

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT20LE1-SDD4X-XXK-XWMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00547.14\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/21/2017  
 [UPDATE] 4/21/2017  
 [LUMCAT] SS4MRx-XT20L-E1-SDD4x-xxK-XW-MW-SO  
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Xtra Wide Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 53.3 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: SS4MO-XT-series  
 [OTHER] For New Constuction IC Rated Housing: SS4MI-XT-Series  
 [OTHER] For Remodel/Retrofit Housing: SS4MR-XT-Series  
 [OTHER] For SDD4F or SDD4N 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                | 1419            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 60              |
| Total Luminaire Watts           | 23.7            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 0.86            |
| Spacing Criterion (90-270)      | 0.84            |
| Spacing Criterion (Diagonal)    | 0.86            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.20 ft         |
| Luminous Width (90-270)         | 0.20 ft         |
| Luminous Height                 | 0.00 ft         |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT20LE1-SDD4X-XXK-XWMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 35899            | 46069             | 34627             |
| 55                  | 13486            | 17386             | 13139             |
| 65                  | 7330             | 7872              | 7525              |
| 75                  | 1650             | 2041              | 1716              |
| 85                  | 2571             | 2112              | 1706              |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT20LE1-SDD4X-XXK-XWMWSO.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>  | 1693.118   | 1693.118    | 1693.118    | 1693.118    | 1693.118    |
| <b>5</b>  | 1680.631   | 1682.409    | 1676.022    | 1676.736    | 1668.350    |
| <b>10</b> | 1608.725   | 1615.224    | 1607.266    | 1603.661    | 1590.291    |
| <b>15</b> | 1470.774   | 1490.007    | 1485.115    | 1479.436    | 1454.525    |
| <b>20</b> | 1257.350   | 1295.359    | 1307.121    | 1284.866    | 1243.382    |
| <b>25</b> | 956.165    | 1021.678    | 1059.836    | 1012.602    | 946.805     |
| <b>30</b> | 621.488    | 695.767     | 751.173     | 679.670     | 606.859     |
| <b>35</b> | 344.608    | 406.844     | 451.024     | 381.365     | 328.061     |
| <b>40</b> | 176.851    | 211.398     | 237.010     | 195.375     | 168.975     |
| <b>45</b> | 92.541     | 106.184     | 118.757     | 102.805     | 89.262      |
