

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_11 ~ SP6ES-20L35K-DX-AR6WES-SG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00677_11
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/27/2018
[UPDATE] 10/8/2018
[LUMCAT] SP6ES-20L35K-DX-AR6WES-SG
[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
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_11 ~ SP6ES-20L35K-DX-AR6WES-SG.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	46070	20396	3937
55	43817	9649	1097
65	29959	3073	609
75	13383	778	506
85	1650	738	755

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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	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723
2.5	2048.833	2043.502	2053.089	2060.263	2077.542	2074.680	2108.073	2089.462	2083.420	2081.519
5.0	2018.329	2012.283	2027.205	2033.267	2060.195	2072.848	2101.661	2090.236	2075.709	2087.985
7.5	1975.610	1969.605	1986.022	1992.644	2024.994	2048.430	2079.678	2050.167	2030.784	2045.354
10.0	1929.539	1917.921	1943.310	1937.504	1982.627	2021.056	2028.129	1997.434	1961.020	1998.646
12.5	1848.479	1834.325	1859.958	1869.089	1907.953	1952.742	1950.675	1886.383	1847.541	1884.033
15.0	1760.196	1738.067	1774.329	1772.572	1823.152	1881.275	1830.708	1761.436	1703.886	1765.839
17.5	1636.139	1607.823	1635.075	1654.866	1681.997	1741.563	1680.504	1574.013	1517.464	1579.695
20.0	1507.217	1472.418	1494.110	1497.191	1527.549	1598.622	1483.561	1376.330	1302.099	1389.497
22.5	1373.391	1326.188	1324.363	1315.175	1342.079	1399.043	1259.424	1132.291	1053.440	1145.698
25.0	1239.185	1189.261	1156.217	1132.180	1151.580	1198.789	1030.133	883.684	813.805	904.121
27.5	1137.090	1068.379	1001.887	948.694	959.771	990.263	798.417	665.780	582.863	679.135
30.0	1036.346	959.702	852.272	777.878	767.825	786.149	606.056	449.797	400.664	467.290
32.5	955.493	867.990	728.312	612.062	601.903	612.412	428.151	311.026	256.661	319.847
35.0	874.834	780.806	609.789	469.689	437.486	447.506	298.686	176.518	162.941	190.136
37.5	796.562	698.734	512.608	334.379	314.113	323.338	182.952	117.122	101.096	124.304
40.0	719.870	623.743	419.030	226.799	193.284	209.359	115.253	62.028	66.074	70.560
42.5	654.457	555.449	336.211	125.610	119.081	131.003	57.605	45.006	45.100	50.329
45.0	594.794	508.421	263.329	76.651	50.832	66.585	38.519	29.855	33.028	34.141
47.5	562.387	477.741	213.387	35.907	34.386	39.137	24.775	25.070	24.634	26.685
50.0	530.016	446.373	168.414	25.108	19.789	19.308	19.767	20.445	19.756	20.551
52.5	497.773	414.578	132.813	17.075	15.314	15.291	15.456	16.454	16.016	16.726
55.0	458.885	367.669	101.047	13.779	11.488	12.082	13.115	12.908	13.301	13.674
57.5	402.015	313.009	75.084	10.695	10.281	10.249	10.827	10.707	10.836	11.724
60.0	344.502	260.020	53.431	8.743	8.826	8.711	8.530	8.565	9.245	9.897
62.5	285.634	207.704	37.062	6.795	6.626	7.576	6.345	6.560	7.803	8.211
65.0	231.172	161.220	23.711	4.917	4.701	6.216	5.648	5.336	6.468	6.767
67.5	183.960	116.549	13.380	3.250	3.381	4.606	4.958	5.519	5.144	5.551
70.0	137.482	82.902	7.655	2.672	2.705	3.603	4.301	5.133	3.806	4.217
72.5	91.664	53.111	4.493	2.281	2.781	2.977	3.794	4.193	2.807	2.820
75.0	63.244	34.855	3.675	2.145	2.392	2.690	3.480	2.700	2.628	2.430
77.5	40.956	20.426	2.748	1.848	2.023	2.366	2.649	1.762	2.295	2.279
80.0	24.434	9.734	1.641	1.572	1.966	1.987	1.809	2.079	1.786	2.178
82.5	10.672	3.431	1.125	1.340	1.108	1.847	1.209	1.781	1.151	0.879
85.0	2.626	1.213	1.175	1.267	1.202	1.249	1.254	1.100	0.933	1.280
87.5	1.374	1.352	0.937	1.157	0.989	1.487	1.213	1.024	1.182	1.062
90.0	0.388	1.123	0.391	0.569	0.781	0.490	0.910	0.502	1.035	0.457

