

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX60L-35KWD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_12_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-WD-DO101-AR6BX-MWWF

[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, Wide Beam

[OTHER] 48.6 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	4736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.76
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_12 ~ SGE6BX60L-35KWD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19305	19863	20162
55	11111	11559	11282
65	11246	11537	11176
75	8070	7397	7771
85	2258	2492	3263

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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	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712
2.5	7373.055	7313.256	7428.559	7301.235	7421.943	7296.970	7388.772	7257.218	7337.314	7278.807
5.0	6978.080	6993.145	6932.580	6968.565	6900.564	6935.280	6860.086	6904.685	6862.841	6950.866
7.5	6436.189	6456.106	6402.438	6418.387	6384.613	6362.128	6339.781	6369.969	6384.231	6413.997
10.0	5972.021	5904.841	5941.245	5855.452	5911.988	5871.915	5883.883	5845.184	5899.887	5908.286
12.5	5537.686	5533.190	5485.344	5495.037	5461.586	5477.653	5449.583	5487.866	5484.589	5524.666
15.0	5183.867	5165.449	5157.937	5137.620	5131.183	5124.648	5128.634	5134.216	5149.035	5155.025
17.5	4853.955	4839.347	4830.788	4816.710	4802.869	4811.516	4808.181	4813.249	4821.036	4827.725
20.0	4515.465	4507.557	4506.819	4490.164	4482.675	4481.291	4489.610	4483.236	4500.223	4490.535
22.5	4175.039	4110.569	4151.381	4103.993	4106.502	4137.468	4112.096	4101.696	4091.714	4129.899
25.0	3561.046	3661.400	3572.980	3663.318	3565.170	3578.759	3560.902	3643.958	3614.556	3638.410
27.5	2904.138	2858.819	2950.280	2872.839	2936.561	2879.987	2930.780	2877.101	2933.240	2894.672
30.0	2110.150	2083.159	2109.111	2108.009	2102.391	2153.600	2118.080	2142.362	2119.087	2178.329
32.5	1303.072	1435.681	1365.537	1457.507	1409.984	1412.361	1443.188	1507.865	1517.335	1504.836
35.0	947.666	880.617	974.061	901.319	984.980	978.938	1023.940	982.356	1027.829	1002.044
37.5	613.300	649.430	640.652	664.212	655.181	678.227	693.753	722.271	723.867	717.897
40.0	457.686	448.248	467.917	458.578	473.435	487.217	499.885	501.335	499.742	498.323
42.5	306.117	328.016	322.156	335.263	331.384	334.023	347.740	357.763	356.913	347.774
45.0	229.703	228.577	236.336	233.819	239.894	244.589	247.929	243.559	241.530	240.301
47.5	158.483	174.282	170.484	178.531	176.176	171.891	177.852	176.377	177.518	170.755
50.0	134.252	134.084	140.315	137.401	141.569	140.659	138.474	130.611	126.667	129.931
52.5	112.786	118.538	119.229	120.386	119.667	117.294	114.515	112.904	108.260	110.190
55.0	107.243	107.269	111.560	108.032	108.891	107.209	103.852	100.961	95.990	99.183
57.5	101.697	102.190	104.921	102.163	101.832	98.842	97.113	95.320	90.667	93.415
60.0	96.144	96.624	99.532	96.652	97.449	94.508	93.152	89.773	86.208	88.862
62.5	89.606	90.478	91.905	91.559	89.521	90.460	87.074	84.310	80.876	84.900
65.0	79.974	81.546	82.047	82.112	79.480	79.629	79.752	77.172	75.483	78.358
67.5	69.760	70.018	70.302	68.745	69.589	68.703	69.823	68.775	66.011	70.806
70.0	58.411	56.989	57.233	56.188	59.756	58.525	58.753	57.477	56.465	60.620
72.5	46.834	43.285	44.161	44.066	45.950	47.911	46.818	44.773	46.694	49.755
75.0	35.147	32.029	32.216	33.686	33.844	36.231	35.361	33.311	36.530	37.584
77.5	24.762	22.434	23.745	23.672	24.781	25.303	25.990	23.546	25.905	26.636
80.0	15.892	14.700	15.945	15.093	16.183	15.998	17.349	16.492	16.842	17.284
82.5	8.009	8.372	8.673	9.330	8.722	9.777	10.735	10.778	9.571	10.346
85.0	3.312	3.336	3.655	4.382	4.786	3.925	5.683	4.536	4.538	4.118
87.5	1.693	0.852	1.203	1.880	2.067	1.413	1.566	1.338	1.382	2.461
90.0	0.000	0.000	0.000	0.000	0.000	0.796	0.586	0.805	0.717	0.777
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	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712	7502.712
2.5	7404.081	7295.127	7433.340	7338.364	7457.945	7314.445	7373.055
5.0	6903.673	6978.953	6927.240	6943.735	6956.931	7022.532	6978.080
7.5	6409.214	6441.842	6413.819	6468.697	6447.554	6481.999	6436.189
10.0	5946.026	5932.894	5956.643	5955.494	5985.281	5961.057	5972.021
12.5	5509.270	5541.215	5509.078	5550.506	5531.708	5566.478	5537.686
15.0	5175.163	5166.196	5173.799	5186.239	5185.331	5182.372	5183.867
17.5	4843.274	4843.338	4839.127	4848.792	4840.072	4846.261	4853.955
20.0	4517.928	4507.118	4508.752	4519.289	4503.018	4501.336	4515.465
22.5	4126.536	4138.275	4135.037	4098.683	4126.428	4126.488	4175.039
25.0	3582.232	3637.626	3552.961	3658.068	3554.606	3640.116	3561.046
27.5	2944.238	2875.819	2920.992	2879.603	2925.504	2861.193	2904.138
30.0	2129.575	2149.408	2109.084	2049.916	2089.526	2110.577	2110.150
32.5	1464.369	1479.814	1405.805	1465.843	1366.548	1419.866	1303.072
35.0	1028.106	976.199	1003.010	905.100	962.296	892.653	947.666
37.5	693.352	693.724	666.202	664.381	627.924	644.624	613.300
40.0	486.022	476.087	473.583	437.141	448.965	445.334	457.686
42.5	331.184	329.485	317.385	319.692	303.658	314.965	306.117
45.0	231.350	226.932	226.255	206.261	218.539	219.191	229.703
47.5	164.950	164.133	158.956	161.840	156.308	163.595	158.483
50.0	127.407	125.835	126.336	120.870	127.911	128.727	134.252
52.5	106.836	105.984	105.868	109.824	109.245	113.683	112.786
55.0	98.473	95.807	99.916	99.887	102.378	104.065	107.243
57.5	92.858	91.586	94.051	96.318	96.959	98.779	101.697
60.0	88.854	86.768	88.272	92.053	93.007	93.330	96.144
62.5	83.448	81.647	81.595	84.949	86.893	87.774	89.606
65.0	77.378	74.084	74.179	77.138	78.977	79.035	79.974

