

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_5_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT13L-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, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	15
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-XT13L-E1-SDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29301	31674	28436
55	22588	20397	23022
65	12070	13475	12234
75	7166	7071	7527
85	6650	6866	6570

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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	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200
2.5	1203.340	1202.505	1197.789	1200.057	1198.358	1183.222	1185.803	1184.248	1191.581	1190.090
5.0	1182.865	1186.429	1175.780	1176.623	1170.351	1145.303	1151.103	1145.874	1160.798	1160.132
7.5	1134.199	1131.788	1118.669	1122.259	1114.757	1083.230	1087.096	1088.652	1104.209	1102.745
10.0	1078.340	1075.607	1059.642	1063.793	1052.134	1016.381	1022.276	1022.958	1044.448	1041.675
12.5	1006.225	1003.565	986.999	991.321	976.396	938.179	948.130	947.246	965.793	966.872
15.0	926.779	929.919	913.288	914.725	893.310	855.102	873.186	865.293	885.765	887.508
17.5	834.729	844.332	835.067	828.256	799.802	763.387	792.293	777.645	782.313	796.183
20.0	729.469	754.978	754.534	733.953	691.684	661.601	709.385	677.041	677.194	696.643
22.5	607.106	648.394	667.402	625.884	567.618	546.400	617.483	567.467	554.754	581.451
25.0	491.294	541.255	575.233	516.179	453.884	438.191	522.889	461.061	436.443	470.794
27.5	381.933	432.430	472.391	404.249	348.733	337.265	420.112	356.321	340.501	366.700
30.0	290.805	331.843	373.290	309.782	265.565	255.672	324.318	273.018	251.124	277.555
32.5	213.719	249.417	280.072	233.357	196.407	189.402	243.669	198.050	185.455	205.048
35.0	154.592	179.123	202.947	171.718	142.925	138.668	175.610	146.357	128.860	147.958
37.5	105.877	128.912	145.236	121.866	96.980	97.220	128.086	100.922	95.030	103.929
40.0	79.483	91.597	103.050	88.964	73.969	73.355	91.538	78.046	69.347	76.543
42.5	62.765	70.387	75.321	66.410	58.874	57.502	68.698	59.177	58.592	60.141
45.0	53.733	55.905	58.085	54.727	52.146	49.362	53.184	50.608	50.223	50.273
47.5	47.099	47.908	48.266	47.950	47.451	43.722	44.630	42.968	45.229	43.615
50.0	42.342	42.028	40.942	42.719	42.639	39.259	38.018	38.279	40.614	38.689
