

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP_00548_12 ~ SR4MX-XT13LE1-RDD4X-XXK-XWMWNL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00548.12_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/13/2017
 [UPDATE] 4/18/2017
 [LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-XW-MW-NL
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Xtra Wide Beam
 [OTHER] Matte White Trim, No lens
 [OTHER] 61.7 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 | 1013 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 68 |
| Total Luminaire Watts | 15 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.98 |
| Spacing Criterion (90-270) | 0.98 |
| Spacing Criterion (Diagonal) | 0.92 |
| 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_12 ~ SR4MX-XT13LE1-RDD4X-XXK-XWMWNL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2429 | 2509 | 2744 |
| 55 | 393 | 290 | 349 |
| 65 | 303 | 320 | 373 |
| 75 | 399 | 366 | 451 |
| 85 | 773 | 807 | 621 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00548_12 ~ SR4MX-XT13LE1-RDD4X-XXK-XWMWNL.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1149.232 | 1149.232 | 1149.232 | 1149.232 | 1149.232 |
| 5 | 1131.378 | 1134.859 | 1134.905 | 1137.736 | 1138.687 |
| 10 | 1083.339 | 1088.960 | 1087.089 | 1087.929 | 1083.088 |
| 15 | 1021.188 | 1027.184 | 1024.235 | 1022.765 | 1015.482 |
| 20 | 928.936 | 936.210 | 931.054 | 931.437 | 921.302 |
| 25 | 811.485 | 817.597 | 812.484 | 816.321 | 807.614 |
| 30 | 641.579 | 655.838 | 640.886 | 656.830 | 644.170 |
| 35 | 352.181 | 366.257 | 353.315 | 378.555 | 366.890 |
| 40 | 74.134 | 80.127 | 78.139 | 84.527 | 81.706 |
| 45 | 16.528 | 18.301 | 17.077 | 20.030 | 18.676 |
| 50 | 4.740 | 4.871 | 4.413 | 5.483 | 5.557 |
| 55 | 2.170 | 1.889 | 1.603 | 2.182 | 1.927 |
| 60 | 1.659 | 1.790 | 1.453 | 1.655 | 1.763 |
| 65 | 1.231 | 1.208 | 1.302 | 1.569 | 1.518 |
| 70 | 0.996 | 1.301 | 1.009 | 1.095 | 1.183 |
