

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX60L-35KXW-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_15_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-60L-35K-XW-DO101-AR6BX-SGWF

[LUMINAIRE] Nom. 6" 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] 44.6 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	4654
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.74
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_15 ~ SGE6BX60L-35KXW-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20732	22753	25846
55	325	350	525
65	192	87	173
75	95	148	176
85	385	302	567

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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	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675
2.5	7952.351	7972.240	7851.750	7957.626	7920.066	7424.729	7605.069	7529.998	7766.280	7786.094
5.0	7532.614	7387.239	7295.756	7321.306	7385.589	6666.832	6752.303	6803.795	7048.180	7218.417
7.5	6735.709	6688.625	6482.230	6595.663	6546.257	6023.534	6113.140	6153.100	6389.585	6477.124
10.0	5994.184	5953.723	5768.250	5847.652	5787.544	5439.895	5550.200	5535.854	5744.931	5804.847
12.5	5557.819	5486.386	5362.344	5409.140	5410.176	5125.329	5174.867	5194.041	5333.064	5398.775
15.0	5141.370	5109.666	4990.127	5053.480	5050.756	4820.675	4871.552	4859.980	4979.655	5014.773
17.5	4848.066	4818.509	4730.805	4773.402	4783.092	4564.219	4602.704	4600.713	4692.732	4723.952
20.0	4550.478	4558.579	4462.506	4515.338	4511.034	4281.905	4347.819	4327.958	4424.031	4415.912
22.5	4223.795	4221.722	4162.176	4192.161	4213.926	3859.893	3924.411	3906.163	4016.869	4029.730
25.0	3848.529	3855.203	3769.836	3848.820	3857.589	3385.478	3427.852	3457.857	3569.273	3571.691
27.5	3095.358	3184.954	3019.628	3173.031	3132.237	2602.752	2740.378	2649.638	2833.983	2753.117
30.0	2354.722	2391.130	2297.014	2387.972	2420.014	1864.790	1965.684	1862.361	2009.369	1979.055
32.5	1723.268	1781.870	1689.323	1792.525	1800.611	1424.076	1458.286	1417.087	1472.027	1447.141
35.0	1123.752	1253.068	1144.783	1264.315	1220.753	1007.030	1079.292	981.599	1031.112	957.304
37.5	852.736	910.977	882.722	936.385	951.290	763.579	795.144	745.470	748.912	716.830
40.0	589.269	654.546	633.218	683.541	689.498	528.468	559.615	511.957	523.122	488.039
42.5	415.414	456.527	445.767	485.756	495.172	363.994	378.214	356.514	358.423	337.449
45.0	246.685	287.133	270.724	310.141	307.530	206.663	225.933	202.588	217.083	194.876
47.5	149.554	168.760	162.106	186.298	189.417	117.639	124.030	117.691	123.107	111.616
50.0	56.096	76.646	64.360	84.431	77.508	34.681	50.984	33.289	48.245	35.291
52.5	29.058	31.032	31.757	36.016	40.177	18.070	16.859	18.028	17.630	18.280
