

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00544_8 ~ SR2MRX-XT10LE1-XD2FXXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00544_8_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/21/2017

[UPDATE] 4/19/2017

[LUMCAT] SR2MRx-XT10L-E1-xD2F-xxK-WD-MW-SO

[LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Wide Beam

[OTHER] Matte White Trim, Solite lens

[OTHER] 40.0 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: SR2MO-XT-series

[OTHER] For New Construction IC Rated Housing: SR2MI-XT-Series

[OTHER] For Remodel/Retrofit Housing: SR2MR-XT-Series

[OTHER] For RD2F or SD2F 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 | 597 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 54 |
| Total Luminaire Watts | 11.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.66 |
| Spacing Criterion (90-270) | 0.66 |
| Spacing Criterion (Diagonal) | 0.70 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 0.24 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00544_8 ~ SR2MRX-XT10LE1-XD2FXXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6009 | 7262 | 5909 |
| 55 | 4193 | 4587 | 4196 |
| 65 | 2696 | 3897 | 3956 |
| 75 | 2009 | 2801 | 3130 |
| 85 | 1647 | 3300 | 2014 |

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| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1213.841 | 1213.841 | 1213.841 | 1213.841 | 1213.841 |
| 5 | 1189.267 | 1182.259 | 1186.276 | 1187.308 | 1179.549 |
| 10 | 1071.172 | 1059.744 | 1073.667 | 1067.908 | 1051.302 |
| 15 | 851.004 | 850.817 | 869.094 | 854.844 | 831.370 |
| 20 | 608.138 | 631.989 | 629.024 | 624.599 | 604.005 |
| 25 | 341.302 | 398.191 | 443.207 | 375.794 | 335.994 |
| 30 | 119.782 | 165.559 | 241.195 | 147.298 | 114.311 |
| 35 | 27.924 | 35.572 | 85.629 | 28.749 | 25.052 |
| 40 | 22.322 | 21.759 | 26.222 | 20.240 | 21.225 |
| 45 | 17.137 | 17.238 | 20.710 | 16.672 | 16.852 |
| 50 | 13.102 | 13.451 | 15.447 | 12.697 | 13.442 |
| 55 | 9.699 | 9.809 | 10.611 | 10.630 | 9.708 |
| 60 | 5.837 | 6.073 | 8.083 | 7.812 | 7.988 |
