

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_3 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_3_M-10L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/20/2018
[LUMCAT] SR2DMO-XT10L-E1-RDD2F-xxK-WD-MW-GL
[LUMINAIRE] Nom. 2" Round Trim Downlight, Wide Beam
[OTHER] Matte White Trim, Clear Glass lens
[OTHER] 39.3 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 RDD2F 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	681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.66
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 ft (Diameter)
Luminous Width (90-270)	0.15 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31495	31701	31590
55	27811	28741	28924
65	22263	23524	23658
75	15295	15946	15377
85	9489	9761	10026

IES INDOOR REPORT

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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	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208
2.5	1248.013	1230.994	1248.269	1223.859	1236.880	1221.253	1237.864	1222.281	1242.229	1228.911
5.0	1193.804	1190.383	1193.909	1187.509	1188.199	1182.532	1182.943	1180.185	1184.718	1186.276
7.5	1119.272	1107.944	1122.344	1100.801	1108.782	1094.741	1106.872	1094.696	1112.121	1104.025
10.0	1027.264	1021.200	1029.893	1013.305	1019.988	1006.262	1013.544	1006.929	1017.512	1014.203
12.5	929.127	924.756	931.436	916.769	922.920	908.731	915.590	909.200	919.516	915.946
15.0	823.084	823.940	826.280	818.814	820.194	810.058	814.486	809.549	817.512	816.656
17.5	714.871	715.061	719.733	711.176	713.355	703.175	711.305	703.723	715.958	713.299
20.0	615.399	611.158	619.395	605.678	611.716	598.202	606.987	601.598	614.845	609.676
22.5	517.644	514.624	519.966	509.980	513.173	502.799	508.159	508.584	515.957	514.739
25.0	420.354	419.815	423.455	415.398	416.266	408.188	411.711	414.757	418.863	420.092
27.5	323.124	327.077	327.187	324.698	320.135	316.427	321.471	319.299	328.406	329.809
30.0	247.195	248.259	252.405	242.724	244.686	234.211	233.391	237.838	242.282	242.153
32.5	172.831	183.435	178.768	183.775	177.044	178.404	177.636	178.799	179.522	183.840
35.0	125.726	128.617	131.229	129.703	128.066	126.801	130.308	125.915	129.187	127.441
37.5	79.865	81.984	85.318	85.709	84.544	84.418	89.236	81.005	87.898	83.468
40.0	58.366	55.181	60.836	53.980	60.781	53.483	49.347	52.547	50.474	46.473
42.5	38.411	41.718	38.996	43.095	41.206	42.499	40.669	41.916	38.655	40.241
45.0	36.596	35.588	36.835	36.073	36.707	35.579	35.894	35.945	35.280	35.104
47.5	34.606	33.484	34.637	34.344	34.472	34.449	33.309	34.084	33.402	33.648
50.0	31.448	31.233	32.251	32.478	32.584	32.632	30.864	31.813	31.907	31.819
52.5	28.450	28.917	29.796	30.454	30.725	30.013	29.028	29.244	29.326	29.033
