

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_10 ~ SR2MX-XT20L-E1-RH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_10
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 5/16/2018
[UPDATE] 7/12/2018
[LUMCAT] SR2MX-XT20L-E1-RH2FGC2-35K-MD-MW
[LUMINAIRE] Nominal 3" Round Downlight, Medium Beam
[OTHER] Matte White Trim, Decorative Round Trim - Frosted Glass
[OTHER] Interior of glass accent also frosted
[OTHER] 23.5 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: SR2MO-XT-series
[OTHER] For Remodel/Retrofit Housing: SR2MR-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	499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.13 ft (Diameter)
Luminous Width (90-270)	0.13 ft (Diameter)
Luminous Height	0.18 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_10 ~ SR2MX-XT20L-E1-RH2FG(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	14497	13299	12611
55	11449	10673	9970
65	10740	9382	8251
75	9679	8325	8035
85	9963	8838	7793

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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	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457
2.5	1961.470	1939.962	1941.590	1953.049	1971.179	1974.916	1988.687	2003.122	2025.462	2047.072
5.0	1861.818	1872.820	1877.185	1887.595	1892.851	1894.718	1898.121	1900.292	1897.513	1897.499
7.5	1743.759	1725.697	1710.887	1713.473	1723.622	1734.131	1747.557	1740.857	1733.035	1717.687
10.0	1433.091	1392.101	1362.020	1358.475	1387.144	1418.531	1435.738	1435.934	1413.921	1378.403
12.5	967.049	921.902	891.609	895.318	927.983	981.780	1009.605	1007.724	976.336	930.983
15.0	515.316	490.611	472.762	490.326	522.445	578.806	606.842	613.104	572.228	518.223
17.5	257.379	249.662	246.663	265.403	290.863	320.613	336.552	335.209	300.873	257.576
20.0	132.816	129.748	127.859	140.603	151.673	171.702	173.911	164.405	141.096	120.204
22.5	73.185	73.140	69.577	72.479	79.721	88.815	91.610	90.001	79.711	70.950
25.0	51.206	50.592	49.560	51.011	51.891	52.838	54.277	56.540	60.380	62.589
27.5	45.184	46.046	44.068	44.798	45.836	45.659	46.767	53.086	59.206	62.777
30.0	45.771	44.029	42.933	42.315	41.951	43.962	46.014	54.817	60.546	66.123
32.5	47.514	43.229	41.617	42.285	39.976	45.510	47.848	55.049	61.734	65.388
35.0	48.383	43.021	39.831	39.196	38.653	43.091	45.868	50.860	58.644	62.145
37.5	45.345	39.531	36.729	38.490	35.362	37.781	41.258	44.382	48.249	52.126
40.0	35.778	35.435	32.550	33.581	32.123	32.879	33.608	36.098	39.571	40.934
42.5	34.122	32.864	30.974	30.357	29.688	29.749	31.431	32.960	35.142	36.620
45.0	32.550	30.927	29.859	28.543	28.316	28.021	29.526	30.969	31.485	33.814
47.5	30.425	29.160	28.818	27.912	26.691	27.469	27.487	29.192	28.553	31.597
50.0	29.066	27.693	27.333	25.792	25.106	27.368	25.024	27.691	26.653	28.969
52.5	28.043	26.795	25.624	23.687	24.055	27.403	24.300	26.147	25.385	27.062
55.0	26.572	26.514	24.771	23.185	23.138	24.949	25.043	24.523	24.395	26.243
57.5	24.998	25.948	24.127	22.794	22.586	22.756	24.224	23.085	23.828	25.392
60.0	24.588	25.150	23.043	22.954	21.700	22.309	22.774	21.842	23.328	24.513
62.5	24.356	24.633	21.888	22.810	20.115	21.848	21.123	21.232	21.812	23.477
65.0	24.980	24.303	21.820	21.572	19.191	21.326	19.415	21.147	20.216	22.335
67.5	25.529	23.099	21.746	20.384	19.315	20.848	19.344	20.306	20.300	21.546
70.0	24.918	21.544	20.306	19.297	18.922	20.510	19.616	18.965	20.395	20.947
72.5	23.734	21.858	19.262	18.581	18.095	19.482	19.392	18.110	20.243	20.029
75.0	21.876	21.663	18.817	18.150	18.161	17.516	18.963	17.466	19.975	19.132
77.5	22.007	20.757	20.025	18.415	17.804	16.558	17.960	17.440	19.515	18.888
80.0	21.068	19.514	19.768	18.638	16.882	16.304	17.398	18.272	20.148	17.871
82.5	22.137	18.774	18.989	18.409	17.791	16.860	16.273	18.927	20.306	17.205
85.0	21.180	17.642	18.789	17.583	16.566	15.090	14.279	17.185	19.151	17.284
87.5	16.754	14.618	16.409	14.129	14.536	12.557	13.537	14.769	16.094	13.978
90.0	0.000	0.000	0.000	0.000	0.000	9.582	11.027	10.687	10.736	10.637
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	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457	2098.457
2.5	2076.157	2105.085	2120.234	2097.229	2056.601	2007.516	1961.470
5.0	1902.276	1907.505	1913.695	1906.145	1883.968	1860.849	1861.818
7.5	1708.105	1711.902	1731.176	1746.396	1750.884	1750.397	1743.759
10.0	1353.190	1360.902	1392.235	1439.192	1462.733	1456.399	1433.091
12.5	894.383	894.624	923.867	978.030	1005.726	1001.307	967.049
15.0	477.265	456.187	476.866	518.998	547.465	543.561	515.316
17.5	227.502	221.261	227.920	246.943	255.411	261.090	257.379
20.0	105.323	104.492	118.080	126.095	128.944	135.333	132.816
22.5	66.181	61.675	65.880	70.977	74.951	75.933	73.185
25.0	62.016	57.704	54.042	50.735	52.859	50.921	51.206
27.5	65.674	62.826	59.341	50.611	47.523	47.076	45.184
30.0	67.494	67.548	66.105	56.424	54.592	48.928	45.771
32.5	67.870	67.199	68.656	61.181	59.489	53.179	47.514
35.0	63.909	65.839	64.263	62.743	59.336	54.658	48.383
37.5	54.119	57.159	57.363	54.809	51.704	48.370	45.345
40.0	42.970	44.689	43.807	44.787	42.305	40.652	35.778
42.5	37.174	36.106	36.999	36.660	36.304	34.361	34.122
45.0	33.906	34.171	34.778	35.007	33.150	32.928	32.550
47.5	31.529	32.374	32.521	32.634	30.869	31.900	30.425
50.0	29.587	30.721	31.100	29.910	30.285	31.593	29.066
52.5	27.610	29.044	30.354	29.303	29.289	30.383	28.043
55.0	25.844	27.360	28.888	28.989	27.349	28.368	26.572
57.5	24.866	26.581	27.177	28.124	26.047	26.938	24.998
60.0	24.248	25.882	26.419	27.225	25.854	25.899	24.588
62.5	24.548	24.858	25.872	25.183	25.507	25.890	24.356
65.0	24.204	23.874	24.653	23.429	24.945	26.440	24.980

