

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_2 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00648_2_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 3/16/2018

[UPDATE] 4/30/2018

[LUMCAT] SR2DMO-XT10L-E1-RDD2F-xxK-MD-MW-SO

[LUMINAIRE] Nom. 2" Round Trim Downlight, Medium Beam

[OTHER] Matte White Trim, Solite lens

[OTHER] 32.7 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	700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.56
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_2 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25941	26664	25442
55	24900	25060	24685
65	17819	17334	16839
75	10214	10343	8504
85	7422	8700	11709

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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	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211
2.5	1839.546	1831.011	1819.873	1837.026	1833.588	1836.862	1836.676	1835.132	1840.026	1833.201
5.0	1735.537	1734.166	1738.074	1738.009	1740.252	1739.931	1736.841	1737.954	1736.008	1735.600
7.5	1619.695	1609.600	1607.854	1616.665	1620.091	1622.831	1617.557	1619.300	1618.297	1614.987
10.0	1433.064	1431.742	1434.940	1434.951	1437.397	1435.380	1432.371	1434.483	1434.485	1433.743
12.5	1243.299	1236.482	1243.238	1239.320	1243.904	1240.679	1233.764	1242.450	1242.472	1245.512
15.0	1036.168	1037.038	1035.601	1032.909	1026.356	1022.044	1021.655	1029.726	1036.448	1039.735
17.5	833.928	836.297	839.456	824.109	819.311	811.826	806.983	824.451	828.787	840.942
20.0	656.893	660.218	652.685	645.699	634.636	627.954	627.517	639.903	650.369	658.887
22.5	487.503	491.374	491.808	473.427	466.559	456.922	454.259	468.877	474.880	490.006
25.0	354.870	357.836	350.925	343.139	332.308	324.048	324.675	332.992	343.254	351.278
27.5	232.455	234.094	239.654	220.980	217.289	206.947	202.213	214.354	215.716	231.205
30.0	156.019	157.367	150.718	147.997	139.796	134.402	134.499	139.277	145.985	151.934
32.5	89.105	92.953	94.671	83.604	80.657	75.711	75.006	79.490	80.723	89.505
35.0	62.390	63.812	62.094	58.555	55.831	54.270	53.068	55.868	57.902	62.308
37.5	40.154	43.373	43.926	40.067	38.148	37.570	36.296	38.070	38.079	42.002
40.0	35.708	36.370	35.797	34.797	33.266	33.013	32.395	33.672	33.615	35.496
42.5	31.841	32.482	31.972	31.492	30.014	29.488	30.106	30.109	30.001	30.563
45.0	30.143	30.110	30.983	29.946	29.563	28.485	28.739	28.351	27.941	28.645
47.5	28.364	28.067	28.910	28.648	28.521	27.543	27.475	26.819	25.955	26.846
50.0	26.293	27.395	26.139	27.385	26.503	26.741	26.156	25.764	25.130	25.265
52.5	24.469	27.003	24.528	26.125	24.709	25.399	24.832	24.308	24.345	23.451
55.0	23.469	24.865	23.620	24.362	23.267	22.853	23.562	22.060	22.398	21.226
