

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00677_13 ~ SP8ES-11L35K-DX-AR8WES-SG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00677_13_M-11L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/27/2018
 [UPDATE] 10/10/2018
 [LUMCAT] SP8ES-11L35K-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	972
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	11
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-11L35K-DX-AR8WES-SG.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17875	9051	1537
55	15285	4033	269
65	8013	789	154
75	2123	153	102
85	292	212	237

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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	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688
2.5	1177.965	1177.024	1188.164	1190.773	1197.643	1209.633	1210.725	1204.481	1190.839	1187.530
5.0	1160.051	1158.572	1172.034	1175.401	1188.582	1204.102	1197.416	1197.073	1174.681	1179.770
7.5	1129.879	1125.912	1144.267	1146.437	1161.307	1182.232	1172.935	1157.769	1127.798	1130.627
10.0	1095.625	1086.331	1109.325	1108.488	1130.354	1155.024	1119.345	1100.793	1058.922	1076.497
12.5	1035.501	1026.260	1053.227	1056.130	1073.485	1100.585	1051.788	1006.949	956.331	973.604
15.0	968.801	960.207	986.674	989.108	1012.934	1039.223	951.897	896.589	834.746	867.577
17.5	894.729	880.166	902.760	902.460	922.816	945.018	839.832	760.201	689.174	725.484
20.0	819.336	806.967	812.092	812.380	830.344	844.928	710.895	614.732	546.601	583.297
22.5	771.597	746.458	732.213	718.558	729.426	733.321	577.122	478.277	407.119	447.742
25.0	727.221	698.298	655.675	633.307	628.657	620.366	457.722	344.242	291.536	315.638
27.5	704.567	668.859	602.404	555.797	544.477	522.729	341.461	243.790	196.331	220.885
30.0	683.244	635.775	554.441	480.943	460.472	426.030	251.510	149.945	130.544	133.310
32.5	644.503	598.139	499.927	408.072	378.743	344.268	165.441	101.356	85.465	91.621
35.0	605.144	552.710	444.392	330.399	297.304	263.139	111.696	58.574	57.118	54.541
37.5	552.702	499.341	382.581	249.824	218.029	194.618	60.680	42.084	38.283	38.617
40.0	500.922	450.391	320.139	174.128	142.287	127.930	39.403	27.471	26.948	24.888
42.5	456.070	405.223	264.739	100.830	84.361	80.413	19.440	20.482	19.124	18.525
45.0	414.384	374.848	209.816	57.630	35.631	37.385	14.995	13.782	14.156	13.148
47.5	392.485	354.771	172.728	26.273	20.245	22.410	10.679	11.362	10.234	10.304
50.0	367.472	325.706	135.989	14.890	8.437	9.798	8.267	8.942	7.433	7.776
52.5	328.417	291.588	105.439	9.531	6.640	7.591	5.952	6.520	4.944	5.913
55.0	287.433	249.780	75.838	6.896	5.062	5.591	4.429	4.319	3.911	4.469
57.5	240.070	204.416	54.402	4.877	3.972	4.270	3.059	3.662	3.185	3.728
60.0	193.881	160.569	34.311	4.022	3.101	3.241	2.488	3.027	2.757	2.972
62.5	150.666	117.270	21.766	3.351	2.619	2.956	1.992	2.498	2.372	2.197
65.0	111.020	83.404	10.931	2.440	2.137	2.537	1.785	2.033	2.153	1.745
67.5	78.414	52.081	6.472	1.525	1.659	1.860	1.571	1.788	1.939	1.651
70.0	51.750	32.273	3.209	1.304	1.334	1.491	1.343	1.599	1.503	1.431
72.5	31.251	15.692	1.933	1.095	1.128	1.443	1.109	1.500	1.101	1.134
75.0	18.015	7.608	1.297	0.911	0.866	1.023	0.873	1.051	0.777	0.934
77.5	8.454	3.378	0.985	0.849	0.706	0.668	0.782	0.644	0.734	0.771
80.0	3.254	1.639	0.897	0.725	0.741	0.612	0.596	0.745	0.675	0.663
82.5	1.638	1.070	0.810	0.496	1.054	0.612	0.547	0.703	0.589	0.716
85.0	0.834	0.705	0.607	0.471	0.677	0.411	0.704	0.615	0.813	0.461
87.5	0.622	0.856	0.706	0.549	0.587	0.551	0.556	0.793	0.557	0.686
90.0	0.244	0.680	0.234	0.380	0.677	0.360	0.508	0.285	0.608	0.215

