

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_14 ~ SGE6BX70L-35KXW-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625\_14\_M-70L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-35K-XW-DO101-AR6BX-MWWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Xtra Wide Beam

[OTHER] 53 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_14 ~ SGE6BX70L-35KXW-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33928	36180	39953
55	13142	13298	12791
65	13734	13378	13522
75	10197	10324	10985
85	4533	3677	5142

# IES INDOOR REPORT

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## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645
2.5	7071.432	7116.714	7077.379	7101.632	7090.940	6858.883	6865.662	6798.914	6875.728	6801.024
5.0	6846.916	6850.993	6832.194	6921.852	6924.338	6443.019	6473.554	6398.170	6406.674	6403.780
7.5	6321.119	6419.059	6347.988	6420.619	6385.578	5999.527	6016.403	5939.865	5997.073	5952.016
10.0	5848.047	5905.266	5824.569	5887.198	5862.610	5554.972	5568.546	5543.279	5607.322	5569.317
12.5	5531.331	5555.573	5513.228	5570.924	5566.195	5334.396	5350.394	5316.979	5350.339	5325.688
15.0	5244.252	5286.048	5237.166	5276.839	5277.330	5122.007	5133.556	5101.203	5137.272	5099.000
17.5	5045.853	5074.151	5043.794	5086.611	5099.870	4935.857	4947.702	4914.199	4934.862	4906.686
20.0	4836.887	4890.625	4863.977	4906.772	4919.000	4750.713	4755.040	4682.682	4736.009	4660.071
22.5	4596.595	4631.578	4608.473	4677.886	4689.261	4368.834	4394.467	4328.403	4340.975	4304.154
25.0	4232.284	4335.646	4340.743	4443.993	4428.874	3979.781	4014.122	3840.382	3881.081	3778.381
27.5	3497.025	3682.783	3603.662	3737.177	3716.905	3138.566	3168.241	2986.842	3104.630	2913.419
30.0	2755.408	2854.264	2789.683	2983.096	3001.405	2280.039	2334.334	2215.512	2222.567	2152.944
32.5	1994.951	2149.303	2094.871	2244.231	2235.394	1753.859	1795.091	1670.819	1671.311	1602.717
35.0	1350.244	1504.663	1419.296	1506.856	1500.133	1239.771	1266.919	1201.228	1229.380	1149.375
37.5	1045.308	1107.721	1088.523	1170.499	1192.406	971.953	998.863	936.812	936.677	889.435
40.0	768.671	830.751	814.203	874.181	891.036	712.625	734.112	694.742	692.825	658.340
42.5	575.848	620.794	616.189	667.074	680.516	534.595	550.521	513.175	514.868	485.260
45.0	403.698	443.543	430.486	468.682	475.388	359.515	370.257	352.369	358.679	335.769
47.5	292.202	317.128	311.630	342.598	345.143	259.231	268.037	248.263	255.517	233.349
50.0	198.747	215.323	203.399	223.728	220.166	161.520	168.963	164.244	169.707	156.829
52.5	158.698	162.644	160.597	172.957	170.390	138.459	140.449	134.591	134.879	132.386
55.0	126.846	133.929	128.344	128.835	123.457	118.100	112.887	111.628	116.886	114.119
57.5	119.033	119.569	118.793	117.773	115.949	110.865	107.565	106.924	107.248	108.171
60.0	111.656	112.155	112.849	109.866	108.545	104.079	102.185	101.021	100.344	102.040
62.5	105.544	105.377	104.210	103.354	102.540	96.174	95.520	91.877	94.611	95.545
65.0	97.667	98.910	95.138	96.979	96.159	88.233	88.608	82.807	89.265	87.197
67.5	84.690	86.052	82.665	85.622	84.999	75.193	76.700	73.939	77.422	75.187
70.0	70.957	70.294	69.694	73.792	73.570	62.191	64.450	63.892	63.590	62.853
72.5	55.747	56.389	57.420	60.015	60.812	51.275	50.160	51.672	49.934	50.058
75.0	44.410	43.221	44.962	46.690	47.841	39.385	37.326	38.808	36.926	38.459
77.5	35.389	32.106	32.003	34.315	34.610	25.806	26.431	25.701	26.483	27.865
80.0	22.475	21.252	21.966	22.464	22.797	15.730	16.459	14.593	16.488	20.117
82.5	13.054	11.888	12.724	12.852	14.739	8.766	8.548	6.472	8.518	9.196
85.0	6.648	5.570	5.392	5.939	7.541	3.979	3.103	2.627	4.019	3.307
87.5	2.691	2.226	1.960	1.630	2.360	1.001	0.774	1.147	1.452	1.022
90.0	0.607	0.245	0.461	0.525	0.894	0.383	0.502	0.476	0.496	0.475
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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## CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.  
Angles

## Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645	7217.645
2.5	6849.619	6790.739	6816.086	7040.861	7037.777	7091.203	7071.432
5.0	6458.419	6358.776	6360.995	6820.374	6795.779	6833.921	6846.916
7.5	6018.887	5944.581	5953.046	6317.753	6307.866	6401.994	6321.119
10.0	5606.964	5547.043	5548.283	5823.195	5810.494	5907.366	5848.047
12.5	5360.808	5312.191	5309.445	5527.926	5513.359	5567.519	5531.331
15.0	5121.817	5080.084	5081.490	5236.145	5224.290	5283.728	5244.252
17.5	4925.230	4874.227	4882.186	5034.666	5021.773	5067.206	5045.853
20.0	4701.716	4645.633	4684.817	4830.384	4822.578	4874.826	4836.887
22.5	4316.656	4195.159	4204.942	4556.933	4527.478	4594.925	4596.595
25.0	3862.663	3705.462	3706.565	4263.195	4228.882	4283.341	4232.284
27.5	3000.995	2840.899	2854.933	3445.498	3412.885	3587.892	3497.025
30.0	2187.367	2013.360	1979.488	2633.057	2577.076	2754.741	2755.408
32.5	1661.781	1546.782	1521.911	1949.974	1914.728	2063.200	1994.951
35.0	1174.014	1100.287	1091.663	1283.549	1258.691	1421.996	1350.244
37.5	909.764	845.543	838.360	1008.612	980.436	1052.194	1045.308
40.0	659.265	600.709	596.273	737.618	716.615	779.711	768.671
42.5	491.165	448.584	445.793	563.467	548.464	586.051	575.848
45.0	333.777	303.101	301.295	392.270	383.784	420.399	403.698
47.5	239.659	220.978	222.409	290.323	283.184	305.853	292.202
50.0	156.003	145.326	147.676	191.009	185.026	209.626	198.747
52.5	133.267	130.144	131.668	156.200	154.753	163.400	158.698
55.0	113.077	115.913	119.489	122.563	126.938	134.933	126.846
57.5	107.920	110.735	111.978	116.355	120.557	123.029	119.033
60.0	102.581	105.191	104.761	110.153	114.912	116.955	111.656
62.5	96.188	96.225	97.894	104.086	107.178	110.122	105.544
65.0	89.148	87.016	91.050	97.760	99.369	103.020	97.667

