

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT13L-E1-RDD2F-XXK-MDMWNL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00648_1_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT13L-E1-RDD2F-xxK-MD-MW-NL
 [LUMINAIRE] Nom. 2" Round Trim Downlight, Medium Beam
 [OTHER] Matte White Trim, No lens
 [OTHER] 31.4 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	1017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
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_1 ~ SR2DMO-XT13L-E1-RDD2F-XXK-MDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26737	27383	27244
55	26703	28056	29338
65	23079	24238	24096
75	15657	14270	10813
85	10117	8532	10990

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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	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607
2.5	2920.223	2916.012	2922.438	2921.975	2911.577	2860.413	2867.279	2853.311	2860.853	2846.745
5.0	2785.134	2801.738	2780.599	2801.304	2770.503	2684.663	2698.382	2654.754	2676.709	2658.158
7.5	2636.978	2652.363	2633.303	2661.427	2622.866	2485.437	2498.607	2449.381	2472.084	2444.688
10.0	2340.762	2375.369	2336.311	2384.934	2328.598	2164.111	2186.564	2110.108	2142.729	2110.657
12.5	2037.178	2076.710	2036.411	2092.573	2031.085	1826.369	1858.565	1769.290	1807.566	1759.862
15.0	1672.349	1712.812	1658.539	1712.554	1642.641	1453.315	1482.519	1409.276	1444.954	1411.076
17.5	1307.877	1361.220	1286.031	1342.862	1259.084	1076.985	1133.309	1055.602	1104.194	1062.486
20.0	1017.117	1041.383	985.298	1018.107	958.976	817.068	853.336	810.164	846.544	822.055
22.5	731.290	757.471	695.707	721.118	669.218	563.913	604.541	570.978	607.640	588.340
25.0	539.597	552.448	506.869	524.385	485.539	396.080	424.207	398.781	428.681	419.448
27.5	352.903	369.491	327.026	344.439	310.073	231.113	267.874	236.425	269.144	252.593
30.0	223.843	228.813	205.741	214.729	195.449	147.340	157.529	146.971	161.635	159.511
32.5	105.309	122.076	98.736	110.035	93.504	66.408	79.064	68.197	79.049	69.335
35.0	69.070	71.546	64.960	68.395	63.994	49.820	53.394	50.433	54.109	51.281
37.5	37.582	39.944	37.435	38.780	39.170	34.308	36.711	35.247	36.420	34.432
40.0	34.469	35.972	35.420	35.427	35.324	32.599	33.148	31.607	33.098	33.043
42.5	31.780	33.431	33.485	33.316	32.193	31.064	30.980	28.776	30.931	31.662
45.0	31.068	32.710	31.818	33.575	31.657	31.001	30.588	28.879	30.768	30.360
47.5	30.274	31.588	30.436	32.863	31.036	30.662	29.795	28.788	30.282	29.033
50.0	29.169	30.021	29.862	30.553	30.152	28.619	28.551	28.101	29.309	27.540
52.5	27.716	28.351	28.777	28.718	29.109	26.551	27.258	27.165	27.756	26.083
55.0	25.169	26.579	26.444	27.564	27.652	24.355	25.920	25.590	25.431	24.807
57.5	23.002	24.465	24.135	25.821	25.799	22.270	23.838	23.737	22.979	23.295
60.0	21.859	22.051	21.877	23.332	23.060	20.611	21.105	21.262	20.383	20.827
62.5	19.889	19.755	19.481	20.238	20.104	18.514	18.145	18.552	17.439	17.985
65.0	16.028	17.550	16.833	16.475	16.734	14.975	15.010	15.390	14.141	13.887
67.5	12.824	14.747	14.110	14.080	13.548	11.859	12.298	12.149	11.160	10.308
70.0	10.700	11.595	11.285	12.843	10.622	9.663	9.836	8.796	8.429	7.886
72.5	8.656	8.617	8.611	9.175	7.598	7.771	7.830	6.710	6.988	6.374
75.0	6.659	5.972	6.069	5.240	4.599	6.137	5.884	5.340	5.890	5.643
77.5	4.170	4.418	4.426	4.646	3.540	4.477	3.809	3.782	4.488	3.956
80.0	3.166	3.609	3.084	3.251	3.190	3.069	2.341	2.614	3.180	2.719
82.5	2.593	2.545	1.966	1.997	2.583	2.030	1.848	1.908	1.999	1.877
85.0	1.449	1.454	1.222	1.509	1.574	1.453	1.615	1.356	1.253	1.268
87.5	1.046	1.225	0.942	1.253	1.260	1.071	1.253	1.234	1.137	1.042
90.0	0.568	0.509	0.655	0.384	0.619	0.818	0.649	0.851	0.409	0.768
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	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607	2900.607
2.5	2875.205	2866.023	2881.773	2913.932	2911.310	2926.529	2920.223
5.0	2695.403	2678.389	2712.732	2796.796	2778.398	2803.430	2785.134
7.5	2501.958	2481.071	2528.080	2646.261	2620.336	2663.550	2636.978
10.0	2172.652	2144.041	2211.032	2371.697	2332.349	2381.356	2340.762
12.5	1839.659	1803.225	1888.483	2076.626	2026.894	2088.315	2037.178
15.0	1480.814	1450.771	1530.829	1718.616	1669.755	1726.076	1672.349
17.5	1137.619	1102.291	1187.792	1372.882	1307.598	1372.968	1307.877
20.0	879.833	855.689	916.592	1059.395	1019.975	1064.732	1017.117
22.5	636.704	613.946	662.302	779.424	736.682	777.696	731.290
25.0	456.689	439.249	476.023	574.285	542.976	575.927	539.597
27.5	291.521	271.866	305.522	388.811	352.127	387.537	352.903
30.0	179.464	169.471	187.047	241.617	226.386	243.269	223.843
32.5	88.222	77.436	91.220	129.561	104.194	124.496	105.309
35.0	58.748	54.001	58.953	76.582	70.086	77.271	69.070
37.5	36.887	34.347	35.382	42.352	38.180	42.240	37.582
40.0	34.406	33.865	32.464	35.896	34.530	36.168	34.469
42.5	32.179	33.045	30.134	31.652	31.067	31.472	31.780
45.0	30.499	30.831	29.021	30.261	29.258	29.617	31.068
47.5	28.674	28.744	28.008	28.520	27.689	28.274	30.274
50.0	26.573	27.083	27.176	26.380	27.648	27.842	29.169
52.5	25.108	25.514	25.824	25.345	27.299	26.976	27.716
55.0	24.685	24.206	23.662	25.415	25.393	25.431	25.169
57.5	23.407	22.339	21.675	24.199	23.428	23.735	23.002
60.0	20.896	19.116	19.927	21.859	21.227	21.834	21.859
62.5	17.796	16.345	17.380	19.222	18.761	19.334	19.889
65.0	13.955	14.520	13.883	16.354	15.404	16.123	16.028

