

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00621\_11  
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 6/7/2018  
[UPDATE] 7/13/2018  
[LUMCAT] SGE8BX-80L35K-MD-DO101-AR8BX-MWWF  
[LUMINAIRE] Nom. 8" 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] 40.7 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1545	1505	1345
55	1283	1130	1260
65	989	848	906
75	591	690	644
85	519	410	523

## PHOTOMETRIC FILENAME : SP-00621 11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES

[illegible]

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES

## 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	13000.920	13000.920	13000.920	13000.920	13000.920	13000.920	13000.920
2.5	12782.040	12769.070	12807.950	12909.080	12892.280	12908.430	12907.060
5.0	12458.620	12401.690	12514.980	12751.310	12679.590	12711.670	12723.300
7.5	11799.100	11713.280	11846.980	12208.690	12101.420	12191.570	12179.300
10.0	10999.360	10898.190	11065.940	11579.950	11436.780	11541.080	11564.290
12.5	9931.450	9806.254	10000.090	10610.340	10423.860	10587.830	10568.270
15.0	8745.703	8648.292	8841.310	9558.818	9355.200	9503.719	9530.034
17.5	7497.784	7338.455	7570.834	8293.792	8040.156	8261.982	8245.293
20.0	6221.119	6088.566	6261.740	6972.648	6747.430	6948.535	6967.212
22.5	5098.615	4983.959	5161.551	5796.298	5560.932	5731.553	5733.008
25.0	4052.235	3953.400	4139.146	4660.559	4422.824	4560.722	4536.676
27.5	3181.445	3115.433	3264.114	3742.888	3533.743	3607.491	3615.776
30.0	2401.706	2291.656	2447.027	2891.624	2668.426	2765.356	2708.501
32.5	1619.085	1506.877	1628.808	2112.951	1939.574	1976.732	1911.498
35.0	834.874	810.003	810.110	1357.751	1227.838	1216.781	1136.946
37.5	387.244	373.482	378.834	758.834	623.562	656.051	574.828
40.0	134.566	41.153	119.611	213.481	89.917	208.988	59.112
42.5	35.116	36.062	35.264	54.060	59.828	38.759	45.016
45.0	30.045	31.794	32.620	37.120	32.951	34.059	31.662
47.5	26.970	30.274	29.780	31.405	31.512	30.994	28.114
50.0	25.183	28.331	26.841	30.066	29.895	28.966	24.679
52.5	23.817	24.858	24.237	27.262	26.681	27.401	23.045
55.0	22.736	21.617	21.808	23.846	23.653	26.144	21.339
57.5	20.615	19.278	19.326	20.860	22.570	23.439	18.094
60.0	17.750	16.898	16.816	18.064	21.258	19.728	14.912
62.5	15.074	14.343	14.129	15.457	17.160	17.211	13.505
65.0	12.542	11.890	11.339	12.941	13.140	15.576	12.115

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	9.683	9.884	8.982	10.434	10.151	12.641	11.234
70.0	6.585	7.790	6.869	7.931	7.470	8.784	10.074
72.5	5.225	5.457	4.899	5.109	6.384	6.763	6.951
75.0	4.509	3.626	3.101	2.542	5.040	5.472	4.434
77.5	2.578	2.235	2.552	2.175	3.369	4.163	2.787
80.0	1.593	1.382	1.981	2.061	2.016	2.598	2.002
82.5	1.532	1.278	1.348	2.057	1.645	1.419	1.508
85.0	1.736	1.031	0.931	1.802	1.947	1.302	1.311
87.5	0.992	1.094	0.949	1.204	1.130	0.944	0.525
90.0	0.290	0.888	0.845	0.451	0.705	0.467	0.599
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-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3670.04	N.A.	56.80
0-30	5698.85	N.A.	88.10
0-40	6397.77	N.A.	98.90
0-60	6448.41	N.A.	99.70
0-80	6464.37	N.A.	100.00
0-90	6465.69	N.A.	100.00
10-90	5306.7	N.A.	82.10
20-40	2727.73	N.A.	42.20
20-50	2759.48	N.A.	42.70
40-70	62.14	N.A.	1.00
60-80	15.97	N.A.	0.20
70-80	4.46	N.A.	0.10
80-90	1.32	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	6465.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1158.99
10-20	2511.05
20-30	2028.8
30-40	698.92
40-50	31.76
50-60	18.88
60-70	11.50
70-80	4.46
80-90	1.32
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES

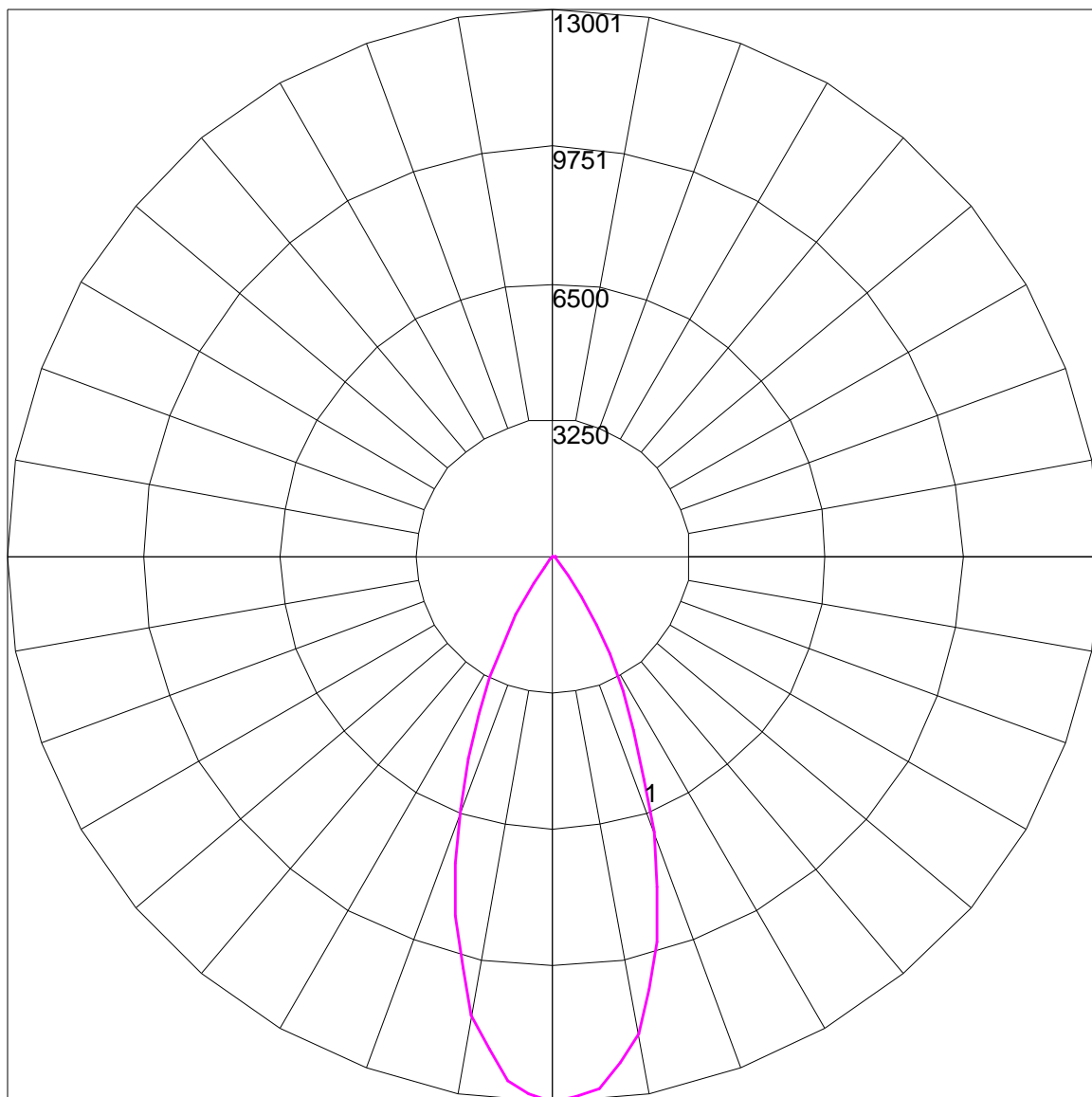
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	77	74	72	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	69	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64
10	80	71	66	63	79	71	66	63	70	66	63	69	66	63	69	65	63	61

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00621\_11 ~ SGE8BX80L-35KMD-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 13000.92 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)