

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_3 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_3
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT20L-E1-RDD2F-xxK-WD-MW-GL
[LUMINAIRE] Nom. 2" Round Trim Downlight, Wide Beam
[OTHER] Matte White Trim, Clear Glass lens
[OTHER] 39.3 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
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_3 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	65275	65701	65472
55	57639	59569	59946
65	46140	48755	49033
75	31697	33047	31871
85	19662	20235	20779

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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	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613
2.5	2586.555	2551.283	2587.086	2536.496	2563.482	2531.094	2565.521	2533.225	2574.567	2546.965
5.0	2474.205	2467.116	2474.423	2461.159	2462.589	2450.843	2451.695	2445.980	2455.374	2458.603
7.5	2319.734	2296.257	2326.101	2281.452	2297.993	2268.894	2294.036	2268.800	2304.914	2288.134
10.0	2129.045	2116.476	2134.494	2100.115	2113.965	2085.517	2100.609	2086.900	2108.833	2101.976
12.5	1925.652	1916.593	1930.437	1900.040	1912.787	1883.380	1897.595	1884.352	1905.733	1898.333
15.0	1705.874	1707.647	1712.498	1697.023	1699.884	1678.876	1688.054	1677.821	1694.325	1692.551
17.5	1481.597	1481.992	1491.675	1473.940	1478.456	1457.358	1474.207	1458.494	1483.851	1478.340
20.0	1275.439	1266.649	1283.720	1255.291	1267.806	1239.797	1258.004	1246.835	1274.291	1263.578
22.5	1072.838	1066.579	1077.650	1056.953	1063.572	1042.070	1053.179	1054.060	1069.341	1066.816
25.0	871.199	870.083	877.628	860.929	862.728	845.986	853.287	859.599	868.110	870.656
27.5	669.687	677.880	678.107	672.949	663.492	655.808	666.261	661.759	680.634	683.542
30.0	512.321	514.526	523.119	503.055	507.121	485.412	483.711	492.929	502.138	501.872
32.5	358.199	380.177	370.503	380.880	366.930	369.749	368.158	370.567	372.066	381.015
35.0	260.571	266.564	271.978	268.815	265.421	262.801	270.068	260.964	267.746	264.126
37.5	165.524	169.916	176.825	177.635	175.220	174.959	184.945	167.885	182.173	172.991
40.0	120.965	114.365	126.085	111.876	125.972	110.846	102.273	108.906	104.610	96.317
42.5	79.609	86.463	80.820	89.317	85.402	88.081	84.288	86.873	80.113	83.402
45.0	75.847	73.758	76.343	74.762	76.076	73.739	74.392	74.497	73.119	72.755
47.5	71.723	69.397	71.787	71.180	71.445	71.396	69.034	70.640	69.227	69.737
50.0	65.177	64.731	66.842	67.311	67.531	67.632	63.966	65.934	66.128	65.947
52.5	58.964	59.932	61.753	63.117	63.679	62.204	60.162	60.610	60.780	60.172
55.0	54.327	54.754	56.146	57.885	56.502	56.850	56.329	55.629	55.028	54.533