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	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688	1199.688
2.5	1195.772	1194.643	1192.417	1194.091	1191.278	1186.180	1177.965
5.0	1178.778	1184.706	1176.165	1170.799	1167.083	1162.387	1160.051
7.5	1144.341	1153.981	1143.217	1131.914	1132.869	1129.456	1129.879
10.0	1086.579	1116.724	1101.019	1083.309	1087.320	1081.830	1095.625
12.5	1007.528	1052.569	1038.513	1019.581	1025.466	1019.385	1035.501
15.0	904.855	982.170	966.232	942.318	948.118	945.099	968.801
17.5	784.359	882.261	876.847	847.961	863.004	861.070	894.729
20.0	655.535	777.637	784.390	755.539	771.874	788.994	819.336
22.5	521.619	665.767	687.591	665.109	694.372	724.909	771.597

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25.0	400.495	553.144	597.646	584.625	625.561	682.120	727.221
27.5	285.735	455.787	515.817	512.744	568.916	651.160	704.567
30.0	197.665	359.187	432.835	437.108	518.601	614.750	683.244
32.5	120.235	279.860	348.741	358.828	460.572	575.932	644.503
35.0	74.001	201.507	266.043	278.752	399.369	524.828	605.144
37.5	37.317	141.332	184.445	197.654	334.406	469.504	552.702
40.0	24.070	83.867	117.814	129.694	268.226	420.239	500.922
42.5	16.221	50.390	61.042	67.883	212.199	372.605	456.070
45.0	12.110	20.850	30.964	38.512	158.666	346.262	414.384
47.5	8.608	13.858	15.036	21.029	125.187	324.018	392.485
50.0	7.135	7.873	8.729	14.037	95.154	292.187	367.472
52.5	5.861	6.019	6.531	10.022	71.708	259.162	328.417
55.0	4.601	4.431	4.940	7.264	48.991	219.249	287.433
57.5	3.344	3.656	3.554	4.771	34.975	178.840	240.070
60.0	2.666	2.947	2.831	3.629	21.438	143.823	193.881
62.5	2.023	2.399	2.274	2.677	13.736	109.108	150.666
65.0	1.959	1.853	1.790	2.066	6.383	81.003	111.020
67.5	1.844	1.313	1.319	1.498	4.120	54.119	78.414
70.0	1.450	1.004	0.972	1.290	2.226	34.975	51.750
72.5	1.098	0.922	0.713	1.133	1.531	19.592	31.251
75.0	0.807	0.731	0.708	1.087	1.087	9.859	18.015
77.5	0.776	0.644	0.615	0.832	0.860	4.778	8.454
80.0	0.725	0.805	0.540	0.657	0.922	2.118	3.254
82.5	0.657	0.860	0.591	0.730	0.701	1.272	1.638
85.0	0.592	0.534	0.694	0.758	0.513	0.710	0.834
87.5	0.535	0.607	0.600	0.472	0.635	0.688	0.622
90.0	0.432	0.278	0.522	0.374	0.246	0.394	0.244

