

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_1_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT10L-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	755
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	11.1
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19847	20327	20223
55	19822	20827	21778
65	17131	17992	17885
75	11622	10592	8027
85	7513	6333	8162

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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	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143
2.5	2167.704	2164.578	2169.348	2169.005	2161.286	2123.306	2128.403	2118.035	2123.633	2113.161
5.0	2067.427	2079.752	2064.060	2079.430	2056.566	1992.846	2003.030	1970.644	1986.942	1973.171
7.5	1957.449	1968.870	1954.721	1975.598	1946.974	1844.959	1854.735	1818.195	1835.047	1814.710
10.0	1737.565	1763.255	1734.262	1770.355	1728.536	1606.436	1623.103	1566.349	1590.564	1566.757
12.5	1512.213	1541.558	1511.644	1553.333	1507.690	1355.728	1379.627	1313.358	1341.770	1306.359
15.0	1241.398	1271.433	1231.146	1271.242	1219.345	1078.807	1100.485	1046.116	1072.600	1047.453
17.5	970.847	1010.444	954.631	996.817	934.628	799.454	841.264	783.581	819.652	788.692
20.0	755.014	773.026	731.394	755.748	711.855	606.516	633.438	601.391	628.396	610.218
22.5	542.842	562.277	516.429	535.292	496.766	418.597	448.755	423.841	451.056	436.729
25.0	400.547	410.086	376.253	389.255	360.419	294.013	314.892	296.018	318.214	311.360
27.5	261.963	274.276	242.754	255.680	230.169	171.557	198.845	175.500	199.788	187.502
30.0	166.160	169.850	152.723	159.395	145.083	109.372	116.935	109.098	119.983	118.406
32.5	78.172	90.618	73.293	81.680	69.409	49.295	58.690	50.623	58.679	51.468
35.0	51.271	53.109	48.221	50.770	47.504	36.982	39.635	37.437	40.166	38.066
37.5	27.898	29.651	27.788	28.786	29.076	25.467	27.251	26.164	27.035	25.559
40.0	25.586	26.702	26.293	26.298	26.221	24.198	24.606	23.462	24.569	24.528
42.5	23.591	24.816	24.856	24.731	23.897	23.059	22.997	21.361	22.960	23.503
45.0	23.062	24.281	23.619	24.923	23.499	23.012	22.706	21.437	22.839	22.537
47.5	22.473	23.448	22.593	24.395	23.038	22.760	22.117	21.370	22.478	21.551
50.0	21.652	22.285	22.167	22.679	22.382	21.244	21.193	20.859	21.756	20.443
52.5	20.574	21.045	21.361	21.317	21.608	19.709	20.234	20.165	20.604	19.361
55.0	18.683	19.730	19.630	20.461	20.527	18.079	19.241	18.996	18.877	18.415
57.5	17.075	18.160	17.916	19.167	19.151	16.531	17.695	17.620	17.058	17.292
60.0	16.226	16.368	16.240	17.320	17.118	15.300	15.667	15.783	15.130	15.460
