

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_18 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_18_M-70L
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/19/2018
[LUMCAT] SGE8BX-70L-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	5535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	51
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 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15756	15762	16136
55	615	363	357
65	69	63	129
75	106	109	145
85	291	366	274

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621_18 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.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	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931
2.5	5543.750	5551.858	5548.274	5543.391	5548.062	5479.133	5495.430	5515.125	5529.292	5540.944
5.0	5480.763	5502.331	5483.268	5491.603	5478.018	5404.409	5435.756	5448.410	5478.396	5481.233
7.5	5413.268	5424.638	5401.342	5409.687	5398.535	5322.036	5363.512	5375.344	5412.013	5412.146
10.0	5340.450	5334.377	5311.733	5316.293	5313.161	5231.547	5277.444	5293.257	5329.709	5333.527
12.5	5247.786	5236.247	5199.855	5208.698	5206.747	5121.516	5173.902	5195.949	5239.015	5236.867
15.0	5134.981	5125.646	5079.554	5091.035	5089.180	4993.658	5065.434	5080.110	5135.969	5124.441
17.5	5044.217	5008.410	4972.023	4962.670	4964.215	4887.283	4951.620	4995.874	5027.442	5031.290
20.0	4972.678	4941.586	4868.451	4863.084	4835.946	4797.732	4852.108	4944.688	4938.507	4952.593
22.5	4830.308	4897.349	4776.151	4789.785	4731.742	4637.134	4765.940	4764.277	4856.798	4750.566
25.0	4634.924	4659.359	4686.648	4611.978	4636.473	4428.894	4482.121	4467.703	4493.191	4469.440
27.5	4241.028	4349.121	4252.036	4352.201	4263.072	3921.675	4039.888	3980.367	4044.608	3993.664
30.0	3720.079	3770.765	3751.211	3800.647	3805.200	3241.664	3366.834	3345.818	3391.956	3411.721
32.5	2969.667	3110.594	2899.251	3053.148	2976.355	2397.420	2535.297	2534.827	2690.245	2606.558
35.0	2094.365	2245.021	1997.971	2219.262	2056.032	1472.853	1758.182	1605.999	1850.165	1698.691
37.5	1403.431	1328.530	1349.323	1335.375	1385.512	950.562	1012.931	1014.515	984.511	1098.330
40.0	797.132	885.483	724.250	844.461	762.573	593.088	625.010	614.952	651.199	615.962
42.5	500.729	533.181	513.328	546.051	520.174	392.024	414.255	391.248	389.235	390.326
