

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: P562928

Luminaire Tested: **SQ4-PC3-100U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562928  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-100U-075D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

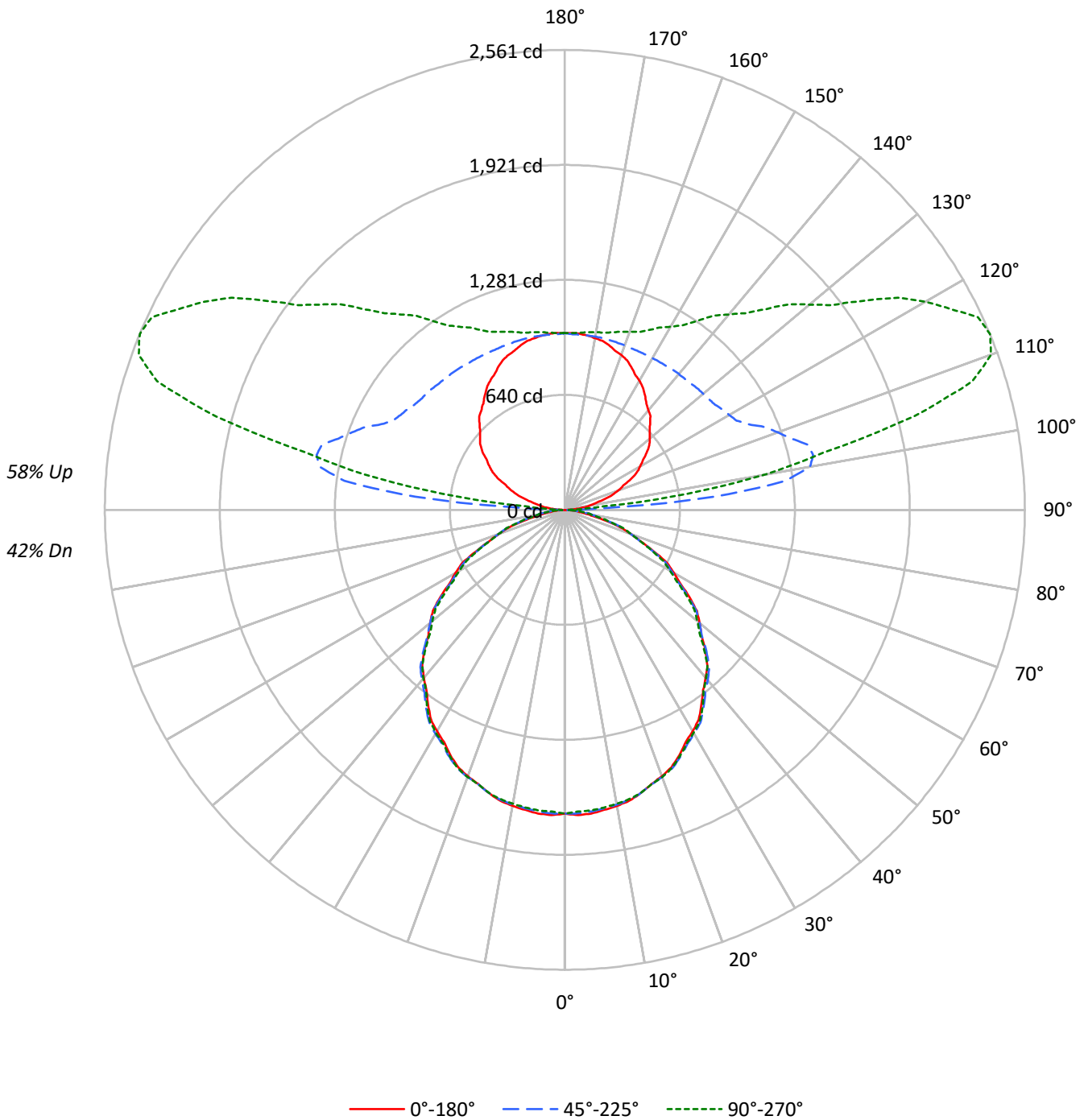
Lumens per Lamp: N/A  
Luminaire Lumens: 11010.3 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 103.9  
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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 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  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 79 | 79 | 79 | 63 | 63 | 63 | 49 | 49 | 49 | 42 |
| 1   | 96  | 92  | 88  | 85  | 87 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 | 35 |
| 2   | 87  | 80  | 74  | 69  | 80 | 73 | 68 | 64 | 61 | 57 | 54 | 49 | 46 | 44 | 38 | 36 | 35 | 30 |
| 3   | 80  | 70  | 63  | 57  | 72 | 64 | 58 | 53 | 53 | 49 | 45 | 43 | 40 | 37 | 34 | 31 | 30 | 25 |
| 4   | 73  | 62  | 54  | 48  | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 35 | 32 | 30 | 27 | 25 | 22 |
| 5   | 67  | 55  | 47  | 41  | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 | 19 |
| 6   | 61  | 50  | 42  | 36  | 56 | 46 | 39 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 22 | 19 | 16 |
| 7   | 57  | 45  | 37  | 31  | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8   | 53  | 40  | 33  | 28  | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 18 | 15 | 13 |
| 9   | 49  | 37  | 29  | 24  | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10  | 46  | 34  | 27  | 22  | 42 | 31 | 25 | 20 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 15 | 13 | 11 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7803 | 7803 | 7803 |
| 5°  | 7862 | 7811 | 7782 |
| 10° | 7842 | 7806 | 7784 |
| 15° | 7801 | 7801 | 7794 |
| 20° | 7750 | 7773 | 7773 |
| 25° | 7677 | 7733 | 7709 |
| 30° | 7583 | 7675 | 7642 |
| 35° | 7470 | 7585 | 7532 |
| 40° | 7347 | 7451 | 7375 |
| 45° | 7213 | 7264 | 7152 |
| 50° | 7025 | 7025 | 6913 |
| 55° | 6802 | 6714 | 6613 |
| 60° | 6473 | 6343 | 6242 |
| 65° | 5984 | 5864 | 5813 |
| 70° | 5239 | 5280 | 5260 |
| 75° | 4215 | 4661 | 4689 |
| 80° | 2997 | 3953 | 3993 |
| 85° | 1826 | 3313 | 3313 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 160.1   | 1.5       |
| 10°-20°   | 459.4   | 4.2       |
| 20°-30°   | 695.7   | 6.3       |
| 30°-40°   | 834.0   | 7.6       |
| 40°-50°   | 850.4   | 7.7       |
| 50°-60°   | 742.3   | 6.7       |
| 60°-70°   | 531.4   | 4.8       |
| 70°-80°   | 273.7   | 2.5       |
| 80°-90°   | 71.3    | 0.6       |
| 90°-100°  | 460.7   | 4.2       |
| 100°-110° | 1271.9  | 11.6      |
| 110°-120° | 1311.7  | 11.9      |
