

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00649\_7 ~ SS2MX-XT10L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00649\_7\_M-10L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 5/16/2018  
 [UPDATE] 7/12/2018  
 [LUMCAT] SS2MX-XT10L-E1-SH2FGC2-35K-MD-MW  
 [LUMINAIRE] Nom. 2" Square Downlight, Medium Beam  
 [OTHER] Matte White Trim, Decorative - Frosted Glass  
 [OTHER] Interior of glass accent also frosted  
 [OTHER] 22.7 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: SS2MO-XT-series  
 [OTHER] For New Construction IC Rated Housing: SS2MI-XT-Series  
 [OTHER] For Remodel/Retrofit Housing: SS2MR-XT-Series  
 [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	176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	16
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.09 ft
Luminous Width (90-270)	0.09 ft
Luminous Height	0.17 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00649\_7 ~ SS2MX-XT10L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7002	6076	6325
55	5896	4976	5092
65	4674	4489	4452
75	4297	4329	4143
85	3730	4371	3394

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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	735.549	735.549	735.549	735.549	735.549	735.549	735.549	735.549	735.549	735.549
2.5	712.575	712.137	703.720	713.705	713.155	694.790	697.466	696.233	703.208	698.972
5.0	678.577	680.531	664.644	680.399	677.269	645.839	648.538	640.321	662.498	654.693
7.5	597.540	597.050	596.774	595.317	587.805	523.215	523.503	498.052	524.411	509.164
10.0	503.702	502.906	494.527	503.181	481.013	396.949	388.100	357.649	386.397	365.072
12.5	356.193	353.136	342.382	349.915	322.949	248.234	253.717	223.967	254.874	235.470
15.0	224.004	217.712	217.290	192.976	190.003	119.670	120.060	114.932	133.986	119.564
17.5	136.707	132.347	122.299	122.797	110.929	72.747	75.799	70.675	88.308	77.987
20.0	69.864	65.024	64.248	56.273	54.353	35.984	34.201	38.365	48.650	43.064
22.5	46.515	42.273	38.278	38.854	35.060	27.641	28.363	29.140	35.377	32.080
25.0	29.599	25.844	25.234	23.320	22.890	21.554	23.213	22.930	24.624	23.519
27.5	23.257	21.340	20.914	20.665	19.720	20.072	22.483	21.125	21.523	21.211
30.0	19.320	18.421	19.100	18.445	17.833	18.996	21.681	19.363	18.656	19.203
32.5	18.400	17.766	18.562	18.041	17.210	18.563	20.588	17.651	16.300	17.770
35.0	16.813	16.721	17.901	17.215	15.517	17.243	18.928	15.477	14.379	16.159
37.5	14.585	15.249	17.193	15.153	13.003	14.848	15.638	12.895	13.186	14.288
40.0	13.168	13.896	15.348	13.517	11.586	13.185	13.311	11.535	12.004	12.985
42.5	12.371	12.645	13.195	12.795	10.809	12.202	12.998	11.006	10.837	12.328
45.0	11.425	11.922	12.559	12.211	10.320	11.642	12.430	10.459	10.266	11.587
47.5	10.391	11.548	12.187	11.849	9.957	11.393	11.454	9.903	10.285	10.773
50.0	10.179	11.118	12.132	11.336	9.386	10.872	10.810	9.982	9.863	10.524
52.5	10.322	10.660	12.107	10.636	8.747	10.199	10.576	10.308	9.097	10.665
55.0	9.955	10.364	10.910	10.142	8.598	9.645	10.298	9.960	8.547	10.364
57.5	9.424	10.129	9.739	9.851	8.555	9.142	9.977	9.428	8.128	9.833
60.0	8.913	10.112	9.865	9.586	8.150	9.020	9.809	8.948	8.005	9.568
62.5	8.406	10.153	9.991	9.339	7.698	9.015	9.754	8.478	8.013	9.405
65.0	7.917	9.870	10.109	8.961	7.542	9.104	9.443	8.550	7.674	9.391
67.5	7.433	9.532	10.129	8.507	7.417	9.213	8.988	8.657	7.219	9.420
70.0	7.654	9.393	9.774	8.521	7.459	8.601	8.922	8.077	7.211	8.786
72.5	7.653	9.306	9.625	8.678	7.324	8.155	8.991	7.885	7.193	8.298
75.0	7.082	9.355	9.709	8.855	6.827	8.373	9.376	8.604	6.825	8.674
77.5	6.774	9.416	9.815	8.611	6.355	8.060	9.256	8.211	6.555	8.575
80.0	6.602	9.360	9.627	8.193	6.103	7.821	8.909	8.001	6.217	8.680
82.5	6.371	9.147	9.364	8.323	5.926	7.932	9.162	8.545	5.696	9.300
85.0	5.788	9.203	9.463	7.435	5.267	7.082	8.833	8.333	5.637	7.733
87.5	5.213	8.550	7.881	6.616	4.748	6.270	7.074	6.207	4.091	7.238
90.0	2.917	5.496	5.086	1.789	3.067	4.241	2.095	4.316	2.059	4.592
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	735.549	735.549	735.549	735.549	735.549	735.549	735.549
2.5	703.319	699.991	707.565	718.021	712.158	712.511	712.575
5.0	659.990	639.766	670.636	693.280	676.267	681.948	678.577
7.5	533.548	502.542	544.370	584.776	595.527	603.273	597.540
10.0	383.837	365.593	412.061	471.330	490.936	520.397	503.702
12.5	255.975	229.260	282.989	319.852	333.029	365.020	356.193
15.0	132.287	125.582	158.478	183.825	202.932	217.222	224.004
17.5	83.741	76.454	104.990	118.005	120.720	138.259	136.707
20.0	43.080	43.232	56.041	62.565	63.624	68.428	69.864
22.5	32.075	30.265	38.641	40.226	39.441	46.163	46.515
25.0	22.246	22.312	23.933	23.699	25.291	27.718	29.599
27.5	21.606	19.409	20.875	20.471	21.242	22.319	23.257
30.0	20.859	17.452	18.177	18.170	19.140	18.357	19.320
32.5	19.090	16.226	16.555	17.479	18.588	17.946	18.400
35.0	17.323	15.170	15.014	16.488	17.689	17.282	16.813
37.5	15.564	14.216	13.647	15.097	16.579	16.151	14.585
40.0	14.039	13.661	12.594	13.848	15.323	14.979	13.168
42.5	13.346	13.287	12.058	12.744	14.002	13.748	12.371
45.0	12.825	12.420	11.510	12.023	13.019	12.809	11.425
47.5	12.734	11.391	10.946	11.607	12.153	12.194	10.391
50.0	12.465	11.351	10.576	11.444	12.090	12.068	10.179
52.5	11.861	11.535	10.397	11.438	12.216	12.359	10.322
55.0	11.279	11.549	10.198	11.212	11.944	12.026	9.955
57.5	10.726	11.539	9.983	10.884	11.616	11.287	9.424
60.0	10.458	10.840	9.655	10.382	11.131	10.839	8.913
62.5	10.507	10.101	9.261	9.820	10.636	10.541	8.406
65.0	10.519	9.675	8.773	9.661	10.844	10.298	7.917

