

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP_00547_14 ~ SS4MX-XT13LE1-SDD4X-XXK-XWMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00547.14_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/21/2017
 [UPDATE] 4/21/2017
 [LUMCAT] SS4MRx-XT13L-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 Construction 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 | 922 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 61 |
| Total Luminaire Watts | 15 |
| 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-XT13LE1-SDD4X-XXK-XWMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 23336 | 29947 | 22509 |
| 55 | 8767 | 11302 | 8541 |
| 65 | 4765 | 5118 | 4891 |
| 75 | 1073 | 1327 | 1115 |
| 85 | 1671 | 1372 | 1111 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00547_14 ~ SS4MX-XT13LE1-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> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1100.608 | 1100.608 | 1100.608 | 1100.608 | 1100.608 |
| 5 | 1092.491 | 1093.647 | 1089.495 | 1089.959 | 1084.508 |
| 10 | 1045.749 | 1049.973 | 1044.800 | 1042.457 | 1033.766 |
| 15 | 956.074 | 968.576 | 965.396 | 961.705 | 945.511 |
| 20 | 817.338 | 842.046 | 849.692 | 835.225 | 808.258 |
| 25 | 621.553 | 664.140 | 688.944 | 658.240 | 615.469 |
| 30 | 403.997 | 452.282 | 488.299 | 441.818 | 394.487 |
| 35 | 224.012 | 264.468 | 293.187 | 247.906 | 213.256 |
| 40 | 114.962 | 137.419 | 154.068 | 127.003 | 109.842 |
| 45 | 60.156 | 69.025 | 77.198 | 66.828 | 58.025 |
| 50 | 31.367 | 35.783 | 40.899 | 35.709 | 30.522 |
| 55 | 18.331 | 20.521 | 23.632 | 20.467 | 17.859 |
| 60 | 11.214 | 12.759 | 14.078 | 12.819 | 11.626 |
| 65 | 7.341 | 7.615 | 7.885 | 7.855 | 7.536 |