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX60L-35KWD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	69.291	65.534	65.989	67.284	69.179	68.633	69.760
70.0	60.484	56.533	57.294	56.986	58.272	55.567	58.411
72.5	48.699	47.405	46.061	46.094	45.763	42.530	46.834
75.0	37.364	37.788	34.487	34.924	33.763	34.287	35.147
77.5	28.505	28.192	26.560	24.357	24.097	24.594	24.762
80.0	19.245	18.677	17.571	15.263	15.978	15.423	15.892
82.5	10.761	10.248	9.175	6.683	9.740	9.194	8.009
85.0	5.166	4.842	4.137	3.627	4.243	4.034	3.312
87.5	2.330	2.206	2.120	1.496	1.223	1.268	1.693
90.0	0.649	0.534	1.126	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

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Zone	Lumens	%Lamp	%Fixt
0-20	2076.4	N.A.	43.80
0-30	3656.91	N.A.	77.20
0-40	4323.33	N.A.	91.30
0-60	4615.05	N.A.	97.50
0-80	4729.27	N.A.	99.90
0-90	4735.73	N.A.	100.00
10-90	4106.73	N.A.	86.70
20-40	2246.93	N.A.	47.40
20-50	2443.49	N.A.	51.60
40-70	368.20	N.A.	7.80
60-80	114.22	N.A.	2.40
70-80	37.74	N.A.	0.80
80-90	6.45	N.A.	0.10
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	4735.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	628.99
10-20	1447.41
20-30	1580.51
30-40	666.42
40-50	196.56
50-60	95.16
60-70	76.48
70-80	37.74
80-90	6.45
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

