

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00544\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00544\_8\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 2/21/2017  
 [UPDATE] 4/19/2017  
 [LUMCAT] SR2MRx-XT13L-E1-xD2F-xxK-WD-MW-SO  
 [LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Wide Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 40.0 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] 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 20L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 804                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 54                 |
| Total Luminaire Watts           | 15                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.66               |
| Spacing Criterion (90-270)      | 0.66               |
| Spacing Criterion (Diagonal)    | 0.70               |
| 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\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 8095             | 9782              | 7960              |
| 55                  | 5648             | 6179              | 5653              |
| 65                  | 3631             | 5249              | 5329              |
| 75                  | 2707             | 3774              | 4215              |
| 85                  | 2222             | 4446              | 2714              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.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>  | 1635.226   | 1635.226    | 1635.226    | 1635.226    | 1635.226    |
| <b>5</b>  | 1602.122   | 1592.681    | 1598.093    | 1599.483    | 1589.030    |
| <b>10</b> | 1443.030   | 1427.635    | 1446.390    | 1438.632    | 1416.262    |
| <b>15</b> | 1146.430   | 1146.179    | 1170.801    | 1151.603    | 1119.980    |
| <b>20</b> | 819.253    | 851.384     | 847.389     | 841.429     | 813.686     |
| <b>25</b> | 459.785    | 536.424     | 597.067     | 506.251     | 452.634     |
| <b>30</b> | 161.364    | 223.033     | 324.927     | 198.433     | 153.994     |
| <b>35</b> | 37.618     | 47.921      | 115.355     | 38.729      | 33.749      |
| <b>40</b> | 30.071     | 29.313      | 35.325      | 27.266      | 28.593      |
| <b>45</b> | 23.087     | 23.223      | 27.899      | 22.459      | 22.703      |
| <b>50</b> | 17.651     | 18.120      | 20.809      | 17.105      | 18.109      |
| <b>55</b> | 13.066     | 13.214      | 14.294      | 14.321      | 13.078      |