| 70 | 3.470 | 4.135 | 3.818 | 4.046 | 3.828 |
| 75 | 1.012 | 1.312 | 1.252 | 1.354 | 1.052 |
| 80 | 0.674 | 0.500 | 0.671 | 0.683 | 0.664 |
| 85 | 0.531 | 0.523 | 0.436 | 0.726 | 0.353 |
| 90 | 0.374 | 0.504 | 0.476 | 0.381 | 0.650 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00547_14 ~ SS4MX-XT13LE1-SDD4X-XXK-XWMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 369.60 | N.A. | 40.10 |
| 0-30 | 665.70 | N.A. | 72.20 |
| 0-40 | 833.86 | N.A. | 90.40 |
| 0-60 | 912.04 | N.A. | 98.90 |
| 0-80 | 921.80 | N.A. | 99.90 |
| 0-90 | 922.39 | N.A. | 100.00 |
| 10-90 | 819.83 | N.A. | 88.90 |
| 20-40 | 464.25 | N.A. | 50.30 |
| 20-50 | 522.41 | N.A. | 56.60 |
| 40-70 | 86.09 | N.A. | 9.30 |
| 60-80 | 9.76 | N.A. | 1.10 |
| 70-80 | 1.85 | N.A. | 0.20 |
| 80-90 | 0.59 | 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 | 922.39 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 102.56 |
| 10-20 | 267.05 |
| 20-30 | 296.09 |
| 30-40 | 168.16 |
| 40-50 | 58.16 |
| 50-60 | 20.02 |
| 60-70 | 7.92 |
| 70-80 | 1.85 |
| 80-90 | 0.59 |
| 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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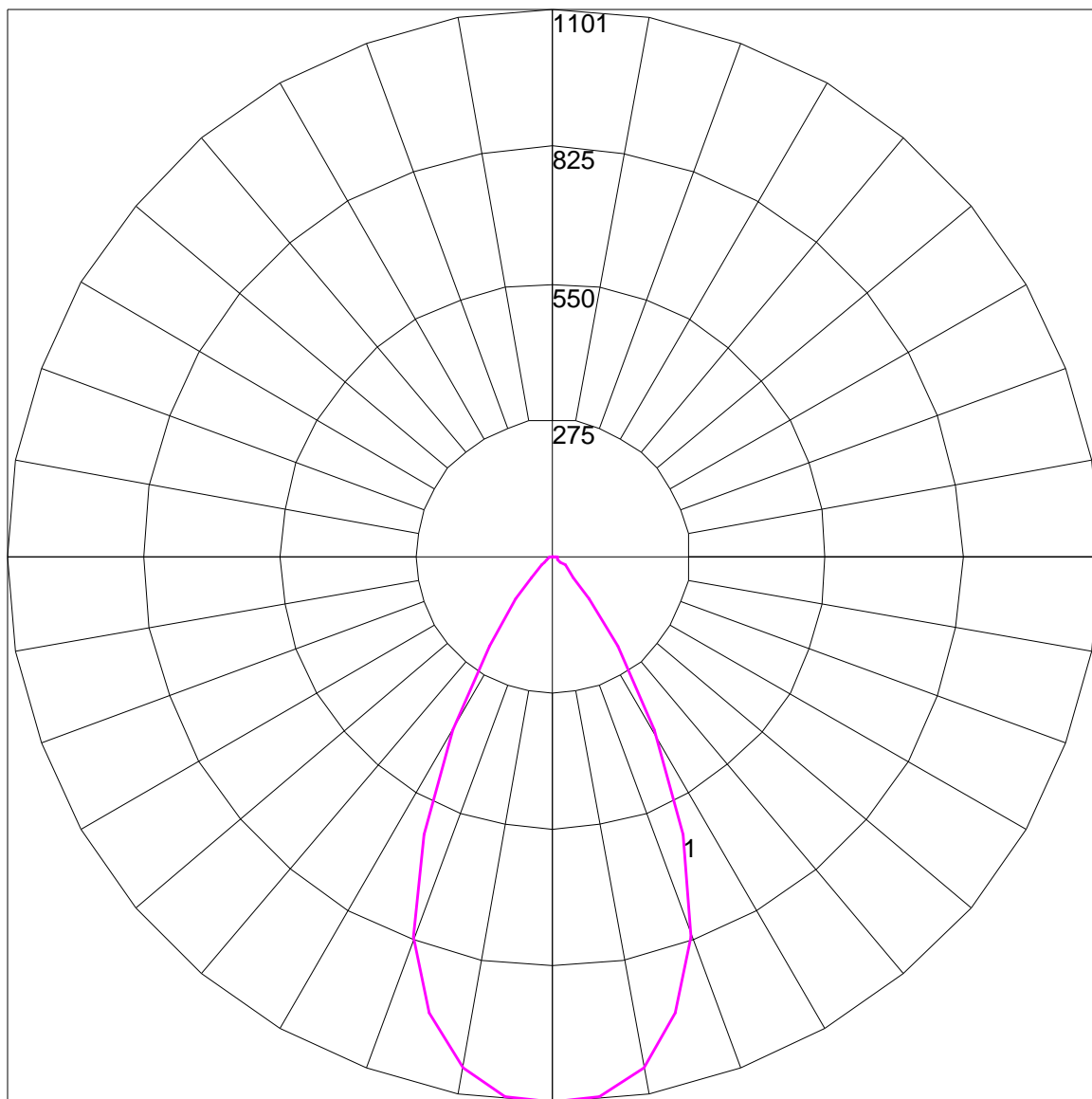
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 98 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 84 | 87 | 85 | 82 | 81 |
| 4 | 97 | 90 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 77 | 82 | 79 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 73 | 81 | 76 | 73 | 80 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 72 | 68 | 76 | 72 | 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 = 1100.608 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)