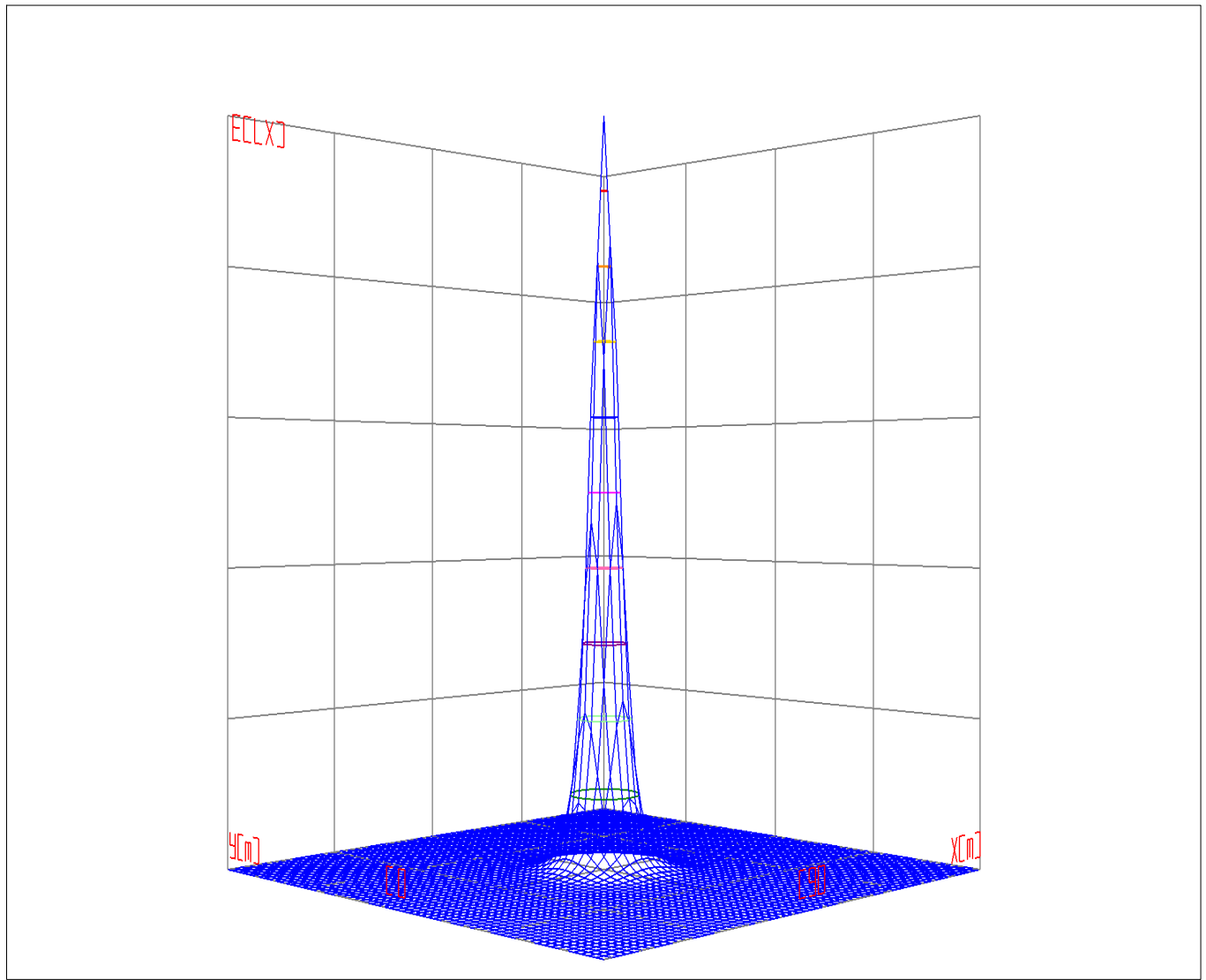
IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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

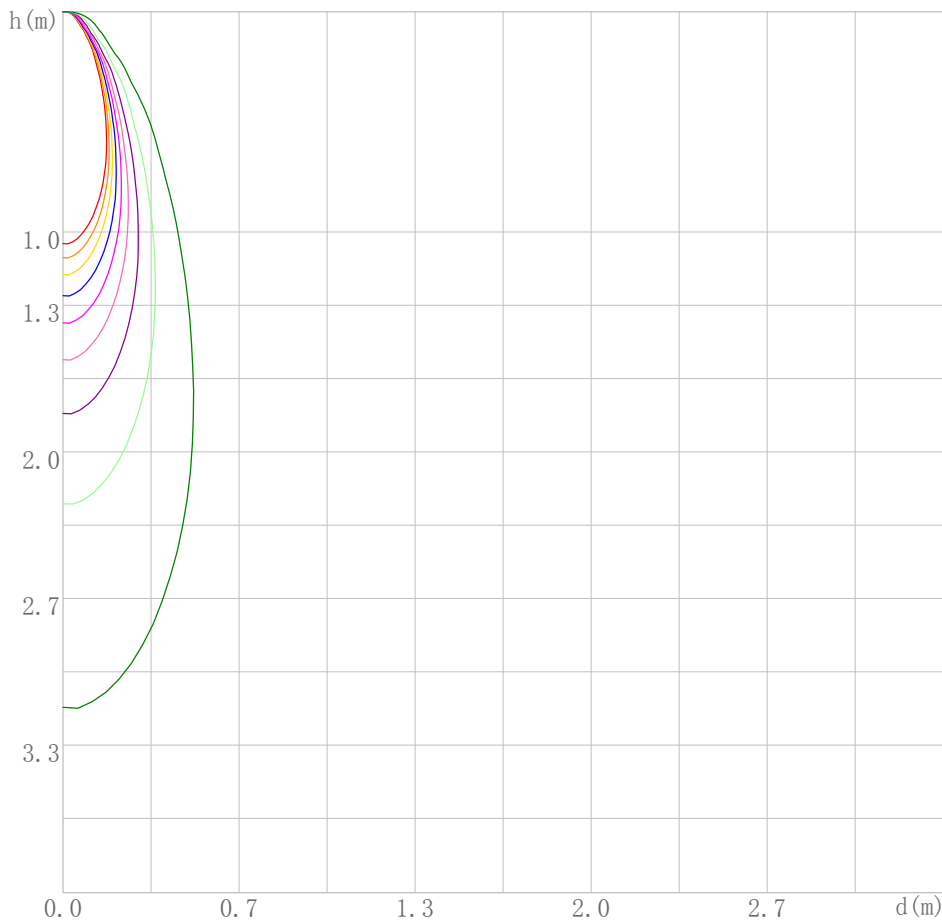
IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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] =5256.062
- [EMax*90%]=4730.455
 - [EMax*80%]=4204.849
 - [EMax*70%]=3679.243
 - [EMax*60%]=3153.637
 - [EMax*50%]=2628.031
 - [EMax*40%]=2102.425
 - [EMax*30%]=1576.818
 - [EMax*20%]=1051.212
 - [EMax*10%]=525.606

Space Plane Maximum Illuminance and @Angle:5256.06lx,1.0deg
Plane Maximum Lighting Intensity and @Angle:5258.464cd,0deg

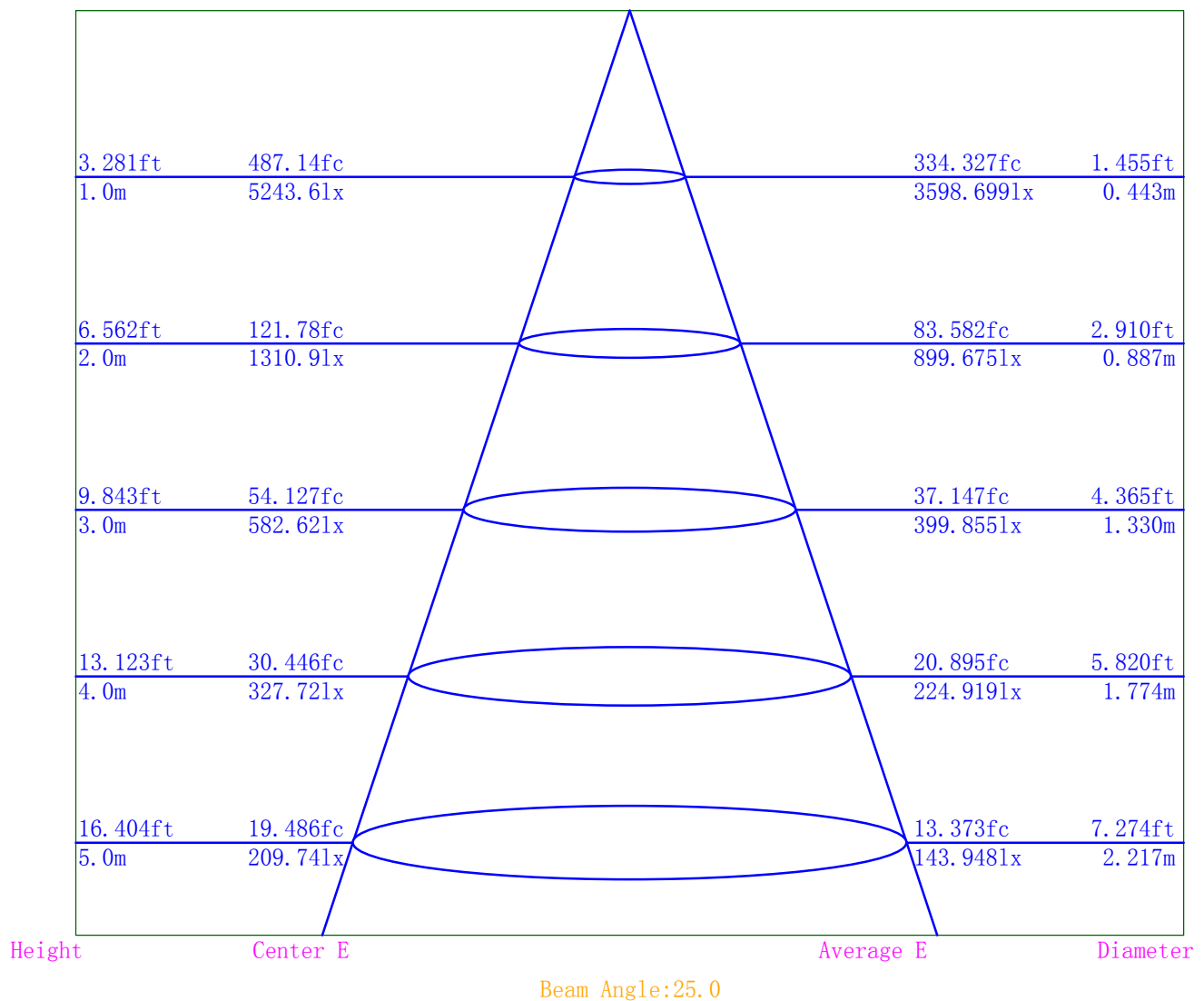
IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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 20W .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

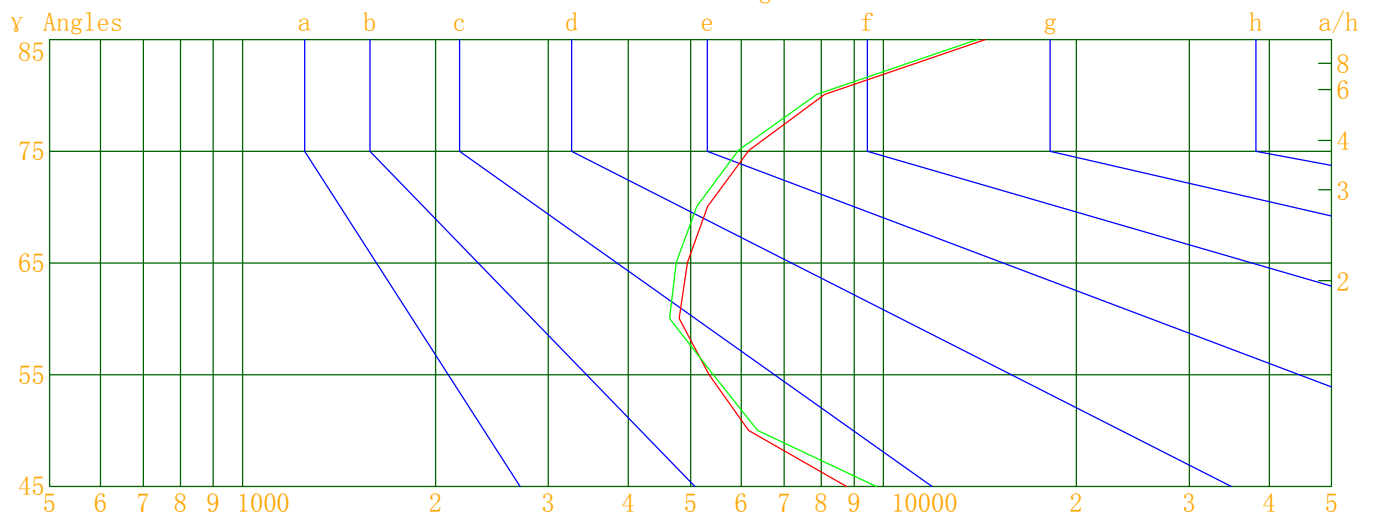
Glare Grade Table

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	8755	6163	5341	4800	4948	5320	6167	8096	14404
C90	9745	6363	5421	4637	4748	5114	5938	7871	13994

Luminance Limiting Curve



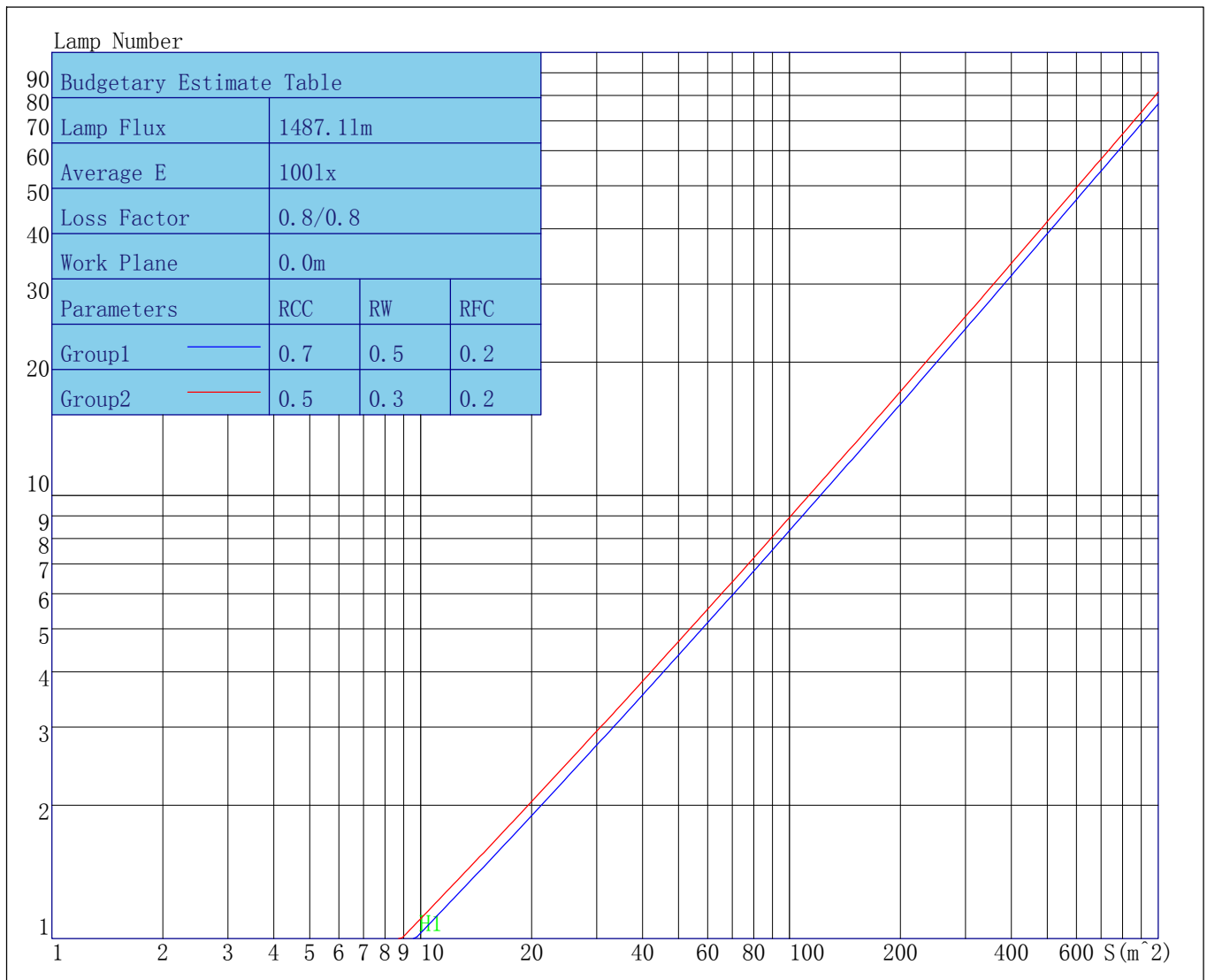
Luminous Size: Length(m)=-0.115 Width(m)=-0.115 Height(m)=0.000 Area(m²)=0.010387
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename: Spot lamp Prolight 3000K White 15度 20W .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 20W .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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	113	110	108	105	110	107	105	103	102	101	99	98	97	95	94	93	92	90
2	108	103	100	97	105	101	98	95	97	95	92	93	91	90	90	88	87	85
3	103	98	93	90	101	96	92	89	93	89	87	90	87	85	87	85	83	81
4	99	93	88	84	97	91	87	83	89	85	82	86	83	80	84	81	79	77
5	95	88	83	80	94	87	82	79	85	81	78	83	79	77	81	78	76	74
6	92	84	79	76	90	83	79	75	81	77	74	80	76	73	78	75	73	71
7	89	81	76	72	87	80	75	72	78	74	71	77	73	71	75	72	70	69
8	86	78	73	69	84	77	72	69	76	71	68	74	71	68	73	70	67	66
9	83	75	70	67	82	74	70	66	73	69	66	72	68	65	71	67	65	64
10	80	72	67	64	79	72	67	64	71	66	64	69	66	63	69	65	63	62

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	12.9	13.8	13.3	14.2	14.7	13.8	14.7	14.2	15.1	15.6
Y=3H	13.8	14.7	14.3	15.1	15.6	14.7	15.5	15.1	15.9	16.4
Y=4H	14.6	15.3	15.1	15.8	16.3	15.3	16.1	15.8	16.5	17.0
Y=6H	15.5	16.2	16.1	16.7	17.2	16.1	16.8	16.6	17.3	17.8
