

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_9 ~ SGE6BX70L-35KMD-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_9_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-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	5325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	51
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 ~ SGE6BX70L-35KMD-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	856	865	838
55	224	175	288
65	278	133	87
75	97	105	181
85	591	725	650

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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	15209.839	15209.839	15209.839	15209.839	15209.839	15209.839	15209.839	15209.839	15209.839	15209.839
2.5	14814.532	14928.815	14690.282	14871.315	14676.544	14861.639	14581.252	14951.866	14756.879	15097.345
5.0	13879.996	13763.339	13742.715	13704.120	13602.419	13635.432	13709.253	13762.138	13964.997	14010.555
7.5	12687.572	12574.069	12526.765	12478.510	12421.020	12385.760	12443.423	12534.835	12657.523	12771.208
10.0	11360.313	11248.701	11245.461	11188.558	11183.539	11125.046	11172.186	11204.888	11316.249	11388.471
12.5	9982.121	9916.638	9909.631	9895.444	9896.801	9864.133	9875.909	9872.695	9919.662	9988.117
15.0	8579.228	8549.899	8561.902	8558.439	8586.164	8571.886	8577.364	8557.576	8545.595	8580.443
17.5	7189.261	7185.282	7186.049	7219.905	7242.094	7279.041	7268.959	7242.699	7205.910	7171.995
20.0	5805.297	5830.659	5804.452	5901.087	5882.502	5955.930	5965.651	5947.572	5914.925	5882.143
22.5	4516.593	4494.490	4547.281	4582.684	4583.188	4633.553	4682.230	4653.419	4695.336	4603.041
25.0	3268.785	3237.890	3312.564	3312.117	3309.756	3335.863	3409.794	3412.199	3475.229	3410.292
27.5	2124.303	2046.665	2144.896	2044.152	2143.060	2056.705	2177.818	2180.803	2254.413	2224.040
30.0	1021.457	1114.663	988.441	1165.883	1020.124	1165.415	1100.962	1254.577	1259.014	1302.843
32.5	479.802	346.622	508.172	301.679	477.808	315.703	542.754	362.263	560.238	397.615
35.0	150.029	178.857	125.912	168.660	154.729	177.438	107.690	200.913	144.043	208.837
37.5	48.978	45.528	57.262	39.487	52.792	48.033	62.918	47.911	75.362	52.782
40.0	28.680	29.017	30.161	26.642	30.374	33.018	27.685	31.816	32.976	35.094
42.5	17.872	15.396	19.317	14.258	18.442	18.829	20.100	16.592	21.695	21.765
