

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_3 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWGL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_3_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT13L-E1-SDD2F-xxK-WD-MW-GL
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Wide Beam
 [OTHER] Matte White Trim, Clear Glass lens
 [OTHER] 42.6 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	765
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)	0.72
Spacing Criterion (90-270)	0.68
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_3 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25401	24521	25623
55	18386	17304	18403
65	11191	11387	10213
75	6360	5645	6578
85	7220	5990	5986

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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	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385
2.5	1249.759	1248.450	1241.698	1244.568	1239.534	1220.337	1219.316	1216.396	1227.011	1223.585
5.0	1225.196	1224.341	1210.117	1217.006	1201.000	1166.820	1165.163	1162.766	1179.859	1176.811
7.5	1167.016	1155.330	1134.529	1145.825	1132.069	1087.275	1083.926	1086.089	1115.529	1109.124
10.0	1104.822	1084.905	1059.038	1073.580	1059.651	1007.107	1003.468	1009.313	1048.933	1039.494
12.5	1033.848	1011.722	984.239	994.078	980.526	925.320	928.680	931.388	969.084	963.060
15.0	953.607	937.326	910.011	912.553	893.760	839.318	854.283	851.865	887.984	881.985
17.5	857.904	852.512	838.193	822.338	795.675	745.240	781.561	761.442	778.169	789.556
20.0	745.301	763.482	763.097	726.422	682.201	641.788	704.313	666.190	666.399	686.276
22.5	611.435	653.695	678.299	614.017	551.447	524.711	613.485	551.132	532.354	563.560
25.0	485.044	541.637	586.095	501.108	432.940	415.023	516.974	438.504	404.722	447.594
27.5	365.908	422.121	478.194	387.135	324.900	313.479	408.273	332.893	313.791	340.979
30.0	275.317	315.594	373.424	291.149	244.897	235.267	308.741	241.584	227.295	254.964
32.5	206.086	239.166	273.578	223.764	183.570	177.195	224.009	179.952	157.147	190.617
35.0	142.173	168.856	192.689	160.937	127.665	124.968	155.862	124.823	99.116	132.541
37.5	81.248	109.304	134.995	103.588	74.451	76.562	108.224	79.876	72.569	79.555
40.0	58.185	69.363	91.263	69.245	56.074	55.523	74.149	53.090	53.581	55.281
42.5	51.262	55.359	60.531	56.247	50.398	47.788	52.839	48.119	48.881	48.867
45.0	46.580	46.106	44.966	48.231	46.987	43.521	42.398	43.335	44.553	43.979
47.5	42.570	41.629	40.278	43.773	44.153	40.510	39.837	38.723	40.758	39.794
50.0	36.847	36.407	35.441	38.189	37.896	34.515	34.232	33.972	35.869	33.938
52.5	30.790	30.598	30.522	32.001	31.106	27.783	26.948	29.123	29.772	27.525
