

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00621\_14 ~ SGE8BX70L-35KND-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621\_14\_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGRTV8BX-70L35K-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	5571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	51
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 ~ SGE8BX70L-35KND-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	111	86	52
55	35	64	60
65	63	49	109
75	105	139	89
85	173	348	359

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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	19337.946	19337.946	19337.946	19337.946	19337.946	19337.946	19337.946
2.5	18713.601	18696.744	18691.898	18770.824	18980.671	18883.282	19117.063
5.0	17515.872	17740.711	17672.223	17626.636	17590.202	17730.490	17611.181
7.5	14990.314	15011.250	14985.673	15145.100	15481.825	15346.767	15724.903
10.0	12059.220	12206.817	12153.102	12343.122	12442.559	12486.494	12441.168
12.5	9193.047	9164.595	9197.946	9190.973	9241.362	9247.548	9365.855
15.0	6618.789	6773.313	6753.588	6959.187	7097.310	7045.362	7056.112
17.5	5213.569	5157.842	5202.748	5132.420	5255.747	5146.273	5294.397
20.0	4146.200	4174.981	4192.049	4263.767	4295.674	4316.567	4257.841
22.5	3553.604	3499.754	3566.939	3536.102	3584.232	3565.655	3571.100
25.0	3068.195	3068.026	3103.282	3132.448	3154.415	3090.017	3072.572
27.5	2645.111	2665.399	2680.900	2724.331	2717.377	2644.189	2612.121
30.0	2241.373	2252.781	2265.686	2307.715	2277.074	2238.415	2146.362
32.5	1826.076	1779.815	1794.202	1798.839	1770.341	1696.064	1556.043
35.0	1196.605	1180.088	1137.681	1217.678	1246.698	1076.912	985.233
37.5	642.272	670.131	602.048	686.448	653.117	586.479	460.659
40.0	279.206	236.923	214.315	169.525	211.533	145.315	148.002
42.5	72.630	79.629	56.922	78.783	71.445	62.180	33.756
45.0	23.419	11.546	14.873	8.702	7.868	3.357	2.284
47.5	7.500	8.230	7.680	6.244	5.659	3.210	1.450
50.0	4.840	6.674	5.174	4.750	3.980	2.663	1.114
52.5	3.845	4.721	3.248	4.551	2.463	1.725	0.816
55.0	2.951	3.272	2.079	4.076	1.896	1.276	0.582
57.5	1.938	2.563	2.551	3.450	1.395	1.009	0.608
60.0	1.341	2.467	2.354	2.221	1.107	0.828	1.053
62.5	1.468	2.741	1.572	0.995	0.972	0.715	1.060
65.0	1.181	1.834	1.013	0.962	1.048	0.943	0.775

