

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

IESNA:LM-63-2002
[TEST] SP-00648_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT13L-E1-RDD2F-xxK-MD-MW-GL
[LUMINAIRE] Nom. 2" Round Trim Downlight, Medium Beam
[OTHER] Matte White Trim, Clear Glass lens
[OTHER] 31.8 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	930
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)	0.54
Spacing Criterion (90-270)	0.54
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 ~ SR2DMO-XT13L-E1-RDD2F-XXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27865	28185	28944
55	24011	28398	29381
65	18175	20801	20437
75	11789	11288	12485
85	8965	12561	14258

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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	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987
2.5	2614.546	2649.391	2630.853	2640.031	2637.033	2627.090	2598.303	2645.917	2609.855	2646.110
5.0	2516.811	2510.327	2518.422	2511.219	2519.481	2511.979	2510.429	2510.436	2505.322	2511.091
7.5	2328.215	2357.536	2348.425	2356.676	2358.999	2343.263	2314.064	2364.359	2316.902	2359.222
10.0	2080.237	2072.976	2082.578	2081.396	2094.842	2089.002	2088.313	2085.798	2074.448	2074.526
12.5	1778.041	1776.395	1785.645	1781.243	1803.416	1784.284	1767.862	1797.617	1757.482	1782.897
15.0	1442.371	1440.644	1439.032	1441.469	1449.111	1454.085	1446.750	1457.227	1438.176	1441.475
17.5	1133.458	1101.766	1118.671	1093.864	1118.928	1109.468	1123.570	1113.620	1115.815	1111.460
20.0	840.663	842.360	838.599	833.323	841.902	837.710	829.496	859.150	838.650	856.537
22.5	610.635	588.415	599.230	588.327	598.516	605.478	619.952	609.213	619.087	612.932
25.0	416.285	417.038	419.864	416.998	426.030	424.510	426.854	436.732	430.123	437.980
27.5	268.779	250.433	269.721	258.235	275.041	270.191	280.097	267.372	278.080	274.145
30.0	147.237	159.723	160.973	164.687	167.415	168.137	157.798	173.681	165.020	172.721
32.5	84.446	72.587	86.380	81.073	87.424	92.106	99.839	82.257	97.909	83.780
35.0	52.341	54.755	58.282	57.069	60.817	58.053	55.383	61.422	56.326	59.964
37.5	39.112	39.459	41.125	41.688	41.817	44.006	45.438	41.986	43.241	39.549
40.0	35.491	37.699	38.287	37.948	36.899	37.953	37.628	38.033	35.404	35.678
42.5	33.536	36.295	35.492	35.690	33.721	35.542	34.928	34.234	33.294	32.352
45.0	32.378	33.439	32.750	33.842	33.632	33.894	32.452	32.654	31.561	31.510
47.5	30.608	30.558	30.827	32.043	33.086	32.579	30.499	31.076	30.218	30.659
50.0	28.553	28.241	29.895	30.425	31.762	30.245	28.720	29.659	28.759	29.771
52.5	25.754	25.932	28.564	28.827	30.047	27.487	27.321	28.231	27.182	28.613
55.0	22.631	25.002	26.766	25.989	27.693	25.598	25.866	26.220	25.658	26.369