55.0	27.349	26.177	25.740	27.541	27.374	23.994	22.897	24.662	25.061	23.228
57.5	24.204	22.578	21.013	23.780	23.871	20.658	20.151	20.409	21.516	19.416
60.0	19.363	18.862	18.123	19.509	18.753	17.223	17.148	16.747	17.323	16.125
62.5	14.544	15.095	15.753	15.096	13.786	13.781	14.069	13.314	12.705	12.903
65.0	12.266	12.325	12.480	12.273	11.194	11.416	11.489	10.442	9.937	10.356
67.5	9.970	9.873	9.040	9.732	8.777	9.136	9.002	7.727	8.064	7.925
70.0	7.559	7.699	6.722	7.357	7.212	7.507	7.302	5.805	6.158	6.603
72.5	5.590	5.765	4.760	5.338	5.747	6.023	5.710	4.181	4.381	5.355
75.0	4.269	4.810	3.789	4.386	4.415	4.779	4.374	3.456	3.821	4.254
77.5	3.195	3.441	3.169	3.655	3.378	3.132	3.185	2.515	2.945	3.219
80.0	2.339	2.269	2.566	2.809	2.508	1.979	2.252	1.811	2.008	2.124
82.5	1.851	2.007	1.797	1.800	1.785	1.549	1.723	1.790	1.616	1.221
85.0	1.632	1.256	1.354	1.561	1.353	1.234	1.347	1.383	1.355	1.165
87.5	1.264	1.022	1.042	0.959	1.088	1.207	0.982	1.286	1.048	1.026
90.0	0.751	0.747	0.970	0.692	0.661	0.364	0.623	0.804	0.283	0.587
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	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385	1267.385
2.5	1229.275	1227.407	1241.996	1255.045	1252.696	1254.227	1249.759
5.0	1186.096	1184.241	1203.995	1233.191	1230.000	1235.934	1225.196
7.5	1113.761	1117.365	1149.640	1173.149	1158.670	1172.394	1167.016
10.0	1042.269	1050.193	1092.517	1109.727	1087.390	1106.729	1104.822
12.5	976.028	981.170	1019.492	1038.360	1016.397	1032.479	1033.848
15.0	909.589	908.601	945.147	966.234	945.813	954.757	953.607
17.5	842.379	822.031	838.105	881.135	876.810	867.480	857.904
20.0	768.560	727.272	729.073	792.665	803.452	772.275	745.301
22.5	676.974	609.983	591.348	678.486	718.530	660.788	611.435
25.0	577.743	493.165	457.530	562.993	624.456	545.743	485.044
27.5	463.140	377.283	352.212	441.678	512.469	425.261	365.908
30.0	355.456	279.164	252.689	330.858	403.179	325.244	275.317
32.5	258.142	207.775	178.681	252.367	297.888	248.904	206.086
35.0	179.798	143.543	114.400	178.856	212.195	179.346	142.173
37.5	122.994	87.586	79.349	116.268	148.531	115.933	81.248
40.0	82.174	57.422	53.717	71.619	100.129	77.880	58.185
42.5	55.567	49.960	48.308	56.525	64.973	57.250	51.262
45.0	42.583	43.957	43.720	46.287	47.163	47.187	46.580
47.5	38.780	38.956	40.479	42.171	40.917	42.546	42.570
50.0	33.782	33.318	35.571	36.969	35.459	37.141	36.847
52.5	28.172	27.353	28.600	30.723	30.395	31.440	30.790
55.0	23.320	22.868	23.584	25.668	24.684	26.472	27.349
57.5	18.752	18.933	20.409	21.494	18.733	21.698	24.204
60.0	15.551	15.926	16.742	17.928	15.959	18.366	19.363
62.5	12.704	13.164	12.713	14.706	13.994	15.278	14.544
65.0	10.785	10.185	10.169	11.738	11.257	11.844	12.266

