

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00621_17
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/7/2018
 [UPDATE] 7/13/2018
 [LUMCAT] SGE8BX-80L-35K-XW-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, Xtra Wide Beam
 [OTHER] 66.1 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.12
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_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21152	22012	21929
55	3194	3412	3605
65	1597	1457	1456
75	1038	1208	1195
85	504	651	722

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX80L-35KXW-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	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479
2.5	6145.835	6159.070	6153.086	6157.897	6149.408	6111.511	6137.249	6131.845	6143.413	6127.277
5.0	6103.950	6107.987	6101.309	6097.968	6091.949	6061.252	6083.809	6093.943	6096.840	6087.055
7.5	6052.332	6055.935	6039.090	6036.650	6027.718	6004.847	6028.626	6049.825	6050.879	6042.950
10.0	5997.831	6001.146	5967.741	5969.835	5962.112	5929.702	5969.840	5990.718	6006.552	5980.819
12.5	5942.702	5936.289	5894.995	5894.945	5896.398	5848.188	5897.503	5927.772	5947.208	5915.132
15.0	5854.653	5847.015	5794.388	5793.779	5785.279	5734.043	5800.650	5841.171	5853.835	5816.910
17.5	5761.004	5751.937	5690.714	5686.181	5672.156	5610.499	5695.744	5749.715	5746.471	5713.621
20.0	5623.422	5644.833	5570.809	5560.755	5538.202	5468.151	5578.218	5593.468	5611.481	5539.460
22.5	5480.310	5492.077	5449.698	5414.989	5401.979	5321.392	5387.686	5426.651	5392.763	5357.326
25.0	5158.716	5257.853	5192.383	5221.462	5170.101	4992.783	5097.621	5021.369	5031.357	4943.217
27.5	4821.227	4909.841	4930.048	4917.849	4916.505	4629.536	4640.658	4587.614	4556.458	4512.304
30.0	4210.467	4383.221	4266.174	4392.996	4289.250	3805.430	3982.295	3809.937	3911.194	3760.362
32.5	3585.870	3651.728	3588.902	3680.043	3624.433	2914.629	3124.388	3003.714	3087.046	2995.904
35.0	2533.350	2640.473	2524.791	2635.991	2555.042	1995.604	2056.068	2037.741	2029.041	2001.906
37.5	1482.350	1786.632	1498.546	1754.376	1554.630	1073.567	1301.200	1064.581	1251.588	1025.203
40.0	1034.044	1123.049	1048.718	1120.655	1067.146	761.950	839.440	766.013	794.350	728.109
42.5	598.610	681.685	624.260	672.569	625.880	491.244	537.583	477.071	488.850	441.050
45.0	433.549	475.015	451.174	474.718	449.487	347.463	366.369	339.378	336.910	312.141