57.5	21.971	22.397	21.588	22.540	21.166	20.556	22.296	19.915	20.418	19.039
60.0	18.892	19.548	18.890	19.245	18.063	18.788	18.120	17.969	17.624	16.919
62.5	15.734	16.634	15.612	15.806	14.910	16.522	13.717	15.710	14.843	14.616
65.0	12.375	12.849	12.038	12.147	11.694	13.345	12.152	12.945	12.611	12.048
67.5	9.589	9.227	9.430	8.927	9.348	10.607	10.444	10.442	10.409	9.507
70.0	7.502	7.165	7.163	7.520	7.566	8.310	7.954	8.171	8.298	6.986
72.5	5.865	5.433	5.772	6.107	5.378	6.078	6.097	5.593	6.443	5.728
75.0	4.344	4.028	4.399	4.714	3.617	4.268	4.737	3.727	4.788	4.665
77.5	2.791	2.713	3.063	3.515	2.512	3.541	2.861	3.479	3.344	3.621
80.0	1.958	1.821	1.824	2.345	1.831	2.469	1.944	2.052	2.471	2.593
82.5	1.606	1.644	1.904	1.484	1.605	1.432	1.716	1.708	1.608	1.363
85.0	1.063	1.223	1.246	0.937	1.677	0.998	1.163	1.663	1.321	1.109
87.5	1.208	1.047	0.925	0.792	0.872	0.874	0.724	0.995	0.968	0.976
90.0	0.621	0.000	0.634	0.000	0.000	0.845	0.358	0.707	0.000	0.779
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	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211	1847.211
2.5	1815.126	1834.316	1828.188	1834.106	1836.399	1832.527	1839.546
5.0	1732.343	1732.812	1731.437	1732.687	1733.683	1732.874	1735.537
7.5	1596.340	1613.076	1604.325	1608.705	1613.777	1608.449	1619.695
10.0	1429.420	1428.755	1424.263	1423.282	1424.305	1426.880	1433.064
12.5	1231.276	1239.270	1224.492	1223.087	1230.447	1229.198	1243.299
15.0	1032.571	1032.092	1020.834	1017.169	1019.867	1025.939	1036.168
17.5	833.320	831.775	815.798	809.960	816.465	821.229	833.928
20.0	652.158	653.254	639.536	635.892	638.892	645.430	656.893
22.5	487.906	485.316	472.964	468.830	472.022	476.886	487.503
25.0	349.186	349.946	341.578	339.426	341.579	345.843	354.870
27.5	233.428	229.498	221.442	217.456	223.631	223.432	232.455
30.0	149.447	151.790	145.885	144.573	145.960	148.512	156.019
32.5	92.958	87.567	83.842	80.445	81.533	84.110	89.105
35.0	58.683	60.826	56.813	56.498	57.603	58.091	62.390
37.5	42.893	39.879	39.830	39.397	38.865	39.811	40.154
40.0	34.343	33.967	33.941	34.317	35.211	33.994	35.708
42.5	31.588	29.461	31.059	31.066	32.076	30.586	31.841
45.0	29.479	28.504	29.062	28.824	30.372	29.377	30.143
47.5	27.869	27.433	27.292	26.727	28.672	28.551	28.364
50.0	25.871	26.092	25.789	25.600	26.979	26.559	26.293
52.5	23.586	24.366	24.351	24.595	25.105	24.372	24.469
55.0	21.373	21.755	22.340	22.155	22.775	22.959	23.469
57.5	19.210	19.182	20.199	19.543	20.378	21.662	21.971
60.0	16.521	16.688	17.502	17.373	17.821	18.796	18.892
62.5	13.478	14.017	14.687	15.247	15.210	15.712	15.734
65.0	11.230	11.021	12.237	12.290	12.497	12.297	12.375

