

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT10LE1-RDD4X-XXK-NDMWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.4\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT10L-E1-RDD4x-xxK-ND-MW-GL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Narrow Beam  
 [OTHER] Matte White Trim, Clear glass 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                | 691                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 62                 |
| Total Luminaire Watts           | 11.1               |
| 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\_4 ~ SR4MX-XT10LE1-RDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 899              | 816               | 792               |
| 55                  | 693              | 646               | 772               |
| 65                  | 360              | 483               | 402               |
| 75                  | 350              | 383               | 256               |
| 85                  | 433              | 609               | 665               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT10LE1-RDD4X-XXK-NDMWGL.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>  | 4163.694   | 4163.694    | 4163.694    | 4163.694    | 4163.694    |
| <b>5</b>  | 3330.925   | 3455.273    | 3349.121    | 3398.650    | 3291.473    |
| <b>10</b> | 1517.234   | 1616.818    | 1517.710    | 1569.616    | 1492.861    |
| <b>15</b> | 636.886    | 670.418     | 633.510     | 658.031     | 633.847     |
| <b>20</b> | 342.946    | 354.710     | 344.992     | 352.822     | 349.118     |
| <b>25</b> | 260.913    | 262.976     | 258.690     | 263.282     | 260.856     |
| <b>30</b> | 230.194    | 231.091     | 227.792     | 230.820     | 228.628     |
| <b>35</b> | 115.744    | 125.017     | 112.483     | 116.758     | 110.648     |
| <b>40</b> | 9.851      | 16.468      | 10.736      | 14.423      | 9.504       |
| <b>45</b> | 6.120      | 5.363       | 5.556       | 6.096       | 5.390       |
| <b>50</b> | 4.533      | 4.580       | 3.695       | 4.676       | 3.650       |
| <b>55</b> | 3.827      | 3.559       | 3.564       | 3.814       | 4.263       |
| <b>60</b> | 1.995      | 3.058       | 2.592       | 3.158       | 3.090       |
| <b>65</b> | 1.465      | 1.047       | 1.963       | 2.123       | 1.635       |
| <b>70</b> | 1.151      | 0.921       | 2.296       | 1.280       | 0.836       |
| <b>75</b> | 0.873      | 0.982       | 0.954       | 0.985       | 0.637       |
| <b>80</b> | 0.499      | 0.527       | 0.725       | 0.881       | 0.420       |
| <b>85</b> | 0.363      | 0.539       | 0.511       | 0.384       | 0.558       |
| <b>90</b> | 0.277      | 0.268       | 0.225       | 0.406       | 0.268       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT10LE1-RDD4X-XXK-NDMWGL.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 479.49 | N.A.  | 69.40  |
| 0-30    | 605.75 | N.A.  | 87.70  |
| 0-40    | 678.43 | N.A.  | 98.20  |
| 0-60    | 687.13 | N.A.  | 99.50  |
| 0-80    | 690.02 | N.A.  | 99.90  |
| 0-90    | 690.53 | N.A.  | 100.00 |
| 10-90   | 423.97 | N.A.  | 61.40  |
| 20-40   | 198.94 | N.A.  | 28.80  |
| 20-50   | 204.38 | N.A.  | 29.60  |
| 40-70   | 10.57  | N.A.  | 1.50   |
| 60-80   | 2.88   | N.A.  | 0.40   |
| 70-80   | 1.02   | N.A.  | 0.10   |
| 80-90   | 0.51   | 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   | 690.53 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 266.56 |
| 10-20   | 212.93 |
| 20-30   | 126.26 |
| 30-40   | 72.68  |
| 40-50   | 5.44   |
| 50-60   | 3.26   |
| 60-70   | 1.87   |
| 70-80   | 1.02   |
| 80-90   | 0.51   |
| 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

