

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_10 ~ SP6ES-15L35K-DX-AR6WES-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00677\_10\_M-15L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 7/27/2018

[UPDATE] 10/10/2018

[LUMCAT] SP6ES-15L35K-DX-AR6WES-MW

[LUMINAIRE] Nom. 6.0" 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	1264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_10 ~ SP6ES-15L35K-DX-AR6WES-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	36234	21289	9800
55	36378	14216	7907
65	27612	9209	6984
75	16170	6495	5503
85	6353	2600	2284

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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>
<b>0.0</b>	914.477	914.476	914.476	914.476	914.476	914.476	914.476	914.476	914.476	914.476
<b>2.5</b>	918.375	914.679	914.760	911.792	907.584	911.313	910.795	904.295	919.822	913.217
<b>5.0</b>	916.984	912.886	911.722	903.509	899.763	905.987	903.368	897.828	905.965	906.003
<b>7.5</b>	915.773	912.850	906.205	891.692	888.238	895.813	885.399	869.203	878.008	878.681
<b>10.0</b>	914.688	909.960	900.377	878.321	874.139	882.271	859.252	837.811	829.712	844.535
<b>12.5</b>	908.803	902.761	888.854	864.104	853.436	861.597	821.797	782.821	765.099	787.828
<b>15.0</b>	900.185	892.494	876.966	841.824	828.916	836.862	775.516	726.219	690.875	725.386
<b>17.5</b>	888.473	878.462	854.897	815.999	797.844	802.355	719.297	648.815	610.389	647.944
<b>20.0</b>	875.334	862.348	832.453	785.427	763.751	763.342	654.895	570.799	524.711	567.665
<b>22.5</b>	859.879	844.093	804.286	753.201	723.043	714.455	582.868	485.452	436.226	481.613
<b>25.0</b>	843.589	815.616	773.996	703.077	679.952	662.011	511.411	400.918	354.019	394.859
<b>27.5</b>	808.864	778.547	720.739	648.261	614.918	595.058	440.396	325.595	274.507	321.002
<b>30.0</b>	769.007	730.336	665.284	573.325	543.646	524.066	373.165	253.360	218.223	247.934
<b>32.5</b>	717.621	674.394	594.880	494.438	463.367	449.316	308.300	202.120	169.663	200.203
<b>35.0</b>	663.862	615.905	524.261	409.646	381.236	373.793	251.030	156.771	147.542	154.028
<b>37.5</b>	608.100	555.967	452.655	324.098	304.044	304.868	197.692	138.460	132.277	139.274
<b>40.0</b>	552.064	502.207	384.222	250.875	227.548	236.844	160.190	122.737	123.867	125.210
<b>42.5</b>	509.412	451.243	326.441	178.477	176.002	186.056	129.169	116.061	116.718	118.698
<b>45.0</b>	467.810	420.392	274.863	143.575	126.519	136.693	113.970	109.370	110.452	112.006
<b>47.5</b>	448.217	396.779	239.794	110.228	112.151	117.827	103.758	102.638	104.290	104.112
<b>50.0</b>	429.094	376.264	206.337	102.181	98.824	100.032	96.608	95.794	96.842	96.399
<b>52.5</b>	405.628	356.611	176.250	94.120	90.757	92.666	90.207	88.717	89.311	89.501
<b>55.0</b>	380.970	321.560	148.883	85.898	82.804	85.343	83.602	81.704	81.850	82.772
<b>57.5</b>	340.108	283.426	126.129	77.707	76.397	78.617	76.963	74.803	74.380	76.606
<b>60.0</b>	298.960	241.936	105.136	69.730	69.803	71.771	70.057	68.249	66.686	69.859
<b>62.5</b>	255.690	199.990	86.594	61.796	61.828	64.041	63.124	62.179	59.071	61.587
<b>65.0</b>	213.067	163.890	71.059	54.068	53.893	56.454	55.154	55.245	52.315	53.764
<b>67.5</b>	173.323	128.500	58.839	46.391	46.146	49.502	47.201	47.362	45.648	46.828
<b>70.0</b>	135.947	98.942	47.994	38.849	38.849	42.404	40.343	40.108	39.363	39.871
<b>72.5</b>	103.100	72.468	38.003	31.910	32.413	35.026	33.512	33.252	32.941	32.893
<b>75.0</b>	76.414	52.868	30.692	25.526	26.007	29.017	26.738	28.011	26.345	26.900
<b>77.5</b>	54.003	38.287	23.322	19.614	19.681	23.138	20.724	21.766	20.254	20.770
<b>80.0</b>	36.974	25.811	15.776	13.365	13.601	15.458	14.379	14.293	13.957	13.935
<b>82.5</b>	23.338	14.774	9.553	7.468	8.456	8.530	8.072	8.981	8.065	9.036
<b>85.0</b>	10.110	6.474	4.137	3.454	3.635	5.521	4.384	4.409	4.016	4.057
<b>87.5</b>	2.097	1.786	1.371	1.178	1.194	1.723	1.464	1.534	1.905	1.761
<b>90.0</b>	0.392	0.614	0.309	0.564	0.538	0.333	0.836	0.256	0.565	0.285

