

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_12 ~ SP8ES-11L35K-DX-AR8WES-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00677\_12\_M-11L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 7/27/2018

[UPDATE] 10/10/2018

[LUMCAT] SP8ES-11L35K-DX-AR8WES-MW

[LUMINAIRE] Nom. 8.0" Aperture, LED Wall Wash

[OTHER] Matte white trim, open aperture

[OTHER] Peened 'kicker' reflector

[OTHER] Any flange finish

[LAMP] N/A

[LAMPCAT] N/A, 3500K CCT

[OTHER] Fully regressed lensed, light emitting surface

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985

[OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.67 ft (Diameter)
Luminous Width (90-270)	0.67 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_12 ~ SP8ES-11L35K-DX-AR8WES-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17051	8891	3925
55	18174	5970	3165
65	13561	3807	2892
75	7451	2530	2411
85	2048	1038	1021

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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	661.761	661.761	661.761	661.761	661.761	661.761	661.761	661.761	661.761	661.761
2.5	661.267	659.906	659.993	659.239	659.756	658.138	659.470	656.779	654.935	655.733
5.0	658.862	657.634	656.083	655.123	655.758	653.070	651.167	645.164	637.740	647.082
7.5	656.350	654.010	650.603	645.115	646.029	644.439	633.278	619.794	606.839	617.822
10.0	653.778	648.924	644.932	633.675	635.990	633.601	607.220	580.677	561.527	582.172
12.5	647.166	641.492	632.738	617.908	618.885	614.713	569.334	529.290	502.462	527.532
15.0	638.710	631.432	620.146	599.983	601.033	591.775	523.430	467.925	435.605	468.572
17.5	629.194	617.860	601.088	576.934	573.601	559.065	467.975	400.874	362.523	399.292
20.0	619.302	606.697	582.079	553.641	546.361	522.492	411.130	330.079	292.659	328.367
22.5	615.237	598.154	565.890	529.887	520.530	483.938	352.938	265.624	224.875	263.636
25.0	612.794	590.964	549.450	505.269	493.925	444.773	298.084	204.628	174.164	199.515
27.5	607.258	584.971	530.464	479.332	463.490	404.562	245.898	160.057	132.300	158.418
30.0	601.105	563.210	507.351	439.828	426.704	364.109	199.724	122.576	111.491	118.506
32.5	568.509	529.790	458.341	383.286	367.304	313.605	157.500	105.727	99.579	106.477
35.0	532.477	488.703	407.735	319.562	305.687	261.513	126.947	95.759	93.216	94.838
37.5	490.774	443.040	350.105	248.396	237.873	210.497	102.550	90.202	88.661	89.599
40.0	448.639	405.281	294.891	185.900	175.922	159.590	90.415	85.788	84.571	84.514
42.5	421.513	371.282	247.465	130.716	126.730	123.807	83.473	81.179	80.596	80.678
45.0	395.292	358.300	206.116	98.474	90.999	88.943	77.833	76.535	75.933	76.785
47.5	389.844	353.414	180.326	82.391	78.561	79.855	72.625	71.779	71.149	72.575
50.0	383.313	339.095	155.655	72.630	69.122	70.979	68.037	67.011	67.090	68.271
52.5	363.643	322.009	133.231	66.455	63.985	65.770	63.601	62.493	63.112	63.594
55.0	341.765	288.955	112.259	60.539	59.518	60.645	58.970	57.989	58.226	59.011
57.5	304.790	252.420	93.619	54.740	55.831	56.223	54.304	53.411	53.292	54.698
60.0	267.281	214.919	77.348	49.731	51.110	51.747	50.035	48.832	48.287	49.953
62.5	227.266	177.272	64.245	45.009	45.407	46.984	45.812	44.300	43.293	44.199
65.0	187.893	142.788	52.742	39.819	40.070	42.062	40.501	39.718	38.518	38.942
67.5	150.613	108.836	42.931	34.505	35.016	36.555	35.157	34.718	33.696	34.566
70.0	117.079	82.474	35.137	29.160	30.391	31.358	30.215	29.724	28.618	30.128
72.5	89.217	58.434	28.529	24.000	25.941	26.673	25.478	24.750	23.764	25.630
75.0	63.225	39.716	21.469	19.629	20.461	21.615	21.161	19.756	19.233	21.165
77.5	39.955	26.393	15.333	14.858	15.314	16.599	16.119	14.918	14.403	16.534
80.0	22.690	16.237	10.537	10.143	10.633	12.181	11.284	10.979	10.325	11.598
82.5	13.402	8.914	6.552	6.125	6.570	7.704	7.010	7.021	7.181	7.194
85.0	5.851	4.144	2.965	2.988	2.916	4.102	3.395	4.199	4.135	4.083
87.5	1.437	1.241	1.129	1.036	1.227	1.582	1.557	1.460	1.702	1.668
90.0	0.260	0.513	0.267	0.397	0.546	0.285	0.350	0.300	0.493	0.230

