

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_9 ~ SR2MX-XT10L-E1-RH2BGC2-35K-MD-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00648_9_M-10L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 5/16/2018

[UPDATE] 7/12/2018

[LUMCAT] SR2Mx-XT10L-E1-RH2BGC2-35K-MD-MW

[LUMINAIRE] Nominal 2" Round Downlight, Medium Beam

[OTHER] Matte White Trim, Decorative Round Trim - Bubble Glass

[OTHER] 28.9 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 New Construction IC Rated Housing: SR2MI-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, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	11.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.50
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_9 ~ SR2MX-XT10L-E1-RH2BGC2-35K-MD-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14126	15006	15790
55	8491	9758	9895
65	4576	5519	5393
75	1691	1619	1756
85	794	709	603

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_9 ~ SR2MX-XT10L-E1-RH2BGC2-35K-MD-MW.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	966.861	966.861	966.861	966.861	966.861	966.861	966.861	966.861	966.861	966.861
2.5	969.037	967.508	965.095	962.875	960.608	948.124	946.941	937.790	941.515	939.792
5.0	998.826	987.875	971.768	951.275	931.094	904.886	901.068	915.126	926.831	938.877
7.5	950.361	954.494	939.983	936.573	927.674	911.607	908.364	910.563	920.388	913.258
10.0	831.314	848.279	840.048	864.698	864.792	825.697	829.541	811.847	816.063	786.652
12.5	657.088	683.351	678.666	717.160	707.798	643.725	647.980	619.255	626.391	595.735
15.0	483.465	504.349	493.736	522.080	508.794	442.190	444.110	424.340	438.570	413.725
17.5	361.503	376.763	367.732	376.623	356.629	307.841	308.455	293.984	300.014	295.272
20.0	252.804	267.953	265.804	282.194	266.043	230.185	222.188	200.102	204.050	206.336
22.5	172.614	180.947	176.138	191.530	188.488	170.104	162.423	143.367	145.515	141.418
25.0	107.738	113.012	110.933	126.217	129.409	115.979	110.453	100.181	101.034	95.576
27.5	68.860	69.928	69.024	80.092	85.474	83.652	83.309	77.511	78.546	79.113
30.0	54.738	55.122	57.042	63.753	68.688	69.843	70.192	67.116	68.663	69.108
32.5	46.469	47.301	47.766	52.459	57.884	61.541	62.544	61.002	64.666	64.531
35.0	42.894	44.154	46.058	49.361	52.941	55.537	58.501	57.288	60.269	59.343
37.5	40.707	41.726	43.378	46.589	47.746	49.072	50.890	49.808	55.096	53.131
40.0	37.921	39.899	41.138	43.472	43.130	42.334	44.242	44.124	48.103	46.503
42.5	35.026	36.435	37.746	38.024	38.484	37.387	38.784	39.712	41.966	42.491
45.0	31.716	33.418	33.693	35.240	35.452	34.133	33.919	33.948	36.698	36.856
47.5	29.400	29.750	29.307	32.067	31.269	29.370	30.529	31.447	33.761	34.500
50.0	26.816	27.189	27.812	29.319	27.883	28.429	28.848	29.419	31.512	31.463
