

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX80L-35KND-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00625_10
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/12/2018
[LUMCAT] SGE6BX-80L-35K-ND-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, Medium Beam
[OTHER] 23.8 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.42
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_10 ~ SGE6BX80L-35KND-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14099	14319	14810
55	15553	15398	15892
65	16868	16754	16667
75	11946	10911	11872
85	3098	3002	2680

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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	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900
2.5	23899.910	23307.740	23741.850	23368.029	23532.711	23422.160	23464.631	23235.730	23649.859	23293.109
5.0	21432.641	21855.301	21521.250	22137.420	21702.680	21715.949	21391.910	21491.330	21251.850	21747.311
7.5	18778.150	18481.170	18866.230	18553.061	18813.391	18458.971	18665.881	18299.631	18645.680	18362.260
10.0	14802.230	14698.770	14782.790	14807.210	14730.830	14928.500	14719.280	14885.760	14727.050	14885.190
12.5	10777.470	11265.060	11035.170	11201.490	11147.540	11025.290	11174.580	11148.610	11018.310	11167.330
15.0	8318.072	7889.954	8221.005	7604.713	8060.258	8014.470	8275.770	8162.123	8321.215	8024.519
17.5	5906.595	6123.526	5881.280	5986.599	5925.591	6059.110	6036.787	6122.388	5930.574	6153.247
20.0	4797.785	4553.730	4651.142	4400.798	4613.692	4613.252	4714.604	4610.202	4715.700	4629.253
22.5	3711.383	3725.330	3584.325	3655.073	3623.349	3698.703	3623.337	3684.341	3602.320	3771.081
25.0	2944.132	2956.164	2842.519	2901.050	2877.619	2821.037	2814.433	2789.721	2813.657	2918.636
27.5	2175.569	2098.142	2080.192	2034.051	2078.729	1976.816	2009.473	1925.291	2027.785	2075.626
30.0	1394.802	1236.166	1282.294	1207.999	1244.823	1283.632	1208.707	1215.679	1249.343	1335.227
32.5	683.687	776.696	686.876	737.192	728.755	709.415	669.796	636.113	631.445	740.878
35.0	430.919	330.688	394.217	321.159	393.173	387.619	372.841	328.680	374.253	358.224
37.5	215.444	254.010	216.917	246.450	248.928	240.680	221.682	222.501	199.458	240.630
40.0	191.048	181.644	191.205	183.775	199.268	182.796	189.267	177.229	185.055	177.589
42.5	170.870	178.518	175.234	180.002	181.124	178.186	174.408	170.931	174.316	173.891
45.0	167.752	174.820	170.377	175.032	176.221	173.518	171.947	167.278	169.704	169.379
