

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00648_5_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/16/2018
 [UPDATE] 4/30/2018
 [LUMCAT] SR2DMO-XT10L-E1-RDD2F-xxK-WD-MW-SO
 [LUMINAIRE] Nom. 2" Round Trim Downlight, Wide Beam
 [OTHER] Matte White Trim, Solite lens
 [OTHER] 40.7 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	691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.68
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_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	36903	37489	38881
55	31187	32615	33995
65	24819	26600	27488
75	16412	17108	17340
85	8805	12380	10501

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.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	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966
2.5	1173.122	1171.869	1174.912	1177.058	1182.485	1168.955	1176.134	1172.453	1168.451	1169.044
5.0	1130.735	1131.388	1131.796	1130.776	1130.438	1129.459	1128.010	1127.065	1126.779	1128.546
7.5	1070.770	1071.618	1074.040	1074.679	1076.397	1064.903	1068.285	1063.692	1063.177	1063.622
10.0	989.067	991.217	993.123	992.039	991.268	987.794	986.045	983.817	985.648	986.488
12.5	900.785	902.565	905.696	905.258	905.421	897.795	897.293	895.007	896.404	897.483
15.0	804.341	804.932	807.612	807.231	807.439	802.908	801.669	800.405	801.773	803.201
17.5	706.106	706.428	708.852	708.598	709.295	702.910	704.050	702.655	702.458	703.695
20.0	605.609	606.973	608.983	608.277	608.187	604.097	605.896	605.204	605.148	606.469
22.5	507.477	509.672	511.316	509.460	507.483	506.544	507.580	507.920	509.587	511.506
25.0	412.386	414.801	417.338	414.918	414.376	413.227	414.366	415.560	417.303	419.146
27.5	324.723	327.839	329.608	325.800	322.328	324.434	322.711	325.980	327.930	329.456
30.0	246.649	249.833	252.540	252.171	252.230	248.358	250.234	250.852	250.766	251.303
32.5	180.682	184.232	185.360	184.949	183.185	186.309	183.766	183.918	184.638	185.024
35.0	130.631	132.721	135.113	136.819	138.402	135.683	136.985	134.234	132.954	131.830
37.5	91.462	92.370	93.765	94.747	94.556	97.698	96.525	94.679	94.368	92.146
40.0	66.861	65.117	67.954	70.806	72.726	70.257	72.137	69.699	67.654	64.659
42.5	49.804	47.622	49.346	51.183	51.406	54.522	52.933	53.308	51.900	50.179
45.0	42.880	41.616	43.561	44.539	45.179	44.284	44.138	44.069	42.493	41.092
