

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00649\_3 ~ SR2DMO-XT10L-E1-SDD2F-XXK-WDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00649\_3\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/16/2018  
[UPDATE] 4/30/2018  
[LUMCAT] SR2DMO-XT10L-E1-SDD2F-xxK-WD-MW-GL  
[LUMINAIRE] Nom. 2" Square Trim Downlight, Wide Beam  
[OTHER] Matte White Trim, Clear Glass lens  
[OTHER] 42.6 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	568
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.76
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\_3 ~ SR2DMO-XT10L-E1-SDD2F-XXK-WDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18855	18201	19020
55	13648	12845	13660
65	8307	8452	7582
75	4721	4189	4882
85	5362	4446	4446

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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	940.790	940.790	940.790	940.790	940.790	940.790	940.790	940.790	940.790	940.790
2.5	927.706	926.734	921.722	923.852	920.116	905.866	905.108	902.940	910.820	908.276
5.0	909.472	908.837	898.279	903.393	891.511	866.140	864.910	863.130	875.819	873.556
7.5	866.285	857.610	842.169	850.555	840.343	807.093	804.607	806.212	828.066	823.311
10.0	820.118	805.333	786.132	796.926	786.587	747.583	744.882	749.221	778.631	771.624
12.5	767.434	751.009	730.608	737.912	727.852	686.873	689.367	691.377	719.358	714.887
15.0	707.870	695.784	675.508	677.395	663.445	623.032	634.141	632.346	659.157	654.704
17.5	636.829	632.826	622.197	610.428	590.635	553.197	580.158	565.225	577.641	586.093
20.0	553.243	566.739	566.453	539.228	506.403	476.404	522.817	494.518	494.673	509.428
22.5	453.873	485.243	503.507	455.790	409.343	389.497	455.395	409.110	395.170	418.335
25.0	360.052	402.061	435.063	371.976	321.374	308.075	383.753	325.505	300.429	332.252
27.5	271.616	313.344	354.967	287.374	241.176	232.698	303.064	247.109	232.930	253.111
30.0	204.370	234.268	277.195	216.122	181.789	174.641	229.181	179.329	168.723	189.262
32.5	152.980	177.535	203.079	166.102	136.265	131.533	166.284	133.580	116.651	141.496
35.0	105.536	125.343	143.034	119.465	94.766	92.765	115.698	92.657	73.574	98.386
37.5	60.311	81.137	100.208	76.894	55.266	56.833	80.336	59.292	53.869	59.055
40.0	43.191	51.489	67.745	51.401	41.624	41.215	55.042	39.409	39.774	41.036
42.5	38.052	41.093	44.933	41.753	37.411	35.473	39.223	35.719	36.285	36.274
45.0	34.577	34.225	33.378	35.802	34.879	32.306	31.473	32.168	33.072	32.646
47.5	31.600	30.902	29.899	32.493	32.775	30.071	29.571	28.744	30.255	29.539
50.0	27.351	27.025	26.308	28.348	28.130	25.621	25.411	25.217	26.626	25.193
52.5	22.856	22.713	22.657	23.754	23.091	20.623	20.004	21.618	22.100	20.432