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00649\_7 ~ SS2MX-XT10L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES****CANDELA TABULATION - (Cont.)**

67.5	10.500	9.284	8.245	9.596	10.989	10.078	7.433
70.0	10.063	9.150	8.127	9.544	10.663	9.756	7.654
72.5	9.427	9.229	8.008	9.493	10.374	9.543	7.653
75.0	9.396	9.650	7.214	9.442	10.149	10.062	7.082
77.5	9.551	8.878	6.599	9.508	10.071	9.817	6.774
80.0	9.786	8.116	6.186	9.359	10.194	9.251	6.602
82.5	9.388	7.937	5.956	8.669	10.362	9.119	6.371
85.0	9.329	7.974	5.243	8.193	9.843	9.370	5.788
87.5	7.626	6.563	4.324	7.465	8.801	8.644	5.213
90.0	2.112	4.323	2.959	5.022	6.266	2.153	2.917
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	107.59	N.A.	61.10
0-30	120.75	N.A.	68.50
0-40	130.97	N.A.	74.30
0-60	149.55	N.A.	84.90
0-80	167.86	N.A.	95.30
0-90	175.68	N.A.	99.70
10-90	120.04	N.A.	68.10
20-40	23.39	N.A.	13.30
20-50	32.63	N.A.	18.50
40-70	27.76	N.A.	15.80
60-80	18.32	N.A.	10.40
70-80	9.12	N.A.	5.20
80-90	7.81	N.A.	4.40
90-110	0.50	N.A.	0.30
90-120	0.50	N.A.	0.30
90-130	0.50	N.A.	0.30
90-150	0.50	N.A.	0.30
90-180	0.50	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	176.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	55.64
10-20	51.95
20-30	13.17
30-40	10.22
40-50	9.25
50-60	9.33
60-70	9.19
70-80	9.12
80-90	7.81
90-100	0.50
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