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_10 ~ SR2MX-XT20L-E1-RH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES****CANDELA TABULATION - (Cont.)**

67.5	22.567	24.218	23.330	24.132	24.078	25.681	25.529
70.0	21.283	24.152	23.166	24.083	22.972	24.494	24.918
72.5	20.437	22.363	22.956	22.644	23.388	22.737	23.734
75.0	20.740	21.368	22.506	21.789	23.507	22.133	21.876
77.5	21.162	21.057	22.761	21.670	22.823	22.472	22.007
80.0	20.089	20.279	22.482	21.914	23.145	21.763	21.068
82.5	20.326	19.473	20.276	20.116	22.832	21.458	22.137
85.0	19.235	20.190	18.048	18.528	19.088	22.220	21.180
87.5	15.321	16.159	16.649	15.506	15.781	18.752	16.754
90.0	11.011	12.575	12.113	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

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Zone	Lumens	%Lamp	%Fixt
0-20	326.09	N.A.	65.30
0-30	357.06	N.A.	71.50
0-40	388.11	N.A.	77.70
0-60	436.34	N.A.	87.40
0-80	480.63	N.A.	96.30
0-90	498.52	N.A.	99.80
10-90	331.76	N.A.	66.40
20-40	62.02	N.A.	12.40
20-50	86.87	N.A.	17.40
40-70	70.90	N.A.	14.20
60-80	44.29	N.A.	8.90
70-80	21.63	N.A.	4.30
80-90	17.88	N.A.	3.60
90-110	0.76	N.A.	0.20
90-120	0.76	N.A.	0.20
90-130	0.76	N.A.	0.20
90-150	0.76	N.A.	0.20
90-180	0.76	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	499.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.76
10-20	159.33
20-30	30.97
30-40	31.04
40-50	24.85
50-60	23.39
60-70	22.66
70-80	21.63
80-90	17.88
90-100	0.76
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

