

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP_00547_5 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWSO.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00547.5_M-30L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/21/2017
 [UPDATE] 4/20/2017
 [LUMCAT] SS4MRx-XT30L-E1-SDD4x-xxK-ND-MW-SO
 [LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Narrow Beam
 [OTHER] Matte White Trim, Solite lens
 [OTHER] 23.7 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: SS4MO-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 | 1968 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 57 |
| Total Luminaire Watts | 34.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.40 |
| Spacing Criterion (90-270) | 0.40 |
| Spacing Criterion (Diagonal) | 0.42 |
| 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_5 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 22237 | 39877 | 22111 |
| 55 | 14457 | 24041 | 13906 |
| 65 | 9766 | 9827 | 8703 |
| 75 | 2122 | 2946 | 1981 |
| 85 | 3182 | 3604 | 4589 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00547_5 ~ SS4MX-XT30LE1-SDD4X-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> |
|-----------|-------------------|--------------------|--------------------|--------------------|--------------------|
| 0 | 7322.197 | 7322.197 | 7322.197 | 7322.197 | 7322.197 |
| 5 | 6478.902 | 6546.833 | 6396.518 | 6486.421 | 6442.803 |
| 10 | 4366.303 | 4433.830 | 4235.584 | 4257.301 | 4162.524 |
| 15 | 2447.635 | 2492.345 | 2383.558 | 2340.713 | 2311.645 |
| 20 | 1347.443 | 1387.005 | 1375.459 | 1336.835 | 1311.366 |
| 25 | 775.985 | 869.965 | 903.966 | 838.383 | 771.583 |
| 30 | 428.201 | 531.294 | 604.355 | 497.713 | 413.953 |
| 35 | 211.954 | 291.821 | 353.727 | 256.078 | 189.340 |
| 40 | 100.623 | 148.292 | 179.333 | 124.841 | 88.912 |
| 45 | 57.323 | 84.451 | 102.796 | 73.721 | 56.998 |
| 50 | 40.696 | 54.805 | 70.791 | 50.865 | 39.039 |
| 55 | 30.230 | 39.663 | 50.270 | 38.366 | 29.077 |
| 60 | 23.073 | 28.288 | 29.226 | 26.459 | 22.109 |
| 65 | 15.046 | 14.147 | 15.141 | 16.255 | 13.408 |
| 70 | 6.958 | 7.152 | 5.646 | 6.894 | 7.598 |
