

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT20L-E1-SDD2F-XXK-MDMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_2
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT20L-E1-SDD2F-xxK-MD-MW-SO
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Medium Beam
 [OTHER] Matte White Trim, Solite lens
 [OTHER] 35 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	1067
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
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_2 ~ SR2DMO-XT20L-E1-SDD2F-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	36783	34380	39186
55	29365	26305	30211
65	13573	16486	13793
75	8008	7771	6403
85	8565	10313	8256

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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	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914
2.5	2365.119	2374.709	2375.158	2383.047	2380.881	2352.719	2357.966	2356.969	2362.265	2347.810
5.0	2290.095	2325.673	2324.945	2340.014	2341.313	2272.248	2293.832	2287.306	2292.707	2265.275
7.5	2136.233	2173.864	2169.195	2199.107	2186.316	2099.210	2120.079	2109.563	2132.453	2092.123
10.0	1951.191	2016.017	2001.748	2038.513	2024.171	1901.480	1938.823	1920.161	1951.218	1901.646
12.5	1715.073	1777.885	1765.964	1803.831	1774.567	1641.426	1681.179	1662.632	1705.253	1655.673
15.0	1471.992	1539.298	1530.007	1563.286	1522.272	1382.504	1425.053	1407.086	1450.311	1409.966
17.5	1220.106	1295.362	1293.412	1306.801	1253.176	1125.716	1189.808	1159.214	1187.736	1164.869
20.0	969.830	1054.401	1068.859	1057.537	987.177	881.507	962.034	918.758	924.726	925.498
22.5	721.136	831.054	876.657	822.606	733.512	655.221	784.095	698.222	684.903	696.024
25.0	513.059	617.707	694.433	608.307	504.273	465.013	611.002	500.787	451.876	497.315
27.5	335.595	443.504	531.813	425.272	342.183	315.257	457.734	349.460	315.269	339.542
30.0	223.854	292.522	387.099	284.965	214.118	211.760	319.080	231.498	190.164	226.188
32.5	150.254	204.459	269.257	194.792	155.356	148.068	223.020	164.354	143.134	158.122
35.0	113.589	136.412	180.871	136.546	113.370	111.399	145.877	117.566	103.158	115.830
37.5	93.107	107.984	126.727	107.047	97.421	92.479	108.651	94.445	92.405	94.272
40.0	81.782	86.298	92.113	88.267	85.575	80.540	80.587	79.738	82.287	80.739
42.5	73.325	74.953	74.922	76.975	78.584	72.155	67.001	72.644	74.009	72.117
45.0	67.453	65.910	63.047	68.366	71.860	65.145	57.126	65.310	66.676	64.871
47.5	62.147	59.561	54.850	61.192	65.381	58.647	51.850	57.806	61.355	58.253
50.0	56.726	53.069	49.130	55.035	58.949	51.640	46.863	51.001	55.806	52.011
52.5	51.292	46.447	44.721	49.279	52.551	44.499	42.149	44.568	49.892	45.897
55.0	43.681	41.332	39.129	43.375	44.940	39.104	37.201	39.385	42.312	39.788
