

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00618_19 ~ C0611SQXT-13LXXK-XWEX-TCY-SOMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00618_19_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/26/2018
 [LUMCAT] C0611SQXT-13L-xxK-XW-EX-TCY-SO-xx-MW
 [LUMINAIRE] Nom. 6" Square, LED Cylinder Downlight
 [OTHER] Upper, Internal Reflector, Xtra Wide Beam
 [OTHER] Lower Trim, Same Color as Cylinder - Matte White
 [OTHER] Frosted Glass Lens, Flush with Lower Trim
 [OTHER] 53.2 Degree Beam Angle
 [LAMPCAT] N/A
 [LAMP] N/A, 19mm LES
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1150 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 88 |
| Total Luminaire Watts | 13 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.82 |
| Spacing Criterion (90-270) | 0.82 |
| Spacing Criterion (Diagonal) | 0.90 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.32 ft |
| Luminous Width (90-270) | 0.32 ft |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00618_19 ~ C0611SQXT-13LXXK-XWEX-TCY-SOMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 10054 | 9783 | 9749 |
| 55 | 4056 | 5325 | 4595 |
| 65 | 3524 | 4027 | 3881 |
| 75 | 3436 | 3448 | 3815 |
| 85 | 2497 | 2036 | 2491 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|-----|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 |
| 5 | 1332.039 | 1328.584 | 1323.455 | 1333.518 | 1337.487 | 1355.939 | 1357.266 | 1353.592 | 1358.948 | 1357.243 |
| 10 | 1260.852 | 1252.273 | 1243.125 | 1258.648 | 1261.448 | 1303.902 | 1304.403 | 1300.250 | 1306.304 | 1306.575 |
| 15 | 1138.104 | 1134.374 | 1120.482 | 1130.812 | 1132.332 | 1202.174 | 1210.593 | 1201.983 | 1207.808 | 1212.083 |
| 20 | 969.173 | 981.379 | 964.714 | 969.521 | 959.712 | 1050.233 | 1066.207 | 1056.923 | 1061.996 | 1072.484 |
| 25 | 701.881 | 771.565 | 785.349 | 752.672 | 699.900 | 873.628 | 893.591 | 880.097 | 873.887 | 902.190 |
| 30 | 348.459 | 430.380 | 549.340 | 435.989 | 371.989 | 624.543 | 691.487 | 616.337 | 556.153 | 645.629 |
| 35 | 175.986 | 187.969 | 289.155 | 192.312 | 174.083 | 314.809 | 451.054 | 301.985 | 251.038 | 321.847 |