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Zone	Lumens	%Lamp	%Fixt
0-20	370.56	N.A.	38.10
0-30	625.60	N.A.	64.40
0-40	802.41	N.A.	82.60
0-60	946.92	N.A.	97.40
0-80	971.24	N.A.	99.90
0-90	972.00	N.A.	100.00
10-90	862.13	N.A.	88.70
20-40	431.85	N.A.	44.40
20-50	523.80	N.A.	53.90
40-70	164.98	N.A.	17.00
60-80	24.32	N.A.	2.50
70-80	3.84	N.A.	0.40
80-90	0.76	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	972.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.87
10-20	260.69
20-30	255.03
30-40	176.81
40-50	91.95
50-60	52.56
60-70	20.48
70-80	3.84
80-90	0.76
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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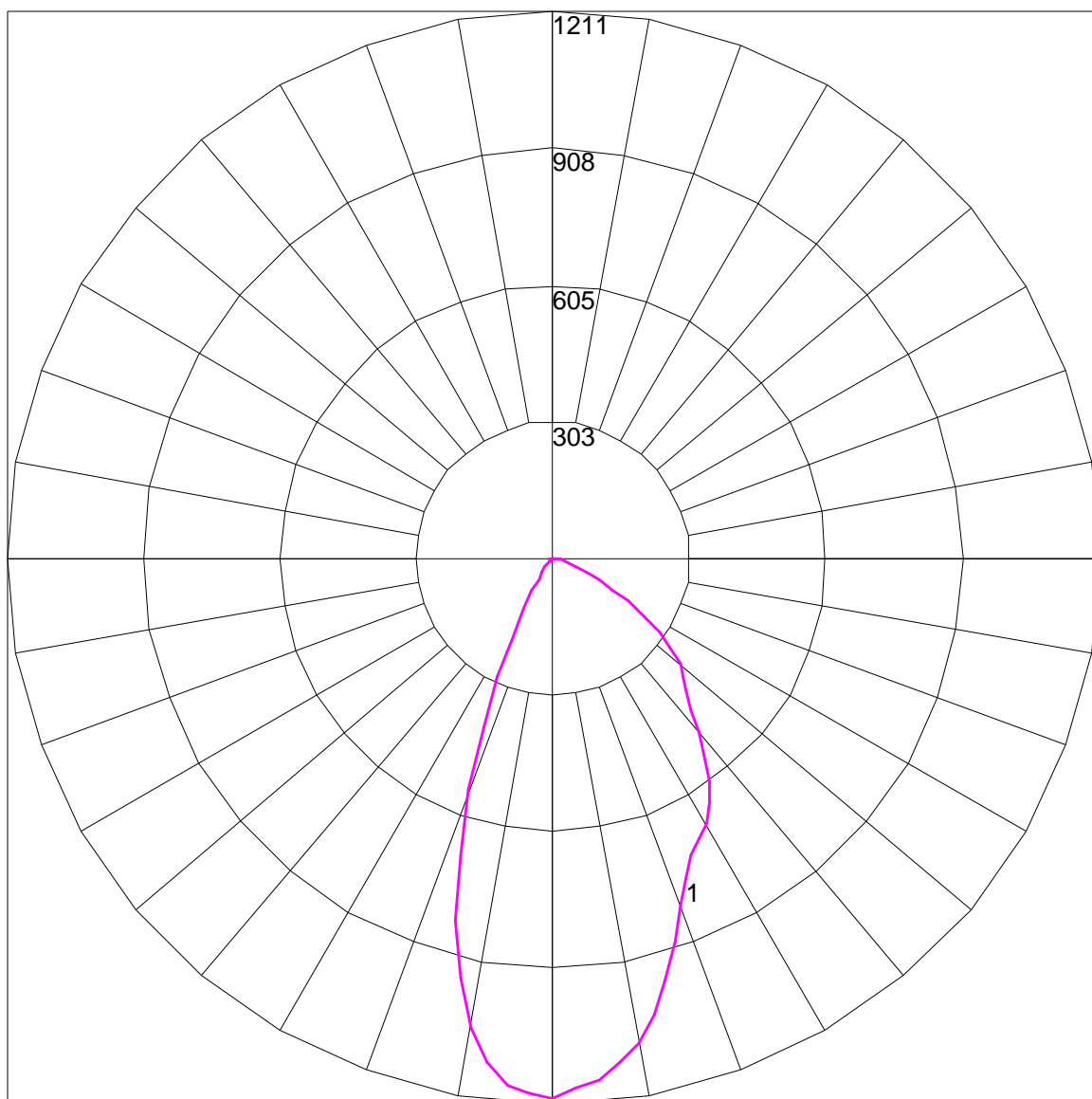
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	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	88	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	70	64	60	69	64	60	68	63	60	67	62	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	52	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 = 1210.725 Located At Horizontal Angle = 135, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)