

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00649_5
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT20L-E1-SDD2F-xxK-WD-MW-SO
[LUMINAIRE] Nom. 2" Square Trim Downlight, Wide Beam
[OTHER] Matte White Trim, Solite lens
[OTHER] 43.9 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.70
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_5 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	45079	48730	43747
55	34751	31381	35417
65	18569	20731	18823
75	11025	10879	11580
85	10229	10565	10105

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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	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538
2.5	1851.293	1850.008	1842.753	1846.242	1843.628	1820.341	1824.312	1821.920	1833.202	1830.908
5.0	1819.793	1825.275	1808.893	1810.190	1800.540	1762.005	1770.928	1762.883	1785.843	1784.818
7.5	1744.921	1741.212	1721.030	1726.552	1715.011	1666.508	1672.455	1674.850	1698.783	1696.531
10.0	1658.985	1654.780	1630.219	1636.604	1618.667	1563.663	1572.732	1573.781	1606.843	1602.577
12.5	1548.038	1543.946	1518.460	1525.109	1502.148	1443.352	1458.662	1457.301	1485.835	1487.496
15.0	1425.814	1430.645	1405.058	1407.269	1374.323	1315.542	1343.363	1331.220	1362.716	1365.397
17.5	1284.199	1298.973	1284.719	1274.240	1230.465	1174.441	1218.912	1196.377	1203.558	1224.897
20.0	1122.260	1161.505	1160.822	1129.158	1064.130	1017.848	1091.362	1041.601	1041.837	1071.759
22.5	934.009	997.529	1026.772	962.898	873.259	840.616	949.974	873.026	853.468	894.540
25.0	755.837	832.700	884.974	794.121	698.283	674.140	804.445	709.325	671.451	724.299
27.5	587.589	665.277	726.755	621.921	536.513	518.869	646.326	548.186	523.847	564.154
30.0	447.392	510.527	574.292	476.587	408.561	393.342	498.951	420.028	386.344	427.007
32.5	328.799	383.718	430.880	359.011	302.164	291.388	374.875	304.692	285.316	315.458
35.0	237.834	275.574	312.226	264.181	219.884	213.336	270.170	225.165	198.246	227.627
37.5	162.887	198.326	223.440	187.486	149.200	149.569	197.055	155.265	146.200	159.891
40.0	122.281	140.919	158.538	136.868	113.799	112.854	140.828	120.071	106.687	117.758
42.5	96.562	108.287	115.879	102.170	90.576	88.465	105.690	91.042	90.142	92.525
45.0	82.666	86.008	89.362	84.196	80.224	75.941	81.822	77.858	77.266	77.343