| 40 | 108.467 | 107.632 | 118.506 | 104.683 | 101.904 | 141.252 | 230.617 | 140.411 | 138.201 | 152.039 |
| 45 | 66.304 | 67.691 | 64.522 | 66.013 | 64.295 | 83.774 | 100.789 | 84.694 | 86.600 | 92.203 |
| 50 | 38.248 | 41.865 | 42.196 | 41.712 | 39.715 | 55.420 | 57.616 | 54.727 | 53.130 | 58.185 |
| 55 | 21.697 | 25.969 | 28.487 | 27.425 | 24.579 | 37.856 | 39.588 | 36.749 | 32.576 | 37.305 |
| 60 | 15.545 | 18.353 | 20.393 | 19.391 | 17.923 | 27.486 | 28.938 | 25.953 | 22.484 | 24.909 |
| 65 | 13.889 | 15.614 | 15.874 | 15.524 | 15.297 | 22.613 | 23.228 | 21.165 | 18.444 | 19.346 |
| 70 | 11.623 | 12.679 | 12.467 | 12.785 | 13.135 | 21.207 | 19.650 | 19.971 | 18.071 | 17.709 |
| 75 | 8.294 | 8.832 | 8.323 | 7.681 | 9.209 | 17.970 | 15.551 | 18.508 | 16.277 | 16.299 |
| 80 | 5.175 | 4.914 | 4.659 | 4.943 | 4.872 | 14.428 | 13.517 | 13.902 | 12.986 | 12.223 |
| 85 | 2.030 | 2.355 | 1.655 | 1.816 | 2.025 | 10.331 | 9.902 | 9.891 | 9.327 | 9.030 |
| 90 | 1.135 | 0.955 | 0.754 | 0.912 | 0.851 | 5.993 | 5.788 | 5.876 | 5.851 | 5.540 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 | 1368.844 |
| 5 | 1366.103 | 1362.129 | 1360.395 | 1346.234 | 1343.018 | 1340.617 | 1332.039 |
| 10 | 1320.572 | 1316.917 | 1315.989 | 1285.026 | 1280.654 | 1278.006 | 1260.852 |
| 15 | 1235.691 | 1227.890 | 1225.503 | 1174.997 | 1172.968 | 1163.559 | 1138.104 |
| 20 | 1106.903 | 1090.120 | 1082.064 | 1010.747 | 1024.814 | 1009.064 | 969.173 |
| 25 | 950.788 | 911.289 | 880.732 | 783.574 | 855.495 | 792.285 | 701.881 |
| 30 | 774.779 | 628.282 | 513.277 | 440.995 | 631.871 | 432.290 | 348.459 |
| 35 | 537.740 | 299.870 | 235.983 | 200.720 | 337.232 | 194.732 | 175.986 |
| 40 | 267.968 | 147.030 | 137.140 | 114.465 | 132.579 | 113.482 | 108.467 |
| 45 | 108.303 | 89.621 | 84.764 | 69.812 | 70.664 | 70.430 | 66.304 |

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| | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|--------|
| 50 | 62.122 | 55.960 | 50.691 | 41.376 | 43.386 | 42.970 | 38.248 |
| 55 | 40.119 | 34.736 | 29.582 | 24.397 | 27.617 | 26.200 | 21.697 |
| 60 | 27.282 | 23.076 | 17.978 | 15.650 | 18.794 | 17.353 | 15.545 |