Y=8H	16.2	16.8	16.7	17.3	17.8	16.6	17.3	17.2	17.8	18.3
Y=12H	16.9	17.5	17.4	18.0	18.6	17.3	17.9	17.8	18.4	19.0
X=4H Y=2H	12.9	13.7	13.4	14.2	14.7	14.0	14.7	14.5	15.2	15.7
Y=3H	14.2	14.8	14.7	15.3	15.8	15.1	15.8	15.7	16.3	16.8
Y=4H	15.1	15.6	15.6	16.2	16.7	16.0	16.6	16.5	17.1	17.7
Y=6H	16.3	16.8	16.9	17.4	17.9	17.1	17.6	17.7	18.2	18.7
Y=8H	17.1	17.5	17.7	18.1	18.7	17.8	18.2	18.4	18.8	19.4
Y=12H	18.0	18.4	18.6	19.0	19.6	18.6	19.0	19.2	19.6	20.2
X=8H Y=4H	15.3	15.8	15.9	16.3	16.9	16.4	16.8	16.9	17.4	17.9
Y=6H	16.8	17.2	17.4	17.8	18.4	17.8	18.1	18.4	18.7	19.4
Y=8H	17.7	18.1	18.4	18.7	19.3	18.6	19.0	19.3	19.6	20.2
Y=12H	19.0	19.2	19.6	19.8	20.5	19.7	20.0	20.3	20.6	21.3
X=12H Y=4H	15.4	15.8	16.0	16.4	17.0	16.4	16.8	17.0	17.4	18.0
Y=6H	16.9	17.3	17.6	17.8	18.5	17.9	18.3	18.6	18.8	19.5
Y=8H	18.0	18.3	18.6	18.8	19.5	19.0	19.2	19.6	19.8	20.5
Variations with the objverer position at spacings										
S=1.0H	0.0/-0.1					0.1/-0.1				
S=1.5H	0.1/-0.2					0.1/-0.1				
S=2.0H	0.1/-0.2					0.1/-0.1				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	3.8					3.8				

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 15度 20W .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	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57	5243.57
Y 1.0	5258.46	5243.21	5222.06	5221.11	5210.43	5206.35	5272.71	5214.64	5194.72	5159.44	5163.44	5145.84
Y 2.0	5172.05	5179.60	5154.95	5173.73	5154.62	5158.59	5201.61	5122.11	5105.60	5053.79	5065.65	5041.27
Y 3.0	5038.40	5065.42	5039.20	5074.73	5048.24	5059.24	5081.06	4982.21	4968.43	4901.16	4922.28	4889.23
Y 4.0	4862.44	4907.03	4880.92	4929.45	4898.13	4914.59	4913.67	4795.46	4785.67	4705.31	4734.74	4696.47
Y 5.0	4650.62	4707.91	4682.91	4744.09	4708.01	4730.67	4707.61	4577.26	4569.30	4481.81	4515.51	4474.79
Y 6.0	4411.50	4478.54	4453.03	4525.23	4485.12	4510.72	4472.09	4335.19	4323.88	4233.74	4269.71	4229.58
Y 7.0	4150.15	4224.25	4197.84	4281.32	4236.71	4266.33	4214.06	4070.00	4061.23	3965.72	4007.29	3965.77
Y 8.0	3872.90	3952.78	3926.51	4015.96	3970.64	4002.99	3941.17	3789.72	3784.30	3686.70	3732.43	3690.06
Y 9.0	3587.45	3668.54	3641.90	3736.14	3690.09	3724.92	3656.22	3500.35	3498.51	3399.76	3448.84	3407.43
Y 10.0	3302.11	3381.09	3355.11	3448.90	3407.19	3440.03	3365.15	3207.75	3209.51	3112.97	3163.08	3122.23