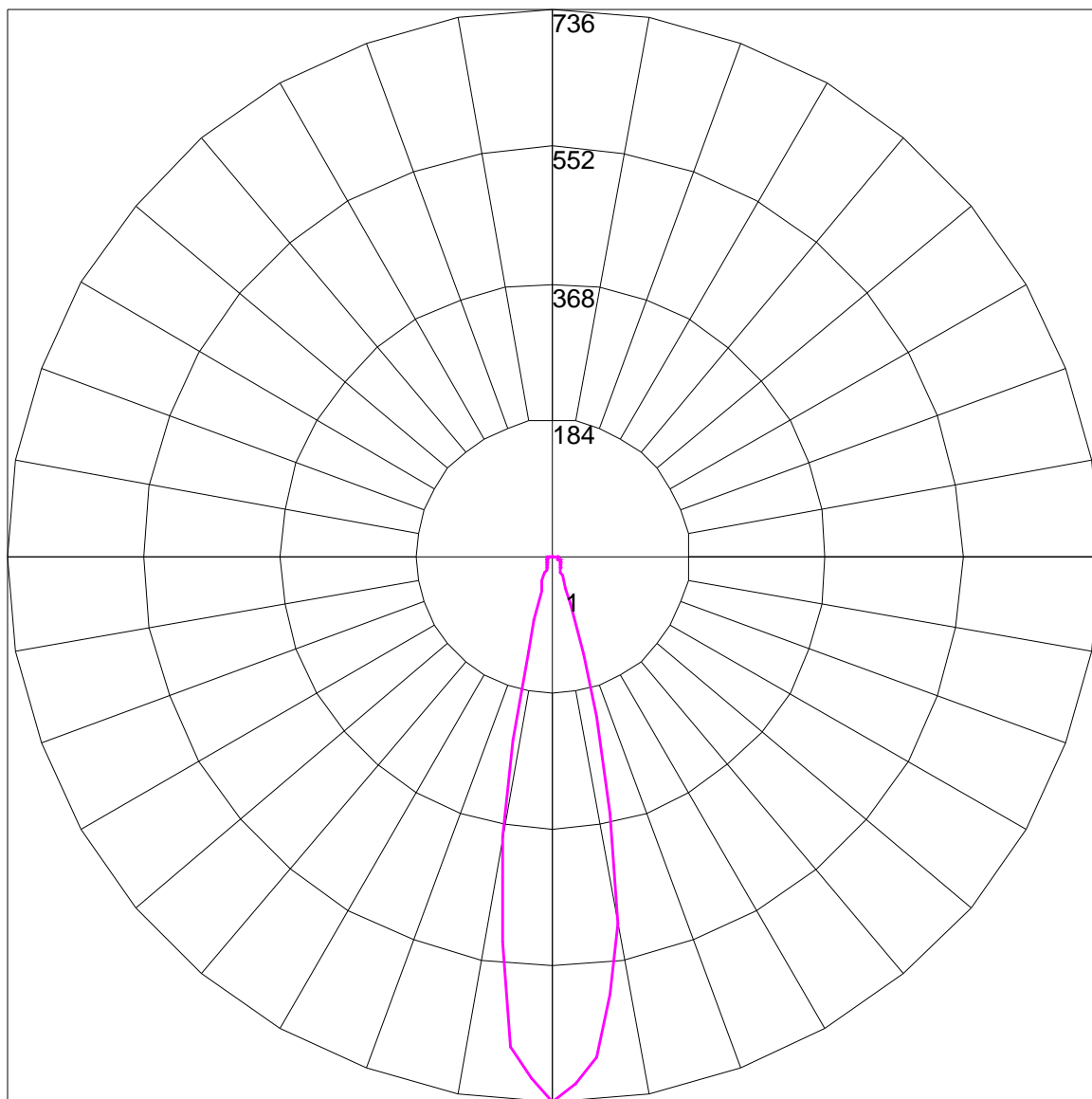
Effective Floor Cavity Reflectance 0.20

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	105	99	94	90	102	97	92	89	94	90	87	90	87	85	88	85	83	81
3	100	92	87	82	97	91	85	81	88	84	80	85	82	79	83	80	77	76
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00649\_7 ~ SS2MX-XT10L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES

## POLAR GRAPH



Maximum Candela = 735.549 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)