

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

IESNA:LM-63-2002
 [TEST] SP-00649_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT10L-E1-SDD2F-xxK-MD-MW-GL
 [LUMINAIRE] Nom. 2" Square Trim Downlight, Medium Beam
 [OTHER] Matte White Trim, Clear Glass lens
 [OTHER] 34.4 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	501
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.60
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 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15788	13712	15526
55	10347	9016	12529
65	4897	5893	5391
75	3215	3343	3222
85	3305	3716	3809

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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	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092
2.5	1194.930	1184.825	1191.210	1184.791	1180.481	1185.198	1190.033	1178.518	1189.108	1182.400
5.0	1159.870	1160.478	1157.471	1158.357	1152.215	1154.421	1151.936	1156.069	1151.696	1160.882
7.5	1112.258	1092.072	1101.196	1086.911	1081.121	1083.759	1089.849	1072.430	1089.688	1086.169
10.0	1006.580	1006.690	999.718	998.183	993.886	989.150	980.145	985.913	988.310	1006.158
12.5	882.456	866.820	865.314	863.525	854.200	858.330	857.130	845.367	866.972	863.856
15.0	733.609	726.671	729.361	715.450	716.150	710.171	712.979	706.296	719.802	719.163
17.5	578.838	585.811	592.498	586.543	582.314	582.305	587.196	580.228	582.941	586.686
20.0	441.772	454.974	485.805	461.794	454.159	462.314	485.699	458.339	456.928	455.532
22.5	307.634	344.198	393.224	353.849	337.489	356.636	399.658	360.184	338.225	346.506
25.0	208.095	244.762	314.617	248.424	232.605	255.190	330.227	266.029	225.963	241.049
27.5	112.151	163.753	241.296	174.230	146.762	179.128	258.945	188.121	145.215	165.138
30.0	79.209	102.763	174.241	102.717	86.626	108.653	186.020	120.049	87.021	96.764
32.5	49.448	68.443	108.986	74.353	61.053	76.744	127.233	81.663	57.897	69.313
35.0	43.668	47.041	74.818	47.870	45.476	50.730	78.785	51.627	45.797	46.057
37.5	38.023	39.624	47.258	40.652	40.822	41.888	51.163	41.729	39.190	39.232
40.0	34.802	34.301	37.105	33.709	36.303	34.564	35.827	33.566	35.185	33.221
42.5	31.635	30.877	29.496	30.542	31.904	30.423	27.849	28.706	31.624	29.593
45.0	28.953	27.155	25.145	27.303	28.471	26.413	23.384	24.979	28.228	26.272
47.5	26.151	23.215	21.062	23.498	25.757	23.845	20.745	22.980	25.414	23.655
50.0	22.677	19.609	18.254	19.943	23.697	21.311	18.798	20.935	22.768	20.824
52.5	19.148	16.203	15.502	17.669	22.029	19.255	16.709	18.833	20.088	17.599
55.0	15.392	13.676	13.412	15.418	18.637	17.110	14.580	16.641	17.401	14.598
