

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P523971

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523971
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11352.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

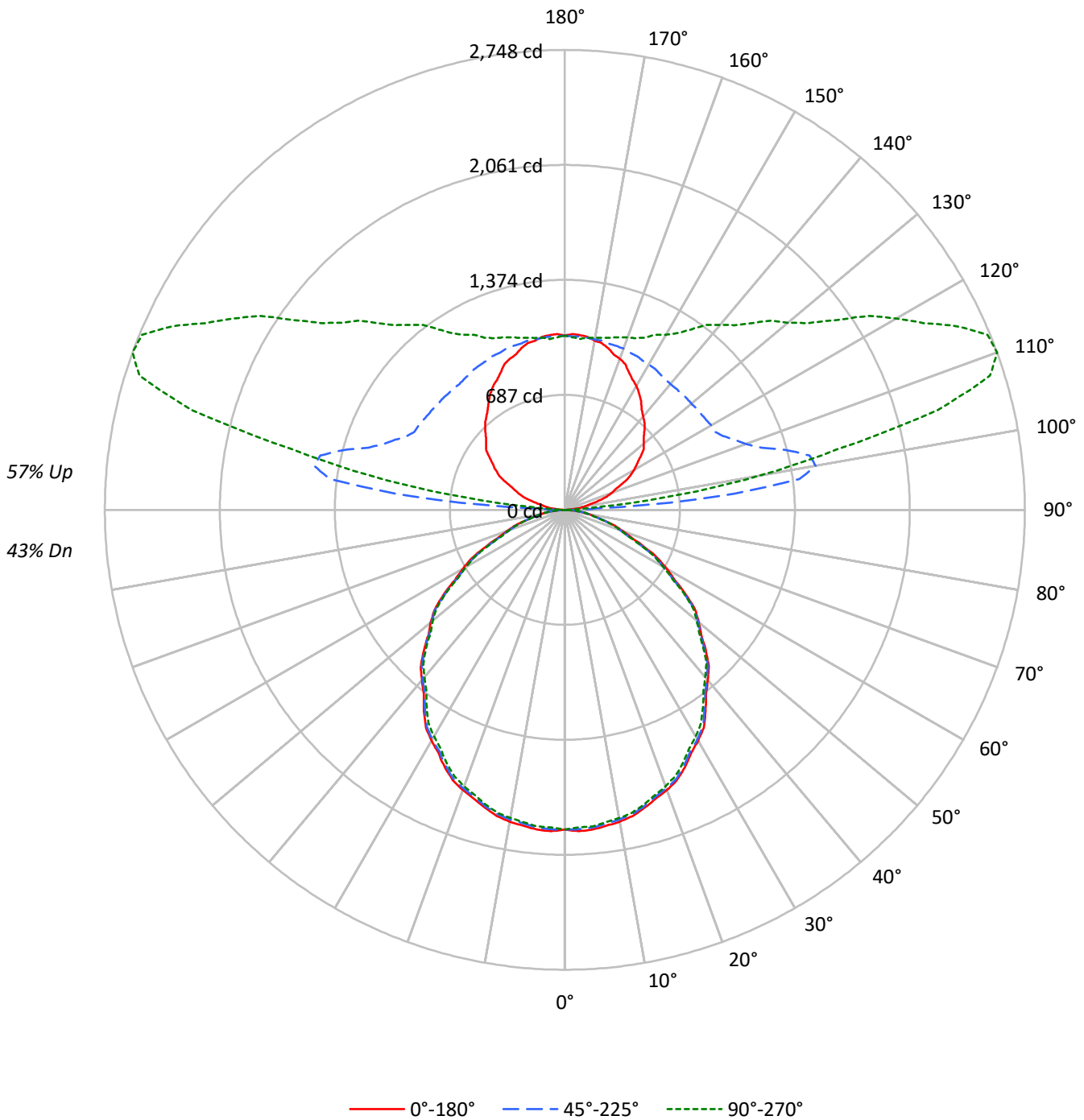
Input Watts (W): 106.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P523971

CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P523971

CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 64 | 64 | 64 | 50 | 50 | 50 | 43 | | |
| 1 | 96 | 92 | 88 | 85 | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 42 | 37 | | |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 61 | 58 | 55 | 50 | 47 | 45 | 39 | 37 | 36 | 31 | | |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | 26 | | |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 36 | 33 | 31 | 29 | 27 | 23 | | |
| 5 | 67 | 56 | 48 | 42 | 61 | 52 | 45 | 39 | 43 | 38 | 34 | 35 | 31 | 28 | 28 | 25 | 23 | 20 | | |
| 6 | 62 | 50 | 42 | 37 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 25 | 23 | 20 | 17 | | |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 | | |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 21 | 18 | 16 | 14 | | |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 20 | 17 | 15 | 12 | | |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 22 | 19 | 16 | 18 | 15 | 13 | 11 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17624 | 17624 | 17624 |
| 5° | 17753 | 17645 | 17583 |
| 10° | 17723 | 17598 | 17519 |
| 15° | 17606 | 17510 | 17414 |
| 20° | 17489 | 17390 | 17259 |
| 25° | 17282 | 17161 | 16991 |
| 30° | 16961 | 16872 | 16658 |
| 35° | 16517 | 16405 | 16197 |
| 40° | 15990 | 15888 | 15707 |
| 45° | 15553 | 15443 | 15291 |
| 50° | 14995 | 14899 | 14754 |
| 55° | 14218 | 14030 | 13922 |
| 60° | 12944 | 12573 | 12511 |
| 65° | 11402 | 10929 | 10892 |
| 70° | 9846 | 9439 | 9439 |
| 75° | 8473 | 8356 | 8235 |
| 80° | 7470 | 7561 | 7385 |
| 85° | 5843 | 6383 | 6383 |



TEST NUMBER: P523971

CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 180.6 | 1.6 |
| 10°-20° | 515.7 | 4.5 |
| 20°-30° | 772.5 | 6.8 |
| 30°-40° | 906.1 | 8.0 |
| 40°-50° | 909.0 | 8.0 |
| 50°-60° | 775.4 | 6.8 |
| 60°-70° | 505.7 | 4.5 |
| 70°-80° | 253.7 | 2.2 |
| 80°-90° | 70.2 | 0.6 |
| 90°-100° | 474.1 | 4.2 |
| 100°-110° | 1349.1 | 11.9 |
| 110°-120° | 1292.6 | 11.4 |
| 120°-130° | 1023.0 | 9.0 |
| 130°-140° | 821.1 | 7.2 |
| 140°-150° | 642.8 | 5.7 |
| 150°-160° | 470.4 | 4.1 |
| 160°-170° | 291.4 | 2.6 |
| 170°-180° | 98.9 | 0.9 |
| 0°-30° | 1468.9 | 12.9 |
| 0°-40° | 2375.0 | 20.9 |
| 0°-60° | 4059.4 | 35.8 |
| 0°-90° | 4889.0 | 43.1 |
| 90°-120° | 3115.8 | 27.4 |
| 90°-150° | 5602.8 | 49.4 |
| 90°-180° | 6463.0 | 56.9 |
| 0°-180° | 11352.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1910 | 1910 | 1910 | 1910 | 1910 | |
| 5° | 1917 | 1899 | 1905 | 1898 | 1898 | 182 |
| 15° | 1843 | 1825 | 1833 | 1826 | 1823 | 520 |
| 25° | 1698 | 1678 | 1686 | 1671 | 1669 | 781 |
| 35° | 1466 | 1452 | 1456 | 1440 | 1438 | 916 |
| 45° | 1192 | 1184 | 1184 | 1172 | 1172 | 918 |
| 55° | 884 | 881 | 872 | 867 | 866 | 786 |
| 65° | 522 | 512 | 501 | 497 | 499 | 521 |
| 75° | 238 | 238 | 234 | 233 | 231 | 258 |
| 85° | 55 | 60 | 60 | 60 | 60 | 65 |
| 90° | 0 | 0 | 0 | 0 | 0 | 4 |
| 95° | 51 | 204 | 918 | 318 | 196 | 59 |
| 105° | 210 | 318 | 1375 | 2428 | 2308 | 222 |
| 115° | 390 | 471 | 1042 | 2208 | 2593 | 384 |
| 125° | 550 | 610 | 995 | 1651 | 1974 | 492 |
| 135° | 673 | 729 | 983 | 1395 | 1577 | 519 |
| 145° | 793 | 834 | 991 | 1207 | 1316 | 496 |
| 155° | 906 | 927 | 1015 | 1091 | 1136 | 419 |
| 165° | 1001 | 1005 | 1027 | 1049 | 1064 | 281 |
| 175° | 1048 | 1043 | 1038 | 1032 | 1025 | 99 |
| 180° | 1040 | 1040 | 1040 | 1040 | 1040 | |

