

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT13L-E1-RDD2F-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00648_5_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 3/16/2018

[UPDATE] 4/30/2018

[LUMCAT] SR2DMO-XT13L-E1-RDD2F-xxK-WD-MW-SO

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

[OTHER] Matte White Trim, Solite lens

[OTHER] 40.7 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 RDD2F 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	931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 ft (Diameter)
Luminous Width (90-270)	0.15 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT13L-E1-RDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	49714	50503	52379
55	42014	43938	45797
65	33434	35834	37031
75	22111	23047	23359
85	11856	16681	14153

IES INDOOR REPORT

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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	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980
2.5	1580.371	1578.684	1582.782	1585.674	1592.985	1574.758	1584.429	1579.470	1574.079	1574.878
5.0	1523.270	1524.150	1524.700	1523.325	1522.870	1521.550	1519.599	1518.326	1517.941	1520.321
7.5	1442.488	1443.630	1446.893	1447.754	1450.069	1434.584	1439.141	1432.953	1432.259	1432.859
10.0	1332.421	1335.318	1337.886	1336.425	1335.387	1330.707	1328.351	1325.350	1327.816	1328.948
12.5	1213.492	1215.891	1220.108	1219.518	1219.738	1209.465	1208.788	1205.709	1207.591	1209.045
15.0	1083.568	1084.364	1087.975	1087.462	1087.741	1081.638	1079.969	1078.265	1080.108	1082.032
17.5	951.231	951.664	954.931	954.587	955.527	946.926	948.460	946.582	946.316	947.983
20.0	815.847	817.684	820.392	819.440	819.320	813.809	816.233	815.300	815.225	817.004
22.5	683.648	686.605	688.820	686.319	683.656	682.391	683.786	684.245	686.490	689.076
25.0	555.546	558.800	562.217	558.956	558.226	556.679	558.213	559.822	562.170	564.653
27.5	437.451	441.649	444.031	438.901	434.224	437.062	434.741	439.145	441.771	443.826
30.0	332.273	336.563	340.210	339.712	339.792	334.576	337.103	337.935	337.820	338.543
32.5	243.406	248.188	249.708	249.154	246.778	250.986	247.560	247.765	248.735	249.255
35.0	175.979	178.795	182.018	184.315	186.449	182.786	184.539	180.833	179.109	177.594
37.5	123.213	124.437	126.315	127.638	127.380	131.614	130.033	127.547	127.128	124.135
40.0	90.071	87.723	91.544	95.386	97.973	94.646	97.180	93.895	91.140	87.105
42.5	67.094	64.154	66.477	68.951	69.251	73.449	71.309	71.813	69.917	67.599
45.0	57.766	56.063	58.683	60.000	60.863	59.657	59.460	59.367	57.245	55.357
47.5	50.628	50.456	52.105	52.452	52.645	54.358	52.242	52.708	52.610	50.890
50.0	46.532	47.825	47.694	49.312	49.572	49.724	48.710	48.736	48.281	46.774
52.5	42.806	44.370	43.944	45.925	46.492	45.854	46.424	46.409	44.242	43.042