Y 11.0	3021.77	3094.34	3072.78	3164.96	3125.97	3157.06	3076.86	2921.63	2924.56	2833.65	2884.03	2846.20
Y 12.0	2746.83	2816.83	2794.46	2887.17	2852.60	2879.79	2795.77	2641.87	2648.08	2565.03	2612.14	2577.04
Y 13.0	2479.21	2547.39	2525.56	2616.96	2585.33	2609.55	2525.81	2376.75	2379.21	2304.10	2349.49	2318.23
Y 14.0	2221.21	2287.50	2266.78	2359.34	2323.29	2348.03	2260.98	2119.42	2124.65	2054.86	2100.25	2070.03
Y 15.0	1977.36	2038.86	2020.69	2109.49	2075.50	2098.58	2010.99	1877.60	1882.73	1820.60	1862.55	1837.37
Y 16.0	1754.01	1807.20	1792.74	1874.81	1845.35	1864.45	1776.98	1653.73	1658.03	1606.52	1642.70	1622.06
Y 17.0	1549.94	1597.35	1583.74	1661.65	1634.23	1649.42	1563.54	1454.44	1455.04	1413.76	1444.40	1428.15
Y 18.0	1368.72	1407.46	1396.24	1468.04	1443.58	1456.45	1373.36	1276.17	1274.23	1242.30	1267.68	1256.89
Y 19.0	1204.62	1238.86	1228.75	1294.16	1273.57	1284.68	1207.55	1118.32	1115.94	1090.07	1112.03	1103.89
Y 20.0	1059.54	1089.52	1078.71	1140.17	1121.48	1130.33	1059.21	979.09	975.62	954.77	972.69	966.99
Y 21.0	931.62	954.72	944.86	1001.02	985.50	992.94	927.30	856.08	852.22	834.92	850.06	846.71
Y 22.0	820.89	837.47	829.10	878.37	867.44	871.48	811.92	748.82	743.76	729.95	743.84	741.19
Y 23.0	724.44	736.98	728.74	772.70	764.38	766.81	711.75	657.65	650.42	639.80	650.83	649.66
Y 24.0	638.89	649.28	640.59	680.87	674.30	675.13	624.57	577.11	568.35	559.16	568.95	566.93
Y 25.0	562.48	570.18	562.33	598.87	593.62	593.40	546.69	504.06	495.53	486.89	495.79	494.06
Y 26.0	494.10	500.98	493.17	525.55	521.70	520.58	477.62	438.47	430.56	423.44	430.84	429.91
Y 27.0	435.98	440.38	432.70	459.51	457.17	454.95	416.31	384.62	375.58	370.10	376.97	376.55
Y 28.0	387.89	389.74	381.74	402.98	404.01	399.70	365.65	339.86	330.60	324.53	331.37	331.38
Y 29.0	347.14	348.11	340.38	357.14	359.92	355.69	322.23	301.43	291.50	285.60	291.72	293.75
Y 30.0	312.92	313.59	304.98	318.19	322.43	317.97	286.93	272.01	259.49	254.75	259.73	261.63
Y 31.0	282.95	285.46	274.93	285.47	291.63	287.23	257.70	246.56	231.53	226.99	231.90	232.54
Y 32.0	256.34	262.83	247.78	257.89	263.32	259.24	231.90	224.93	205.75	202.19	205.45	204.90
Y 33.0	230.31	239.90	223.19	232.20	235.72	231.38	208.53	202.63	182.52	179.28	181.31	180.37
Y 34.0	207.90	216.85	201.38	208.57	211.55	206.25	185.39	180.91	161.90	158.32	160.36	158.84
