

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00621\_15 ~ SGE8BX70L-35KWD-DO101-AR8BXMWWF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621\_15\_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-70L35K-WD-DO101-AR8BX-MWWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Wide Beam

[OTHER] 60.5 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	5563
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_15 ~ SGE8BX70L-35KWD-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10074	10698	9727
55	1461	1320	1410
65	1000	871	945
75	542	419	500
85	497	379	412

# 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	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639
2.5	6533.678	6547.088	6537.262	6551.762	6536.990	6484.598	6523.196	6529.367	6545.133	6524.777
5.0	6453.197	6476.454	6460.484	6472.177	6465.820	6381.877	6434.677	6447.263	6463.056	6443.142
7.5	6305.980	6340.048	6311.732	6331.773	6308.793	6205.055	6277.061	6289.842	6323.150	6292.580
10.0	6142.356	6181.890	6146.222	6160.159	6139.169	6018.110	6098.270	6118.731	6154.929	6125.351
12.5	5937.946	5980.261	5930.980	5950.164	5914.345	5777.167	5874.992	5904.639	5938.804	5894.155
15.0	5721.225	5763.348	5704.694	5719.433	5682.226	5533.909	5636.912	5680.384	5697.966	5652.052
17.5	5472.097	5518.013	5443.517	5461.558	5415.513	5277.139	5384.980	5422.090	5433.771	5364.953
20.0	5207.610	5262.073	5181.926	5188.021	5149.121	5016.617	5128.150	5147.551	5156.893	5065.113
22.5	4900.223	4969.815	4918.935	4922.412	4884.427	4731.236	4823.751	4813.645	4803.697	4708.573
25.0	4558.162	4662.952	4626.395	4661.610	4604.056	4417.471	4501.184	4437.413	4406.251	4317.760
27.5	4111.276	4240.636	4225.129	4286.109	4233.050	3894.701	3983.095	3895.257	3878.304	3757.666
30.0	3586.227	3769.206	3737.583	3837.558	3797.276	3321.549	3385.926	3276.798	3270.841	3143.945
32.5	2809.477	3008.156	2909.379	3094.268	2936.949	2332.092	2517.604	2336.461	2452.458	2241.770
35.0	2028.993	2114.825	2087.923	2151.041	2085.090	1386.851	1531.363	1459.532	1497.103	1387.353
37.5	1235.422	1386.615	1295.799	1392.282	1294.886	873.547	922.453	878.376	864.334	822.293
40.0	568.325	737.961	606.848	764.810	570.092	391.142	486.810	371.241	451.441	315.988
42.5	376.315	410.338	403.000	404.535	379.213	258.130	266.372	238.909	222.883	202.695
45.0	206.497	248.272	219.277	246.561	199.376	130.776	150.167	119.521	126.143	98.448
