

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00648_7_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT10L-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	807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	14.8
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-XT10L-E1-RDD2F-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	28851	26600	26061
55	33332	33504	33783
65	26207	24729	25363
75	12161	11900	14737
85	7541	8449	8337

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES

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	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482
2.5	5460.057	5284.325	5554.535	5379.928	5342.322	5183.107	5447.753	5175.990	5514.816	5242.772
5.0	4174.548	4067.437	4277.067	4006.539	4250.397	4310.352	4371.742	4329.563	4322.494	4267.945
7.5	2932.202	2885.295	2782.552	2728.029	2653.215	2744.288	2855.240	2890.708	2959.569	2881.450
10.0	1873.264	1744.378	1814.048	1640.472	1636.707	1587.013	1818.281	1768.991	1929.537	1847.693
12.5	984.981	994.061	915.505	859.905	926.143	975.042	977.840	1038.143	936.956	1019.320
15.0	691.135	650.420	654.374	614.593	602.433	586.652	637.001	598.885	669.146	634.447
17.5	463.109	463.394	458.685	450.456	461.429	468.524	469.999	474.910	454.697	473.436
20.0	426.774	419.513	422.380	413.941	406.385	399.422	414.676	403.516	417.544	408.706
22.5	394.253	390.989	396.348	386.840	386.151	382.320	391.885	383.711	388.609	386.636
25.0	371.158	375.195	367.791	372.668	358.855	355.276	367.364	356.843	368.922	356.324
27.5	318.454	307.615	338.762	316.586	329.131	318.975	342.407	323.895	347.351	322.831
30.0	200.590	202.426	222.274	210.075	231.217	240.273	241.967	243.656	231.879	227.489
32.5	108.500	124.073	108.099	126.675	113.717	126.934	126.204	127.721	120.002	111.961
35.0	65.347	62.746	71.859	67.677	67.610	65.090	77.766	67.512	77.566	66.753
37.5	37.710	37.529	37.621	36.348	39.224	41.359	39.944	44.082	38.107	40.635
40.0	35.656	32.239	34.011	31.528	32.406	30.764	32.932	33.214	34.028	33.490
42.5	34.176	30.786	30.754	29.659	29.890	28.666	29.641	29.828	30.511	30.655
45.0	33.524	31.234	30.908	30.273	30.282	28.413	29.399	29.805	31.536	29.818
47.5	33.817	32.909	31.300	31.382	31.123	29.201	29.420	31.520	32.402	29.353
50.0	35.341	35.108	33.340	32.857	32.829	31.280	31.614	32.595	32.315	31.093
52.5	34.645	33.628	34.615	33.919	34.632	33.988	33.916	33.387	31.932	33.145
55.0	31.417	30.813	31.579	34.716	31.842	31.933	32.155	31.245	30.122	30.775
57.5	27.925	27.736	28.509	31.331	28.669	27.803	30.284	27.962	28.065	27.960
60.0	24.194	24.585	25.305	25.683	25.844	24.759	26.857	25.469	25.111	23.810
62.5	21.056	20.728	21.640	21.774	22.684	22.077	23.212	23.210	22.148	19.724
65.0	18.200	17.018	17.174	18.335	17.614	18.350	18.506	18.538	19.172	16.599
67.5	14.631	14.209	13.191	14.890	13.937	14.750	14.670	14.034	15.117	13.922
70.0	10.557	11.042	9.543	11.630	11.912	12.152	11.897	10.817	10.549	11.894
72.5	5.756	7.672	6.797	8.603	8.899	9.439	8.715	8.652	8.179	8.677
75.0	5.172	4.461	5.061	6.945	6.268	6.890	6.289	6.820	6.373	5.827
77.5	4.491	4.171	3.835	4.384	4.312	5.422	4.981	4.080	4.616	4.032
80.0	3.267	3.085	2.705	2.939	2.899	2.757	3.527	2.377	2.364	3.672
82.5	1.819	1.502	1.917	2.520	1.789	1.372	2.851	2.734	2.165	2.107
85.0	1.080	1.454	1.210	1.409	1.194	1.382	1.859	1.703	0.999	1.915
87.5	0.947	0.417	0.941	0.626	0.878	0.973	1.019	0.621	1.136	0.850
90.0	0.000	0.000	0.741	0.000	0.554	0.651	0.668	0.633	1.086	0.712
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES

