

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_1 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00649_1_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT10L-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	566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	11.1
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-XT10L-E1-SDD2F-XXK-MDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17557	13171	17490
55	12477	8656	12780
65	6785	6873	6525
75	3503	3812	3927
85	4552	4513	4154

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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	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321
2.5	1308.897	1308.820	1311.049	1309.351	1308.497	1294.731	1296.253	1300.010	1301.986	1300.100
5.0	1277.775	1290.468	1276.433	1286.605	1279.269	1251.593	1266.961	1252.465	1270.198	1265.702
7.5	1213.273	1220.204	1223.330	1221.756	1215.311	1165.494	1174.049	1178.790	1191.274	1184.156
10.0	1114.996	1142.182	1114.210	1135.578	1119.819	1051.652	1075.587	1059.882	1094.077	1081.111
12.5	971.268	995.622	976.364	997.969	973.668	891.878	914.389	911.332	944.727	921.947
15.0	822.869	842.632	829.626	839.871	822.113	738.961	752.230	762.135	779.663	766.346
17.5	669.363	697.945	679.171	692.877	663.335	595.212	629.317	612.591	630.624	618.030
20.0	528.199	553.942	563.550	549.402	519.971	466.224	509.230	487.079	485.192	481.681
22.5	398.341	438.548	459.133	430.657	393.356	353.505	428.640	371.879	359.615	364.880
25.0	281.604	324.480	374.768	317.685	278.996	254.889	348.163	275.174	237.068	259.935
27.5	174.634	230.756	295.279	225.919	175.478	169.110	268.519	184.597	157.641	171.098
30.0	109.559	142.519	218.449	137.545	109.436	110.422	191.871	125.021	82.381	107.438
32.5	69.658	97.546	142.080	95.050	71.108	71.768	130.286	73.422	63.472	71.573
35.0	51.052	58.176	96.981	57.295	52.126	50.928	76.645	54.116	46.899	50.503
37.5	42.986	48.136	55.217	46.968	44.691	40.883	52.230	40.657	42.889	42.923
40.0	38.570	39.330	41.720	37.882	39.581	34.846	32.629	34.669	38.904	37.865
42.5	35.570	35.220	29.667	34.094	35.598	30.779	26.373	29.528	35.329	34.704
45.0	32.197	30.728	24.154	30.257	32.074	27.592	21.412	27.224	31.794	30.393
47.5	28.711	25.144	18.807	25.537	28.726	24.745	19.291	25.094	28.585	25.385
50.0	25.019	20.431	16.473	20.984	25.593	22.389	17.148	22.191	25.395	20.994
52.5	21.281	17.718	14.231	17.863	22.522	20.183	14.965	19.298	22.311	16.905
55.0	18.560	15.437	12.876	14.991	19.011	17.189	13.168	16.747	19.085	14.663
57.5	15.996	13.941	11.571	13.505	15.406	14.018	11.922	14.168	15.312	13.146
60.0	12.635	12.095	10.564	11.863	12.040	11.247	10.754	11.299	11.814	10.612
62.5	9.199	9.738	9.390	9.604	8.710	8.535	9.680	8.550	9.108	7.772
65.0	7.436	7.612	7.533	7.527	7.151	6.699	8.003	6.538	6.821	6.393
67.5	5.781	5.762	5.855	5.963	5.747	4.964	5.754	4.809	5.445	5.344
70.0	4.684	4.427	4.617	4.568	4.486	3.929	4.406	3.976	4.179	4.195
72.5	3.552	3.431	3.525	3.409	3.382	3.075	3.532	3.321	3.039	3.114
75.0	2.351	2.400	2.559	2.494	2.636	2.642	2.580	2.849	2.312	2.300
77.5	1.831	1.881	2.160	1.797	1.808	2.038	1.810	1.937	1.770	1.687
80.0	1.501	1.965	1.831	1.466	1.226	1.463	1.309	1.300	1.407	1.245
82.5	1.258	1.018	1.447	1.113	1.066	0.986	1.122	1.024	0.855	0.945
85.0	1.029	0.904	1.020	0.959	0.939	0.699	0.921	0.871	0.959	0.662
87.5	0.647	0.701	0.651	0.735	0.808	0.888	0.823	0.833	0.894	0.705
90.0	0.414	0.303	0.578	0.190	0.534	0.557	0.252	0.596	0.315	0.539
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	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321	1318.321
2.5	1304.709	1302.206	1301.735	1308.280	1306.610	1308.991	1308.897
5.0	1270.097	1260.231	1270.843	1288.363	1282.111	1280.764	1277.775
7.5	1197.500	1183.141	1186.341	1218.677	1206.504	1215.235	1213.273
10.0	1084.721	1069.308	1085.216	1134.162	1113.483	1118.291	1114.996
12.5	944.858	916.182	936.447	995.150	960.014	984.905	971.268
15.0	781.676	765.663	776.839	843.743	811.704	826.632	822.869
17.5	644.932	617.448	633.133	701.670	677.241	683.074	669.363
20.0	526.661	488.384	491.960	561.040	556.793	547.846	528.199
22.5	431.543	373.256	366.132	443.649	465.748	428.067	398.341
25.0	349.852	273.228	241.815	328.449	378.424	315.234	281.604
27.5	269.164	182.062	161.152	237.912	297.420	224.127	174.634
30.0	188.938	120.708	82.582	148.935	220.447	140.606	109.559
32.5	128.763	73.746	63.582	103.655	149.077	94.502	69.658
35.0	75.926	52.072	45.417	60.327	94.270	58.618	51.052
37.5	52.417	39.951	40.988	47.149	58.159	46.210	42.986
40.0	37.186	34.511	36.643	34.880	35.938	38.381	38.570
42.5	29.996	30.986	32.981	30.059	26.850	32.825	35.570
45.0	24.438	26.765	29.394	25.929	21.281	27.567	32.197
47.5	20.507	22.391	26.224	25.424	18.418	25.402	28.711
50.0	16.800	19.125	23.010	24.317	16.380	23.462	25.019
52.5	14.125	16.020	19.629	20.858	14.853	20.597	21.281
55.0	11.532	14.325	16.361	17.474	13.444	17.720	18.560
57.5	10.784	12.752	13.427	14.304	12.095	14.930	15.996
60.0	10.050	10.443	10.673	11.486	10.969	12.145	12.635
62.5	8.185	8.124	8.334	9.462	9.933	9.424	9.199
65.0	6.363	6.504	6.316	7.555	8.304	6.936	7.436