55.0	3.137	10.920	3.377	11.883	5.066	2.560	6.097	2.767	6.152	2.791
57.5	3.029	2.957	2.742	3.151	3.296	1.827	1.743	2.028	2.282	2.022
60.0	2.902	1.981	2.089	1.776	1.607	1.154	1.419	1.345	1.874	1.301
62.5	2.128	1.430	1.299	1.366	1.425	1.455	1.138	1.290	1.446	1.144
65.0	1.365	1.134	0.619	1.441	1.233	1.705	0.885	1.247	1.007	0.983
67.5	1.045	1.028	0.802	1.337	0.843	1.035	0.863	1.209	0.806	0.783
70.0	0.725	1.034	0.923	1.143	0.540	0.471	0.986	1.170	0.717	0.629
72.5	0.409	0.911	0.805	1.157	0.772	0.534	0.902	1.113	0.759	0.705
75.0	0.413	0.752	0.644	1.176	0.765	0.622	0.747	0.986	0.824	0.743
77.5	0.888	0.622	0.437	0.838	0.435	0.741	0.625	0.742	0.822	0.733
80.0	0.579	0.508	0.453	0.567	0.661	0.442	0.804	0.702	0.654	0.679
82.5	0.448	0.521	0.391	0.479	0.885	0.367	1.013	0.773	0.583	0.562
85.0	0.565	0.755	0.443	0.672	0.831	0.565	0.934	0.588	0.606	0.711
87.5	0.584	0.710	0.746	0.743	0.527	0.635	0.612	0.549	0.348	0.595
90.0	0.362	0.119	0.396	0.157	1.192	0.717	0.179	0.504	0.113	0.429
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	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675	8298.675
2.5	7998.931	7938.314	7991.126	8168.457	8104.275	8075.509	7952.351
5.0	7392.558	7431.034	7384.981	7911.486	7828.205	7745.897	7532.614
7.5	6722.983	6668.444	6704.882	7225.720	7021.705	7034.587	6735.709
10.0	6028.778	5958.379	6005.037	6420.638	6283.230	6258.806	5994.184
12.5	5540.860	5515.957	5522.902	5862.506	5776.682	5750.941	5557.819
15.0	5137.743	5090.706	5104.010	5379.007	5303.966	5292.375	5141.370
17.5	4802.426	4763.016	4770.328	5004.222	4954.134	4955.854	4848.066
20.0	4496.964	4426.182	4462.971	4664.334	4610.165	4644.297	4550.478
22.5	4091.067	4032.591	4022.616	4318.638	4289.434	4299.399	4223.795
25.0	3638.635	3585.917	3537.833	3970.967	3890.978	3947.148	3848.529
27.5	2932.477	2765.489	2792.434	3298.395	3162.424	3252.358	3095.358
30.0	2100.773	1976.659	1954.839	2506.697	2438.421	2476.377	2354.722
32.5	1511.765	1434.719	1402.490	1832.092	1735.700	1828.328	1723.268
35.0	1048.858	923.484	958.723	1202.842	1102.935	1213.472	1123.752
37.5	736.435	680.956	674.306	838.673	823.460	873.474	852.736
40.0	506.057	447.569	453.912	584.672	561.236	609.611	589.269
42.5	338.124	308.713	301.798	405.516	396.078	425.820	415.414
45.0	206.433	174.732	178.603	259.127	240.847	266.122	246.685
47.5	114.986	98.997	98.349	155.037	146.603	160.265	149.554
50.0	48.012	27.238	37.561	70.750	60.662	71.617	56.096
52.5	16.107	14.765	12.833	29.827	30.747	32.273	29.058
55.0	6.861	2.908	5.296	10.243	4.132	9.948	3.137
57.5	2.563	2.279	2.301	2.995	2.990	3.206	3.029
60.0	1.613	1.654	1.617	2.123	1.917	2.158	2.902
62.5	1.214	1.113	1.424	1.519	1.444	1.607	2.128
65.0	1.206	0.591	1.496	1.064	1.018	1.249	1.365

