

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_6 ~ SS2MX-XT10L-E1-SH2BGC2-35K-MD-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00649_6_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-SH2BGC2-35K-MD-MW

[LUMINAIRE] Nom. 2" Square Downlight, Medium Beam

[OTHER] Matte White Trim, Decorative - Bubble Glass

[OTHER] 28.6 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	299
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	27
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.46
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_6 ~ SS2MX-XT10L-E1-SH2BGC2-35K-MD-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20890	14892	21005
55	15712	9385	15488
65	11403	5094	9411
75	6292	2177	4530
85	2205	763	1144

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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	781.263	781.263	781.263	781.263	781.263	781.263	781.263	781.263	781.263	781.263
2.5	781.757	773.119	771.003	769.021	773.278	760.483	765.307	775.211	782.995	792.521
5.0	765.200	761.635	752.301	754.940	729.266	720.946	753.216	731.814	776.035	780.653
7.5	730.226	710.646	703.278	675.815	655.623	610.221	649.941	649.773	704.141	719.683
10.0	659.069	650.012	624.196	593.391	542.689	486.901	520.247	529.602	604.042	627.647
12.5	544.363	517.011	466.318	445.248	398.935	337.105	379.579	377.752	474.593	477.204
15.0	420.181	371.532	325.592	301.280	286.781	219.047	236.631	265.862	335.354	344.385
17.5	286.765	265.409	219.874	216.844	194.866	154.689	169.084	181.134	237.453	238.013
20.0	190.266	163.558	139.931	138.213	134.674	107.029	111.746	128.579	150.179	157.713
22.5	123.715	117.728	102.401	102.875	90.917	82.037	90.346	93.771	108.854	109.863
25.0	85.377	74.679	75.211	71.697	70.607	65.061	71.804	75.956	75.753	78.848
27.5	65.474	64.128	61.888	61.750	59.806	57.006	62.390	65.521	65.525	64.790
30.0	55.362	53.923	52.876	53.022	52.642	50.968	53.281	57.762	57.814	54.908
32.5	50.429	49.907	48.538	48.706	46.623	46.774	47.513	50.929	49.967	48.432
35.0	45.068	45.908	43.898	44.658	43.596	42.586	41.929	45.410	42.113	43.090
37.5	39.526	42.045	38.985	41.333	41.274	38.404	38.540	40.230	40.242	38.514
40.0	37.290	38.340	35.654	38.377	39.048	35.601	35.218	36.702	38.343	34.925
42.5	36.124	35.498	33.479	36.221	36.838	33.638	32.345	33.471	35.838	31.870
45.0	34.087	32.645	30.782	33.596	34.275	31.024	29.650	30.317	33.365	29.434
47.5	31.839	29.742	27.779	30.163	31.679	28.093	27.769	27.174	31.185	27.263
50.0	29.874	27.097	25.088	27.392	29.960	25.903	25.720	25.522	29.076	24.686
52.5	27.957	25.202	22.545	25.531	28.271	23.993	23.104	23.955	27.373	21.973
