

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_1 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWNL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_1_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT13L-E1-SDD2F-xxK-MD-MW-NL
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Medium Beam
 [OTHER] Matte White Trim, No lens
 [OTHER] 34.7 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 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	763
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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_1 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23652	17744	23562
55	16809	11660	17217
65	9139	9259	8789
75	4718	5135	5292
85	6132	6083	5601

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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	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977
2.5	1763.282	1763.177	1766.180	1763.893	1762.741	1744.197	1746.248	1751.309	1753.970	1751.430
5.0	1721.355	1738.455	1719.547	1733.250	1723.367	1686.084	1706.787	1687.258	1711.148	1705.090
7.5	1634.461	1643.798	1648.009	1645.888	1637.206	1570.095	1581.620	1588.007	1604.825	1595.236
10.0	1502.067	1538.691	1501.009	1529.794	1508.564	1416.733	1448.977	1427.820	1473.886	1456.419
12.5	1308.444	1341.252	1315.309	1344.414	1311.677	1201.494	1231.820	1227.702	1272.690	1242.002
15.0	1108.529	1135.152	1117.631	1131.432	1107.510	995.492	1013.367	1026.710	1050.323	1032.383
17.5	901.733	940.237	914.946	933.410	893.612	801.841	847.785	825.252	849.545	832.579
20.0	711.564	746.243	759.186	740.127	700.479	628.074	686.009	656.168	653.626	648.896
22.5	536.626	590.790	618.520	580.159	529.909	476.224	577.443	500.976	484.455	491.549
25.0	379.363	437.124	504.869	427.970	375.850	343.374	469.028	370.700	319.366	350.172
27.5	235.258	310.862	397.785	304.347	236.395	227.817	361.735	248.680	212.366	230.495
30.0	147.592	191.995	294.284	185.294	147.426	148.755	258.480	168.422	110.980	144.735
32.5	93.840	131.409	191.403	128.046	95.793	96.682	175.515	98.910	85.506	96.419
35.0	68.775	78.371	130.647	77.185	70.222	68.607	103.252	72.903	63.181	68.035
37.5	57.909	64.846	74.385	63.274	60.205	55.075	70.362	54.771	57.778	57.823
40.0	51.959	52.983	56.203	51.033	53.322	46.943	43.956	46.704	52.409	51.010
42.5	47.918	47.447	39.965	45.930	47.956	41.464	35.529	39.778	47.594	46.751
45.0	43.374	41.395	32.539	40.761	43.208	37.171	28.845	36.675	42.832	40.944
47.5	38.678	33.872	25.336	34.402	38.698	33.335	25.988	33.805	38.508	34.198
50.0	33.704	27.524	22.192	28.268	34.477	30.161	23.101	29.894	34.211	28.281
52.5	28.668	23.869	19.172	24.064	30.341	27.190	20.160	25.997	30.056	22.774
