

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00649_2_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 3/16/2018

[UPDATE] 4/30/2018

[LUMCAT] SR2DMO-XT10L-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	515
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	11.1
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-XT10L-E1-SDD2F-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17748	16588	18907
55	14169	12692	14577
65	6549	7954	6655
75	3863	3750	3090
85	4132	4977	3982

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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	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266
2.5	1141.170	1145.797	1146.014	1149.820	1148.775	1135.187	1137.719	1137.238	1139.793	1132.818
5.0	1104.971	1122.137	1121.786	1129.057	1129.683	1096.360	1106.774	1103.625	1106.231	1092.995
7.5	1030.732	1048.889	1046.637	1061.069	1054.897	1012.869	1022.938	1017.864	1028.909	1009.449
10.0	941.450	972.728	965.843	983.582	976.662	917.464	935.482	926.478	941.463	917.544
12.5	827.523	857.829	852.078	870.348	856.229	791.988	811.169	802.220	822.785	798.862
15.0	710.236	742.711	738.228	754.285	734.496	667.058	687.588	678.919	699.775	680.309
17.5	588.701	625.012	624.071	630.531	604.657	543.158	574.082	559.321	573.083	562.049
20.0	467.943	508.748	515.724	510.262	476.313	425.327	464.181	443.301	446.180	446.553
22.5	347.948	400.984	422.987	396.907	353.920	316.144	378.326	336.892	330.466	335.832
25.0	247.551	298.044	335.064	293.508	243.312	224.369	294.808	241.630	218.030	239.954
27.5	161.925	213.991	256.600	205.194	165.103	152.111	220.857	168.614	152.117	163.829
30.0	108.010	141.142	186.775	137.496	103.312	102.174	153.956	111.698	91.754	109.136
32.5	72.498	98.651	129.916	93.987	74.959	71.443	107.607	79.301	69.062	76.294
35.0	54.807	65.819	87.270	65.883	54.701	53.750	70.386	56.726	49.774	55.888
37.5	44.924	52.102	61.146	51.650	47.006	44.621	52.424	45.570	44.585	45.486
40.0	39.460	41.639	44.445	42.589	41.290	38.861	38.883	38.474	39.703	38.957
42.5	35.379	36.165	36.150	37.140	37.917	34.815	32.328	35.051	35.709	34.796
45.0	32.546	31.802	30.420	32.987	34.672	31.432	27.563	31.512	32.171	31.300
47.5	29.986	28.738	26.465	29.525	31.546	28.297	25.018	27.891	29.604	28.107
50.0	27.370	25.606	23.705	26.554	28.443	24.916	22.611	24.608	26.926	25.095
52.5	24.748	22.411	21.578	23.777	25.356	21.471	20.337	21.504	24.073	22.145
55.0	21.076	19.943	18.880	20.928	21.684	18.868	17.949	19.003	20.416	19.198
57.5	17.346	17.989	15.960	18.059	17.695	16.409	15.478	16.746	15.754	16.251
