

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_11 ~ SGE6BX60L-35KND-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_11_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-60L-35K-ND-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, Medium Beam

[OTHER] 23.7 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	4710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.42
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_11 ~ SGE6BX60L-35KND-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1165	991	860
55	218	212	214
65	193	189	185
75	275	132	154
85	380	304	475

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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	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579
2.5	19802.849	20013.421	19778.354	19991.503	20055.815	19143.716	19400.847	19093.981	19347.851	19319.229
5.0	18163.028	18526.892	18461.683	18846.061	18767.440	17149.597	17379.253	17122.588	17507.489	17031.235
7.5	15781.582	16251.277	16033.165	16612.299	16719.719	14489.400	14807.696	14447.037	14732.699	14383.738
10.0	12557.799	13326.227	12995.377	13876.080	13661.707	11191.479	11829.043	11258.305	11823.092	11081.385
12.5	9660.557	10035.313	10086.439	10528.705	10682.096	8435.939	8681.860	8576.053	8793.648	8224.492
15.0	7142.538	7549.368	7248.724	7773.356	7807.647	6196.411	6527.048	6265.907	6486.094	6186.039
17.5	5236.569	5520.792	5355.866	5733.558	5590.101	4558.757	4779.952	4650.350	4834.597	4534.008
20.0	4036.898	4176.667	3989.774	4193.377	4260.785	3506.534	3659.158	3549.256	3651.013	3598.145
22.5	3081.643	3224.780	3046.120	3270.698	3185.875	2622.777	2802.629	2675.456	2889.987	2763.919
25.0	2410.692	2429.334	2340.012	2439.747	2457.761	1901.849	2041.005	1971.373	2158.339	2119.707
27.5	1729.875	1724.308	1641.000	1721.445	1746.541	1257.570	1319.123	1320.440	1453.815	1483.172
30.0	1037.492	1112.539	946.015	1090.977	1058.539	689.034	798.788	708.937	878.710	861.114
32.5	535.695	555.131	507.756	570.820	544.998	318.810	365.115	332.890	422.346	384.946
35.0	259.142	251.476	214.109	226.814	273.158	143.319	163.417	135.514	156.870	186.324
37.5	88.070	96.998	79.564	102.622	94.353	46.162	60.717	41.264	70.459	49.267
40.0	42.658	31.779	36.810	28.838	45.494	27.649	23.499	24.766	23.979	30.367
42.5	16.623	19.477	17.567	19.386	14.960	15.597	14.970	14.399	14.720	16.079
45.0	13.859	12.484	11.794	12.208	10.232	9.993	10.479	8.759	8.705	10.721
47.5	10.360	8.662	7.696	7.915	6.618	6.362	7.743	5.535	5.781	6.585
50.0	5.974	5.924	4.579	4.868	4.587	4.744	5.833	4.162	3.961	4.837
52.5	3.109	3.840	2.895	3.437	3.005	3.650	4.292	3.052	3.186	3.491