55.0	39.600	39.911	41.413	41.762	43.166	42.487	42.954	43.092	40.695	39.531
57.5	36.122	35.870	38.480	37.708	39.814	39.709	39.082	39.168	37.626	36.267
60.0	32.264	32.344	34.801	34.000	35.322	36.031	34.585	34.961	34.201	32.653
62.5	28.016	28.439	30.453	30.051	30.811	31.281	29.866	30.578	30.428	28.649
65.0	23.219	24.076	24.886	25.340	25.717	26.955	25.433	25.916	25.703	24.482
67.5	18.933	19.683	20.110	20.628	20.860	23.117	21.099	21.081	20.080	20.134
70.0	15.140	15.266	16.374	15.911	17.646	18.830	17.649	16.979	16.236	16.700
72.5	12.173	12.815	12.969	12.859	14.068	14.194	14.382	13.187	13.519	13.933
75.0	9.404	10.347	9.802	10.739	9.935	10.775	11.188	10.362	10.493	10.506
77.5	6.443	6.402	7.261	6.653	7.290	7.814	8.068	7.539	7.450	7.279
80.0	4.710	4.199	4.596	4.340	5.281	5.375	5.277	4.687	4.447	4.739
82.5	2.840	2.491	3.212	3.231	3.552	3.945	3.825	3.527	3.880	2.900
85.0	1.698	1.719	2.389	2.008	2.027	2.580	2.435	2.108	2.502	2.064
87.5	0.902	1.191	1.405	0.799	1.366	1.332	1.409	1.765	1.307	1.288
90.0	0.000	0.000	0.000	0.000	0.000	0.792	1.142	0.732	0.829	1.223
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	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980	1594.980
2.5	1578.071	1584.225	1592.542	1575.907	1589.057	1583.716	1580.371
5.0	1519.820	1521.922	1520.993	1517.750	1523.138	1521.023	1523.270
7.5	1435.254	1439.684	1444.305	1434.376	1446.696	1442.081	1442.488
10.0	1329.284	1331.203	1330.481	1325.468	1331.742	1331.810	1332.421
12.5	1209.220	1212.532	1213.862	1206.574	1213.082	1214.253	1213.492
15.0	1081.382	1082.762	1081.969	1077.534	1080.792	1082.363	1083.568
17.5	948.407	948.505	948.910	946.681	948.503	949.728	951.231
20.0	819.327	818.520	818.418	813.924	816.215	815.599	815.847
22.5	692.869	690.267	688.147	683.367	685.023	683.493	683.648
25.0	567.680	565.492	562.555	555.125	558.078	555.461	555.546
27.5	443.360	442.133	437.370	437.723	436.301	435.760	437.451
30.0	338.081	338.906	336.580	331.770	335.143	333.468	332.273
32.5	245.905	244.207	238.033	243.374	241.285	242.841	243.406
35.0	175.090	175.861	174.388	174.136	177.379	176.682	175.979
37.5	119.246	118.722	114.141	121.813	120.249	121.820	123.213
40.0	84.653	85.988	86.308	88.007	91.068	90.739	90.071
42.5	65.231	63.855	61.662	65.803	65.619	66.498	67.094
45.0	54.726	54.213	55.003	56.530	56.393	57.205	57.766
47.5	50.608	50.110	50.210	50.032	48.447	49.754	50.628
50.0	47.055	47.213	46.762	46.682	46.093	46.344	46.532
52.5	43.919	44.852	43.460	43.363	43.473	42.931	42.806
55.0	40.692	41.359	39.703	40.080	39.684	39.510	39.600
57.5	37.398	37.352	35.895	36.447	35.961	35.909	36.122
60.0	33.066	32.548	31.989	32.410	32.548	31.899	32.264
62.5	27.960	27.375	28.072	28.102	28.866	27.559	28.016
65.0	23.409	23.211	23.345	23.485	24.018	22.507	23.219