| <b>60</b> | 7.863      | 8.181       | 10.889      | 10.524      | 10.761      |
| <b>65</b> | 6.190      | 6.188       | 8.948       | 9.636       | 9.084       |
| <b>70</b> | 3.994      | 4.369       | 7.247       | 6.379       | 6.618       |
| <b>75</b> | 2.826      | 2.473       | 3.940       | 3.341       | 4.400       |
| <b>80</b> | 1.579      | 2.064       | 8.086       | 3.345       | 2.798       |
| <b>85</b> | 0.781      | 0.892       | 1.563       | 1.636       | 0.954       |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 464.47 | N.A.  | 57.70  |
| 0-30    | 702.36 | N.A.  | 87.30  |
| 0-40    | 759.36 | N.A.  | 94.40  |
| 0-60    | 790.47 | N.A.  | 98.30  |
| 0-80    | 802.67 | N.A.  | 99.80  |
| 0-90    | 804.41 | N.A.  | 100.00 |
| 10-90   | 657.31 | N.A.  | 81.70  |
| 20-40   | 294.89 | N.A.  | 36.70  |
| 20-50   | 313.57 | N.A.  | 39.00  |
| 40-70   | 38.97  | N.A.  | 4.80   |
| 60-80   | 12.20  | N.A.  | 1.50   |
| 70-80   | 4.34   | N.A.  | 0.50   |
| 80-90   | 1.74   | N.A.  | 0.20   |
| 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   | 804.41 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 147.10 |
| 10-20   | 317.37 |
| 20-30   | 237.88 |
| 30-40   | 57.00  |
| 40-50   | 18.69  |
| 50-60   | 12.42  |
| 60-70   | 7.86   |
| 70-80   | 4.34   |
| 80-90   | 1.74   |
| 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   |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00544\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.IES

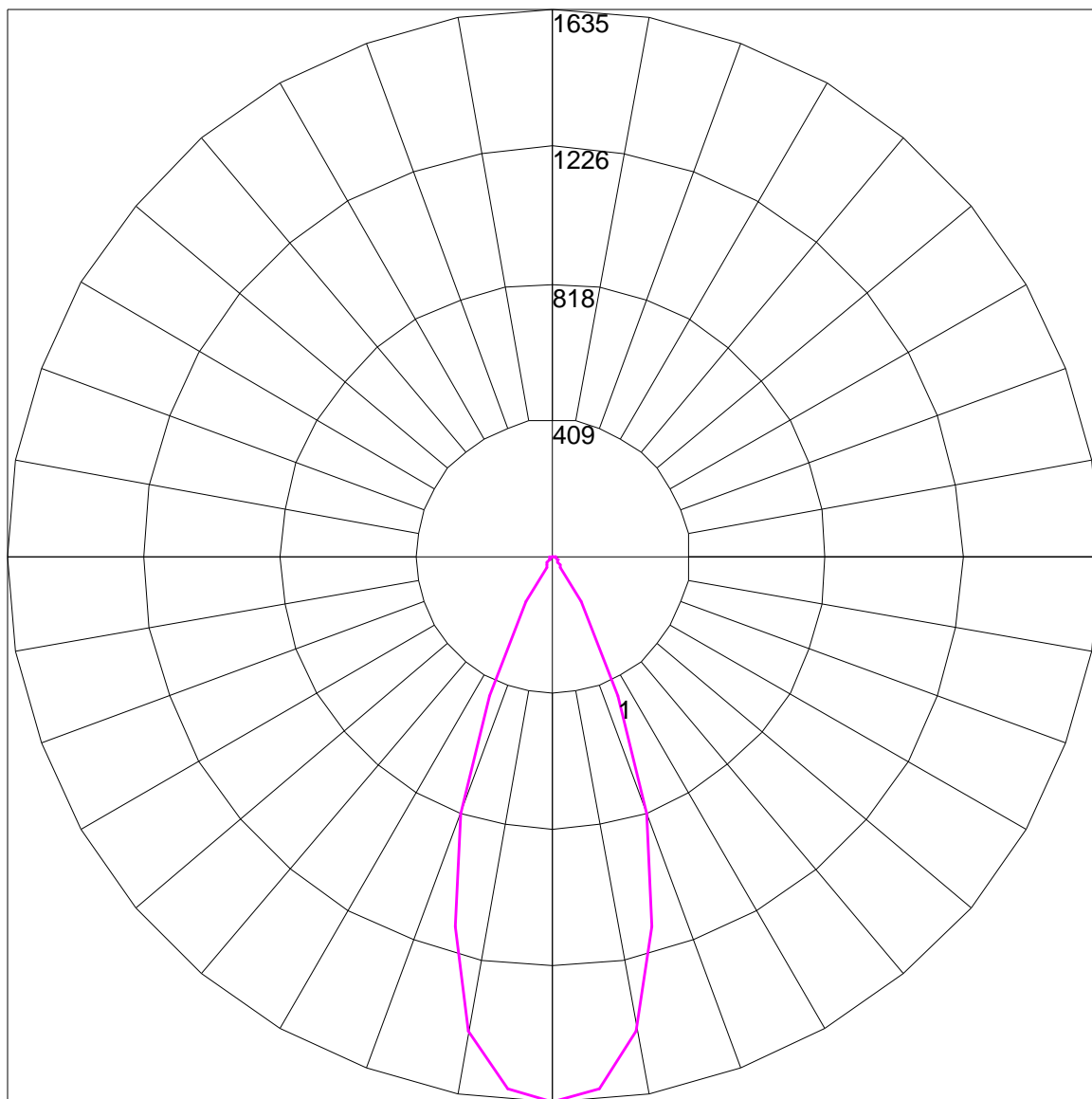
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2  | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |
| 3  | 105 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 85  |
| 4  | 100 | 94  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 82  | 80  |
| 5  | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 76  |
| 6  | 92  | 85  | 79  | 76  | 91  | 84  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 73  |
| 7  | 89  | 81  | 75  | 72  | 87  | 80  | 75  | 72  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 69  |
| 8  | 85  | 77  | 72  | 68  | 84  | 77  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |
| 9  | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 63  |
| 10 | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 61  |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00544\_8 ~ SR2MRX-XT13LE1-XD2FXXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 1635.226 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)