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_14 ~ SGE6BX70L-35KXW-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	78.415	75.687	77.620	86.193	86.389	90.028	84.690
70.0	66.933	63.998	63.818	74.332	73.109	75.095	70.957
72.5	53.067	50.804	49.757	60.723	57.794	60.375	55.747
75.0	40.212	38.181	36.944	47.387	44.041	46.428	44.410
77.5	28.321	26.196	26.501	34.419	32.991	35.752	35.389
80.0	20.104	18.382	17.317	24.650	23.395	23.692	22.475
82.5	11.317	9.333	9.185	13.569	14.699	12.889	13.054
85.0	4.694	3.033	3.450	5.772	6.643	6.205	6.648
87.5	1.523	1.124	1.464	1.998	1.867	2.219	2.691
90.0	0.448	0.593	0.591	0.529	0.346	0.603	0.607
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_14 ~ SGE6BX70L-35KXW-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2067.98	N.A.	39.10
0-30	3826.71	N.A.	72.30
0-40	4711.2	N.A.	89.10
0-60	5147.08	N.A.	97.30
0-80	5281.84	N.A.	99.90
0-90	5289.44	N.A.	100.00
10-90	4686.37	N.A.	88.60
20-40	2643.22	N.A.	50.00
20-50	2961.07	N.A.	56.00
40-70	525.55	N.A.	9.90
60-80	134.77	N.A.	2.50
70-80	45.09	N.A.	0.90
80-90	7.60	N.A.	0.10
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5289.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	603.08
10-20	1464.91
20-30	1758.73
30-40	884.49
40-50	317.85
50-60	118.03
60-70	89.67
70-80	45.09
80-90	7.60
90-100	0.07
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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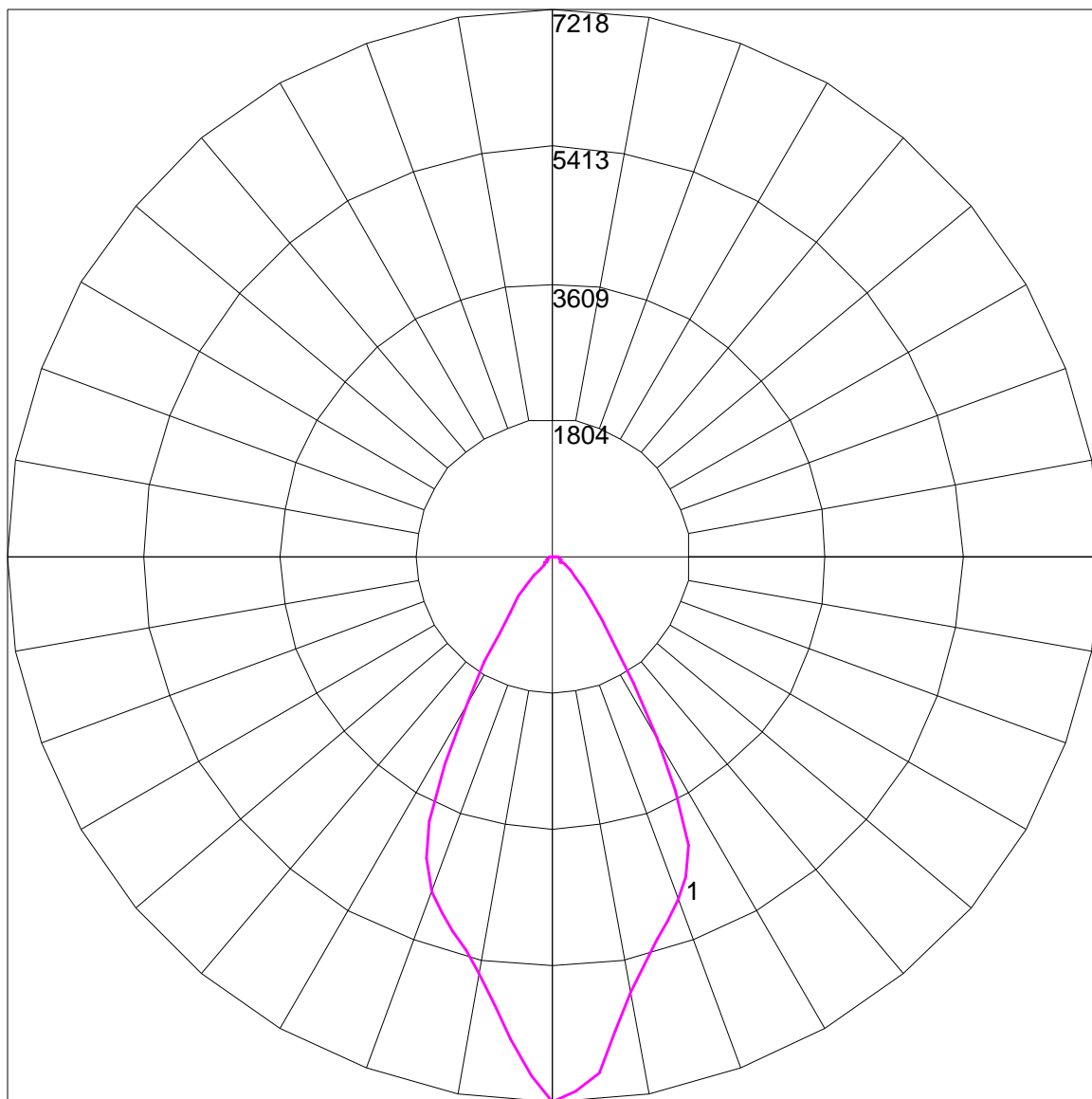
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00625\_14 ~ SGE6BX70L-35KXW-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 7217.645 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)