

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00649_7 ~ SS2MX-XT20L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00649_7
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 5/16/2018
 [UPDATE] 7/12/2018
 [LUMCAT] SS2Mx-XT20L-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 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	15
Total Luminaire Watts	23.7
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-XT20L-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	14511	12592	13108
55	12219	10312	10553
65	9687	9304	9228
75	8906	8973	8586
85	7730	9059	7034

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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	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453
2.5	1476.840	1475.932	1458.488	1479.181	1478.042	1439.979	1445.525	1442.971	1457.425	1448.646
5.0	1406.377	1410.427	1377.500	1410.154	1403.667	1338.526	1344.121	1327.090	1373.052	1356.876
7.5	1238.424	1237.410	1236.837	1233.818	1218.248	1084.384	1084.980	1032.233	1086.863	1055.262
10.0	1043.943	1042.292	1024.927	1042.863	996.919	822.692	804.352	741.242	800.823	756.625
12.5	738.224	731.888	709.601	725.212	669.325	514.475	525.839	464.180	528.236	488.020
15.0	464.258	451.217	450.341	399.951	393.789	248.020	248.828	238.201	277.692	247.801
17.5	283.330	274.294	253.469	254.502	229.905	150.770	157.097	146.476	183.022	161.632
20.0	144.795	134.765	133.156	116.628	112.649	74.579	70.882	79.512	100.829	89.252
22.5	96.405	87.612	79.332	80.527	72.664	57.287	58.783	60.393	73.321	66.487
25.0	61.345	53.563	52.299	48.332	47.440	44.671	48.110	47.524	51.034	48.745
27.5	48.201	44.228	43.345	42.830	40.871	41.600	46.596	43.783	44.608	43.960
30.0	40.041	38.178	39.585	38.228	36.960	39.370	44.934	40.131	38.665	39.800
32.5	38.134	36.820	38.471	37.391	35.668	38.472	42.670	36.582	33.782	36.829
35.0	34.846	34.654	37.101	35.678	32.160	35.736	39.228	32.077	29.802	33.491
37.5	30.227	31.604	35.633	31.406	26.950	30.774	32.410	26.725	27.328	29.612
40.0	27.292	28.800	31.810	28.014	24.012	27.327	27.588	23.907	24.878	26.912
42.5	25.640	26.208	27.347	26.519	22.403	25.289	26.938	22.811	22.460	25.551
45.0	23.678	24.709	26.028	25.308	21.389	24.129	25.762	21.677	21.276	24.015
47.5	21.536	23.934	25.257	24.557	20.637	23.613	23.739	20.525	21.316	22.328
50.0	21.097	23.043	25.144	23.495	19.453	22.533	22.404	20.688	20.442	21.812
52.5	21.392	22.094	25.093	22.043	18.129	21.137	21.919	21.364	18.853	22.103
55.0	20.632	21.479	22.612	21.020	17.819	19.990	21.343	20.643	17.715	21.479
57.5	19.531	20.992	20.185	20.417	17.730	18.948	20.678	19.539	16.846	20.379
60.0	18.472	20.958	20.446	19.867	16.892	18.695	20.329	18.545	16.590	19.830
62.5	17.422	21.043	20.706	19.356	15.954	18.684	20.215	17.572	16.608	19.492
65.0	16.409	20.456	20.952	18.572	15.632	18.869	19.572	17.720	15.905	19.464
67.5	15.405	19.756	20.992	17.631	15.371	19.094	18.629	17.942	14.962	19.524
70.0	15.863	19.468	20.258	17.661	15.460	17.826	18.491	16.740	14.946	18.209
72.5	15.861	19.287	19.948	17.985	15.179	16.902	18.635	16.341	14.907	17.198
75.0	14.677	19.388	20.122	18.352	14.150	17.353	19.433	17.833	14.145	17.978
77.5	14.039	19.514	20.343	17.846	13.172	16.705	19.184	17.018	13.586	17.772
80.0	13.682	19.399	19.953	16.981	12.649	16.210	18.464	16.582	12.886	17.989
82.5	13.204	18.957	19.407	17.250	12.281	16.439	18.988	17.709	11.805	19.275
85.0	11.996	19.073	19.613	15.409	10.917	14.678	18.306	17.271	11.682	16.027
87.5	10.805	17.721	16.333	13.712	9.841	12.994	14.662	12.865	8.478	15.001
90.0	6.045	11.391	10.540	3.708	6.357	8.789	4.341	8.945	4.268	9.517
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	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453	1524.453
2.5	1457.657	1450.759	1466.456	1488.126	1475.976	1476.707	1476.840
5.0	1367.855	1325.939	1389.919	1436.849	1401.590	1413.364	1406.377
7.5	1105.800	1041.537	1128.227	1211.970	1234.252	1250.307	1238.424
10.0	795.517	757.706	854.013	976.850	1017.484	1078.544	1043.943
12.5	530.518	475.150	586.505	662.906	690.215	756.519	738.224
15.0	274.170	260.274	328.451	380.985	420.585	450.202	464.258
17.5	173.556	158.453	217.596	244.570	250.196	286.547	283.330
20.0	89.286	89.600	116.147	129.668	131.863	141.819	144.795
22.5	66.477	62.725	80.085	83.369	81.744	95.675	96.405
25.0	46.106	46.243	49.602	49.117	52.416	57.447	61.345
27.5	44.779	40.226	43.265	42.426	44.025	46.256	48.201
30.0	43.231	36.169	37.672	37.659	39.668	38.046	40.041
32.5	39.565	33.629	34.311	36.225	38.524	37.193	38.134
35.0	35.902	31.441	31.117	34.172	36.661	35.818	34.846
37.5	32.258	29.463	28.284	31.290	34.360	33.474	30.227
40.0	29.096	28.312	26.101	28.701	31.758	31.044	27.292
42.5	27.661	27.537	24.990	26.413	29.019	28.493	25.640
45.0	26.580	25.740	23.854	24.918	26.983	26.547	23.678
47.5	26.392	23.609	22.685	24.056	25.187	25.272	21.536
50.0	25.834	23.525	21.919	23.719	25.058	25.011	21.097
52.5	24.583	23.906	21.548	23.706	25.318	25.614	21.392
55.0	23.376	23.935	21.135	23.237	24.754	24.925	20.632
57.5	22.230	23.916	20.690	22.557	24.074	23.392	19.531
60.0	21.674	22.467	20.010	21.517	23.070	22.465	18.472
62.5	21.776	20.934	19.193	20.353	22.044	21.846	17.422
65.0	21.801	20.052	18.183	20.022	22.474	21.344	16.409

