

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_7 ~ SR2DMO-XT13L-E1-SDD2F-XXK-XNMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00649_7_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 3/16/2018

[UPDATE] 4/30/2018

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

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

[OTHER] Matte White Trim, No lens

[OTHER] 18.5 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	882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	20.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.34
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_7 ~ SR2DMO-XT13L-E1-SDD2F-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	34478	39970	33163
55	28290	28890	31430
65	14901	15949	16089
75	7430	8356	10411
85	7242	8388	6707

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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	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843
2.5	3127.249	3385.620	3170.657	3373.489	3111.768	3345.955	3051.581	3349.832	3177.988	3367.756
5.0	2553.116	2706.033	2560.072	2681.727	2506.547	2780.467	2674.331	2811.269	2783.067	2720.445
7.5	2023.261	2041.162	1948.232	1927.628	1935.471	2015.045	1957.803	2089.715	2114.149	2029.782
10.0	1518.559	1533.603	1335.323	1473.713	1383.815	1489.987	1233.471	1548.304	1554.565	1547.289
12.5	1155.352	1057.504	976.386	1044.656	1049.651	1056.919	987.651	1070.386	1165.098	1077.277
15.0	869.214	880.411	821.856	878.519	832.097	851.744	748.051	858.113	873.698	892.332
17.5	714.556	717.631	729.774	731.209	705.453	728.004	707.589	736.677	728.846	721.420
20.0	628.527	677.033	686.788	675.322	626.319	663.126	667.720	676.913	619.362	670.509
22.5	511.456	629.028	638.221	624.977	515.822	618.659	621.502	636.761	560.657	624.242
25.0	378.865	523.732	585.501	493.626	389.897	511.627	575.322	547.101	456.453	503.188
27.5	252.522	411.850	524.585	358.234	260.651	384.405	531.467	442.190	289.473	380.009
30.0	129.169	253.508	457.714	227.412	129.814	254.504	485.095	299.394	168.923	241.539
32.5	79.334	112.800	337.195	96.769	76.878	123.764	343.628	145.788	109.953	102.790
35.0	63.150	86.231	179.808	76.428	59.007	80.220	204.528	93.279	71.624	82.243
37.5	56.435	62.873	97.718	59.287	50.282	61.940	129.840	68.653	59.615	62.708
40.0	53.862	58.678	66.147	53.637	45.564	55.213	58.680	62.351	55.187	61.406
42.5	57.291	56.443	61.262	48.205	51.087	51.722	62.223	60.705	60.053	60.185
45.0	63.227	65.039	73.297	60.103	60.814	60.111	65.863	65.736	64.455	66.262
47.5	65.397	71.252	74.873	72.143	67.718	71.568	71.203	72.404	68.310	72.086
50.0	66.065	65.210	69.978	66.078	73.494	68.142	75.180	67.644	67.426	65.906
52.5	56.096	57.923	58.422	59.944	63.134	61.006	59.359	60.318	61.166	59.539