57.5	20.457	24.027	24.114	23.031	25.140	24.054	24.289	24.216	24.185	23.965
60.0	18.687	20.177	20.506	21.395	22.277	21.707	21.910	22.494	21.217	20.962
62.5	15.837	16.403	17.290	19.863	18.708	19.056	17.937	20.567	16.858	17.971
65.0	12.622	13.363	14.446	15.188	14.193	16.050	14.464	15.510	13.526	15.022
67.5	10.141	10.561	11.918	11.085	11.224	12.938	11.742	11.029	10.928	12.053
70.0	7.949	8.273	9.541	9.127	9.367	9.947	9.184	8.821	9.235	9.051
72.5	6.454	6.582	6.748	7.112	7.171	7.058	6.731	7.317	7.631	7.090
75.0	5.014	4.971	4.801	5.153	5.310	4.428	4.282	6.506	5.049	5.513
77.5	3.740	2.827	3.878	3.830	4.083	3.074	3.310	4.523	3.740	3.399
80.0	2.722	2.885	3.772	2.913	3.528	2.722	3.394	3.046	3.105	2.436
82.5	1.834	1.787	2.079	1.760	2.208	2.777	2.281	2.110	2.549	2.091
85.0	1.284	1.180	1.799	1.674	2.042	1.452	1.601	1.779	1.981	1.886
87.5	1.075	1.303	1.325	1.106	1.135	1.101	0.840	1.465	0.811	1.010
90.0	0.000	0.000	0.000	0.000	1.127	0.531	0.878	1.099	1.212	1.119
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	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987	2654.987
2.5	2628.242	2641.796	2633.597	2625.545	2597.827	2651.099	2614.546
5.0	2505.218	2508.713	2502.760	2506.541	2509.022	2511.249	2516.811
7.5	2328.991	2345.641	2330.719	2332.169	2307.569	2357.937	2328.215
10.0	2064.763	2065.298	2061.785	2074.738	2077.249	2078.826	2080.237
12.5	1753.925	1773.376	1758.123	1785.592	1769.986	1793.434	1778.041
15.0	1432.942	1437.750	1439.343	1450.739	1443.703	1455.246	1442.371
17.5	1106.812	1119.013	1115.410	1139.999	1137.808	1125.210	1133.458
20.0	845.983	859.135	854.175	862.656	836.530	857.310	840.663
22.5	616.876	617.167	613.235	620.654	613.939	600.271	610.635
25.0	433.612	435.585	428.332	425.703	408.490	418.821	416.285
27.5	271.654	272.438	260.630	267.262	266.308	249.367	268.779
30.0	167.907	166.953	162.085	155.553	136.661	156.589	147.237
32.5	90.027	81.465	83.643	82.363	86.069	74.448	84.446
35.0	56.933	56.597	54.660	56.584	50.487	55.058	52.341
37.5	42.850	37.970	39.268	40.741	40.466	38.176	39.112
40.0	36.934	36.962	35.658	36.660	34.818	34.998	35.491
42.5	34.326	35.660	35.102	33.478	31.237	32.016	33.536
45.0	32.649	33.548	33.292	31.319	27.994	30.026	32.378
47.5	31.331	31.351	31.177	29.398	27.423	28.268	30.608
50.0	29.372	28.933	28.484	27.734	27.241	27.613	28.553
52.5	27.178	26.570	25.659	26.134	25.258	26.593	25.754
55.0	25.432	24.342	24.377	24.602	23.028	23.947	22.631
57.5	23.842	21.814	23.427	21.904	20.576	21.212	20.457
60.0	21.161	18.583	19.791	18.041	18.099	18.113	18.687
62.5	18.125	15.639	15.621	14.731	15.211	15.140	15.837
65.0	14.321	13.273	12.003	11.860	12.301	12.506	12.622