55.0	2.102	2.544	2.046	2.342	2.064	3.086	3.266	2.152	2.625	2.940
57.5	1.493	1.731	1.449	1.676	1.483	2.487	2.471	1.783	2.271	2.426
60.0	1.373	1.223	1.004	1.180	1.420	1.851	2.448	1.830	1.805	1.985
62.5	1.327	0.904	1.033	0.907	1.362	1.449	2.771	1.648	1.231	1.650
65.0	1.373	0.875	1.344	0.757	1.313	1.284	2.343	1.286	0.901	1.527
67.5	1.162	1.020	0.980	0.761	1.238	1.036	1.582	1.136	0.804	1.400
70.0	0.675	0.837	0.260	0.872	1.129	0.711	1.353	1.132	0.778	1.265
72.5	0.801	0.521	0.361	1.072	0.926	0.934	1.287	0.942	0.800	1.287
75.0	1.196	0.572	0.576	1.100	0.669	1.332	1.547	0.805	0.677	1.425
77.5	0.793	0.539	0.517	1.081	0.344	1.099	1.318	1.393	0.609	1.129
80.0	0.653	0.401	0.397	1.039	0.428	1.532	0.616	1.829	0.677	1.082
82.5	0.659	0.496	0.375	1.110	0.630	2.043	0.311	1.524	0.790	1.090
85.0	0.557	0.820	0.446	0.610	0.697	1.637	0.543	0.872	0.467	0.630
87.5	0.704	0.914	0.919	0.624	0.771	0.678	0.644	0.791	0.902	0.604
90.0	0.600	0.348	0.361	0.715	0.458	0.260	0.793	0.557	0.401	0.607
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	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579	20138.579
2.5	19299.203	19102.432	19138.100	19982.322	19998.730	19872.875	19802.849
5.0	17569.322	16855.051	16962.052	18678.087	18176.525	18633.892	18163.028
7.5	14457.161	14007.659	13841.090	16121.241	15932.791	16025.930	15781.582
10.0	11419.144	10647.744	10858.979	13235.977	12622.657	13171.575	12557.799
12.5	8519.987	7990.982	7983.792	9999.441	9587.575	9970.797	9660.557
15.0	6144.921	5931.032	5923.551	7429.554	7242.954	7355.345	7142.538
17.5	4760.074	4466.020	4495.867	5578.353	5243.133	5569.573	5236.569
20.0	3617.907	3509.998	3491.443	4206.461	4132.815	4171.755	4036.898
22.5	2938.293	2730.438	2818.200	3355.408	3160.174	3328.353	3081.643
25.0	2248.923	2103.051	2131.691	2599.101	2539.934	2550.568	2410.692
27.5	1540.794	1467.617	1434.719	1946.571	1898.161	1867.322	1729.875
30.0	927.255	825.189	871.164	1319.272	1200.729	1232.655	1037.492
32.5	497.198	405.322	413.692	719.827	613.213	668.557	535.695
35.0	181.509	180.458	157.713	317.827	312.625	272.965	259.142
37.5	89.631	59.051	63.231	135.536	83.809	124.170	88.070
40.0	25.298	29.014	17.481	32.789	44.211	31.243	42.658
42.5	15.345	12.632	11.101	19.260	14.158	20.816	16.623
45.0	7.881	8.407	7.281	9.984	9.517	12.396	13.859
47.5	5.375	5.128	5.545	5.518	5.716	6.963	10.360
50.0	3.358	2.700	3.832	2.705	4.178	3.368	5.974
52.5	2.323	1.653	2.139	1.775	2.892	2.533	3.109
55.0	1.699	1.857	1.319	1.260	2.291	1.928	2.102
57.5	1.905	1.845	1.221	1.219	1.721	1.674	1.493
60.0	1.799	1.634	0.988	1.302	1.237	1.657	1.373
62.5	1.053	1.555	0.643	1.529	1.009	2.003	1.327
65.0	0.575	1.597	0.695	1.404	1.489	1.922	1.373