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	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723	2079.723
2.5	2085.280	2078.833	2083.545	2051.107	2078.278	2050.558	2048.833
5.0	2086.433	2074.780	2071.749	2025.243	2046.969	2017.164	2018.329
7.5	2055.461	2054.879	2047.692	1983.450	2006.563	1976.730	1975.610
10.0	2011.468	2025.453	2009.482	1932.827	1960.438	1920.324	1929.539
12.5	1925.748	1964.177	1952.772	1857.424	1885.573	1838.260	1848.479
15.0	1819.673	1887.386	1870.130	1767.233	1795.783	1740.219	1760.196
17.5	1662.697	1767.113	1759.932	1644.748	1669.225	1621.429	1636.139
20.0	1484.717	1630.247	1619.599	1505.662	1527.619	1488.957	1507.217
22.5	1265.420	1447.351	1452.822	1337.307	1369.000	1342.039	1373.391

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25.0	1044.954	1250.832	1273.469	1164.550	1205.036	1204.906	1239.185
27.5	822.591	1046.189	1085.026	985.449	1046.211	1076.427	1137.090
30.0	622.267	839.756	898.196	813.163	888.628	963.630	1036.346
32.5	450.845	662.250	712.307	648.841	756.042	862.096	955.493
35.0	309.336	489.037	547.534	499.396	627.641	771.357	874.834
37.5	199.718	360.883	392.879	364.306	519.086	686.964	796.562
40.0	120.762	236.723	271.754	249.771	412.544	608.151	719.870
42.5	69.188	155.786	163.195	151.603	324.145	531.992	654.457
45.0	40.642	77.266	97.463	88.956	236.795	482.435	594.794
47.5	28.797	49.331	43.899	49.205	188.151	442.768	562.387
50.0	21.284	22.850	27.015	29.986	140.376	410.093	530.016
52.5	16.305	18.363	18.020	21.542	108.640	379.427	497.773
55.0	13.130	14.184	14.791	16.211	78.114	331.784	458.885
57.5	10.822	12.411	12.389	12.191	58.577	280.529	402.015
60.0	9.502	10.566	10.593	9.944	40.046	230.189	344.502
62.5	8.552	8.352	8.845	8.271	27.185	179.979	285.634
65.0	6.452	6.368	7.064	6.415	15.816	137.334	231.172
67.5	4.028	5.193	5.331	4.512	10.013	95.862	183.960
70.0	3.858	4.152	4.151	3.300	5.731	69.230	137.482
72.5	3.785	3.321	3.116	2.315	4.014	45.401	91.664
75.0	3.003	2.706	2.351	1.978	2.919	27.817	63.244
77.5	2.179	2.200	1.873	1.553	2.261	15.909	40.956
80.0	1.538	1.782	1.725	1.256	2.207	7.797	24.434
82.5	1.389	1.037	1.648	1.365	1.641	3.442	10.672
85.0	1.290	1.020	1.007	1.590	1.192	1.712	2.626
87.5	0.849	1.205	1.003	1.013	1.146	0.851	1.374
90.0	0.916	0.607	0.746	0.958	0.416	1.028	0.388

