

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_2_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT13L-E1-SDD2F-xxK-MD-MW-SO
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Medium Beam
 [OTHER] Matte White Trim, Solite lens
 [OTHER] 35 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	693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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_2 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23909	22347	25471
55	19088	17098	19637
65	8822	10716	8965
75	5205	5050	4163
85	5566	6703	5367

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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	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094
2.5	1537.327	1543.561	1543.853	1548.980	1547.573	1529.267	1532.678	1532.030	1535.472	1526.076
5.0	1488.562	1511.687	1511.214	1521.009	1521.853	1476.961	1490.991	1486.749	1490.259	1472.429
7.5	1388.551	1413.012	1409.977	1429.419	1421.105	1364.486	1378.051	1371.216	1386.094	1359.880
10.0	1268.274	1310.411	1301.136	1325.033	1315.711	1235.962	1260.235	1248.105	1268.292	1236.070
12.5	1114.797	1155.625	1147.877	1172.490	1153.469	1066.927	1092.766	1080.711	1108.414	1076.187
15.0	956.795	1000.544	994.505	1016.136	989.477	898.628	926.284	914.606	942.702	916.478
17.5	793.069	841.985	840.718	849.421	814.564	731.715	773.375	753.489	772.028	757.165
20.0	630.389	685.361	694.758	687.399	641.665	572.980	625.322	597.193	601.072	601.574
22.5	468.738	540.185	569.827	534.694	476.783	425.894	509.662	453.844	445.187	452.416
25.0	333.488	401.510	451.381	395.400	327.777	302.258	397.151	325.512	293.719	323.255
27.5	218.137	288.278	345.678	276.427	222.419	204.917	297.527	227.149	204.925	220.702
30.0	145.505	190.139	251.614	185.227	139.177	137.644	207.402	150.474	123.607	147.022
32.5	97.665	132.898	175.017	126.615	100.981	96.244	144.963	106.830	93.037	102.779
35.0	73.833	88.668	117.566	88.755	73.690	72.409	94.820	76.418	67.053	75.289
37.5	60.520	70.190	82.373	69.581	63.324	60.111	70.623	61.389	60.063	61.277
40.0	53.158	56.094	59.873	57.374	55.624	52.351	52.382	51.830	53.487	52.480
42.5	47.661	48.719	48.699	50.034	51.080	46.901	43.551	47.219	48.106	46.876
45.0	43.844	42.841	40.981	44.438	46.709	42.344	37.132	42.451	43.339	42.166
47.5	40.396	38.715	35.652	39.775	42.498	38.121	33.702	37.574	39.881	37.864
50.0	36.872	34.495	31.934	35.773	38.317	33.566	30.461	33.151	36.274	33.807
52.5	33.340	30.191	29.069	32.031	34.158	28.924	27.397	28.969	32.430	29.833
55.0	28.393	26.866	25.434	28.194	29.211	25.418	24.181	25.600	27.503	25.862