47.5	164.633	165.579	164.512	165.416	168.828	168.819	167.155	165.083	163.930	164.098
50.0	161.510	157.064	157.648	157.150	160.555	163.152	160.942	160.702	156.454	160.170
52.5	157.309	153.467	152.417	153.169	156.360	157.055	155.432	155.275	150.624	157.369
55.0	150.110	149.404	148.615	148.946	153.380	152.932	150.296	149.723	146.885	152.879
57.5	143.564	142.893	144.545	144.074	145.923	149.551	143.251	144.121	142.273	147.168
60.0	138.548	135.800	140.270	137.882	137.385	141.194	135.337	138.730	136.699	138.428
62.5	131.386	126.301	131.263	128.697	128.031	131.251	127.177	133.413	129.360	127.794
65.0	119.955	115.356	119.144	116.867	118.523	119.978	118.921	118.676	120.305	117.746
67.5	105.779	100.217	102.732	100.533	103.329	108.360	102.544	101.247	107.449	108.018
70.0	87.813	83.520	84.349	82.573	87.207	88.339	83.826	85.520	91.693	92.154
72.5	69.696	64.840	65.296	63.332	68.644	68.444	67.770	69.848	74.050	74.058
75.0	52.027	47.792	47.520	48.943	51.703	55.671	51.419	52.597	56.026	57.586
77.5	39.468	33.783	32.249	34.111	36.086	40.223	34.125	38.198	39.857	42.513
80.0	24.085	23.914	19.101	20.158	20.724	24.291	22.134	26.177	23.722	29.468
82.5	11.372	11.168	10.625	10.938	9.189	13.760	11.826	14.272	11.864	14.275
85.0	4.543	3.109	4.403	3.724	3.931	4.790	6.024	6.146	6.396	5.226
87.5	2.187	1.063	1.339	1.147	1.659	2.657	1.377	1.647	2.416	2.333
90.0	0.000	0.000	0.000	0.000	0.000	1.104	0.936	1.173	1.227	0.933
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	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900	24092.900
2.5	23730.010	23329.189	23522.020	23315.230	23650.820	23349.301	23899.910
5.0	21369.471	21958.850	21474.141	21625.820	21449.949	21719.301	21432.641
7.5	18597.100	18414.211	18403.330	18468.980	18493.480	18540.400	18778.150
10.0	14741.290	14849.350	14795.000	14615.340	14796.470	14678.380	14802.230
12.5	10720.790	11182.530	10872.310	11243.920	10856.020	11303.040	10777.470
15.0	8214.904	7901.437	8144.992	8066.630	8250.025	8108.753	8318.072
17.5	5871.763	6159.588	6017.367	6158.872	6011.716	6212.900	5906.595
20.0	4754.523	4629.142	4714.242	4687.148	4800.660	4726.509	4797.785
22.5	3718.445	3799.435	3763.038	3783.180	3816.754	3831.190	3711.383
25.0	2911.146	2959.951	2902.259	3040.023	3006.517	3088.110	2944.132
27.5	2111.308	2093.582	2074.548	2193.308	2226.855	2237.051	2175.569
30.0	1361.376	1325.201	1356.602	1322.405	1462.763	1363.334	1394.802
32.5	632.170	783.693	671.970	803.957	700.689	839.426	683.687
35.0	413.163	381.991	394.875	349.869	434.750	371.755	430.919