52.5	37.968	37.723	34.959	37.994	37.808	35.051	32.849	33.675	36.406	34.374
55.0	33.600	32.649	30.341	33.836	34.245	30.679	28.894	29.899	31.325	30.176
57.5	29.232	27.148	26.268	29.806	30.755	26.287	25.616	25.931	25.520	26.006
60.0	22.771	22.795	22.026	23.943	23.590	20.530	21.645	20.481	20.696	20.707
62.5	16.315	18.929	17.737	17.844	16.697	14.763	17.391	15.619	16.498	15.235
65.0	13.229	14.886	14.769	14.357	13.409	12.412	13.717	13.456	13.290	12.380
67.5	10.271	10.793	12.044	11.116	10.359	10.103	10.215	11.141	10.547	9.766
70.0	8.124	8.237	8.964	9.283	8.390	8.066	8.195	8.440	7.990	8.144
72.5	6.257	6.024	6.267	7.511	6.603	6.347	6.367	6.157	5.603	6.451
75.0	4.810	4.591	4.746	5.858	5.052	5.117	4.675	4.241	4.286	4.610
77.5	4.090	3.551	3.549	4.237	3.779	3.728	3.369	3.494	3.390	3.625
80.0	3.217	2.857	2.710	3.113	2.849	2.497	2.541	2.867	2.734	2.699
82.5	2.135	2.351	2.241	2.416	2.155	1.716	2.163	2.170	1.912	1.716
85.0	1.503	1.303	1.552	1.454	1.485	1.449	1.081	1.461	1.283	1.381
87.5	1.015	1.176	0.983	1.293	1.116	0.810	0.976	1.438	1.152	1.228
90.0	0.772	0.848	0.733	0.654	0.846	0.734	0.976	0.864	0.238	1.050
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	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200	1215.200
2.5	1192.409	1191.916	1197.607	1205.974	1205.766	1206.377	1203.340
5.0	1165.449	1161.861	1169.700	1190.556	1188.700	1187.819	1182.865
7.5	1109.925	1106.535	1119.815	1142.672	1137.137	1142.990	1134.199
10.0	1052.638	1049.914	1065.998	1091.224	1082.230	1088.708	1078.340
12.5	984.043	979.939	994.534	1024.198	1014.583	1018.859	1006.225
15.0	913.927	908.146	921.458	956.074	944.586	945.201	926.779
17.5	837.832	819.939	818.973	872.338	868.428	858.596	834.729
20.0	758.127	727.358	714.788	785.914	788.465	770.083	729.469
22.5	668.534	612.540	589.200	673.837	701.252	658.694	607.106
25.0	572.697	499.277	466.169	561.587	607.466	545.655	491.294
27.5	464.303	391.253	363.820	448.445	504.028	438.970	381.933
30.0	362.048	292.726	266.667	342.228	402.521	334.226	290.805
32.5	268.994	216.681	194.086	259.069	303.162	257.314	213.719
35.0	192.922	151.782	130.289	184.774	222.931	184.274	154.592
37.5	136.408	106.870	93.911	131.972	159.138	137.195	105.877
40.0	96.056	74.847	66.035	90.567	113.645	95.176	79.483
