

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_12 ~ SP8ES-20L35K-DX-AR8WES-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00677_12
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/27/2018
[UPDATE] 10/10/2018
[LUMCAT] SP8ES-20L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	20
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-20L35K-DX-AR8WES-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31002	16165	7137
55	33044	10854	5755
65	24656	6921	5258
75	13547	4600	4384
85	3723	1887	1856

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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	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202
2.5	1202.304	1199.829	1199.988	1198.617	1199.556	1196.615	1199.037	1194.143	1190.790	1192.241
5.0	1197.930	1195.699	1192.878	1191.133	1192.288	1187.400	1183.940	1173.026	1159.527	1176.512
7.5	1193.363	1189.109	1182.914	1172.936	1174.598	1171.707	1151.415	1126.898	1103.343	1123.313
10.0	1188.687	1179.862	1172.603	1152.137	1156.345	1152.002	1104.036	1055.777	1020.958	1058.494
12.5	1176.665	1166.349	1150.432	1123.469	1125.245	1117.660	1035.152	962.346	913.567	959.149
15.0	1161.291	1148.059	1127.539	1090.878	1092.787	1075.955	951.690	850.773	792.009	851.949
17.5	1143.989	1123.381	1092.887	1048.970	1042.911	1016.482	850.863	728.862	659.133	725.986
20.0	1126.003	1103.086	1058.326	1006.620	993.384	949.985	747.509	600.143	532.107	597.031
22.5	1118.612	1087.553	1028.891	963.430	946.418	879.887	641.706	482.953	408.863	479.338
25.0	1114.170	1074.480	999.000	918.670	898.046	808.679	541.970	372.050	316.661	362.755
27.5	1104.106	1063.584	964.480	871.513	842.709	735.568	447.088	291.013	240.546	288.033
30.0	1092.919	1024.019	922.456	799.687	775.825	662.016	363.134	222.865	202.710	215.465
32.5	1033.653	963.255	833.348	696.884	667.826	570.190	286.363	192.230	181.053	193.595
35.0	968.140	888.551	741.336	581.022	555.795	475.478	230.813	174.107	169.484	172.433
37.5	892.316	805.527	636.555	451.629	432.496	382.722	186.455	164.003	161.202	162.908
40.0	815.708	736.874	536.165	338.000	319.859	290.163	164.391	155.978	153.766	153.661
42.5	766.388	675.059	449.936	237.666	230.418	225.103	151.769	147.599	146.538	146.688
45.0	718.713	651.454	374.757	179.044	165.452	161.714	141.514	139.154	138.060	139.609
47.5	708.808	642.571	327.866	149.802	142.839	145.190	132.046	130.508	129.361	131.955
50.0	696.933	616.537	283.009	132.055	125.676	129.053	123.703	121.838	121.982	124.129
52.5	661.169	585.471	242.239	120.827	116.337	119.582	115.638	113.623	114.749	115.626
55.0	621.390	525.373	204.108	110.071	108.215	110.263	107.218	105.435	105.866	107.293
57.5	554.163	458.946	170.217	99.528	101.511	102.224	98.734	97.110	96.895	99.451
60.0	485.966	390.761	140.633	90.420	92.927	94.086	90.973	88.786	87.795	90.824
62.5	413.210	322.312	116.809	81.834	82.559	85.426	83.294	80.545	78.715	80.362
65.0	341.624	259.615	95.894	72.399	72.855	76.476	73.638	72.215	70.032	70.803
67.5	273.842	197.883	78.057	62.736	63.665	66.463	63.921	63.123	61.265	62.847
70.0	212.871	149.953	63.885	53.019	55.257	57.015	54.937	54.044	52.032	54.778
72.5	162.213	106.244	51.870	43.636	47.166	48.496	46.324	45.000	43.208	46.600
75.0	114.955	72.210	39.034	35.689	37.201	39.300	38.475	35.920	34.969	38.482
77.5	72.645	47.987	27.879	27.014	27.843	30.180	29.308	27.124	26.187	30.062
80.0	41.254	29.521	19.158	18.442	19.332	22.147	20.516	19.961	18.773	21.088
82.5	24.367	16.207	11.912	11.137	11.945	14.007	12.746	12.765	13.056	13.080
85.0	10.638	7.535	5.391	5.432	5.302	7.458	6.172	7.634	7.519	7.424
87.5	2.613	2.256	2.052	1.883	2.230	2.877	2.830	2.654	3.095	3.032
90.0	0.472	0.932	0.485	0.722	0.993	0.519	0.637	0.546	0.896	0.419

