

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00677\_13 ~ SP8ES-15L35K-DX-AR8WES-SG.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00677\_13\_M-15L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 7/27/2018  
 [UPDATE] 10/10/2018  
 [LUMCAT] SP8ES-15L35K-DX-AR8WES-SG  
 [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	1325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.76
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\_13 ~ SP8ES-15L35K-DX-AR8WES-SG.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24375	12342	2096
55	20843	5499	367
65	10926	1076	210
75	2895	208	139
85	398	290	323

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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	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938
2.5	1606.315	1605.033	1620.224	1623.782	1633.149	1649.500	1650.988	1642.475	1623.871	1619.360
5.0	1581.887	1579.871	1598.227	1602.819	1620.794	1641.958	1632.840	1632.373	1601.837	1608.778
7.5	1540.744	1535.335	1560.364	1563.323	1583.601	1612.135	1599.457	1578.776	1537.906	1541.764
10.0	1494.034	1481.361	1512.716	1511.574	1541.392	1575.033	1526.379	1501.082	1443.985	1467.951
12.5	1412.047	1399.446	1436.218	1440.178	1463.843	1500.797	1434.256	1373.113	1304.088	1327.642
15.0	1321.093	1309.372	1345.465	1348.784	1381.274	1417.123	1298.042	1222.621	1138.290	1183.059
17.5	1220.085	1200.226	1231.036	1230.628	1258.385	1288.661	1145.225	1036.638	939.782	989.297
20.0	1117.276	1100.410	1107.398	1107.791	1132.287	1152.174	969.403	838.270	745.365	795.405
22.5	1052.177	1017.898	998.473	979.852	994.672	999.983	786.984	652.196	555.163	610.558
25.0	991.665	952.225	894.103	863.601	857.260	845.953	624.166	469.421	397.549	430.416
27.5	960.773	912.080	821.460	757.905	742.468	712.812	465.628	332.440	267.724	301.207
30.0	931.697	866.966	756.056	655.832	627.916	580.950	342.968	204.470	178.014	181.786
32.5	878.868	815.644	681.719	556.462	516.467	469.457	225.601	138.212	116.543	124.938
35.0	825.196	753.695	605.989	450.544	405.415	358.825	152.312	79.874	77.888	74.374
37.5	753.684	680.920	521.702	340.669	297.313	265.388	82.745	57.388	52.205	52.660
40.0	683.076	614.170	436.553	237.447	194.028	174.450	53.731	37.460	36.748	33.938
42.5	621.913	552.577	361.007	137.495	115.037	109.654	26.509	27.930	26.078	25.262
45.0	565.069	511.156	286.112	78.586	48.588	50.980	20.448	18.794	19.303	17.930
47.5	535.207	483.779	235.537	35.827	27.607	30.559	14.562	15.494	13.955	14.050
50.0	501.098	444.144	185.440	20.305	11.505	13.361	11.273	12.194	10.136	10.604
52.5	447.841	397.620	143.780	12.997	9.054	10.351	8.117	8.891	6.742	8.063
55.0	391.954	340.610	103.415	9.403	6.902	7.624	6.039	5.890	5.333	6.094
57.5	327.368	278.750	74.184	6.651	5.417	5.822	4.171	4.994	4.343	5.083
60.0	264.382	218.958	46.787	5.485	4.229	4.420	3.392	4.127	3.759	4.053
62.5	205.453	159.914	29.680	4.570	3.571	4.030	2.716	3.406	3.234	2.995
65.0	151.391	113.733	14.905	3.327	2.914	3.460	2.434	2.773	2.936	2.380
67.5	106.927	71.020	8.826	2.079	2.262	2.536	2.142	2.438	2.644	2.251
70.0	70.568	44.008	4.376	1.778	1.819	2.033	1.831	2.181	2.049	1.951
72.5	42.615	21.398	2.636	1.492	1.538	1.968	1.513	2.045	1.501	1.546
75.0	24.566	10.375	1.768	1.243	1.181	1.395	1.190	1.433	1.059	1.274
77.5	11.528	4.606	1.343	1.157	0.962	0.910	1.066	0.878	1.000	1.051
80.0	4.437	2.235	1.222	0.989	1.010	0.834	0.813	1.016	0.920	0.904
82.5	2.233	1.460	1.105	0.676	1.437	0.834	0.746	0.959	0.802	0.976
85.0	1.137	0.961	0.828	0.643	0.922	0.561	0.960	0.839	1.109	0.629
87.5	0.848	1.167	0.963	0.749	0.800	0.751	0.758	1.081	0.759	0.935
90.0	0.333	0.927	0.319	0.517	0.922	0.491	0.692	0.389	0.829	0.292

