

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00545_14 ~ SS3MX-XT13LE1-SD3X-XXK-XNMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00545_14_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 2/16/2017

[UPDATE] 5/8/2017

[LUMCAT] SS3Mx-XT13L-E1-SD3x-xxK-XN-MW-SO

[LUMINAIRE] Nom. 3" Square Downlight, Xtra Narrow Beam

[OTHER] Matte White Trim, Solite Lens

[OTHER] 11.9 Degree Beam Angle

[LAMP] N/A, 9mm LES

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] For New Construction Non-IC Housing: SS3MO-XT-series

[OTHER] For Remodel/Retrofit Housing: SS3MR-XT-Series

[OTHER] For SD3F or SD3N 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 | 866 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 42 |
| Total Luminaire Watts | 20.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.24 |
| Spacing Criterion (90-270) | 0.24 |
| Spacing Criterion (Diagonal) | 0.26 |
| 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_14 ~ SS3MX-XT13LE1-SD3X-XXK-XNMWGL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1516 | 2463 | 1516 |
| 55 | 3016 | 3191 | 3016 |
| 65 | 2824 | 4103 | 2824 |
| 75 | 1070 | 1009 | 1070 |
| 85 | 980 | 1531 | 980 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00545_14 ~ SS3MX-XT13LE1-SD3X-XXK-XNMWGL.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 7224.139 | 7224.139 | 7224.139 | 7224.139 | 7224.139 |
| 5 | 4924.655 | 5401.511 | 6287.316 | 5401.511 | 4924.655 |
| 10 | 1213.003 | 1404.636 | 1958.258 | 1404.636 | 1213.003 |
| 15 | 486.662 | 531.106 | 657.665 | 531.106 | 486.662 |
| 20 | 394.588 | 409.377 | 450.298 | 409.377 | 394.588 |
| 25 | 334.034 | 367.600 | 408.153 | 367.600 | 334.034 |