55.0	20.301	19.431	19.107	20.444	20.320	17.811	16.997	18.307	18.603	17.242
57.5	17.967	16.760	15.598	17.652	17.720	15.334	14.958	15.150	15.972	14.413
60.0	14.373	14.002	13.453	14.482	13.921	12.785	12.729	12.432	12.859	11.969
62.5	10.796	11.205	11.694	11.206	10.233	10.229	10.444	9.883	9.431	9.578
65.0	9.105	9.149	9.264	9.110	8.310	8.474	8.528	7.751	7.376	7.688
67.5	7.401	7.329	6.711	7.224	6.515	6.782	6.683	5.735	5.986	5.883
70.0	5.611	5.715	4.990	5.461	5.353	5.572	5.420	4.309	4.571	4.902
72.5	4.149	4.280	3.533	3.963	4.266	4.471	4.239	3.104	3.252	3.975
75.0	3.169	3.570	2.812	3.256	3.277	3.548	3.247	2.565	2.837	3.158
77.5	2.371	2.554	2.352	2.713	2.508	2.325	2.364	1.867	2.186	2.389
80.0	1.736	1.684	1.904	2.085	1.862	1.469	1.672	1.344	1.491	1.577
82.5	1.374	1.489	1.334	1.337	1.325	1.150	1.279	1.329	1.199	0.907
85.0	1.212	0.933	1.005	1.159	1.005	0.916	1.000	1.027	1.006	0.865
87.5	0.938	0.759	0.773	0.712	0.808	0.896	0.729	0.954	0.778	0.761
90.0	0.557	0.554	0.720	0.513	0.491	0.270	0.462	0.597	0.210	0.436
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	940.790	940.790	940.790	940.790	940.790	940.790	940.790
2.5	912.500	911.114	921.943	931.630	929.886	931.022	927.706
5.0	880.448	879.071	893.735	915.407	913.038	917.443	909.472
7.5	826.753	829.429	853.387	870.837	860.090	870.277	866.285
10.0	773.684	779.567	810.984	823.759	807.178	821.533	820.118
12.5	724.513	728.330	756.777	770.783	754.479	766.417	767.434
15.0	675.195	674.462	701.590	717.243	702.084	708.723	707.870
17.5	625.304	610.200	622.132	654.074	650.863	643.937	636.829
20.0	570.508	539.860	541.197	588.401	596.409	573.265	553.243
22.5	502.523	452.795	438.962	503.645	533.370	490.508	453.873
25.0	428.863	366.080	339.628	417.914	463.538	405.109	360.052
27.5	343.792	280.060	261.449	327.861	380.410	315.674	271.616
30.0	263.858	207.226	187.573	245.599	299.283	241.431	204.370
32.5	191.621	154.233	132.636	187.334	221.124	184.763	152.980
35.0	133.465	106.553	84.920	132.766	157.514	133.130	105.536
37.5	91.299	65.016	58.901	86.307	110.256	86.058	60.311
40.0	60.998	42.625	39.875	53.163	74.327	57.811	43.191
42.5	41.248	37.086	35.859	41.959	48.230	42.497	38.052
45.0	31.610	32.630	32.454	34.359	35.009	35.027	34.577
47.5	28.787	28.917	30.048	31.304	30.373	31.583	31.600
50.0	25.076	24.732	26.405	27.442	26.322	27.570	27.351
52.5	20.913	20.305	21.230	22.806	22.562	23.339	22.856
55.0	17.311	16.975	17.507	19.054	18.323	19.650	20.301
57.5	13.920	14.054	15.150	15.955	13.906	16.107	17.967
60.0	11.544	11.822	12.428	13.308	11.847	13.633	14.373
62.5	9.430	9.772	9.437	10.917	10.388	11.341	10.796
65.0	8.006	7.560	7.548	8.713	8.356	8.792	9.105