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00649_7 ~ SS2MX-XT20L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES****CANDELA TABULATION - (Cont.)**

67.5	21.761	19.241	17.088	19.889	22.776	20.887	15.405
70.0	20.855	18.964	16.843	19.781	22.099	20.219	15.863
72.5	19.538	19.127	16.596	19.675	21.501	19.778	15.861
75.0	19.473	20.001	14.951	19.569	21.035	20.854	14.677
77.5	19.795	18.401	13.677	19.705	20.872	20.347	14.039
80.0	20.282	16.821	12.820	19.397	21.127	19.174	13.682
82.5	19.457	16.450	12.344	17.966	21.476	18.900	13.204
85.0	19.334	16.527	10.866	16.980	20.401	19.419	11.996
87.5	15.806	13.603	8.961	15.472	18.240	17.915	10.805
90.0	4.378	8.960	6.133	10.409	12.986	4.462	6.045
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	222.98	N.A.	61.10
0-30	250.27	N.A.	68.50
0-40	271.45	N.A.	74.30
0-60	309.94	N.A.	84.90
0-80	347.90	N.A.	95.30
0-90	364.09	N.A.	99.70
10-90	248.78	N.A.	68.10
20-40	48.47	N.A.	13.30
20-50	67.63	N.A.	18.50
40-70	57.54	N.A.	15.80
60-80	37.96	N.A.	10.40
70-80	18.90	N.A.	5.20
80-90	16.20	N.A.	4.40
90-110	1.04	N.A.	0.30
90-120	1.04	N.A.	0.30
90-130	1.04	N.A.	0.30
90-150	1.04	N.A.	0.30
90-180	1.04	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	365.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.31
10-20	107.67
20-30	27.29
30-40	21.18
40-50	19.16
50-60	19.33
60-70	19.06
70-80	18.90
80-90	16.20
90-100	1.04
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

