

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT10L-E1-SDD2F-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00649_5_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT10L-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	587
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	11.1
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-XT10L-E1-SDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21750	23512	21108
55	16768	15141	17089
65	8960	10003	9082
75	5319	5249	5587
85	4937	5097	4875

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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	902.052	902.052	902.052	902.052	902.052	902.052	902.052	902.052	902.052	902.052
2.5	893.249	892.629	889.128	890.812	889.550	878.315	880.231	879.076	884.520	883.413
5.0	878.050	880.695	872.791	873.417	868.761	850.167	854.473	850.591	861.669	861.175
7.5	841.924	840.135	830.397	833.061	827.493	804.090	806.960	808.115	819.663	818.576
10.0	800.460	798.431	786.581	789.661	781.007	754.467	758.843	759.349	775.302	773.243
12.5	746.928	744.954	732.657	735.865	724.786	696.417	703.804	703.148	716.915	717.717
15.0	687.955	690.286	677.940	679.007	663.111	634.749	648.173	642.314	657.510	658.804
17.5	619.626	626.754	619.877	614.821	593.699	566.668	588.125	577.252	580.717	591.013
20.0	541.490	560.426	560.097	544.819	513.443	491.112	526.582	502.572	502.686	517.124
22.5	450.659	481.308	495.417	464.598	421.347	405.597	458.362	421.235	411.798	431.616
25.0	364.691	401.778	427.000	383.163	336.922	325.273	388.145	342.249	323.975	349.474
27.5	283.512	320.996	350.659	300.077	258.868	250.354	311.852	264.500	252.756	272.204
30.0	215.867	246.329	277.096	229.953	197.131	189.788	240.744	202.664	186.411	206.031
32.5	158.646	185.144	207.900	173.223	145.794	140.595	180.877	147.014	137.665	152.208
35.0	114.755	132.964	150.649	127.467	106.094	102.935	130.357	108.642	95.654	109.830
37.5	78.593	95.692	107.810	90.462	71.989	72.167	95.079	74.915	70.541	77.147
40.0	59.001	67.993	76.495	66.039	54.908	54.452	67.950	57.934	51.476	56.818
42.5	46.591	52.248	55.912	49.297	43.703	42.684	50.995	43.928	43.494	44.643
45.0	39.886	41.499	43.117	40.625	38.708	36.642	39.479	37.566	37.281	37.318