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67.5	6.694	5.322	6.262	6.587	6.236	6.295	7.401
70.0	5.431	4.509	4.844	5.002	4.893	5.599	5.611
72.5	4.095	3.758	3.440	3.638	3.725	4.672	4.149
75.0	2.556	3.101	2.657	3.046	3.016	3.231	3.169
77.5	2.015	2.046	2.040	2.538	2.321	2.656	2.371
80.0	1.752	1.234	1.585	1.943	1.801	1.965	1.736
82.5	1.272	1.087	1.229	1.062	1.516	0.945	1.374
85.0	0.837	0.854	0.721	1.051	0.982	0.799	1.212
87.5	0.818	0.743	0.638	0.918	0.733	0.748	0.938
90.0	0.563	0.525	0.609	0.305	0.651	0.307	0.557
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	268.01	N.A.	47.20
0-30	437.00	N.A.	76.90
0-40	510.84	N.A.	89.90
0-60	554.96	N.A.	97.70
0-80	566.77	N.A.	99.80
0-90	567.88	N.A.	100.00
10-90	486.34	N.A.	85.60
20-40	242.83	N.A.	42.80
20-50	270.04	N.A.	47.50
40-70	52.57	N.A.	9.30
60-80	11.80	N.A.	2.10
70-80	3.35	N.A.	0.60
80-90	1.11	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	567.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.54
10-20	186.47
20-30	168.99
30-40	73.85
40-50	27.21
50-60	16.91
60-70	8.45
70-80	3.35
80-90	1.11
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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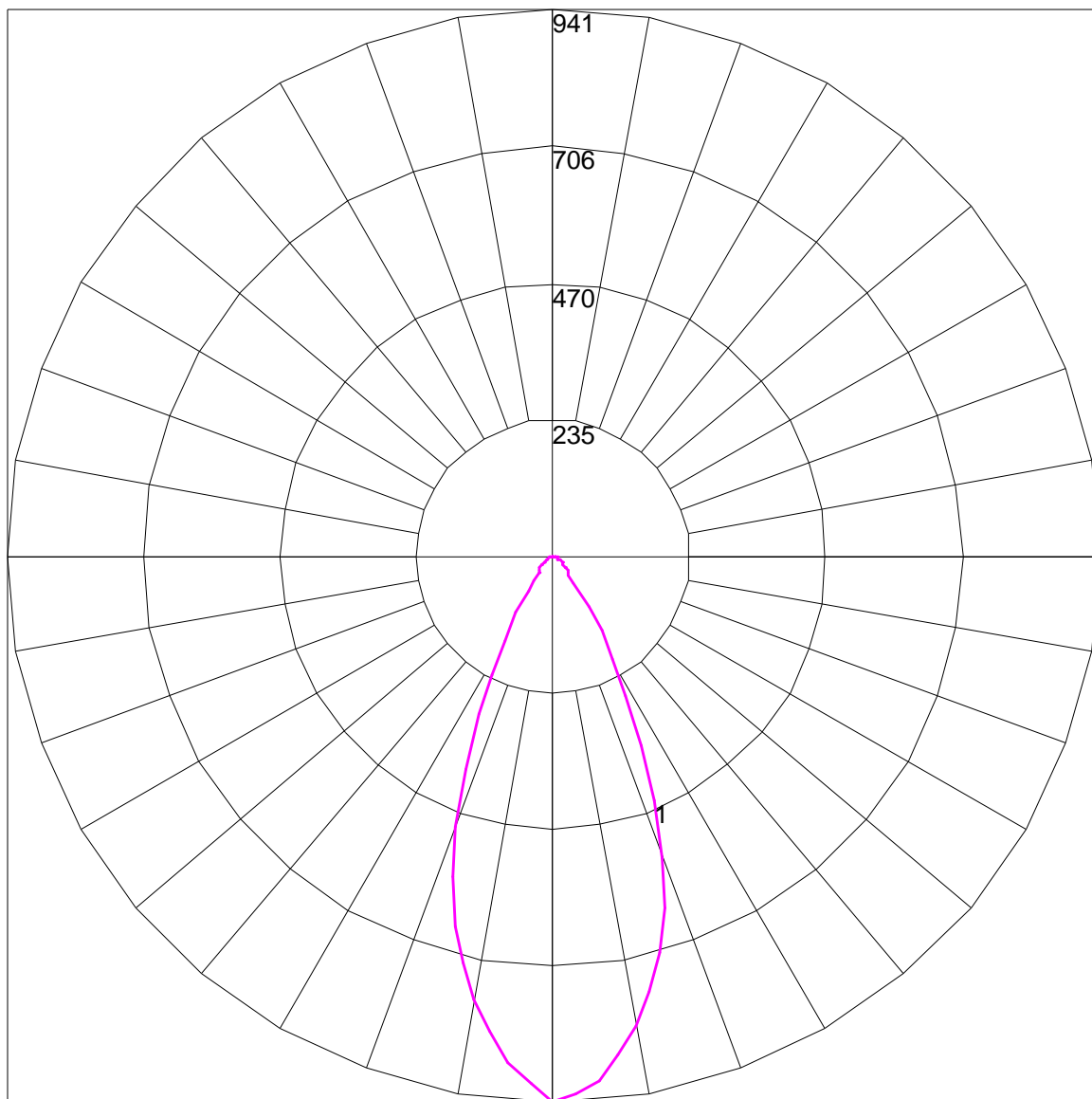
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00649\_3 ~ SR2DMO-XT10L-E1-SDD2F-XXK-WDMWGL.IES

POLAR GRAPH



Maximum Candela = 940.79 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)