57.5	11.815	11.581	11.373	13.251	14.406	14.242	12.816	14.357	14.034	11.929
60.0	8.785	9.053	10.004	10.871	11.029	11.423	11.132	11.595	10.571	9.336
62.5	6.364	6.360	8.552	7.878	7.984	8.863	9.159	8.431	8.122	6.835
65.0	5.367	5.050	6.459	5.519	5.909	6.570	7.144	6.137	5.761	5.131
67.5	4.115	4.127	4.517	4.489	4.118	5.265	5.541	4.456	4.705	4.227
70.0	2.486	3.278	3.102	3.466	3.324	4.083	4.010	3.309	3.696	3.176
72.5	2.055	2.540	2.329	2.450	2.687	3.160	3.100	2.402	2.836	2.035
75.0	2.158	2.130	2.244	2.091	2.163	2.335	2.343	2.083	2.162	1.875
77.5	1.840	1.563	1.874	1.812	1.770	1.612	1.840	1.728	1.696	1.594
80.0	1.323	1.122	1.440	1.403	1.447	1.558	1.509	1.251	1.268	0.916
82.5	0.810	0.970	1.030	1.111	1.093	1.298	1.085	1.183	1.034	0.817
85.0	0.747	0.781	0.840	0.940	0.861	0.849	0.879	1.295	0.998	0.756
87.5	0.623	0.702	0.794	0.728	0.688	0.691	0.793	0.685	0.795	0.630
90.0	0.000	0.000	0.000	0.000	0.783	0.612	0.600	0.730	0.615	0.612
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	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092	1199.092
2.5	1188.360	1188.220	1184.220	1190.284	1196.652	1183.488	1194.930
5.0	1160.241	1158.437	1164.230	1157.218	1155.677	1162.471	1159.870
7.5	1093.221	1096.870	1093.309	1096.883	1102.573	1090.730	1112.258
10.0	996.663	1003.594	1017.453	998.818	989.857	1008.920	1006.580
12.5	868.382	867.314	873.320	866.225	863.335	865.607	882.456
15.0	720.044	727.710	726.576	725.220	723.711	722.026	733.609
17.5	593.937	584.338	580.645	577.960	581.949	577.320	578.838
20.0	479.079	455.478	436.065	447.053	476.234	439.832	441.772
22.5	389.827	340.013	313.153	326.263	374.190	324.784	307.634
25.0	310.941	243.074	196.336	231.670	293.081	221.610	208.095
27.5	235.177	160.034	128.827	150.032	212.987	147.843	112.151
30.0	160.400	104.679	69.650	100.431	150.319	90.105	79.209
32.5	108.727	66.610	54.929	63.480	89.645	63.621	49.448
35.0	62.437	47.999	42.286	47.330	63.529	44.889	43.668
37.5	46.073	39.102	37.672	37.580	39.406	38.261	38.023
40.0	34.629	33.603	33.363	32.383	32.094	33.001	34.802
42.5	29.158	29.460	29.937	28.212	25.299	29.522	31.635
45.0	24.303	25.911	26.558	24.430	21.427	26.284	28.953
47.5	20.762	22.546	23.290	20.708	17.911	23.301	26.151
50.0	17.282	19.291	20.088	18.115	15.804	20.331	22.677
52.5	15.035	16.060	17.007	15.631	13.793	17.371	19.148
55.0	12.811	13.752	14.003	13.568	12.064	14.500	15.392
57.5	10.983	11.592	11.113	11.515	10.353	11.690	11.815
60.0	9.187	9.030	8.605	8.436	8.683	9.296	8.785
62.5	7.656	6.429	6.566	5.477	7.009	7.143	6.364
65.0	6.116	5.218	4.858	4.162	5.329	5.310	5.367

