

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_18 ~ SGE8BX60L-35KXW-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00621\_18\_M-60L  
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/7/2018  
[UPDATE] 7/19/2018  
[LUMCAT] SGE8BX-60L-35K-XW-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, Xtra Wide Beam  
[OTHER] 65.1 Deg Beam Angle  
[LAMPCAT] N/A  
[LAMP] N/A, Bridgelux Vero 29  
[OTHER] Dimmable driver tested at 100% output  
[OTHER] Tested CCT: 3500K  
[\_CCTMULT] 27K x 0.932, 30K x 1.00, 40K x 1.01  
[\_CRI] 80  
[\_LAMPMULT] 60L x 0.76, 70L x 0.864  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4869
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)	1.08
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.96
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\_18 ~ SGE8BX60L-35KXW-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13859	13865	14194
55	541	319	314
65	61	56	113
75	93	96	128
85	256	322	241

# 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	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162
2.5	4876.446	4883.578	4880.426	4876.131	4880.240	4819.608	4833.943	4851.267	4863.729	4873.978
5.0	4821.041	4840.014	4823.245	4830.577	4818.627	4753.878	4781.452	4792.583	4818.959	4821.454
7.5	4761.671	4771.672	4751.180	4758.521	4748.711	4681.421	4717.904	4728.312	4760.567	4760.684
10.0	4697.618	4692.276	4672.358	4676.369	4673.614	4601.824	4642.196	4656.106	4688.170	4691.528
12.5	4616.108	4605.958	4573.946	4581.725	4580.008	4505.037	4551.117	4570.511	4608.393	4606.503
15.0	4516.881	4508.670	4468.126	4478.225	4476.594	4392.570	4455.706	4468.615	4517.750	4507.610
17.5	4437.043	4405.546	4373.539	4365.312	4366.670	4298.998	4355.592	4394.518	4422.286	4425.671
20.0	4374.115	4346.765	4282.434	4277.712	4253.842	4220.227	4268.058	4349.494	4344.057	4356.448
22.5	4248.882	4307.853	4201.243	4213.236	4162.180	4078.960	4192.262	4190.799	4272.183	4178.738
25.0	4077.016	4098.510	4122.514	4056.832	4078.379	3895.787	3942.606	3929.923	3952.343	3931.452
27.5	3730.534	3825.616	3740.217	3828.324	3749.924	3449.621	3553.605	3501.249	3557.757	3512.945
30.0	3272.292	3316.876	3299.676	3343.162	3347.166	2851.464	2961.566	2943.080	2983.665	3001.051
32.5	2612.207	2736.171	2550.267	2685.639	2618.090	2108.842	2230.122	2229.709	2366.419	2292.805
35.0	1842.266	1974.787	1757.474	1952.128	1808.547	1295.565	1546.549	1412.684	1627.460	1494.219
37.5	1234.499	1168.614	1186.904	1174.635	1218.738	836.142	891.004	892.397	866.005	966.123