TEST NUMBER: P523971

CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1910.2 | 1910.2 | 1910.2 | 1910.2 | 1910.2 |
| 2.5° | 1922.2 | 1906.5 | 1910.2 | 1907.3 | 1899.5 |
| 5° | 1916.9 | 1898.9 | 1905.2 | 1898.5 | 1898.5 |
| 7.5° | 1903.8 | 1884.2 | 1890.4 | 1883.7 | 1883.4 |
| 10° | 1891.8 | 1872.1 | 1878.4 | 1871.6 | 1870.0 |
| 12.5° | 1874.4 | 1854.7 | 1862.3 | 1854.3 | 1853.9 |
| 15° | 1843.2 | 1825.2 | 1833.2 | 1826.4 | 1823.1 |
| 17.5° | 1808.1 | 1788.4 | 1798.0 | 1788.6 | 1787.3 |
| 20° | 1781.3 | 1761.6 | 1771.2 | 1757.8 | 1757.8 |
| 22.5° | 1749.1 | 1729.5 | 1740.4 | 1723.0 | 1723.0 |
| 25° | 1697.6 | 1677.9 | 1685.8 | 1670.7 | 1669.1 |
| 27.5° | 1636.3 | 1617.0 | 1625.2 | 1608.2 | 1607.8 |
| 30° | 1592.1 | 1574.1 | 1583.7 | 1565.3 | 1563.6 |
| 32.5° | 1543.9 | 1527.2 | 1534.2 | 1515.7 | 1514.1 |
| 35° | 1466.5 | 1451.8 | 1456.5 | 1439.7 | 1438.1 |
| 37.5° | 1385.2 | 1370.1 | 1375.5 | 1361.1 | 1360.4 |
| 40° | 1327.6 | 1317.8 | 1319.2 | 1307.4 | 1304.1 |
| 42.5° | 1274.0 | 1262.9 | 1264.3 | 1252.6 | 1251.9 |
| 45° | 1192.0 | 1183.8 | 1183.6 | 1171.9 | 1171.9 |
| 47.5° | 1104.9 | 1098.7 | 1096.9 | 1087.2 | 1086.8 |
| 50° | 1044.7 | 1039.7 | 1038.0 | 1029.6 | 1027.9 |
| 52.5° | 981.7 | 979.4 | 973.7 | 966.6 | 966.3 |
| 55° | 883.9 | 880.7 | 872.2 | 867.2 | 865.5 |
| 57.5° | 777.8 | 771.3 | 761.7 | 754.4 | 755.7 |
| 60° | 701.5 | 694.9 | 681.4 | 678.0 | 678.0 |
| 62.5° | 627.8 | 619.9 | 606.4 | 601.7 | 604.4 |
| 65° | 522.3 | 512.5 | 500.6 | 497.3 | 498.9 |
| 67.5° | 426.6 | 417.7 | 404.8 | 404.8 | 403.5 |
| 70° | 365.0 | 360.0 | 349.9 | 349.9 | 349.9 |
| 72.5° | 310.0 | 307.8 | 300.3 | 300.3 | 299.0 |
| 75° | 237.7 | 237.7 | 234.4 | 232.7 | 231.0 |
| 77.5° | 178.1 | 178.8 | 177.1 | 175.4 | 172.4 |
| 80° | 140.6 | 143.9 | 142.3 | 140.6 | 139.0 |
| 82.5° | 105.8 | 109.1 | 108.8 | 105.8 | 105.5 |
| 85° | 55.2 | 60.2 | 60.3 | 60.3 | 60.3 |
| 87.5° | 14.7 | 20.0 | 21.4 | 21.5 | 22.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 15.8 | 83.9 | 194.7 | 56.7 | 42.7 |
| 95° | 51.4 | 204.2 | 917.9 | 317.7 | 195.8 |
| 97.5° | 94.6 | 239.2 | 1413.6 | 1011.5 | 693.2 |
| 100° | 124.6 | 260.0 | 1521.2 | 1540.9 | 1186.9 |
| 102.5° | 157.9 | 282.4 | 1497.5 | 1972.3 | 1663.2 |
| 105° | 209.7 | 318.0 | 1374.8 | 2428.4 | 2308.5 |
| 107.5° | 262.3 | 359.4 | 1231.6 | 2557.0 | 2663.8 |
| 110° | 298.7 | 389.6 | 1149.3 | 2507.8 | 2747.7 |