Y 35.0	184.71	194.77	180.97	187.44	191.00	185.84	163.81	159.84	142.61	139.73	141.39	139.44
Y 36.0	163.56	172.82	162.25	168.77	172.56	167.57	143.85	141.04	125.69	123.27	124.52	122.42
Y 37.0	144.22	153.47	146.05	152.19	156.52	151.26	127.24	124.33	110.64	109.02	109.71	107.95
Y 38.0	127.53	135.27	131.36	137.32	142.07	136.54	111.36	108.13	98.06	96.67	97.13	95.64
Y 39.0	114.19	118.39	119.03	124.29	129.25	123.62	96.69	93.06	87.57	85.98	86.17	84.77
Y 40.0	103.53	104.28	108.35	112.58	117.79	112.23	84.11	80.31	78.33	77.08	76.54	75.31
Y 41.0	94.84	94.04	99.32	102.27	107.09	101.39	73.97	70.62	70.12	69.42	68.39	67.17
Y 42.0	86.86	86.22	90.99	93.86	97.65	91.71	65.75	63.27	62.26	61.80	60.64	59.69
Y 43.0	79.70	78.80	82.45	86.00	88.93	83.36	58.38	56.44	54.92	55.56	54.19	53.27
Y 44.0	72.56	72.32	75.43	78.65	81.27	75.64	51.79	50.53	48.42	48.15	46.94	45.70
Y 45.0	64.31	64.54	67.63	71.57	74.05	69.05	45.37	43.36	40.88	40.52	39.37	38.26
Y 46.0	56.48	56.72	59.56	63.20	65.48	61.37	37.78	35.88	33.77	34.08	32.98	32.01

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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	50.68	50.06	52.62	55.33	57.58	53.78	30.82	30.15	28.33	29.83	28.69	28.02
Y 48.0	46.74	45.65	47.79	49.31	51.59	47.60	25.97	26.54	24.97	26.98	25.81	25.28
Y 49.0	43.87	42.49	44.58	45.35	47.74	43.55	23.20	24.15	22.67	24.54	23.43	23.13
Y 50.0	41.15	39.94	41.84	42.48	44.79	40.61	21.20	22.15	20.84	22.54	21.53	21.43
Y 51.0	38.97	37.76	39.48	39.93	42.17	38.28	19.66	20.51	19.28	20.92	19.92	19.87
Y 52.0	37.03	35.72	37.40	37.77	39.88	36.17	18.11	19.09	17.91	19.62	18.45	18.57
Y 53.0	35.11	33.80	35.59	35.77	37.81	34.40	16.87	17.86	16.65	18.26	17.22	17.20
Y 54.0	33.38	32.03	33.76	34.07	35.88	32.71	15.81	16.77	15.33	17.06	16.03	16.07
Y 55.0	31.82	30.51	32.10	32.29	34.11	31.29	14.86	15.70	14.49	15.86	14.90	15.03
Y 56.0	30.21	29.05	30.53	30.69	32.48	29.80	13.94	14.86	13.38	14.61	13.74	13.89
Y 57.0	28.55	27.47	28.94	29.23	30.93	28.40	13.10	13.93	12.44	12.97	12.29	12.40
Y 58.0	26.64	25.61	27.04	27.61	29.04	26.90	11.92	12.19	10.99	11.88	10.79	11.81
Y 59.0	25.68	24.60	25.88	25.12	26.15	24.69	10.78	11.77	10.62	11.42	10.48	11.36
Y 60.0	24.93	23.77	24.92	24.08	25.17	23.79	10.43	11.31	10.32	11.02	10.26	11.11
Y 61.0	24.13	23.07	24.17	23.31	24.37	22.98	10.17	11.03	10.05	10.98	10.04	10.96