57.5	23.368	24.234	21.500	24.328	23.838	22.105	20.851	22.560	21.222	21.892
60.0	17.658	19.635	18.294	19.122	18.433	16.819	17.295	17.416	16.022	16.646
62.5	12.196	13.985	15.291	13.664	13.014	11.361	13.610	11.675	11.855	11.217
65.0	9.669	10.503	11.745	10.512	9.826	9.251	10.445	8.816	9.032	8.958
67.5	7.274	7.881	8.099	7.630	7.286	7.275	7.500	6.484	7.183	6.925
70.0	5.440	6.565	6.039	6.415	5.828	5.994	5.981	5.702	5.548	5.079
72.5	4.133	5.439	4.298	5.228	4.430	4.682	4.781	4.778	4.025	3.717
75.0	3.494	3.997	3.390	4.103	2.794	3.318	3.853	3.231	3.742	3.360
77.5	2.865	2.764	2.706	3.063	2.163	2.838	2.883	2.577	3.160	2.832
80.0	2.434	1.926	2.072	2.227	1.992	2.148	2.030	2.263	2.345	2.216
82.5	1.992	1.752	1.506	1.755	1.648	1.279	1.577	1.862	1.799	1.648
85.0	1.258	1.325	1.515	1.495	1.213	1.267	1.099	1.371	1.375	1.282
87.5	0.716	1.113	1.115	1.080	0.924	0.771	1.265	1.006	1.184	0.678
90.0	0.545	0.380	0.911	0.949	0.916	0.796	0.310	0.918	0.441	0.959
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	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094	1567.094
2.5	1528.203	1518.800	1522.962	1537.906	1533.410	1538.252	1537.327
5.0	1481.191	1465.878	1468.449	1499.984	1487.157	1500.914	1488.562
7.5	1366.105	1343.421	1349.503	1395.128	1377.969	1392.106	1388.551
10.0	1246.424	1217.868	1222.856	1283.442	1256.301	1277.845	1268.274
12.5	1088.626	1056.775	1061.523	1124.343	1097.589	1119.956	1114.797
15.0	932.556	896.800	900.120	964.025	942.013	962.248	956.795
17.5	784.911	745.569	738.496	810.336	793.383	805.392	793.069
20.0	644.270	596.463	579.410	658.174	656.984	651.529	630.389
22.5	526.274	457.556	426.061	520.535	540.785	507.345	468.738
25.0	413.119	328.660	293.073	387.477	431.506	373.766	333.488
27.5	311.324	231.733	194.855	278.268	330.922	264.663	218.137
30.0	221.619	150.604	124.099	181.692	240.956	176.084	145.505
32.5	153.284	106.148	89.466	128.085	161.513	123.237	97.665
35.0	101.817	72.777	66.945	84.720	107.804	85.136	73.833
37.5	72.948	58.806	56.636	66.895	73.643	66.792	60.520
40.0	53.799	48.711	49.599	53.123	54.562	54.034	53.158
42.5	44.915	43.759	45.128	46.803	44.171	47.011	47.661
45.0	38.245	39.103	40.849	41.666	37.795	41.602	43.844
47.5	33.370	34.752	36.688	38.199	33.193	37.500	40.396
50.0	29.801	31.598	33.654	34.492	29.494	33.624	36.872
52.5	27.037	29.403	31.128	30.523	26.079	29.888	33.340
55.0	24.006	25.548	26.142	26.600	23.729	26.525	28.393
57.5	20.848	20.676	20.326	22.715	21.608	23.334	23.368
60.0	17.337	16.229	15.491	18.322	17.850	18.545	17.658
62.5	13.703	11.979	10.880	13.599	13.877	13.207	12.196
65.0	10.500	9.591	8.716	10.107	10.733	9.599	9.669