55.0	25.004	20.795	17.345	20.195	25.611	23.156	17.739	22.561	25.710	19.753
57.5	21.549	18.780	15.588	18.193	20.754	18.884	16.060	19.087	20.627	17.709
60.0	17.021	16.294	14.232	15.981	16.219	15.151	14.488	15.221	15.915	14.295
62.5	12.393	13.118	12.650	12.938	11.734	11.498	13.041	11.518	12.269	10.470
65.0	10.017	10.255	10.148	10.141	9.633	9.024	10.781	8.807	9.189	8.612
67.5	7.788	7.762	7.888	8.033	7.741	6.688	7.751	6.478	7.335	7.199
70.0	6.310	5.964	6.219	6.154	6.043	5.294	5.936	5.357	5.630	5.651
72.5	4.785	4.622	4.748	4.592	4.556	4.143	4.759	4.473	4.094	4.195
75.0	3.167	3.233	3.447	3.359	3.552	3.559	3.476	3.838	3.115	3.099
77.5	2.467	2.534	2.910	2.421	2.436	2.745	2.439	2.609	2.384	2.272
80.0	2.022	2.647	2.466	1.975	1.651	1.971	1.763	1.751	1.896	1.678
82.5	1.695	1.371	1.949	1.500	1.436	1.329	1.512	1.380	1.151	1.273
85.0	1.386	1.218	1.375	1.292	1.266	0.941	1.240	1.174	1.292	0.891
87.5	0.871	0.944	0.877	0.991	1.089	1.196	1.109	1.122	1.204	0.950
90.0	0.557	0.408	0.778	0.256	0.720	0.751	0.339	0.803	0.424	0.726
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	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977	1775.977
2.5	1757.640	1754.267	1753.632	1762.450	1760.201	1763.407	1763.282
5.0	1711.012	1697.720	1712.017	1735.618	1727.196	1725.381	1721.355
7.5	1613.212	1593.868	1598.180	1641.741	1625.342	1637.104	1634.461
10.0	1461.282	1440.519	1461.949	1527.886	1500.029	1506.506	1502.067
12.5	1272.866	1234.235	1261.534	1340.617	1293.283	1326.815	1308.444
15.0	1053.035	1031.464	1046.519	1136.648	1093.487	1113.598	1108.529
17.5	868.821	831.795	852.925	945.255	912.345	920.203	901.733
20.0	709.492	657.927	662.745	755.806	750.084	738.031	711.564
22.5	581.353	502.832	493.235	597.662	627.433	576.671	536.626
25.0	471.303	368.079	325.762	442.470	509.794	424.668	379.363
27.5	362.604	245.264	217.095	320.503	400.669	301.933	235.258
30.0	254.528	162.612	111.250	200.637	296.975	189.418	147.592
32.5	173.464	99.347	85.655	139.638	200.829	127.308	93.840
35.0	102.283	70.149	61.183	81.269	126.996	78.968	68.775
37.5	70.614	53.821	55.217	63.517	78.349	62.252	57.909
40.0	50.095	46.492	49.364	46.988	48.414	51.705	51.959
42.5	40.409	41.743	44.431	40.494	36.171	44.221	47.918
45.0	32.921	36.056	39.599	34.930	28.669	37.136	43.374
47.5	27.626	30.165	35.327	34.250	24.812	34.221	38.678
50.0	22.632	25.765	30.998	32.758	22.066	31.606	33.704
52.5	19.029	21.582	26.443	28.099	20.010	27.747	28.668
55.0	15.536	19.298	22.040	23.540	18.112	23.871	25.004
57.5	14.527	17.178	18.089	19.269	16.294	20.113	21.549
60.0	13.539	14.068	14.378	15.473	14.777	16.362	17.021
62.5	11.026	10.945	11.227	12.746	13.382	12.696	12.393
65.0	8.572	8.762	8.508	10.178	11.187	9.344	10.017