Y 62.0	23.44	22.44	23.47	22.65	23.61	22.37	10.02	10.85	9.94	10.71	9.92	10.68
Y 63.0	22.86	21.78	22.79	22.05	22.84	21.71	9.86	10.60	9.75	10.41	9.68	10.40
Y 64.0	22.27	21.08	22.12	21.37	22.25	21.13	9.64	10.42	9.52	10.19	9.50	10.25
Y 65.0	21.72	20.56	21.64	20.84	21.68	20.61	9.45	10.15	9.37	10.13	9.31	10.10
Y 66.0	21.14	20.01	21.06	20.18	21.01	20.03	9.24	9.89	9.18	9.89	9.17	9.94
Y 67.0	20.53	19.52	20.53	19.63	20.56	19.62	9.15	9.86	9.09	9.57	8.98	9.67
Y 68.0	19.96	19.04	19.96	19.19	19.95	19.05	8.85	9.60	8.94	9.46	8.83	9.46
Y 69.0	19.38	18.47	19.42	18.73	19.48	18.51	8.78	9.41	8.68	9.31	8.61	9.40
Y 70.0	18.90	17.95	18.92	18.17	19.00	17.96	8.60	9.19	8.52	9.09	8.40	9.11
Y 71.0	18.43	17.40	18.45	17.71	18.51	17.50	8.42	8.99	8.35	8.91	8.29	8.93
Y 72.0	17.97	17.00	17.91	17.25	18.03	17.06	8.27	8.84	8.29	8.80	8.17	8.80
Y 73.0	17.45	16.55	17.38	16.84	17.56	16.58	8.08	8.65	8.02	8.52	7.98	8.53
Y 74.0	16.99	16.21	16.97	16.39	17.09	16.20	7.89	8.52	7.82	8.34	7.85	8.30
Y 75.0	16.58	15.77	16.51	15.96	16.67	15.76	7.77	8.26	7.71	8.24	7.64	8.22
Y 76.0	16.17	15.39	16.17	15.60	16.27	15.39	7.62	8.21	7.60	8.05	7.51	8.00
Y 77.0	15.76	14.99	15.77	15.07	15.81	14.98	7.53	8.01	7.48	7.92	7.41	7.80
Y 78.0	15.44	14.58	15.27	14.81	15.45	14.66	7.29	7.84	7.38	7.79	7.25	7.72
Y 79.0	15.03	14.27	14.96	14.49	15.10	14.27	7.26	7.76	7.24	7.60	7.20	7.54
Y 80.0	14.60	13.95	14.55	14.20	14.76	14.00	7.11	7.70	7.14	7.56	6.98	7.54
Y 81.0	14.28	13.51	14.30	13.85	14.37	13.71	7.04	7.44	7.07	7.44	6.93	7.41
Y 82.0	13.85	13.22	14.02	13.50	14.04	13.29	6.80	7.35	6.90	7.27	6.72	7.24
Y 83.0	13.68	12.97	13.59	13.18	13.76	13.00	6.74	7.21	6.84	7.15	6.65	7.26
Y 84.0	13.26	12.73	13.34	12.88	13.42	12.72	6.68	7.14	6.73	7.10	6.69	7.13
Y 85.0	13.04	12.40	12.99	12.67	13.15	12.51	6.50	7.18	6.63	7.03	6.55	7.02
Y 86.0	12.81	12.15	12.84	12.36	12.82	12.19	6.56	7.08	6.56	6.95	6.48	6.84
Y 87.0	12.51	11.86	12.51	12.16	12.58	11.92	6.49	7.01	6.55	6.80	6.41	6.79
Y 88.0	12.21	11.70	12.24	11.88	12.29	11.73	6.49	6.87	6.53	6.75	6.46	6.76
Y 89.0	11.98	11.46	12.03	11.62	12.04	11.53	6.44	6.81	6.43	6.71	6.40	6.62
Y 90.0	11.77	11.25	11.68	11.38	11.88	11.28	6.44	6.78	6.41	6.60	6.37	6.53
Y 91.0	11.40	10.93	11.51	11.14	11.64	11.01	6.45	6.76	6.36	6.59	6.31	6.58
Y 92.0	11.24	10.69	11.25	10.92	11.33	10.79	6.34	6.71	6.30	6.62	6.34	6.63
Y 93.0	11.05	10.52	11.09	10.71	11.15	10.53	6.41	6.65	6.31	6.55	6.25	6.66