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	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482	5601.482
2.5	5396.690	5330.814	5224.640	5048.021	5267.317	5097.762	5460.057
5.0	4064.155	4161.476	3933.215	3939.898	4033.596	4017.646	4174.548
7.5	2793.839	2665.048	2721.257	2775.969	2853.933	2889.031	2932.202
10.0	1750.635	1709.190	1609.335	1584.453	1762.446	1733.306	1873.264
12.5	896.967	926.444	890.527	972.239	989.152	1068.248	984.981
15.0	645.745	629.642	620.396	616.090	668.840	640.517	691.135
17.5	452.873	462.025	460.656	471.806	470.289	473.398	463.109
20.0	416.273	411.480	411.506	407.475	423.501	414.521	426.774
22.5	385.112	386.193	379.243	378.633	388.274	386.563	394.253
25.0	366.375	353.447	361.828	361.087	366.112	369.519	371.158
27.5	316.574	319.394	294.863	280.695	297.639	287.650	318.454
30.0	205.646	213.017	189.047	183.710	183.221	185.688	200.590
32.5	116.935	96.720	113.196	113.466	105.048	115.284	108.500
35.0	67.508	62.207	58.261	49.274	58.438	52.971	65.347
37.5	35.884	35.595	35.235	35.468	35.755	37.107	37.710
40.0	31.666	31.375	31.643	30.697	31.336	30.859	35.656
42.5	29.711	28.471	29.279	28.785	29.039	30.032	34.176
45.0	30.798	27.381	27.562	27.261	28.207	30.080	33.524
47.5	31.912	26.348	28.322	29.474	29.880	32.385	33.817
50.0	33.056	30.144	30.235	32.043	33.063	34.981	35.341
52.5	32.796	33.694	30.129	30.301	33.090	33.231	34.645
55.0	31.032	30.211	29.202	28.270	31.466	31.092	31.417
57.5	28.091	26.728	27.390	25.594	28.110	27.209	27.925
60.0	24.113	23.247	25.294	22.991	24.052	23.292	24.194
62.5	20.066	19.836	20.638	20.908	20.777	19.578	21.056
65.0	15.984	16.638	16.051	17.605	17.400	16.350	18.200

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES****CANDELA TABULATION - (Cont.)**

67.5	13.711	13.970	13.752	12.575	12.697	13.911	14.631
70.0	10.922	11.755	10.856	9.999	9.510	10.342	10.557
72.5	6.985	8.376	7.546	8.028	7.406	6.998	5.756
75.0	5.981	5.932	5.019	6.146	5.202	4.670	5.172
77.5	4.494	4.496	3.426	3.625	3.788	4.193	4.491
80.0	2.645	3.556	2.242	3.318	2.139	2.299	3.267
82.5	1.384	1.796	1.424	1.459	1.138	1.892	1.819
85.0	0.874	1.482	1.277	0.969	0.877	1.075	1.080
87.5	0.855	0.562	0.752	0.842	0.652	0.913	0.947
90.0	0.138	0.397	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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	521.43	N.A.	64.60
0-30	678.86	N.A.	84.10
0-40	730.41	N.A.	90.50
0-60	781.29	N.A.	96.80
0-80	805.26	N.A.	99.80
0-90	806.78	N.A.	100.00
10-90	490.36	N.A.	60.80
20-40	208.98	N.A.	25.90
20-50	232.79	N.A.	28.90
40-70	68.29	N.A.	8.50
60-80	23.98	N.A.	3.00
70-80	6.56	N.A.	0.80
80-90	1.52	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	806.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	316.42
10-20	205.00
20-30	157.43
30-40	51.55
40-50	23.81
50-60	27.07
60-70	17.41
70-80	6.56
80-90	1.52
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_7 ~ SR2DMO-XT10L-E1-RDD2F-XXK-XNMWNL.IES