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_1 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	6.727	6.640	6.558	7.892	8.749	7.833	7.788
70.0	5.125	4.937	4.976	5.977	6.321	6.220	6.310
72.5	4.198	3.561	3.747	4.417	4.135	4.380	4.785
75.0	3.240	2.703	2.919	3.121	3.106	3.150	3.167
77.5	2.348	1.828	2.332	2.164	2.482	2.324	2.467
80.0	1.964	1.413	2.033	1.763	2.192	1.862	2.022
82.5	1.568	1.428	1.141	1.670	2.039	1.546	1.695
85.0	1.104	1.284	0.978	1.284	1.201	1.453	1.386
87.5	1.251	1.054	0.909	1.279	1.011	0.942	0.871
90.0	0.443	0.796	0.949	0.293	0.927	0.394	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	451.27	N.A.	59.20
0-30	639.62	N.A.	83.90
0-40	699.31	N.A.	91.70
0-60	747.79	N.A.	98.10
0-80	761.21	N.A.	99.80
0-90	762.58	N.A.	100.00
10-90	606.59	N.A.	79.50
20-40	248.04	N.A.	32.50
20-50	277.31	N.A.	36.40
40-70	58.24	N.A.	7.60
60-80	13.42	N.A.	1.80
70-80	3.65	N.A.	0.50
80-90	1.37	N.A.	0.20
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	762.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.99
10-20	295.28
20-30	188.36
30-40	59.69
40-50	29.26
50-60	19.21
60-70	9.77
70-80	3.65
80-90	1.37
90-100	0.08
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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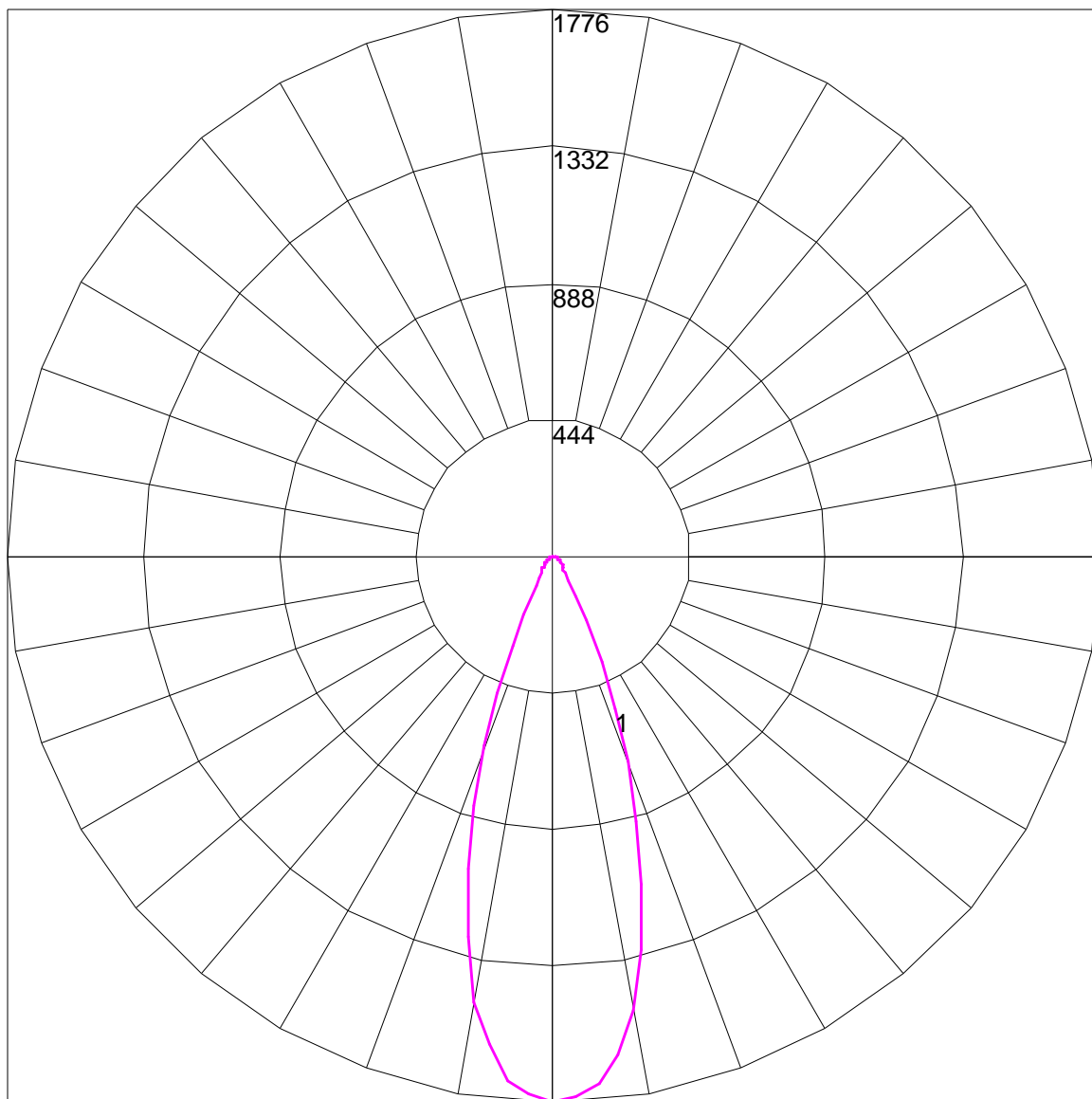
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	80	78	83	79	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_1 ~ SR2DMO-XT13L-E1-SDD2F-XXK-MDMWNL.IES

POLAR GRAPH



Maximum Candela = 1775.977 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)