

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00648\_4 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00648\_4\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/16/2018  
[UPDATE] 4/30/2018  
[LUMCAT] SR2DMO-XT10L-E1-RDD2F-xxK-WD-MW-NL  
[LUMINAIRE] Nom. 2" Round Trim Downlight, Wide Beam  
[OTHER] Matte White Trim, No lens  
[OTHER] 39.4 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	751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.68
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\_4 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26577	27263	27732
55	27921	28758	29051
65	23364	24256	26004
75	14171	15866	17439
85	8567	10836	9726

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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	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794
2.5	1389.309	1355.712	1380.448	1360.992	1375.442	1354.449	1382.173	1355.424	1384.095	1352.928
5.0	1317.434	1315.049	1321.237	1311.136	1316.324	1307.688	1311.202	1306.998	1309.637	1308.087
7.5	1234.496	1216.033	1235.366	1218.847	1228.013	1209.253	1228.517	1210.147	1228.112	1210.693
10.0	1129.491	1116.738	1134.977	1117.841	1126.638	1109.211	1120.214	1110.761	1120.746	1112.366
12.5	1021.772	1010.710	1027.470	1012.195	1017.303	1000.979	1011.257	1001.452	1012.780	1006.111
15.0	906.375	903.854	913.986	905.845	905.711	891.892	901.075	891.356	903.015	898.785
17.5	790.392	787.100	797.971	790.955	792.940	779.444	790.649	778.798	793.268	784.899
20.0	684.080	672.117	689.256	675.152	683.573	669.108	679.833	669.707	683.566	673.669
22.5	578.090	571.668	583.091	571.076	575.726	565.672	572.487	569.652	576.248	574.604
25.0	473.847	471.231	479.485	467.770	471.438	462.956	469.881	468.777	473.992	475.248
27.5	370.159	370.870	376.615	369.893	368.466	362.156	370.748	366.094	374.711	374.817
30.0	280.519	276.170	288.576	272.427	281.443	271.004	275.789	274.267	280.752	281.301
32.5	193.893	206.851	203.985	207.890	199.410	201.524	201.721	202.519	202.746	208.616
35.0	143.620	141.957	148.683	144.182	146.354	140.684	149.160	140.589	148.941	142.277
37.5	95.098	92.988	98.551	97.206	100.527	96.387	101.449	94.280	100.427	91.634
40.0	61.027	53.218	66.162	53.285	68.014	61.628	58.015	59.631	58.959	52.898
42.5	31.817	40.166	36.078	41.892	38.055	42.314	36.862	41.012	35.100	39.539
45.0	30.882	30.760	31.679	31.732	32.224	30.663	33.010	30.667	31.304	30.564
47.5	30.075	30.228	29.509	30.839	29.983	29.734	31.168	30.047	29.896	29.450
50.0	29.846	29.423	29.229	29.864	29.567	29.152	30.659	29.455	30.818	28.487
52.5	29.071	28.056	29.030	28.434	29.332	28.991	29.134	28.891	29.799	27.752
55.0	26.317	26.182	27.106	26.894	27.382	27.673	27.039	27.168	27.108	26.337