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_11 ~ SGE6BX60L-35KND-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.621	1.320	1.073	0.883	1.632	1.209	1.162
70.0	0.721	0.788	1.119	0.688	1.033	0.971	0.675
72.5	0.890	0.624	0.978	0.743	0.977	1.197	0.801
75.0	0.762	0.616	0.806	0.687	1.441	1.029	1.196
77.5	0.562	0.797	0.608	0.812	1.108	0.814	0.793
80.0	0.479	0.704	0.378	1.373	1.125	0.757	0.653
82.5	0.511	0.696	0.424	0.508	1.230	0.783	0.659
85.0	0.309	0.948	0.515	0.252	0.581	1.028	0.557
87.5	0.457	0.998	0.496	0.958	0.900	0.930	0.704
90.0	0.614	0.551	0.431	0.313	0.899	0.448	0.600
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	3468.48	N.A.	73.60
0-30	4504.2	N.A.	95.60
0-40	4695.44	N.A.	99.70
0-60	4707.22	N.A.	99.90
0-80	4709.4	N.A.	100.00
0-90	4710.21	N.A.	100.00
10-90	3187.32	N.A.	67.70
20-40	1226.96	N.A.	26.00
20-50	1236.53	N.A.	26.30
40-70	13.02	N.A.	0.30
60-80	2.18	N.A.	0.00
70-80	0.94	N.A.	0.00
80-90	0.81	N.A.	0.00
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4710.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1522.89
10-20	1945.6
20-30	1035.72
30-40	191.24
40-50	9.58
50-60	2.20
60-70	1.24
70-80	0.94
80-90	0.81
90-100	0.07
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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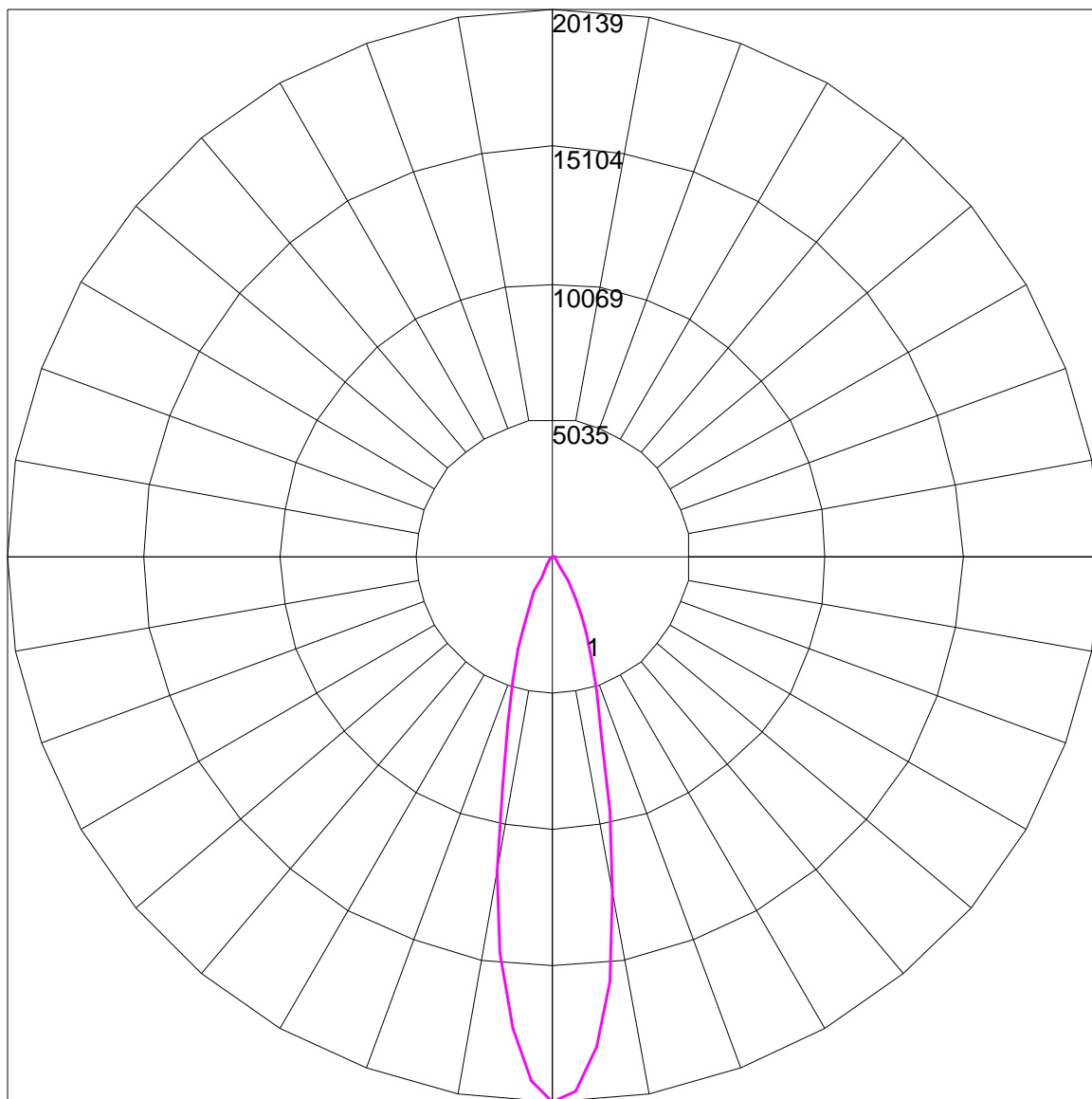
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	98	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	94	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	80	78	84	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	74
10	87	80	76	73	86	79	76	73	79	75	73	78	75	73	78	75	72	71

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_11 ~ SGE6BX60L-35KND-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 20138.579 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)