**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>
<b>0.0</b>	914.476	914.476	914.476	914.476	914.476	914.476	914.476
<b>2.5</b>	916.661	913.890	911.835	912.408	909.938	908.709	918.375
<b>5.0</b>	912.861	908.030	906.520	905.811	906.370	907.597	916.984
<b>7.5</b>	896.552	898.954	896.105	893.998	900.991	905.559	915.773
<b>10.0</b>	874.065	886.628	881.434	878.861	894.926	901.972	914.688
<b>12.5</b>	833.630	866.757	863.350	861.056	886.299	893.888	908.803
<b>15.0</b>	786.973	840.669	840.641	838.966	876.917	883.354	900.185
<b>17.5</b>	726.019	806.129	814.922	814.086	857.375	867.282	888.473
<b>20.0</b>	660.230	765.848	784.164	783.770	835.595	850.799	875.334
<b>22.5</b>	585.476	718.056	750.767	750.563	805.863	833.555	859.879

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<b>25.0</b>	511.693	666.086	705.838	703.544	774.946	808.102	843.589
<b>27.5</b>	439.358	600.884	655.961	650.602	719.586	770.387	808.864
<b>30.0</b>	370.347	529.826	584.365	578.359	661.922	723.568	769.007
<b>32.5</b>	305.429	455.907	505.548	499.700	588.749	665.696	717.621
<b>35.0</b>	247.625	380.984	423.288	416.637	515.038	606.491	663.862
<b>37.5</b>	197.067	312.225	340.154	332.433	443.399	545.927	608.100
<b>40.0</b>	158.917	245.128	266.774	259.011	372.442	490.172	552.064
<b>42.5</b>	131.084	193.175	195.186	187.570	312.409	438.416	509.412
<b>45.0</b>	114.407	144.145	153.509	150.212	255.071	404.695	467.810
<b>47.5</b>	105.496	122.303	115.325	116.831	219.635	383.168	448.217
<b>50.0</b>	98.155	104.105	104.506	105.449	185.652	363.285	429.094
<b>52.5</b>	91.694	95.770	95.352	95.495	159.284	344.327	405.628
<b>55.0</b>	84.490	88.150	89.005	86.489	134.093	311.296	380.970
<b>57.5</b>	76.952	80.805	82.570	77.556	113.499	271.970	340.108
<b>60.0</b>	69.477	73.468	73.337	70.157	94.574	232.288	298.960
<b>62.5</b>	62.023	66.235	64.394	62.796	80.543	192.481	255.690
<b>65.0</b>	54.913	59.026	58.473	55.844	67.684	156.463	213.067
<b>67.5</b>	47.897	52.051	52.121	48.836	57.372	121.467	173.323
<b>70.0</b>	40.659	44.765	43.926	41.587	47.703	95.193	135.947
<b>72.5</b>	33.645	36.627	36.763	34.249	38.775	71.174	103.100
<b>75.0</b>	27.673	30.475	30.872	26.803	31.203	52.970	76.414
<b>77.5</b>	22.170	25.175	24.043	21.660	23.939	38.721	54.003
<b>80.0</b>	16.350	17.656	18.008	15.362	16.601	26.943	36.974
<b>82.5</b>	9.633	12.067	12.756	8.680	11.078	16.256	23.338
<b>85.0</b>	4.960	6.024	7.037	4.452	4.374	6.964	10.110
<b>87.5</b>	1.901	2.644	2.477	1.750	1.841	1.984	2.097
<b>90.0</b>	0.735	0.580	0.646	0.502	0.430	0.400	0.392