55.0	26.213	26.419	27.090	27.930	27.262	27.430	27.179	26.841	26.551	26.312
57.5	23.870	23.858	24.495	24.937	23.774	24.882	24.743	24.537	23.897	23.726
60.0	21.165	21.133	22.211	22.010	21.569	22.013	22.263	22.184	21.257	21.120
62.5	18.396	18.366	19.616	19.133	19.317	18.887	19.329	19.810	18.596	18.482
65.0	15.461	15.562	16.337	16.269	16.430	16.113	16.455	16.765	15.935	15.705
67.5	12.752	12.752	13.159	13.413	13.638	13.565	13.938	13.468	13.656	12.743
70.0	10.406	10.481	10.121	10.652	11.277	11.116	11.397	10.790	11.267	10.293
72.5	8.382	8.199	8.194	7.995	8.912	8.706	8.795	8.320	8.313	8.266
75.0	6.505	5.880	6.782	5.906	6.540	6.249	6.491	6.774	5.931	6.089
77.5	4.407	4.426	5.185	4.540	4.841	4.178	4.405	4.971	4.154	4.151
80.0	2.869	2.976	3.460	3.605	3.427	2.694	2.572	3.129	2.735	2.865
82.5	2.043	1.836	2.232	2.661	2.345	2.370	2.319	2.754	2.059	2.280
85.0	1.359	1.345	1.398	1.512	1.436	1.442	1.740	1.461	1.552	1.318
87.5	0.751	0.808	0.922	0.730	1.226	1.043	1.084	1.044	0.850	1.204
90.0	0.000	0.000	0.000	0.000	0.000	0.791	0.806	0.714	0.898	0.454
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	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208	1257.208
2.5	1245.116	1222.648	1237.168	1222.784	1241.077	1225.843	1248.013
5.0	1188.125	1184.741	1185.975	1184.403	1190.844	1187.889	1193.804
7.5	1117.537	1100.164	1108.871	1098.120	1112.543	1100.567	1119.272
10.0	1023.830	1013.811	1015.601	1010.397	1021.710	1011.000	1027.264
12.5	925.925	913.754	916.423	912.508	922.392	912.102	929.127
15.0	822.178	812.986	814.299	812.795	816.732	812.707	823.084
17.5	719.881	708.652	712.598	704.297	707.623	705.018	714.871
20.0	619.246	606.602	611.071	599.890	609.799	598.989	615.399
22.5	521.182	513.129	515.263	509.718	516.917	507.199	517.644
25.0	425.517	419.984	421.234	418.429	420.094	415.163	420.354
27.5	335.427	327.767	329.836	324.133	321.910	321.755	323.124
30.0	249.628	244.871	239.039	240.087	245.354	235.508	247.195
32.5	182.887	182.427	177.751	177.938	174.385	177.282	172.831
35.0	128.182	125.472	121.332	122.176	122.356	122.870	125.726
37.5	86.275	78.386	81.645	77.276	73.963	80.038	79.865
40.0	50.835	47.565	43.618	47.659	53.889	47.806	58.366
42.5	38.315	40.280	38.782	39.632	37.304	40.404	38.411
45.0	35.222	35.423	35.426	34.526	34.616	34.911	36.596
47.5	33.234	33.458	33.514	32.772	32.789	32.956	34.606
50.0	31.596	30.907	31.543	30.386	30.782	30.813	31.448
52.5	29.106	27.779	28.580	27.411	28.763	28.381	28.450
55.0	26.419	25.358	25.653	24.995	26.515	25.848	26.213
57.5	24.194	23.502	23.042	23.017	24.211	23.190	23.870
60.0	22.048	21.028	20.464	20.697	21.315	20.639	21.165
62.5	18.680	18.148	18.069	18.164	18.408	18.198	18.396
65.0	15.186	15.244	15.631	15.122	15.424	15.550	15.461

