

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_11 ~ SGE6BX70L-35KND-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_11_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-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	5355
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	51
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 ~ SGE6BX70L-35KND-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1324	1127	978
55	248	241	243
65	220	215	210
75	312	150	175
85	432	346	540

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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	22894.38622894.38622894.38622894.38622894.38622894.38622894.38622894.38622894.38622894.38622894.386									
2.5	22512.71422752.10122484.86622727.18322800.29521763.38322055.70021706.84321995.45321962.914									
5.0	20648.49521062.15220988.02021424.99621335.61719496.38519757.46819465.67919903.25119361.826									
7.5	17941.16818475.13718227.17818885.56219007.68216472.16016834.01316424.00116748.75416352.039									
10.0	14276.23515149.81714773.69215774.91215531.20412722.94513447.75412798.91613440.98912597.786									
12.5	10982.52911408.56711466.68911969.47612143.8579590.331 9869.904 9749.618 9996.990 9349.949									
15.0	8119.938 8582.440 8240.655 8837.079 8876.062 7044.341 7420.223 7123.348 7373.665 7032.550									
17.5	5953.152 6276.269 6088.774 6518.151 6355.062 5182.587 5434.051 5286.713 5496.174 5154.451									
20.0	4589.316 4748.211 4535.744 4767.207 4843.840 3986.376 4159.885 4034.944 4150.625 4090.523									
22.5	3503.342 3666.065 3462.958 3718.267 3621.837 2981.683 3186.147 3041.571 3285.459 3142.139									
25.0	2740.576 2761.769 2660.224 2773.607 2794.086 2162.102 2320.301 2241.140 2453.691 2409.772									
27.5	1966.595 1960.266 1865.558 1957.011 1985.541 1429.659 1499.634 1501.132 1652.759 1686.132									
30.0	1179.465 1264.781 1075.469 1240.269 1203.392 783.323 908.096 805.950 998.955 978.951									
32.5	609.001 631.096 577.238 648.932 619.577 362.437 415.079 378.443 480.140 437.623									
35.0	294.603 285.889 243.408 257.851 310.538 162.931 185.780 154.058 178.337 211.821									
37.5	100.121 110.271 90.452 116.665 107.265 52.479 69.026 46.911 80.101 56.009									
40.0	48.495 36.127 41.847 32.784 51.719 31.432 26.715 28.155 27.260 34.522									
42.5	18.898 22.143 19.970 22.039 17.007 17.732 17.019 16.369 16.735 18.279									
45.0	15.756 14.192 13.408 13.878 11.632 11.361 11.913 9.958 9.896 12.188									
47.5	11.778 9.847 8.749 8.999 7.524 7.233 8.802 6.293 6.572 7.487									
50.0	6.791 6.735 5.206 5.534 5.215 5.393 6.631 4.731 4.503 5.498									
52.5	3.535 4.365 3.291 3.908 3.416 4.149 4.879 3.470 3.622 3.969									
55.0	2.390 2.893 2.326 2.662 2.347 3.508 3.713 2.446 2.984 3.343									
57.5	1.697 1.967 1.648 1.905 1.686 2.827 2.809 2.027 2.582 2.758									
60.0	1.560 1.390 1.141 1.342 1.614 2.105 2.783 2.081 2.052 2.257									
62.5	1.509 1.028 1.174 1.032 1.548 1.647 3.150 1.874 1.400 1.876									
65.0	1.561 0.994 1.528 0.861 1.493 1.460 2.664 1.462 1.025 1.736									
67.5	1.321 1.159 1.114 0.865 1.407 1.178 1.799 1.292 0.914 1.591									
70.0	0.767 0.951 0.295 0.991 1.284 0.809 1.538 1.287 0.885 1.438									
72.5	0.911 0.592 0.410 1.219 1.053 1.062 1.464 1.071 0.909 1.463									
75.0	1.360 0.651 0.655 1.250 0.760 1.515 1.758 0.915 0.770 1.620									
77.5	0.902 0.613 0.588 1.229 0.391 1.249 1.498 1.584 0.692 1.284									
80.0	0.742 0.455 0.452 1.181 0.486 1.742 0.701 2.080 0.770 1.230									
82.5	0.749 0.564 0.426 1.262 0.716 2.322 0.353 1.732 0.899 1.239									
85.0	0.633 0.932 0.507 0.694 0.792 1.861 0.617 0.991 0.530 0.716									
87.5	0.800 1.039 1.045 0.709 0.876 0.771 0.733 0.899 1.026 0.687									
90.0	0.682 0.396 0.410 0.813 0.520 0.295 0.901 0.633 0.455 0.690									
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	22894.386	22894.386	22894.386	22894.386	22894.386	22894.386	22894.386
2.5	21940.148	21716.450	21756.999	22716.746	22735.399	22592.322	22512.714
5.0	19973.546	19161.532	19283.176	21234.036	20663.839	21183.794	20648.495
7.5	16435.510	15924.498	15735.135	18327.307	18113.068	18218.952	17941.168
10.0	12981.764	12104.804	12344.945	15047.217	14349.969	14974.002	14276.235
12.5	9685.881	9084.485	9076.312	11367.787	10899.559	11335.222	10982.529
15.0	6985.806	6742.647	6734.142	8446.230	8234.096	8361.866	8119.938
17.5	5411.452	5077.160	5111.091	6341.707	5960.614	6331.726	5953.152
20.0	4112.989	3990.313	3969.220	4782.082	4698.359	4742.627	4589.316
22.5	3340.375	3104.076	3203.849	3814.569	3592.619	3783.812	3503.342
25.0	2556.670	2390.837	2423.397	2954.768	2887.504	2899.593	2740.576
27.5	1751.640	1668.449	1631.049	2212.944	2157.909	2122.851	1966.595
30.0	1054.143	938.110	990.376	1499.804	1365.039	1401.335	1179.465
32.5	565.236	460.788	470.302	818.330	697.126	760.044	609.001
35.0	206.347	205.152	179.295	361.319	355.406	310.319	294.603
37.5	101.897	67.132	71.884	154.083	95.278	141.161	100.121
40.0	28.760	32.984	19.873	37.276	50.261	35.518	48.495
42.5	17.445	14.361	12.620	21.895	16.095	23.665	18.898
45.0	8.960	9.558	8.277	11.350	10.819	14.093	15.756
47.5	6.110	5.830	6.304	6.274	6.498	7.916	11.778
50.0	3.817	3.069	4.356	3.075	4.749	3.829	6.791
52.5	2.640	1.879	2.432	2.018	3.288	2.880	3.535
55.0	1.931	2.112	1.499	1.433	2.604	2.192	2.390
57.5	2.165	2.097	1.388	1.386	1.957	1.903	1.697
60.0	2.045	1.858	1.123	1.480	1.407	1.884	1.560
62.5	1.198	1.768	0.731	1.738	1.147	2.277	1.509
65.0	0.653	1.815	0.791	1.597	1.693	2.185	1.561