37.5	208.478	260.312	218.329	244.403	211.857	258.876	215.444
40.0	192.526	181.577	185.753	186.240	190.827	186.988	191.048
42.5	177.724	176.615	181.940	176.171	180.076	177.181	170.870
45.0	172.669	171.463	173.358	170.749	174.563	172.204	167.752
47.5	167.607	166.031	164.053	166.531	169.132	168.349	164.633
50.0	162.498	160.911	159.709	162.380	164.154	164.537	161.510
52.5	157.329	156.196	155.896	158.286	159.300	159.020	157.309
55.0	151.875	153.082	148.553	154.152	156.671	153.517	150.110
57.5	146.310	151.778	140.963	146.912	153.483	148.566	143.564
60.0	140.321	146.445	137.298	139.606	144.479	143.316	138.548
62.5	133.217	137.150	133.748	130.990	135.053	133.702	131.386
65.0	122.546	123.896	121.636	121.664	122.622	122.986	119.955

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX80L-35KND-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	109.983	107.207	109.140	106.236	108.772	104.402	105.779
70.0	93.020	90.075	91.267	90.357	89.684	86.409	87.813
72.5	75.571	72.671	73.608	73.287	71.338	69.797	69.696
75.0	57.614	56.153	56.542	56.015	53.847	54.712	52.027
77.5	42.894	41.466	40.815	39.421	40.107	40.237	39.468
80.0	28.209	31.329	26.328	26.540	27.306	25.170	24.085
82.5	14.239	16.625	13.676	13.896	15.194	11.867	11.372
85.0	7.240	6.827	5.260	7.574	6.130	4.814	4.543
87.5	3.211	3.297	1.453	2.053	2.097	1.676	2.187
90.0	0.988	0.812	0.735	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_10 ~ SGE6BX80L-35KND-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4170.16	N.A.	66.80
0-30	5478.62	N.A.	87.80
0-40	5790.5	N.A.	92.80
0-60	6058.65	N.A.	97.10
0-80	6232.6	N.A.	99.90
0-90	6241.53	N.A.	100.00
10-90	4400.56	N.A.	70.50
20-40	1620.34	N.A.	26.00
20-50	1753.37	N.A.	28.10
40-70	384.53	N.A.	6.20
60-80	173.95	N.A.	2.80
70-80	57.56	N.A.	0.90
80-90	8.93	N.A.	0.10
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	6241.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1840.97
10-20	2329.19
20-30	1308.46
30-40	311.88
40-50	133.03
50-60	135.12
60-70	116.39
70-80	57.56
80-90	8.93
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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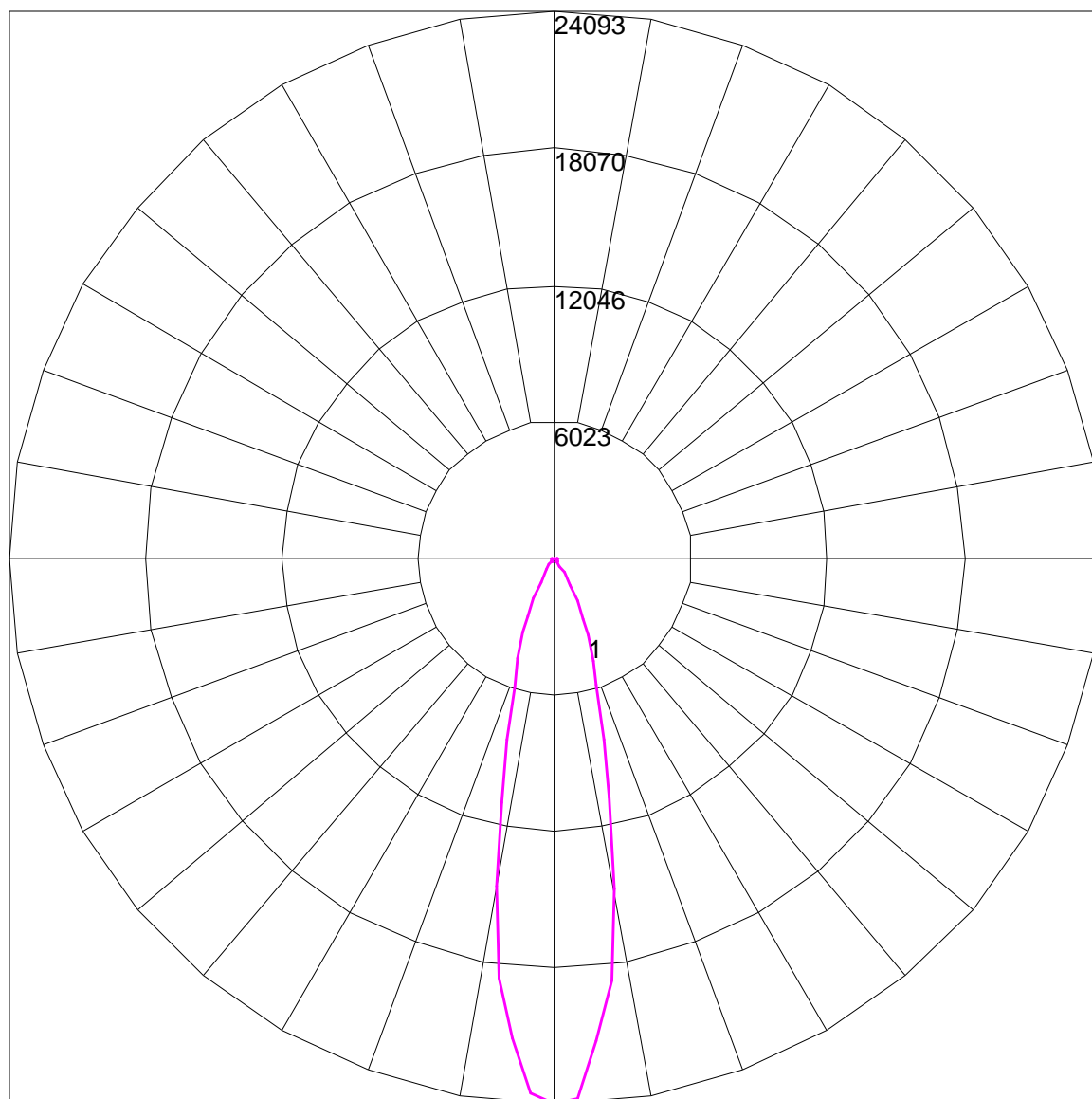
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70
9	85	78	73	70	84	77	73	70	77	72	70	76	72	69	75	72	69	68
10	83	75	71	68	82	75	70	68	74	70	67	73	70	67	73	69	67	66

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX80L-35KND-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 24092.9 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)