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	7.400	7.832	6.883	7.219	7.719	6.395	7.274
70.0	5.401	5.860	5.098	5.861	6.006	5.386	5.440
72.5	3.843	4.094	3.661	4.862	4.545	4.579	4.133
75.0	3.600	3.558	3.145	3.767	3.589	3.948	3.494
77.5	2.726	2.985	2.505	3.104	2.838	2.861	2.865
80.0	1.918	2.296	1.812	2.615	2.229	1.762	2.434
82.5	1.789	1.430	1.310	1.676	1.688	1.287	1.992
85.0	1.462	1.114	1.416	0.876	1.214	1.633	1.258
87.5	1.293	1.228	0.995	0.954	1.083	0.775	0.716
90.0	0.959	0.916	0.734	0.341	0.902	0.753	0.545
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	394.18	N.A.	56.80
0-30	562.94	N.A.	81.20
0-40	621.95	N.A.	89.70
0-60	677.76	N.A.	97.70
0-80	691.91	N.A.	99.80
0-90	693.38	N.A.	100.00
10-90	558.77	N.A.	80.60
20-40	227.78	N.A.	32.80
20-50	260.38	N.A.	37.50
40-70	66.07	N.A.	9.50
60-80	14.16	N.A.	2.00
70-80	3.89	N.A.	0.60
80-90	1.47	N.A.	0.20
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	693.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.61
10-20	259.57
20-30	168.76
30-40	59.01
40-50	32.61
50-60	23.19
60-70	10.27
70-80	3.89
80-90	1.47
90-100	0.10
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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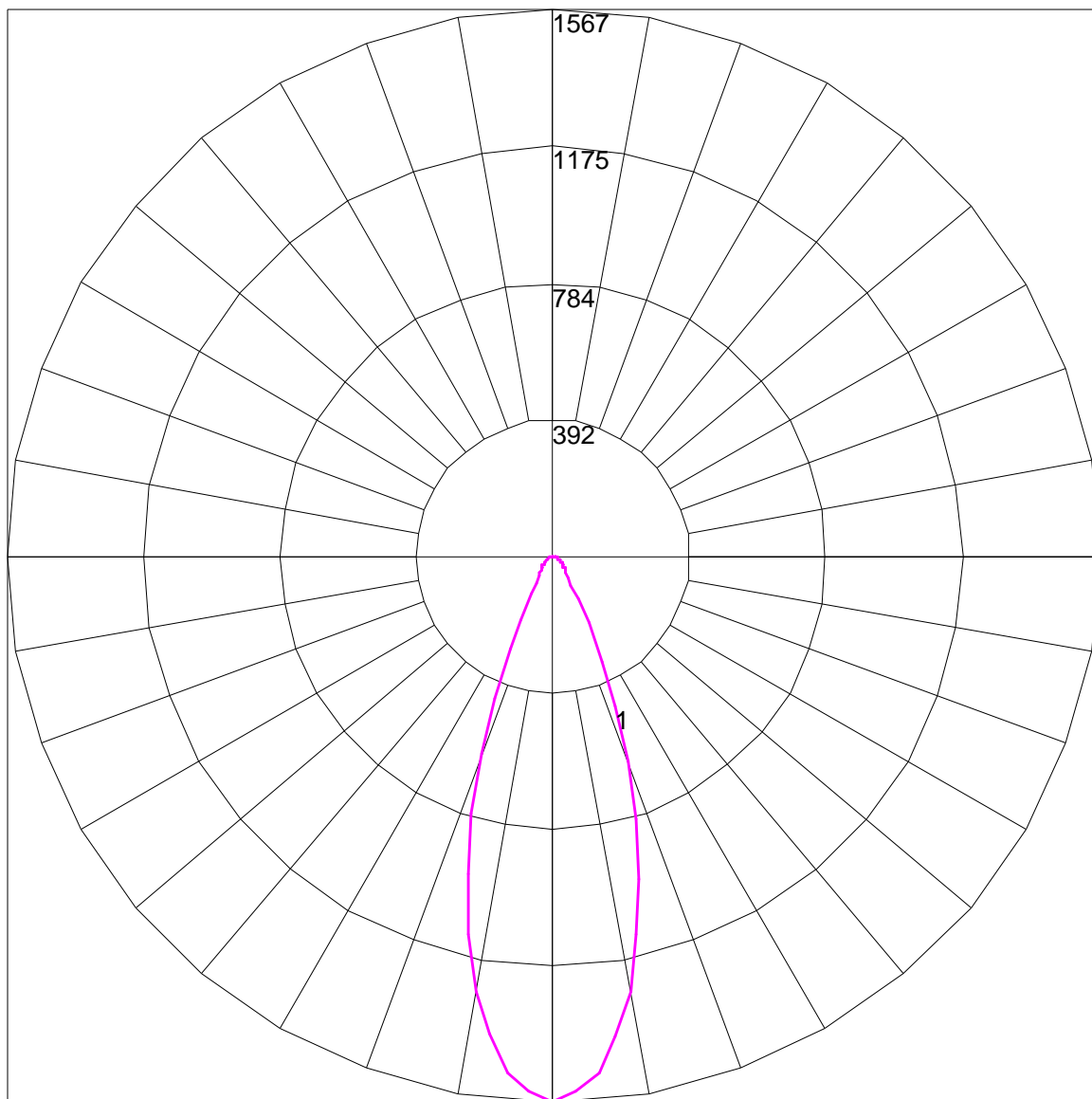
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWSO.IES

POLAR GRAPH



Maximum Candela = 1567.094 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)