

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_14 ~ SGE8BX60L-35KND-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621\_14\_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGRTV8BX-60L35K-ND-DO101-AR8BX-SGWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Semi-diffuse aluminum reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Narrow Beam

[OTHER] 24.5 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	4901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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\_14 ~ SGE8BX60L-35KND-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	98	75	46
55	31	56	52
65	56	43	96
75	92	122	78
85	152	306	316

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[illegible]

# IES INDOOR REPORT

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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	17010.229	17010.229	17010.229	17010.229	17010.229	17010.229	17010.229
2.5	16461.037	16446.210	16441.947	16511.372	16695.960	16610.294	16815.935
5.0	15407.480	15605.255	15545.010	15504.911	15472.862	15596.264	15491.316
7.5	13185.924	13204.339	13181.842	13322.079	13618.272	13499.470	13832.090
10.0	10607.647	10737.477	10690.228	10857.375	10944.843	10983.489	10943.620
12.5	8086.476	8061.449	8090.785	8084.652	8128.975	8134.417	8238.483
15.0	5822.083	5958.006	5940.655	6121.507	6243.004	6197.309	6206.765
17.5	4586.009	4536.990	4576.491	4514.629	4623.110	4526.814	4657.108
20.0	3647.121	3672.437	3687.450	3750.535	3778.602	3796.980	3745.323
22.5	3125.856	3078.487	3137.585	3110.460	3152.796	3136.455	3141.245
25.0	2698.875	2698.727	2729.739	2755.394	2774.717	2718.071	2702.726
27.5	2326.718	2344.563	2358.199	2396.402	2390.285	2325.907	2297.699
30.0	1971.578	1981.613	1992.965	2029.934	2002.981	1968.976	1888.003
32.5	1606.271	1565.578	1578.233	1582.312	1557.245	1491.908	1368.742
35.0	1052.570	1038.040	1000.738	1071.106	1096.632	947.284	866.640
37.5	564.961	589.467	529.579	603.820	574.501	515.884	405.209
40.0	245.598	208.404	188.518	149.119	186.071	127.824	130.187
42.5	63.888	70.044	50.070	69.300	62.845	54.696	29.692
45.0	20.600	10.156	13.083	7.655	6.921	2.953	2.009
47.5	6.598	7.240	6.756	5.493	4.978	2.823	1.275
50.0	4.258	5.870	4.552	4.178	3.501	2.342	0.980
52.5	3.382	4.153	2.857	4.003	2.167	1.518	0.718
55.0	2.596	2.878	1.829	3.586	1.668	1.123	0.512
57.5	1.705	2.255	2.244	3.035	1.227	0.888	0.535
60.0	1.180	2.170	2.070	1.954	0.974	0.728	0.926
62.5	1.291	2.411	1.382	0.876	0.855	0.629	0.933
65.0	1.039	1.613	0.891	0.846	0.922	0.829	0.682

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67.5	0.525	0.671	0.465	0.752	0.689	0.866	0.701
70.0	0.394	0.690	0.382	0.505	0.286	0.627	0.774
72.5	0.378	0.649	0.363	0.643	0.321	0.814	0.748
75.0	0.658	0.469	0.516	1.078	0.417	1.236	0.690
77.5	0.739	0.505	0.538	0.853	0.518	1.433	0.587
80.0	0.594	0.554	0.521	0.986	0.682	0.792	0.490
82.5	0.452	0.299	0.634	0.808	1.000	0.239	0.393
85.0	0.512	0.546	0.134	0.299	0.990	0.408	0.384
87.5	0.509	0.608	0.402	0.410	0.361	0.844	0.407
90.0	0.244	0.727	0.400	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