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	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202	1203.202
2.5	1196.320	1199.314	1201.556	1197.593	1202.122	1201.889	1202.304
5.0	1182.905	1193.577	1195.923	1188.612	1196.613	1197.703	1197.930
7.5	1149.790	1177.204	1181.714	1173.182	1191.355	1191.503	1193.363
10.0	1106.614	1159.630	1165.122	1151.537	1186.187	1181.576	1188.687
12.5	1034.146	1122.933	1137.208	1124.369	1169.837	1169.583	1176.665
15.0	953.050	1085.226	1105.733	1089.939	1150.447	1150.371	1161.291
17.5	852.147	1025.702	1061.753	1050.191	1113.303	1127.932	1143.989
20.0	748.672	965.459	1016.107	1007.744	1072.716	1108.668	1126.003
22.5	640.447	891.220	966.021	963.701	1040.399	1090.506	1118.612

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25.0	536.928	817.104	916.407	922.800	1009.191	1081.463	1114.170
27.5	440.390	744.133	867.807	883.402	976.667	1074.841	1104.106
30.0	354.068	668.352	801.553	806.464	944.049	1028.814	1092.919
32.5	280.391	575.460	705.062	715.232	857.128	975.171	1033.653
35.0	224.173	482.338	597.712	597.824	768.815	894.480	968.140
37.5	185.539	388.253	475.369	472.841	662.231	810.425	892.316
40.0	162.323	300.125	362.028	359.293	557.536	737.384	815.708
42.5	151.743	230.477	259.077	248.257	474.509	665.081	766.388
45.0	142.954	173.682	189.697	193.764	395.703	643.237	718.713
47.5	135.389	148.664	151.857	147.629	344.756	622.087	708.808
50.0	126.026	129.464	131.004	132.964	295.059	598.974	696.933
52.5	115.674	121.588	123.125	120.939	251.223	572.681	661.169
55.0	107.113	113.223	113.905	110.695	209.701	511.782	621.390
57.5	99.331	104.093	103.833	100.531	176.050	450.570	554.163
60.0	91.199	94.950	94.864	91.361	144.709	387.298	485.966
62.5	82.944	85.788	86.457	82.198	119.350	324.721	413.210
65.0	73.388	76.855	77.761	73.137	96.406	265.237	341.624
67.5	63.496	68.155	68.951	64.134	78.305	207.977	273.842
70.0	55.139	59.129	59.922	55.414	63.027	156.528	212.871
72.5	46.739	49.918	50.735	46.640	50.716	112.450	162.213
75.0	37.593	40.749	40.782	37.794	40.563	75.009	114.955
77.5	29.255	31.532	31.830	29.102	30.916	49.213	72.645
80.0	21.740	22.746	23.867	20.662	21.351	30.437	41.254
82.5	14.810	17.526	16.825	12.794	13.274	17.478	24.367
85.0	6.693	9.591	9.588	6.705	6.079	7.546	10.638
87.5	3.202	3.773	3.898	2.478	2.395	2.289	2.613
90.0	1.302	0.540	1.179	0.946	0.416	0.575	0.472

