

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWNL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_4
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT20L-E1-SDD2F-xxK-WD-MW-NL
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Wide Beam
 [OTHER] Matte White Trim, No 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	1343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.78
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_4 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39074	40983	39423
55	30500	28112	28581
65	17986	18531	19086
75	11993	9653	12871
85	10746	10653	9286

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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	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130
2.5	2125.658	2136.861	2121.924	2125.893	2117.264	2092.321	2101.697	2088.641	2103.997	2101.235
5.0	2072.770	2061.577	2051.010	2065.157	2059.130	2011.270	1997.028	2001.185	2020.965	2014.805
7.5	1980.501	1971.830	1940.060	1968.076	1953.881	1890.062	1882.163	1882.323	1922.123	1908.714
10.0	1877.131	1854.694	1820.974	1850.494	1839.777	1762.805	1752.188	1758.351	1812.259	1792.740
12.5	1763.247	1734.909	1696.772	1723.435	1713.820	1628.130	1627.053	1630.368	1686.347	1673.596
15.0	1628.491	1610.711	1579.056	1591.832	1571.863	1485.550	1508.270	1494.688	1550.842	1536.878
17.5	1476.423	1476.143	1464.824	1445.149	1411.173	1334.478	1384.755	1353.730	1380.036	1395.598
20.0	1289.021	1326.759	1337.068	1292.278	1222.839	1160.561	1255.884	1187.350	1190.664	1215.635
22.5	1076.000	1157.146	1203.156	1106.749	1006.158	965.147	1110.178	1006.031	976.199	1027.576
25.0	863.622	962.643	1043.409	909.872	800.113	773.875	948.014	815.609	750.565	825.666
27.5	651.643	769.375	873.450	721.356	603.486	585.966	772.794	620.484	579.955	621.502
30.0	496.418	577.459	692.000	535.216	455.972	443.571	586.232	471.121	429.842	482.667
32.5	372.317	426.745	506.788	411.871	346.513	333.475	432.360	341.746	307.876	351.365
35.0	255.965	314.916	369.505	303.082	242.001	234.162	302.971	238.078	194.893	244.789
37.5	143.218	215.334	245.243	207.161	140.836	141.516	207.163	143.791	132.825	140.187
40.0	98.217	125.728	166.860	113.604	94.332	95.934	132.967	100.413	83.907	103.746
42.5	79.675	81.574	98.586	87.427	79.502	75.183	90.626	72.925	72.392	69.942
45.0	71.655	70.254	75.155	70.306	72.295	66.697	66.366	64.965	68.463	65.784
47.5	67.167	63.227	59.262	65.185	68.972	63.873	55.769	61.925	63.759	61.545
50.0	60.441	58.862	54.261	61.237	60.059	56.220	51.763	53.970	58.931	53.978
52.5	53.104	51.506	50.617	51.899	48.743	46.697	44.403	45.022	49.770	46.369
55.0	45.369	42.542	41.817	42.264	42.515	38.574	35.656	38.709	40.114	38.155