57.5	35.951	37.283	33.077	37.428	36.674	34.008	32.079	34.707	32.650	33.680
60.0	27.166	30.207	28.145	29.418	28.358	25.876	26.608	26.794	24.649	25.610
62.5	18.763	21.516	23.525	21.022	20.021	17.479	20.938	17.961	18.239	17.257
65.0	14.876	16.159	18.069	16.172	15.117	14.233	16.070	13.563	13.896	13.782
67.5	11.191	12.125	12.460	11.738	11.209	11.193	11.538	9.976	11.051	10.654
70.0	8.369	10.100	9.291	9.870	8.966	9.221	9.201	8.773	8.536	7.814
72.5	6.359	8.367	6.612	8.043	6.816	7.203	7.356	7.351	6.192	5.718
75.0	5.375	6.149	5.216	6.312	4.298	5.105	5.927	4.971	5.757	5.169
77.5	4.408	4.253	4.163	4.713	3.328	4.366	4.435	3.964	4.862	4.357
80.0	3.745	2.963	3.187	3.426	3.065	3.305	3.123	3.482	3.608	3.410
82.5	3.064	2.696	2.317	2.700	2.536	1.967	2.426	2.865	2.768	2.536
85.0	1.936	2.039	2.331	2.300	1.866	1.949	1.691	2.110	2.115	1.973
87.5	1.101	1.713	1.716	1.662	1.421	1.186	1.946	1.547	1.821	1.043
90.0	0.839	0.585	1.402	1.460	1.409	1.224	0.477	1.412	0.679	1.475
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	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914	2410.914
2.5	2351.081	2336.616	2343.019	2366.010	2359.092	2366.542	2365.119
5.0	2278.755	2255.197	2259.152	2307.668	2287.934	2309.099	2290.095
7.5	2101.700	2066.801	2076.159	2146.351	2119.953	2141.702	2136.233
10.0	1917.575	1873.643	1881.317	1974.526	1932.771	1965.915	1951.191
12.5	1674.809	1625.808	1633.112	1729.759	1688.599	1723.010	1715.073
15.0	1434.701	1379.693	1384.800	1483.115	1449.251	1480.381	1471.992
17.5	1207.556	1147.030	1136.147	1246.671	1220.590	1239.064	1220.106
20.0	991.185	917.636	891.400	1012.575	1010.744	1002.353	969.830
22.5	809.653	703.932	655.478	800.823	831.977	780.531	721.136
25.0	635.568	505.631	450.882	596.119	663.856	575.025	513.059
27.5	478.960	356.513	299.777	428.104	509.111	407.174	335.595
30.0	340.953	231.698	190.922	279.526	370.701	270.899	223.854
32.5	235.822	163.304	137.640	197.054	248.482	189.596	150.254
35.0	156.641	111.964	102.993	130.339	165.852	130.979	113.589
37.5	112.227	90.471	87.132	102.915	113.297	102.757	93.107
40.0	82.768	74.940	76.306	81.728	83.941	83.130	81.782
42.5	69.100	67.321	69.427	72.004	67.955	72.325	73.325
45.0	58.839	60.158	62.845	64.102	58.146	64.003	67.453
47.5	51.338	53.465	56.443	58.768	51.066	57.693	62.147
50.0	45.847	48.613	51.775	53.065	45.375	51.730	56.726
52.5	41.595	45.236	47.890	46.959	40.122	45.982	51.292
55.0	36.932	39.304	40.218	40.923	36.506	40.808	43.681
57.5	32.074	31.810	31.271	34.946	33.243	35.898	35.951
60.0	26.672	24.967	23.833	28.188	27.461	28.531	27.166
62.5	21.082	18.429	16.739	20.922	21.350	20.318	18.763
65.0	16.154	14.755	13.410	15.549	16.513	14.767	14.876