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_3 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWGL.IES****CANDELA TABULATION - (Cont.)**

67.5	9.018	7.169	8.436	8.873	8.401	8.481	9.970
70.0	7.316	6.075	6.526	6.738	6.591	7.543	7.559
72.5	5.517	5.063	4.634	4.900	5.018	6.294	5.590
75.0	3.444	4.177	3.580	4.103	4.063	4.352	4.269
77.5	2.715	2.757	2.748	3.419	3.127	3.578	3.195
80.0	2.361	1.662	2.135	2.617	2.426	2.647	2.339
82.5	1.714	1.464	1.656	1.431	2.042	1.273	1.851
85.0	1.127	1.150	0.971	1.416	1.323	1.076	1.632
87.5	1.102	1.001	0.859	1.236	0.988	1.008	1.264
90.0	0.758	0.708	0.821	0.411	0.877	0.413	0.751
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	361.05	N.A.	47.20
0-30	588.70	N.A.	76.90
0-40	688.18	N.A.	89.90
0-60	747.62	N.A.	97.70
0-80	763.52	N.A.	99.80
0-90	765.02	N.A.	100.00
10-90	655.17	N.A.	85.60
20-40	327.13	N.A.	42.80
20-50	363.79	N.A.	47.50
40-70	70.82	N.A.	9.30
60-80	15.90	N.A.	2.10
70-80	4.51	N.A.	0.60
80-90	1.50	N.A.	0.20
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	765.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.84
10-20	251.21
20-30	227.65
30-40	99.48
40-50	36.65
50-60	22.78
60-70	11.39
70-80	4.51
80-90	1.50
90-100	0.09
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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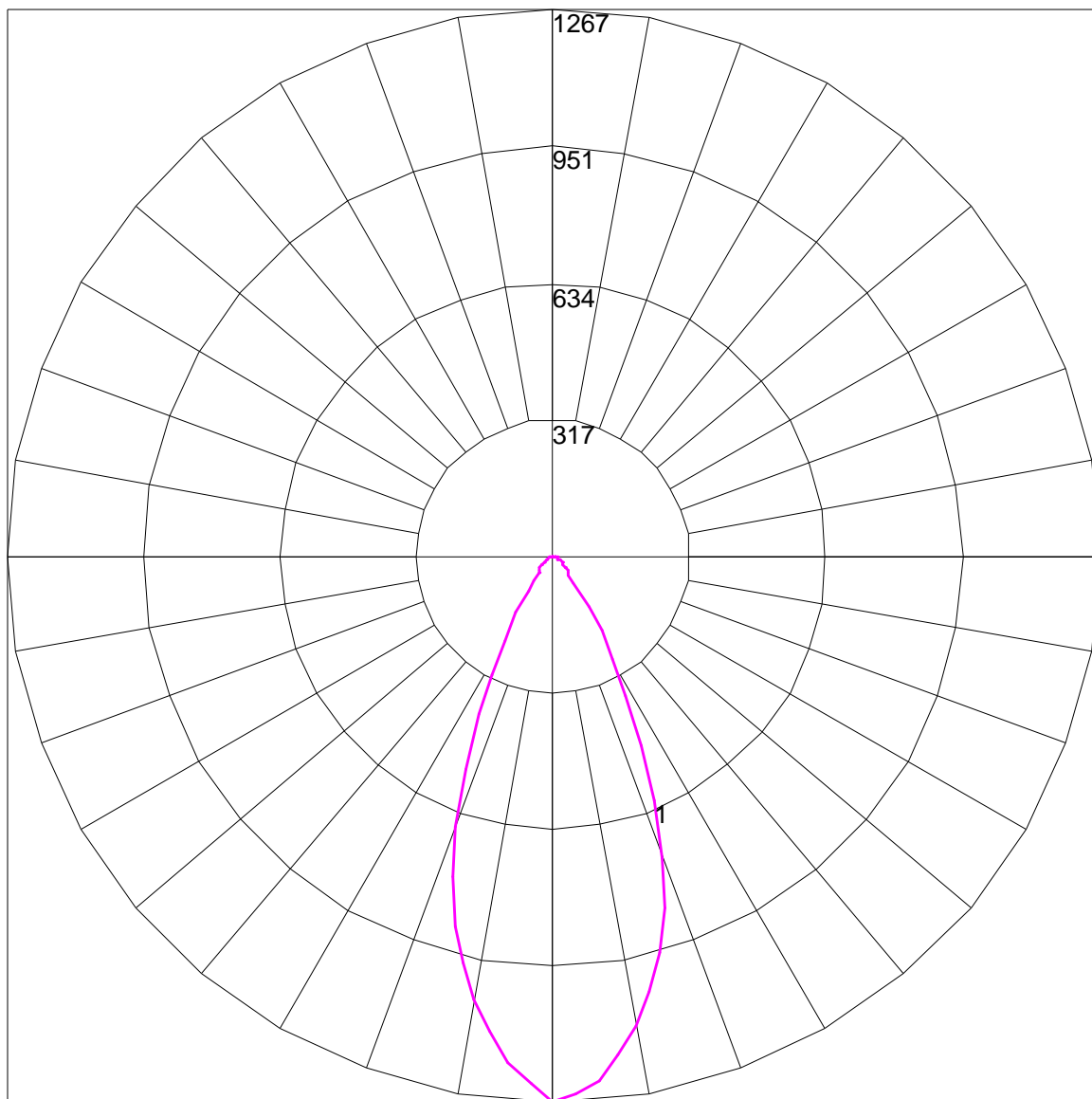
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	104	105	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	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	75	70	88	80	74	70	78	73	70	77	73	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	66	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	62	59	66	62	59	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_3 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWGL.IES

POLAR GRAPH



Maximum Candela = 1267.385 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)