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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	10.97	10.43	10.88	10.62	10.95	10.36	6.31	6.59	6.21	6.54	6.24	6.60
Y 95.0	10.88	10.25	10.65	10.34	10.77	10.27	6.34	6.63	6.26	6.49	6.28	6.59
Y 96.0	10.68	10.11	10.47	10.26	10.59	10.16	6.33	6.53	6.23	6.58	6.38	6.55
Y 97.0	10.54	10.00	10.44	10.15	10.49	10.04	6.33	6.56	6.33	6.51	6.29	6.46
Y 98.0	10.50	9.86	10.35	10.03	10.38	9.93	6.23	6.56	6.36	6.43	6.29	6.45
Y 99.0	10.31	9.72	10.24	9.91	10.20	9.83	6.20	6.49	6.30	6.46	6.28	6.44
Y 100.0	10.08	9.73	10.17	9.84	10.19	9.75	6.27	6.53	6.35	6.47	6.29	6.49
Y 101.0	10.15	9.68	10.10	9.82	10.16	9.62	6.26	6.59	6.33	6.49	6.30	6.46
Y 102.0	10.03	9.60	10.09	9.71	9.97	9.64	6.23	6.48	6.36	6.53	6.29	6.51
Y 103.0	10.09	9.46	10.05	9.70	9.98	9.51	6.29	6.59	6.29	6.59	6.32	6.56
Y 104.0	9.98	9.47	9.98	9.62	9.83	9.52	6.26	6.64	6.31	6.56	6.35	6.63
Y 105.0	9.92	9.52	9.92	9.63	9.81	9.41	6.25	6.59	6.34	6.62	6.32	6.71
Y 106.0	9.93	9.44	9.81	9.57	9.81	9.47	6.28	6.56	6.41	6.61	6.41	6.64
Y 107.0	9.86	9.38	9.76	9.54	9.78	9.44	6.35	6.70	6.37	6.57	6.46	6.68
Y 108.0	9.80	9.51	9.77	9.55	9.76	9.42	6.39	6.84	6.46	6.62	6.50	6.73
Y 109.0	9.81	9.57	9.70	9.53	9.74	9.48	6.49	6.92	6.61	6.72	6.58	6.82
Y 110.0	9.81	9.48	9.81	9.56	9.76	9.55	6.63	6.97	6.71	6.75	6.71	6.87
Y 111.0	9.86	9.56	9.85	9.56	9.81	9.62	6.68	7.11	6.79	6.89	6.85	7.00
Y 112.0	9.93	9.62	9.78	9.67	9.74	9.66	6.79	7.21	6.86	7.05	7.00	7.10
Y 113.0	9.94	9.66	9.73	9.64	9.86	9.64	7.08	7.38	6.97	7.08	7.19	7.21
Y 114.0	10.01	9.77	9.95	9.75	9.86	9.63	7.15	7.47	7.16	7.29	7.30	7.40
Y 115.0	10.05	9.80	9.87	9.73	9.98	9.66	7.32	7.62	7.36	7.46	7.51	7.43
Y 116.0	10.16	9.88	10.01	9.86	10.13	9.84	7.49	7.83	7.58	7.68	7.62	7.72
Y 117.0	10.22	10.04	10.13	9.95	10.11	9.94	7.70	8.03	7.89	7.82	7.83	7.88
Y 118.0	10.35	10.11	10.25	10.05	10.27	10.03	7.91	8.28	8.04	8.12	8.06	8.10
Y 119.0	10.45	10.25	10.30	10.17	10.36	10.15	8.16	8.52	8.32	8.35	8.37	8.34
Y 120.0	10.58	10.45	10.46	10.33	10.54	10.34	8.51	8.82	8.55	8.64	8.68	8.65
Y 121.0	10.69	10.64	10.59	10.59	10.60	10.52	8.91	9.13	8.89	8.99	8.92	8.94
Y 122.0	10.86	10.70	10.66	10.69	10.81	10.67	9.17	9.43	9.25	9.29	9.30	9.31
Y 123.0	11.11	10.95	10.91	10.84	11.01	10.80	9.49	9.80	9.64	9.64	9.63	9.70
Y 124.0	11.41	11.14	11.10	11.03	11.19	11.01	9.81	10.15	10.01	10.02	10.05	10.11
