

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_3 ~ SR2MRX-XT20LE1-XD2FXXK-XNMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00544\_3\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 2/20/2017  
[UPDATE] 4/19/2017  
[LUMCAT] SR2MRx-XT20L-E1-xD2F-xxK-XN-MW-GL  
[LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Xtra Narrow Beam  
[OTHER] Matte White Trim, clear glass lens  
[OTHER] 14.6 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: 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, scaled from 13L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.26
Spacing Criterion (Diagonal)	0.26
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\_3 ~ SR2MRX-XT20LE1-XD2FXXK-XNMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24837	22923	21682
55	10778	11094	10859
65	6125	6638	6725
75	4480	4738	4472
85	0	0	7655

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	11987.250	11987.250	11987.250	11987.250	11987.250
<b>5</b>	8868.229	8721.976	8490.823	8227.433	8124.629
<b>10</b>	2585.201	2500.139	2716.132	2995.195	3244.903
<b>15</b>	1184.425	1168.006	1143.690	1140.545	1160.911
<b>20</b>	891.239	891.638	893.145	886.273	881.473
<b>25</b>	823.087	828.585	818.714	822.605	817.000
<b>30</b>	755.820	759.621	760.610	762.924	765.936
<b>35</b>	443.473	443.600	444.482	445.870	469.947
<b>40</b>	114.398	129.686	126.655	130.779	141.334
<b>45</b>	70.834	74.485	65.375	59.812	61.838
<b>50</b>	48.770	51.931	38.019	34.339	33.455
<b>55</b>	24.934	28.042	25.664	23.691	25.122
<b>60</b>	16.803	16.551	16.673	16.108	18.350
<b>65</b>	10.440	9.313	11.314	11.451	11.463
<b>70</b>	8.449	9.260	8.516	8.896	10.703
<b>75</b>	4.677	3.894	4.946	4.074	4.668
<b>80</b>	1.845	2.506	2.083	2.749	2.525
<b>85</b>	0.000	2.705	0.000	0.000	2.691
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1049.92	N.A.	58.20
0-30	1429.85	N.A.	79.20
0-40	1704.01	N.A.	94.40
0-60	1786.3	N.A.	99.00
0-80	1803.33	N.A.	99.90
0-90	1804.53	N.A.	100.00
10-90	1156.78	N.A.	64.10
20-40	654.09	N.A.	36.20
20-50	712.03	N.A.	39.50
40-70	93.99	N.A.	5.20
60-80	17.03	N.A.	0.90
70-80	5.33	N.A.	0.30
80-90	1.20	N.A.	0.10
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	1804.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	647.74
10-20	402.18
20-30	379.93
30-40	274.16
40-50	57.95
50-60	24.34
60-70	11.70
70-80	5.33
80-90	1.20
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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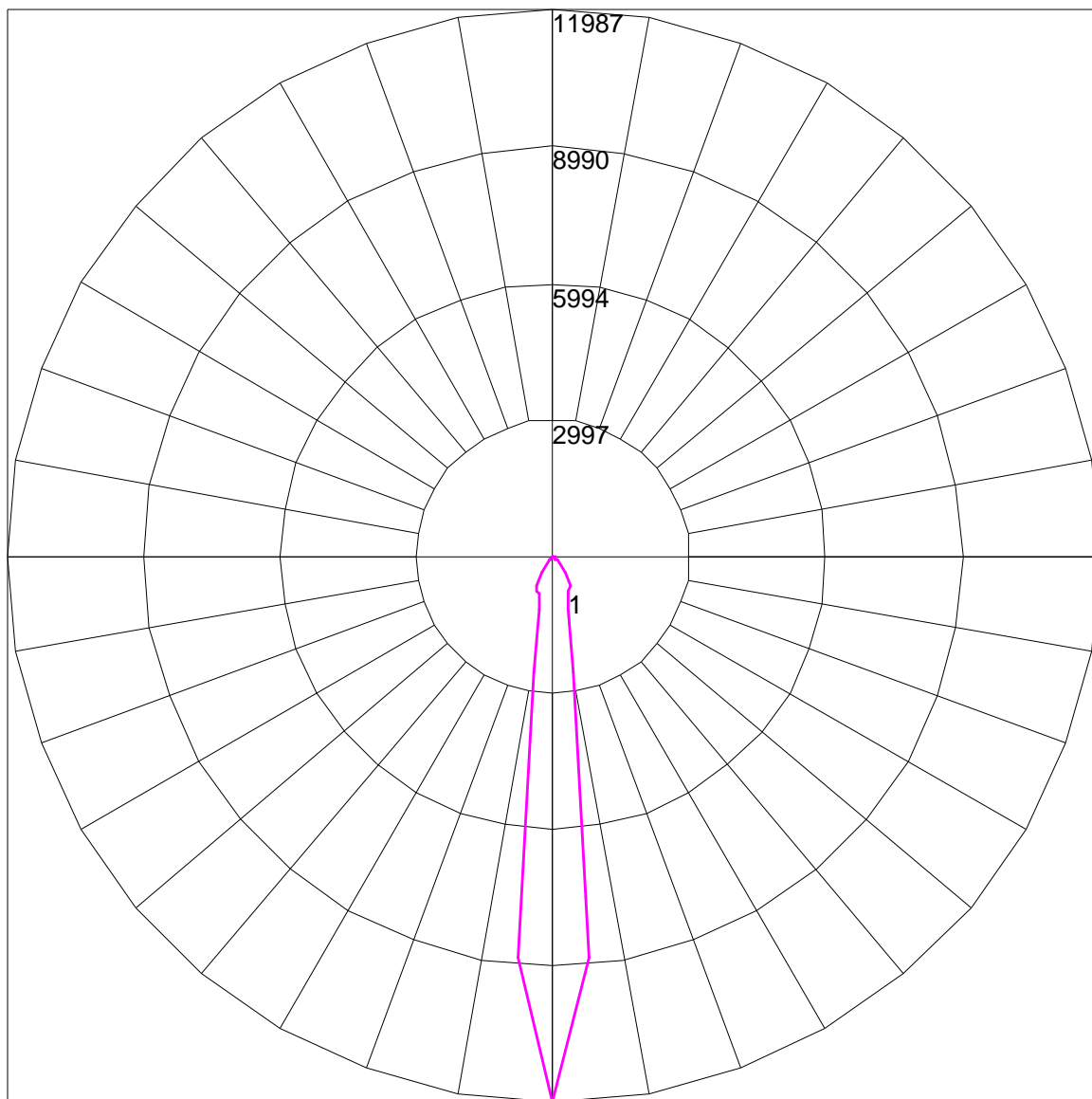
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	81	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	87	79	75	72	78	74	71	78	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65

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POLAR GRAPH



Maximum Candela = 11987.25 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)