42.5	70.077	60.182	57.334	69.417	80.231	73.664	62.765
45.0	53.732	49.888	50.049	54.037	60.856	55.903	53.733
47.5	43.881	44.069	45.155	46.478	48.381	48.684	47.099
50.0	36.790	38.399	39.986	39.806	40.654	42.102	42.342
52.5	31.132	32.850	34.464	34.059	34.670	36.833	37.968
55.0	26.656	28.172	29.401	29.888	30.280	31.962	33.600
57.5	22.625	24.019	24.793	26.967	26.291	27.701	29.232
60.0	19.456	20.020	19.973	22.835	22.236	23.413	22.771
62.5	16.509	16.091	14.992	17.966	18.171	19.092	16.315
65.0	13.348	12.612	11.929	14.282	13.744	15.304	13.229

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	10.152	9.279	9.949	11.137	9.431	11.992	10.271
70.0	8.351	7.227	7.972	8.656	7.862	9.120	8.124
72.5	6.698	5.480	6.027	6.438	6.463	6.461	6.257
75.0	5.394	4.406	4.496	5.175	5.422	5.162	4.810
77.5	3.814	3.617	3.693	4.038	3.724	3.785	4.090
80.0	2.472	2.905	3.274	2.987	2.443	2.469	3.217
82.5	1.808	2.036	2.151	2.003	1.966	2.185	2.135
85.0	1.401	1.400	1.447	1.600	1.410	1.572	1.503
87.5	1.050	1.071	1.102	0.904	1.137	1.291	1.015
90.0	1.136	1.020	0.923	0.252	0.748	0.292	0.772
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	358.55	N.A.	45.30
0-30	590.15	N.A.	74.60
0-40	699.26	N.A.	88.40
0-60	770.38	N.A.	97.30
0-80	789.58	N.A.	99.80
0-90	791.31	N.A.	100.00
10-90	683.50	N.A.	86.40
20-40	340.71	N.A.	43.10
20-50	384.30	N.A.	48.60
40-70	84.93	N.A.	10.70
60-80	19.20	N.A.	2.40
70-80	5.39	N.A.	0.70
80-90	1.74	N.A.	0.20
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	791.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.81
10-20	250.74
20-30	231.60
30-40	109.11
40-50	43.59
50-60	27.53
60-70	13.80
70-80	5.39
80-90	1.74
90-100	0.10
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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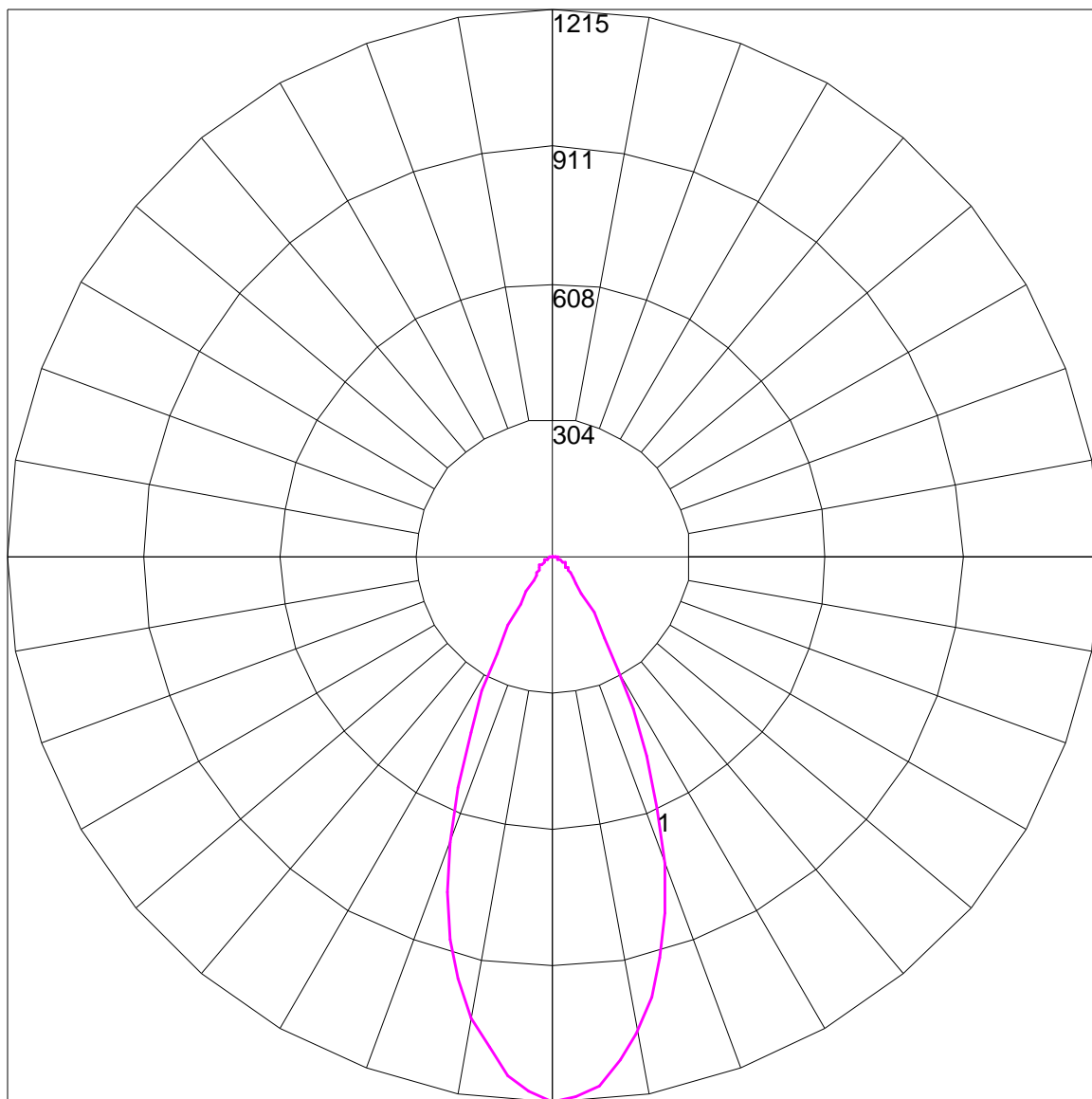
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	87
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	80	86	82	79	84	81	78	83	79	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70
6	88	79	74	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	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	58	65	61	57	64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT13L-E1-SDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 1215.2 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)