

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00625\_13\_M-60L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/7/2018  
 [UPDATE] 7/20/2018  
 [LUMCAT] SGE6BX-60L35K-WD-DO101-AR6BX-SGWF  
 [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, Medium Beam  
 [OTHER] 40.1 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	4705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
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\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11843	13147	13990
55	382	390	388
65	131	166	155
75	163	123	158
85	571	272	271

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.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	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178
2.5	9129.348	9143.233	9018.380	9155.864	9087.130	8581.631	8772.649	8680.803	8967.293	8935.206
5.0	8628.812	8495.599	8416.415	8407.918	8525.057	7785.729	7874.269	7953.552	8151.289	8324.356
7.5	7702.912	7708.748	7479.416	7614.995	7576.153	6993.113	7107.611	7124.587	7379.874	7454.053
10.0	6888.492	6857.804	6665.834	6792.221	6730.489	6269.992	6399.659	6389.739	6638.484	6667.225
12.5	6269.938	6228.290	6101.315	6165.606	6181.492	5793.523	5863.512	5878.216	6040.139	6096.055
15.0	5705.657	5705.964	5581.076	5677.177	5662.061	5331.423	5409.219	5390.523	5542.566	5552.503
17.5	5241.375	5246.839	5156.262	5231.930	5234.357	4923.733	4985.489	4962.447	5085.547	5085.680
20.0	4784.181	4820.353	4728.949	4818.498	4806.378	4492.795	4577.060	4515.487	4658.835	4612.575
22.5	4340.688	4345.775	4295.969	4353.544	4377.498	3965.590	4040.572	4018.666	4136.175	4121.000
25.0	3786.613	3845.133	3758.819	3848.904	3873.902	3379.994	3435.736	3430.109	3538.552	3540.131
27.5	3004.433	3125.285	2972.881	3159.632	3103.012	2534.780	2685.204	2580.839	2793.869	2675.518
30.0	2241.370	2278.964	2218.299	2319.595	2347.536	1746.515	1853.109	1804.359	1929.101	1869.719
32.5	1519.767	1612.161	1544.047	1646.625	1650.907	1237.842	1276.651	1246.975	1292.598	1262.528
35.0	930.237	1053.887	974.629	1116.210	1032.755	772.699	852.459	765.024	853.621	737.517
37.5	647.119	693.259	688.885	735.853	735.191	538.985	561.797	528.660	541.913	508.058
40.0	404.674	457.769	437.654	491.159	463.423	322.501	354.442	318.404	345.269	302.071
42.5	261.667	290.072	287.021	308.460	307.391	205.674	213.228	198.552	201.888	188.142