| <b>50</b> | 48.253     | 55.047      | 62.916      | 54.933      | 46.953      |
| <b>55</b> | 28.200     | 31.569      | 36.355      | 31.486      | 27.473      |
| <b>60</b> | 17.251     | 19.628      | 21.657      | 19.720      | 17.885      |
| <b>65</b> | 11.293     | 11.715      | 12.129      | 12.084      | 11.593      |
| <b>70</b> | 5.337      | 6.362       | 5.873       | 6.225       | 5.889       |
| <b>75</b> | 1.557      | 2.019       | 1.926       | 2.083       | 1.619       |
| <b>80</b> | 1.037      | 0.769       | 1.033       | 1.050       | 1.021       |
| <b>85</b> | 0.817      | 0.804       | 0.671       | 1.117       | 0.542       |
| <b>90</b> | 0.575      | 0.776       | 0.733       | 0.586       | 1.000       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_14 ~ SS4MX-XT20LE1-SDD4X-XXK-XWMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 568.58  | N.A.  | 40.10  |
| 0-30    | 1024.08 | N.A.  | 72.20  |
| 0-40    | 1282.76 | N.A.  | 90.40  |
| 0-60    | 1403.03 | N.A.  | 98.90  |
| 0-80    | 1418.04 | N.A.  | 99.90  |
| 0-90    | 1418.95 | N.A.  | 100.00 |
| 10-90   | 1261.19 | N.A.  | 88.90  |
| 20-40   | 714.18  | N.A.  | 50.30  |
| 20-50   | 803.65  | N.A.  | 56.60  |
| 40-70   | 132.44  | N.A.  | 9.30   |
| 60-80   | 15.02   | N.A.  | 1.10   |
| 70-80   | 2.84    | N.A.  | 0.20   |
| 80-90   | 0.91    | 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   | 1418.95 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 157.77 |
| 10-20   | 410.81 |
| 20-30   | 455.50 |
| 30-40   | 258.69 |
| 40-50   | 89.47  |
| 50-60   | 30.80  |
| 60-70   | 12.18  |
| 70-80   | 2.84   |
| 80-90   | 0.91   |
| 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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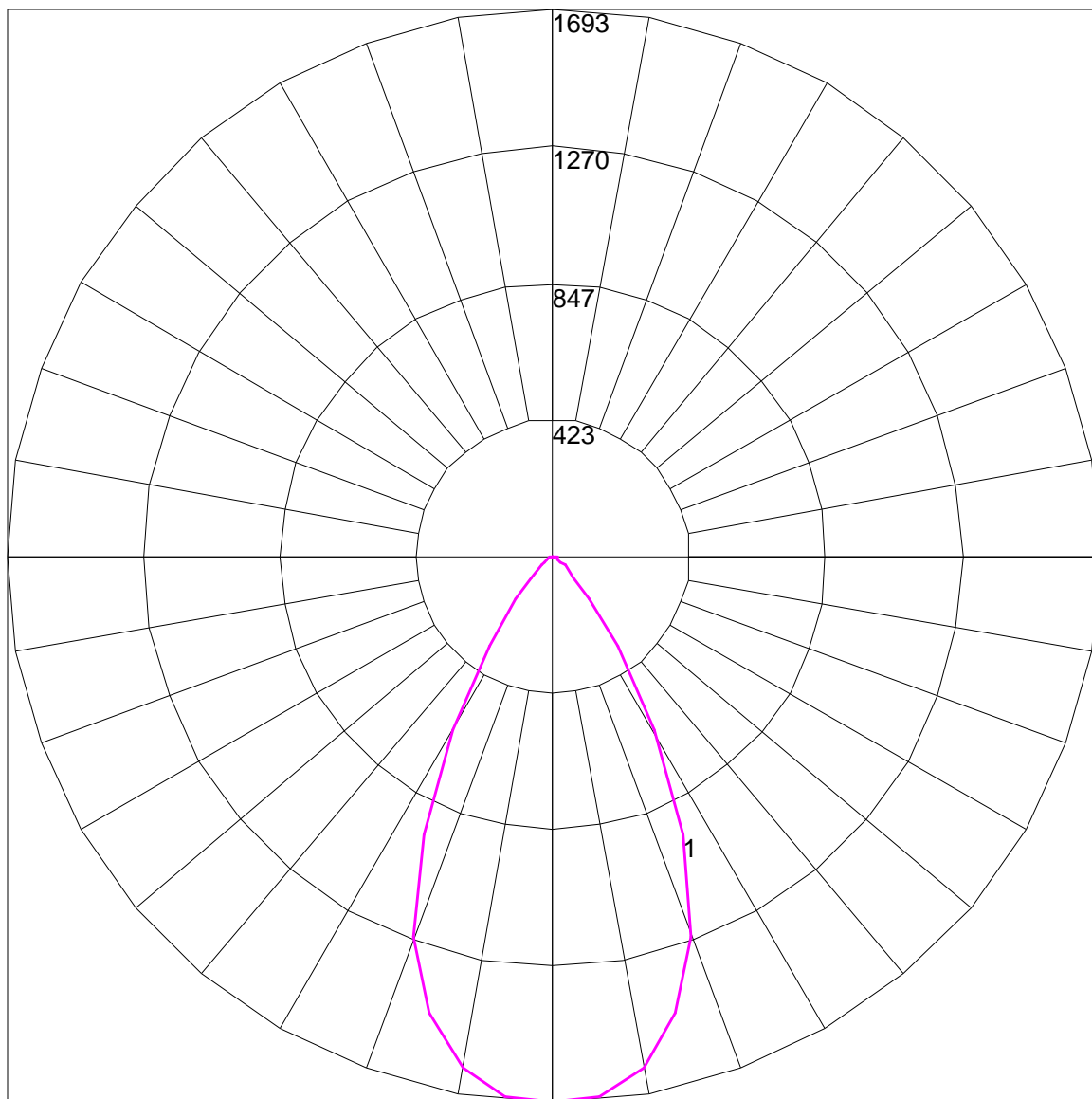
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 87  |
| 3  | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82  | 81  |
| 4  | 97  | 90  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 75  |
| 5  | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |
| 6  | 88  | 79  | 73  | 69  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |
| 7  | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 61  |
| 8  | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 63  | 59  | 66  | 62  | 59  | 58  |
| 9  | 76  | 66  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 54  |
| 10 | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 61  | 56  | 53  | 61  | 56  | 53  | 60  | 56  | 52  | 51  |

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POLAR GRAPH



Maximum Candela = 1693.118 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)