40.0	701.181	778.897	637.072	742.813	670.782	521.697	549.777	540.930	572.814	541.818
42.5	440.456	469.002	451.539	480.323	457.560	344.836	364.391	344.153	342.383	343.342
45.0	284.072	319.878	284.189	318.416	290.932	214.530	238.516	221.790	232.623	215.981
47.5	180.916	193.308	187.736	197.790	190.657	128.442	137.700	133.570	133.409	131.968
50.0	94.476	114.220	93.446	115.679	96.496	54.464	73.661	59.092	75.086	58.906
52.5	46.847	39.556	48.013	46.624	49.705	24.802	22.444	25.627	18.581	28.039
55.0	8.993	18.988	5.310	19.640	5.227	4.684	7.304	5.773	9.634	5.441
57.5	2.052	1.111	3.053	4.202	2.817	1.572	2.380	1.315	1.196	2.114
60.0	1.148	0.875	1.006	1.257	0.847	1.275	1.261	0.983	1.012	1.566
62.5	0.898	0.812	0.837	1.009	1.140	1.102	0.993	0.800	0.833	1.379
65.0	0.743	0.883	0.682	0.945	1.390	0.944	0.840	0.649	0.707	1.227
67.5	0.826	0.942	0.625	0.912	1.047	0.984	0.706	0.686	0.613	0.943
70.0	0.933	0.843	0.589	0.973	0.753	1.039	0.724	0.752	0.779	0.652
72.5	0.823	0.749	0.647	1.045	0.871	0.738	0.762	0.619	0.912	0.904
75.0	0.701	0.701	0.720	0.813	0.957	0.437	0.764	0.462	0.848	1.150
77.5	0.644	0.644	0.850	0.580	0.863	0.638	0.755	0.529	0.794	1.075
80.0	0.590	0.560	0.844	0.870	0.809	0.767	0.502	0.616	0.771	1.008
82.5	0.543	0.678	0.629	0.934	0.841	0.632	0.441	0.752	0.765	0.970
85.0	0.646	0.904	0.813	0.645	0.610	0.610	0.688	0.844	0.763	0.872
87.5	0.693	0.782	1.036	0.571	0.644	0.632	0.749	0.876	0.713	0.741
90.0	0.739	0.706	0.473	0.233	0.385	0.540	0.204	0.549	0.662	0.638
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	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162	4887.162
2.5	4874.444	4879.733	4875.846	4864.562	4865.580	4865.842	4876.446
5.0	4833.929	4826.124	4832.870	4835.609	4818.517	4826.076	4821.041
7.5	4779.912	4765.522	4772.468	4779.629	4763.561	4768.169	4761.671
10.0	4712.882	4701.421	4700.793	4717.593	4704.747	4698.871	4697.618
12.5	4628.293	4614.214	4617.618	4651.974	4620.202	4624.635	4616.108
15.0	4530.758	4517.305	4523.558	4559.575	4525.125	4527.075	4516.881
17.5	4418.236	4421.549	4419.954	4453.753	4431.549	4421.124	4437.043
20.0	4321.816	4326.194	4330.804	4362.225	4338.480	4355.093	4374.115
22.5	4241.416	4163.986	4252.528	4276.708	4223.268	4300.771	4248.882
25.0	3990.692	3982.909	3979.015	4078.242	4102.000	4054.109	4077.016
27.5	3594.352	3548.039	3579.846	3840.446	3718.580	3762.635	3730.534
30.0	3069.429	3056.585	3040.005	3384.115	3278.789	3289.043	3272.292