47.5	72.460	73.704	74.255	73.770	73.002	67.264	68.662	66.104	69.583	67.100
50.0	65.141	64.659	62.987	65.722	65.598	60.399	58.489	58.891	62.483	59.521
52.5	58.413	58.035	53.783	58.452	58.166	53.924	50.537	51.808	56.009	52.883
55.0	51.693	50.230	46.679	52.056	52.684	47.199	44.452	45.999	48.192	46.424
57.5	44.973	41.766	40.413	45.855	47.315	40.442	39.409	39.894	39.261	40.010
60.0	35.032	35.070	33.886	36.835	36.293	31.585	33.300	31.510	31.840	31.857
62.5	25.100	29.121	27.288	27.453	25.687	22.712	26.755	24.030	25.381	23.439
65.0	20.352	22.902	22.722	22.088	20.630	19.096	21.103	20.702	20.446	19.046
67.5	15.801	16.605	18.530	17.101	15.937	15.543	15.715	17.140	16.226	15.025
70.0	12.499	12.673	13.791	14.281	12.907	12.410	12.607	12.985	12.292	12.529
72.5	9.626	9.267	9.641	11.555	10.158	9.764	9.795	9.473	8.620	9.925
75.0	7.400	7.063	7.302	9.013	7.773	7.872	7.192	6.524	6.594	7.093
77.5	6.293	5.463	5.460	6.518	5.814	5.736	5.183	5.375	5.216	5.577
80.0	4.949	4.396	4.169	4.790	4.383	3.841	3.909	4.411	4.206	4.152
82.5	3.285	3.617	3.448	3.717	3.315	2.640	3.328	3.338	2.941	2.640
85.0	2.312	2.005	2.388	2.237	2.284	2.230	1.663	2.247	1.974	2.124
87.5	1.561	1.809	1.513	1.990	1.717	1.246	1.501	2.213	1.772	1.889
90.0	1.187	1.304	1.128	1.006	1.302	1.130	1.502	1.330	0.366	1.615
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	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538	1869.538
2.5	1834.475	1833.717	1842.473	1855.344	1855.024	1855.965	1851.293
5.0	1792.998	1787.478	1799.538	1831.625	1828.770	1827.414	1819.793
7.5	1707.577	1702.362	1722.793	1757.957	1749.442	1758.446	1744.921
10.0	1619.443	1615.252	1639.997	1678.806	1664.969	1674.936	1658.985
12.5	1513.913	1507.599	1530.053	1575.690	1560.897	1567.475	1548.038
15.0	1406.041	1397.147	1417.628	1470.883	1453.210	1454.155	1425.814
17.5	1288.973	1261.444	1259.959	1342.058	1336.043	1320.917	1284.199
20.0	1166.349	1119.013	1099.674	1209.099	1213.023	1184.743	1122.260
22.5	1028.514	942.370	906.462	1036.673	1078.849	1013.375	934.009
25.0	881.072	768.119	717.183	863.980	934.563	839.470	755.837
27.5	714.312	601.927	559.723	689.916	775.428	675.338	587.589
30.0	556.997	450.347	410.257	526.504	619.263	514.194	447.392
32.5	413.837	333.355	298.594	398.567	466.403	395.867	328.799
35.0	296.803	233.511	200.445	284.267	342.971	283.499	237.834