45.0	10.190	10.892	10.287	10.869	9.966	13.965	13.211	12.255	13.753	14.535
47.5	6.286	7.111	6.985	7.539	7.380	9.318	8.243	8.059	9.507	7.412
50.0	3.539	5.457	4.254	5.158	6.636	6.678	4.323	5.398	6.788	4.993
52.5	2.595	4.043	2.918	2.960	4.856	4.238	3.061	2.932	5.694	2.611
55.0	2.163	3.282	1.693	3.023	2.780	3.461	2.129	2.203	4.548	2.161
57.5	1.795	2.551	1.936	3.015	1.911	2.658	1.998	1.567	3.351	1.733
60.0	1.445	1.890	2.280	2.252	1.366	1.668	1.875	1.684	2.336	2.293
62.5	1.643	1.426	1.637	1.638	0.974	0.831	1.775	1.681	1.496	2.802
65.0	1.976	1.426	0.943	2.322	0.619	0.991	1.597	0.850	1.150	1.910
67.5	1.542	1.331	0.802	2.937	0.736	1.093	1.255	0.237	1.245	1.077
70.0	0.972	1.064	0.652	3.246	0.924	0.933	0.968	0.710	1.087	0.878
72.5	0.566	0.817	0.420	2.822	0.770	0.766	0.754	1.005	0.764	0.690
75.0	0.422	0.598	0.457	1.474	0.789	0.586	0.990	0.962	0.794	0.537
77.5	0.696	0.911	0.778	2.353	1.047	1.109	1.274	0.883	0.778	0.591
80.0	1.225	0.897	1.140	2.246	0.813	1.549	0.674	0.825	0.513	0.680
82.5	1.209	0.543	1.084	1.452	0.990	1.159	0.746	0.843	0.823	0.493
85.0	0.867	0.761	1.064	1.002	0.954	0.430	1.023	0.440	1.203	0.611
87.5	0.691	0.463	0.776	0.859	0.774	1.126	0.473	0.804	0.707	0.894
90.0	0.000	0.000	0.000	0.000	0.000	0.490	0.807	0.828	0.649	0.826
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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[illegible]

	<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	15209.8391	15209.8391	15209.8391	15209.8391	15209.8391	15209.8391	15209.8391
2.5	14882.9621	15273.7231	15027.5521	15326.0821	14936.7191	15168.6611	14814.532
5.0	14216.2741	14142.1171	14362.4551	14203.8751	14275.0171	14021.0961	13879.996
7.5	12842.3151	12984.0201	12996.6941	13064.8211	12983.7261	12859.2751	12687.572
10.0	11452.7781	11545.3991	11591.1911	11605.1531	11594.4401	11477.2121	11360.313
12.5	10011.6001	10104.2991	10120.6281	10145.5291	10128.3701	10090.7259	9982.121
15.0	8580.144	8640.691	8659.829	8686.509	8651.336	8648.856	8579.228
17.5	7178.136	7192.654	7213.929	7237.136	7230.004	7215.803	7189.261
20.0	5821.646	5867.436	5856.175	5904.621	5815.449	5875.191	5805.297
22.5	4596.043	4559.940	4625.756	4586.908	4604.305	4546.203	4516.593
25.0	3383.856	3375.708	3418.648	3420.039	3415.459	3321.563	3268.785