57.5	37.547	36.602	32.583	37.627	38.112	30.899	30.419	32.808	35.686	30.439
60.0	30.674	32.064	28.151	33.057	31.749	26.439	26.410	27.948	31.649	27.264
62.5	23.965	26.481	23.925	27.522	24.786	22.849	22.957	23.201	25.597	23.930
65.0	19.713	20.493	20.310	22.107	20.919	18.544	19.664	19.571	19.511	19.553
67.5	15.761	16.174	16.704	18.235	17.796	14.090	16.779	16.013	15.175	15.373
70.0	13.736	12.310	13.149	14.233	14.191	11.988	13.959	12.392	11.491	11.851
72.5	11.360	10.081	9.711	9.823	10.838	9.808	10.740	9.429	10.502	9.130
75.0	8.050	7.947	6.479	7.593	8.639	6.857	7.988	7.892	8.469	7.270
77.5	5.568	5.924	5.106	6.636	6.203	5.290	5.912	5.728	5.708	5.699
80.0	3.957	4.288	3.885	4.279	4.179	3.928	4.421	4.107	3.938	4.115
82.5	3.265	2.996	2.682	3.729	3.194	2.121	2.825	3.289	2.970	3.062
85.0	2.429	2.243	2.408	2.035	2.099	2.193	1.616	2.026	1.789	2.605
87.5	1.726	1.633	1.971	1.891	1.685	1.780	1.988	1.812	1.834	2.015
90.0	1.174	0.766	1.525	0.545	1.371	1.748	1.043	1.946	1.190	1.334
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	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130	2141.130
2.5	2104.497	2095.006	2111.582	2131.474	2136.127	2136.457	2125.658
5.0	2015.957	2020.424	2043.215	2076.451	2066.860	2076.874	2072.770
7.5	1912.810	1911.298	1956.169	1985.931	1964.177	1988.567	1980.501
10.0	1794.172	1800.008	1860.138	1876.606	1847.609	1876.047	1877.131
12.5	1681.058	1686.210	1739.923	1759.603	1725.087	1755.392	1763.247
15.0	1573.077	1561.661	1609.917	1639.156	1611.366	1628.740	1628.491
17.5	1457.859	1426.049	1441.608	1502.909	1500.793	1486.517	1476.423
20.0	1336.839	1264.703	1259.932	1360.512	1374.852	1334.435	1289.021
22.5	1191.643	1080.495	1043.257	1182.363	1244.311	1153.789	1076.000
25.0	1029.511	886.558	816.592	992.703	1082.676	957.202	863.622
27.5	847.964	685.057	632.703	795.856	913.396	765.422	651.643
30.0	654.576	519.169	458.782	597.092	726.735	575.921	496.418
32.5	488.605	377.452	331.437	454.555	536.747	440.070	372.317
35.0	336.899	260.096	212.697	324.145	394.836	325.594	255.965
37.5	229.039	156.906	144.773	218.533	260.186	223.044	143.218
40.0	141.133	104.209	83.731	116.983	179.232	124.585	98.217
42.5	95.615	76.906	73.281	88.627	103.885	89.839	79.675
45.0	66.266	65.500	67.603	69.106	80.043	72.936	71.655
47.5	55.926	60.957	63.154	63.797	59.368	65.865	67.167
50.0	51.572	53.594	58.774	59.635	55.258	61.036	60.441
52.5	43.563	45.216	48.710	50.595	51.584	51.979	53.104
55.0	34.583	38.391	38.614	41.362	41.937	42.160	45.369
57.5	30.331	32.045	33.325	36.029	32.513	36.210	37.547
60.0	27.070	27.106	28.040	30.756	28.281	30.767	30.674
62.5	22.574	22.515	22.835	26.372	24.049	25.148	23.965
65.0	17.876	18.388	17.782	21.980	19.812	19.513	19.713