45.0	322.945	363.651	323.078	361.989	330.744	243.886	271.155	252.140	264.456	245.537
47.5	205.673	219.760	213.426	224.856	216.747	146.018	156.543	151.848	151.665	150.027
50.0	107.405	129.851	106.233	131.509	109.701	61.917	83.741	67.179	85.361	66.967
52.5	53.258	44.969	54.583	53.005	56.506	28.196	25.516	29.134	21.124	31.876
55.0	10.224	21.586	6.037	22.327	5.942	5.325	8.304	6.563	10.952	6.185
57.5	2.333	1.263	3.471	4.777	3.203	1.787	2.706	1.495	1.360	2.403
60.0	1.305	0.994	1.144	1.429	0.963	1.450	1.433	1.117	1.151	1.780
62.5	1.021	0.924	0.951	1.147	1.296	1.253	1.129	0.910	0.947	1.567
65.0	0.845	1.004	0.776	1.075	1.580	1.073	0.955	0.738	0.804	1.394
67.5	0.939	1.070	0.711	1.037	1.191	1.119	0.803	0.780	0.696	1.072
70.0	1.060	0.958	0.670	1.106	0.856	1.181	0.823	0.855	0.886	0.741
72.5	0.936	0.852	0.735	1.188	0.990	0.839	0.867	0.703	1.037	1.027
75.0	0.797	0.797	0.819	0.924	1.088	0.497	0.868	0.525	0.964	1.307
77.5	0.733	0.733	0.966	0.659	0.981	0.726	0.858	0.601	0.903	1.222
80.0	0.670	0.637	0.960	0.989	0.920	0.872	0.570	0.700	0.877	1.146
82.5	0.618	0.771	0.715	1.062	0.956	0.719	0.501	0.854	0.870	1.102
85.0	0.734	1.028	0.924	0.734	0.693	0.694	0.782	0.959	0.867	0.991
87.5	0.788	0.889	1.178	0.649	0.733	0.718	0.851	0.995	0.810	0.842
90.0	0.841	0.803	0.538	0.264	0.438	0.613	0.232	0.624	0.753	0.726
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_18 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.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	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931	5555.931
2.5	5541.473	5547.486	5543.067	5530.239	5531.396	5531.694	5543.750
5.0	5495.414	5486.541	5494.211	5497.324	5477.893	5486.487	5480.763
7.5	5434.005	5417.646	5425.543	5433.683	5415.416	5420.655	5413.268
10.0	5357.802	5344.773	5344.060	5363.158	5348.555	5341.875	5340.450
12.5	5261.638	5245.633	5249.503	5288.560	5252.440	5257.480	5247.786
15.0	5150.757	5135.462	5142.571	5183.517	5144.353	5146.570	5134.981
17.5	5022.836	5026.604	5024.790	5063.215	5037.971	5026.121	5044.217
20.0	4913.223	4918.200	4923.440	4959.161	4932.167	4951.054	4972.678
22.5	4821.821	4733.795	4834.453	4861.942	4801.189	4889.298	4830.308
25.0	4536.787	4527.939	4523.512	4636.317	4663.326	4608.882	4634.924
27.5	4086.211	4033.560	4069.720	4365.980	4227.438	4277.522	4241.028
30.0	3489.456	3474.854	3456.005	3847.205	3727.465	3739.123	3720.079