57.5	49.472	49.446	50.767	51.683	49.273	51.568	51.280	50.853	49.528	49.173
60.0	43.866	43.799	46.033	45.617	44.703	45.622	46.140	45.978	44.056	43.772
62.5	38.127	38.064	40.654	39.654	40.036	39.145	40.061	41.056	38.540	38.305
65.0	32.043	32.253	33.859	33.718	34.052	33.395	34.104	34.746	33.025	32.550
67.5	26.428	26.429	27.273	27.798	28.265	28.113	28.888	27.913	28.302	26.411
70.0	21.566	21.722	20.976	22.077	23.373	23.038	23.621	22.362	23.352	21.333
72.5	17.371	16.992	16.982	16.570	18.471	18.043	18.229	17.244	17.228	17.132
75.0	13.481	12.187	14.055	12.241	13.555	12.951	13.453	14.040	12.292	12.620
77.5	9.134	9.174	10.746	9.410	10.033	8.660	9.130	10.302	8.609	8.603
80.0	5.947	6.168	7.171	7.471	7.103	5.584	5.330	6.484	5.668	5.938
82.5	4.234	3.805	4.626	5.516	4.861	4.911	4.806	5.708	4.267	4.726
85.0	2.816	2.787	2.898	3.133	2.976	2.989	3.607	3.028	3.216	2.731
87.5	1.556	1.674	1.911	1.512	2.541	2.161	2.246	2.163	1.761	2.496
90.0	0.000	0.000	0.000	0.000	0.000	1.640	1.670	1.480	1.861	0.940
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	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613	2605.613
2.5	2580.552	2533.986	2564.079	2534.267	2572.180	2540.607	2586.555
5.0	2462.436	2455.422	2457.979	2454.722	2468.071	2461.946	2474.205
7.5	2316.138	2280.133	2298.179	2275.897	2305.789	2280.968	2319.734
10.0	2121.928	2101.163	2104.872	2094.087	2117.533	2095.336	2129.045
12.5	1919.016	1893.791	1899.323	1891.208	1911.693	1890.366	1925.652
15.0	1703.996	1684.946	1687.666	1684.549	1692.709	1684.366	1705.874
17.5	1491.981	1468.709	1476.888	1459.682	1466.576	1461.178	1481.597
20.0	1283.412	1257.207	1266.468	1243.295	1263.833	1241.429	1275.439
22.5	1080.171	1063.480	1067.902	1056.411	1071.330	1051.190	1072.838
25.0	881.900	870.434	873.023	867.211	870.661	860.441	871.199
27.5	695.185	679.310	683.598	671.778	667.172	666.850	669.687
30.0	517.363	507.505	495.417	497.590	508.505	488.100	512.321
32.5	379.041	378.088	368.395	368.784	361.419	367.423	358.199
35.0	265.663	260.045	251.465	253.214	253.587	254.653	260.571
37.5	178.809	162.458	169.212	160.158	153.292	165.882	165.524
40.0	105.358	98.581	90.399	98.776	111.687	99.079	120.965
42.5	79.409	83.481	80.377	82.138	77.314	83.739	79.609
45.0	72.999	73.415	73.421	71.557	71.743	72.355	75.847
47.5	68.879	69.342	69.459	67.921	67.957	68.303	71.723
50.0	65.483	64.055	65.374	62.976	63.797	63.861	65.177
52.5	60.324	57.573	59.234	56.811	59.612	58.821	58.964
55.0	54.754	52.555	53.167	51.804	54.953	53.572	54.327
57.5	50.144	48.709	47.755	47.703	50.179	48.062	49.472
60.0	45.696	43.581	42.412	42.896	44.177	42.775	43.866
62.5	38.715	37.612	37.449	37.645	38.151	37.717	38.127
65.0	31.473	31.593	32.396	31.341	31.967	32.228	32.043