60.0	13.108	14.575	13.580	14.194	13.683	12.485	12.838	12.928	11.893	12.357
62.5	9.053	10.381	11.351	10.143	9.660	8.434	10.103	8.666	8.800	8.327
65.0	7.178	7.797	8.718	7.803	7.294	6.867	7.754	6.544	6.705	6.650
67.5	5.400	5.850	6.012	5.664	5.408	5.401	5.567	4.813	5.332	5.141
70.0	4.038	4.873	4.483	4.762	4.326	4.449	4.439	4.233	4.119	3.770
72.5	3.068	4.037	3.190	3.881	3.289	3.475	3.549	3.547	2.988	2.759
75.0	2.593	2.967	2.517	3.046	2.074	2.463	2.860	2.399	2.778	2.494
77.5	2.127	2.052	2.009	2.274	1.606	2.107	2.140	1.913	2.346	2.102
80.0	1.807	1.430	1.538	1.653	1.479	1.595	1.507	1.680	1.741	1.645
82.5	1.478	1.301	1.118	1.303	1.224	0.949	1.171	1.382	1.336	1.224
85.0	0.934	0.984	1.125	1.110	0.900	0.940	0.816	1.018	1.020	0.952
87.5	0.531	0.827	0.828	0.802	0.686	0.572	0.939	0.746	0.879	0.503
90.0	0.405	0.282	0.676	0.704	0.680	0.591	0.230	0.681	0.328	0.712
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	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266	1163.266
2.5	1134.397	1127.417	1130.507	1141.600	1138.262	1141.856	1141.170
5.0	1099.499	1088.133	1090.041	1113.450	1103.928	1114.140	1104.971
7.5	1014.070	997.231	1001.747	1035.614	1022.877	1033.371	1030.732
10.0	925.230	904.033	907.735	952.709	932.562	948.554	941.450
12.5	808.095	784.452	787.977	834.609	814.749	831.352	827.523
15.0	692.243	665.702	668.166	715.603	699.264	714.284	710.236
17.5	582.646	553.442	548.191	601.519	588.935	597.848	588.701
20.0	478.247	442.759	430.100	488.567	487.684	483.635	467.943
22.5	390.658	339.647	316.268	386.397	401.429	376.606	347.948
25.0	306.662	243.967	217.551	287.627	320.311	277.450	247.551
27.5	231.098	172.018	144.642	206.560	245.646	196.461	161.925
30.0	164.510	111.794	92.120	134.871	178.863	130.709	108.010
32.5	113.784	78.794	66.411	95.079	119.893	91.480	72.498
35.0	75.579	54.023	49.694	62.889	80.024	63.197	54.807
37.5	54.150	43.652	42.041	49.656	54.666	49.580	44.924
40.0	39.936	36.159	36.818	39.434	40.502	40.110	39.460
42.5	33.341	32.482	33.499	34.742	32.788	34.897	35.379
45.0	28.390	29.026	30.323	30.929	28.055	30.881	32.546
47.5	24.771	25.797	27.234	28.356	24.639	27.837	29.986
50.0	22.121	23.456	24.981	25.604	21.893	24.960	27.370
52.5	20.070	21.826	23.107	22.658	19.359	22.186	24.748
55.0	17.820	18.964	19.405	19.745	17.614	19.690	21.076
57.5	15.476	15.348	15.088	16.861	16.040	17.321	17.346
60.0	12.869	12.047	11.499	13.601	13.250	13.766	13.108
62.5	10.172	8.892	8.077	10.095	10.301	9.803	9.053
65.0	7.794	7.119	6.470	7.502	7.968	7.125	7.178