| 30 | 102.195 | 185.403 | 359.932 | 185.403 | 102.195 |
| 35 | 25.257 | 38.535 | 248.977 | 38.535 | 25.257 |
| 40 | 15.504 | 15.175 | 68.112 | 15.175 | 15.504 |
| 45 | 9.732 | 12.317 | 15.815 | 12.317 | 9.732 |
| 50 | 8.322 | 9.678 | 14.985 | 9.678 | 8.322 |
| 55 | 15.711 | 14.922 | 16.621 | 14.922 | 15.711 |
| 60 | 21.165 | 22.043 | 24.658 | 22.043 | 21.165 |
| 65 | 10.838 | 10.043 | 15.746 | 10.043 | 10.838 |
| 70 | 4.520 | 3.872 | 5.177 | 3.872 | 4.520 |
| 75 | 2.515 | 2.322 | 2.371 | 2.322 | 2.515 |
| 80 | 2.467 | 2.813 | 1.994 | 2.813 | 2.467 |
| 85 | 0.776 | 1.471 | 1.212 | 1.471 | 0.776 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00545_14 ~ SS3MX-XT13LE1-SD3X-XXK-XNMWGL.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 603.68 | N.A. | 69.70 |
| 0-30 | 759.13 | N.A. | 87.70 |
| 0-40 | 822.14 | N.A. | 95.00 |
| 0-60 | 848.91 | N.A. | 98.10 |
| 0-80 | 864.35 | N.A. | 99.80 |
| 0-90 | 865.71 | N.A. | 100.00 |
| 10-90 | 463.17 | N.A. | 53.50 |
| 20-40 | 218.46 | N.A. | 25.20 |
| 20-50 | 230.74 | N.A. | 26.70 |
| 40-70 | 39.13 | N.A. | 4.50 |
| 60-80 | 15.43 | N.A. | 1.80 |
| 70-80 | 3.07 | N.A. | 0.40 |
| 80-90 | 1.36 | N.A. | 0.20 |
| 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 | 865.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 402.53 |
| 10-20 | 201.15 |
| 20-30 | 155.45 |
| 30-40 | 63.00 |
| 40-50 | 12.29 |
| 50-60 | 14.49 |
| 60-70 | 12.36 |
| 70-80 | 3.07 |
| 80-90 | 1.36 |
| 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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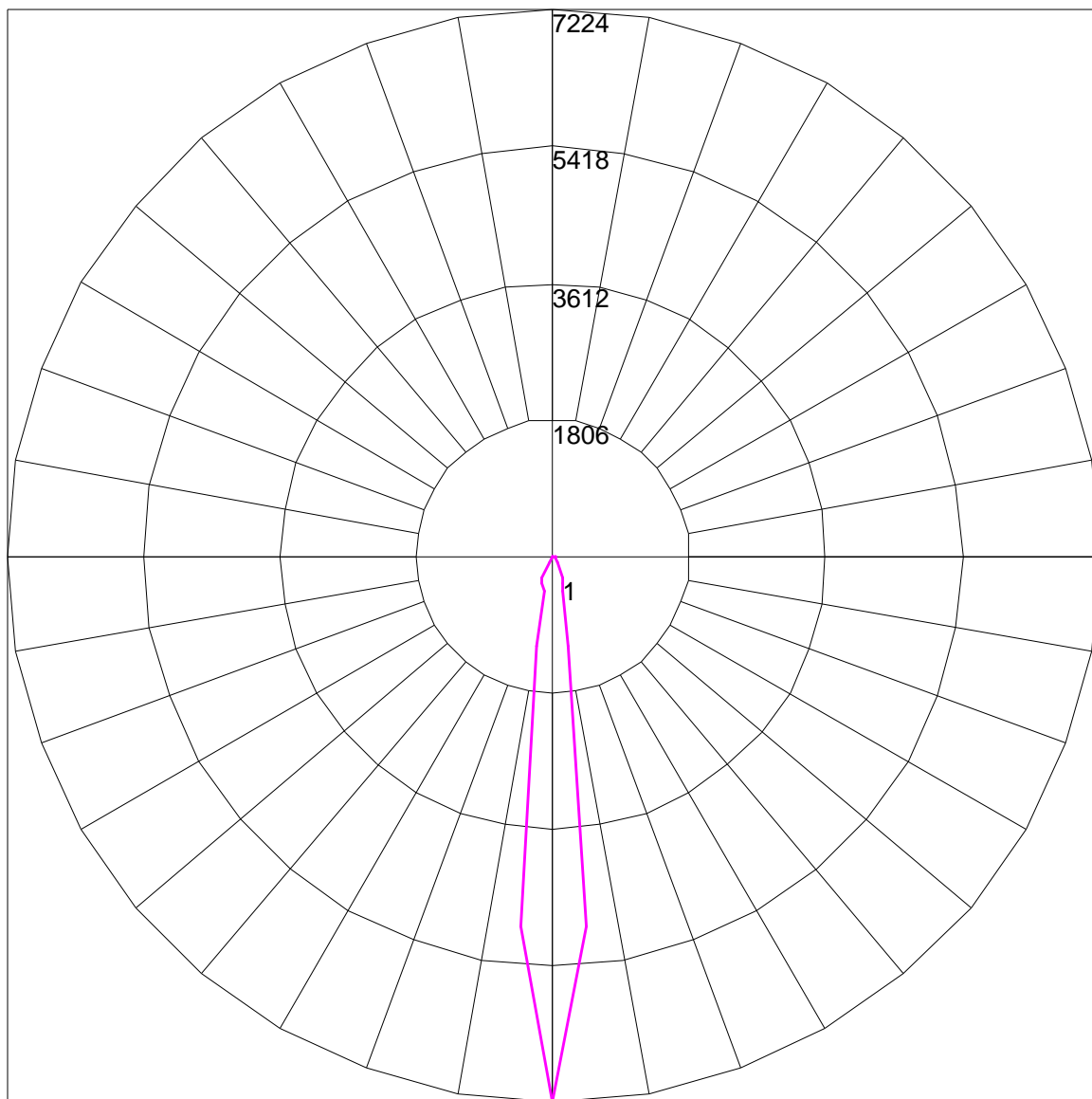
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 7224.139 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)