

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00621\_12 ~ SGE8BX60L-35KMD-DO101-AR8BXSGWF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00621\_12\_M-60L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 6/7/2018  
 [UPDATE] 7/19/2018  
 [LUMCAT] SGE8BX-60L35K-MD-DO101-AR8BX-SGWF  
 [LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture  
 [OTHER] Semi-diffuse aluminum reflector trim  
 [OTHER] Deep regressed retrofit high output LED downlight  
 [OTHER] BX Series, Medium Beam  
 [OTHER] 41 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	4897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.68
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\_12 ~ SGE8BX60L-35KMD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	190	173	208
55	77	86	105
65	67	107	65
75	103	119	64
85	309	240	308

# 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	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262
2.5	9933.884	9946.120	9925.585	9951.098	9928.374	9752.707	9835.912	9854.616	9919.968	9904.707
5.0	9688.199	9717.238	9656.400	9686.701	9653.839	9398.023	9515.154	9532.710	9609.493	9606.499
7.5	9340.613	9369.211	9266.490	9329.175	9268.983	8916.890	9076.064	9098.834	9187.305	9156.807
10.0	8743.009	8810.171	8649.985	8736.124	8663.225	8212.970	8423.825	8399.687	8518.764	8463.968
12.5	8068.441	8107.984	7941.308	8039.090	7964.230	7425.668	7651.338	7628.150	7739.589	7665.299
15.0	7196.319	7278.268	7052.398	7173.442	7070.611	6485.474	6748.694	6677.314	6810.161	6689.974
17.5	6315.527	6360.017	6150.498	6230.085	6151.825	5560.351	5770.831	5738.012	5811.484	5725.736
20.0	5411.854	5471.795	5222.556	5315.254	5179.148	4663.549	4877.755	4828.061	4900.995	4780.448
22.5	4521.549	4605.224	4357.031	4413.910	4283.559	3821.531	4035.647	3949.196	4032.902	3889.603
25.0	3667.524	3773.799	3619.821	3647.296	3557.368	3086.747	3242.393	3153.175	3231.664	3094.080
27.5	2857.071	2968.302	2884.103	2946.030	2837.706	2359.599	2479.209	2396.916	2463.389	2368.649
30.0	2170.609	2233.910	2151.580	2233.218	2133.021	1647.779	1769.619	1749.667	1809.131	1770.943
32.5	1492.296	1553.182	1437.737	1514.571	1440.070	991.874	1093.803	1122.215	1212.517	1179.338
35.0	837.857	932.509	764.988	890.469	774.762	451.053	582.846	550.610	693.084	599.122
37.5	302.488	358.889	252.252	315.374	260.625	69.892	179.875	108.416	214.305	180.310
40.0	133.530	76.328	107.095	78.459	112.301	31.470	13.894	49.292	32.818	75.434
