

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00548\_3 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.3\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-ND-MW-NL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Narrow Beam  
 [OTHER] Matte White Trim, No lens  
 [OTHER] 16.1 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: SR4MO-XT-series  
 [OTHER] For New Construction IC Rated Housing: SR4MI-XT-Series  
 [OTHER] For Remodel/Retrofit Housing: SR4MR-XT-Series  
 [OTHER] For RDD4F or RDD4N Downlight Trim  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 40L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1009               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 67                 |
| Total Luminaire Watts           | 15                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.30               |
| Spacing Criterion (90-270)      | 0.30               |
| Spacing Criterion (Diagonal)    | 0.32               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.36 ft (Diameter) |
| Luminous Width (90-270)         | 0.36 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_3 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWNL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 313              | 272               | 323               |
| 55                  | 169              | 191               | 162               |
| 65                  | 238              | 298               | 193               |
| 75                  | 309              | 194               | 236               |
| 85                  | 793              | 655               | 649               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_3 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWNL.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>  | 6143.003   | 6143.003    | 6143.003    | 6143.003    | 6143.003    |
| <b>5</b>  | 4975.267   | 5120.478    | 4982.926    | 5058.750    | 4911.161    |
| <b>10</b> | 2266.959   | 2381.233    | 2246.190    | 2336.503    | 2226.088    |
| <b>15</b> | 926.586    | 963.717     | 919.965     | 956.688     | 927.279     |
| <b>20</b> | 488.711    | 502.909     | 494.591     | 508.015     | 505.778     |
| <b>25</b> | 376.304    | 379.072     | 375.788     | 381.885     | 378.400     |
| <b>30</b> | 336.654    | 337.001     | 335.272     | 337.016     | 336.422     |
| <b>35</b> | 187.208    | 194.688     | 182.231     | 188.667     | 183.049     |
| <b>40</b> | 16.466     | 19.842      | 12.762      | 18.166      | 13.621      |
| <b>45</b> | 2.128      | 1.598       | 1.848       | 1.659       | 2.198       |
| <b>50</b> | 1.698      | 1.177       | 1.433       | 0.946       | 0.948       |
| <b>55</b> | 0.935      | 1.312       | 1.052       | 2.115       | 0.892       |
| <b>60</b> | 1.769      | 1.843       | 1.074       | 1.277       | 1.345       |