55.0	26.530	23.256	20.579	23.413	26.152	21.473	20.513	21.479	25.675	20.158
57.5	25.154	21.195	18.828	21.001	23.995	18.773	17.986	19.004	24.001	18.569
60.0	23.755	19.109	16.475	18.340	21.204	16.144	15.499	16.541	21.889	16.411
62.5	22.346	16.980	13.954	15.447	18.446	13.532	13.095	14.063	18.453	14.152
65.0	19.316	14.490	11.470	12.873	15.942	11.360	10.688	11.451	15.558	11.291
67.5	16.300	11.494	8.992	10.533	13.486	9.249	8.278	9.055	13.857	8.397
70.0	13.396	9.156	7.631	8.812	11.207	7.605	6.564	7.505	12.093	7.497
72.5	11.256	7.339	6.301	7.352	9.186	6.134	5.446	6.268	10.256	6.469
75.0	10.370	6.550	4.882	6.295	7.465	5.123	4.386	5.405	8.659	5.128
77.5	9.108	5.717	3.944	5.031	6.773	3.988	3.435	4.677	7.433	4.077
80.0	7.891	4.587	3.063	3.712	6.587	2.989	2.666	3.732	6.874	3.332
82.5	6.366	3.400	2.023	3.100	5.199	2.308	2.026	2.491	3.143	2.701
85.0	3.422	2.100	1.651	2.114	1.775	1.669	1.004	1.556	1.297	1.582
87.5	1.306	1.580	1.329	1.458	0.929	1.136	1.286	1.060	1.054	1.357
90.0	0.699	0.508	0.974	0.382	0.648	0.909	0.483	0.964	0.364	0.760
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	781.263	781.263	781.263	781.263	781.263	781.263	781.263
2.5	794.067	789.059	790.448	782.059	783.023	781.878	781.757
5.0	808.080	786.963	785.920	789.729	779.137	778.945	765.200
7.5	749.226	728.967	740.243	747.375	752.422	741.171	730.226
10.0	679.949	654.764	666.038	694.677	685.180	680.631	659.069
12.5	526.076	508.567	550.353	566.220	550.576	562.444	544.363
15.0	365.245	370.607	411.665	427.216	416.367	414.226	420.181
17.5	259.030	259.245	294.425	311.214	282.699	294.467	286.765
20.0	155.970	165.608	186.872	196.929	183.701	186.523	190.266
22.5	114.990	116.309	127.187	141.260	123.187	126.910	123.715
25.0	75.998	78.468	84.185	87.878	84.292	82.913	85.377
27.5	62.843	63.397	65.442	70.611	64.830	65.487	65.474
30.0	50.721	51.983	52.984	54.307	52.985	54.356	55.362
32.5	45.877	46.348	46.450	48.864	46.834	49.195	50.429
35.0	41.065	41.511	41.046	43.622	42.107	45.025	45.068
37.5	36.399	37.704	38.985	39.765	38.236	40.418	39.526
40.0	32.392	34.381	37.326	36.073	35.002	35.764	37.290
42.5	30.691	31.570	35.244	33.130	32.077	34.287	36.124
45.0	28.706	29.001	33.138	30.500	29.108	32.934	34.087
47.5	25.972	26.636	30.983	28.900	26.122	29.478	31.839
50.0	23.569	24.641	28.837	27.156	24.306	26.127	29.874
52.5	21.843	22.909	26.907	25.036	22.828	24.488	27.957
55.0	19.940	21.072	25.073	22.860	20.982	22.813	26.530
57.5	17.738	19.176	24.141	20.571	19.058	20.846	25.154
60.0	15.330	17.109	22.859	18.607	16.900	18.882	23.755
62.5	12.643	14.966	19.464	17.166	14.708	16.932	22.346
65.0	10.402	12.552	16.412	14.939	12.315	14.819	19.316