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Zone	Lumens	%Lamp	%Fixt
0-20	401.87	N.A.	23.90
0-30	766.98	N.A.	45.50
0-40	1097.37	N.A.	65.10
0-60	1507.15	N.A.	89.50
0-80	1674.71	N.A.	99.40
0-90	1684.66	N.A.	100.00
10-90	1572.95	N.A.	93.40
20-40	695.49	N.A.	41.30
20-50	923.51	N.A.	54.80
40-70	526.01	N.A.	31.20
60-80	167.56	N.A.	9.90
70-80	51.34	N.A.	3.00
80-90	9.95	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	1684.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.71
10-20	290.16
20-30	365.11
30-40	330.38
40-50	228.02
50-60	181.77
60-70	116.22
70-80	51.34
80-90	9.95
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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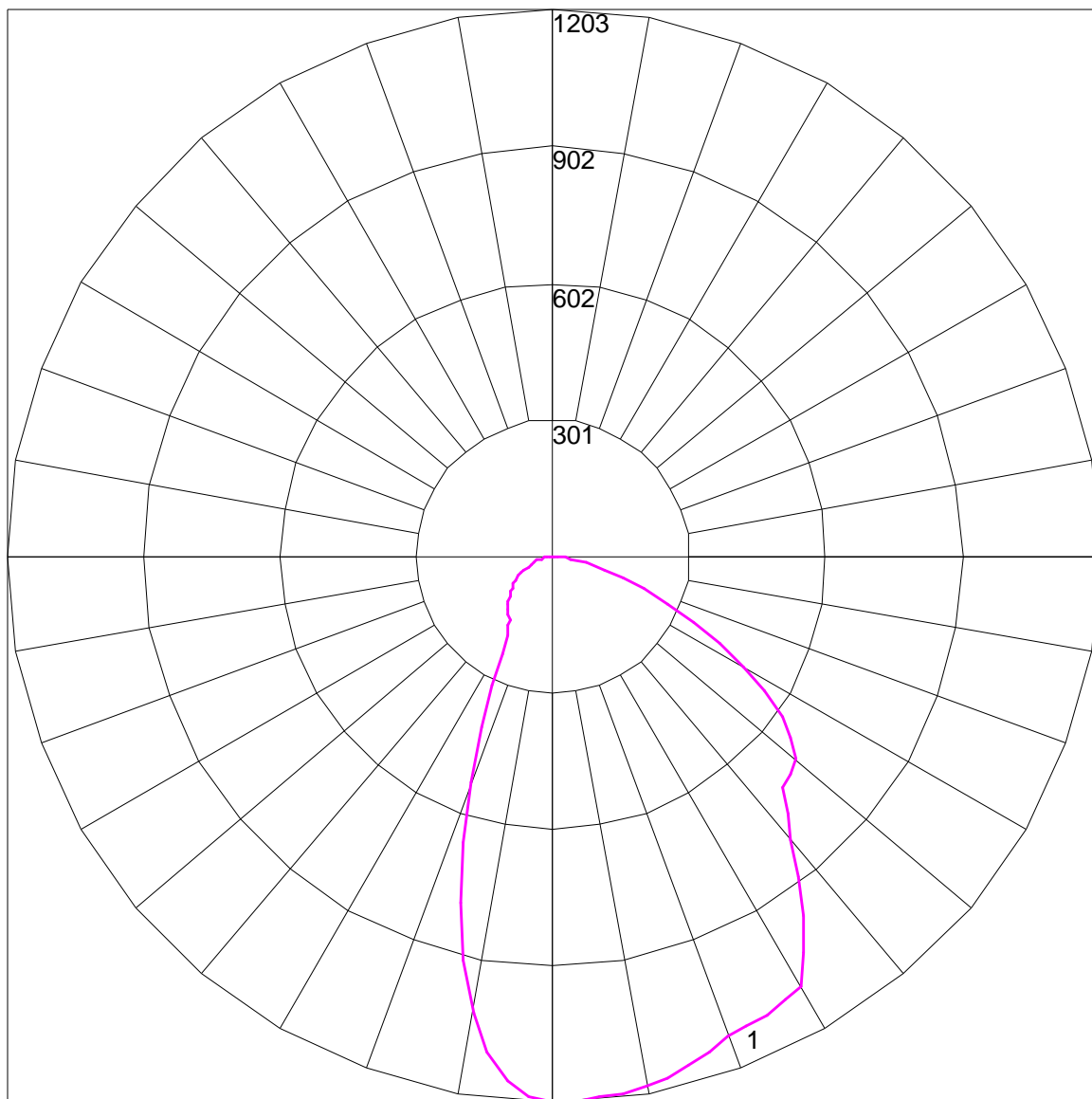
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	82	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	57	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	38	47	41	37	46	41	37	36

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POLAR GRAPH



Maximum Candela = 1203.202 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)