Y 125.0	11.63	11.34	11.30	11.28	11.43	11.26	10.27	10.60	10.38	10.34	10.39	10.48
Y 126.0	11.86	11.64	11.65	11.53	11.69	11.55	10.70	10.95	10.74	10.80	10.82	10.88
Y 127.0	12.11	11.90	11.87	11.78	11.93	11.83	11.15	11.52	11.27	11.20	11.24	11.40
Y 128.0	12.39	12.24	12.12	12.11	12.22	12.09	11.57	11.92	11.66	11.69	11.65	11.86
Y 129.0	12.73	12.54	12.34	12.38	12.39	12.36	12.15	12.42	12.16	12.26	12.12	12.39
Y 130.0	13.07	12.86	12.76	12.66	12.81	12.71	12.59	12.85	12.68	12.56	12.60	12.76
Y 131.0	13.38	13.19	13.10	13.04	13.08	12.98	13.07	13.34	13.19	13.01	13.03	13.25
Y 132.0	13.67	13.56	13.46	13.31	13.43	13.27	13.51	13.71	13.62	13.59	13.60	13.66
Y 133.0	14.04	13.96	13.73	13.68	13.80	13.69	13.94	14.17	14.10	14.07	14.08	14.15
Y 134.0	14.52	14.32	14.09	14.08	14.25	14.08	14.48	14.64	14.59	14.42	14.46	14.62
Y 135.0	14.85	14.71	14.49	14.40	14.55	14.48	14.83	15.13	15.02	14.77	14.93	15.06
Y 136.0	15.29	15.14	14.93	14.77	14.93	14.88	15.26	15.55	15.46	15.35	15.42	15.40
Y 137.0	15.62	15.40	15.36	15.15	15.27	15.28	15.73	16.01	15.86	15.66	15.66	15.83
Y 138.0	16.02	15.81	15.77	15.53	15.68	15.68	16.18	16.31	16.20	16.05	16.12	16.23
Y 139.0	16.44	16.18	16.09	15.87	16.06	16.11	16.63	16.83	16.60	16.36	16.50	16.59
Y 140.0	16.80	16.54	16.42	16.23	16.42	16.41	17.01	17.09	16.96	16.73	16.86	16.92

IES Indoor Report

Photometric Filename:Spot lamp Prolight 3000K White 15度 20W .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	17.15	16.94	16.75	16.55	16.66	16.70	17.39	17.46	17.25	17.05	17.13	17.30
Y 142.0	17.46	17.20	17.07	16.94	17.12	17.16	17.64	17.82	17.60	17.32	17.54	17.63
Y 143.0	17.79	17.62	17.38	17.20	17.39	17.53	17.99	18.08	17.92	17.63	17.81	17.84
Y 144.0	18.07	17.90	17.72	17.45	17.64	17.83	18.22	18.27	18.30	17.80	18.07	18.18
Y 145.0	18.33	18.16	18.01	17.74	18.01	18.07	18.44	18.55	18.41	18.03	18.33	18.49
Y 146.0	18.59	18.53	18.21	17.95	18.30	18.28	18.62	18.69	18.68	18.15	18.46	18.71
Y 147.0	18.91	18.73	18.38	18.15	18.42	18.49	18.98	18.94	18.86	18.32	18.58	18.87
Y 148.0	19.08	18.81	18.50	18.44	18.69	18.61	19.19	19.15	19.00	18.49	18.79	19.04
Y 149.0	19.16	18.97	18.66	18.61	18.82	18.79	19.31	19.31	19.18	18.60	18.92	19.24
Y 150.0	19.33	19.16	18.86	18.65	18.98	19.10	19.53	19.48	19.37	18.64	19.09	19.34
Y 151.0	19.42	19.31	18.93	18.65	19.15	19.22	19.68	19.73	19.45	18.76	19.21	19.47