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT13L-E1-RDD2F-XXK-MDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	11.099	12.277	11.011	13.380	12.315	13.263	12.824
70.0	9.184	9.400	8.707	10.343	9.820	10.724	10.700
72.5	7.136	6.536	6.349	7.693	7.387	8.069	8.656
75.0	5.175	3.739	4.234	5.407	5.006	5.566	6.659
77.5	4.253	3.021	3.929	4.168	3.395	4.395	4.170
80.0	3.115	2.543	2.838	2.878	2.485	2.914	3.166
82.5	2.075	2.018	1.761	1.949	2.100	1.973	2.593
85.0	1.264	1.300	1.273	1.430	1.479	1.345	1.449
87.5	1.202	1.591	1.023	1.151	0.661	1.172	1.046
90.0	0.701	0.959	0.588	0.590	0.833	0.573	0.568
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	675.74	N.A.	66.50
0-30	900.44	N.A.	88.60
0-40	946.98	N.A.	93.10
0-60	993.44	N.A.	97.70
0-80	1015.02	N.A.	99.80
0-90	1016.77	N.A.	100.00
10-90	769.47	N.A.	75.70
20-40	271.24	N.A.	26.70
20-50	295.08	N.A.	29.00
40-70	61.85	N.A.	6.10
60-80	21.58	N.A.	2.10
70-80	6.19	N.A.	0.60
80-90	1.74	N.A.	0.20
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1016.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.29
10-20	428.45
20-30	224.71
30-40	46.53
40-50	23.84
50-60	22.62
60-70	15.39
70-80	6.19
80-90	1.74
90-100	0.09
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

