

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621\_11\_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-60L35K-MD-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, Medium Beam

[OTHER] 40.7 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	4914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1174	1143	1022
55	975	859	958
65	752	645	689
75	449	524	490
85	394	312	397

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES

## 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	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699
2.5	9809.365	9831.139	9822.658	9829.262	9816.707	9706.423	9750.564	9743.861	9735.699	9691.033
5.0	9669.708	9718.591	9677.414	9693.891	9671.121	9476.888	9550.547	9512.175	9525.581	9426.348
7.5	9256.268	9349.679	9283.347	9331.781	9257.537	8949.722	9075.061	9013.623	9013.296	8879.125
10.0	8788.860	8895.747	8799.781	8845.625	8778.517	8380.953	8514.903	8437.649	8428.613	8267.698
12.5	8031.885	8191.994	8054.282	8152.839	8030.099	7570.076	7745.715	7630.886	7620.094	7413.832
15.0	7242.826	7400.484	7255.411	7341.519	7242.799	6739.156	6908.326	6789.097	6752.902	6535.118
17.5	6266.423	6472.782	6290.958	6423.300	6283.633	5776.700	5986.956	5836.559	5810.625	5556.056
20.0	5295.081	5494.484	5337.906	5439.865	5334.193	4829.164	5036.016	4900.755	4847.343	4601.554
22.5	4357.086	4570.033	4422.410	4537.357	4432.189	3989.668	4170.037	4022.302	3984.273	3755.928
25.0	3447.874	3667.074	3559.091	3686.549	3565.724	3167.792	3335.692	3186.726	3151.642	2948.946
27.5	2747.990	2923.351	2882.428	2960.985	2886.926	2493.049	2608.976	2507.715	2482.804	2326.494
30.0	2058.461	2246.631	2204.484	2319.167	2210.279	1816.088	1925.310	1829.628	1866.799	1709.156
32.5	1452.738	1581.980	1521.650	1645.164	1545.978	1118.247	1251.715	1155.221	1238.981	1118.236
35.0	864.079	922.763	882.831	948.318	909.775	460.714	582.367	554.159	607.124	571.740
37.5	436.869	481.227	427.864	474.013	455.289	236.402	254.359	266.435	288.916	281.271
40.0	44.925	142.819	52.904	164.880	54.530	27.718	80.432	29.530	86.238	30.240
42.5	34.212	27.043	36.915	26.642	36.817	24.362	23.260	26.072	27.672	27.748
45.0	24.063	22.102	23.437	22.900	20.957	21.088	21.516	22.732	25.177	25.222
47.5	21.367	19.470	22.103	20.566	20.295	19.100	19.033	19.997	22.751	22.467
50.0	18.756	18.064	20.473	19.389	19.520	17.108	16.180	17.494	20.354	19.869
52.5	17.514	17.133	17.248	17.870	17.694	14.998	14.323	16.265	17.529	18.524
55.0	16.218	16.468	14.274	16.055	15.923	12.924	12.996	14.737	14.516	17.116
57.5	13.751	14.559	12.759	13.984	14.761	11.844	11.620	11.353	12.491	15.134
60.0	11.333	11.911	11.221	11.680	13.496	10.733	10.216	8.357	10.930	13.161
62.5	10.264	10.497	9.524	9.878	10.911	8.317	8.653	7.996	9.451	11.276
65.0	9.207	9.849	7.899	8.557	8.435	5.933	6.995	7.507	8.012	9.351
67.5	8.538	8.115	6.781	7.109	7.443	5.216	5.587	6.085	6.363	6.981
70.0	7.656	5.721	5.758	5.547	6.401	4.473	4.322	4.734	4.615	4.816
72.5	5.283	4.448	5.090	3.878	5.092	3.532	3.512	3.652	3.827	3.643
75.0	3.370	3.526	3.935	2.154	3.673	2.451	2.837	2.693	3.239	2.658
77.5	2.118	2.386	2.269	1.835	2.117	1.160	2.107	1.864	2.342	1.900
80.0	1.522	1.759	1.438	1.294	2.252	1.490	1.442	1.131	1.782	1.462
82.5	1.146	1.142	0.990	0.720	1.753	1.216	1.015	0.873	1.390	0.902
85.0	0.996	0.366	0.787	0.747	1.004	0.766	0.854	0.567	1.024	0.674
87.5	0.399	0.509	0.553	0.814	0.627	0.685	0.840	0.546	0.768	0.402
90.0	0.455	0.140	0.254	0.259	0.643	0.275	0.236	0.331	0.162	0.430
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES

## 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	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699	9880.699
2.5	9714.350	9704.493	9734.042	9810.901	9798.133	9810.407	9809.365
5.0	9468.551	9425.284	9511.385	9690.995	9636.488	9660.869	9669.708
7.5	8967.316	8902.093	9003.705	9278.604	9197.079	9265.593	9256.268
10.0	8359.513	8282.624	8410.114	8800.762	8691.953	8771.221	8788.860
12.5	7547.902	7452.753	7600.068	8063.858	7922.134	8046.751	8031.885
15.0	6646.734	6572.702	6719.396	7264.702	7109.952	7222.826	7242.826
17.5	5698.316	5577.226	5753.834	6303.282	6110.518	6279.106	6266.423
20.0	4728.050	4627.310	4758.922	5299.212	5128.047	5280.887	5295.081
22.5	3874.947	3787.809	3922.779	4405.186	4226.308	4355.980	4357.086
25.0	3079.699	3004.584	3145.751	3542.025	3361.346	3466.149	3447.874
27.5	2417.898	2367.729	2480.727	2844.595	2685.645	2741.693	2747.990
30.0	1825.297	1741.659	1859.740	2197.634	2028.004	2101.671	2058.461
32.5	1230.505	1145.227	1237.894	1605.843	1474.076	1502.316	1452.738
35.0	634.504	615.602	615.684	1031.891	933.157	924.754	864.079
37.5	294.305	283.846	287.914	576.714	473.907	498.599	436.869
40.0	102.270	31.276	90.904	162.246	68.337	158.831	44.925
42.5	26.688	27.407	26.801	41.086	45.469	29.457	34.212
45.0	22.834	24.163	24.791	28.211	25.043	25.885	24.063
47.5	20.497	23.008	22.633	23.868	23.949	23.555	21.367
50.0	19.139	21.532	20.399	22.850	22.720	22.014	18.756
52.5	18.101	18.892	18.420	20.719	20.278	20.825	17.514
55.0	17.279	16.429	16.574	18.123	17.976	19.869	16.218
57.5	15.667	14.651	14.688	15.854	17.153	17.814	13.751
60.0	13.490	12.842	12.780	13.729	16.156	14.993	11.333
62.5	11.456	10.901	10.738	11.747	13.042	13.080	10.264
65.0	9.532	9.036	8.618	9.835	9.986	11.838	9.207

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	7.359	7.512	6.826	7.930	7.715	9.607	8.538
70.0	5.005	5.920	5.220	6.028	5.677	6.676	7.656
72.5	3.971	4.147	3.723	3.883	4.852	5.140	5.283
75.0	3.427	2.756	2.357	1.932	3.830	4.159	3.370
77.5	1.959	1.699	1.940	1.653	2.560	3.164	2.118
80.0	1.211	1.050	1.506	1.566	1.532	1.974	1.522
82.5	1.164	0.971	1.024	1.563	1.250	1.078	1.146
85.0	1.319	0.784	0.708	1.370	1.480	0.990	0.996
87.5	0.754	0.831	0.721	0.915	0.859	0.717	0.399
90.0	0.220	0.675	0.642	0.343	0.536	0.355	0.455
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\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2789.23	N.A.	56.80
0-30	4331.12	N.A.	88.10
0-40	4862.3	N.A.	98.90
0-60	4900.79	N.A.	99.70
0-80	4912.92	N.A.	100.00
0-90	4913.93	N.A.	100.00
10-90	4033.09	N.A.	82.10
20-40	2073.07	N.A.	42.20
20-50	2097.21	N.A.	42.70
40-70	47.23	N.A.	1.00
60-80	12.13	N.A.	0.20
70-80	3.39	N.A.	0.10
80-90	1.00	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	4913.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	880.83
10-20	1908.4
20-30	1541.89
30-40	531.18
40-50	24.14
50-60	14.35
60-70	8.74
70-80	3.39
80-90	1.00
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES

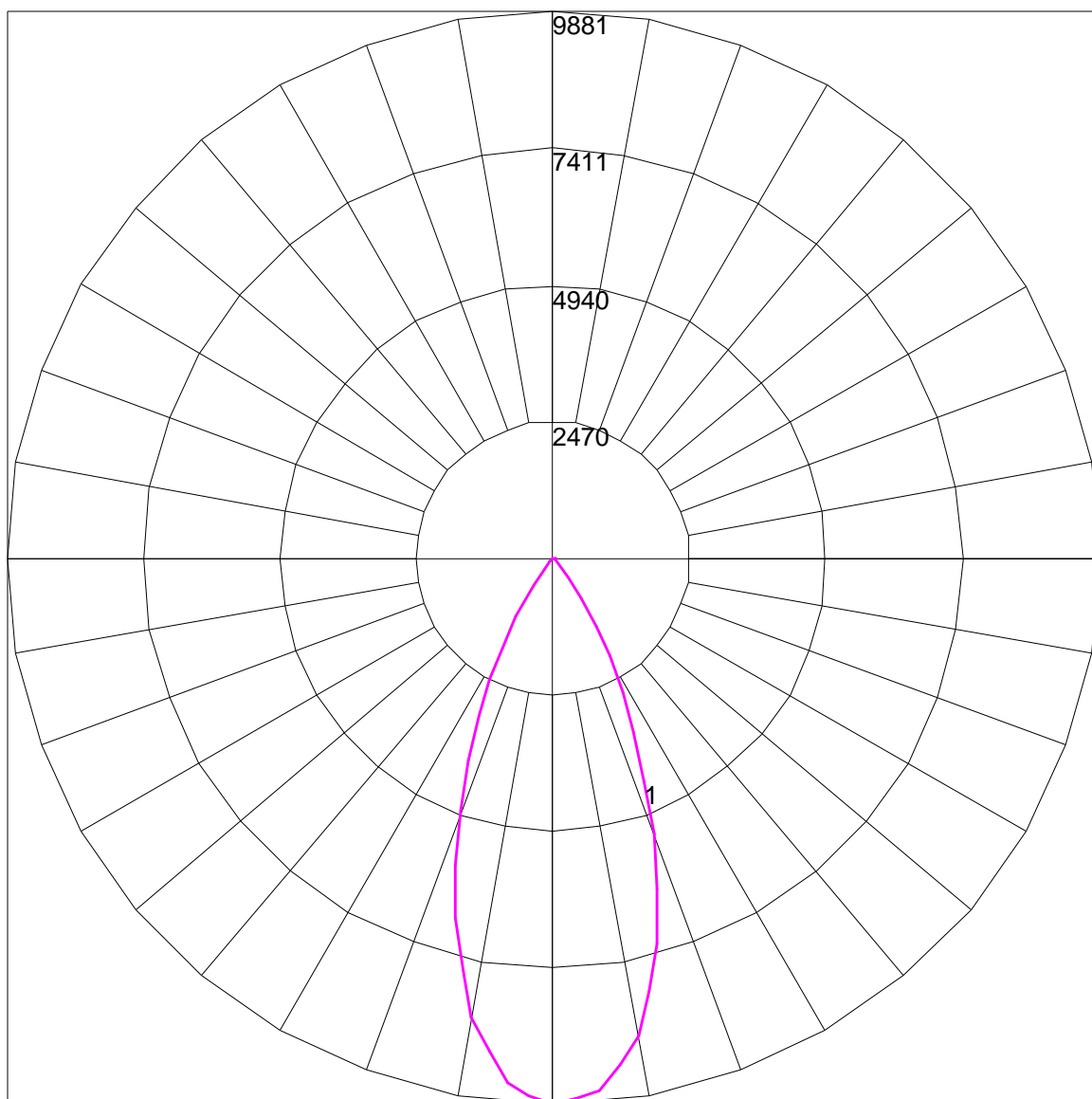
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	69	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64
10	80	71	66	63	79	71	66	63	70	66	63	69	66	63	69	65	63	61

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX60L-35KMD-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 9880.699 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)