37.5	209.858	164.416	144.478	203.034	244.828	211.069	162.887
40.0	147.779	115.150	101.592	139.334	174.839	146.424	122.281
42.5	107.811	92.587	88.206	106.795	123.433	113.329	96.562
45.0	82.665	76.751	76.998	83.134	93.625	86.005	82.666
47.5	67.509	67.798	69.470	71.505	74.433	74.899	72.460
50.0	56.600	59.076	61.517	61.240	62.544	64.773	65.141
52.5	47.896	50.539	53.022	52.399	53.338	56.666	58.413
55.0	41.009	43.341	45.232	45.981	46.585	49.172	51.693
57.5	34.807	36.952	38.143	41.488	40.447	42.617	44.973
60.0	29.932	30.800	30.728	35.131	34.209	36.020	35.032
62.5	25.399	24.756	23.064	27.640	27.955	29.373	25.100
65.0	20.536	19.403	18.352	21.973	21.144	23.545	20.352

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	15.618	14.276	15.306	17.134	14.510	18.450	15.801
70.0	12.848	11.118	12.264	13.317	12.096	14.031	12.499
72.5	10.305	8.431	9.272	9.905	9.943	9.940	9.626
75.0	8.299	6.779	6.917	7.962	8.341	7.941	7.400
77.5	5.868	5.564	5.681	6.213	5.730	5.823	6.293
80.0	3.803	4.470	5.037	4.596	3.759	3.798	4.949
82.5	2.781	3.132	3.309	3.082	3.024	3.361	3.285
85.0	2.155	2.154	2.226	2.461	2.170	2.419	2.312
87.5	1.616	1.648	1.695	1.391	1.750	1.986	1.561
90.0	1.748	1.570	1.420	0.387	1.151	0.450	1.187
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	551.62	N.A.	45.30
0-30	907.92	N.A.	74.60
0-40	1075.78	N.A.	88.40
0-60	1185.2	N.A.	97.30
0-80	1214.73	N.A.	99.80
0-90	1217.41	N.A.	100.00
10-90	1051.54	N.A.	86.40
20-40	524.17	N.A.	43.10
20-50	591.23	N.A.	48.60
40-70	130.65	N.A.	10.70
60-80	29.53	N.A.	2.40
70-80	8.30	N.A.	0.70
80-90	2.67	N.A.	0.20
90-110	0.16	N.A.	0.00
90-120	0.16	N.A.	0.00
90-130	0.16	N.A.	0.00
90-150	0.16	N.A.	0.00
90-180	0.16	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1217.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.87
10-20	385.75
20-30	356.31
30-40	167.86
40-50	67.06
50-60	42.36
60-70	21.24
70-80	8.30
80-90	2.67
90-100	0.16
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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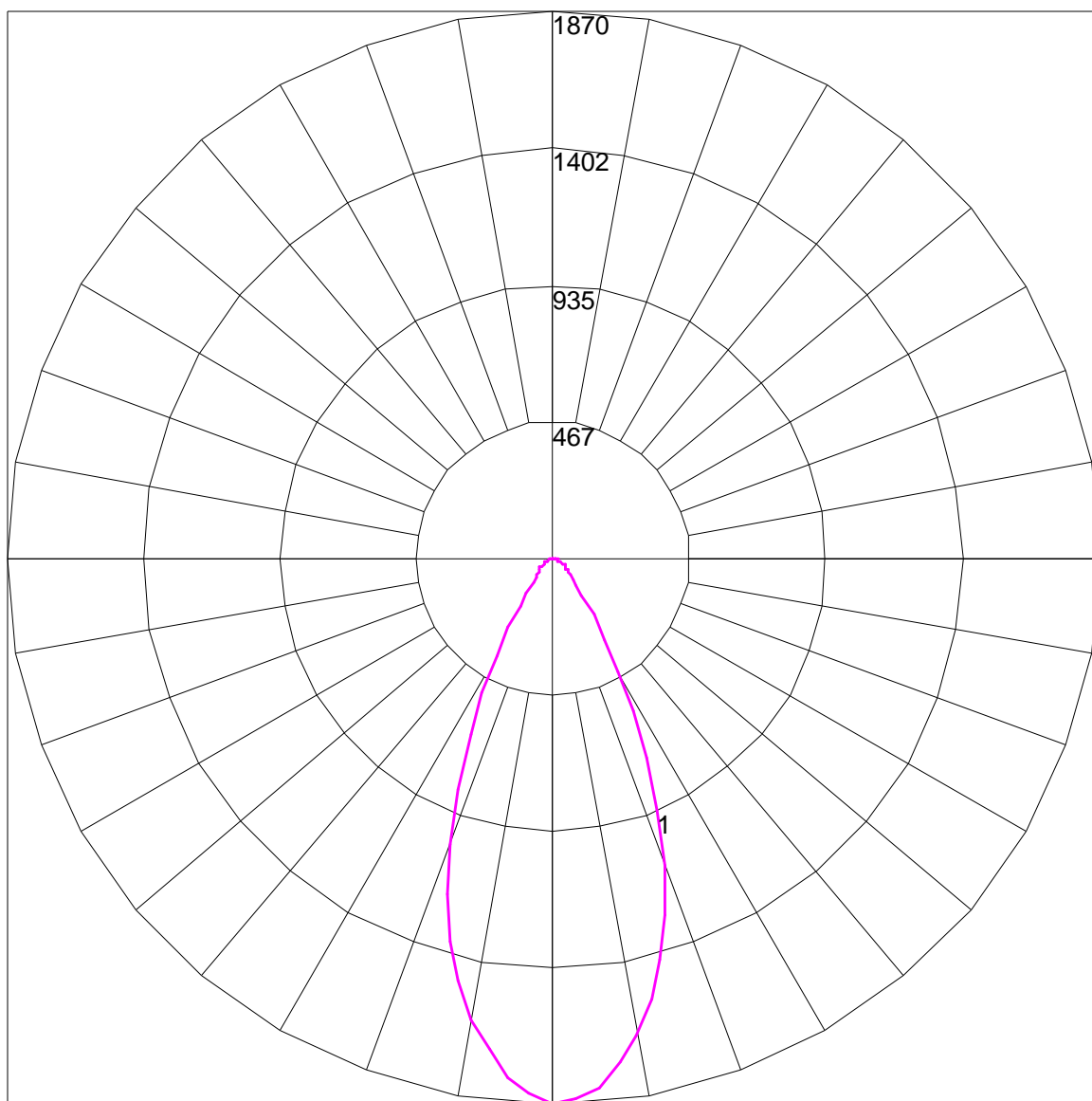
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	93	84	78	74	91	83	78	74	81	77	73	80	76	73	78	75	72	70
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56
10	73	64	58	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 1869.538 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)