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_1 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	4.994	4.929	4.868	5.858	6.494	5.815	5.781
70.0	3.805	3.665	3.694	4.437	4.692	4.618	4.684
72.5	3.116	2.644	2.782	3.279	3.070	3.251	3.552
75.0	2.405	2.006	2.167	2.317	2.305	2.338	2.351
77.5	1.743	1.357	1.731	1.606	1.842	1.725	1.831
80.0	1.458	1.049	1.509	1.309	1.627	1.382	1.501
82.5	1.164	1.060	0.847	1.240	1.514	1.147	1.258
85.0	0.819	0.953	0.726	0.953	0.892	1.078	1.029
87.5	0.929	0.783	0.675	0.950	0.750	0.699	0.647
90.0	0.329	0.591	0.704	0.218	0.688	0.292	0.414
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	334.98	N.A.	59.20
0-30	474.80	N.A.	83.90
0-40	519.10	N.A.	91.70
0-60	555.09	N.A.	98.10
0-80	565.05	N.A.	99.80
0-90	566.07	N.A.	100.00
10-90	450.27	N.A.	79.50
20-40	184.13	N.A.	32.50
20-50	205.85	N.A.	36.40
40-70	43.24	N.A.	7.60
60-80	9.96	N.A.	1.80
70-80	2.71	N.A.	0.50
80-90	1.02	N.A.	0.20
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	566.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.79
10-20	219.18
20-30	139.82
30-40	44.31
40-50	21.72
50-60	14.26
60-70	7.25
70-80	2.71
80-90	1.02
90-100	0.06
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