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_11 ~ SGE6BX70L-35KND-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.706	1.501	1.220	1.004	1.856	1.375	1.321
70.0	0.820	0.896	1.272	0.782	1.174	1.103	0.767
72.5	1.012	0.709	1.112	0.845	1.111	1.361	0.911
75.0	0.867	0.700	0.917	0.781	1.638	1.170	1.360
77.5	0.638	0.906	0.691	0.923	1.260	0.925	0.902
80.0	0.544	0.800	0.429	1.561	1.279	0.861	0.742
82.5	0.581	0.791	0.482	0.577	1.398	0.890	0.749
85.0	0.351	1.077	0.586	0.286	0.661	1.168	0.633
87.5	0.519	1.134	0.564	1.090	1.023	1.058	0.800
90.0	0.698	0.626	0.490	0.356	1.022	0.510	0.682
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	3943.12	N.A.	73.60
0-30	5120.56	N.A.	95.60
0-40	5337.97	N.A.	99.70
0-60	5351.37	N.A.	99.90
0-80	5353.84	N.A.	100.00
0-90	5354.76	N.A.	100.00
10-90	3623.48	N.A.	67.70
20-40	1394.86	N.A.	26.00
20-50	1405.74	N.A.	26.30
40-70	14.80	N.A.	0.30
60-80	2.48	N.A.	0.00
70-80	1.07	N.A.	0.00
80-90	0.92	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	5354.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1731.28
10-20	2211.84
20-30	1177.45
30-40	217.41
40-50	10.89
50-60	2.51
60-70	1.41
70-80	1.07
80-90	0.92
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

