

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00625\_9 ~ SGE6BX60L-35KMD-DO101-AR6BXSGWF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625\_9\_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-MD-DO101-AR6BX-SGWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Semi diffuse aluminum reflector trim

[OTHER] Deep regressed high output LED downlight

[OTHER] BX Series, Medium Beam

[OTHER] 33.6 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	4684
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)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.58
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\_9 ~ SGE6BX60L-35KMD-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	753	761	737
55	197	154	253
65	244	117	76
75	85	92	159
85	520	638	572

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	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251	13379.0251
2.5	13031.3011	13131.8281	12922.0071	13081.2491	12909.9221	13072.7381	12826.1011	13152.1041	12980.5881	13280.072
5.0	12209.2551	12106.6401	12088.4991	12054.5501	11965.0901	11994.1301	12059.0641	12105.5841	12284.0241	12324.099
7.5	11160.3641	11060.5231	11018.9131	10976.4671	10925.8971	10894.8811	10945.6031	11026.0111	11133.9311	11233.932
10.0	9992.867	9894.691	9891.841	9841.787	9837.371	9785.919	9827.385	9856.151	9954.107	10017.636
12.5	8780.569	8722.968	8716.805	8704.325	8705.519	8676.783	8687.142	8684.315	8725.628	8785.843
15.0	7546.543	7520.744	7531.302	7528.256	7552.644	7540.085	7544.903	7527.497	7516.959	7547.612
17.5	6323.887	6320.386	6321.061	6350.842	6370.360	6402.860	6393.992	6370.892	6338.531	6308.699
20.0	5106.511	5128.820	5105.768	5190.771	5174.423	5239.012	5247.563	5231.661	5202.943	5174.107
22.5	3972.929	3953.487	3999.923	4031.064	4031.508	4075.811	4118.628	4093.285	4130.157	4048.971
25.0	2875.320	2848.144	2913.829	2913.436	2911.359	2934.324	2999.356	3001.471	3056.915	2999.794
27.5	1868.600	1800.307	1886.714	1798.097	1885.099	1809.139	1915.673	1918.299	1983.048	1956.331
30.0	898.504	980.490	869.462	1025.546	897.331	1025.134	968.439	1103.563	1107.466	1146.019
32.5	422.048	304.899	447.003	265.366	420.294	277.702	477.423	318.657	492.802	349.754
35.0	131.970	157.328	110.756	148.358	136.105	156.080	94.727	176.729	126.704	183.699
37.5	43.082	40.048	50.370	34.734	46.438	42.251	55.345	42.144	66.291	46.428
40.0	25.227	25.524	26.530	23.435	26.718	29.043	24.353	27.986	29.007	30.870
42.5	15.721	13.542	16.992	12.542	16.222	16.563	17.681	14.595	19.084	19.145
45.0	8.963	9.581	9.049	9.561	8.767	12.284	11.621	10.780	12.098	12.785
47.5	5.529	6.255	6.145	6.632	6.492	8.197	7.251	7.089	8.362	6.520
50.0	3.113	4.800	3.742	4.537	5.838	5.874	3.803	4.748	5.971	4.392
52.5	2.282	3.556	2.567	2.604	4.271	3.728	2.693	2.579	5.008	2.297
55.0	1.902	2.887	1.489	2.659	2.446	3.045	1.873	1.938	4.001	1.901
57.5	1.579	2.244	1.703	2.652	1.681	2.338	1.757	1.379	2.947	1.525
60.0	1.271	1.663	2.006	1.981	1.202	1.467	1.649	1.481	2.055	2.017
62.5	1.446	1.254	1.440	1.441	0.857	0.731	1.561	1.479	1.316	2.465
65.0	1.738	1.255	0.830	2.043	0.544	0.872	1.404	0.748	1.012	1.680
67.5	1.357	1.170	0.705	2.583	0.648	0.961	1.104	0.208	1.095	0.948
70.0	0.855	0.936	0.574	2.855	0.813	0.821	0.851	0.625	0.956	0.772
72.5	0.498	0.719	0.369	2.482	0.677	0.673	0.663	0.884	0.672	0.607
75.0	0.371	0.526	0.402	1.297	0.694	0.515</				