52.5	23.542	24.981	25.237	26.008	25.364	25.470	26.216	26.251	27.597	27.321
55.0	19.706	21.691	22.646	21.900	22.965	21.801	22.305	22.991	23.347	23.367
57.5	17.663	19.258	20.430	20.136	19.626	18.962	19.946	20.616	20.378	20.798
60.0	15.422	16.903	18.087	17.975	17.020	17.139	17.841	18.119	17.931	18.111
62.5	12.817	14.621	15.659	15.413	15.325	15.639	16.003	15.571	15.686	15.380
65.0	10.643	12.256	12.837	12.759	12.543	11.939	12.892	11.745	11.593	11.194
67.5	8.762	9.831	10.043	10.069	9.208	8.465	9.287	8.144	7.733	7.366
70.0	6.554	7.644	7.314	7.609	7.162	6.157	6.865	5.711	5.745	5.466
72.5	4.352	5.572	5.225	5.324	5.426	4.362	4.774	3.865	4.221	3.911
75.0	3.822	4.242	3.659	3.751	3.970	3.276	3.557	2.820	3.419	2.837
77.5	3.246	3.437	3.233	3.107	3.179	2.899	2.624	2.206	3.074	2.515
80.0	2.665	3.057	2.556	2.774	2.597	2.400	2.040	1.728	2.482	2.109
82.5	2.215	2.432	1.949	2.034	1.421	1.748	1.809	1.392	1.655	1.640
85.0	1.688	1.445	1.508	1.716	1.282	1.246	1.158	1.263	1.159	1.348
87.5	0.931	0.909	1.172	1.032	0.927	1.081	1.117	1.043	0.925	0.954
90.0	0.842	0.360	0.644	0.872	0.718	0.585	0.729	0.613	0.628	0.706
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	966.861	966.861	966.861	966.861	966.861	966.861	966.861
2.5	947.635	957.510	966.019	965.327	969.105	968.994	969.037
5.0	948.652	955.333	967.807	984.437	995.393	999.270	998.826
7.5	911.822	900.813	910.505	941.804	948.481	957.932	950.361
10.0	792.115	762.944	776.361	833.259	831.636	850.756	831.314
12.5	607.413	577.813	592.566	658.954	654.661	677.593	657.088
15.0	434.822	420.009	431.399	481.480	476.961	498.502	483.465
17.5	319.807	304.510	310.236	351.345	355.461	369.321	361.503
20.0	220.533	209.108	212.542	242.816	245.347	260.644	252.804
22.5	153.070	145.236	148.332	169.012	173.846	179.740	172.614
25.0	96.619	88.283	88.116	105.630	106.646	114.330	107.738
27.5	75.404	68.922	63.627	67.238	66.344	70.323	68.860
30.0	64.362	57.533	53.879	54.143	54.453	55.474	54.738
32.5	58.555	52.183	47.241	46.222	46.162	46.757	46.469
35.0	54.674	47.255	43.620	42.261	41.803	43.414	42.894
37.5	48.779	43.192	39.083	38.867	38.985	39.634	40.707
40.0	43.360	37.277	34.114	35.981	35.487	38.185	37.921
42.5	39.828	35.470	31.178	31.225	32.351	33.369	35.026
45.0	35.509	32.805	28.380	27.679	29.598	30.198	31.716
47.5	33.217	29.249	25.262	24.473	25.858	27.471	29.400
50.0	30.124	26.113	22.494	22.150	23.357	24.398	26.816
52.5	25.718	22.621	19.569	19.735	20.609	21.389	23.542
55.0	22.682	18.998	16.672	16.708	17.565	18.346	19.706
57.5	20.151	16.283	14.362	14.689	15.040	16.486	17.663
60.0	17.549	13.970	12.556	12.712	12.830	14.387	15.422
62.5	14.345	11.920	11.009	10.732	10.820	11.732	12.817
65.0	11.148	9.230	8.821	9.014	9.091	9.575	10.643