**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	661.761	661.761	661.761	661.761	661.761	661.761	661.761
2.5	657.976	659.623	660.856	658.676	661.167	661.039	661.267
5.0	650.598	656.467	657.758	653.737	658.137	658.737	658.862
7.5	632.385	647.462	649.943	645.250	655.245	655.327	656.350
10.0	608.638	637.797	640.817	633.345	652.403	649.867	653.778
12.5	568.780	617.613	625.464	618.403	643.410	643.271	647.166
15.0	524.178	596.874	608.153	599.466	632.746	632.704	638.710
17.5	468.681	564.136	583.964	577.605	612.317	620.363	629.194
20.0	411.770	531.002	558.859	554.259	589.994	609.767	619.302
22.5	352.246	490.171	531.312	530.036	572.219	599.778	615.237

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<b>25.0</b>	295.310	449.407	504.024	507.540	555.055	594.805	612.794
<b>27.5</b>	242.215	409.273	477.294	485.871	537.167	591.163	607.258
<b>30.0</b>	194.737	367.594	440.854	443.555	519.227	565.848	601.105
<b>32.5</b>	154.215	316.503	387.784	393.378	471.420	536.344	568.509
<b>35.0</b>	123.295	265.286	328.742	328.803	422.848	491.964	532.477
<b>37.5</b>	102.046	213.539	261.453	260.063	364.227	445.734	490.774
<b>40.0</b>	89.278	165.069	199.115	197.611	306.645	405.561	448.639
<b>42.5</b>	83.459	126.762	142.492	136.541	260.980	365.795	421.513
<b>45.0</b>	78.625	95.525	104.333	106.570	217.637	353.780	395.292
<b>47.5</b>	74.464	81.765	83.521	81.196	189.616	342.148	389.844
<b>50.0</b>	69.314	71.205	72.052	73.130	162.282	329.436	383.313
<b>52.5</b>	63.621	66.873	67.719	66.516	138.173	314.975	363.643
<b>55.0</b>	58.912	62.273	62.648	60.882	115.336	281.480	341.765
<b>57.5</b>	54.632	57.251	57.108	55.292	96.828	247.814	304.790
<b>60.0</b>	50.159	52.223	52.175	50.249	79.590	213.014	267.281
<b>62.5</b>	45.619	47.183	47.551	45.209	65.643	178.597	227.266
<b>65.0</b>	40.363	42.270	42.769	40.225	53.023	145.880	187.893
<b>67.5</b>	34.923	37.485	37.923	35.274	43.068	114.387	150.613
<b>70.0</b>	30.326	32.521	32.957	30.478	34.665	86.090	117.079
<b>72.5</b>	25.706	27.455	27.904	25.652	27.894	61.848	89.217
<b>75.0</b>	20.676	22.412	22.430	20.787	22.310	41.255	63.225
<b>77.5</b>	16.090	17.343	17.507	16.006	17.004	27.067	39.955
<b>80.0</b>	11.957	12.510	13.127	11.364	11.743	16.740	22.690
<b>82.5</b>	8.146	9.639	9.254	7.037	7.301	9.613	13.402
<b>85.0</b>	3.681	5.275	5.273	3.688	3.343	4.150	5.851
<b>87.5</b>	1.761	2.075	2.144	1.363	1.317	1.259	1.437
<b>90.0</b>	0.716	0.297	0.648	0.520	0.229	0.316	0.260

