

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00545\_28 ~ SS3DMX-XT10LE1-SDD3X-XXK-NDMWSO.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00545\_28\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 2/17/2017  
 [UPDATE] 5/1/2017  
 [LUMCAT] SS3DMx-XT10L-E1-SDD3x-xxK-ND-MW-SO  
 [LUMINAIRE] Nom. 3" Square Downlight, Deep profile, Narrow Beam  
 [OTHER] Matte White Trim, Solite Lens  
 [OTHER] 27.8 Degree Beam Angle  
 [LAMP] N/A, 19mm  
 [LAMPCAT] N/A, Min. 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] For New Construction Non-IC Housing: SS3DMO-XT-series  
 [OTHER] For New Construction IC Rated Housing: SS3DMI-XT-Series  
 [OTHER] For Remodel/Retrofit Housing: SS3DMR-XT-Series  
 [OTHER] For SDD3F or SDD3N 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                | 665             |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 60              |
| Total Luminaire Watts           | 11.1            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 0.52            |
| Spacing Criterion (90-270)      | 0.52            |
| Spacing Criterion (Diagonal)    | 0.58            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.31 ft         |
| Luminous Width (90-270)         | 0.31 ft         |
| Luminous Height                 | 0.00 ft         |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_28 ~ SS3DMX-XT10LE1-SDD3X-XXK-NDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4622             | 7248              | 4622              |
| 55                  | 4029             | 5958              | 4029              |
| 65                  | 2606             | 3095              | 2606              |
| 75                  | 460              | 1101              | 460               |
| 85                  | 823              | 1023              | 823               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_28 ~ SS3DMX-XT10LE1-SDD3X-XXK-NDMWSO.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>  | 1488.946   | 1488.946    | 1488.946    | 1488.946    | 1488.946    |
| <b>5</b>  | 1392.111   | 1418.705    | 1437.855    | 1418.705    | 1392.111    |
| <b>10</b> | 1107.752   | 1171.994    | 1200.790    | 1171.994    | 1107.752    |
| <b>15</b> | 756.166    | 815.047     | 822.667     | 815.047     | 756.166     |
| <b>20</b> | 501.607    | 541.235     | 540.389     | 541.235     | 501.607     |
| <b>25</b> | 314.217    | 366.598     | 383.645     | 366.598     | 314.217     |
| <b>30</b> | 163.521    | 223.222     | 266.798     | 223.222     | 163.521     |
| <b>35</b> | 74.266     | 112.607     | 158.514     | 112.607     | 74.266      |
| <b>40</b> | 38.707     | 54.818      | 81.193      | 54.818      | 38.707      |
| <b>45</b> | 29.676     | 35.754      | 46.542      | 35.754      | 29.676      |
| <b>50</b> | 24.328     | 29.091      | 37.905      | 29.091      | 24.328      |