47.5	37.582	37.454	38.678	38.936	39.079	40.351	38.780	39.126	39.053	37.776
50.0	34.541	35.501	35.404	36.604	36.798	36.910	36.158	36.177	35.840	34.721
52.5	31.776	32.936	32.620	34.091	34.511	34.037	34.461	34.450	32.841	31.950
55.0	29.395	29.626	30.741	31.001	32.042	31.538	31.885	31.988	30.208	29.344
57.5	26.813	26.627	28.564	27.991	29.554	29.476	29.011	29.074	27.930	26.921
60.0	23.950	24.009	25.833	25.239	26.220	26.746	25.673	25.952	25.388	24.238
62.5	20.796	21.110	22.606	22.307	22.871	23.220	22.170	22.698	22.587	21.267
65.0	17.236	17.872	18.473	18.810	19.090	20.009	18.879	19.238	19.079	18.173
67.5	14.054	14.611	14.928	15.313	15.484	17.160	15.662	15.648	14.906	14.946
70.0	11.238	11.332	12.155	11.811	13.098	13.978	13.101	12.604	12.052	12.397
72.5	9.036	9.512	9.627	9.545	10.443	10.536	10.676	9.789	10.035	10.343
75.0	6.980	7.681	7.276	7.971	7.375	7.998	8.305	7.692	7.789	7.799
77.5	4.783	4.753	5.390	4.938	5.412	5.801	5.989	5.596	5.530	5.404
80.0	3.496	3.117	3.412	3.222	3.920	3.990	3.917	3.479	3.301	3.518
82.5	2.108	1.849	2.385	2.399	2.637	2.929	2.839	2.618	2.880	2.153
85.0	1.261	1.276	1.773	1.491	1.504	1.915	1.807	1.565	1.857	1.532
87.5	0.669	0.884	1.043	0.593	1.014	0.989	1.046	1.310	0.970	0.956
90.0	0.000	0.000	0.000	0.000	0.000	0.588	0.848	0.543	0.615	0.908
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_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.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	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966	1183.966
2.5	1171.414	1175.983	1182.156	1169.808	1179.569	1175.605	1173.122
5.0	1128.174	1129.735	1129.045	1126.637	1130.637	1129.067	1130.735
7.5	1065.400	1068.688	1072.119	1064.748	1073.893	1070.468	1070.770
10.0	986.738	988.162	987.626	983.905	988.562	988.613	989.067
12.5	897.613	900.072	901.059	895.649	900.480	901.349	900.785
15.0	802.718	803.742	803.154	799.862	802.280	803.446	804.341
17.5	704.009	704.082	704.383	702.728	704.081	704.990	706.106
20.0	608.193	607.593	607.518	604.182	605.883	605.425	605.609
22.5	514.322	512.391	510.816	507.269	508.498	507.362	507.477
25.0	421.393	419.769	417.589	412.074	414.265	412.323	412.386
27.5	329.110	328.199	324.663	324.925	323.869	323.468	324.723
30.0	250.960	251.573	249.846	246.276	248.779	247.536	246.649
32.5	182.537	181.277	176.693	180.659	179.108	180.262	180.682
35.0	129.971	130.543	129.449	129.263	131.670	131.153	130.631