47.5	128.203	146.674	138.322	140.551	125.899	83.316	84.020	73.574	69.008	63.831
50.0	60.689	77.903	65.931	75.787	57.055	37.883	43.821	32.779	42.000	32.232
52.5	41.127	42.028	42.581	39.065	39.798	27.565	25.356	24.111	26.191	26.820
55.0	24.284	24.937	21.942	25.670	23.441	17.548	18.749	16.283	19.312	21.748
57.5	20.539	16.663	18.369	17.861	19.577	14.844	14.815	14.452	15.523	20.029
60.0	17.004	13.760	14.971	14.987	15.810	12.168	12.438	12.697	14.354	18.175
62.5	14.593	12.429	12.842	12.975	13.701	10.489	11.680	11.540	13.291	14.686
65.0	12.249	12.103	10.670	11.758	11.574	8.799	11.914	10.268	12.321	11.313
67.5	10.270	10.305	8.181	9.985	9.120	6.673	10.140	8.044	10.390	9.413
70.0	8.224	7.583	5.879	7.711	6.799	4.659	7.179	5.956	7.634	7.472
72.5	5.959	6.312	4.309	5.377	5.282	3.487	5.017	4.437	5.330	5.314
75.0	4.063	5.408	3.144	3.015	3.750	2.414	3.159	3.174	3.262	3.900
77.5	2.526	2.921	2.416	2.335	2.195	1.486	1.771	2.201	2.636	3.419
80.0	1.471	1.994	1.792	1.659	1.646	1.072	1.322	1.517	1.788	1.951
82.5	1.153	1.814	1.148	1.068	1.404	0.901	1.189	1.186	1.043	1.168
85.0	1.255	1.102	0.957	0.721	1.040	0.780	0.706	0.800	0.932	0.996
87.5	0.995	0.623	0.634	0.481	0.655	0.590	0.507	0.568	0.571	0.886
90.0	0.573	0.162	0.746	0.192	0.208	0.364	0.162	0.391	0.215	0.664
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	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639	6583.639
2.5	6540.172	6524.392	6527.827	6534.697	6524.609	6538.469	6533.678
5.0	6454.597	6435.255	6439.847	6469.424	6449.294	6453.678	6453.197
7.5	6312.338	6284.867	6290.476	6338.719	6298.497	6310.448	6305.980
10.0	6146.494	6112.783	6123.373	6192.043	6135.497	6144.112	6142.356
12.5	5928.836	5889.426	5902.992	5993.598	5922.516	5938.302	5937.946
15.0	5688.394	5644.046	5665.862	5781.284	5698.019	5715.978	5721.225
17.5	5410.914	5343.617	5383.862	5507.610	5422.661	5459.942	5472.097
20.0	5115.964	5036.664	5086.842	5216.334	5142.423	5189.001	5207.610
22.5	4767.225	4712.434	4759.052	4912.626	4838.281	4878.043	4900.223
25.0	4391.733	4330.701	4420.115	4605.034	4509.442	4548.107	4558.162
27.5	3853.882	3784.470	3884.547	4160.330	4048.918	4109.025	4111.276
30.0	3230.983	3153.690	3273.449	3670.014	3543.408	3615.378	3586.227
32.5	2411.858	2265.723	2427.516	2937.236	2775.421	2883.094	2809.477
35.0	1482.904	1443.188	1486.069	2117.166	2005.355	2023.216	2028.993