47.5	273.756	313.938	287.071	314.827	286.772	207.554	236.271	204.997	217.460	188.494
50.0	175.370	195.561	185.704	199.590	185.471	130.629	135.899	128.510	126.752	118.249
52.5	84.311	111.531	94.250	114.327	97.661	55.802	75.601	57.139	70.218	54.909
55.0	53.109	55.608	56.728	60.323	59.945	39.878	40.501	41.437	40.467	40.678
57.5	26.050	29.506	25.760	31.454	30.262	24.800	24.982	27.198	26.076	28.111
60.0	23.895	24.687	22.941	25.499	25.234	22.023	20.289	23.927	22.173	24.737
62.5	21.737	21.366	20.218	21.417	20.787	19.244	18.330	20.650	19.872	21.469
65.0	19.566	18.989	17.844	18.849	17.840	16.453	17.672	17.347	18.535	18.658
67.5	16.706	15.498	15.271	15.933	15.277	13.617	14.580	14.215	16.142	15.542
70.0	11.858	11.477	12.234	12.803	13.414	10.580	10.614	11.644	13.271	11.603
72.5	8.868	9.437	10.202	9.870	11.286	7.828	8.989	8.830	10.205	8.487
75.0	7.787	7.466	9.062	7.230	8.967	5.457	7.060	5.740	7.232	6.188
77.5	5.615	4.812	5.476	5.564	5.679	3.336	3.981	4.525	4.603	4.693
80.0	3.731	3.460	2.958	4.250	3.514	2.551	2.604	3.732	3.143	3.401
82.5	2.242	2.283	1.883	2.455	2.446	2.710	2.203	2.741	2.625	2.092
85.0	1.273	1.586	1.645	1.380	1.824	1.620	1.839	1.378	1.932	1.161
87.5	1.359	1.838	1.160	1.420	1.730	1.290	1.245	1.163	0.871	1.190
90.0	0.917	0.630	0.701	0.613	0.912	0.836	0.560	1.432	0.662	0.913
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_17 ~ SGE8BX80L-35KXW-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	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479	6149.479
2.5	6140.633	6126.897	6142.476	6153.340	6138.570	6147.625	6145.835
5.0	6094.995	6083.868	6089.126	6100.516	6095.948	6092.998	6103.950
7.5	6048.085	6037.568	6036.376	6051.523	6041.148	6042.137	6052.332
10.0	5996.829	5979.266	5986.565	6009.623	5986.341	6000.023	5997.831
12.5	5930.530	5919.512	5925.138	5950.167	5931.532	5940.352	5942.702
15.0	5821.405	5809.103	5818.122	5862.598	5834.841	5845.207	5854.653
17.5	5702.382	5694.630	5703.764	5754.242	5727.763	5739.320	5761.004
20.0	5559.535	5534.580	5565.251	5616.517	5583.695	5614.721	5623.422
22.5	5361.533	5372.596	5382.749	5444.123	5432.310	5433.654	5480.310
25.0	5048.228	5006.283	5079.280	5229.016	5122.663	5165.987	5158.716
27.5	4610.899	4628.305	4656.357	4867.710	4789.041	4790.920	4821.227
30.0	3950.337	3846.994	3950.280	4346.782	4178.171	4272.479	4210.467
32.5	3134.969	3052.774	3126.866	3616.274	3535.972	3549.540	3585.870