| <b>65</b> | 0.966      | 0.622       | 1.210       | 1.058       | 0.785       |
| <b>70</b> | 0.929      | 1.086       | 0.887       | 0.828       | 1.201       |
| <b>75</b> | 0.770      | 0.761       | 0.483       | 0.891       | 0.588       |
| <b>80</b> | 0.643      | 0.862       | 0.786       | 0.646       | 0.528       |
| <b>85</b> | 0.665      | 0.645       | 0.549       | 0.584       | 0.544       |
| <b>90</b> | 0.641      | 0.147       | 0.481       | 0.565       | 0.302       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_3 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWNL.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 707.05  | N.A.  | 70.10  |
| 0-30    | 889.74  | N.A.  | 88.20  |
| 0-40    | 1000.98 | N.A.  | 99.20  |
| 0-60    | 1006.18 | N.A.  | 99.80  |
| 0-80    | 1008.06 | N.A.  | 99.90  |
| 0-90    | 1008.69 | N.A.  | 100.00 |
| 10-90   | 612.99  | N.A.  | 60.80  |
| 20-40   | 293.94  | N.A.  | 29.10  |
| 20-50   | 297.93  | N.A.  | 29.50  |
| 40-70   | 6.26    | N.A.  | 0.60   |
| 60-80   | 1.88    | N.A.  | 0.20   |
| 70-80   | 0.82    | N.A.  | 0.10   |
| 80-90   | 0.63    | 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   | 1008.69 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 395.71 |
| 10-20   | 311.34 |
| 20-30   | 182.69 |
| 30-40   | 111.24 |
| 40-50   | 4.00   |
| 50-60   | 1.20   |
| 60-70   | 1.06   |
| 70-80   | 0.82   |
| 80-90   | 0.63   |
| 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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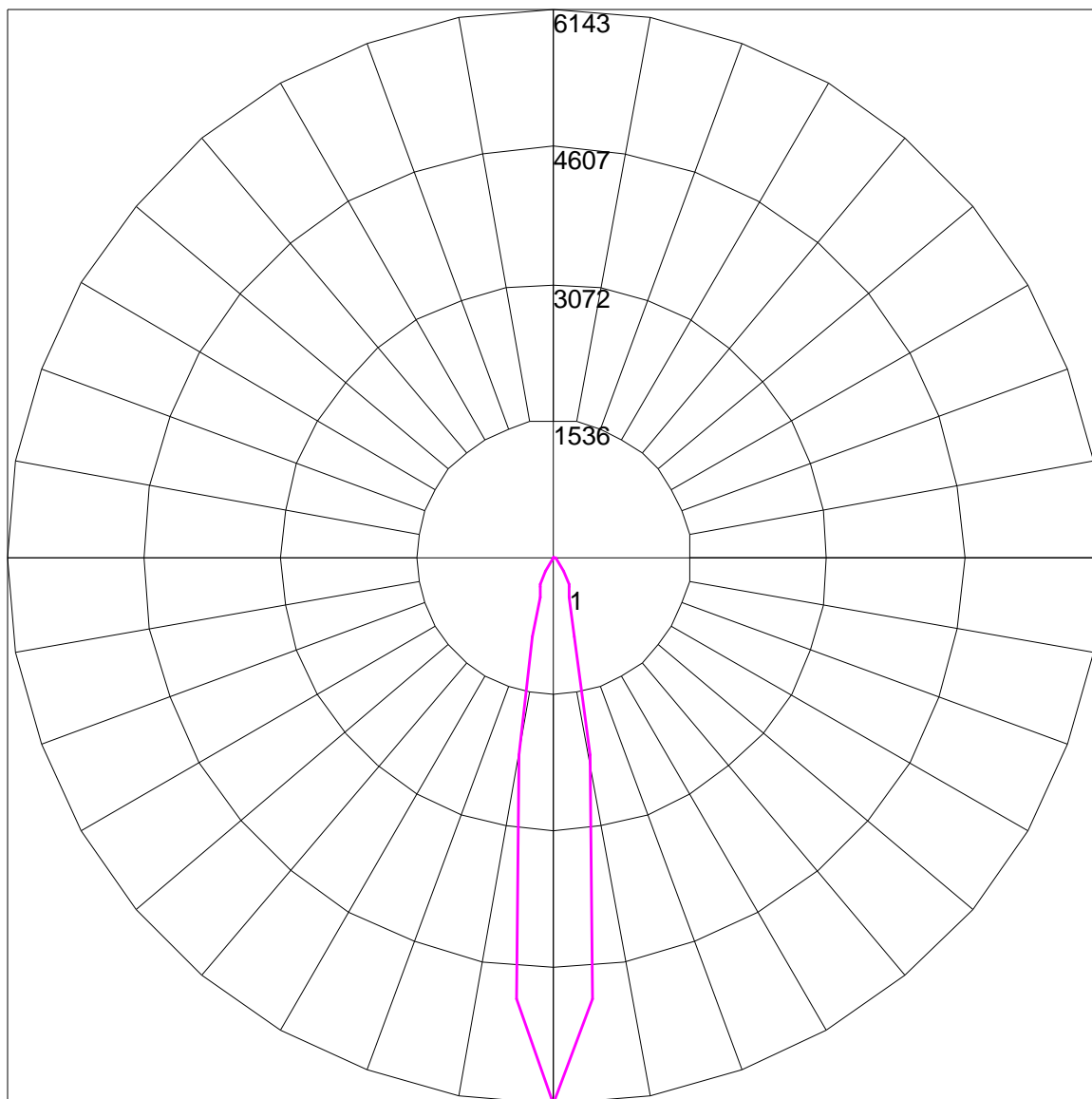
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 115 | 113 | 111 | 109 | 112 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |
| 2  | 111 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 102 | 100 | 98  | 99  | 98  | 96  | 97  | 95  | 94  | 93  |
| 3  | 107 | 102 | 99  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 93  | 96  | 94  | 92  | 94  | 92  | 91  | 89  |
| 4  | 104 | 98  | 94  | 91  | 102 | 97  | 93  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 86  |
| 5  | 100 | 94  | 90  | 87  | 99  | 93  | 89  | 86  | 92  | 88  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 83  |
| 6  | 97  | 91  | 86  | 83  | 96  | 90  | 86  | 83  | 89  | 85  | 83  | 87  | 84  | 82  | 86  | 84  | 81  | 80  |
| 7  | 94  | 88  | 83  | 80  | 93  | 87  | 83  | 80  | 86  | 82  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 78  |
| 8  | 92  | 85  | 80  | 78  | 91  | 84  | 80  | 77  | 83  | 80  | 77  | 82  | 79  | 77  | 82  | 79  | 77  | 76  |
| 9  | 89  | 82  | 78  | 75  | 88  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 79  | 77  | 74  | 73  |
| 10 | 87  | 80  | 76  | 73  | 86  | 79  | 75  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 77  | 74  | 72  | 71  |

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POLAR GRAPH



Maximum Candela = 6143.003 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)