55.0	42.082	44.671	42.975	47.252	46.753	50.201	44.102	48.781	52.126	47.183
57.5	32.622	32.902	32.938	34.711	36.614	38.558	35.897	36.336	40.054	35.092
60.0	24.809	27.739	25.982	28.887	28.737	31.368	27.984	30.703	31.007	29.333
62.5	20.126	22.764	21.221	23.207	22.890	25.157	23.153	26.408	25.132	23.661
65.0	16.332	18.335	17.480	18.904	17.634	20.652	18.641	21.458	19.853	19.038
67.5	13.269	14.081	13.679	15.095	14.403	16.438	15.748	16.466	15.069	14.756
70.0	10.359	10.033	10.117	12.390	11.443	13.495	12.842	14.258	12.455	11.610
72.5	7.741	7.890	7.777	10.393	8.802	10.507	9.916	11.379	10.573	8.847
75.0	4.987	6.267	5.609	8.411	6.988	7.426	7.021	7.143	8.367	6.419
77.5	2.893	4.876	4.029	5.375	5.396	5.744	4.722	5.492	6.456	4.714
80.0	2.133	3.229	3.478	3.538	3.637	4.571	3.643	4.267	4.571	3.813
82.5	2.151	2.744	2.287	2.315	2.258	3.452	2.341	2.986	2.554	3.091
85.0	1.637	1.559	1.896	1.598	1.516	1.940	2.253	2.343	2.200	1.929
87.5	0.853	0.849	0.965	1.476	1.228	1.008	1.194	1.613	1.312	1.086
90.0	0.000	0.000	0.000	0.000	0.000	0.809	0.809	1.719	1.008	0.923
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	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843	3403.843
2.5	3203.250	3361.942	3158.909	3248.810	3003.654	3265.428	3127.249
5.0	2740.486	2637.983	2728.225	2587.613	2592.697	2632.007	2553.116
7.5	1992.298	1936.874	1996.859	1966.799	1934.892	2038.546	2023.261
10.0	1425.553	1429.621	1426.498	1439.370	1297.086	1541.307	1518.559
12.5	1048.852	965.284	1110.466	1022.754	1027.966	1124.509	1155.352
15.0	822.126	830.885	863.740	846.659	771.356	896.102	869.214
17.5	746.530	707.948	720.465	711.907	706.958	722.665	714.556
20.0	684.620	665.419	609.688	664.526	643.689	670.025	628.527
22.5	635.981	616.830	546.265	600.371	595.243	597.307	511.456
25.0	590.831	529.213	438.423	502.878	547.635	481.640	378.865
27.5	548.935	430.275	269.359	383.060	509.610	354.746	252.522
30.0	468.576	264.073	149.289	220.004	461.486	205.267	129.169
32.5	353.701	118.500	95.159	104.848	311.355	99.011	79.334
35.0	238.544	86.501	60.729	77.091	170.108	77.465	63.150
37.5	123.142	58.555	51.392	56.598	109.076	62.583	56.435
40.0	67.287	51.364	45.737	49.029	55.355	60.003	53.862
42.5	60.873	47.362	44.663	47.887	61.170	60.189	57.291
45.0	63.605	58.592	49.572	57.533	66.533	65.352	63.227
47.5	73.640	66.952	61.528	62.523	68.563	66.620	65.397
50.0	71.479	62.471	65.580	59.887	68.410	61.280	66.065
52.5	59.953	56.646	60.535	53.817	53.486	53.512	56.096
55.0	46.992	45.170	51.242	42.433	39.419	41.721	42.082
57.5	32.971	34.572	37.319	33.015	30.697	32.317	32.622
60.0	25.162	27.440	27.368	26.504	22.943	26.619	24.809
62.5	21.749	21.258	21.624	21.254	19.914	21.168	20.126
65.0	18.500	18.129	17.322	17.419	16.600	16.009	16.332

