

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00649_4_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 3/16/2018

[UPDATE] 4/30/2018

[LUMCAT] SR2DMO-XT13L-E1-SDD2F-xxK-WD-MW-NL

[LUMINAIRE] Nom. 2" Square Trim Downlight, Wide Beam

[OTHER] Matte White Trim, No Lens

[OTHER] 43.9 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] For New Construction Non-IC Housing: SR2DMO-XT-series

[OTHER] For SDD2F Downlight Trim

[OTHER] LEDXT lumen output is the same for all available CCT's

[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	873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25398	26639	25625
55	19825	18273	18578
65	11690	12045	12406
75	7795	6274	8365
85	6986	6924	6035

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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	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734
2.5	1381.678	1388.960	1379.251	1381.830	1376.222	1360.009	1366.103	1357.617	1367.598	1365.803
5.0	1347.300	1340.025	1333.156	1342.352	1338.434	1307.325	1298.068	1300.770	1313.627	1309.623
7.5	1287.326	1281.689	1261.039	1279.249	1270.023	1228.540	1223.406	1223.510	1249.380	1240.664
10.0	1220.135	1205.551	1183.633	1202.821	1195.855	1145.823	1138.922	1142.928	1177.968	1165.281
12.5	1146.111	1127.691	1102.902	1120.233	1113.983	1058.284	1057.584	1059.739	1096.126	1087.837
15.0	1058.519	1046.962	1026.386	1034.691	1021.711	965.607	980.375	971.547	1008.047	998.971
17.5	959.675	959.493	952.136	939.347	917.262	867.411	900.091	879.924	897.023	907.139
20.0	837.864	862.393	869.094	839.981	794.845	754.365	816.325	771.777	773.932	790.163
22.5	699.400	752.145	782.051	719.387	654.003	627.346	721.616	653.920	634.529	667.924
25.0	561.354	625.718	678.216	591.417	520.073	503.019	616.209	530.146	487.867	536.683
27.5	423.568	500.094	567.742	468.881	392.266	380.878	502.316	403.315	376.971	403.976
30.0	322.672	375.348	449.800	347.890	296.382	288.321	381.051	306.229	279.397	313.734
32.5	242.006	277.384	329.412	267.716	225.233	216.759	281.034	222.135	200.119	228.387
35.0	166.377	204.695	240.178	197.003	157.301	152.205	196.931	154.751	126.680	159.113
37.5	93.092	139.967	159.408	134.655	91.543	91.985	134.656	93.464	86.336	91.122
40.0	63.841	81.723	108.459	73.843	61.316	62.357	86.429	65.268	54.540	67.435
42.5	51.789	53.023	64.081	56.828	51.676	48.869	58.907	47.401	47.055	45.462
45.0	46.576	45.665	48.851	45.699	46.992	43.353	43.138	42.227	44.501	42.760
47.5	43.659	41.098	38.520	42.370	44.832	41.517	36.250	40.251	41.443	40.004
50.0	39.287	38.260	35.270	39.804	39.038	36.543	33.646	35.080	38.305	35.086
52.5	34.518	33.479	32.901	33.734	31.683	30.353	28.862	29.264	32.350	30.140