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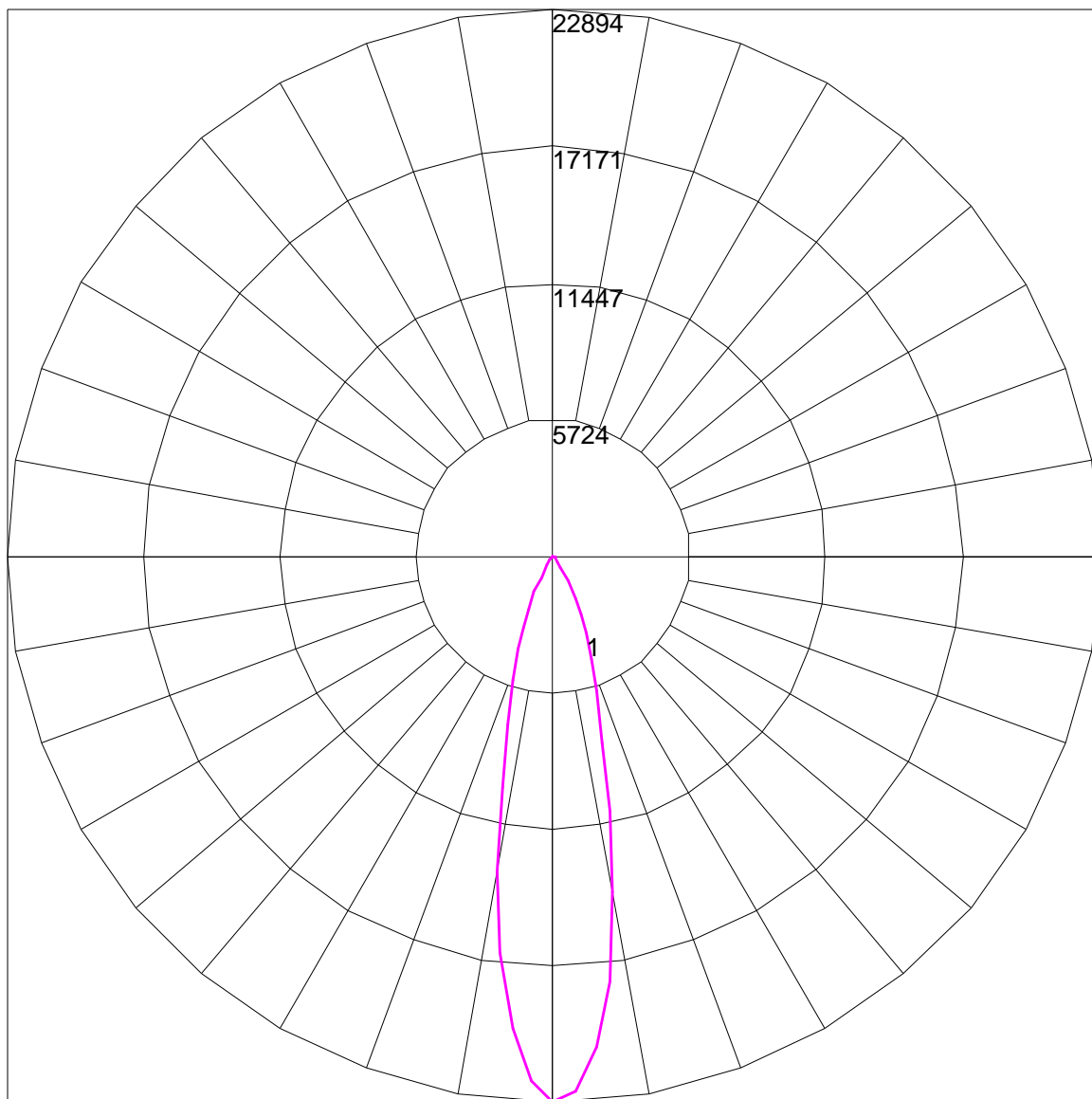
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	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	93	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	72	78	75	72	71

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POLAR GRAPH



Maximum Candela = 22894.386 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)