| 75 | 2.002 | 2.638 | 2.780 | 2.123 | 1.869 |
| 80 | 1.452 | 1.157 | 0.724 | 1.152 | 2.448 |
| 85 | 1.011 | 1.295 | 1.145 | 1.745 | 1.458 |
| 90 | 0.505 | 0.291 | 0.889 | 0.658 | 1.259 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP_00547_5 ~ SS4MX-XT30LE1-SDD4X-XXK-NDMWSO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1257.03 | N.A. | 63.90 |
| 0-30 | 1660.28 | N.A. | 84.40 |
| 0-40 | 1845.29 | N.A. | 93.80 |
| 0-60 | 1947.98 | N.A. | 99.00 |
| 0-80 | 1966.93 | N.A. | 99.90 |
| 0-90 | 1968.19 | N.A. | 100.00 |
| 10-90 | 1417.99 | N.A. | 72.00 |
| 20-40 | 588.27 | N.A. | 29.90 |
| 20-50 | 655.32 | N.A. | 33.30 |
| 40-70 | 118.29 | N.A. | 6.00 |
| 60-80 | 18.95 | N.A. | 1.00 |
| 70-80 | 3.35 | N.A. | 0.20 |
| 80-90 | 1.26 | 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 | 1968.19 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 550.21 |
| 10-20 | 706.82 |
| 20-30 | 403.25 |
| 30-40 | 185.01 |
| 40-50 | 67.06 |
| 50-60 | 35.63 |
| 60-70 | 15.60 |
| 70-80 | 3.35 |
| 80-90 | 1.26 |
| 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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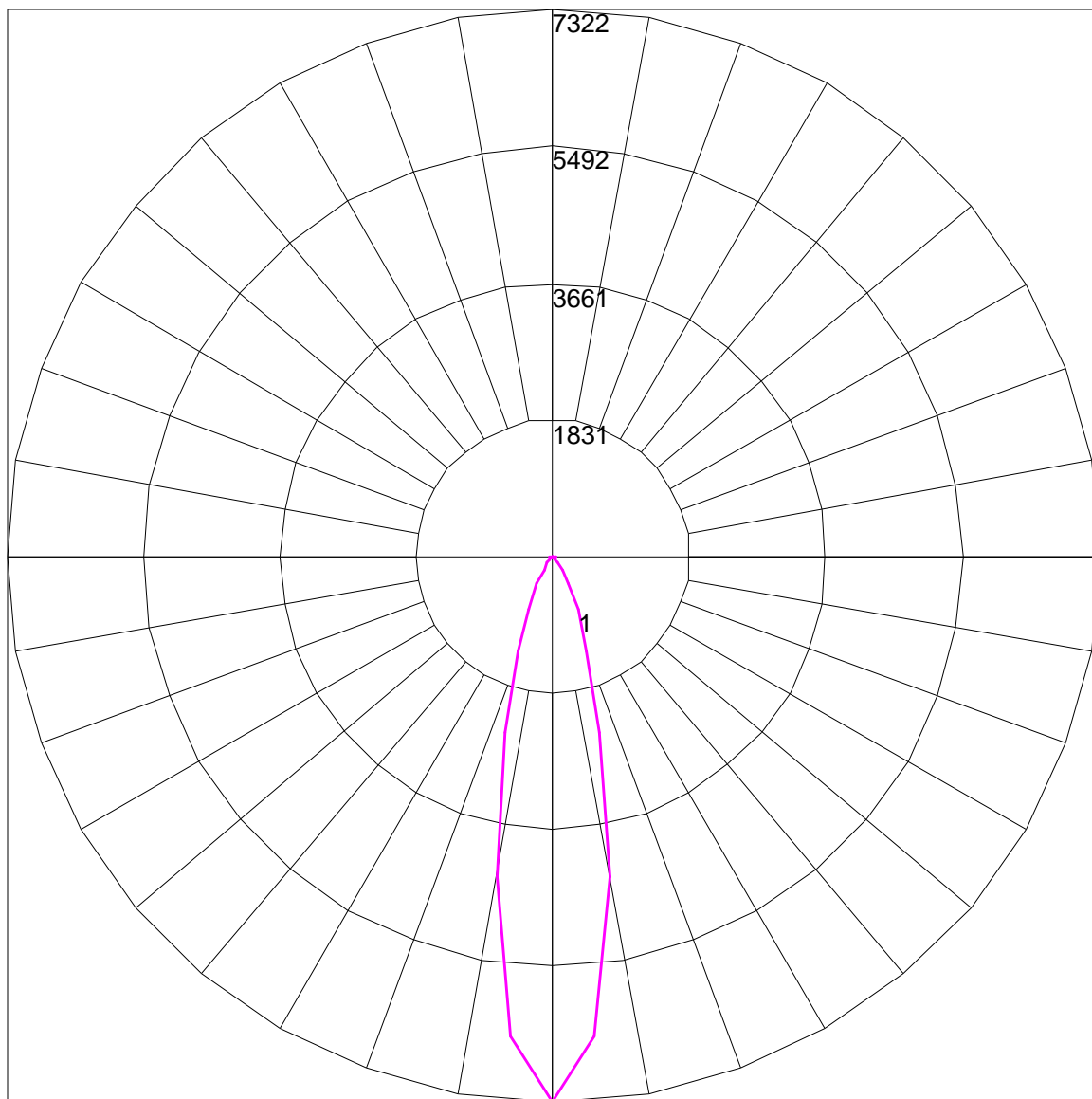
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 96 | 92 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 89 | 88 | 86 |
| 4 | 101 | 95 | 90 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 86 | 83 | 82 |
| 5 | 97 | 91 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 78 |
| 6 | 94 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 80 | 77 | 82 | 79 | 76 | 75 |
| 7 | 91 | 83 | 78 | 75 | 89 | 82 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 |
| 8 | 87 | 80 | 75 | 72 | 86 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 74 | 71 | 76 | 73 | 71 | 69 |
| 9 | 85 | 77 | 72 | 69 | 84 | 76 | 72 | 69 | 75 | 71 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 67 |
| 10 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 72 | 68 | 66 | 65 |

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POLAR GRAPH



Maximum Candela = 7322.197 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)