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Zone	Lumens	%Lamp	%Fixt
0-20	315.39	N.A.	25.00
0-30	608.33	N.A.	48.10
0-40	853.73	N.A.	67.60
0-60	1139.54	N.A.	90.20
0-80	1256.29	N.A.	99.40
0-90	1263.72	N.A.	100.00
10-90	1178.11	N.A.	93.20
20-40	538.34	N.A.	42.60
20-50	700.22	N.A.	55.40
40-70	365.59	N.A.	28.90
60-80	116.75	N.A.	9.20
70-80	36.97	N.A.	2.90
80-90	7.44	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	1263.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.62
10-20	229.77
20-30	292.94
30-40	245.40
40-50	161.88
50-60	123.93
60-70	79.78
70-80	36.97
80-90	7.44
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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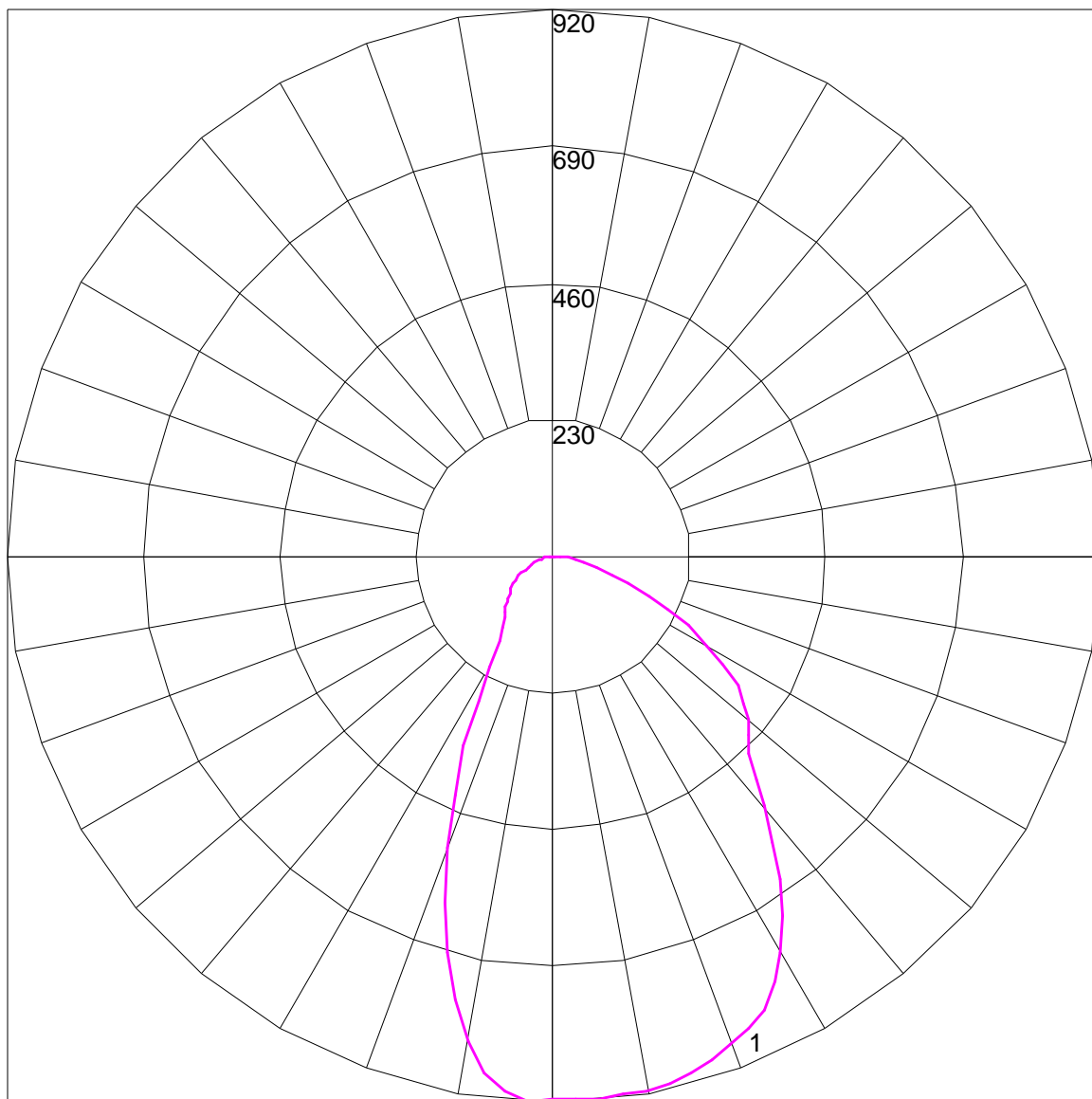
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

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POLAR GRAPH



Maximum Candela = 919.822 Located At Horizontal Angle = 180, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)