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67.5	4.525	4.071	3.468	3.058	3.977	3.617	4.115
70.0	3.197	3.041	2.844	2.699	2.990	2.822	2.486
72.5	2.413	2.260	2.616	2.200	2.318	2.221	2.055
75.0	1.961	1.992	2.195	1.599	1.789	1.813	2.158
77.5	1.647	1.660	1.767	1.267	1.392	1.218	1.840
80.0	1.202	1.384	1.360	1.304	1.286	0.988	1.323
82.5	0.941	1.193	1.085	1.033	0.938	1.070	0.810
85.0	0.864	0.924	1.045	0.767	0.712	0.786	0.747
87.5	0.879	0.940	0.697	0.629	0.698	0.467	0.623
90.0	0.529	0.664	0.000	0.000	0.000	0.000	0.000
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	302.75	N.A.	60.40
0-30	421.46	N.A.	84.00
0-40	458.85	N.A.	91.50
0-60	492.37	N.A.	98.20
0-80	500.47	N.A.	99.80
0-90	501.41	N.A.	100.00
10-90	396.11	N.A.	79.00
20-40	156.09	N.A.	31.10
20-50	176.37	N.A.	35.20
40-70	39.40	N.A.	7.90
60-80	8.10	N.A.	1.60
70-80	2.22	N.A.	0.40
80-90	0.94	N.A.	0.20
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	501.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.30
10-20	197.46
20-30	118.71
30-40	37.39
40-50	20.28
50-60	13.24
60-70	5.87
70-80	2.22
80-90	0.94
90-100	0.04
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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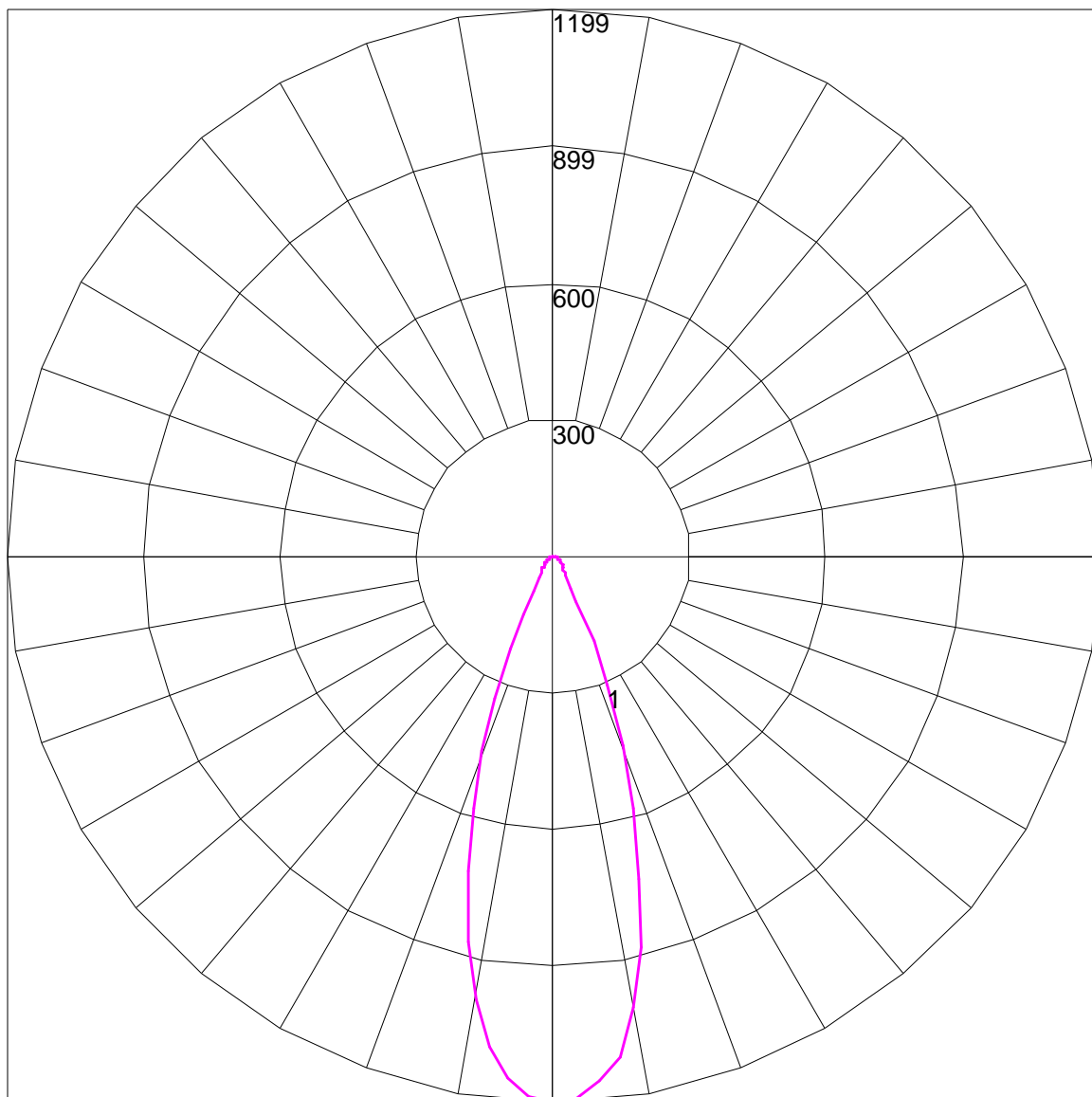
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	84	80	95	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	74	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00649 ~ SR2DMO-XT10L-E1-SDD2F-XXK-MDMWGL.IES

POLAR GRAPH



Maximum Candela = 1199.092 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)