62.5	14.764	14.665	14.461	15.023	14.923	13.743	13.469	13.772	12.945	13.351
65.0	11.897	13.027	12.495	12.229	12.421	11.116	11.142	11.424	10.497	10.308
67.5	9.520	10.946	10.474	10.451	10.057	8.803	9.129	9.018	8.285	7.652
70.0	7.943	8.607	8.377	9.534	7.885	7.173	7.301	6.530	6.257	5.854
72.5	6.425	6.397	6.392	6.810	5.640	5.768	5.812	4.981	5.187	4.731
75.0	4.943	4.433	4.505	3.890	3.414	4.555	4.368	3.964	4.372	4.189
77.5	3.096	3.280	3.286	3.449	2.628	3.323	2.827	2.807	3.332	2.936
80.0	2.350	2.679	2.289	2.413	2.368	2.278	1.737	1.941	2.361	2.018
82.5	1.925	1.889	1.460	1.482	1.917	1.507	1.372	1.416	1.484	1.393
85.0	1.076	1.079	0.907	1.120	1.169	1.079	1.199	1.006	0.930	0.941
87.5	0.776	0.910	0.700	0.930	0.936	0.795	0.930	0.916	0.844	0.773
90.0	0.422	0.378	0.486	0.285	0.460	0.607	0.482	0.632	0.304	0.570
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	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143	2153.143
2.5	2134.287	2127.471	2139.162	2163.034	2161.088	2172.385	2167.704
5.0	2000.818	1988.189	2013.682	2076.083	2062.426	2081.007	2067.427
7.5	1857.223	1841.718	1876.613	1964.340	1945.095	1977.173	1957.449
10.0	1612.776	1591.538	1641.266	1760.529	1731.321	1767.699	1737.565
12.5	1365.593	1338.548	1401.835	1541.496	1504.579	1550.172	1512.213
15.0	1099.219	1076.919	1136.346	1275.742	1239.472	1281.279	1241.398
17.5	844.463	818.239	881.707	1019.101	970.640	1019.164	970.847
20.0	653.107	635.185	680.393	786.397	757.135	790.359	755.014
22.5	472.630	455.737	491.632	578.572	546.845	577.290	542.842
25.0	339.004	326.058	353.355	426.296	403.055	427.515	400.547
27.5	216.398	201.808	226.791	288.617	261.387	287.672	261.963
30.0	133.217	125.800	138.846	179.354	168.048	180.580	166.160
32.5	65.488	57.481	67.714	96.174	77.344	92.415	78.172
35.0	43.609	40.085	43.761	56.848	52.026	57.359	51.271
37.5	27.382	25.496	26.264	31.438	28.342	31.355	27.898
40.0	25.540	25.138	24.098	26.646	25.632	26.848	25.586
42.5	23.887	24.530	22.369	23.495	23.062	23.362	23.591
45.0	22.640	22.886	21.542	22.463	21.718	21.985	23.062
47.5	21.285	21.337	20.791	21.171	20.554	20.988	22.473
50.0	19.725	20.104	20.173	19.582	20.524	20.667	21.652
52.5	18.638	18.940	19.170	18.814	20.264	20.024	20.574
55.0	18.324	17.968	17.564	18.866	18.849	18.878	18.683
57.5	17.375	16.582	16.089	17.963	17.391	17.619	17.075
60.0	15.511	14.190	14.792	16.226	15.757	16.208	16.226
62.5	13.210	12.133	12.901	14.268	13.926	14.352	14.764
65.0	10.359	10.779	10.305	12.140	11.434	11.968	11.897