TEST NUMBER: P523971

CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 333.5 | 419.8 | 1093.9 | 2391.5 | 2733.4 |
| 115° | 389.7 | 470.9 | 1042.5 | 2208.5 | 2593.4 |
| 117.5° | 439.2 | 515.4 | 1012.0 | 2008.4 | 2416.1 |
| 120° | 478.7 | 542.5 | 1008.9 | 1894.1 | 2284.8 |
| 122.5° | 510.4 | 574.2 | 1001.0 | 1793.7 | 2156.6 |
| 125° | 549.9 | 609.9 | 995.0 | 1651.2 | 1974.2 |
| 127.5° | 593.1 | 649.1 | 991.9 | 1566.0 | 1832.2 |
| 130° | 615.2 | 671.3 | 987.1 | 1506.7 | 1738.8 |
| 132.5° | 638.9 | 693.5 | 987.1 | 1460.4 | 1673.9 |
| 135° | 672.6 | 728.7 | 983.2 | 1394.8 | 1576.6 |
| 137.5° | 704.2 | 758.8 | 982.8 | 1339.2 | 1496.3 |
| 140° | 728.0 | 784.1 | 981.2 | 1293.2 | 1444.1 |
| 142.5° | 754.9 | 801.7 | 985.9 | 1256.4 | 1391.8 |
| 145° | 793.2 | 833.9 | 991.1 | 1207.2 | 1315.5 |
| 147.5° | 826.1 | 865.5 | 999.8 | 1157.4 | 1251.0 |
| 150° | 854.6 | 881.6 | 1002.9 | 1140.9 | 1206.7 |
| 152.5° | 876.7 | 905.4 | 1006.1 | 1118.7 | 1179.8 |
| 155° | 906.0 | 927.3 | 1014.8 | 1091.0 | 1135.5 |
| 157.5° | 942.4 | 955.2 | 1016.8 | 1078.4 | 1110.1 |
| 160° | 961.4 | 971.1 | 1024.7 | 1068.8 | 1095.9 |
| 162.5° | 972.5 | 983.7 | 1026.3 | 1060.8 | 1081.7 |
| 165° | 1001.0 | 1004.8 | 1026.7 | 1048.8 | 1064.3 |
| 167.5° | 1020.3 | 1016.9 | 1035.8 | 1045.8 | 1052.0 |
| 170° | 1026.7 | 1024.7 | 1032.6 | 1034.8 | 1042.5 |
| 172.5° | 1040.9 | 1034.3 | 1037.4 | 1031.6 | 1037.7 |
| 175° | 1048.4 | 1042.6 | 1038.5 | 1032.4 | 1024.7 |
| 177.5° | 1051.6 | 1042.3 | 1037.4 | 1031.1 | 1032.6 |
| 180° | 1040.5 | 1040.5 | 1040.5 | 1040.5 | 1040.5 |

(END OF REPORT)