47.5	34.962	35.562	35.828	35.594	35.223	32.455	33.129	31.895	33.574	32.376
50.0	31.431	31.198	30.391	31.711	31.651	29.143	28.221	28.415	30.148	28.719
52.5	28.184	28.002	25.950	28.203	28.065	26.018	24.384	24.997	27.024	25.516
55.0	24.942	24.236	22.523	25.117	25.420	22.774	21.448	22.195	23.253	22.400
57.5	21.699	20.152	19.499	22.125	22.829	19.513	19.015	19.249	18.943	19.305
60.0	16.903	16.921	16.350	17.773	17.511	15.240	16.067	15.204	15.363	15.371
62.5	12.111	14.051	13.166	13.246	12.394	10.959	12.909	11.594	12.246	11.309
65.0	9.820	11.050	10.963	10.657	9.954	9.214	10.182	9.989	9.865	9.190
67.5	7.624	8.012	8.941	8.251	7.690	7.499	7.582	8.270	7.829	7.250
70.0	6.031	6.115	6.654	6.891	6.228	5.988	6.083	6.265	5.931	6.045
72.5	4.645	4.471	4.652	5.575	4.901	4.711	4.726	4.571	4.159	4.789
75.0	3.570	3.408	3.523	4.349	3.750	3.798	3.470	3.148	3.182	3.422
77.5	3.036	2.636	2.634	3.145	2.805	2.768	2.501	2.593	2.517	2.691
80.0	2.388	2.121	2.012	2.311	2.115	1.853	1.886	2.128	2.029	2.003
82.5	1.585	1.745	1.664	1.793	1.599	1.274	1.606	1.611	1.419	1.274
85.0	1.116	0.967	1.152	1.079	1.102	1.076	0.802	1.084	0.952	1.025
87.5	0.753	0.873	0.730	0.960	0.828	0.601	0.724	1.068	0.855	0.911
90.0	0.573	0.629	0.544	0.485	0.628	0.545	0.725	0.642	0.177	0.779
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	902.052	902.052	902.052	902.052	902.052	902.052	902.052
2.5	885.134	884.768	888.993	895.203	895.049	895.503	893.249
5.0	865.122	862.458	868.277	883.759	882.382	881.727	878.050
7.5	823.906	821.390	831.248	848.214	844.106	848.450	841.924
10.0	781.381	779.359	791.299	810.024	803.348	808.157	800.460
12.5	730.463	727.416	738.251	760.270	753.133	756.307	746.928
15.0	678.415	674.123	684.005	709.701	701.174	701.630	687.955
17.5	621.929	608.647	607.930	647.543	644.641	637.342	619.626
20.0	562.763	539.924	530.593	583.390	585.284	571.638	541.490
22.5	496.258	454.694	437.368	500.195	520.545	488.953	450.659
25.0	425.117	370.617	346.041	416.870	450.927	405.044	364.691
27.5	344.656	290.430	270.066	332.884	374.144	325.851	283.512
30.0	268.751	217.292	197.949	254.038	298.794	248.099	215.867
32.5	199.676	160.844	144.072	192.309	225.039	191.006	158.646
35.0	143.207	112.669	96.715	137.159	165.484	136.788	114.755
37.5	101.256	79.331	69.711	97.964	118.130	101.841	78.593