32.5	2450.206	2330.483	2423.154	2865.977	2653.583	2783.021	2612.207
35.0	1747.765	1564.750	1712.535	2130.063	1998.402	2014.553	1842.266
37.5	993.167	1024.566	958.605	1345.481	1330.206	1212.537	1234.499
40.0	589.152	511.317	588.954	877.571	660.542	808.187	701.181
42.5	371.813	351.572	367.375	463.300	453.246	436.324	440.456
45.0	238.993	217.973	240.874	313.897	277.318	305.182	284.072
47.5	144.083	138.808	144.453	196.243	186.725	183.478	180.916
50.0	80.058	61.714	81.684	121.530	98.899	111.452	94.476
52.5	27.564	32.437	27.460	50.012	53.022	41.377	46.847
55.0	10.240	4.402	11.547	25.494	9.232	20.791	8.993
57.5	3.662	2.991	3.188	2.643	5.168	1.724	2.052
60.0	1.894	1.681	1.901	1.829	1.466	1.210	1.148
62.5	1.300	1.509	1.640	1.043	1.521	0.748	0.898
65.0	1.052	1.321	1.313	0.852	1.525	0.698	0.743

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_18 ~ SGE8BX60L-35KXW-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.868	1.015	0.978	0.683	1.176	0.666	0.826
70.0	0.705	0.755	0.945	0.766	0.889	0.727	0.933
72.5	0.543	0.746	0.929	0.824	0.913	0.762	0.823
75.0	0.648	0.779	1.106	0.695	0.929	0.675	0.701
77.5	0.773	0.977	1.247	0.613	0.920	0.615	0.644
80.0	0.769	1.038	0.999	0.707	0.818	0.621	0.590
82.5	0.765	0.874	0.834	0.651	0.564	0.666	0.543
85.0	0.765	0.672	0.800	0.580	0.778	0.663	0.646
87.5	0.866	0.898	0.861	0.901	0.654	0.491	0.693
90.0	0.198	0.375	0.686	0.556	0.428	0.629	0.739
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\_18 ~ SGE8BX60L-35KXW-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1725.59	N.A.	35.40
0-30	3518.42	N.A.	72.30
0-40	4619.64	N.A.	94.90
0-60	4866.13	N.A.	99.90
0-80	4867.95	N.A.	100.00
0-90	4868.73	N.A.	100.00
10-90	4413.14	N.A.	90.60
20-40	2894.05	N.A.	59.40
20-50	3120.17	N.A.	64.10
40-70	247.48	N.A.	5.10
60-80	1.82	N.A.	0.00
70-80	0.83	N.A.	0.00
80-90	0.77	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	4868.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	455.58
10-20	1270.00
20-30	1792.83
30-40	1101.22
40-50	226.12
50-60	20.38
60-70	0.99
70-80	0.83
80-90	0.77
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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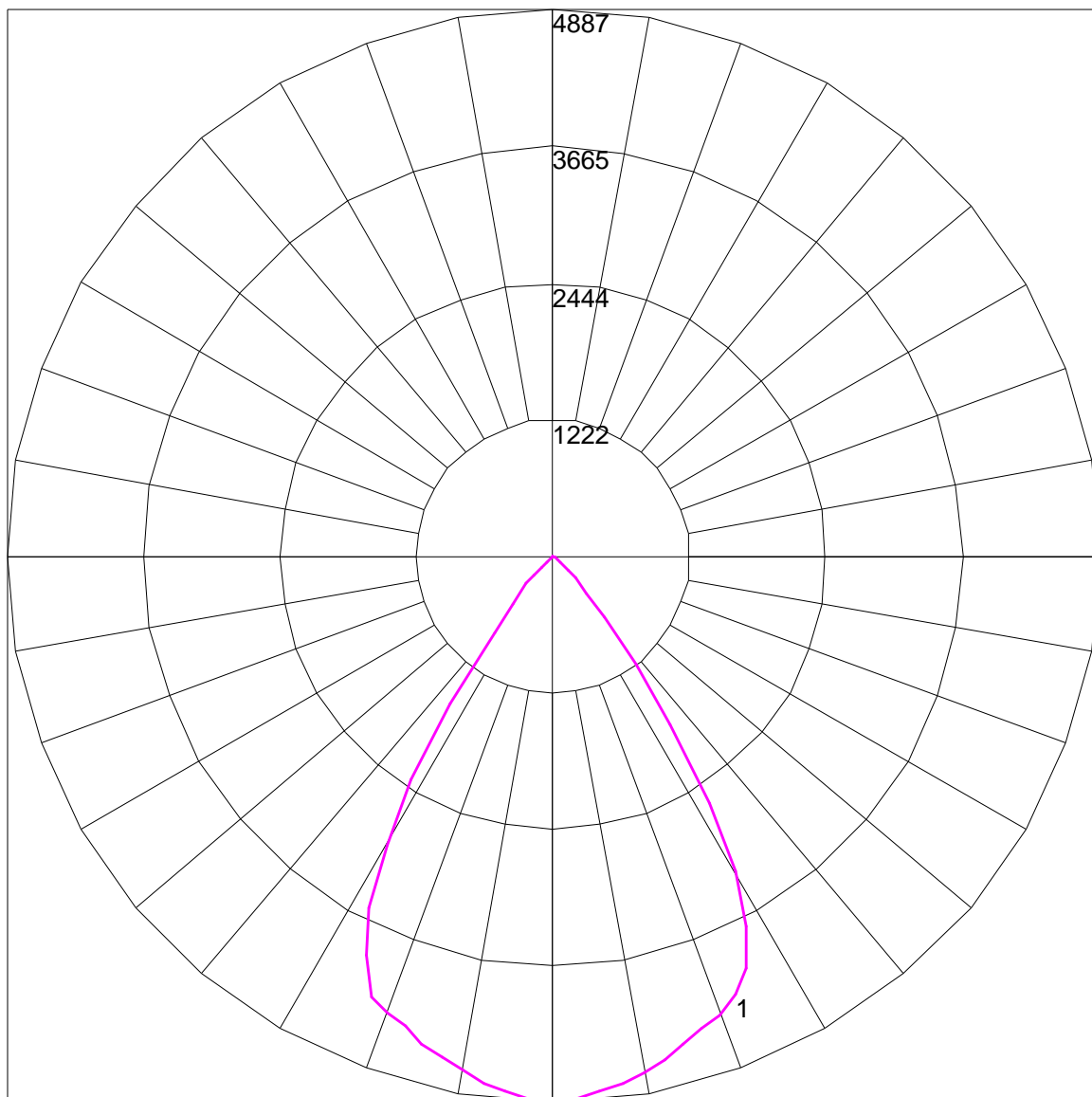
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	63	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	50

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00621\_18 ~ SGE8BX60L-35KXW-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 4887.162 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)