45.0	140.914	167.962	156.435	184.311	166.457	98.421	115.216	94.890	109.521	88.232
47.5	77.559	88.716	87.776	96.689	98.534	53.562	55.726	50.980	49.522	47.224
50.0	27.435	39.629	31.550	45.609	38.356	13.457	22.950	14.612	21.905	12.558
52.5	14.011	14.200	16.105	15.288	19.782	7.540	7.180	8.639	6.496	7.203
55.0	3.684	6.428	3.767	6.662	3.745	2.225	3.746	3.570	4.023	2.630
57.5	2.457	2.457	2.488	1.917	2.540	1.907	2.067	2.409	2.367	1.959
60.0	1.455	1.450	1.451	1.409	1.474	1.571	1.740	1.395	1.614	1.355
62.5	1.169	1.087	1.327	0.993	1.293	1.074	1.320	1.075	1.107	1.121
65.0	0.931	1.256	1.177	0.682	1.104	0.670	0.824	0.837	0.884	0.911
67.5	0.853	1.134	0.926	0.644	0.850	1.184	0.723	1.000	0.763	0.841
70.0	0.769	0.780	0.703	0.905	0.675	1.558	0.925	1.080	0.755	0.776
72.5	0.672	0.613	0.550	0.944	0.783	1.301	0.958	0.912	0.758	0.733
75.0	0.712	0.534	0.534	0.846	0.688	1.008	0.913	0.805	0.769	0.683
77.5	0.841	0.740	0.627	0.691	0.380	0.672	0.758	0.752	0.549	0.627
80.0	0.709	0.713	0.522	0.628	0.501	0.762	0.745	0.897	0.600	0.726
82.5	0.723	0.537	0.406	0.644	0.437	0.757	0.914	0.857	0.825	0.709
85.0	0.837	0.585	0.399	0.505	0.397	0.651	1.099	0.732	0.795	0.625
87.5	0.806	0.933	0.470	0.287	0.186	0.676	0.837	0.404	0.886	0.560
90.0	0.592	0.135	0.387	0.156	0.485	0.565	0.305	0.541	0.300	0.271
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-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.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	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178	9418.178
2.5	9158.631	9087.160	9131.065	9341.350	9269.279	9261.246	9129.348
5.0	8474.897	8512.942	8440.651	9033.307	8933.648	8789.164	8628.812
7.5	7714.129	7611.894	7658.300	8267.044	8020.485	8046.181	7702.912
10.0	6908.588	6816.825	6837.603	7343.105	7174.453	7166.003	6888.492
12.5	6257.695	6207.971	6196.545	6639.045	6508.025	6474.602	6269.938
15.0	5702.370	5636.367	5634.423	6016.483	5882.145	5883.555	5705.657
17.5	5201.363	5133.399	5130.053	5480.625	5370.959	5368.602	5241.375
20.0	4735.501	4631.828	4652.819	4978.707	4872.775	4896.081	4784.181
22.5	4198.904	4132.999	4093.283	4490.601	4414.276	4411.520	4340.688
25.0	3614.407	3513.934	3493.107	4008.294	3881.632	3919.812	3786.613
27.5	2848.905	2646.853	2703.475	3273.900	3108.809	3206.374	3004.433