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_3 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWGL.IES****CANDELA TABULATION - (Cont.)**

67.5	26.235	25.547	27.013	24.519	25.939	26.396	26.428
70.0	21.051	21.212	21.913	20.659	20.377	20.589	21.566
72.5	15.828	17.406	17.320	17.273	15.455	14.987	17.371
75.0	11.758	13.323	12.951	12.941	11.121	11.826	13.481
77.5	8.985	9.473	9.058	8.989	9.082	8.585	9.134
80.0	6.604	6.080	6.698	5.670	6.061	5.839	5.947
82.5	4.382	4.411	4.630	3.521	3.522	4.193	4.234
85.0	3.127	2.962	2.850	2.215	2.426	2.620	2.816
87.5	1.747	1.893	1.911	1.424	1.795	1.923	1.556
90.0	1.801	1.346	1.624	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	689.57	N.A.	48.90
0-30	1082.49	N.A.	76.70
0-40	1251.95	N.A.	88.70
0-60	1361.38	N.A.	96.40
0-80	1407.9	N.A.	99.70
0-90	1411.4	N.A.	100.00
10-90	1188.28	N.A.	84.20
20-40	562.38	N.A.	39.80
20-50	622.68	N.A.	44.10
40-70	141.97	N.A.	10.10
60-80	46.52	N.A.	3.30
70-80	13.99	N.A.	1.00
80-90	3.49	N.A.	0.20
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1411.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.11
10-20	466.46
20-30	392.91
30-40	169.46
40-50	60.31
50-60	49.12
60-70	32.54
70-80	13.99
80-90	3.49
90-100	0.11
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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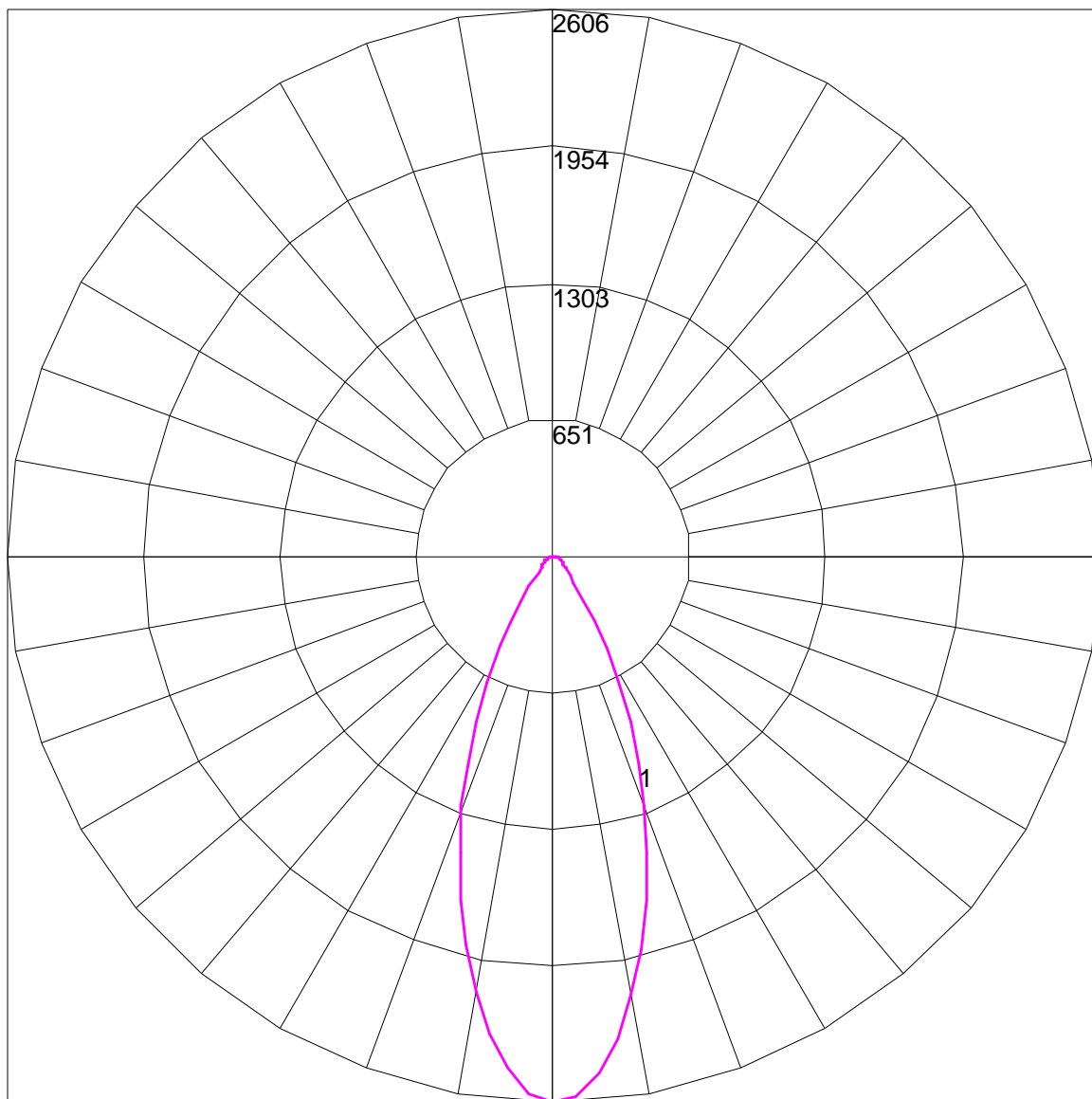
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	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	67	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_3 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWGL.IES

POLAR GRAPH



Maximum Candela = 2605.613 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)