| 65 | 19.926 | 18.408 | 15.266 | 12.591 | 13.947 | 14.645 | 13.889 |
| 70 | 17.130 | 17.077 | 15.234 | 10.799 | 10.961 | 12.036 | 11.623 |
| 75 | 15.216 | 15.243 | 14.145 | 8.041 | 7.768 | 9.130 | 8.294 |
| 80 | 12.414 | 12.407 | 11.836 | 4.470 | 4.555 | 5.388 | 5.175 |
| 85 | 9.988 | 10.072 | 7.976 | 2.174 | 1.881 | 2.601 | 2.030 |
| 90 | 6.682 | 6.629 | 7.075 | 0.916 | 0.919 | 0.305 | 1.135 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 455.28 | N.A. | 39.60 |
| 0-30 | 824.54 | N.A. | 71.70 |
| 0-40 | 1015.74 | N.A. | 88.30 |
| 0-60 | 1111.84 | N.A. | 96.70 |
| 0-80 | 1142.27 | N.A. | 99.30 |
| 0-90 | 1148.83 | N.A. | 99.90 |
| 10-90 | 1022.11 | N.A. | 88.90 |
| 20-40 | 560.46 | N.A. | 48.70 |
| 20-50 | 627.16 | N.A. | 54.50 |
| 40-70 | 113.68 | N.A. | 9.90 |
| 60-80 | 30.43 | N.A. | 2.60 |
| 70-80 | 12.84 | N.A. | 1.10 |
| 80-90 | 6.56 | N.A. | 0.60 |
| 90-110 | 0.96 | N.A. | 0.10 |
| 90-120 | 0.96 | N.A. | 0.10 |
| 90-130 | 0.96 | N.A. | 0.10 |
| 90-150 | 0.96 | N.A. | 0.10 |
| 90-180 | 0.96 | N.A. | 0.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1149.79 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 126.71 |
| 10-20 | 328.57 |
| 20-30 | 369.26 |
| 30-40 | 191.21 |
| 40-50 | 66.70 |
| 50-60 | 29.40 |
| 60-70 | 17.58 |
| 70-80 | 12.84 |
| 80-90 | 6.56 |
| 90-100 | 0.96 |
| 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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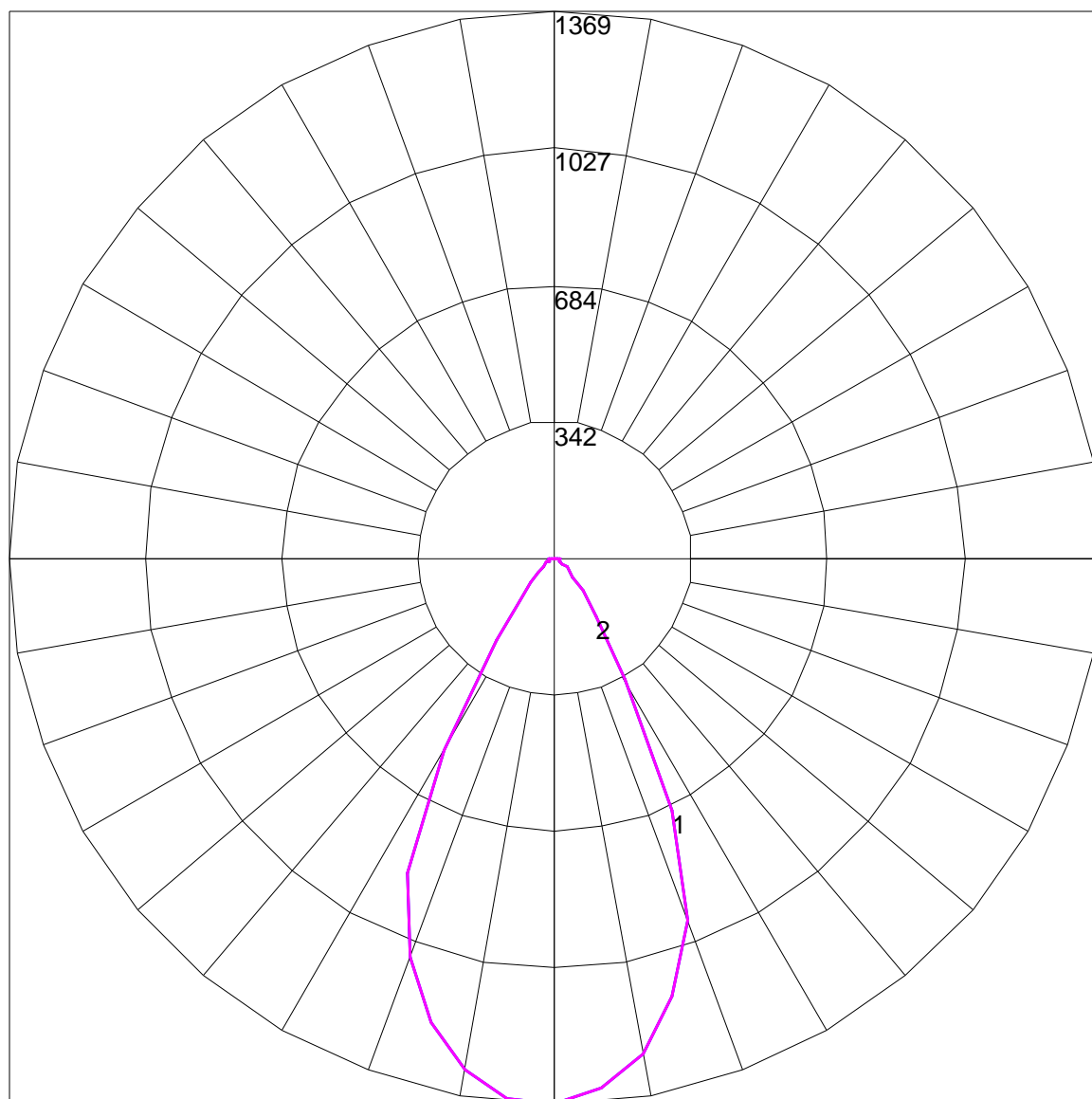
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 102 | 95 | 90 | 85 | 100 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 89 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 64 |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 60 |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 62 | 58 | 65 | 61 | 58 | 57 |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 |
| 10 | 72 | 62 | 56 | 52 | 71 | 61 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 52 | 59 | 55 | 52 | 50 |

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POLAR GRAPH



Maximum Candela = 1368.844 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)