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX60L-35KXW-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.125	0.598	1.365	0.736	1.050	1.024	1.045
70.0	0.992	0.624	1.130	0.477	1.026	0.851	0.725
72.5	0.797	0.771	0.935	0.603	0.759	0.660	0.409
75.0	0.603	0.956	0.782	0.812	0.670	0.503	0.413
77.5	0.829	1.196	0.897	0.770	0.782	0.537	0.888
80.0	0.768	0.974	0.758	0.578	0.543	0.458	0.579
82.5	0.616	0.848	0.606	0.577	0.591	0.625	0.448
85.0	0.669	0.708	0.543	0.708	0.612	0.969	0.565
87.5	0.429	0.902	0.378	0.399	0.692	0.556	0.584
90.0	0.204	0.355	0.647	0.249	0.545	0.895	0.362
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

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Zone	Lumens	%Lamp	%Fixt
0-20	2085.63	N.A.	44.80
0-30	3686.88	N.A.	79.20
0-40	4434.66	N.A.	95.30
0-60	4651.24	N.A.	99.90
0-80	4653.23	N.A.	100.00
0-90	4653.89	N.A.	100.00
10-90	4001.01	N.A.	86.00
20-40	2349.04	N.A.	50.50
20-50	2552.27	N.A.	54.80
40-70	217.77	N.A.	4.70
60-80	1.99	N.A.	0.00
70-80	0.80	N.A.	0.00
80-90	0.66	N.A.	0.00
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4653.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	652.88
10-20	1432.75
20-30	1601.25
30-40	747.79
40-50	203.24
50-60	13.34
60-70	1.19
70-80	0.80
80-90	0.66
90-100	0.06
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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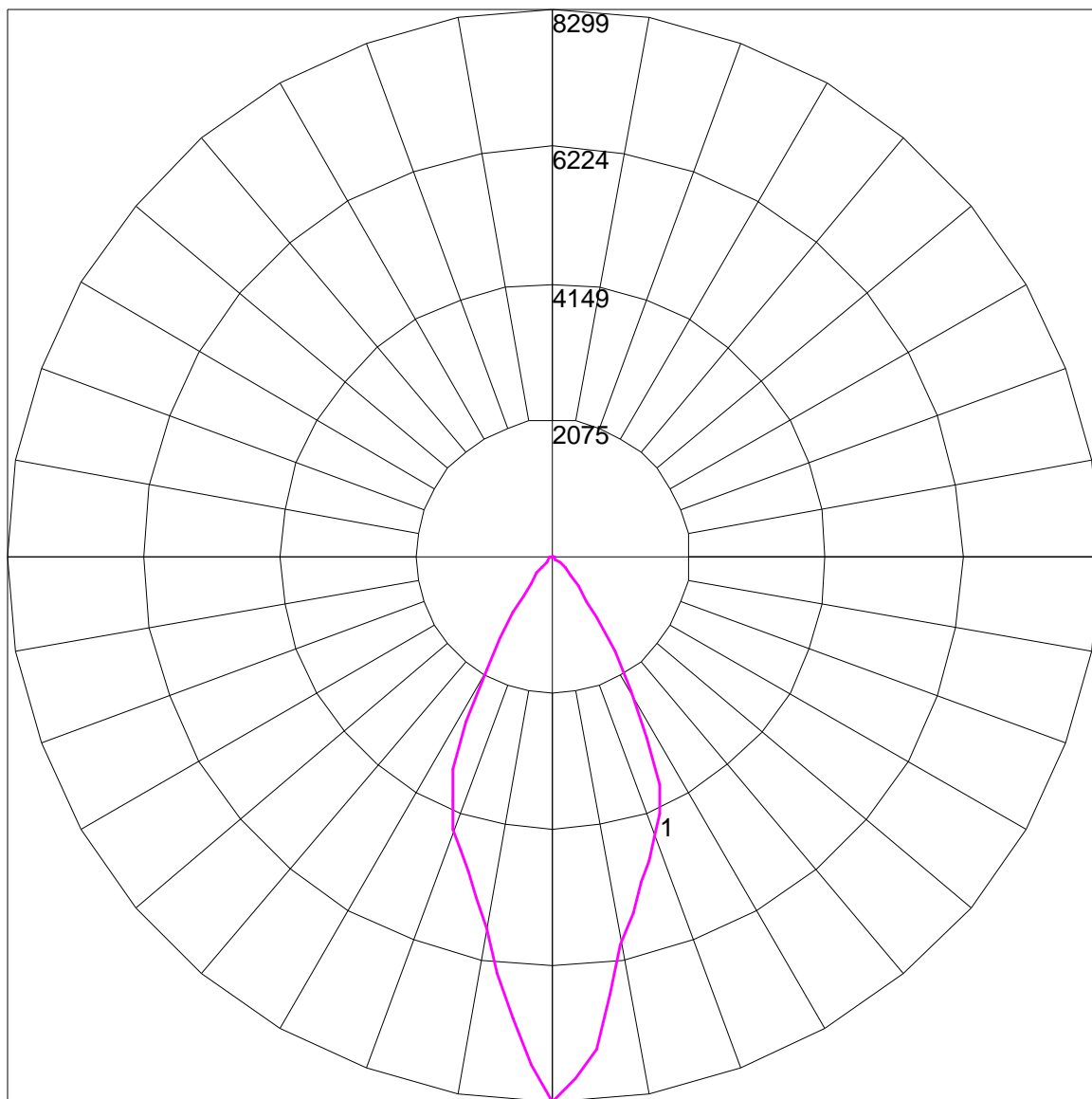
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	78	75	81	78	75	73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX60L-35KXW-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 8298.675 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)