

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT13L-E1-RDD2F-XXK-XNMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_7_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT13L-E1-RDD2F-xxK-XN-MW-NL
[LUMINAIRE] Nom. 2" Round Trim Downlight, Xtra Narrow Beam
[OTHER] Matte White Trim, No lens
[OTHER] 15.8 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	1087
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	20.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.28
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.28
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT13L-E1-RDD2F-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	38867	35833	35109
55	44903	45135	45510
65	35306	33313	34168
75	16383	16031	19854
85	10159	11381	11227

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	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038
2.5	7355.517	7118.780	7482.793	7247.571	7196.910	6982.423	7338.942	6972.836	7429.285	7062.802
5.0	5623.744	5479.448	5761.851	5397.409	5725.924	5806.692	5889.393	5832.572	5823.048	5749.564
7.5	3950.116	3886.926	3748.516	3675.065	3574.279	3696.968	3846.438	3894.217	3986.984	3881.746
10.0	2523.568	2349.939	2443.795	2209.962	2204.890	2137.945	2449.498	2383.096	2599.376	2489.120
12.5	1326.918	1339.150	1233.322	1158.421	1247.654	1313.528	1317.297	1398.534	1262.220	1373.178
15.0	931.063	876.214	881.540	827.949	811.568	790.309	858.136	806.788	901.440	854.696
17.5	623.877	624.261	617.917	606.832	621.614	631.172	633.160	639.775	612.545	637.789
20.0	574.928	565.146	569.009	557.641	547.462	538.082	558.631	543.596	562.495	550.589
22.5	531.118	526.720	533.941	521.132	520.204	515.042	527.928	516.916	523.515	520.857
25.0	500.005	505.444	495.470	502.040	483.431	478.611	494.894	480.722	496.994	480.022
27.5	429.005	414.404	456.364	426.489	443.389	429.708	461.273	436.335	467.934	434.901
30.0	270.224	272.698	299.437	283.002	311.484	323.684	325.966	328.241	312.376	306.461
32.5	146.165	167.146	145.626	170.650	153.193	170.999	170.016	172.060	161.660	150.829
35.0	88.032	84.529	96.804	91.171	91.081	87.686	104.762	90.949	104.493	89.926
37.5	50.801	50.558	50.680	48.966	52.840	55.717	53.810	59.385	51.336	54.741
40.0	48.034	43.431	45.818	42.472	43.656	41.444	44.364	44.744	45.841	45.116
42.5	46.040	41.473	41.430	39.955	40.267	38.617	39.931	40.183	41.103	41.296
45.0	45.162	42.076	41.637	40.782	40.795	38.277	39.605	40.152	42.484	40.169
47.5	45.557	44.334	42.165	42.276	41.928	39.339	39.633	42.462	43.651	39.543
50.0	47.609	47.296	44.914	44.263	44.225	42.139	42.589	43.911	43.533	41.887
52.5	46.673	45.302	46.632	45.694	46.654	45.787	45.690	44.977	43.018	44.652