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67.5	15.340	14.674	14.159	13.567	12.646	12.698	13.269
70.0	12.065	10.694	11.125	9.836	10.256	10.282	10.359
72.5	8.966	8.063	8.297	8.583	8.734	8.046	7.741
75.0	6.621	6.131	6.465	6.717	5.496	6.310	4.987
77.5	4.889	4.731	4.882	4.596	3.825	4.872	2.893
80.0	3.854	2.901	3.745	3.147	2.924	3.393	2.133
82.5	3.416	2.203	2.892	2.660	2.104	2.393	2.151
85.0	2.487	2.417	1.560	1.146	1.243	1.388	1.637
87.5	1.169	1.164	1.162	1.416	1.006	1.128	0.853
90.0	1.097	1.140	1.215	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	464.17	N.A.	52.70
0-30	686.21	N.A.	77.80
0-40	763.67	N.A.	86.60
0-60	853.60	N.A.	96.80
0-80	879.46	N.A.	99.80
0-90	881.54	N.A.	100.00
10-90	667.35	N.A.	75.70
20-40	299.50	N.A.	34.00
20-50	347.98	N.A.	39.50
40-70	108.41	N.A.	12.30
60-80	25.86	N.A.	2.90
70-80	7.38	N.A.	0.80
80-90	2.08	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	881.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	214.19
10-20	249.98
20-30	222.04
30-40	77.46
40-50	48.48
50-60	41.45
60-70	18.48
70-80	7.38
80-90	2.08
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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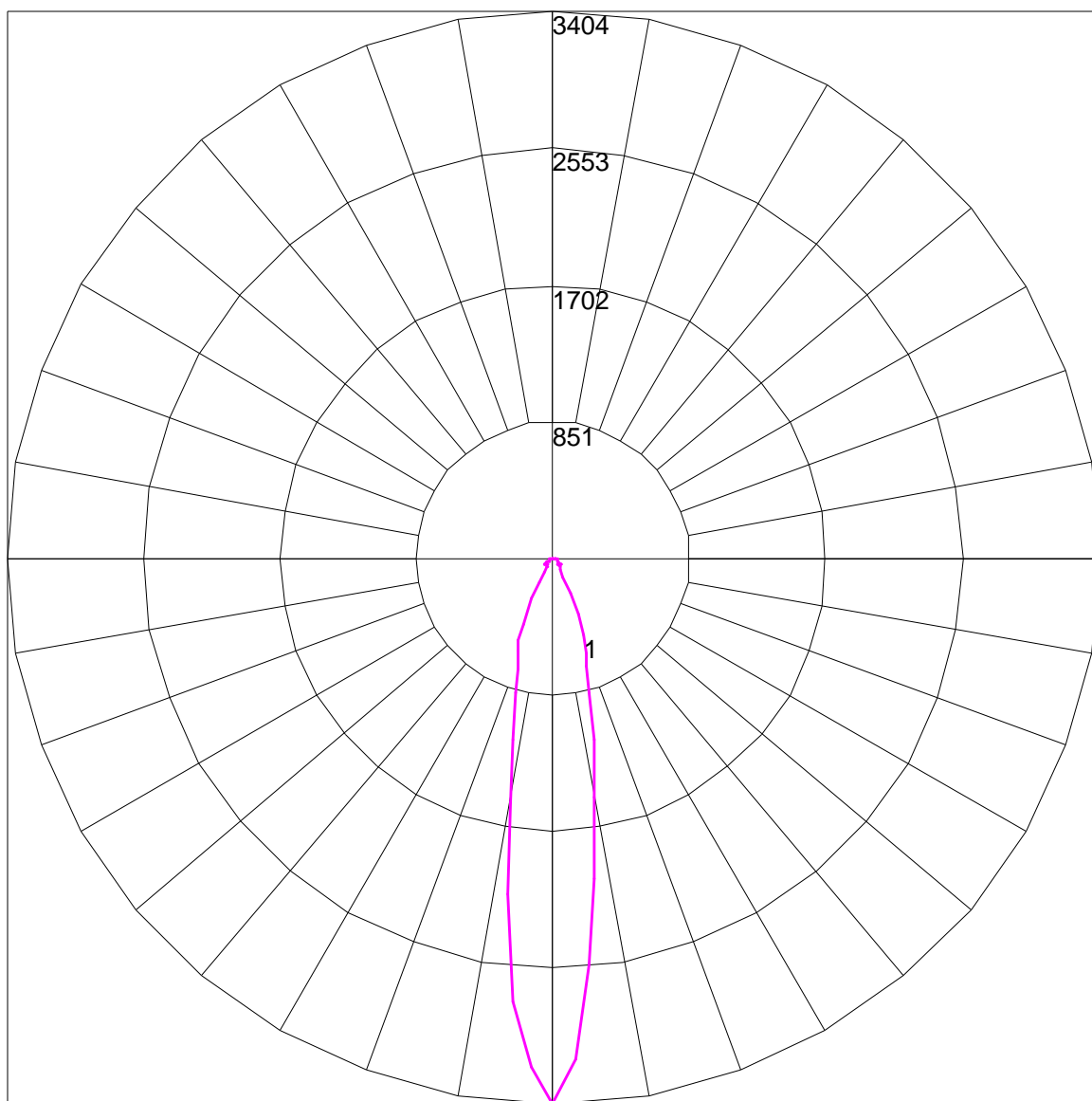
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	96	93	95	93	91	93	91	89	87
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	87	78	73	69	85	77	72	69	76	72	68	75	71	68	74	70	67	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	71	66	63	79	71	66	62	70	65	62	69	65	62	68	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	60	66	62	59	58

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_7 ~ SR2DMO-XT13L-E1-SDD2F-XXK-XNMWNL.IES

POLAR GRAPH



Maximum Candela = 3403.843 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)