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_2 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	9.365	8.473	9.826	9.618	9.939	9.221	9.589
70.0	7.253	6.374	7.325	8.162	7.533	8.048	7.502
72.5	5.321	5.294	5.466	6.528	6.540	6.460	5.865
75.0	3.897	4.479	4.421	4.842	5.376	4.570	4.344
77.5	3.259	3.728	3.375	3.740	3.239	3.533	2.791
80.0	2.253	2.415	2.315	2.224	2.283	2.719	1.958
82.5	1.361	1.806	1.387	1.856	1.510	2.049	1.606
85.0	0.819	1.223	0.971	0.792	1.116	1.788	1.063
87.5	0.998	0.901	0.942	0.995	0.887	1.019	1.208
90.0	0.117	0.737	0.490	0.000	0.787	0.000	0.621
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_2 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWSO.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	437.46	N.A.	62.50
0-30	596.99	N.A.	85.30
0-40	638.64	N.A.	91.20
0-60	681.65	N.A.	97.30
0-80	698.82	N.A.	99.80
0-90	700.20	N.A.	100.00
10-90	543.76	N.A.	77.70
20-40	201.17	N.A.	28.70
20-50	223.98	N.A.	32.00
40-70	55.32	N.A.	7.90
60-80	17.17	N.A.	2.50
70-80	4.87	N.A.	0.70
80-90	1.38	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	700.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	156.44
10-20	281.02
20-30	159.53
30-40	41.65
40-50	22.80
50-60	20.21
60-70	12.30
70-80	4.87
80-90	1.38
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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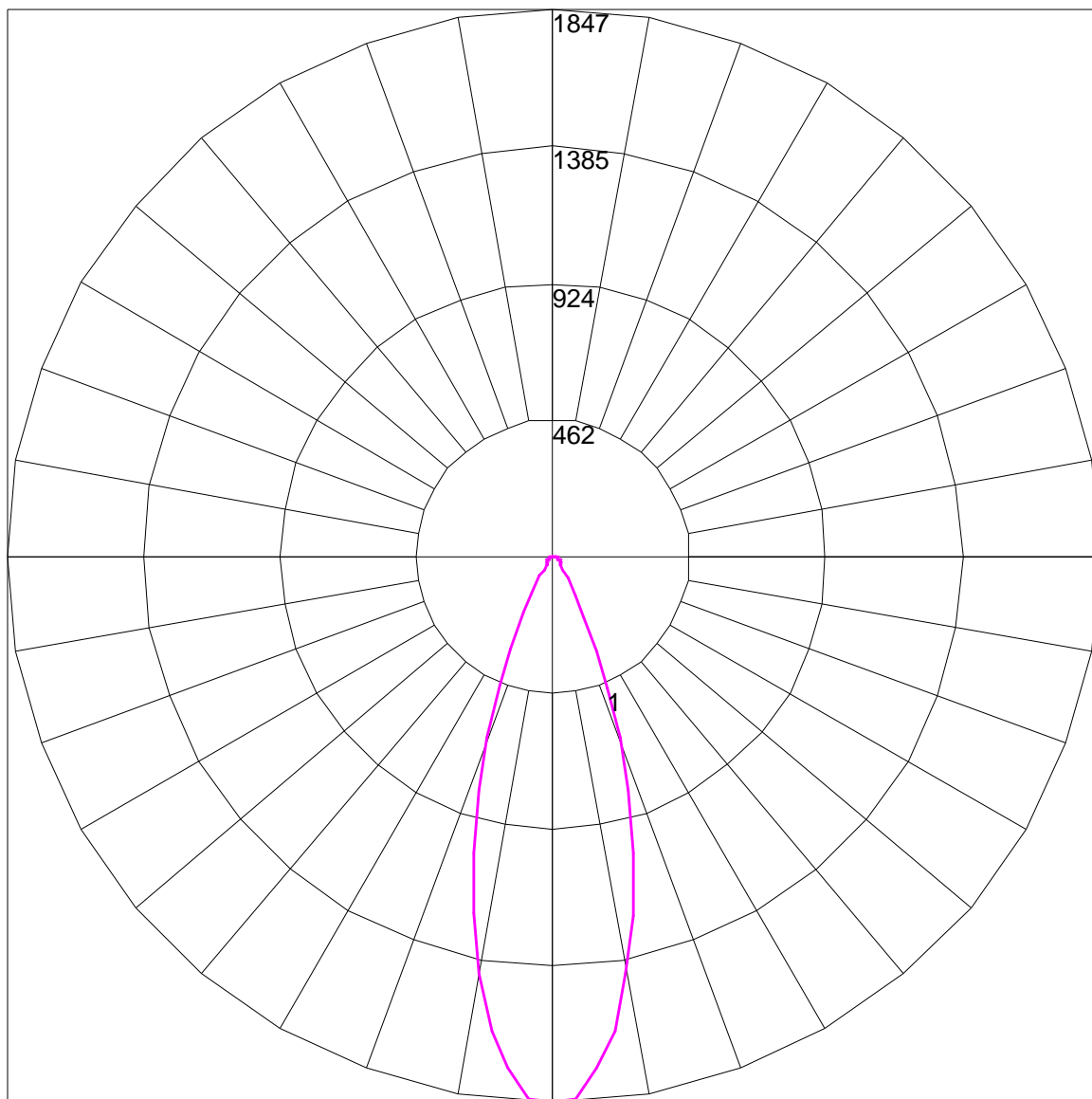
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64
10	80	72	67	64	79	71	67	64	71	66	63	70	66	63	69	66	63	62

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_2 ~ SR2DMO-XT10L-E1-RDD2F-XXK-MDMWSO.IES

POLAR GRAPH



Maximum Candela = 1847.211 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)