32.5	2785.497	2649.391	2754.744	3258.164	3016.704	3163.856	2969.667
35.0	1986.933	1778.874	1946.882	2421.546	2271.868	2290.229	2094.365
37.5	1129.074	1164.770	1089.782	1529.600	1512.234	1378.464	1403.431
40.0	669.773	581.286	669.548	997.660	750.932	918.781	797.132
42.5	422.692	399.682	417.647	526.699	515.269	496.032	500.729
45.0	271.697	247.800	273.836	356.852	315.267	346.944	322.945
47.5	163.800	157.803	164.220	223.097	212.277	208.585	205.673
50.0	91.014	70.159	92.862	138.161	112.432	126.704	107.405
52.5	31.336	36.876	31.217	56.856	60.278	47.040	53.258
55.0	11.642	5.004	13.127	28.983	10.495	23.636	10.224
57.5	4.163	3.400	3.624	3.005	5.875	1.960	2.333
60.0	2.153	1.911	2.161	2.080	1.667	1.375	1.305
62.5	1.478	1.716	1.865	1.185	1.729	0.850	1.021
65.0	1.196	1.502	1.492	0.969	1.733	0.794	0.845

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_18 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.987	1.153	1.112	0.777	1.337	0.757	0.939
70.0	0.801	0.859	1.075	0.871	1.011	0.827	1.060
72.5	0.618	0.848	1.057	0.937	1.038	0.866	0.936
75.0	0.737	0.886	1.257	0.790	1.056	0.767	0.797
77.5	0.879	1.110	1.418	0.696	1.046	0.699	0.733
80.0	0.874	1.180	1.135	0.804	0.930	0.706	0.670
82.5	0.869	0.994	0.949	0.740	0.641	0.757	0.618
85.0	0.870	0.764	0.910	0.659	0.885	0.753	0.734
87.5	0.985	1.021	0.979	1.024	0.743	0.558	0.788
90.0	0.226	0.426	0.780	0.632	0.486	0.715	0.841
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 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1961.72	N.A.	35.40
0-30	3999.88	N.A.	72.30
0-40	5251.8	N.A.	94.90
0-60	5532.02	N.A.	99.90
0-80	5534.09	N.A.	100.00
0-90	5534.97	N.A.	100.00
10-90	5017.05	N.A.	90.60
20-40	3290.08	N.A.	59.40
20-50	3547.14	N.A.	64.10
40-70	281.35	N.A.	5.10
60-80	2.07	N.A.	0.00
70-80	0.94	N.A.	0.00
80-90	0.88	N.A.	0.00
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5535.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	517.93
10-20	1443.79
20-30	2038.17
30-40	1251.91
40-50	257.06
50-60	23.17
60-70	1.13
70-80	0.94
80-90	0.88
90-100	0.08
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_18 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES

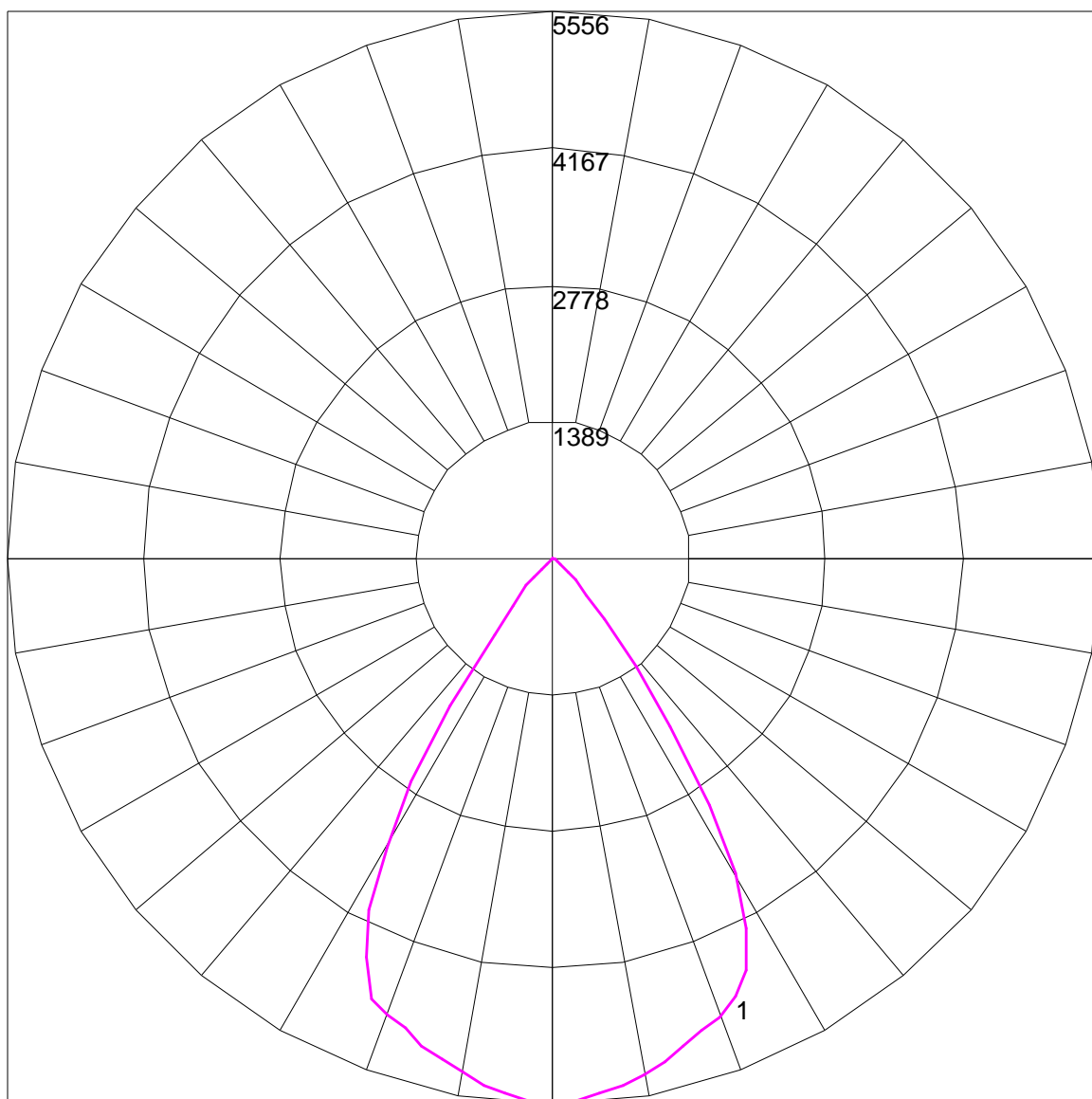
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 ~ SGE8BX70L-35KXW-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 5555.931 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)