**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	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938	1635.938
2.5	1630.598	1629.059	1626.023	1628.305	1624.470	1617.518	1606.315
5.0	1607.424	1615.508	1603.861	1596.544	1591.477	1585.072	1581.887
7.5	1560.465	1573.611	1558.933	1543.519	1544.821	1540.168	1540.744
10.0	1481.698	1522.805	1501.390	1477.240	1482.709	1475.222	1494.034
12.5	1373.902	1435.322	1416.154	1390.337	1398.363	1390.070	1412.047
15.0	1233.893	1339.322	1317.590	1284.979	1292.888	1288.771	1321.093
17.5	1069.581	1203.082	1195.701	1156.310	1176.824	1174.186	1220.085
20.0	893.911	1060.415	1069.623	1030.280	1052.556	1075.900	1117.276
22.5	711.298	907.865	937.624	906.967	946.871	988.513	1052.177

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<b>25.0</b>	546.130	754.287	814.972	797.216	853.038	930.164	991.665
<b>27.5</b>	389.639	621.527	703.387	699.196	775.794	887.946	960.773
<b>30.0</b>	269.543	489.800	590.230	596.056	707.183	838.296	931.697
<b>32.5</b>	163.957	381.628	475.555	489.311	628.053	785.362	878.868
<b>35.0</b>	100.911	274.783	362.786	380.116	544.595	715.675	825.196
<b>37.5</b>	50.887	192.726	251.516	269.528	456.008	640.232	753.684
<b>40.0</b>	32.822	114.365	160.656	176.855	365.763	573.053	683.076
<b>42.5</b>	22.120	68.714	83.239	92.567	289.362	508.098	621.913
<b>45.0</b>	16.514	28.432	42.224	52.517	216.363	472.175	565.069
<b>47.5</b>	11.738	18.898	20.503	28.675	170.710	441.843	535.207
<b>50.0</b>	9.730	10.736	11.902	19.141	129.755	398.437	501.098
<b>52.5</b>	7.993	8.208	8.905	13.666	97.784	353.402	447.841
<b>55.0</b>	6.274	6.043	6.737	9.905	66.806	298.976	391.954
<b>57.5</b>	4.560	4.985	4.846	6.505	47.693	243.873	327.368
<b>60.0</b>	3.636	4.019	3.860	4.949	29.234	196.122	264.382
<b>62.5</b>	2.759	3.271	3.101	3.650	18.730	148.784	205.453
<b>65.0</b>	2.671	2.527	2.441	2.818	8.704	110.459	151.391
<b>67.5</b>	2.514	1.791	1.798	2.042	5.618	73.799	106.927
<b>70.0</b>	1.977	1.369	1.326	1.760	3.036	47.693	70.568
<b>72.5</b>	1.498	1.258	0.972	1.545	2.088	26.716	42.615
<b>75.0</b>	1.100	0.997	0.966	1.482	1.483	13.444	24.566
<b>77.5</b>	1.058	0.878	0.839	1.134	1.172	6.516	11.528
<b>80.0</b>	0.989	1.097	0.737	0.896	1.257	2.888	4.437
<b>82.5</b>	0.895	1.173	0.806	0.995	0.956	1.734	2.233
<b>85.0</b>	0.807	0.728	0.946	1.034	0.699	0.968	1.137
<b>87.5</b>	0.730	0.828	0.818	0.643	0.866	0.938	0.848
<b>90.0</b>	0.590	0.379	0.712	0.510	0.336	0.538	0.333