Y 152.0	19.62	19.43	19.01	18.83	19.31	19.35	19.72	19.77	19.48	18.85	19.32	19.61
Y 153.0	19.55	19.51	19.09	18.92	19.41	19.48	19.85	19.75	19.57	18.93	19.37	19.69
Y 154.0	19.64	19.56	19.23	19.00	19.50	19.55	19.88	19.80	19.62	19.01	19.38	19.71
Y 155.0	19.77	19.67	19.28	19.01	19.65	19.53	20.01	19.86	19.73	19.02	19.38	19.76
Y 156.0	19.77	19.73	19.36	19.08	19.63	19.56	20.03	19.98	19.86	19.15	19.44	19.84
Y 157.0	19.79	19.75	19.35	19.07	19.60	19.58	19.96	19.98	19.80	19.11	19.36	19.83
Y 158.0	19.99	19.81	19.30	19.17	19.65	19.54	19.98	19.95	19.78	19.11	19.43	19.87
Y 159.0	19.88	19.74	19.36	19.05	19.66	19.54	20.05	19.89	19.69	19.14	19.38	19.80
Y 160.0	19.74	19.68	19.47	19.04	19.58	19.55	20.03	19.88	19.75	19.26	19.43	19.80
Y 161.0	19.75	19.66	19.36	19.04	19.48	19.54	19.94	19.92	19.78	19.15	19.34	19.76
Y 162.0	19.73	19.64	19.31	19.04	19.43	19.48	19.97	19.93	19.64	19.09	19.24	19.58
Y 163.0	19.63	19.58	19.24	18.98	19.39	19.49	19.98	19.80	19.57	19.11	19.20	19.50
Y 164.0	19.58	19.40	19.13	18.98	19.26	19.38	19.87	19.70	19.44	19.00	19.09	19.35
Y 165.0	19.49	19.28	19.08	18.95	19.19	19.28	19.71	19.55	19.38	18.93	18.86	19.26
Y 166.0	19.28	19.29	18.96	18.73	19.05	19.14	19.62	19.47	19.30	18.85	18.77	19.11
Y 167.0	19.29	19.10	18.83	18.67	18.94	18.99	19.53	19.40	19.09	18.69	18.58	18.96
Y 168.0	19.14	18.91	18.67	18.63	18.89	18.85	19.44	19.21	19.06	18.61	18.46	18.70
Y 169.0	19.04	18.79	18.64	18.55	18.76	18.75	19.34	19.04	18.90	18.51	18.34	18.47
Y 170.0	18.85	18.64	18.40	18.43	18.61	18.54	19.16	18.95	18.71	18.34	18.12	18.30
Y 171.0	18.67	18.41	18.27	18.29	18.39	18.45	18.95	18.73	18.51	18.15	17.98	18.07
Y 172.0	18.50	18.27	18.11	18.13	18.29	18.17	18.83	18.58	18.34	18.08	17.92	17.85
Y 173.0	18.39	18.09	17.96	18.01	18.07	18.05	18.68	18.40	18.26	17.97	17.81	17.67
Y 174.0	18.20	17.96	17.84	17.96	17.98	17.85	18.47	18.32	18.07	18.00	17.65	17.48
Y 175.0	18.09	17.85	17.68	17.91	17.87	17.80	18.39	18.24	17.94	17.86	17.57	17.42
Y 176.0	17.97	17.89	17.63	17.83	17.80	17.67	18.32	18.12	17.97	17.90	17.53	17.35
Y 177.0	17.93	17.81	17.69	17.81	17.76	17.56	18.16	18.01	17.94	17.77	17.56	17.24
Y 178.0	17.95	17.71	17.74	17.91	17.78	17.39	18.06	18.01	17.85	17.86	17.57	17.43
Y 179.0	18.04	17.91	17.69	18.04	17.77	17.35	18.11	17.92	17.89	17.85	17.65	17.41
Y 180.0	17.84	17.84	17.84	17.84	17.84	17.84	17.84	17.84	17.84	17.84	17.84	17.84