| 75 | 0.993 | 0.961 | 0.912 | 0.986 | 1.124 |
| 80 | 0.730 | 0.711 | 0.764 | 0.822 | 0.833 |
| 85 | 0.648 | 0.780 | 0.677 | 0.521 | 0.521 |
| 90 | 0.355 | 0.345 | 0.262 | 0.231 | 0.464 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00548_12 ~ SR4MX-XT13LE1-RDD4X-XXK-XWMWNL.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 393.02 | N.A. | 38.80 |
| 0-30 | 761.19 | N.A. | 75.20 |
| 0-40 | 984.62 | N.A. | 97.20 |
| 0-60 | 1009.87 | N.A. | 99.70 |
| 0-80 | 1012.25 | N.A. | 99.90 |
| 0-90 | 1012.89 | N.A. | 100.00 |
| 10-90 | 906.07 | N.A. | 89.50 |
| 20-40 | 591.59 | N.A. | 58.40 |
| 20-50 | 614.51 | N.A. | 60.70 |
| 40-70 | 26.61 | N.A. | 2.60 |
| 60-80 | 2.38 | N.A. | 0.20 |
| 70-80 | 1.02 | N.A. | 0.10 |
| 80-90 | 0.64 | 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 | 1012.89 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 106.82 |
| 10-20 | 286.20 |
| 20-30 | 368.17 |
| 30-40 | 223.43 |
| 40-50 | 22.92 |
| 50-60 | 2.33 |
| 60-70 | 1.36 |
| 70-80 | 1.02 |
| 80-90 | 0.64 |
| 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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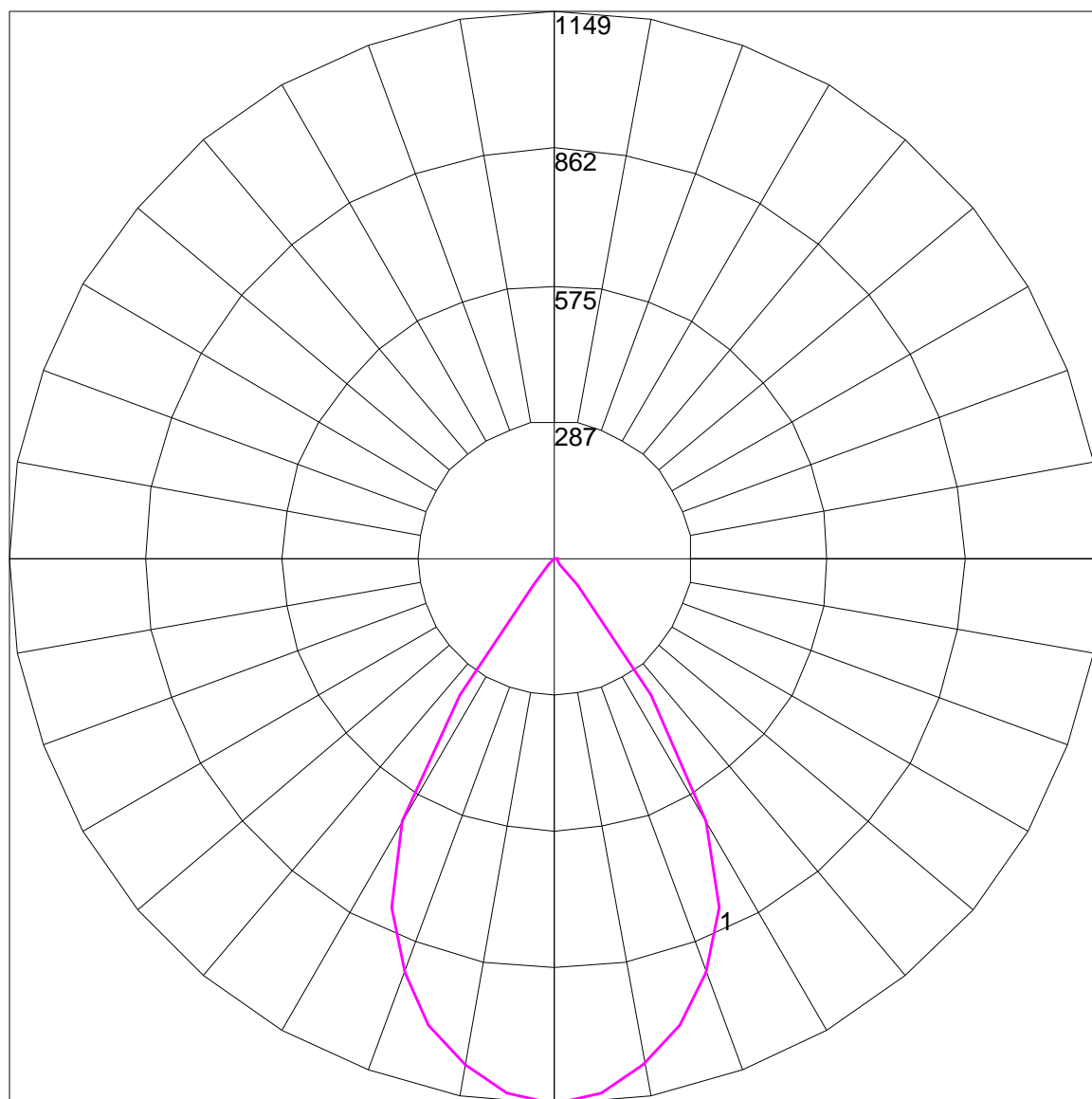
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 85 | 88 | 86 | 83 | 82 |
| 4 | 98 | 91 | 85 | 81 | 96 | 90 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 78 | 77 |
| 5 | 93 | 85 | 80 | 75 | 92 | 84 | 79 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 |
| 7 | 84 | 75 | 70 | 65 | 83 | 75 | 69 | 65 | 74 | 69 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 |
| 8 | 80 | 71 | 65 | 61 | 79 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 63 | 60 | 59 |
| 9 | 77 | 67 | 62 | 58 | 76 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 57 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |

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POLAR GRAPH



Maximum Candela = 1149.232 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)