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Zone	Lumens	%Lamp	%Fixt
0-20	687.71	N.A.	38.60
0-30	1195.78	N.A.	67.20
0-40	1502.9	N.A.	84.40
0-60	1726.51	N.A.	97.00
0-80	1778.39	N.A.	99.90
0-90	1780.3	N.A.	100.00
10-90	1586.77	N.A.	89.10
20-40	815.20	N.A.	45.80
20-50	955.96	N.A.	53.70
40-70	263.91	N.A.	14.80
60-80	51.88	N.A.	2.90
70-80	11.58	N.A.	0.70
80-90	1.91	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	1780.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.54
10-20	494.17
20-30	508.08
30-40	307.12
40-50	140.77
50-60	82.84
60-70	40.31
70-80	11.58
80-90	1.91
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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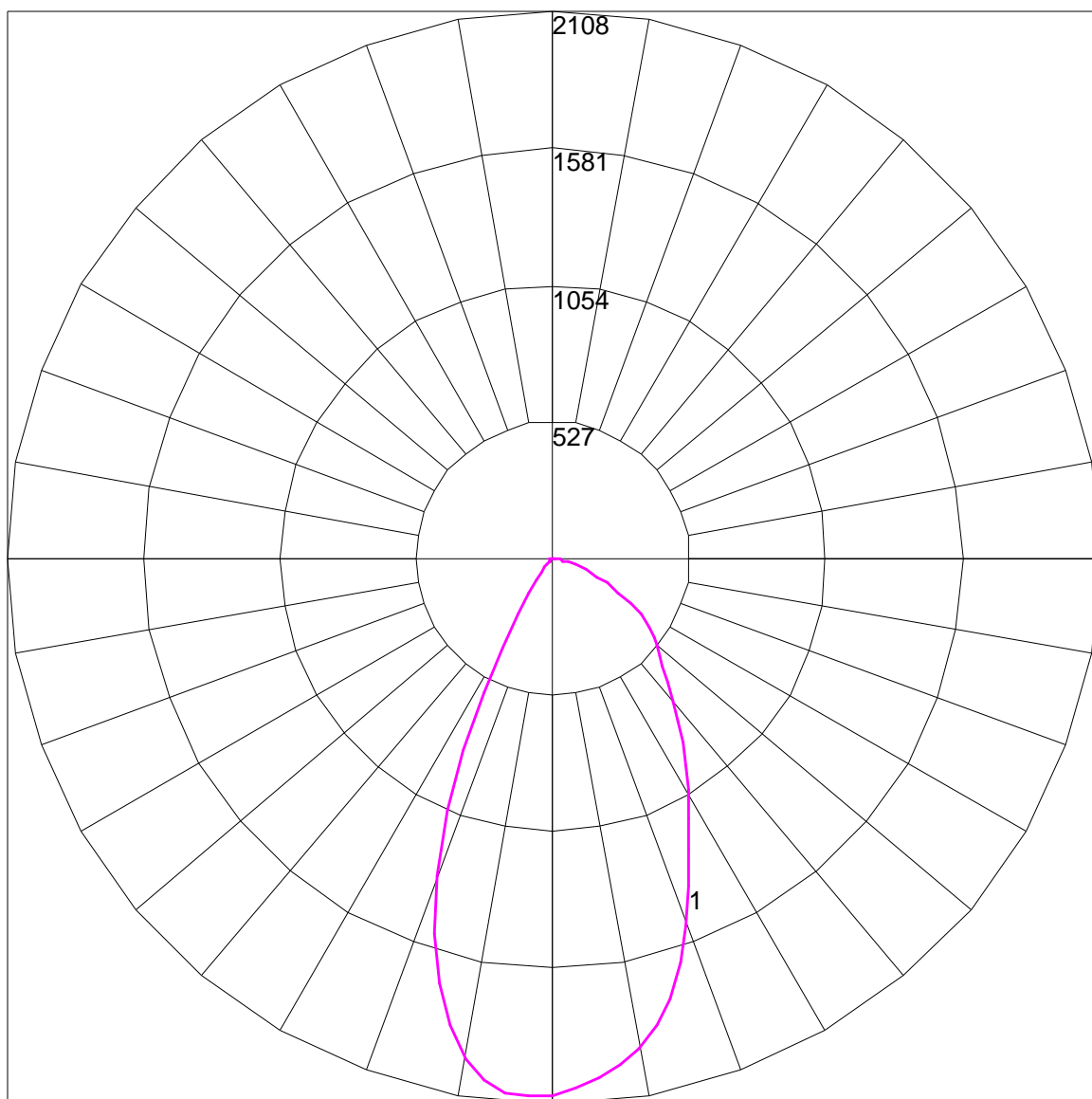
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	61	69	64	60	67	63	60	58
8	77	68	61	57	76	67	61	57	66	61	57	65	60	56	64	59	56	55
9	74	64	58	54	73	63	57	53	62	57	53	61	57	53	61	56	53	51
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 2108.073 Located At Horizontal Angle = 135, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)