42.5	4.843	27.011	4.783	24.098	5.607	4.536	6.797	4.439	11.814	5.065
45.0	3.895	3.814	3.536	4.063	4.273	2.905	3.373	3.101	3.316	3.513
47.5	2.984	2.341	2.618	3.014	3.127	1.736	2.468	2.019	1.845	2.446
50.0	2.194	1.457	2.501	2.156	2.467	1.626	1.988	1.743	1.315	2.370
52.5	1.527	1.075	2.199	1.405	1.933	1.461	1.813	1.520	1.325	2.145
55.0	1.280	0.942	1.427	1.024	1.744	1.167	1.571	1.470	1.218	1.599
57.5	1.072	1.024	0.891	0.863	1.530	0.959	1.281	1.379	1.041	1.151
60.0	1.009	0.985	0.977	0.821	1.245	0.958	1.048	1.148	1.011	0.916
62.5	0.934	0.836	1.098	0.851	0.986	0.967	0.858	1.008	1.070	0.768
65.0	0.826	1.029	1.313	1.023	0.800	0.997	0.677	1.188	0.982	0.816
67.5	0.797	1.518	1.324	1.280	0.711	0.920	0.503	1.213	0.807	0.857
70.0	0.973	1.398	0.933	0.983	0.829	0.641	0.688	0.851	0.757	0.887
72.5	0.962	0.948	0.809	0.513	0.739	0.787	1.032	0.729	0.754	0.838
75.0	0.774	0.875	0.892	0.999	0.478	1.247	0.982	0.828	0.788	0.736
77.5	0.781	0.857	0.892	1.002	0.746	0.838	0.820	0.929	0.698	0.893
80.0	0.743	0.874	0.844	0.616	0.910	0.653	0.587	0.973	0.512	0.816
82.5	0.716	0.815	0.762	0.719	0.847	0.706	0.702	0.842	0.477	0.750
85.0	0.780	0.828	0.607	0.698	0.777	0.671	1.005	0.590	0.663	0.809
87.5	0.703	0.948	0.553	0.809	0.743	1.068	0.699	0.730	1.159	0.466
90.0	0.412	0.194	0.414	0.230	0.877	0.887	0.283	0.424	0.378	0.704
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	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262	9969.262
2.5	9958.227	9940.541	9952.261	9963.600	9931.057	9945.785	9933.884
5.0	9682.157	9628.592	9661.211	9789.613	9716.440	9720.947	9688.199
7.5	9270.738	9204.117	9237.101	9482.649	9373.779	9397.689	9340.613
10.0	8619.988	8498.624	8569.995	8937.873	8782.909	8829.125	8743.009
12.5	7829.915	7712.054	7770.073	8245.817	8088.566	8146.637	8068.441
15.0	6891.937	6717.356	6835.626	7385.823	7185.206	7299.272	7196.319
17.5	5865.778	5738.736	5825.848	6419.346	6265.449	6373.339	6315.527
20.0	4935.120	4803.322	4912.914	5472.891	5311.726	5472.206	5411.854
22.5	4063.666	3912.428	4056.413	4539.431	4406.336	4583.392	4521.549
25.0	3257.900	3144.631	3272.013	3722.133	3605.388	3732.038	3667.524
27.5	2493.826	2423.352	2530.646	2983.175	2845.868	2899.767	2857.071
30.0	1855.889	1834.452	1886.010	2321.512	2178.212	2207.645	2170.609
32.5	1299.904	1247.238	1301.407	1713.196	1530.368	1588.711	1492.296
35.0	776.782	665.058	769.964	1114.773	927.616	989.027	837.857