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	8.239	9.113	8.174	9.932	9.141	9.845	9.520
70.0	6.817	6.977	6.463	7.678	7.290	7.961	7.943
72.5	5.297	4.852	4.713	5.711	5.484	5.990	6.425
75.0	3.841	2.775	3.143	4.013	3.716	4.132	4.943
77.5	3.157	2.243	2.916	3.094	2.520	3.263	3.096
80.0	2.312	1.888	2.107	2.137	1.845	2.163	2.350
82.5	1.541	1.498	1.307	1.447	1.559	1.465	1.925
85.0	0.938	0.965	0.945	1.061	1.098	0.998	1.076
87.5	0.893	1.181	0.759	0.855	0.491	0.870	0.776
90.0	0.520	0.712	0.437	0.438	0.619	0.426	0.422
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	501.60	N.A.	66.50
0-30	668.40	N.A.	88.60
0-40	702.95	N.A.	93.10
0-60	737.44	N.A.	97.70
0-80	753.46	N.A.	99.80
0-90	754.75	N.A.	100.00
10-90	571.19	N.A.	75.70
20-40	201.34	N.A.	26.70
20-50	219.04	N.A.	29.00
40-70	45.91	N.A.	6.10
60-80	16.02	N.A.	2.10
70-80	4.60	N.A.	0.60
80-90	1.29	N.A.	0.20
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	754.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.57
10-20	318.04
20-30	166.80
30-40	34.54
40-50	17.70
50-60	16.79
60-70	11.43
70-80	4.60
80-90	1.29
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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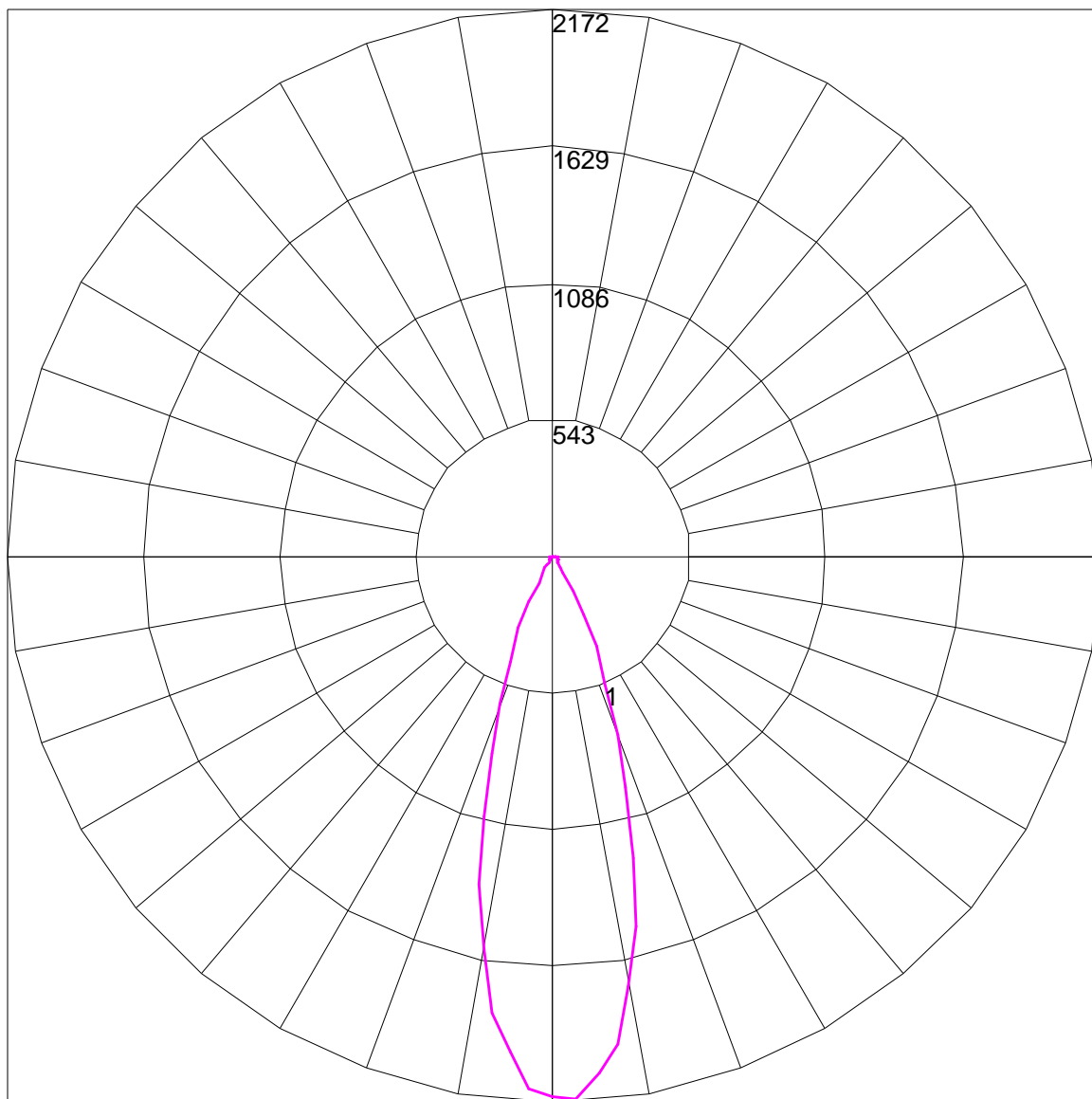
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	109	105	102	99	107	103	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	91	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	64

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_1 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWNL.IES

POLAR GRAPH



Maximum Candela = 2172.385 Located At Horizontal Angle = 337.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)