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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	13379.0251	3379.0251	3379.0251	3379.0251	3379.0251	3379.0251	3379.025
2.5	13091.4941	3435.2191	3218.6801	3481.2751	3138.7801	3342.8031	3031.301
5.0	12505.0551	2439.8241	2633.6401	2494.1491	2556.7271	2333.3711	2209.255
7.5	11296.4801	1421.1281	1432.2771	11492.2031	11420.8691	11311.3991	1160.364
10.0	10074.2031	10155.6751	10195.9551	10208.2361	10198.8121	10095.6959	9992.867
12.5	8806.500	8888.040	8902.404	8924.307	8909.214	8876.101	8780.569
15.0	7547.349	7600.608	7617.442	7640.911	7609.971	7607.790	7546.543
17.5	6314.100	6326.871	6345.586	6365.999	6359.726	6347.234	6323.887
20.0	5120.892	5161.171	5151.265	5193.879	5115.441	5167.992	5106.511
22.5	4042.815	4011.058	4068.952	4034.780	4050.083	3998.975	3972.929
25.0	2976.540	2969.372	3007.144	3008.367	3004.338	2921.745	2875.320
27.5	1941.421	1955.035	1973.398	1999.882	1990.606	1873.863	1868.600
30.0	1045.594	1110.321	1119.691	1148.354	979.737	1055.467	898.504
32.5	500.393	366.853	499.496	374.550	517.577	321.378	422.048
35.0	105.273	188.269	127.203	195.094	96.072	169.300	131.970
37.5	58.702	37.168	59.759	37.113	46.894	36.701	43.082
40.0	24.116	25.007	20.092	24.410	19.733	24.089	25.227
42.5	15.696	14.160	12.821	12.919	12.934	12.772	15.721
45.0	8.924	9.368	8.303	8.754	7.043	8.638	8.963
47.5	5.540	5.226	6.829	5.024	4.658	4.858	5.529
50.0	3.215	3.830	5.122	3.665	2.380	2.852	3.113
52.5	2.940	2.715	3.168	2.507	2.082	1.233	2.282
55.0	2.516	2.693	2.141	2.333	1.816	1.382	1.902
57.5	1.813	2.487	2.039	2.171	1.598	1.408	1.579
60.0	1.279	1.626	1.717	2.062	1.377	0.925	1.271
62.5	1.034	1.018	1.187	1.878	0.866	0.667	1.446
65.0	0.880	1.246	0.951	1.384	0.388	1.276	1.738