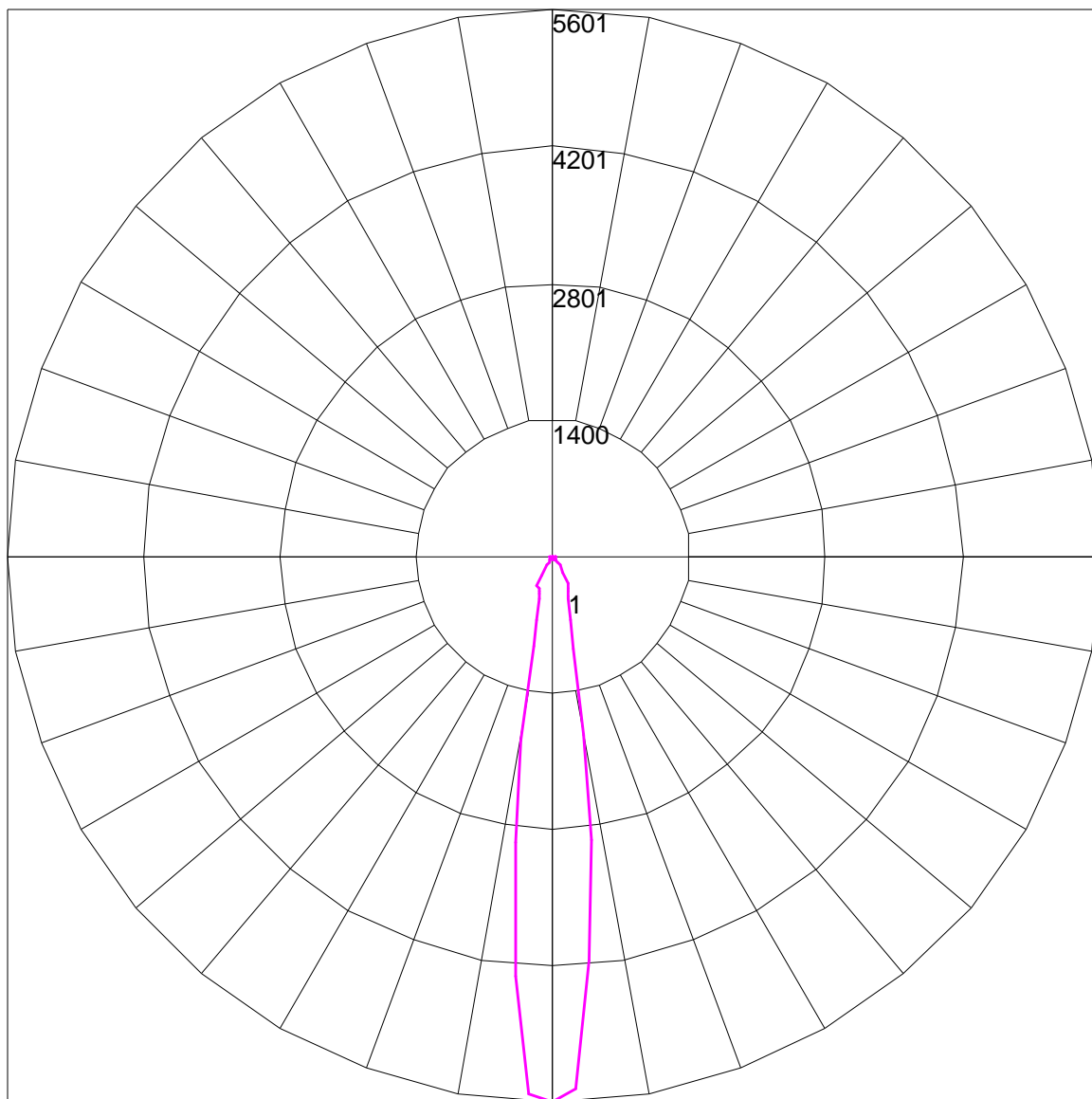
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	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	88	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-XT10L-E1-RDD2F-XXK-XNMWNL.IES

POLAR GRAPH



Maximum Candela = 5601.482 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)