| <b>55</b> | 20.985     | 24.082      | 31.034      | 24.082      | 20.985      |
| <b>60</b> | 14.640     | 17.645      | 21.452      | 17.645      | 14.640      |
| <b>65</b> | 10.000     | 12.361      | 11.878      | 12.361      | 10.000      |
| <b>70</b> | 4.300      | 6.793       | 5.835       | 6.793       | 4.300       |
| <b>75</b> | 1.081      | 1.397       | 2.588       | 1.397       | 1.081       |
| <b>80</b> | 0.822      | 0.727       | 1.120       | 0.727       | 0.822       |
| <b>85</b> | 0.651      | 0.668       | 0.810       | 0.668       | 0.651       |
| <b>90</b> | 0.000      | 0.055       | 0.161       | 0.055       | 0.000       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_28 ~ SS3DMX-XT10LE1-SDD3X-XXK-NDMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 353.50 | N.A.  | 53.10  |
| 0-30    | 519.74 | N.A.  | 78.10  |
| 0-40    | 597.56 | N.A.  | 89.80  |
| 0-60    | 650.47 | N.A.  | 97.80  |
| 0-80    | 664.73 | N.A.  | 99.90  |
| 0-90    | 665.36 | N.A.  | 100.00 |
| 10-90   | 538.33 | N.A.  | 80.90  |
| 20-40   | 244.06 | N.A.  | 36.70  |
| 20-50   | 275.07 | N.A.  | 41.30  |
| 40-70   | 64.54  | N.A.  | 9.70   |
| 60-80   | 14.25  | N.A.  | 2.10   |
| 70-80   | 2.63   | N.A.  | 0.40   |
| 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   | 665.36 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 127.03 |
| 10-20   | 226.47 |
| 20-30   | 166.24 |
| 30-40   | 77.82  |
| 40-50   | 31.01  |
| 50-60   | 21.91  |
| 60-70   | 11.62  |
| 70-80   | 2.63   |
| 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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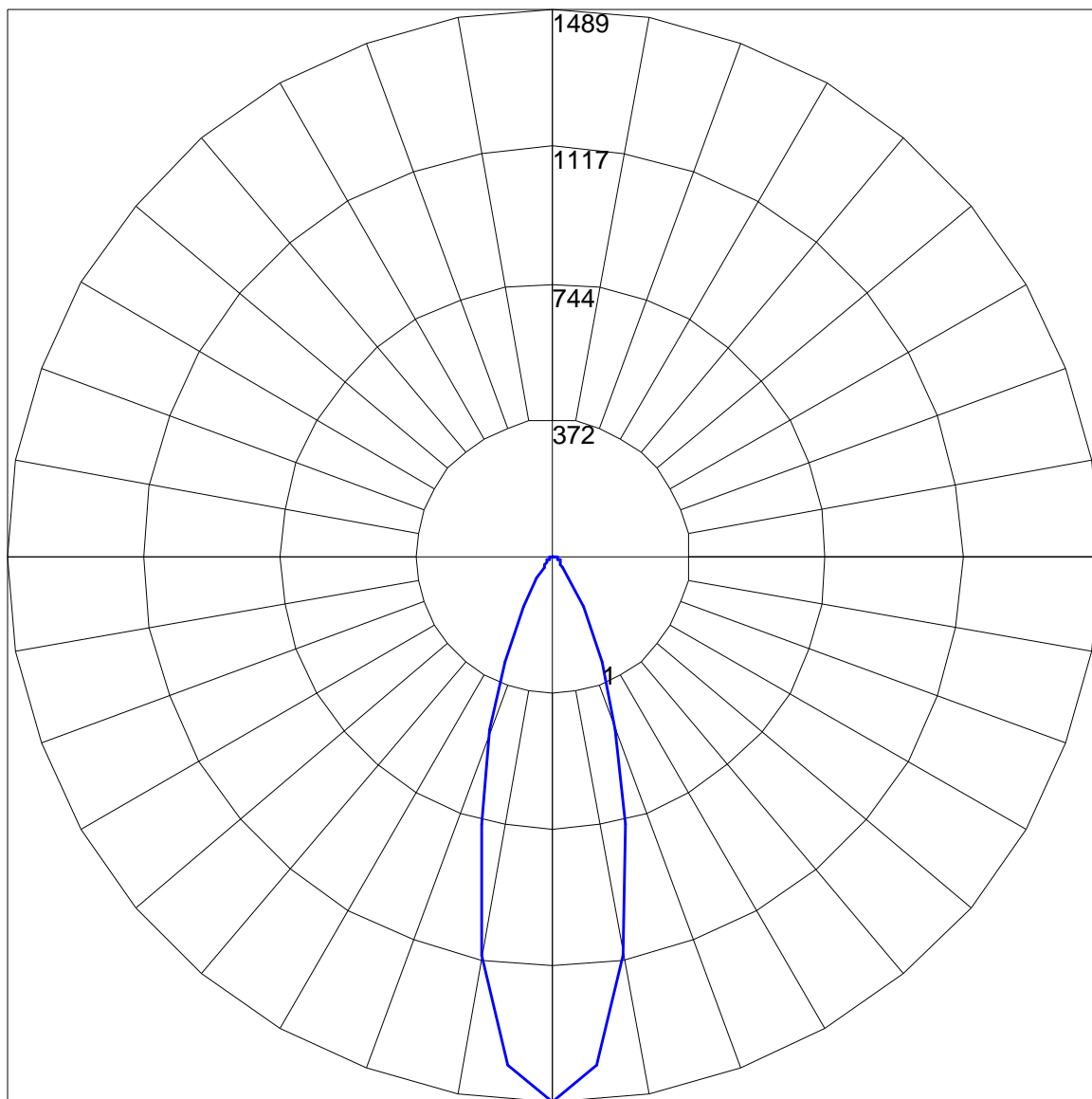
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2  | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 93  | 91  | 90  | 88  |
| 3  | 103 | 97  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 90  | 87  | 91  | 88  | 85  | 89  | 86  | 84  | 83  |
| 4  | 99  | 92  | 86  | 82  | 97  | 91  | 86  | 82  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 78  |
| 5  | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 78  | 75  | 81  | 77  | 75  | 73  |
| 6  | 90  | 82  | 77  | 73  | 89  | 81  | 76  | 72  | 80  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 70  |
| 7  | 87  | 78  | 72  | 69  | 85  | 77  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |
| 8  | 83  | 74  | 69  | 65  | 82  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 71  | 67  | 64  | 63  |
| 9  | 80  | 71  | 66  | 62  | 79  | 71  | 65  | 62  | 70  | 65  | 62  | 69  | 65  | 61  | 68  | 64  | 61  | 60  |
| 10 | 77  | 68  | 63  | 59  | 76  | 68  | 62  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 65  | 61  | 59  | 57  |

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POLAR GRAPH



Maximum Candela = 1488.946 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)