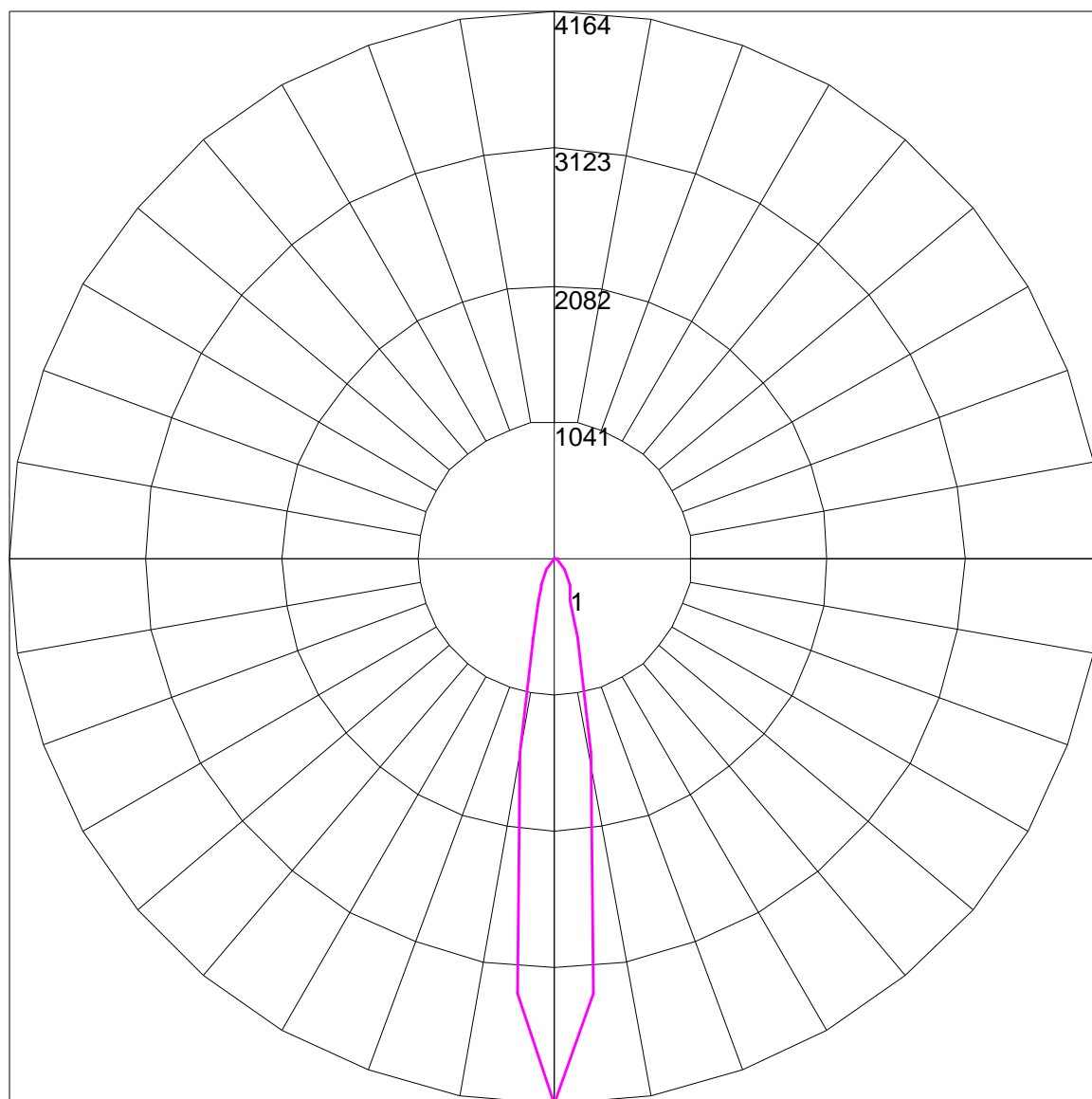
Effective Floor Cavity Reflectance 0.20

| 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 | 112 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |
| 2  | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 97  | 95  | 94  | 92  |
| 3  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |
| 4  | 103 | 98  | 93  | 90  | 102 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 86  |
| 5  | 100 | 94  | 89  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 83  |
| 6  | 97  | 90  | 86  | 83  | 96  | 90  | 85  | 82  | 88  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 80  |
| 7  | 94  | 87  | 83  | 80  | 93  | 87  | 82  | 79  | 85  | 82  | 79  | 84  | 81  | 79  | 83  | 80  | 78  | 77  |
| 8  | 91  | 84  | 80  | 77  | 90  | 84  | 80  | 77  | 83  | 79  | 76  | 82  | 79  | 76  | 81  | 78  | 76  | 75  |
| 9  | 89  | 82  | 77  | 74  | 88  | 81  | 77  | 74  | 80  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 74  | 73  |
| 10 | 86  | 79  | 75  | 72  | 85  | 79  | 75  | 72  | 78  | 74  | 72  | 78  | 74  | 72  | 77  | 74  | 72  | 71  |

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## POLAR GRAPH



Maximum Candela = 4163.694 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)