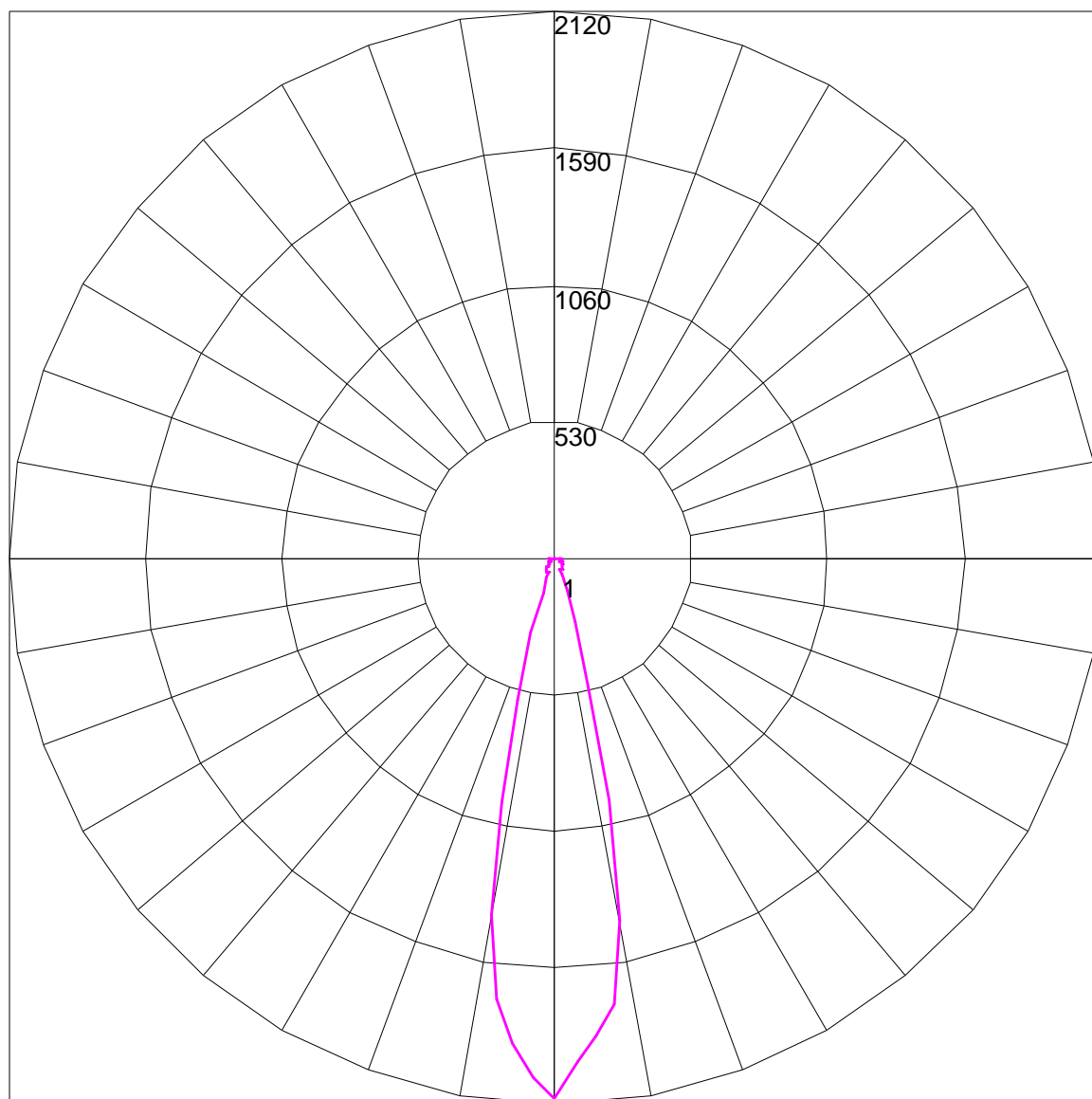
Effective Floor Cavity Reflectance 0.20

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	112	108	105	102	109	106	103	101	102	100	97	98	96	94	94	93	92	90
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	89	81	75	71	88	80	75	71	79	74	71	77	73	70	76	72	70	68
7	86	78	72	68	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_10 ~ SR2MX-XT20L-E1-RH2FG(WHITE INTERIOR)C2-35K-MD-MW.IES

POLAR GRAPH



Maximum Candela = 2120.234 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)