55.0	42.323	41.510	42.542	46.767	42.895	43.018	43.317	42.091	40.579	41.459
57.5	37.619	37.364	38.406	42.207	38.621	37.454	40.797	37.669	37.807	37.666
60.0	32.593	33.119	34.090	34.599	34.816	33.355	36.180	34.311	33.828	32.076
62.5	28.366	27.923	29.152	29.333	30.558	29.741	31.270	31.267	29.837	26.571
65.0	24.519	22.926	23.135	24.700	23.729	24.721	24.930	24.974	25.827	22.361
67.5	19.710	19.142	17.770	20.059	18.776	19.870	19.763	18.905	20.364	18.754
70.0	14.221	14.875	12.856	15.668	16.047	16.371	16.028	14.572	14.212	16.023
72.5	7.754	10.336	9.157	11.590	11.988	12.716	11.740	11.655	11.019	11.689
75.0	6.968	6.009	6.818	9.356	8.444	9.282	8.473	9.188	8.585	7.849
77.5	6.050	5.619	5.166	5.907	5.809	7.304	6.711	5.496	6.218	5.431
80.0	4.402	4.156	3.645	3.960	3.906	3.714	4.751	3.203	3.185	4.946
82.5	2.450	2.023	2.583	3.394	2.410	1.848	3.841	3.684	2.917	2.839
85.0	1.455	1.959	1.630	1.898	1.608	1.862	2.504	2.294	1.346	2.580
87.5	1.276	0.562	1.268	0.844	1.183	1.310	1.372	0.837	1.531	1.145
90.0	0.000	0.000	0.998	0.000	0.746	0.877	0.900	0.853	1.463	0.959
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	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038	7546.038
2.5	7270.152	7181.408	7038.375	6800.443	7095.868	6867.451	7355.517
5.0	5475.028	5606.133	5298.631	5307.634	5433.860	5412.372	5623.744
7.5	3763.721	3590.220	3665.943	3739.647	3844.677	3891.959	3950.116
10.0	2358.368	2302.536	2168.016	2134.497	2374.279	2335.024	2523.568
12.5	1208.349	1248.060	1199.673	1309.753	1332.537	1439.090	1326.918
15.0	869.916	848.223	835.767	829.965	901.028	862.872	931.063
17.5	610.087	622.417	620.573	635.593	633.550	637.738	623.877
20.0	560.783	554.325	554.360	548.930	570.519	558.421	574.928
22.5	518.804	520.261	510.897	510.076	523.063	520.758	531.118
25.0	493.563	476.146	487.436	486.438	493.208	497.798	500.005
27.5	426.472	430.271	397.225	378.139	400.964	387.508	429.005
30.0	277.036	286.967	254.675	247.486	246.826	250.149	270.224
32.5	157.529	130.296	152.493	152.855	141.516	155.304	146.165
35.0	90.943	83.803	78.487	66.379	78.725	71.360	88.032
37.5	48.341	47.951	47.467	47.781	48.167	49.988	50.801
40.0	42.659	42.266	42.628	41.354	42.215	41.571	48.034
42.5	40.025	38.355	39.443	38.778	39.120	40.458	46.040
45.0	41.489	36.887	37.130	36.724	38.000	40.523	45.162
47.5	42.990	35.495	38.154	39.706	40.253	43.627	45.557
50.0	44.531	40.609	40.731	43.167	44.541	47.125	47.609
52.5	44.180	45.391	40.589	40.819	44.578	44.767	46.673
55.0	41.805	40.698	39.340	38.083	42.390	41.886	42.323
57.5	37.842	36.007	36.899	34.479	37.868	36.654	37.619
60.0	32.484	31.318	34.074	30.972	32.402	31.378	32.593
62.5	27.032	26.722	27.802	28.166	27.990	26.374	28.366
65.0	21.533	22.414	21.623	23.717	23.441	22.026	24.519