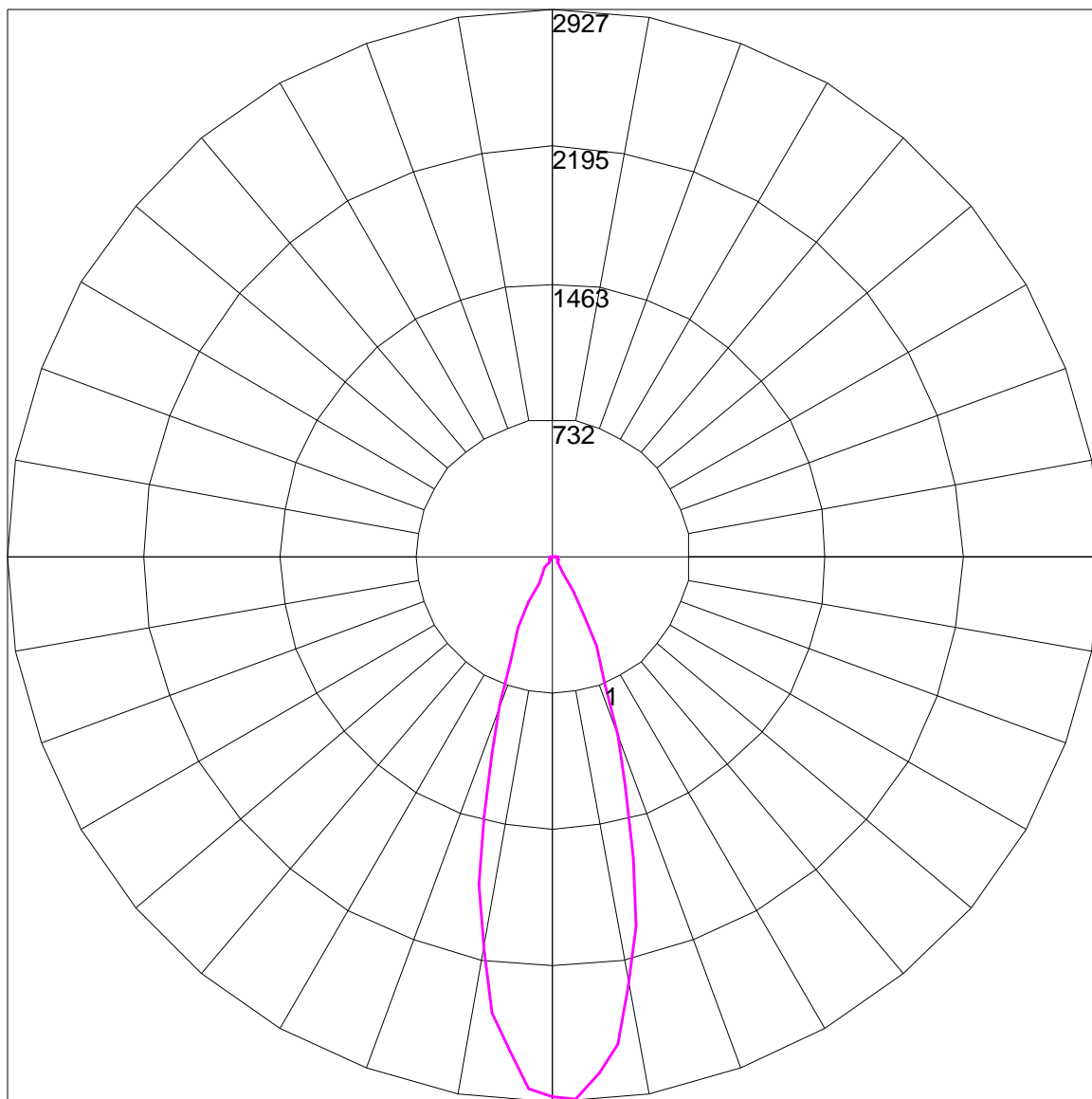
Effective Floor Cavity Reflectance 0.20

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	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	109	105	102	99	107	104	100	98	100	98	95	97	95	93	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	95	90	86	99	94	89	86	92	88	85	90	86	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69
9	84	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	71	68	66	65

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT13L-E1-RDD2F-XXK-MDMWNL.IES

POLAR GRAPH



Maximum Candela = 2926.529 Located At Horizontal Angle = 337.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)