27.5	2207.090	2222.566	2243.443	2273.550	2263.004	2130.286	2124.303
30.0	1188.675	1262.260	1272.911	1305.497	1113.806	1199.900	1021.457
32.5	568.868	417.054	567.848	425.804	588.404	365.356	479.802
35.0	119.679	214.033	144.609	221.791	109.219	192.467	150.029
37.5	66.735	42.254	67.936	42.192	53.311	41.723	48.978
40.0	27.416	28.429	22.842	27.750	22.433	27.385	28.680
42.5	17.843	16.098	14.576	14.687	14.704	14.520	17.872
45.0	10.145	10.650	9.439	9.952	8.007	9.820	10.190
47.5	6.298	5.941	7.764	5.711	5.295	5.523	6.286
50.0	3.655	4.355	5.822	4.167	2.705	3.243	3.539
52.5	3.343	3.087	3.601	2.850	2.366	1.401	2.595
55.0	2.860	3.061	2.434	2.652	2.065	1.571	2.163
57.5	2.062	2.828	2.318	2.468	1.817	1.601	1.795
60.0	1.454	1.849	1.952	2.344	1.566	1.051	1.445
62.5	1.176	1.157	1.350	2.135	0.985	0.758	1.643
65.0	1.001	1.417	1.081	1.573	0.442	1.451	1.976

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67.5	0.989	1.625	1.109	1.102	0.707	1.785	1.542
70.0	0.769	1.693	0.989	0.870	0.908	1.218	0.972
72.5	0.320	1.539	0.770	0.781	0.848	0.968	0.566
75.0	0.805	1.094	0.702	0.827	0.700	1.000	0.422
77.5	1.371	1.090	0.791	0.846	0.485	0.486	0.696
80.0	0.951	0.988	1.241	0.656	0.374	0.349	1.225
82.5	0.625	0.526	0.940	0.524	0.506	0.521	1.209
85.0	0.673	0.544	0.746	0.917	1.108	0.554	0.867
87.5	0.403	0.578	0.916	0.679	0.702	0.519	0.691
90.0	0.610	0.662	0.795	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 ~ SGE6BX70L-35KMD-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3607.21	N.A.	67.70
0-30	5122.6	N.A.	96.20
0-40	5309.39	N.A.	99.70
0-60	5321.85	N.A.	99.90
0-80	5324.18	N.A.	100.00
0-90	5324.99	N.A.	100.00
10-90	4077.01	N.A.	76.60
20-40	1702.18	N.A.	32.00
20-50	1712.09	N.A.	32.20
40-70	13.81	N.A.	0.30
60-80	2.33	N.A.	0.00
70-80	0.98	N.A.	0.00
80-90	0.81	N.A.	0.00
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	5325.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1247.99
10-20	2359.23
20-30	1515.39
30-40	186.79
40-50	9.91
50-60	2.55
60-70	1.35
70-80	0.98
80-90	0.81
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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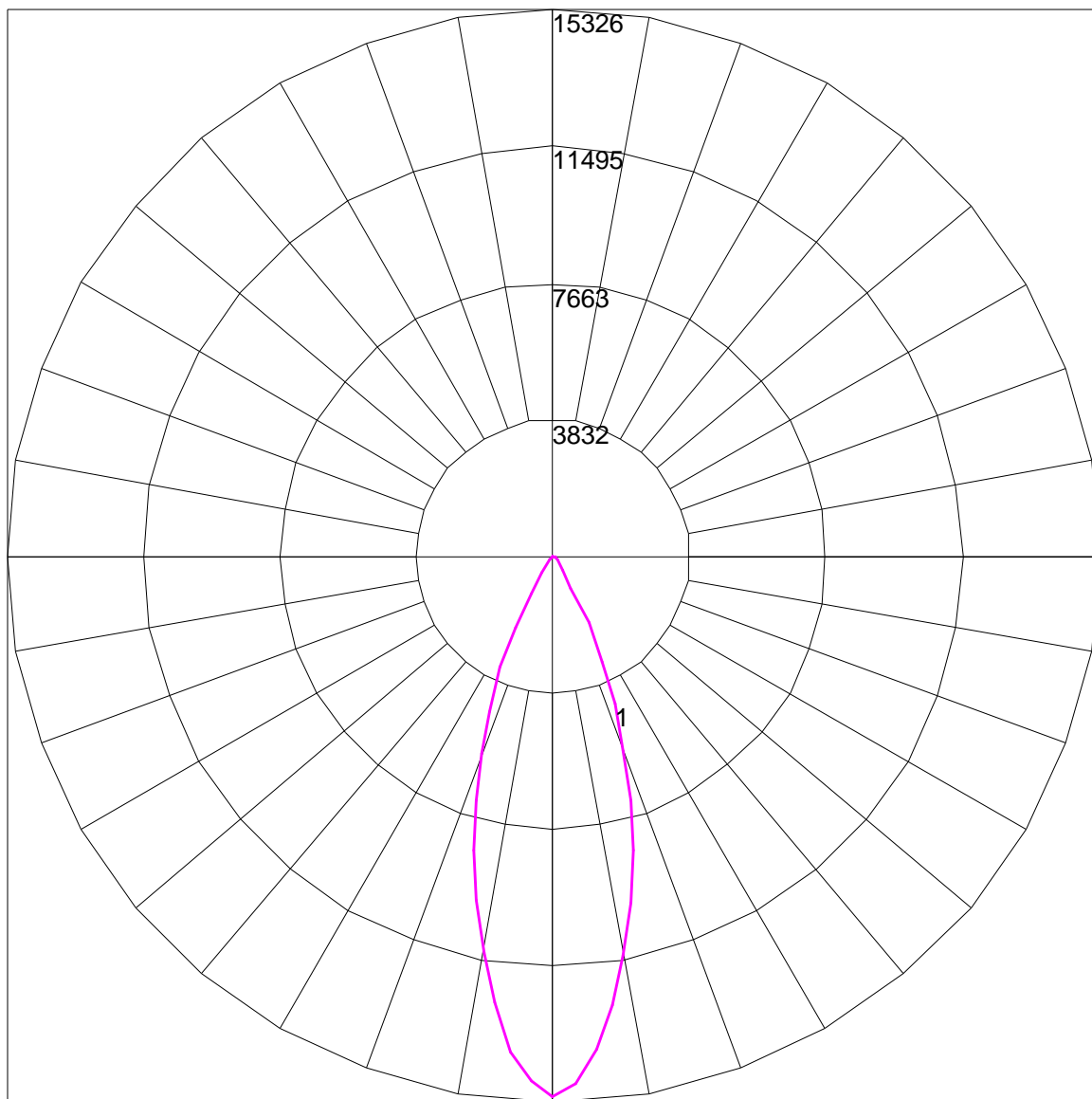
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 15326.082 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)