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_6 ~ SS2MX-XT10L-E1-SH2BGC2-35K-MD-MW.IES****CANDELA TABULATION - (Cont.)**

67.5	8.631	10.043	14.676	11.695	9.926	12.131	16.300
70.0	6.994	8.382	12.844	9.278	8.011	9.871	13.396
72.5	5.437	6.957	10.847	7.449	6.494	8.293	11.256
75.0	4.885	6.096	9.446	6.735	5.863	6.960	10.370
77.5	4.052	4.887	8.468	5.843	4.678	5.702	9.108
80.0	2.797	3.668	8.075	4.547	3.490	4.384	7.891
82.5	1.718	2.877	4.238	3.609	2.559	3.471	6.366
85.0	1.385	1.721	1.797	2.587	1.904	2.449	3.422
87.5	1.182	1.497	1.108	1.551	1.823	1.360	1.306
90.0	0.424	0.872	0.802	0.560	1.033	0.467	0.699
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	164.29	N.A.	54.90
0-30	204.25	N.A.	68.30
0-40	231.66	N.A.	77.50
0-60	276.06	N.A.	92.30
0-80	296.47	N.A.	99.20
0-90	298.92	N.A.	100.00
10-90	230.88	N.A.	77.20
20-40	67.37	N.A.	22.50
20-50	91.57	N.A.	30.60
40-70	57.83	N.A.	19.30
60-80	20.41	N.A.	6.80
70-80	6.98	N.A.	2.30
80-90	2.45	N.A.	0.80
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	299.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.04
10-20	96.25
20-30	39.96
30-40	27.41
40-50	24.20
50-60	20.20
60-70	13.43
70-80	6.98
80-90	2.45
90-100	0.09
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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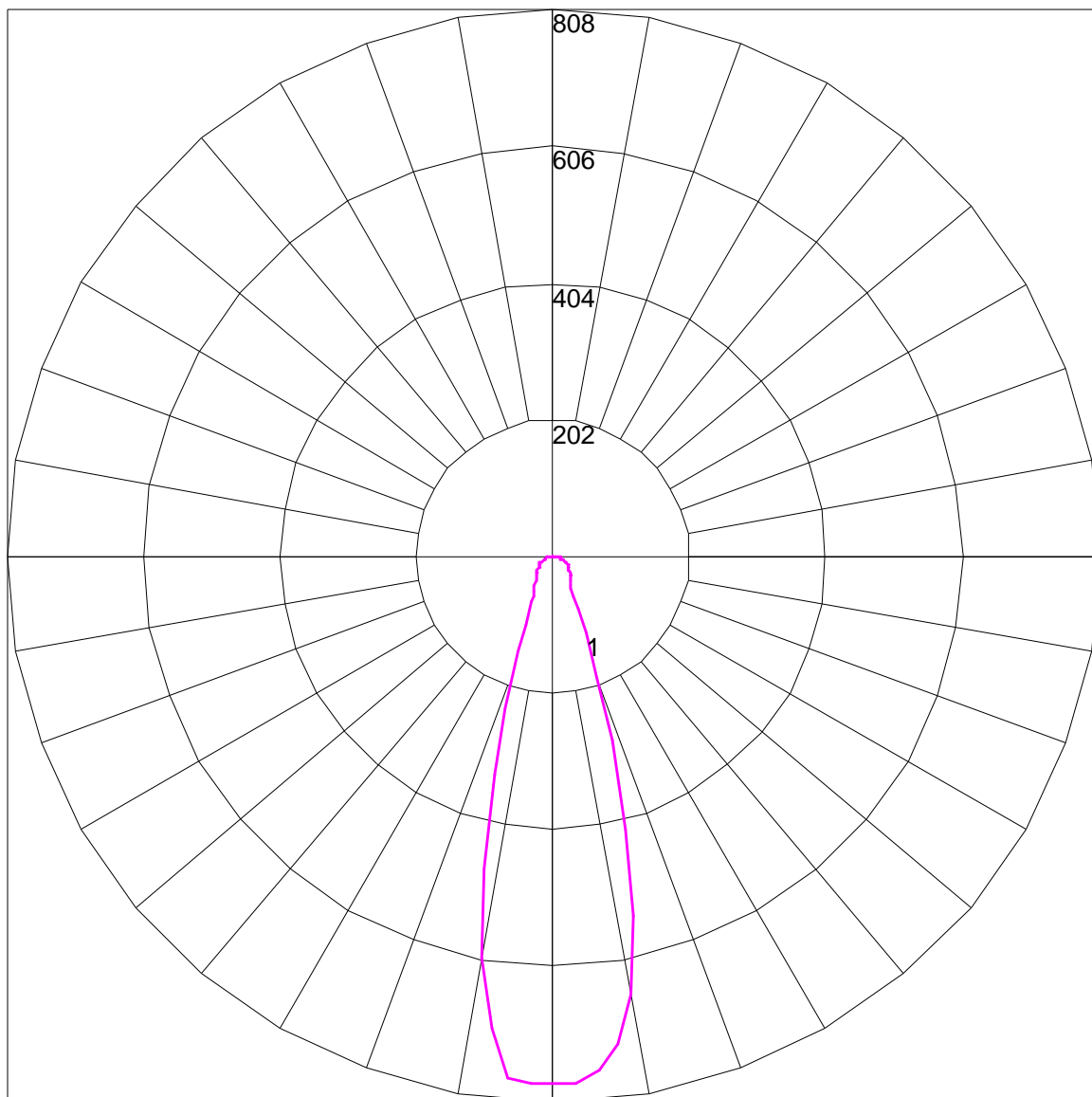
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78
4	96	88	82	78	94	87	82	77	85	80	76	83	79	75	81	77	75	73
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	71	65	61	70	64	61	68	64	61	68	63	60	59
9	77	68	62	59	76	68	62	59	67	62	58	66	61	58	65	61	58	57
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54

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PHOTOMETRIC FILENAME : SP-00649_6 ~ SS2MX-XT10L-E1-SH2BGC2-35K-MD-MW.IES

POLAR GRAPH



Maximum Candela = 808.08 Located At Horizontal Angle = 225, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)