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	14.442	14.347	14.015	17.507	15.851	16.748	15.761
70.0	11.175	12.132	10.791	13.469	13.182	13.977	13.736
72.5	8.375	9.749	9.033	10.726	10.748	10.781	11.360
75.0	6.281	6.493	7.539	8.129	8.623	8.618	8.050
77.5	4.983	4.686	6.070	5.881	6.166	7.308	5.568
80.0	4.173	3.361	3.876	5.165	4.331	4.247	3.957
82.5	2.745	2.151	3.577	2.647	3.156	3.122	3.265
85.0	1.934	2.455	2.883	2.749	2.427	2.191	2.429
87.5	1.431	1.699	1.830	1.833	2.386	1.715	1.726
90.0	0.960	1.259	0.935	0.676	1.501	0.850	1.174
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	623.49	N.A.	46.40
0-30	1032.79	N.A.	76.90
0-40	1216.43	N.A.	90.60
0-60	1311.36	N.A.	97.70
0-80	1339.77	N.A.	99.80
0-90	1342.42	N.A.	100.00
10-90	1154.61	N.A.	86.00
20-40	592.94	N.A.	44.20
20-50	650.91	N.A.	48.50
40-70	114.91	N.A.	8.60
60-80	28.41	N.A.	2.10
70-80	8.43	N.A.	0.60
80-90	2.65	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	1342.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.80
10-20	435.69
20-30	409.30
30-40	183.64
40-50	57.97
50-60	36.96
60-70	19.98
70-80	8.43
80-90	2.65
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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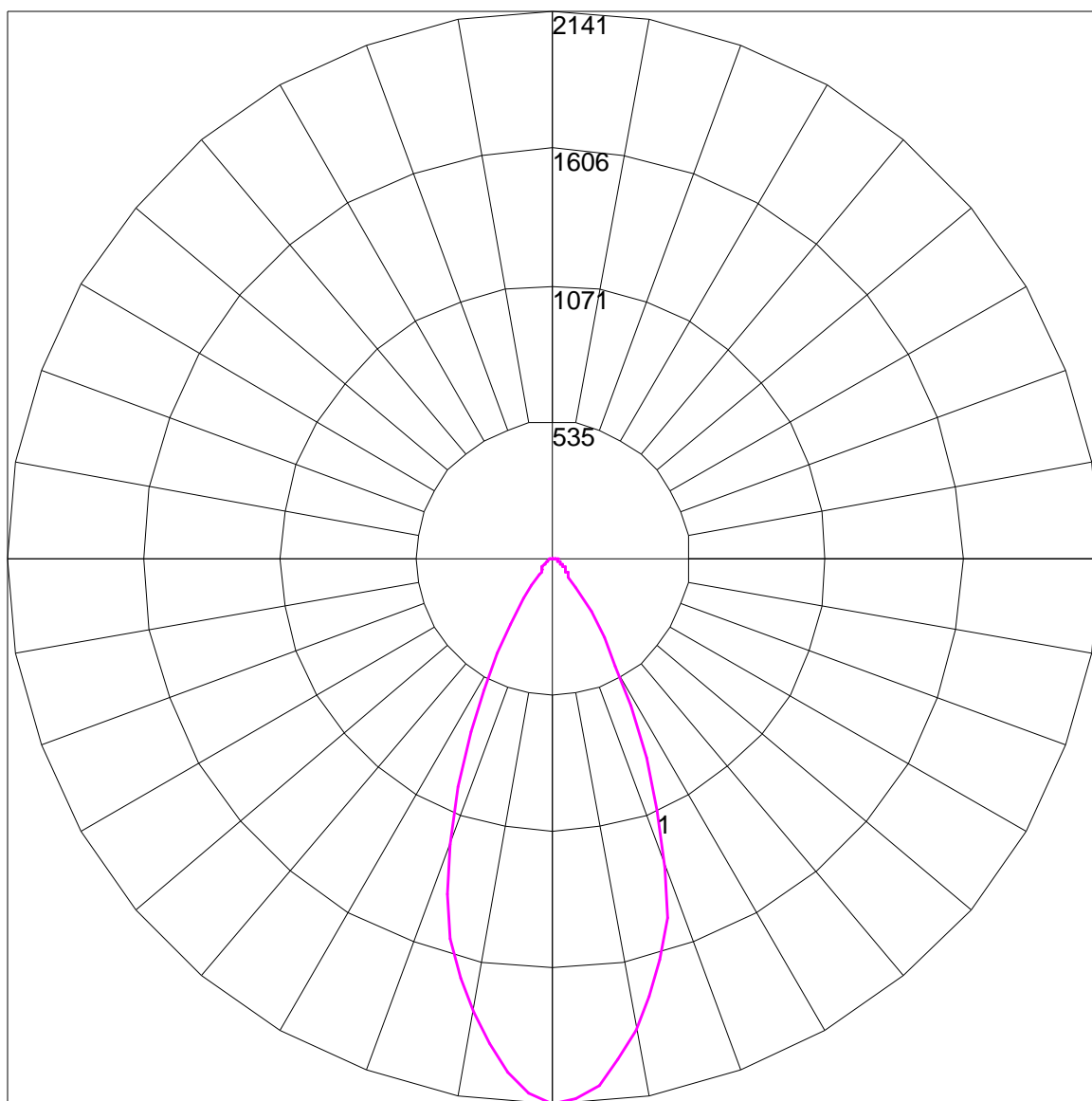
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	75	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	68	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_4 ~ SR2DMO-XT20L-E1-SDD2F-XXK-WDMWNL.IES

POLAR GRAPH



Maximum Candela = 2141.13 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)