35.0	2074.573	2027.672	2065.528	2685.717	2526.114	2584.888	2533.350
37.5	1265.319	1063.803	1233.178	1836.035	1489.453	1749.940	1482.350
40.0	801.799	746.297	801.156	1054.786	1010.898	1048.977	1034.044
42.5	480.962	450.384	481.898	613.252	554.341	615.315	598.610
45.0	333.964	318.129	336.156	422.558	403.973	426.513	433.549
47.5	214.835	194.468	215.077	283.894	256.527	282.833	273.756
50.0	125.373	119.457	127.030	178.660	169.267	175.259	175.370
52.5	68.742	55.383	67.305	108.436	85.502	103.204	84.311
55.0	42.666	41.077	41.163	58.002	57.188	55.926	53.109
57.5	29.125	29.044	26.333	36.774	31.057	34.278	26.050
60.0	25.924	25.366	23.226	29.774	27.192	28.400	23.895
62.5	23.187	21.518	20.156	25.259	23.552	24.472	21.737
65.0	20.784	17.145	17.118	21.797	21.516	21.583	19.566

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	16.920	13.552	13.416	17.731	18.920	18.270	16.706
70.0	12.245	11.590	9.250	13.477	14.221	14.785	11.858
72.5	8.916	9.022	7.542	10.807	10.355	10.606	8.868
75.0	6.190	5.966	6.303	8.055	7.516	6.992	7.787
77.5	4.676	3.732	4.208	4.937	5.336	5.033	5.615
80.0	3.019	2.459	2.891	4.158	3.722	3.132	3.731
82.5	2.345	1.850	2.179	2.827	2.856	2.377	2.242
85.0	1.521	1.171	1.490	1.811	2.290	1.820	1.273
87.5	1.273	0.869	0.855	1.206	1.292	1.449	1.359
90.0	0.997	0.705	0.610	0.603	0.996	0.807	0.917
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_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2218.51	N.A.	34.70
0-30	4523.11	N.A.	70.80
0-40	5980.11	N.A.	93.60
0-60	6362.12	N.A.	99.60
0-80	6388.16	N.A.	100.00
0-90	6390.16	N.A.	100.00
10-90	5811.97	N.A.	91.00
20-40	3761.6	N.A.	58.90
20-50	4088.77	N.A.	64.00
40-70	400.41	N.A.	6.30
60-80	26.05	N.A.	0.40
70-80	7.64	N.A.	0.10
80-90	1.99	N.A.	0.00
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6390.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	578.19
10-20	1640.32
20-30	2304.6
30-40	1457.00
40-50	327.17
50-60	54.84
60-70	18.41
70-80	7.64
80-90	1.99
90-100	0.11
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_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES

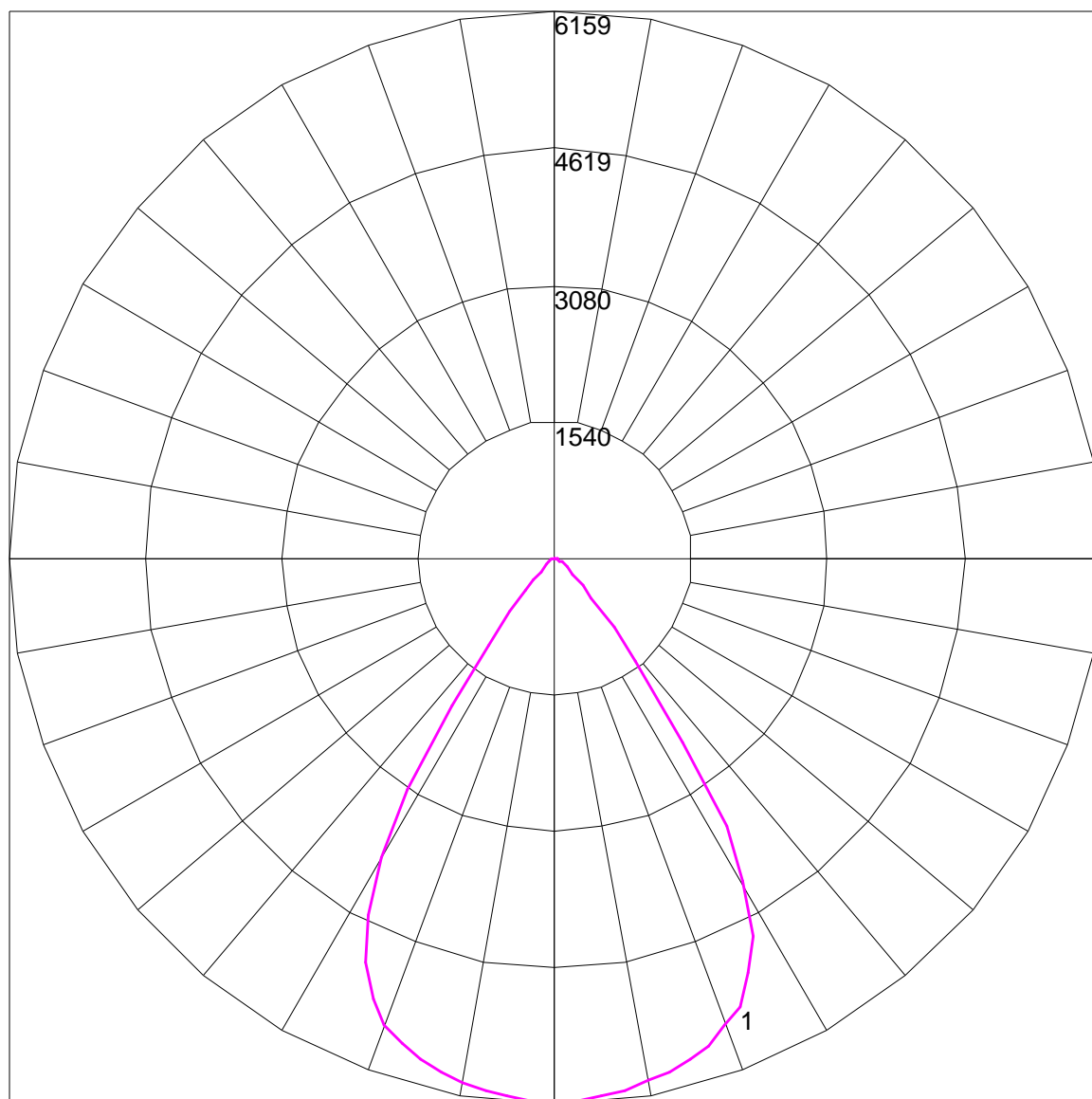
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	54	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX80L-35KXW-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 6159.07 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)