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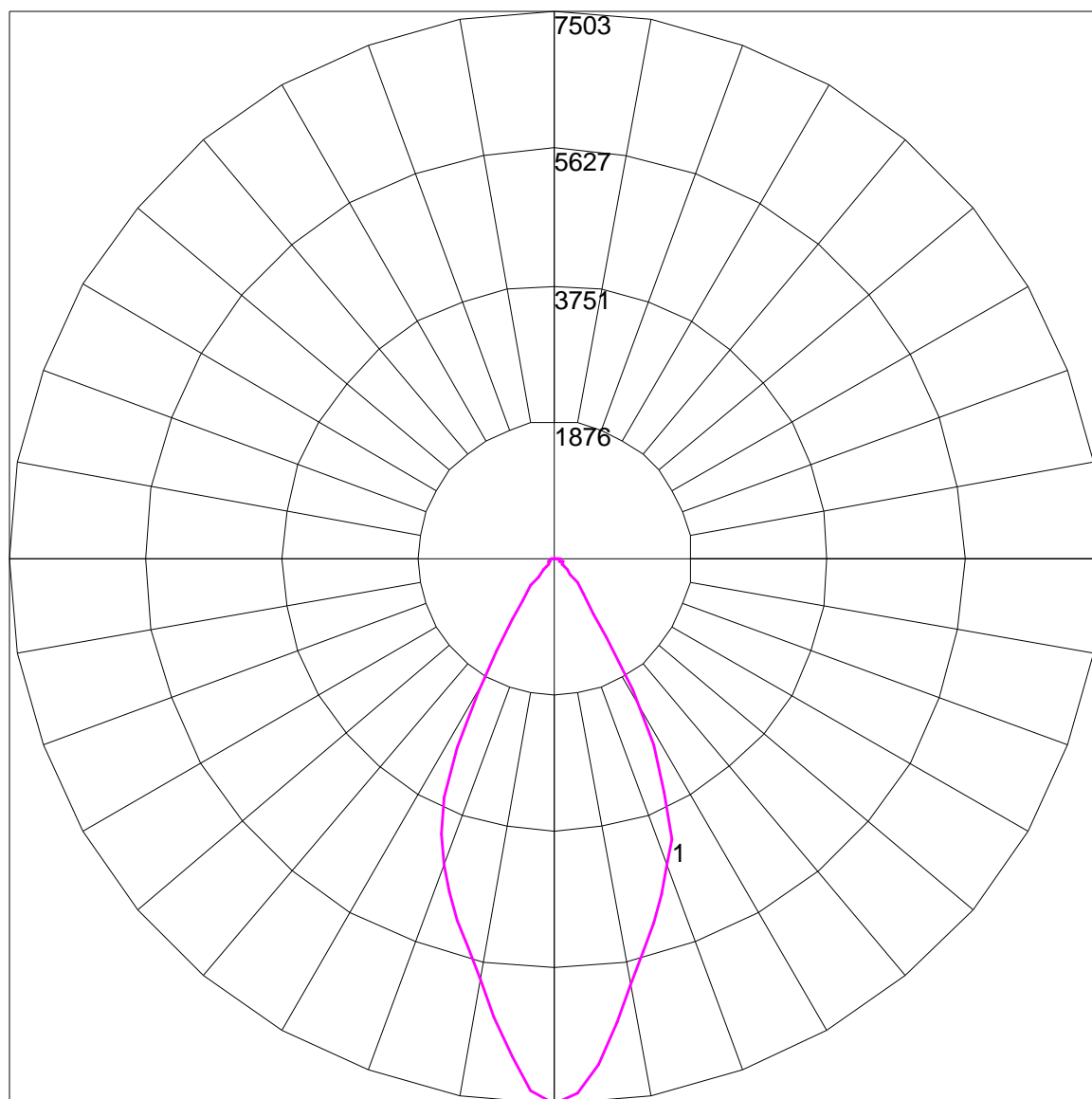
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	80	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	64	63
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	56
10	74	65	59	55	73	64	59	55	63	59	55	63	58	55	62	58	55	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX60L-35KWD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 7502.712 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)