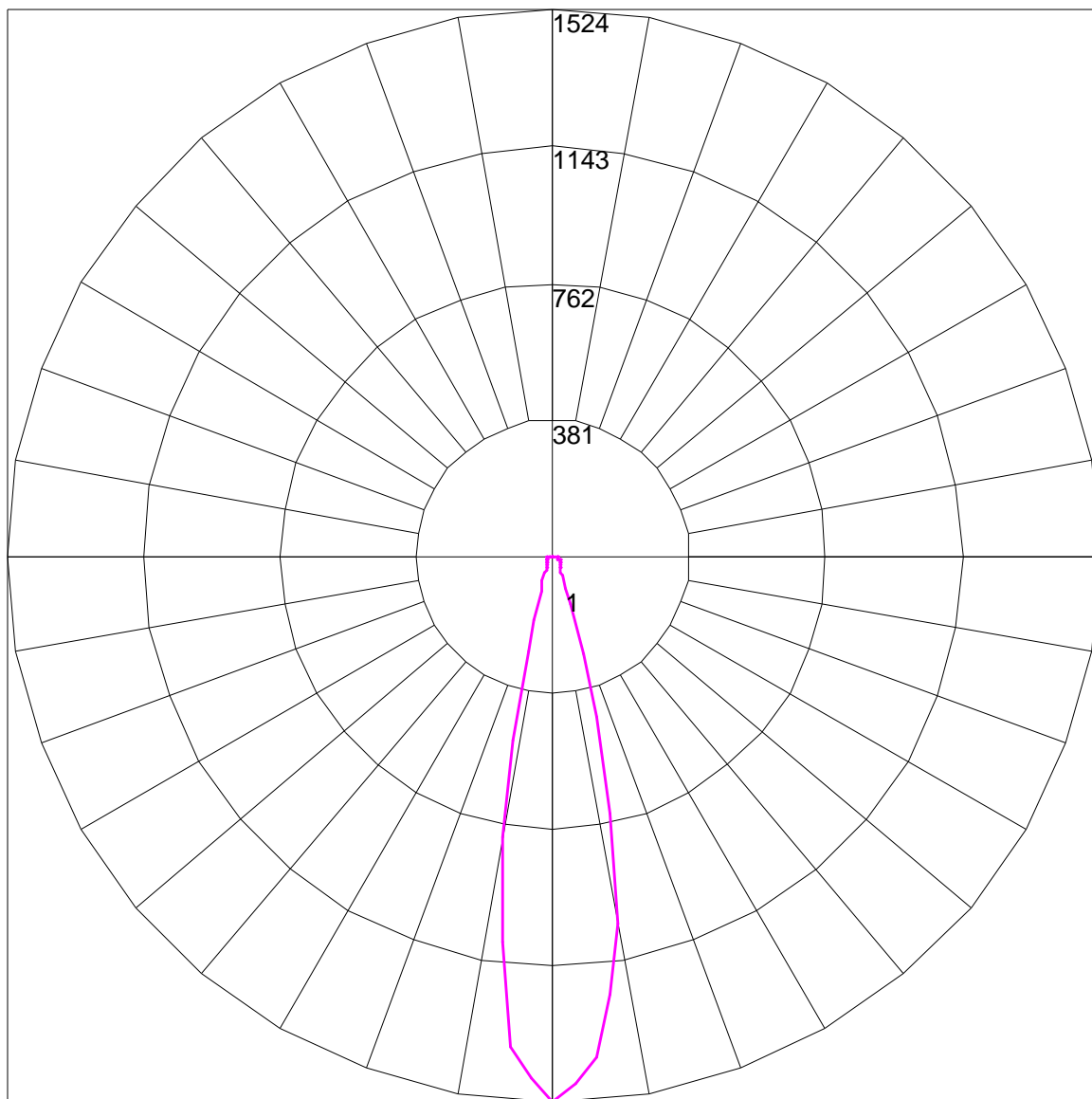
Effective Floor Cavity Reflectance 0.20

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	86	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	81	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	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	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-XT20L-E1-SH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES

POLAR GRAPH



Maximum Candela = 1524.453 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)