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Zone	Lumens	%Lamp	%Fixt
0-20	505.32	N.A.	38.10
0-30	853.09	N.A.	64.40
0-40	1094.2	N.A.	82.60
0-60	1291.25	N.A.	97.40
0-80	1324.41	N.A.	99.90
0-90	1325.45	N.A.	100.00
10-90	1175.63	N.A.	88.70
20-40	588.88	N.A.	44.40
20-50	714.27	N.A.	53.90
40-70	224.98	N.A.	17.00
60-80	33.16	N.A.	2.50
70-80	5.24	N.A.	0.40
80-90	1.03	N.A.	0.10
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	1325.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.82
10-20	355.49
20-30	347.77
30-40	241.11
40-50	125.39
50-60	71.67
60-70	27.92
70-80	5.24
80-90	1.03
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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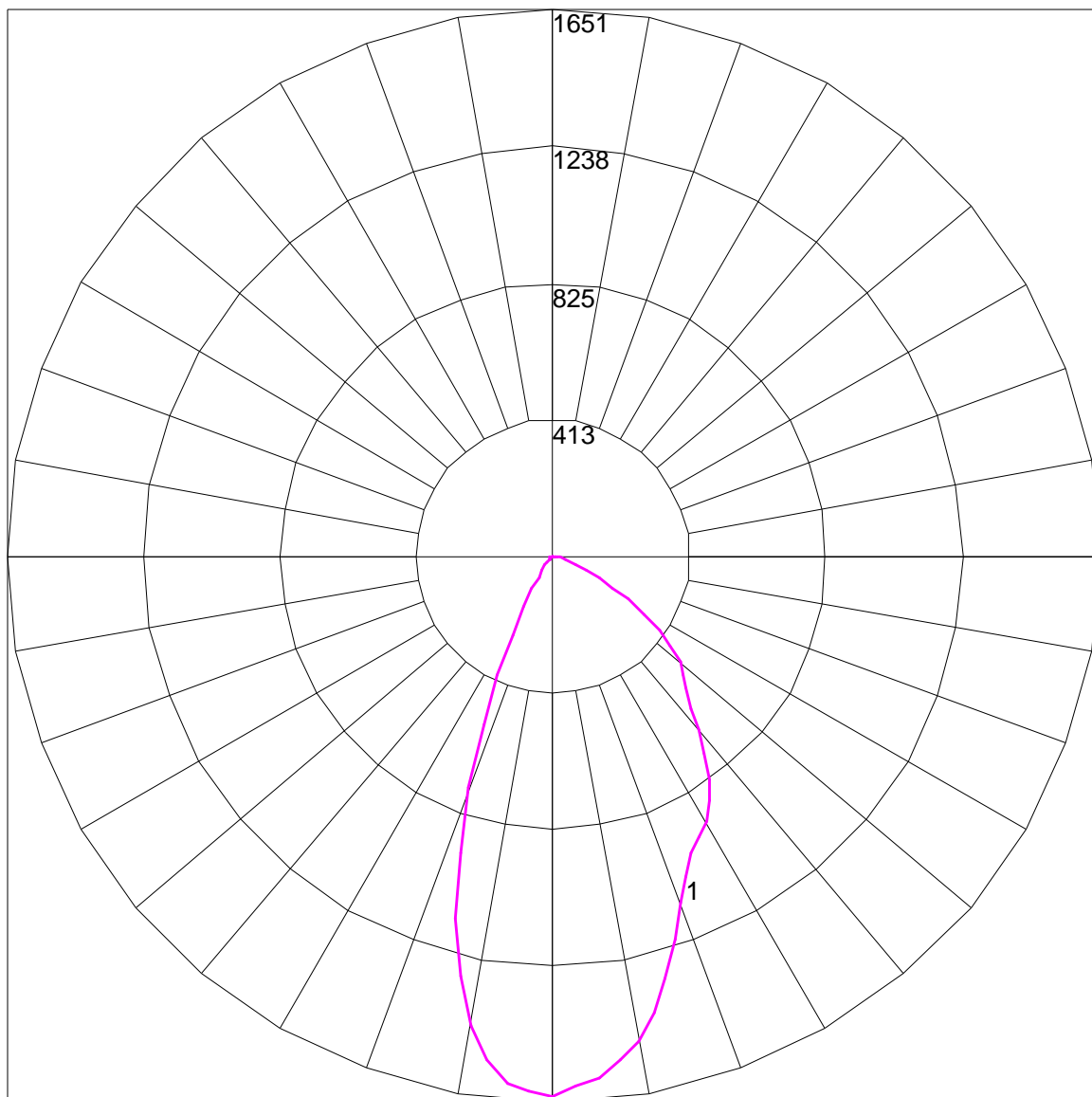
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62
7	81	71	65	60	80	71	64	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	50	58	53	49	58	53	49	57	52	49	48

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POLAR GRAPH



Maximum Candela = 1650.988 Located At Horizontal Angle = 135, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)