37.5	88.518	88.129	84.727	90.422	89.262	90.428	91.462
40.0	62.839	63.830	64.067	65.328	67.601	67.357	66.861
42.5	48.422	47.400	45.772	48.846	48.710	49.362	49.804
45.0	40.624	40.242	40.829	41.963	41.861	42.464	42.880
47.5	37.567	37.197	37.271	37.139	35.963	36.933	37.582
50.0	34.929	35.046	34.712	34.652	34.216	34.401	34.541
52.5	32.601	33.294	32.261	32.189	32.271	31.868	31.776
55.0	30.206	30.701	29.472	29.751	29.458	29.328	29.395
57.5	27.761	27.726	26.645	27.055	26.694	26.656	26.813
60.0	24.545	24.161	23.746	24.058	24.161	23.679	23.950
62.5	20.755	20.320	20.838	20.860	21.428	20.458	20.796
65.0	17.377	17.230	17.329	17.433	17.829	16.707	17.236

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	14.299	14.476	13.753	14.415	14.488	13.407	14.054
70.0	11.716	11.773	11.315	11.718	11.773	10.730	11.238
72.5	9.356	9.127	9.020	8.871	9.355	8.733	9.036
75.0	7.382	7.358	7.119	6.265	7.167	6.920	6.980
77.5	5.564	5.514	5.189	4.399	5.069	4.583	4.783
80.0	3.928	3.655	3.568	3.413	3.643	2.895	3.496
82.5	2.269	2.194	2.566	2.321	2.258	1.929	2.108
85.0	1.807	1.334	1.685	1.053	1.526	1.053	1.261
87.5	1.051	0.705	0.845	0.718	0.991	0.797	0.669
90.0	0.634	0.605	0.907	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_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.03	N.A.	47.00
0-30	514.46	N.A.	74.40
0-40	601.19	N.A.	87.00
0-60	663.27	N.A.	96.00
0-80	689.26	N.A.	99.70
0-90	691.10	N.A.	100.00
10-90	587.70	N.A.	85.00
20-40	276.15	N.A.	40.00
20-50	311.11	N.A.	45.00
40-70	80.14	N.A.	11.60
60-80	25.99	N.A.	3.80
70-80	7.93	N.A.	1.10
80-90	1.84	N.A.	0.30
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	691.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.40
10-20	221.63
20-30	189.42
30-40	86.73
40-50	34.96
50-60	27.13
60-70	18.06
70-80	7.93
80-90	1.84
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_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES

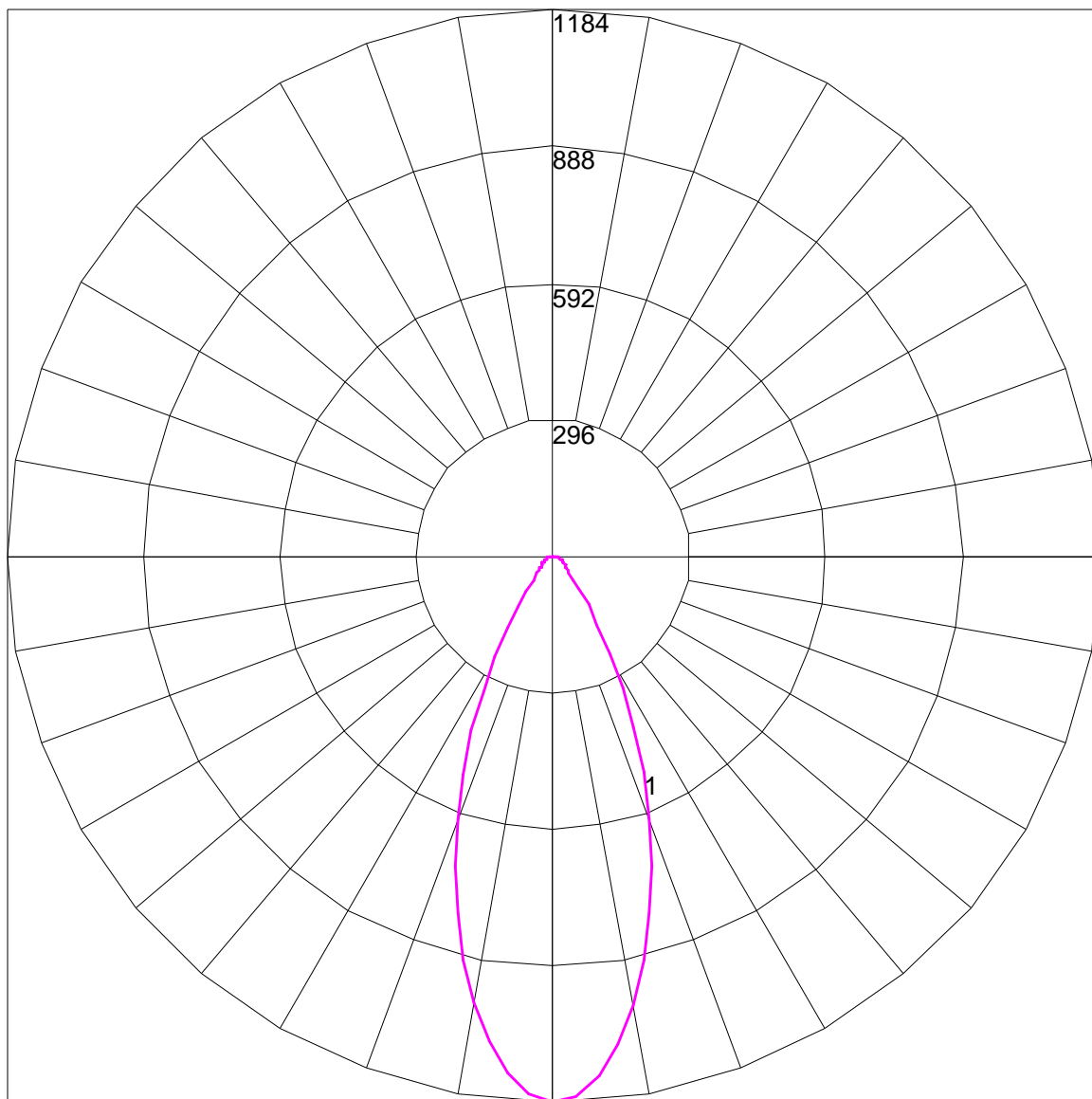
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	108	105	111	108	106	104	104	102	101	100	99	97	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	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	71	65	61	69	64	61	68	64	61	68	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT10L-E1-RDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 1183.966 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)