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Zone	Lumens	%Lamp	%Fixt
0-20	3060.8	N.A.	62.50
0-30	4298.35	N.A.	87.70
0-40	4875.52	N.A.	99.50
0-60	4898.37	N.A.	100.00
0-80	4899.89	N.A.	100.00
0-90	4900.51	N.A.	100.00
10-90	3573.66	N.A.	72.90
20-40	1814.72	N.A.	37.00
20-50	1836.15	N.A.	37.50
40-70	23.68	N.A.	0.50
60-80	1.52	N.A.	0.00
70-80	0.69	N.A.	0.00
80-90	0.62	N.A.	0.00
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4900.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1326.85
10-20	1733.95
20-30	1237.55
30-40	577.17
40-50	21.43
50-60	1.41
60-70	0.83
70-80	0.69
80-90	0.62
90-100	0.04
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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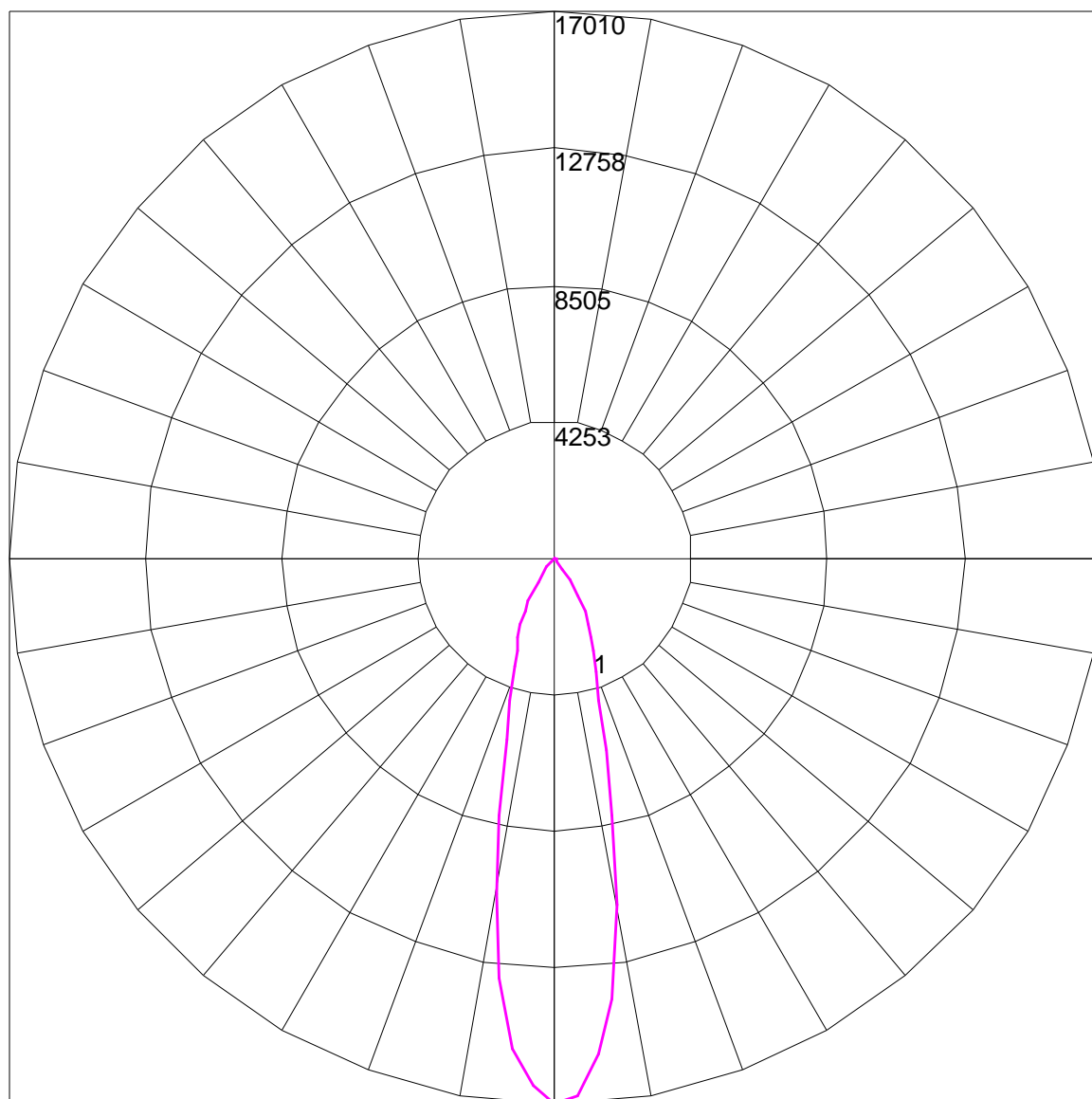
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 17010.229 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)