55.0	29.490	27.652	27.181	27.472	27.635	25.073	23.176	25.161	26.074	24.801
57.5	24.406	23.791	21.179	24.458	24.773	20.084	19.772	21.325	23.196	19.785
60.0	19.938	20.842	18.298	21.487	20.637	17.185	17.166	18.166	20.572	17.722
62.5	15.577	17.213	15.551	17.889	16.111	14.852	14.922	15.081	16.638	15.554
65.0	12.813	13.320	13.201	14.370	13.597	12.054	12.782	12.721	12.682	12.709
67.5	10.245	10.513	10.858	11.853	11.567	9.158	10.906	10.408	9.864	9.992
70.0	8.928	8.001	8.547	9.251	9.224	7.792	9.073	8.055	7.469	7.703
72.5	7.384	6.553	6.312	6.385	7.045	6.375	6.981	6.129	6.826	5.934
75.0	5.232	5.166	4.211	4.935	5.615	4.457	5.192	5.130	5.505	4.725
77.5	3.619	3.851	3.319	4.313	4.032	3.438	3.843	3.723	3.710	3.704
80.0	2.572	2.787	2.525	2.781	2.716	2.553	2.874	2.670	2.560	2.675
82.5	2.122	1.947	1.743	2.424	2.076	1.379	1.836	2.138	1.930	1.990
85.0	1.579	1.458	1.565	1.323	1.364	1.425	1.050	1.317	1.163	1.693
87.5	1.122	1.061	1.281	1.229	1.095	1.157	1.292	1.178	1.192	1.310
90.0	0.763	0.498	0.991	0.354	0.891	1.136	0.678	1.265	0.773	0.867
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734	1391.734
2.5	1367.923	1361.754	1372.528	1385.458	1388.482	1388.697	1381.678
5.0	1310.372	1313.276	1328.090	1349.693	1343.459	1349.968	1347.300
7.5	1243.326	1242.344	1271.510	1290.855	1276.715	1292.569	1287.326
10.0	1166.212	1170.005	1209.090	1219.794	1200.946	1219.431	1220.135
12.5	1092.688	1096.036	1130.950	1143.742	1121.307	1141.005	1146.111
15.0	1022.500	1015.080	1046.446	1065.451	1047.388	1058.681	1058.519
17.5	947.608	926.932	937.045	976.891	975.515	966.236	959.675
20.0	868.945	822.057	818.956	884.333	893.654	867.383	837.864
22.5	774.568	702.322	678.117	768.536	808.802	749.963	699.400
25.0	669.182	576.263	530.785	645.257	703.739	622.181	561.354
27.5	551.177	445.287	411.257	517.306	593.707	497.524	423.568
30.0	425.474	337.460	298.208	388.110	472.378	374.349	322.672
32.5	317.593	245.344	215.434	295.461	348.886	286.045	242.006
35.0	218.984	169.062	138.253	210.694	256.643	211.636	166.377
37.5	148.875	101.989	94.102	142.046	169.121	144.979	93.092
40.0	91.736	67.736	54.425	76.039	116.501	80.980	63.841
42.5	62.150	49.989	47.633	57.608	67.525	58.395	51.789
45.0	43.073	42.575	43.942	44.919	52.028	47.408	46.576
47.5	36.352	39.622	41.050	41.468	38.589	42.812	43.659
50.0	33.522	34.836	38.203	38.763	35.918	39.673	39.287
52.5	28.316	29.390	31.661	32.887	33.530	33.786	34.518
55.0	22.479	24.954	25.099	26.885	27.259	27.404	29.490
57.5	19.715	20.829	21.661	23.419	21.133	23.536	24.406
60.0	17.595	17.619	18.226	19.991	18.383	19.999	19.938
62.5	14.673	14.635	14.843	17.142	15.632	16.346	15.577
65.0	11.619	11.952	11.558	14.287	12.878	12.683	12.813