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67.5	0.597	0.763	0.529	0.854	0.784	0.984	0.797
70.0	0.448	0.785	0.435	0.574	0.325	0.713	0.880
72.5	0.430	0.738	0.412	0.731	0.365	0.925	0.850
75.0	0.748	0.533	0.587	1.226	0.474	1.405	0.785
77.5	0.840	0.575	0.612	0.969	0.589	1.629	0.667
80.0	0.675	0.630	0.593	1.121	0.776	0.900	0.557
82.5	0.514	0.340	0.721	0.918	1.137	0.272	0.447
85.0	0.582	0.621	0.152	0.340	1.125	0.464	0.436
87.5	0.579	0.691	0.457	0.467	0.410	0.959	0.462
90.0	0.277	0.827	0.454	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	3479.65	N.A.	62.50
0-30	4886.55	N.A.	87.70
0-40	5542.7	N.A.	99.50
0-60	5568.67	N.A.	100.00
0-80	5570.4	N.A.	100.00
0-90	5571.11	N.A.	100.00
10-90	4062.69	N.A.	72.90
20-40	2063.05	N.A.	37.00
20-50	2087.42	N.A.	37.50
40-70	26.92	N.A.	0.50
60-80	1.73	N.A.	0.00
70-80	0.78	N.A.	0.00
80-90	0.71	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	5571.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1508.42
10-20	1971.23
20-30	1406.9
30-40	656.15
40-50	24.37
50-60	1.60
60-70	0.95
70-80	0.78
80-90	0.71
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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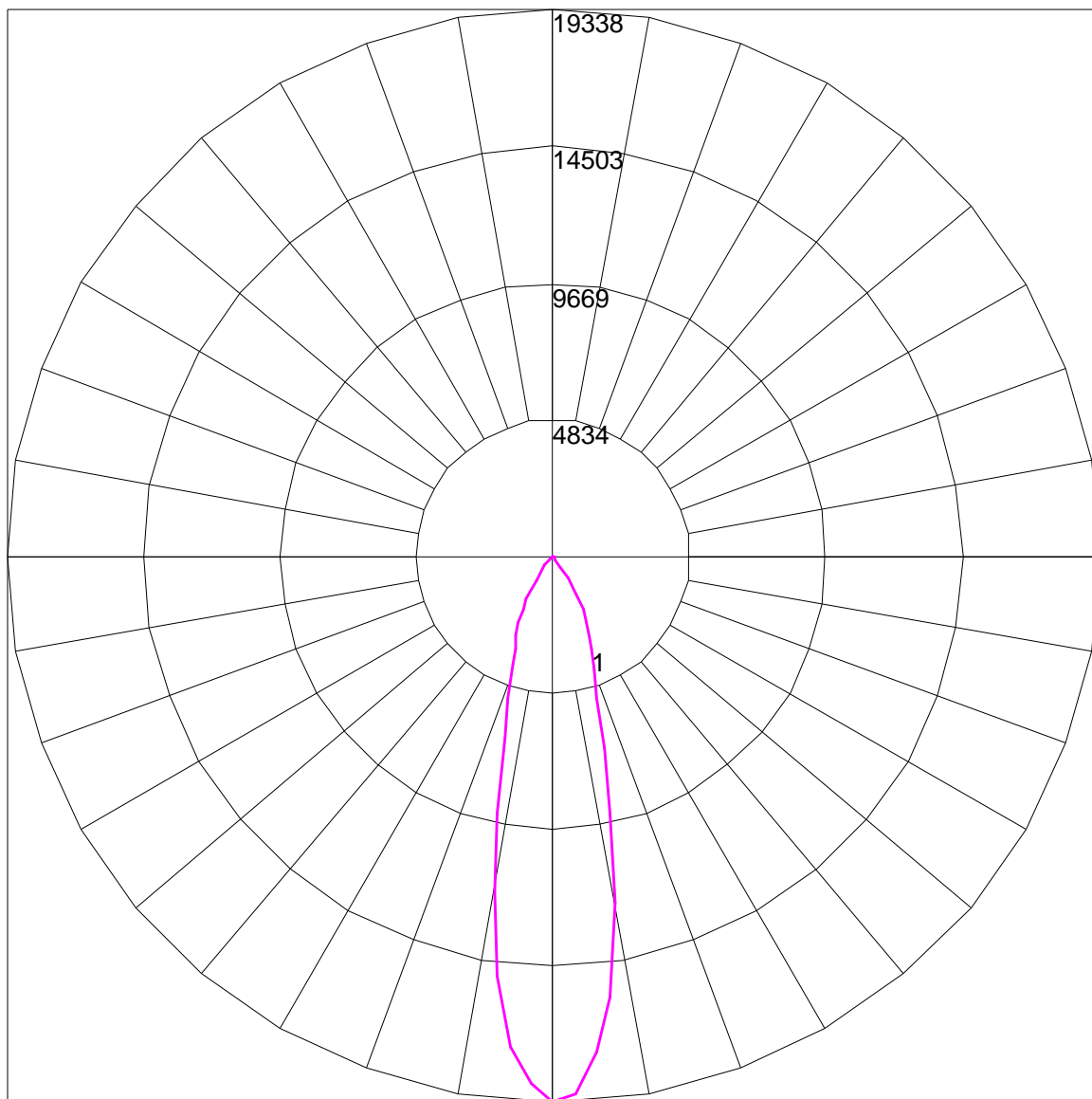
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	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	101	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	76	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 = 19337.946 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)