37.5	275.847	199.279	272.297	523.444	430.402	399.812	302.488
40.0	51.893	91.699	55.507	197.417	184.159	129.779	133.530
42.5	19.306	8.912	21.406	65.968	8.788	37.598	4.843
45.0	4.944	6.359	6.579	8.201	6.537	3.436	3.895
47.5	3.661	4.162	4.779	5.718	4.542	2.393	2.984
50.0	2.880	3.155	3.790	4.083	3.185	1.835	2.194
52.5	2.468	2.288	3.364	3.106	2.048	1.563	1.527
55.0	1.971	1.905	2.677	2.361	1.485	1.417	1.280
57.5	1.410	1.557	1.806	1.801	1.094	1.349	1.072
60.0	1.151	1.344	1.384	1.372	1.169	1.122	1.009
62.5	1.129	1.137	1.292	1.051	1.245	0.794	0.934
65.0	1.063	0.954	1.219	0.918	1.321	0.771	0.826

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_12 ~ SGE8BX60L-35KMD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.964	0.832	1.160	0.934	1.249	0.934	0.797
70.0	0.961	0.869	0.869	0.925	0.875	1.111	0.973
72.5	1.002	0.760	0.477	0.903	0.773	1.285	0.962
75.0	1.014	0.513	0.601	0.832	0.890	0.938	0.774
77.5	1.014	1.014	0.847	0.781	0.853	0.765	0.781
80.0	0.971	1.208	1.114	0.746	0.741	0.798	0.743
82.5	0.728	1.032	0.654	0.633	0.606	0.985	0.716
85.0	0.771	0.806	0.944	0.790	0.644	0.822	0.780
87.5	0.876	0.940	1.179	0.800	0.541	0.578	0.703
90.0	0.278	0.664	0.908	0.332	0.635	0.141	0.412
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\_12 ~ SGE8BX60L-35KMD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2801.73	N.A.	57.20
0-30	4363.7	N.A.	89.10
0-40	4879.56	N.A.	99.70
0-60	4893.81	N.A.	99.90
0-80	4895.7	N.A.	100.00
0-90	4896.51	N.A.	100.00
10-90	4007.35	N.A.	81.80
20-40	2077.83	N.A.	42.40
20-50	2090.62	N.A.	42.70
40-70	15.25	N.A.	0.30
60-80	1.89	N.A.	0.00
70-80	0.90	N.A.	0.00
80-90	0.81	N.A.	0.00
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	4896.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	889.15
10-20	1912.58
20-30	1561.97
30-40	515.85
40-50	12.80
50-60	1.46
60-70	0.99
70-80	0.90
80-90	0.81
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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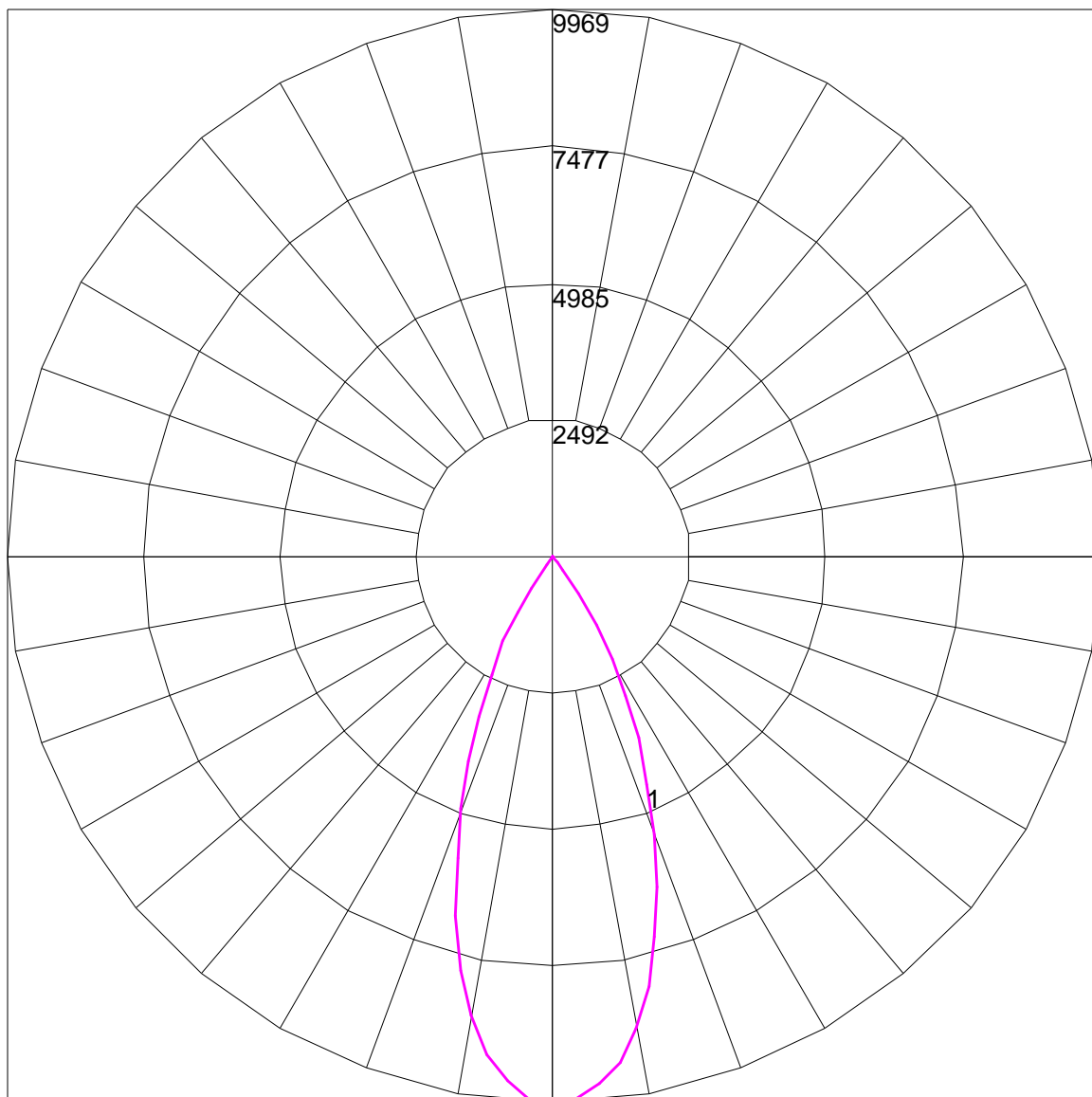
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	87	84	81	86	83	80	84	82	79	78
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68
9	83	75	70	67	82	74	70	66	74	69	66	73	69	66	72	68	66	65
10	80	72	67	64	79	71	67	64	71	66	63	70	66	63	69	66	63	62

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00621\_12 ~ SGE8BX60L-35KMD-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 9969.262 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)