57.5	23.747	23.428	25.151	24.881	25.337	25.155	24.985	24.414	24.620	24.014
60.0	21.705	21.028	22.693	22.680	23.111	22.985	22.951	22.377	22.280	21.678
62.5	19.350	19.165	20.173	19.836	20.870	21.133	20.596	20.882	19.995	19.329
65.0	16.226	17.045	16.845	17.191	18.059	18.582	18.108	18.316	17.745	16.743
67.5	13.379	14.618	13.622	15.035	15.262	15.486	15.333	15.039	14.824	13.922
70.0	10.948	11.645	10.889	12.362	12.563	12.584	12.471	12.110	11.571	11.486
72.5	8.449	8.355	8.572	9.101	9.936	9.780	9.856	9.331	9.441	9.294
75.0	6.027	6.176	6.748	7.207	7.417	7.298	7.418	7.210	7.381	6.887
77.5	4.415	4.121	4.500	5.358	5.624	5.395	5.376	5.250	4.814	5.031
80.0	3.226	2.567	3.200	3.214	3.844	4.397	3.615	3.507	3.510	4.286
82.5	2.323	2.145	2.535	1.910	2.207	2.971	2.437	2.630	2.554	2.468
85.0	1.227	1.335	1.552	1.353	1.393	1.535	1.510	1.322	1.604	1.524
87.5	0.860	0.592	1.030	0.783	0.837	1.104	1.051	1.123	1.131	1.115
90.0	0.000	0.000	0.000	0.000	0.000	0.684	0.894	0.669	0.832	0.658
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	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794	1393.794
2.5	1376.070	1360.658	1374.536	1353.460	1382.886	1356.499	1389.309
5.0	1312.932	1313.000	1309.746	1304.857	1315.311	1307.567	1317.434
7.5	1231.242	1219.495	1226.031	1209.193	1229.833	1212.629	1234.496
10.0	1125.719	1122.699	1122.417	1110.770	1126.765	1112.881	1129.491
12.5	1018.700	1017.409	1015.585	1005.371	1019.161	1006.114	1021.772
15.0	910.037	908.150	905.855	899.659	903.732	898.874	906.375
17.5	800.014	790.085	794.862	782.690	786.742	782.007	790.392
20.0	688.692	678.999	682.867	666.801	681.164	665.088	684.080
22.5	582.932	580.912	577.232	570.068	577.364	565.996	578.090
25.0	481.787	481.239	475.903	472.726	472.528	466.751	473.847
27.5	383.319	379.066	376.387	369.091	367.581	364.321	370.159
30.0	286.749	286.944	277.912	269.869	279.978	265.074	280.519
32.5	210.864	208.729	204.092	201.947	193.435	200.395	193.893
35.0	147.643	141.908	142.615	136.967	140.273	137.695	143.620
37.5	95.752	88.562	92.765	87.184	88.292	89.605	95.098
40.0	49.822	53.661	47.781	45.341	58.765	47.495	61.027
42.5	34.069	37.711	33.848	36.551	30.627	38.134	31.817
45.0	31.624	29.641	30.819	29.681	30.238	30.450	30.882
47.5	30.346	28.606	29.922	29.159	29.791	29.772	30.075
50.0	29.511	27.875	29.643	28.451	28.692	28.828	29.846
52.5	27.858	27.373	27.821	27.241	27.476	26.969	29.071
55.0	25.952	25.777	25.645	25.609	25.412	24.893	26.317
57.5	24.073	23.457	23.561	23.001	23.249	22.213	23.747
60.0	22.199	21.537	21.493	20.633	20.552	19.719	21.705
62.5	19.419	19.845	19.053	18.729	17.854	17.655	19.350
65.0	16.459	16.973	16.565	16.480	15.154	15.344	16.226