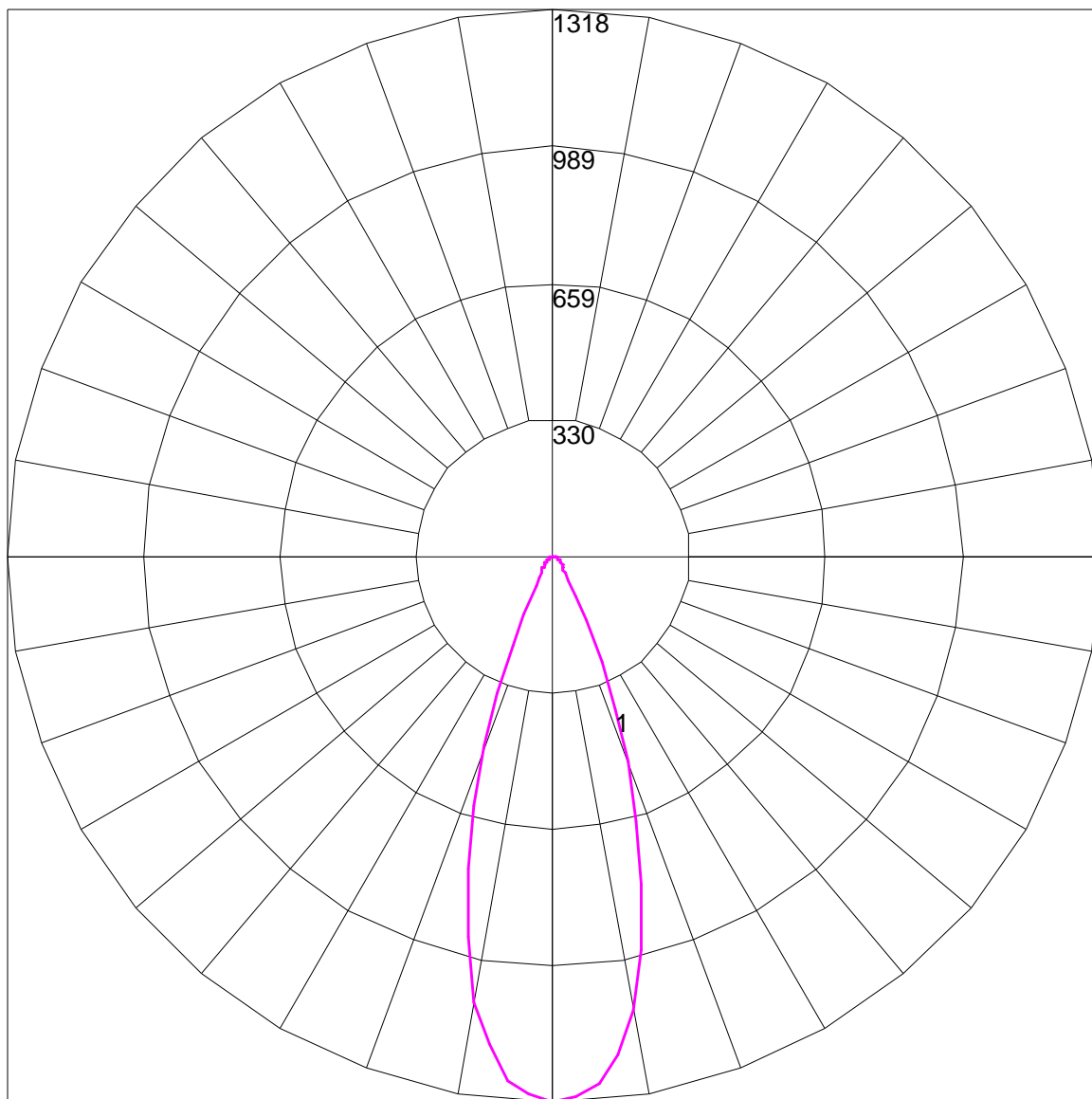
Effective Floor Cavity Reflectance 0.20

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	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	90	95	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	81	78	83	80	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-XT10L-E1-SDD2F-XXK-MDMWNL.IES

POLAR GRAPH



Maximum Candela = 1318.321 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)