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	9.387	9.326	9.110	11.380	10.303	10.886	10.245
70.0	7.264	7.886	7.014	8.755	8.568	9.085	8.928
72.5	5.444	6.337	5.871	6.972	6.986	7.008	7.384
75.0	4.083	4.220	4.900	5.284	5.605	5.602	5.232
77.5	3.239	3.046	3.945	3.823	4.008	4.750	3.619
80.0	2.712	2.185	2.519	3.357	2.815	2.761	2.572
82.5	1.784	1.398	2.325	1.721	2.051	2.029	2.122
85.0	1.257	1.596	1.874	1.787	1.578	1.424	1.579
87.5	0.930	1.104	1.189	1.191	1.551	1.115	1.122
90.0	0.624	0.818	0.608	0.439	0.976	0.552	0.763
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	405.27	N.A.	46.40
0-30	671.31	N.A.	76.90
0-40	790.68	N.A.	90.60
0-60	852.39	N.A.	97.70
0-80	870.85	N.A.	99.80
0-90	872.57	N.A.	100.00
10-90	750.50	N.A.	86.00
20-40	385.41	N.A.	44.20
20-50	423.09	N.A.	48.50
40-70	74.69	N.A.	8.60
60-80	18.47	N.A.	2.10
70-80	5.48	N.A.	0.60
80-90	1.72	N.A.	0.20
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	872.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.07
10-20	283.20
20-30	266.04
30-40	119.37
40-50	37.68
50-60	24.03
60-70	12.99
70-80	5.48
80-90	1.72
90-100	0.10
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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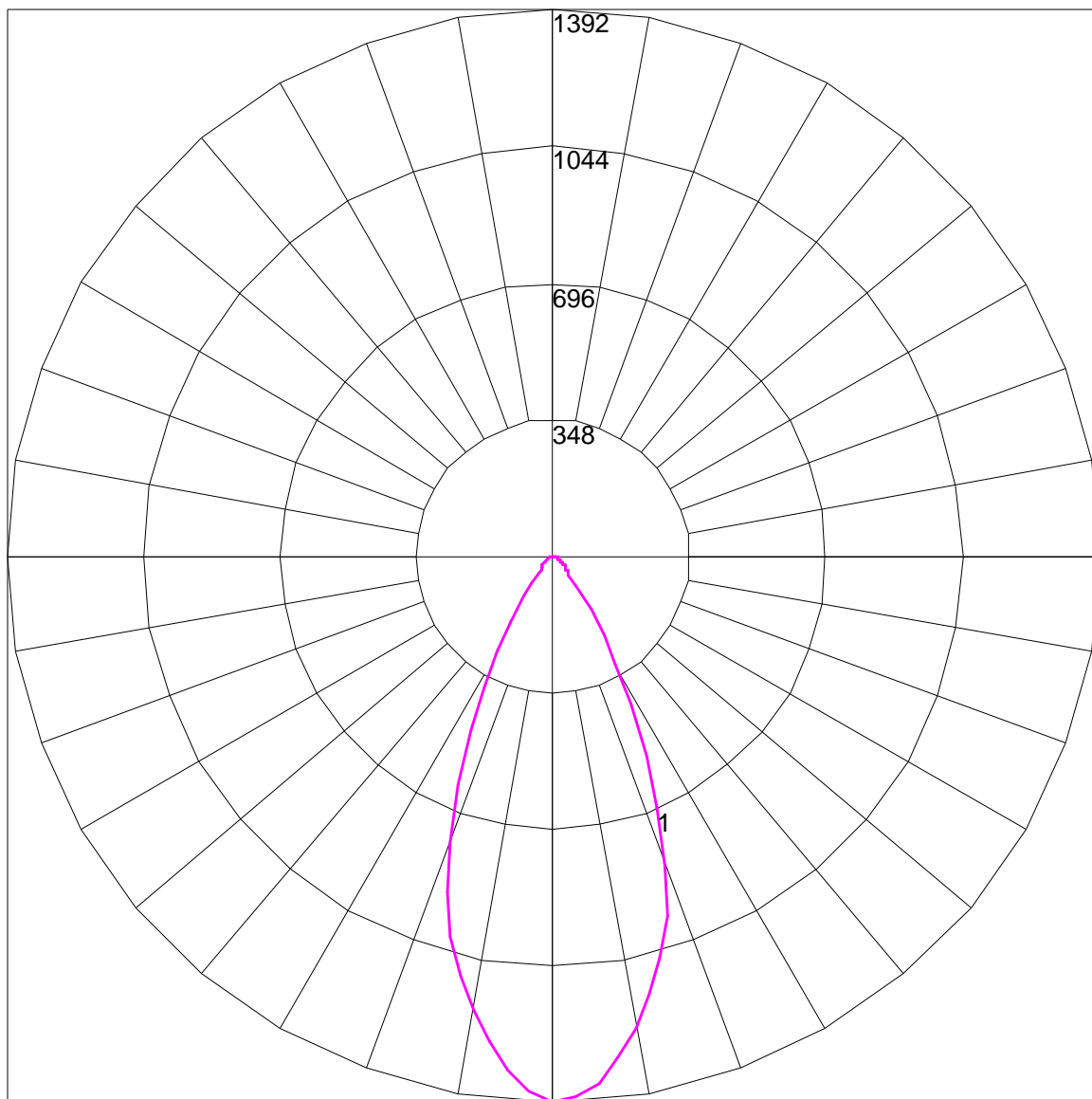
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	75	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	84	75	70	66	74	69	66	73	68	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWNL.IES

POLAR GRAPH



Maximum Candela = 1391.734 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)