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67.5	12.658	12.326	13.034	11.830	12.516	12.736	12.752
70.0	10.157	10.235	10.573	9.968	9.832	9.934	10.406
72.5	7.637	8.398	8.357	8.334	7.457	7.231	8.382
75.0	5.673	6.428	6.249	6.244	5.366	5.706	6.505
77.5	4.335	4.571	4.370	4.337	4.382	4.142	4.407
80.0	3.186	2.934	3.232	2.736	2.924	2.817	2.869
82.5	2.114	2.128	2.234	1.699	1.699	2.023	2.043
85.0	1.509	1.429	1.375	1.069	1.171	1.264	1.359
87.5	0.843	0.913	0.922	0.687	0.866	0.928	0.751
90.0	0.869	0.649	0.784	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	332.72	N.A.	48.90
0-30	522.30	N.A.	76.70
0-40	604.07	N.A.	88.70
0-60	656.87	N.A.	96.40
0-80	679.31	N.A.	99.70
0-90	681.00	N.A.	100.00
10-90	573.35	N.A.	84.20
20-40	271.35	N.A.	39.80
20-50	300.45	N.A.	44.10
40-70	68.50	N.A.	10.10
60-80	22.45	N.A.	3.30
70-80	6.75	N.A.	1.00
80-90	1.69	N.A.	0.20
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	681.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.65
10-20	225.07
20-30	189.58
30-40	81.77
40-50	29.10
50-60	23.70
60-70	15.70
70-80	6.75
80-90	1.69
90-100	0.05
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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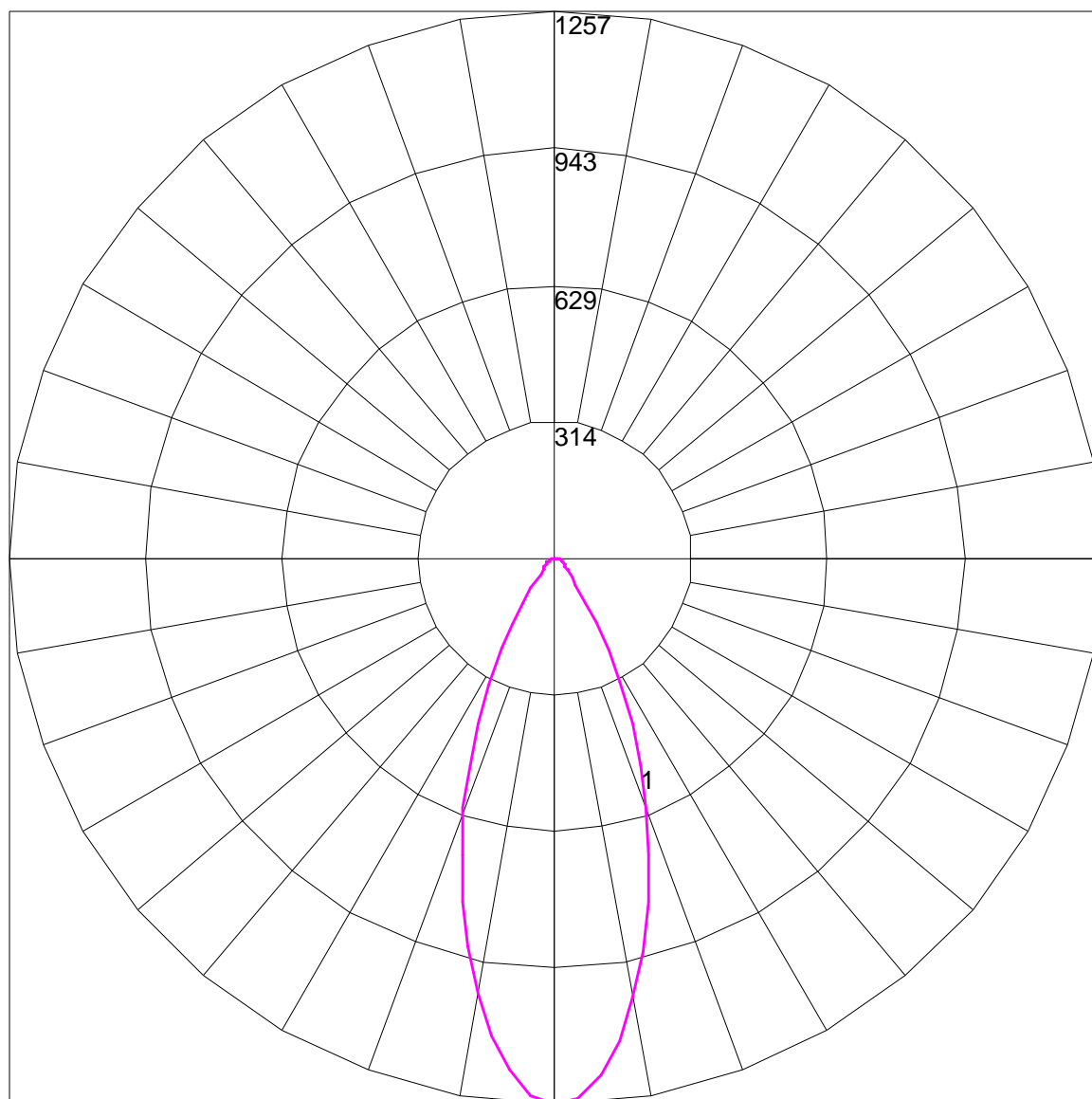
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	103	96	91	87	101	95	90	87	92	88	85	90	86	84	87	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	75	70	87	79	74	70	78	73	70	77	72	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	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_3 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWGL.IES

POLAR GRAPH



Maximum Candela = 1257.208 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)