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67.5	13.518	13.539	13.928	13.725	12.724	12.600	13.379
70.0	10.648	10.653	11.291	10.949	10.898	10.211	10.948
72.5	8.838	7.981	8.719	8.158	8.585	8.106	8.449
75.0	6.945	6.545	6.415	6.339	5.969	5.985	6.027
77.5	4.934	4.962	4.418	4.569	4.382	4.184	4.415
80.0	3.488	3.336	2.923	2.923	3.041	2.800	3.226
82.5	2.439	2.446	2.036	1.859	1.932	1.762	2.323
85.0	1.371	1.111	1.216	1.406	1.004	1.337	1.227
87.5	0.915	0.984	0.719	0.850	0.551	0.859	0.860
90.0	0.772	0.930	0.934	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	367.88	N.A.	49.00
0-30	581.92	N.A.	77.50
0-40	674.68	N.A.	89.90
0-60	725.04	N.A.	96.60
0-80	749.05	N.A.	99.80
0-90	750.80	N.A.	100.00
10-90	631.88	N.A.	84.20
20-40	306.80	N.A.	40.90
20-50	333.81	N.A.	44.50
40-70	67.02	N.A.	8.90
60-80	24.01	N.A.	3.20
70-80	7.35	N.A.	1.00
80-90	1.75	N.A.	0.20
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	750.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.92
10-20	248.96
20-30	214.04
30-40	92.76
40-50	27.00
50-60	23.35
60-70	16.66
70-80	7.35
80-90	1.75
90-100	0.05
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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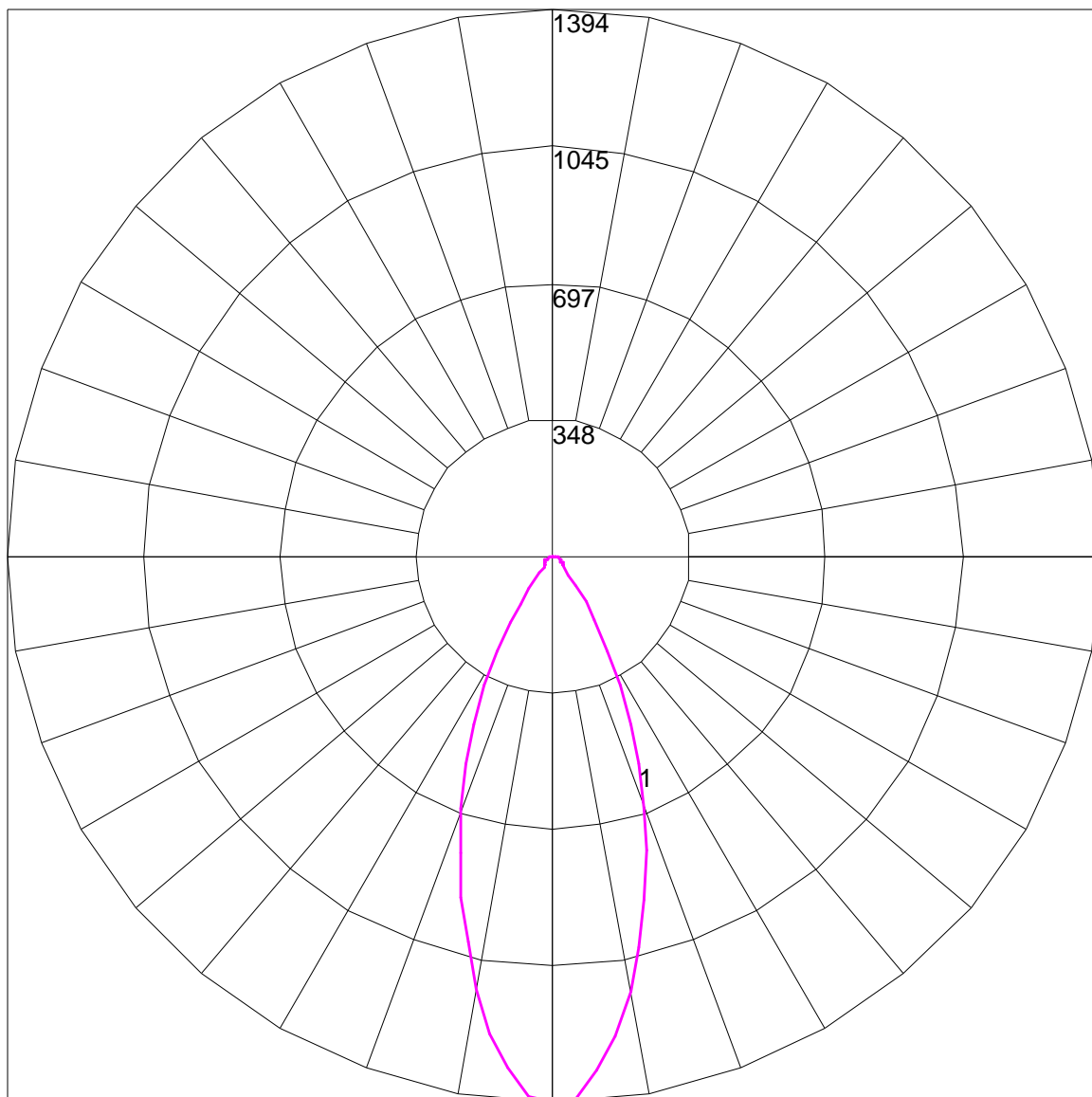
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	103	96	91	88	101	95	90	87	92	89	85	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	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	64	60	77	69	63	60	68	63	60	67	62	59	66	62	59	58
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00648\_4 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWNL.IES

POLAR GRAPH



Maximum Candela = 1393.794 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)