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT13L-E1-RDD2F-XXK-WDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	19.263	19.502	18.528	19.419	19.517	18.061	18.933
70.0	15.783	15.859	15.243	15.787	15.861	14.455	15.140
72.5	12.604	12.296	12.151	11.951	12.603	11.764	12.173
75.0	9.944	9.912	9.590	8.440	9.654	9.322	9.404
77.5	7.496	7.428	6.991	5.927	6.829	6.174	6.443
80.0	5.292	4.924	4.806	4.597	4.908	3.900	4.710
82.5	3.057	2.956	3.457	3.127	3.042	2.598	2.840
85.0	2.435	1.797	2.270	1.419	2.056	1.418	1.698
87.5	1.416	0.950	1.139	0.968	1.334	1.073	0.902
90.0	0.855	0.815	1.222	0.000	0.000	0.000	0.000
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	437.87	N.A.	47.00
0-30	693.05	N.A.	74.40
0-40	809.89	N.A.	87.00
0-60	893.52	N.A.	96.00
0-80	928.53	N.A.	99.70
0-90	931.02	N.A.	100.00
10-90	791.72	N.A.	85.00
20-40	372.02	N.A.	40.00
20-50	419.11	N.A.	45.00
40-70	107.97	N.A.	11.60
60-80	35.01	N.A.	3.80
70-80	10.68	N.A.	1.10
80-90	2.48	N.A.	0.30
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	931.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.30
10-20	298.57
20-30	255.18
30-40	116.84
40-50	47.09
50-60	36.54
60-70	24.33
70-80	10.68
80-90	2.48
90-100	0.07
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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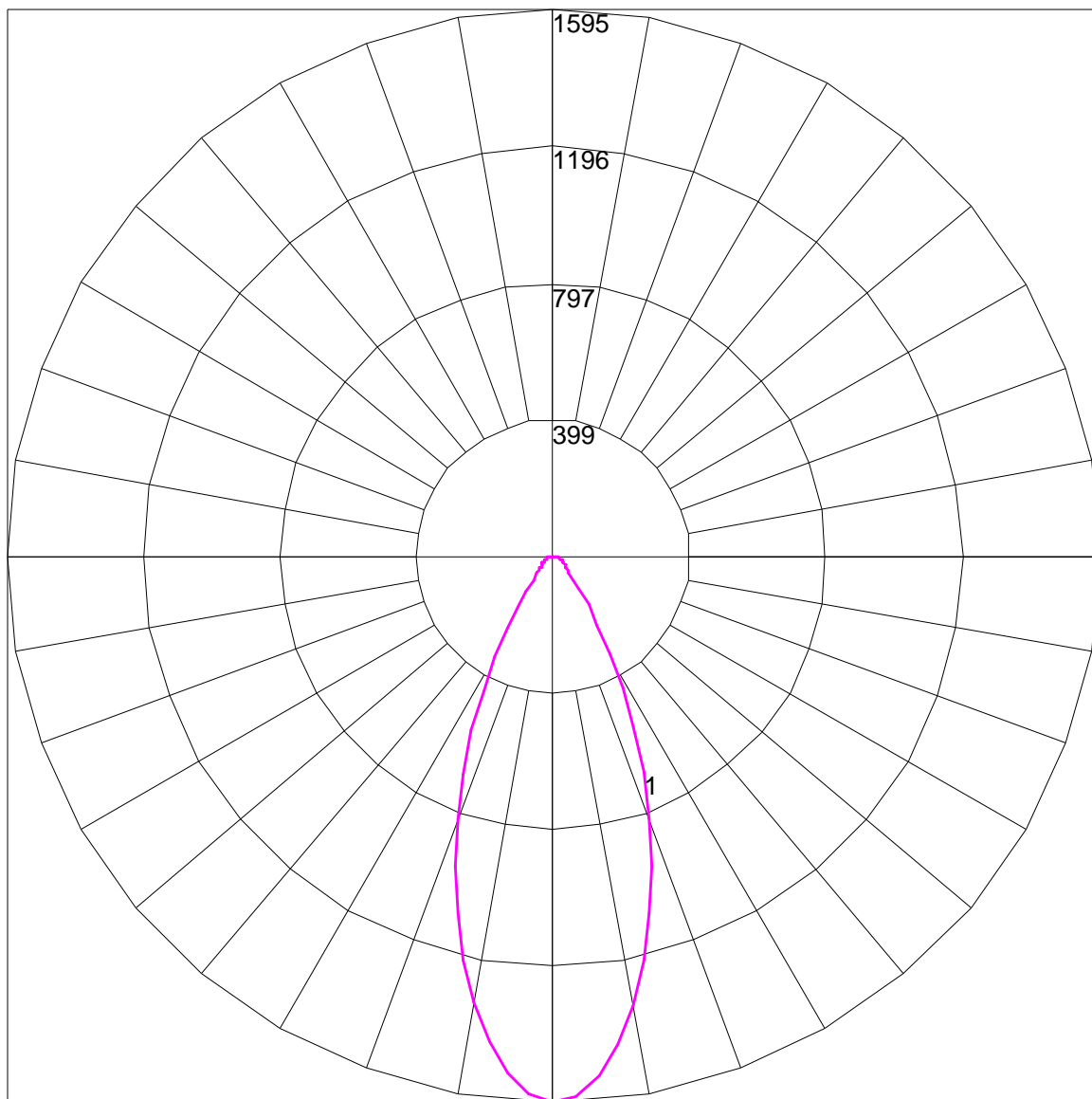
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT13L-E1-RDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 1594.98 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)