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_9 ~ SR2MX-XT10L-E1-RH2BGC2-35K-MD-MW.IES****CANDELA TABULATION - (Cont.)**

67.5	7.959	6.426	6.617	7.498	7.413	7.799	8.762
70.0	5.831	4.742	5.246	5.901	5.716	6.014	6.554
72.5	4.444	3.445	4.173	4.296	4.278	4.271	4.352
75.0	3.797	3.174	3.707	3.404	3.497	4.042	3.822
77.5	3.151	2.672	2.820	2.791	2.757	3.408	3.246
80.0	2.408	2.068	2.050	2.453	2.269	2.490	2.665
82.5	1.789	1.497	1.541	2.134	1.964	1.960	2.215
85.0	0.843	1.120	0.965	1.092	1.048	1.137	1.688
87.5	0.920	0.732	0.791	0.946	0.711	1.148	0.931
90.0	0.227	0.629	0.586	0.287	0.731	0.337	0.842
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	218.76	N.A.	59.70
0-30	273.67	N.A.	74.70
0-40	304.93	N.A.	83.20
0-60	349.73	N.A.	95.50
0-80	364.74	N.A.	99.60
0-90	366.24	N.A.	100.00
10-90	278.75	N.A.	76.10
20-40	86.17	N.A.	23.50
20-50	111.94	N.A.	30.60
40-70	55.77	N.A.	15.20
60-80	15.01	N.A.	4.10
70-80	4.03	N.A.	1.10
80-90	1.50	N.A.	0.40
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	366.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.49
10-20	131.27
20-30	54.91
30-40	31.26
40-50	25.77
50-60	19.02
60-70	10.97
70-80	4.03
80-90	1.50
90-100	0.08
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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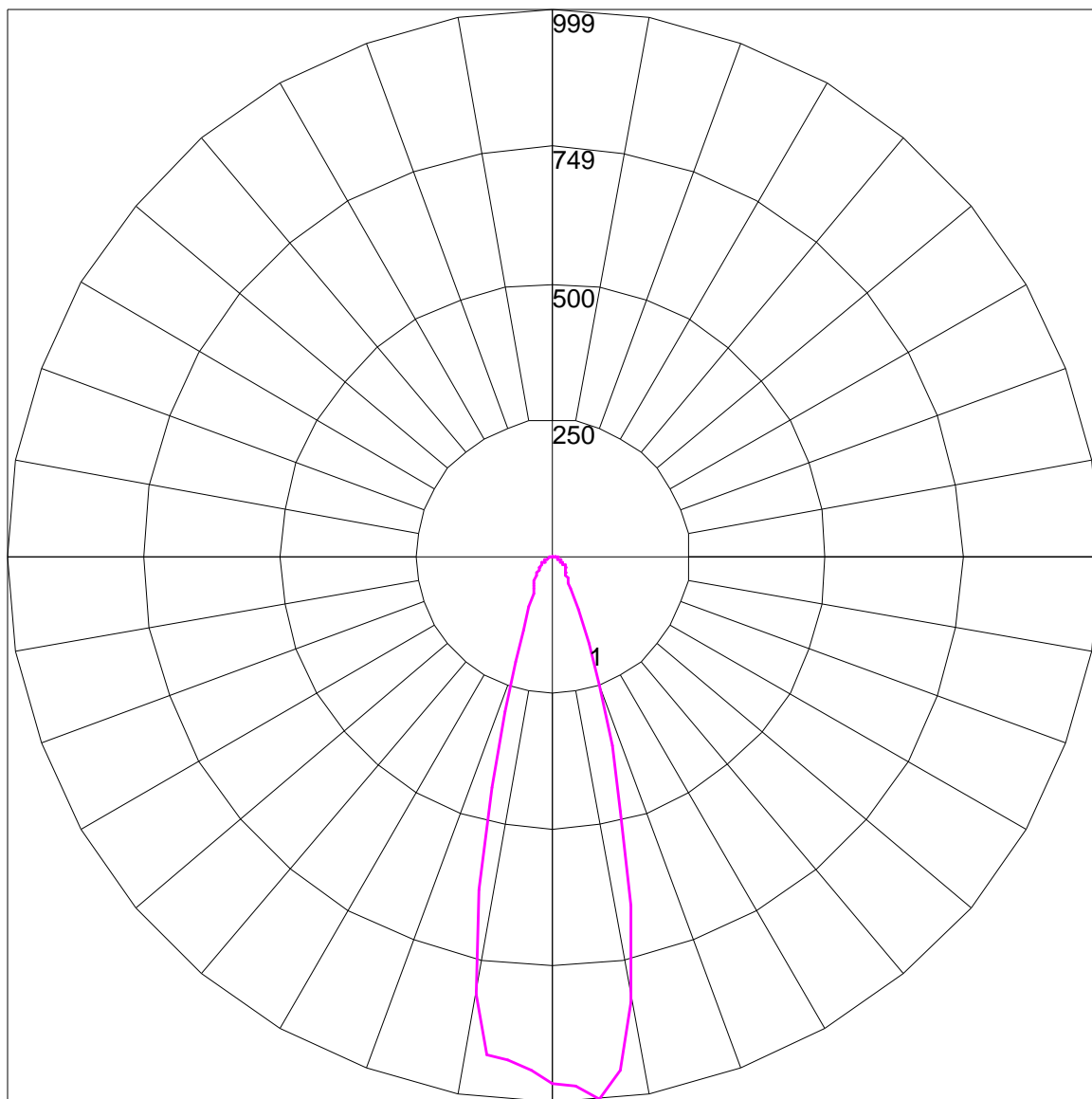
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	70	69
7	87	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00648_9 ~ SR2MX-XT10L-E1-RH2BGC2-35K-MW.IES

POLAR GRAPH



Maximum Candela = 999.27 Located At Horizontal Angle = 337.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)