30.0	1953.323	1851.953	1814.072	2428.030	2339.351	2355.123	2241.370
32.5	1299.773	1216.137	1207.304	1705.126	1581.484	1650.191	1519.767
35.0	828.104	704.291	756.683	1039.435	923.628	1041.869	930.237
37.5	513.352	480.059	478.293	661.442	640.670	658.373	647.119
40.0	323.625	288.526	299.661	426.389	387.422	430.206	404.674
42.5	189.317	176.932	178.801	268.535	253.254	268.932	261.667
45.0	101.153	84.647	93.525	150.956	133.352	156.695	140.914
47.5	46.538	43.040	44.622	79.623	76.179	82.543	77.559
50.0	21.111	11.113	19.177	33.991	26.690	37.584	27.435
52.5	6.930	6.040	6.797	12.765	13.583	13.479	14.011
55.0	3.114	2.125	3.363	5.759	2.545	6.082	3.684
57.5	1.176	1.669	1.621	2.628	2.093	2.408	2.457
60.0	1.047	1.255	1.091	1.898	1.685	1.898	1.455
62.5	0.953	0.974	0.758	1.349	1.524	1.487	1.169
65.0	0.894	0.729	0.572	0.918	1.329	1.167	0.931

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.814	0.597	0.618	0.805	0.941	0.991	0.853
70.0	0.713	0.483	0.834	0.891	0.659	0.942	0.769
72.5	0.736	0.407	0.641	0.703	0.739	0.670	0.672
75.0	0.828	0.470	0.304	0.447	0.677	0.298	0.712
77.5	0.608	0.621	0.423	0.515	0.475	0.525	0.841
80.0	0.479	0.524	0.463	0.527	0.623	0.713	0.709
82.5	0.477	0.434	0.460	0.556	0.731	0.854	0.723
85.0	0.570	0.480	0.655	0.593	0.600	0.806	0.837
87.5	0.619	0.309	0.819	0.540	0.253	0.537	0.806
90.0	0.263	0.499	0.480	0.222	0.535	0.182	0.592
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\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2333.78	N.A.	49.60
0-30	3943.25	N.A.	83.80
0-40	4576.69	N.A.	97.30
0-60	4702.62	N.A.	99.90
0-80	4704.37	N.A.	100.00
0-90	4705.02	N.A.	100.00
10-90	3954.54	N.A.	84.00
20-40	2242.9	N.A.	47.70
20-50	2362.1	N.A.	50.20
40-70	126.96	N.A.	2.70
60-80	1.75	N.A.	0.00
70-80	0.73	N.A.	0.00
80-90	0.64	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	4705.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	750.48
10-20	1583.3
20-30	1609.47
30-40	633.44
40-50	119.20
50-60	6.74
60-70	1.02
70-80	0.73
80-90	0.64
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-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES

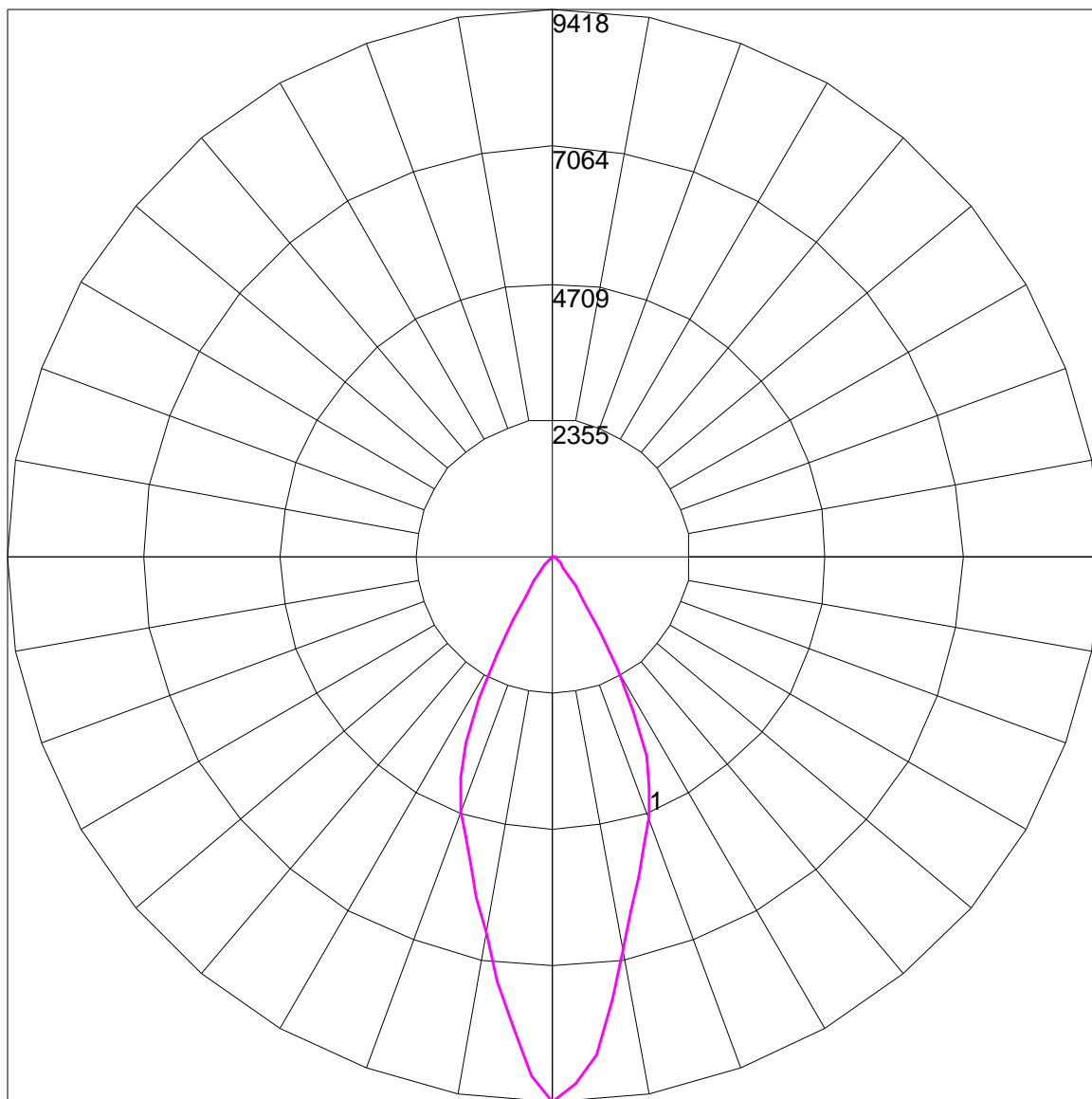
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00625\_13 ~ SGE6BX60L-35KWD-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 9418.178 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)