40.0	71.303	55.560	49.018	67.229	84.360	70.650	59.001
42.5	52.019	44.673	42.559	51.529	59.556	54.681	46.591
45.0	39.886	37.032	37.152	40.112	45.174	41.497	39.886
47.5	32.573	32.713	33.519	34.501	35.914	36.139	34.962
50.0	27.309	28.504	29.682	29.548	30.177	31.253	31.431
52.5	23.110	24.385	25.583	25.283	25.736	27.341	28.184
55.0	19.787	20.912	21.824	22.186	22.477	23.725	24.942
57.5	16.794	17.829	18.404	20.018	19.516	20.563	21.699
60.0	14.442	14.861	14.826	16.951	16.506	17.380	16.903
62.5	12.255	11.945	11.128	13.336	13.488	14.172	12.111
65.0	9.909	9.362	8.855	10.602	10.202	11.360	9.820

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67.5	7.536	6.888	7.385	8.267	7.001	8.902	7.624
70.0	6.199	5.364	5.917	6.425	5.836	6.770	6.031
72.5	4.972	4.068	4.474	4.779	4.797	4.796	4.645
75.0	4.004	3.271	3.337	3.842	4.025	3.832	3.570
77.5	2.831	2.685	2.741	2.998	2.765	2.810	3.036
80.0	1.835	2.157	2.430	2.218	1.814	1.833	2.388
82.5	1.342	1.511	1.597	1.487	1.459	1.622	1.585
85.0	1.040	1.039	1.074	1.187	1.047	1.167	1.116
87.5	0.780	0.795	0.818	0.671	0.844	0.958	0.753
90.0	0.843	0.758	0.685	0.187	0.555	0.217	0.573
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	266.15	N.A.	45.30
0-30	438.07	N.A.	74.60
0-40	519.07	N.A.	88.40
0-60	571.86	N.A.	97.30
0-80	586.11	N.A.	99.80
0-90	587.40	N.A.	100.00
10-90	507.37	N.A.	86.40
20-40	252.91	N.A.	43.10
20-50	285.27	N.A.	48.60
40-70	63.04	N.A.	10.70
60-80	14.25	N.A.	2.40
70-80	4.00	N.A.	0.70
80-90	1.29	N.A.	0.20
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	587.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.03
10-20	186.12
20-30	171.92
30-40	80.99
40-50	32.36
50-60	20.44
60-70	10.25
70-80	4.00
80-90	1.29
90-100	0.08
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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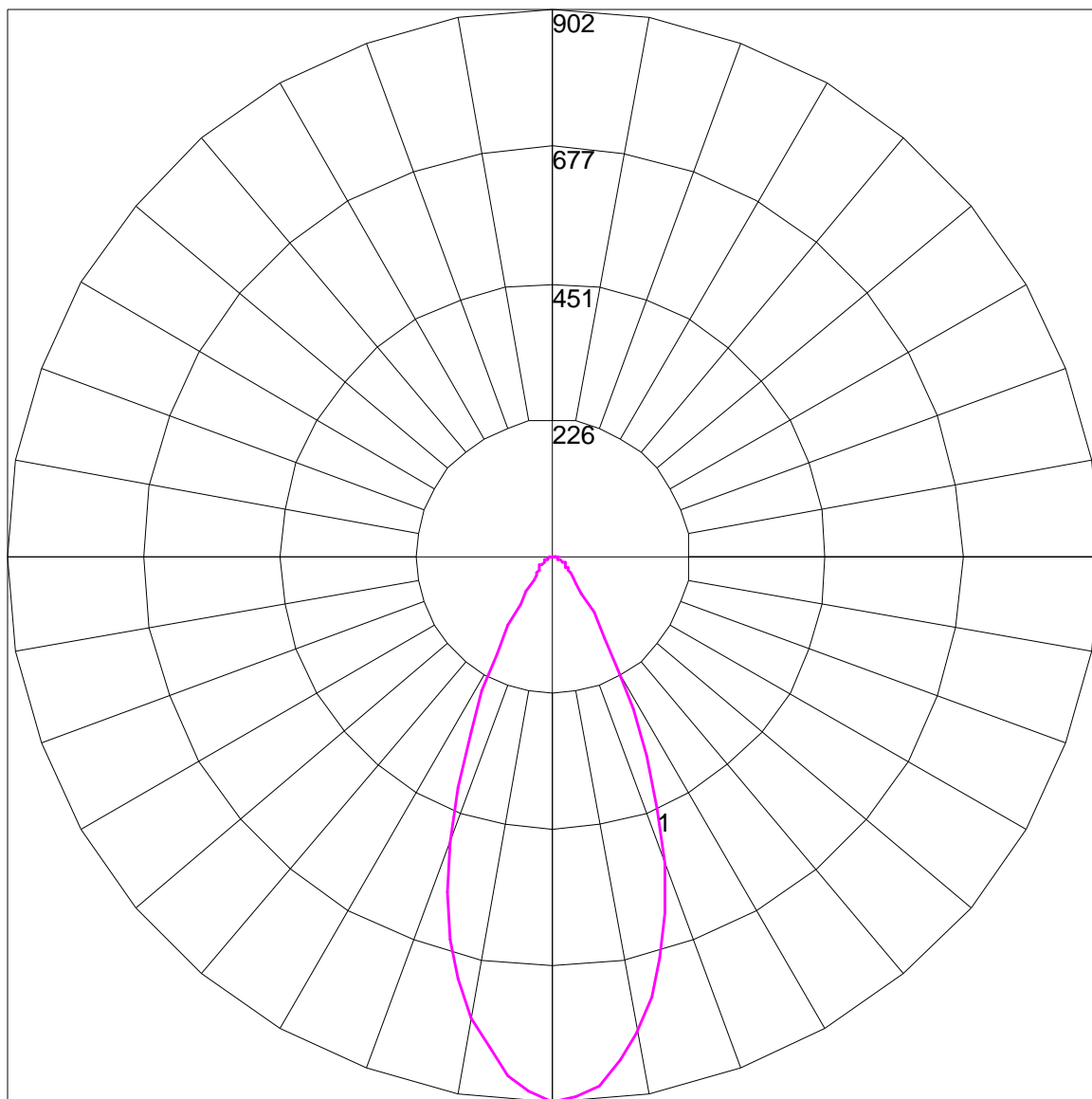
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	106	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	96	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

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PHOTOMETRIC FILENAME : SP-00649_5 ~ SR2DMO-XT10L-E1-SDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 902.052 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)