

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_2 ~ SR2MRX-XT20LE1-XD2FXXK-WDMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00544\_2  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 12/28/2016  
[UPDATE] 4/19/2017  
[LUMCAT] SR2MRx-XT20L-E1-xD2F-xxK-WD-MW-NL  
[LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Wide Beam  
[OTHER] Matte White Trim, No lens  
[OTHER] 51.2 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] For RD2F or SD2F Downlight Trim  
[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	1906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.24 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_2 ~ SR2MRX-XT20LE1-XD2FXXK-WDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	54746	57591	57123
55	2058	2205	2284
65	1856	1935	1619
75	1783	1513	2001
85	3513	3067	1758

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_2 ~ SR2MRX-XT20LE1-XD2FXXK-WDMWNL.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	2462.064	2462.064	2462.064	2462.064	2462.064
<b>5</b>	2417.222	2415.581	2413.940	2413.530	2413.119
<b>10</b>	2255.075	2258.441	2261.807	2259.511	2257.215
<b>15</b>	1983.853	1990.576	1997.299	1992.585	1987.871
<b>20</b>	1631.010	1637.626	1644.241	1647.392	1650.542
<b>25</b>	1268.959	1270.792	1272.625	1273.908	1275.191
<b>30</b>	947.718	945.622	943.525	945.881	948.236
<b>35</b>	625.381	627.771	630.160	633.666	637.171
<b>40</b>	342.289	344.814	347.338	349.872	352.406
<b>45</b>	156.134	160.191	164.248	163.582	162.915
<b>50</b>	14.386	21.335	28.284	32.375	36.465
<b>55</b>	4.762	4.932	5.102	5.193	5.283
<b>60</b>	3.711	3.992	4.272	4.481	4.690
<b>65</b>	3.164	3.231	3.298	3.029	2.760
<b>70</b>	2.453	2.384	2.315	2.690	3.064
<b>75</b>	1.861	1.720	1.579	1.834	2.089
<b>80</b>	1.614	1.317	1.019	1.151	1.283
<b>85</b>	1.235	1.157	1.078	0.848	0.618
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	777.13	N.A.	40.80
0-30	1363.54	N.A.	71.50
0-40	1758.87	N.A.	92.30
0-60	1900.39	N.A.	99.70
0-80	1905.55	N.A.	100.00
0-90	1906.43	N.A.	100.00
10-90	1680.94	N.A.	88.20
20-40	981.75	N.A.	51.50
20-50	1114.17	N.A.	58.40
40-70	144.74	N.A.	7.60
60-80	5.16	N.A.	0.30
70-80	1.93	N.A.	0.10
80-90	0.88	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1906.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	225.49
10-20	551.64
20-30	586.42
30-40	395.33
40-50	132.43
50-60	9.09
60-70	3.23
70-80	1.93
80-90	0.88
90-100	0.00
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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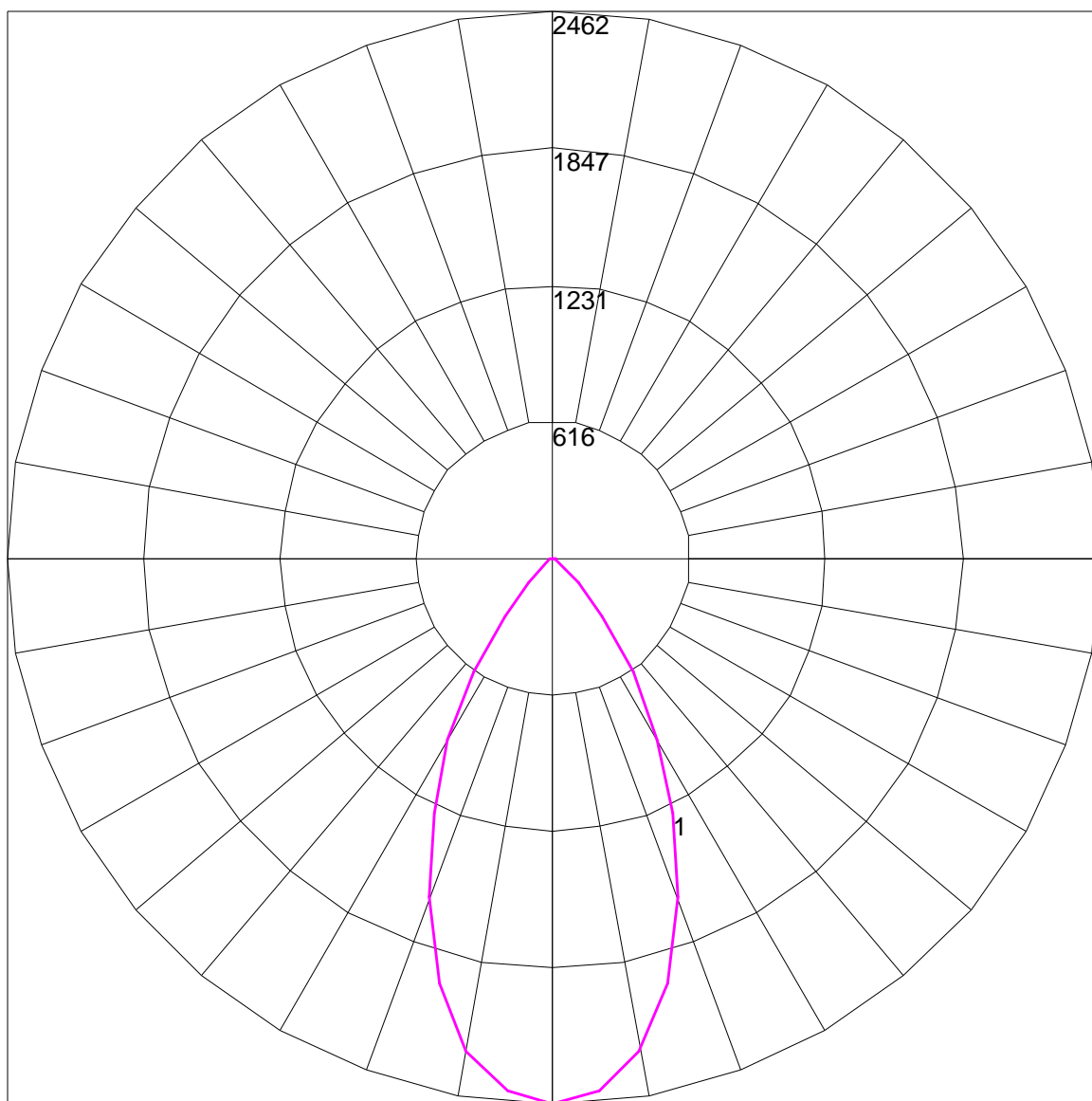
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

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POLAR GRAPH



Maximum Candela = 2462.064 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)