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67.5	5.493	5.814	5.110	5.359	5.730	4.747	5.400
70.0	4.009	4.350	3.784	4.351	4.458	3.998	4.038
72.5	2.853	3.039	2.717	3.609	3.374	3.399	3.068
75.0	2.673	2.641	2.335	2.796	2.664	2.931	2.593
77.5	2.024	2.216	1.860	2.304	2.107	2.124	2.127
80.0	1.424	1.705	1.345	1.941	1.654	1.308	1.807
82.5	1.328	1.061	0.973	1.244	1.253	0.955	1.478
85.0	1.085	0.827	1.051	0.650	0.901	1.212	0.934
87.5	0.960	0.911	0.739	0.708	0.804	0.575	0.531
90.0	0.712	0.680	0.545	0.253	0.670	0.559	0.405
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	292.60	N.A.	56.80
0-30	417.88	N.A.	81.20
0-40	461.68	N.A.	89.70
0-60	503.10	N.A.	97.70
0-80	513.61	N.A.	99.80
0-90	514.70	N.A.	100.00
10-90	414.78	N.A.	80.60
20-40	169.08	N.A.	32.80
20-50	193.29	N.A.	37.50
40-70	49.04	N.A.	9.50
60-80	10.51	N.A.	2.00
70-80	2.89	N.A.	0.60
80-90	1.09	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	514.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.92
10-20	192.68
20-30	125.27
30-40	43.81
40-50	24.20
50-60	17.22
60-70	7.62
70-80	2.89
80-90	1.09
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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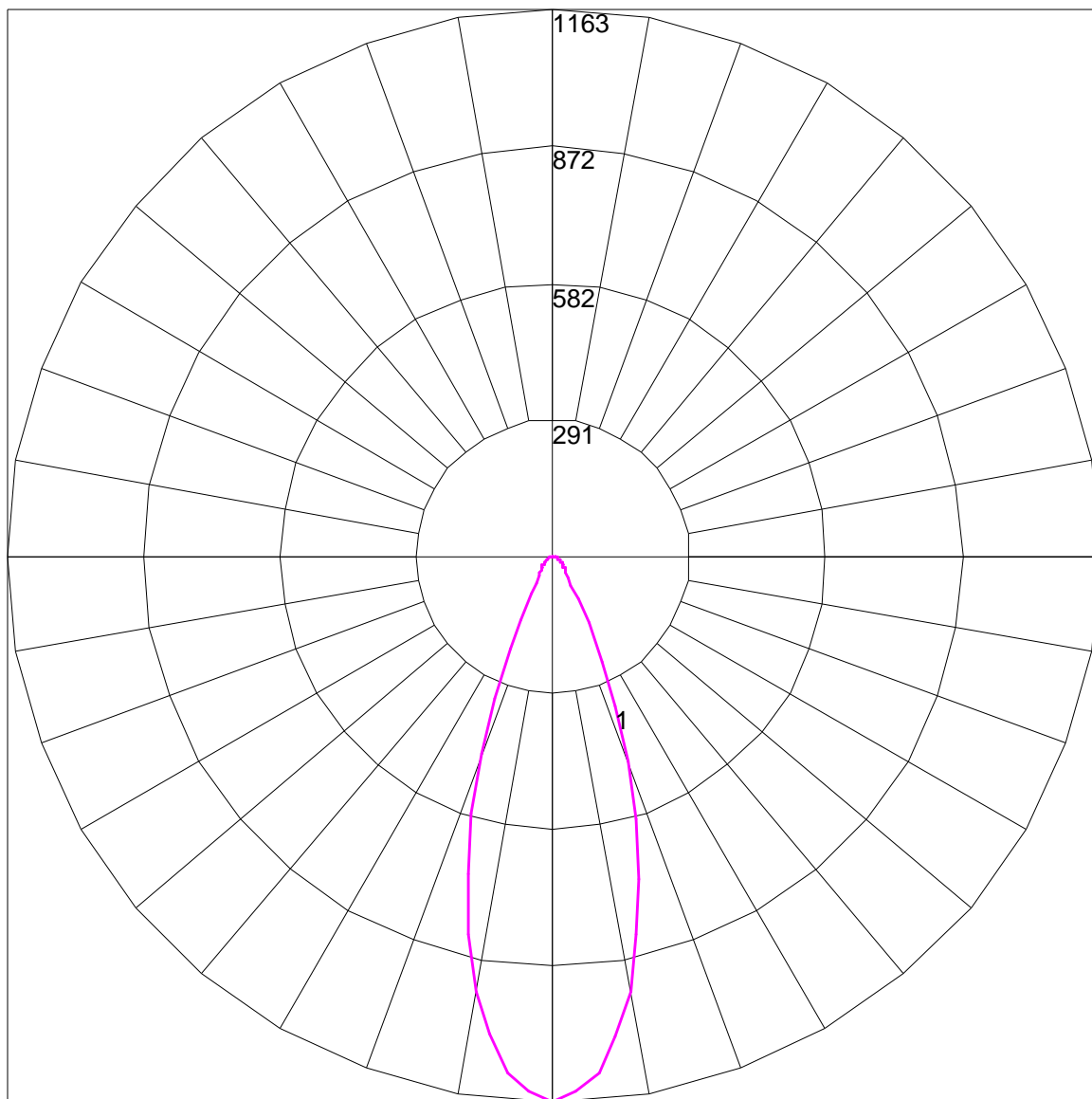
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	91	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	81	78	76	74
6	91	83	77	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	72	69	76	72	69	75	71	68	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	60	68	63	60	67	63	60	67	63	60	59

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWSO.IES

POLAR GRAPH



Maximum Candela = 1163.266 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)