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_9 ~ SGE6BX60L-35KMD-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.870	1.430	0.976	0.970	0.622	1.570	1.357
70.0	0.676	1.490	0.870	0.765	0.799	1.072	0.855
72.5	0.281	1.354	0.677	0.687	0.746	0.851	0.498
75.0	0.708	0.962	0.618	0.727	0.616	0.879	0.371
77.5	1.206	0.958	0.695	0.744	0.426	0.427	0.613
80.0	0.837	0.869	1.091	0.577	0.329	0.307	1.078
82.5	0.549	0.463	0.827	0.461	0.445	0.458	1.063
85.0	0.592	0.479	0.657	0.806	0.974	0.487	0.763
87.5	0.355	0.508	0.806	0.597	0.618	0.457	0.608
90.0	0.537	0.582	0.699	0.000	0.000	0.000	0.000
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\_9 ~ SGE6BX60L-35KMD-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3173.01	N.A.	67.70
0-30	4505.99	N.A.	96.20
0-40	4670.3	N.A.	99.70
0-60	4681.26	N.A.	99.90
0-80	4683.31	N.A.	100.00
0-90	4684.02	N.A.	100.00
10-90	3586.26	N.A.	76.60
20-40	1497.29	N.A.	32.00
20-50	1506.00	N.A.	32.20
40-70	12.15	N.A.	0.30
60-80	2.05	N.A.	0.00
70-80	0.86	N.A.	0.00
80-90	0.71	N.A.	0.00
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4684.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1097.77
10-20	2075.25
20-30	1332.98
30-40	164.31
40-50	8.71
50-60	2.24
60-70	1.19
70-80	0.86
80-90	0.71
90-100	0.04
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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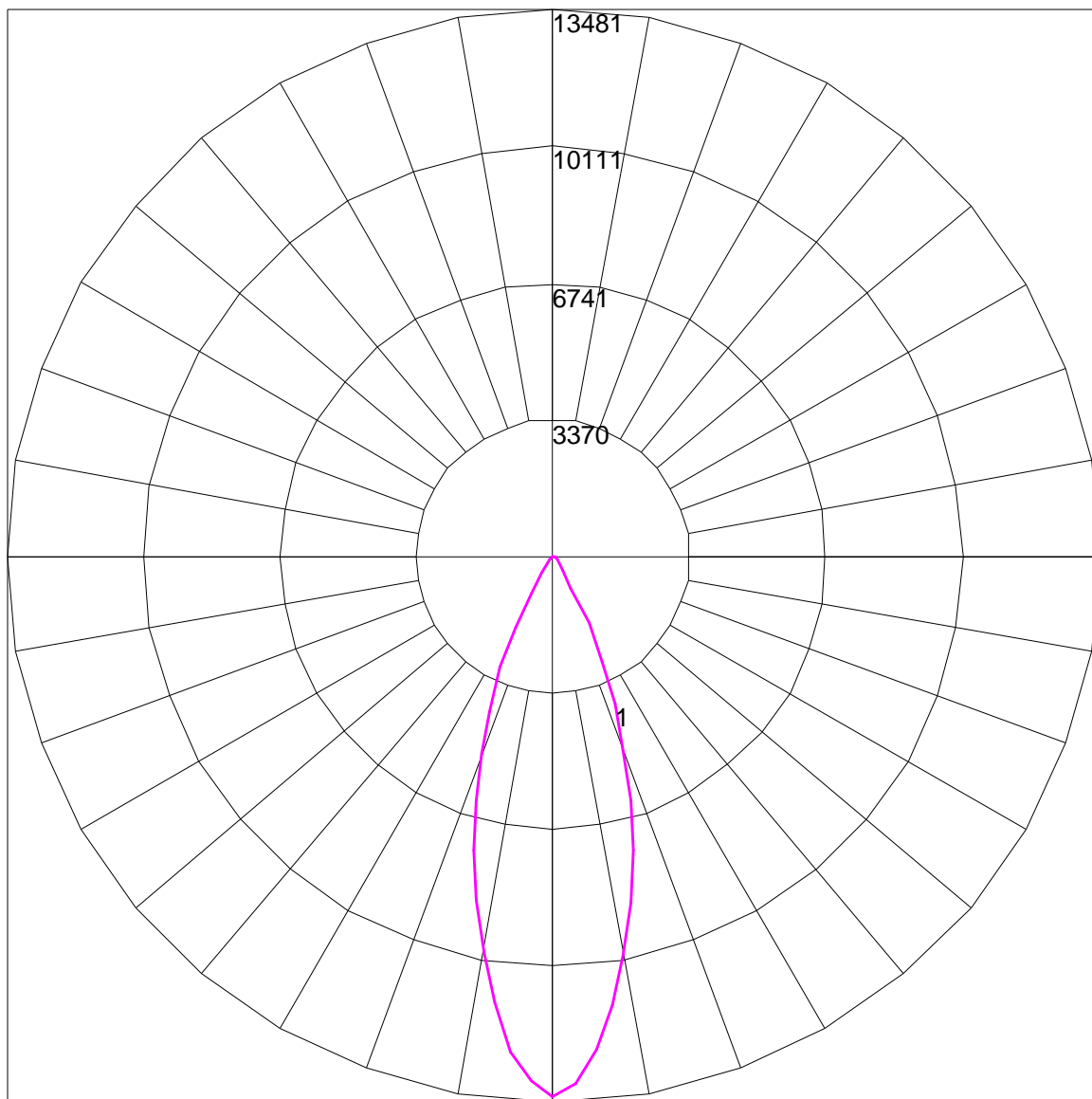
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	107	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	82	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	84	81	79	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70
10	84	76	72	69	83	76	72	69	75	71	69	75	71	68	74	71	68	67

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POLAR GRAPH



Maximum Candela = 13481.275 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)