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT20L-E1-SDD2F-XXK-MDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	11.384	12.049	10.590	11.106	11.876	9.839	11.191
70.0	8.309	9.015	7.843	9.017	9.240	8.286	8.369
72.5	5.912	6.299	5.632	7.480	6.992	7.045	6.359
75.0	5.539	5.474	4.839	5.795	5.521	6.074	5.375
77.5	4.194	4.593	3.854	4.775	4.366	4.402	4.408
80.0	2.951	3.533	2.787	4.023	3.429	2.711	3.745
82.5	2.753	2.200	2.016	2.578	2.597	1.980	3.064
85.0	2.249	1.714	2.178	1.347	1.868	2.512	1.936
87.5	1.990	1.889	1.531	1.468	1.666	1.192	1.101
90.0	1.476	1.410	1.129	0.524	1.388	1.158	0.839
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	606.43	N.A.	56.80
0-30	866.06	N.A.	81.20
0-40	956.85	N.A.	89.70
0-60	1042.7	N.A.	97.70
0-80	1064.48	N.A.	99.80
0-90	1066.74	N.A.	100.00
10-90	859.64	N.A.	80.60
20-40	350.43	N.A.	32.80
20-50	400.59	N.A.	37.50
40-70	101.65	N.A.	9.50
60-80	21.78	N.A.	2.00
70-80	5.98	N.A.	0.60
80-90	2.26	N.A.	0.20
90-110	0.15	N.A.	0.00
90-120	0.15	N.A.	0.00
90-130	0.15	N.A.	0.00
90-150	0.15	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1066.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	207.10
10-20	399.33
20-30	259.63
30-40	90.79
40-50	50.17
50-60	35.68
60-70	15.80
70-80	5.98
80-90	2.26
90-100	0.15
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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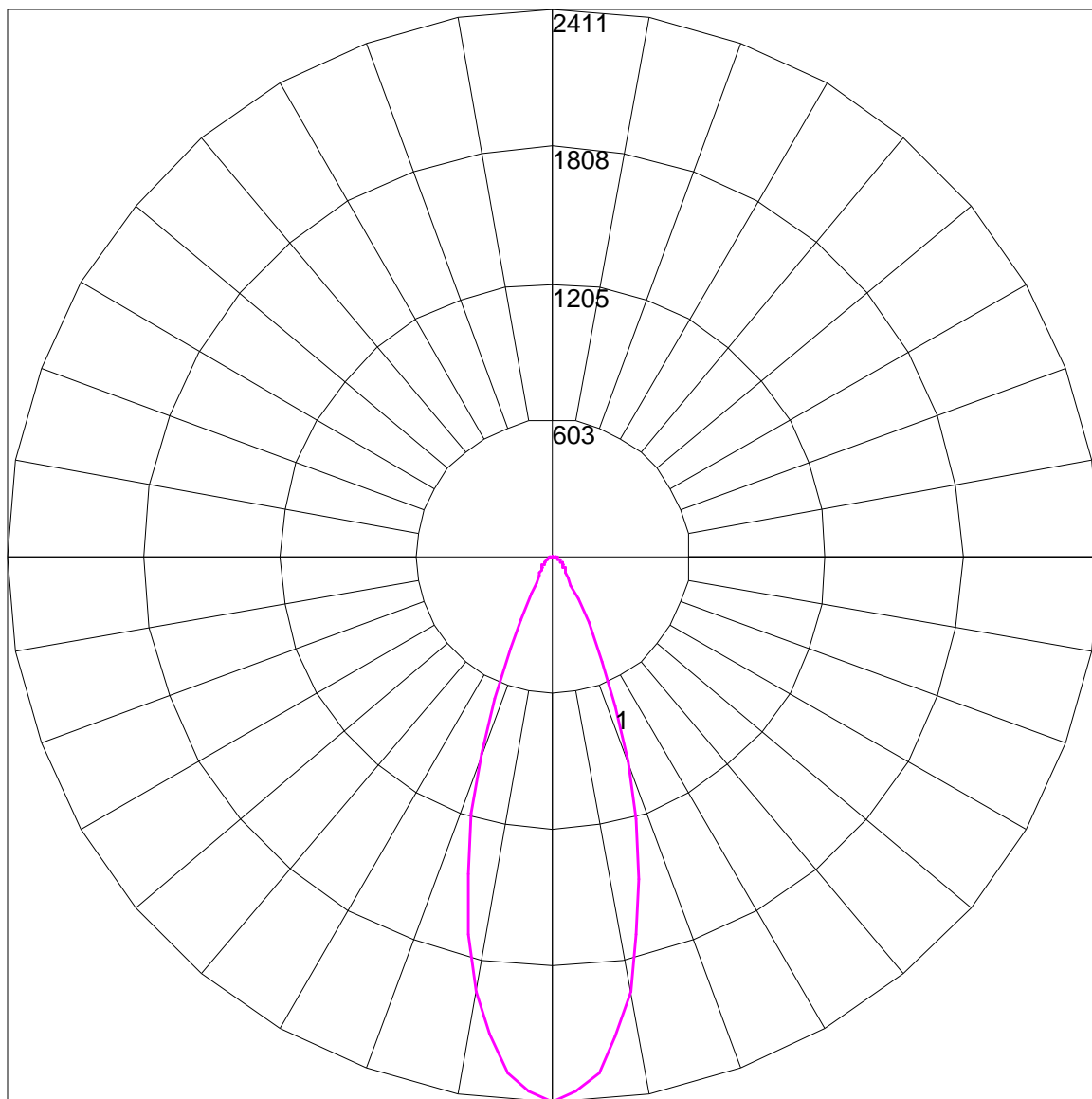
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_2 ~ SR2DMO-XT20L-E1-SDD2F-XXK-MDMWSO.IES

POLAR GRAPH



Maximum Candela = 2410.914 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)