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Zone	Lumens	%Lamp	%Fixt
0-20	221.03	N.A.	23.90
0-30	421.84	N.A.	45.50
0-40	603.55	N.A.	65.10
0-60	828.93	N.A.	89.50
0-80	921.09	N.A.	99.40
0-90	926.56	N.A.	100.00
10-90	865.12	N.A.	93.40
20-40	382.52	N.A.	41.30
20-50	507.93	N.A.	54.80
40-70	289.30	N.A.	31.20
60-80	92.16	N.A.	9.90
70-80	28.23	N.A.	3.00
80-90	5.47	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	926.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	61.44
10-20	159.59
20-30	200.81
30-40	181.71
40-50	125.41
50-60	99.97
60-70	63.92
70-80	28.23
80-90	5.47
90-100	0.00
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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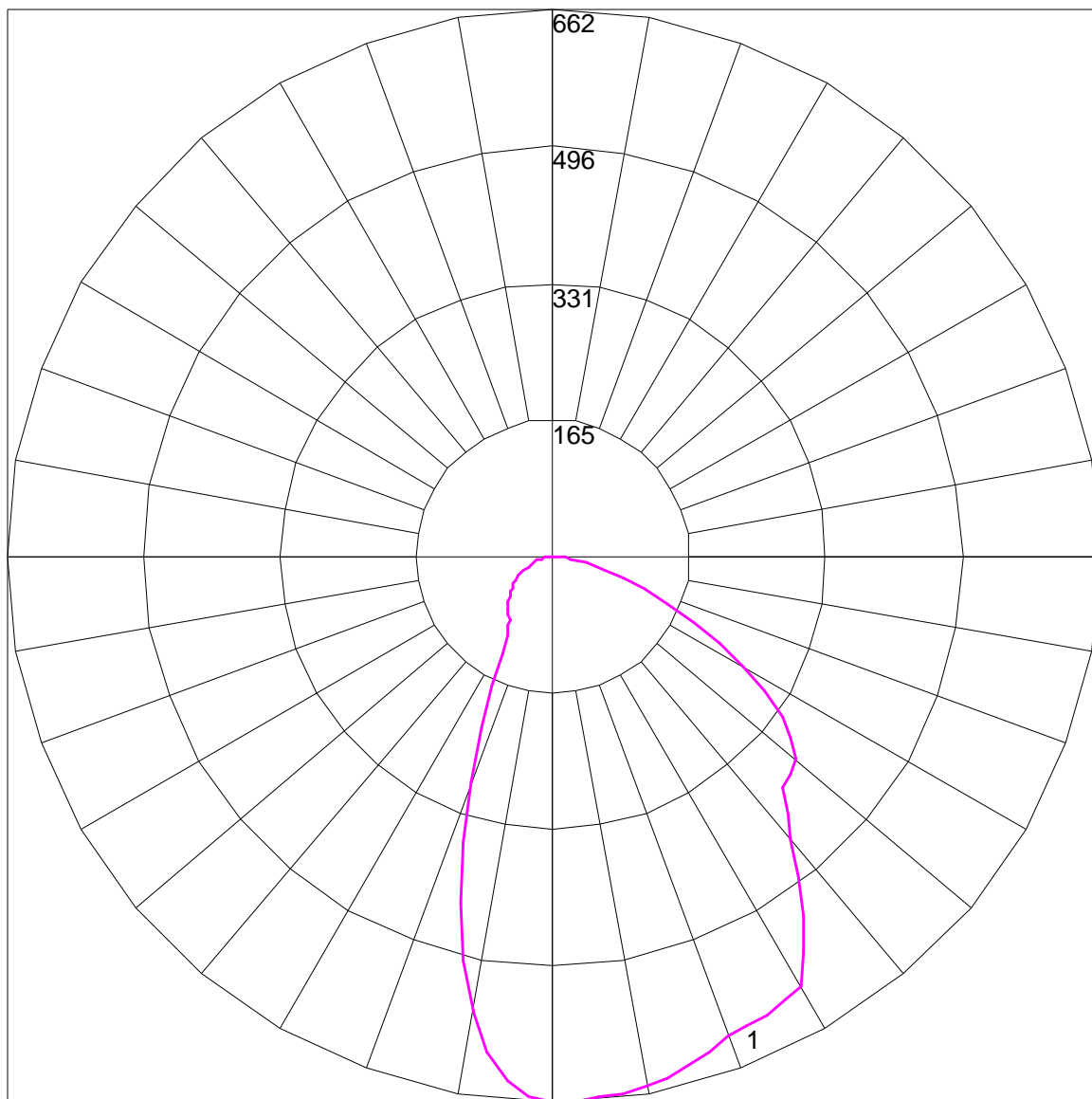
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

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POLAR GRAPH



Maximum Candela = 661.761 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)