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

67.5	10.380	10.674	8.729	9.355	9.509	9.918	10.141
70.0	8.744	7.824	7.758	6.985	6.988	7.376	7.949
72.5	6.609	6.306	6.062	4.738	4.880	6.905	6.454
75.0	3.648	5.166	3.609	3.626	4.502	5.711	5.014
77.5	2.558	4.087	3.125	3.255	3.715	3.298	3.740
80.0	2.595	2.794	2.373	2.840	2.406	1.756	2.722
82.5	2.518	2.209	1.758	1.406	1.428	1.884	1.834
85.0	1.340	1.381	1.323	1.192	1.184	1.063	1.284
87.5	0.710	1.084	0.697	1.056	0.936	0.851	1.075
90.0	1.137	1.192	0.000	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	619.29	N.A.	66.60
0-30	818.86	N.A.	88.00
0-40	861.80	N.A.	92.60
0-60	909.32	N.A.	97.70
0-80	928.61	N.A.	99.80
0-90	930.32	N.A.	100.00
10-90	703.91	N.A.	75.70
20-40	242.51	N.A.	26.10
20-50	267.61	N.A.	28.80
40-70	61.38	N.A.	6.60
60-80	19.29	N.A.	2.10
70-80	5.43	N.A.	0.60
80-90	1.70	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	930.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	226.41
10-20	392.89
20-30	199.57
30-40	42.94
40-50	25.11
50-60	22.42
60-70	13.86
70-80	5.43
80-90	1.70
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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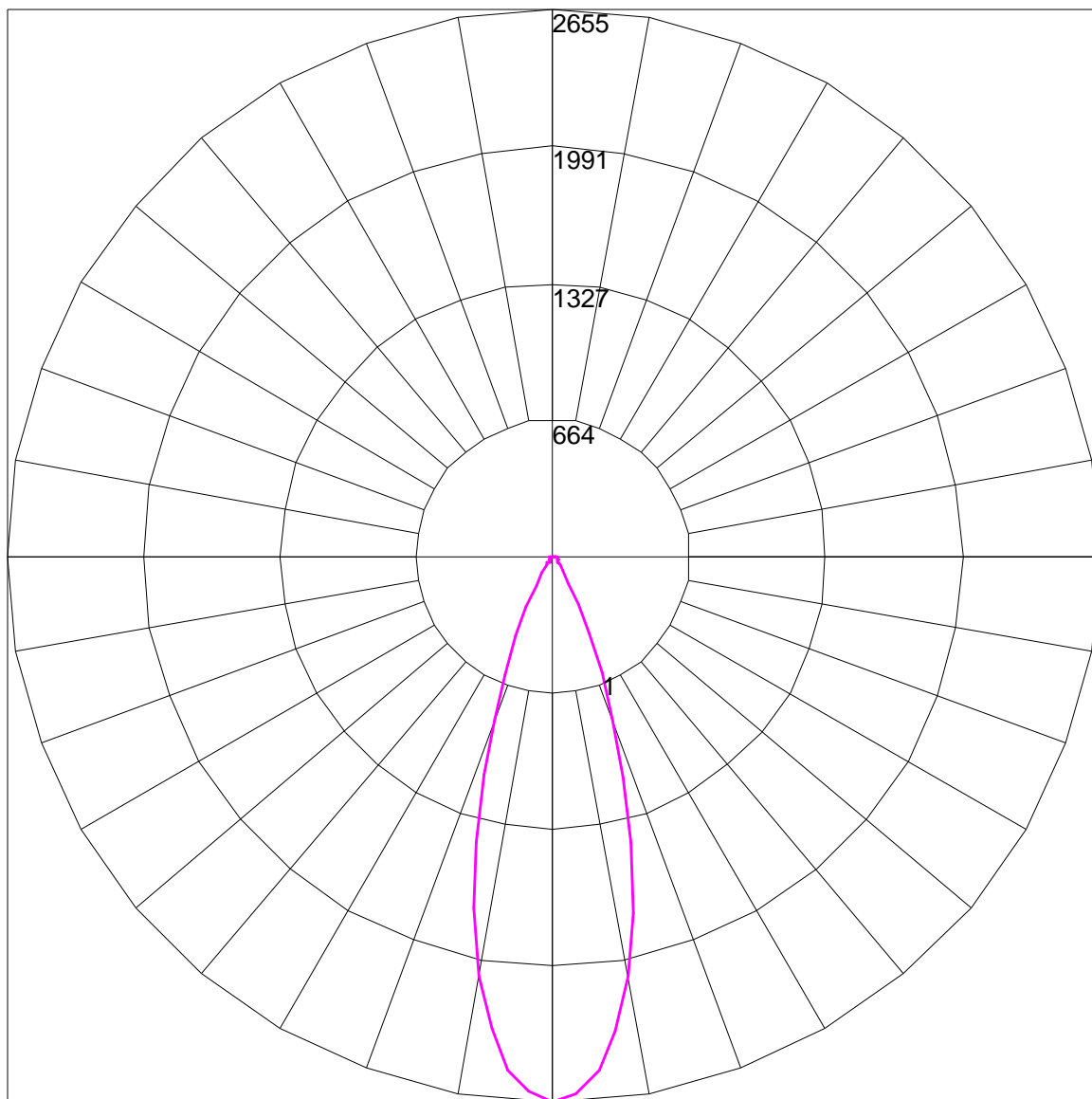
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	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	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	78	76	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	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	83	76	72	68	75	71	68	74	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64

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

POLAR GRAPH



Maximum Candela = 2654.987 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)