37.5	868.539	836.876	890.501	1372.813	1221.522	1305.887	1235.422
40.0	439.304	337.399	446.170	657.375	510.697	668.745	568.325
42.5	216.456	215.153	236.053	345.553	337.308	345.085	376.315
45.0	123.119	110.270	134.059	196.951	175.472	206.817	206.497
47.5	70.116	71.054	78.332	115.068	112.645	121.453	128.203
50.0	43.687	37.988	45.489	62.195	54.249	69.451	60.689
52.5	29.321	30.473	29.125	37.898	39.125	41.437	41.127
55.0	23.296	23.672	21.348	26.720	24.990	29.303	24.284
57.5	19.180	20.072	17.864	20.456	22.048	21.613	20.539
60.0	16.468	16.642	16.771	16.609	19.143	17.054	17.004
62.5	14.261	14.065	14.411	15.001	16.754	14.322	14.593
65.0	12.444	11.418	11.310	14.554	14.280	12.940	12.249

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_15 ~ SGE8BX70L-35KWD-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	9.472	8.409	8.340	11.530	10.537	11.311	10.270
70.0	5.630	5.725	5.445	7.213	7.257	9.505	8.224
72.5	4.011	4.042	3.863	4.795	6.558	7.126	5.959
75.0	3.326	2.752	2.767	3.017	4.924	4.557	4.063
77.5	2.741	1.829	2.450	2.238	2.081	2.732	2.526
80.0	1.906	1.100	1.740	1.676	2.070	1.875	1.471
82.5	1.181	0.816	1.067	1.400	1.513	1.485	1.153
85.0	0.972	0.862	0.912	1.157	0.732	0.772	1.255
87.5	0.747	0.380	0.702	0.505	0.454	0.701	0.995
90.0	0.152	0.382	0.470	0.194	0.461	0.098	0.573
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-00621\_15 ~ SGE8BX70L-35KWD-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2196.86	N.A.	39.50
0-30	4218.67	N.A.	75.80
0-40	5360.15	N.A.	96.40
0-60	5546.02	N.A.	99.70
0-80	5561.44	N.A.	100.00
0-90	5562.46	N.A.	100.00
10-90	4957.31	N.A.	89.10
20-40	3163.29	N.A.	56.90
20-50	3325.02	N.A.	59.80
40-70	197.27	N.A.	3.50
60-80	15.41	N.A.	0.30
70-80	4.01	N.A.	0.10
80-90	1.03	N.A.	0.00
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5562.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	605.15
10-20	1591.71
20-30	2021.81
30-40	1141.48
40-50	161.73
50-60	24.14
60-70	11.40
70-80	4.01
80-90	1.03
90-100	0.05
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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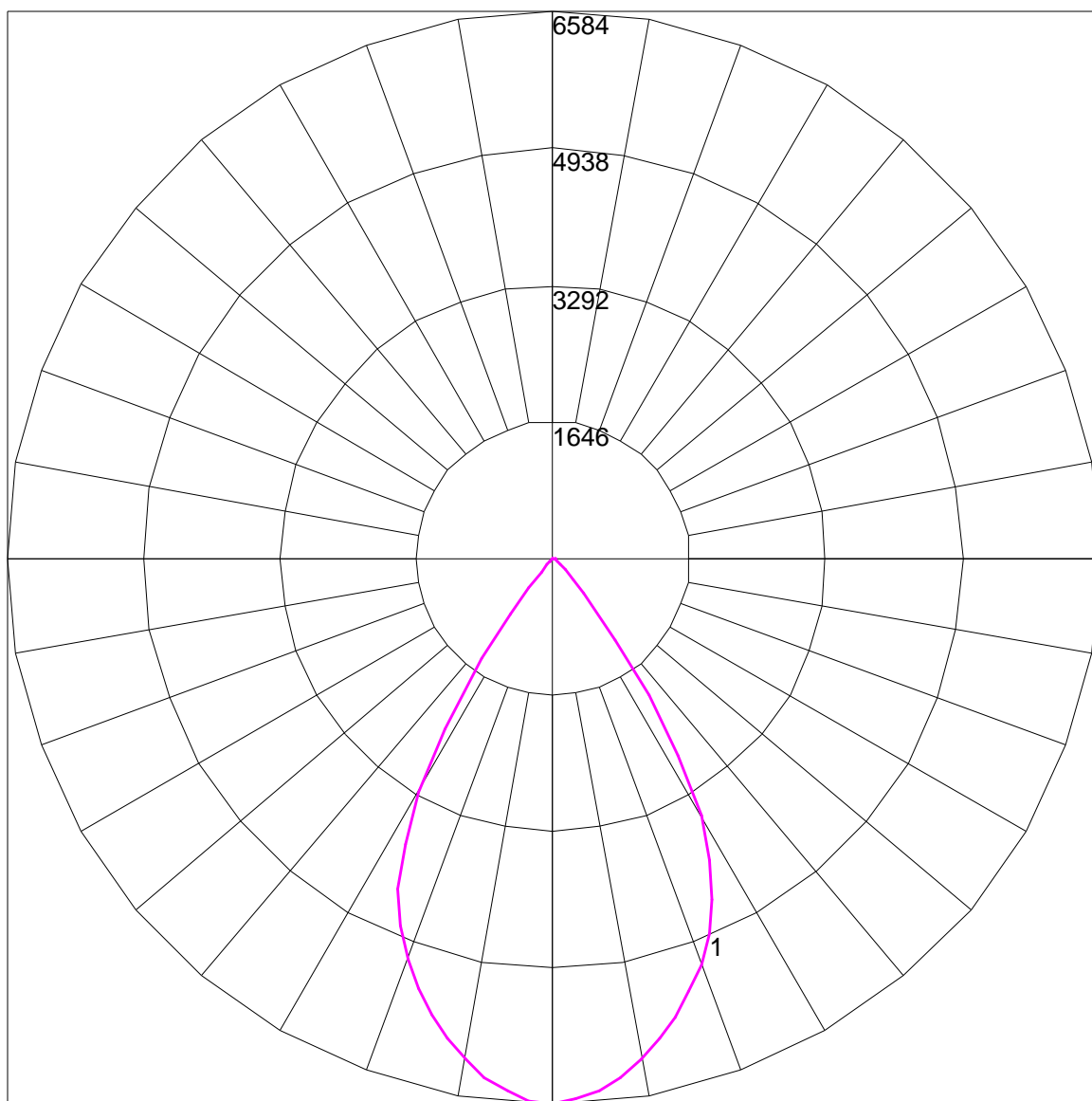
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	67	62	58	76	67	61	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00621\_15 ~ SGE8BX70L-35KWD-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 6583.639 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)