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT13L-E1-RDD2F-XXK-XNMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	18.470	18.819	18.526	16.941	17.105	18.741	19.710
70.0	14.714	15.836	14.624	13.471	12.811	13.933	14.221
72.5	9.410	11.284	10.166	10.815	9.977	9.428	7.754
75.0	8.057	7.992	6.762	8.279	7.008	6.291	6.968
77.5	6.054	6.057	4.615	4.883	5.103	5.649	6.050
80.0	3.563	4.790	3.020	4.469	2.881	3.097	4.402
82.5	1.865	2.420	1.919	1.966	1.533	2.549	2.450
85.0	1.177	1.996	1.720	1.305	1.182	1.448	1.455
87.5	1.152	0.757	1.013	1.135	0.878	1.230	1.276
90.0	0.185	0.535	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	702.44	N.A.	64.60
0-30	914.53	N.A.	84.10
0-40	983.97	N.A.	90.50
0-60	1052.51	N.A.	96.80
0-80	1084.81	N.A.	99.80
0-90	1086.86	N.A.	100.00
10-90	660.59	N.A.	60.80
20-40	281.53	N.A.	25.90
20-50	313.61	N.A.	28.90
40-70	92.00	N.A.	8.50
60-80	32.30	N.A.	3.00
70-80	8.84	N.A.	0.80
80-90	2.05	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	1086.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	426.27
10-20	276.17
20-30	212.09
30-40	69.44
40-50	32.07
50-60	36.47
60-70	23.46
70-80	8.84
80-90	2.05
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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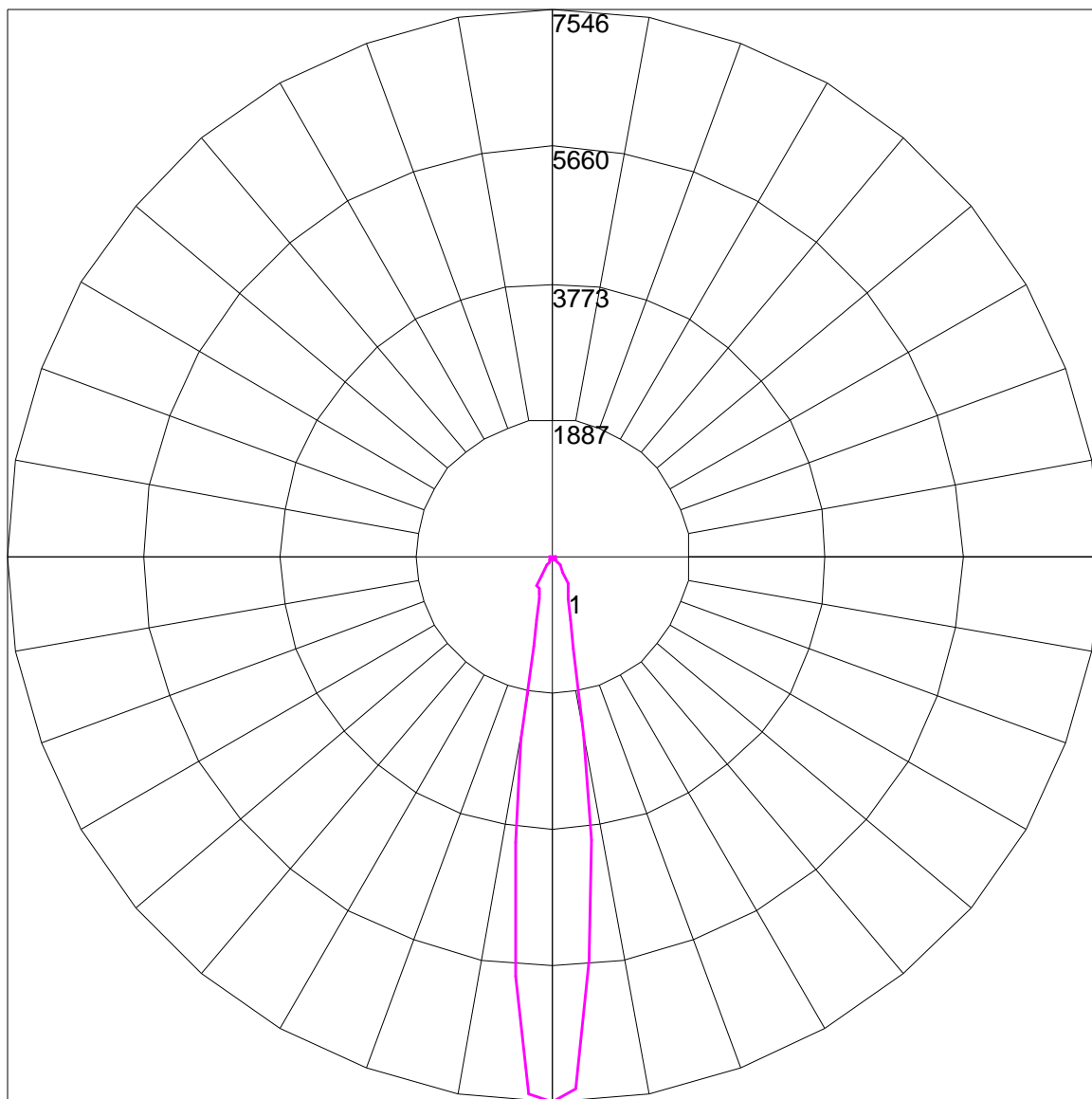
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95
2	110	105	102	99	107	104	101	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	91	89	87	86
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	85	83	80	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	75	74
8	89	81	77	74	88	81	76	73	80	76	73	79	75	73	78	75	73	71
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT13L-E1-RDD2F-XXK-XNMWNL.IES

POLAR GRAPH



Maximum Candela = 7546.038 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)