| 65 | 4.595 | 4.593 | 6.642 | 7.153 | 6.743 |
| 70 | 2.965 | 3.243 | 5.379 | 4.735 | 4.912 |
| 75 | 2.097 | 1.835 | 2.924 | 2.480 | 3.267 |
| 80 | 1.172 | 1.532 | 6.002 | 2.483 | 2.077 |
| 85 | 0.579 | 0.662 | 1.160 | 1.214 | 0.708 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00544_8 ~ SR2MRX-XT10LE1-XD2FXXK-WDMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 344.78 | N.A. | 57.70 |
| 0-30 | 521.36 | N.A. | 87.30 |
| 0-40 | 563.68 | N.A. | 94.40 |
| 0-60 | 586.77 | N.A. | 98.30 |
| 0-80 | 595.83 | N.A. | 99.80 |
| 0-90 | 597.12 | N.A. | 100.00 |
| 10-90 | 487.93 | N.A. | 81.70 |
| 20-40 | 218.90 | N.A. | 36.70 |
| 20-50 | 232.77 | N.A. | 39.00 |
| 40-70 | 28.93 | N.A. | 4.80 |
| 60-80 | 9.06 | N.A. | 1.50 |
| 70-80 | 3.22 | N.A. | 0.50 |
| 80-90 | 1.29 | 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 | 597.12 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 109.19 |
| 10-20 | 235.59 |
| 20-30 | 176.58 |
| 30-40 | 42.31 |
| 40-50 | 13.87 |
| 50-60 | 9.22 |
| 60-70 | 5.83 |
| 70-80 | 3.22 |
| 80-90 | 1.29 |
| 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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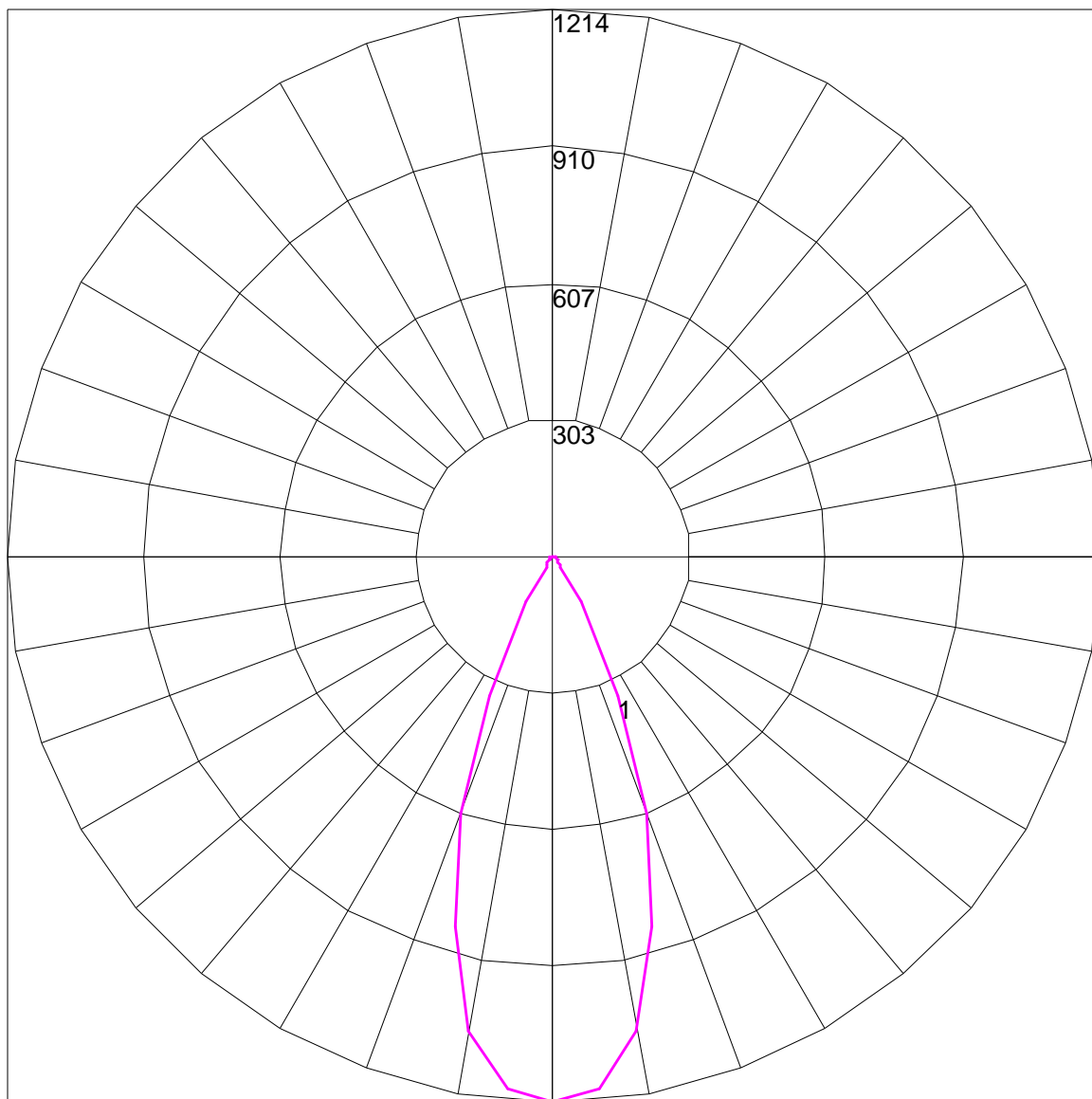
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 105 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | 92 | 90 | 87 | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 80 | 86 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 78 | 76 |
| 6 | 92 | 84 | 79 | 76 | 91 | 84 | 79 | 75 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 73 |
| 7 | 89 | 81 | 75 | 72 | 87 | 80 | 75 | 72 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 77 | 72 | 68 | 75 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 68 | 65 | 72 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 63 |
| 10 | 79 | 71 | 66 | 62 | 78 | 70 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 65 | 62 | 61 |

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POLAR GRAPH



Maximum Candela = 1213.841 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)