| 120°-130° | 1054.1  | 9.6       |
| 130°-140° | 828.4   | 7.5       |
| 140°-150° | 635.3   | 5.8       |
| 150°-160° | 456.6   | 4.1       |
| 160°-170° | 279.2   | 2.5       |
| 170°-180° | 94.1    | 0.9       |
| 0°-30°    | 1315.1  | 11.9      |
| 0°-40°    | 2149.1  | 19.5      |
| 0°-60°    | 3741.9  | 34.0      |
| 0°-90°    | 4618.3  | 41.9      |
| 90°-120°  | 3044.3  | 27.6      |
| 90°-150°  | 5562.0  | 50.5      |
| 90°-180°  | 6392.0  | 58.1      |
| 0°-180°   | 11010.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1691 | 1691  | 1691 | 1691  | 1691 |      |
| 5°   | 1698 | 1681  | 1687 | 1682  | 1680 | 161  |
| 15°  | 1634 | 1620  | 1634 | 1634  | 1632 | 461  |
| 25°  | 1508 | 1498  | 1519 | 1514  | 1514 | 694  |
| 35°  | 1326 | 1324  | 1347 | 1338  | 1338 | 830  |
| 45°  | 1106 | 1103  | 1114 | 1099  | 1096 | 851  |
| 55°  | 846  | 835   | 835  | 822   | 822  | 754  |
| 65°  | 548  | 536   | 537  | 532   | 532  | 542  |
| 75°  | 236  | 247   | 262  | 263   | 263  | 256  |
| 85°  | 34   | 53    | 63   | 64    | 63   | 47   |
| 90°  | 3    | 6     | 13   | 14    | 16   | 6    |
| 95°  | 68   | 249   | 836  | 344   | 224  | 72   |
| 105° | 227  | 350   | 1399 | 2136  | 2012 | 241  |
| 115° | 406  | 491   | 1127 | 2231  | 2537 | 399  |
| 125° | 557  | 634   | 1022 | 1729  | 2029 | 496  |
| 135° | 670  | 743   | 993  | 1400  | 1579 | 519  |
| 145° | 778  | 831   | 981  | 1192  | 1283 | 487  |
| 155° | 877  | 906   | 973  | 1070  | 1103 | 404  |
| 165° | 949  | 962   | 978  | 1015  | 1023 | 268  |
| 175° | 984  | 985   | 979  | 993   | 990  | 93   |
| 180° | 984  | 984   | 984  | 984   | 984  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1691.4 | 1691.4 | 1691.4 | 1691.4 | 1691.4 |
| 2.5°   | 1701.5 | 1686.8 | 1691.4 | 1687.5 | 1681.4 |
| 5°     | 1697.7 | 1680.9 | 1686.7 | 1682.0 | 1680.5 |
| 7.5°   | 1685.5 | 1668.6 | 1676.4 | 1673.2 | 1671.7 |
| 10°    | 1674.2 | 1657.4 | 1666.4 | 1663.2 | 1661.7 |
| 12.5°  | 1659.2 | 1643.6 | 1653.8 | 1650.7 | 1650.4 |
| 15°    | 1633.5 | 1619.7 | 1633.5 | 1633.5 | 1631.9 |
| 17.5°  | 1601.2 | 1588.7 | 1603.4 | 1604.3 | 1603.4 |
| 20°    | 1578.7 | 1564.9 | 1583.4 | 1581.8 | 1583.4 |
| 22.5°  | 1551.1 | 1539.8 | 1559.6 | 1555.5 | 1557.1 |
| 25°    | 1508.2 | 1497.5 | 1519.2 | 1514.5 | 1514.5 |
| 27.5°  | 1457.5 | 1449.8 | 1473.4 | 1468.4 | 1468.4 |
| 30°    | 1423.6 | 1416.0 | 1440.9 | 1434.6 | 1434.6 |
| 32.5°  | 1386.0 | 1380.8 | 1404.5 | 1397.0 | 1397.0 |
| 35°    | 1326.5 | 1323.5 | 1346.9 | 1337.5 | 1337.5 |
| 37.5°  | 1265.1 | 1262.4 | 1283.6 | 1272.3 | 1268.6 |
| 40°    | 1220.0 | 1218.5 | 1237.3 | 1224.7 | 1224.7 |
| 42.5°  | 1174.9 | 1173.4 | 1189.6 | 1174.6 | 1174.6 |
| 45°    | 1105.7 | 1102.6 | 1113.5 | 1099.4 | 1096.3 |
| 47.5°  | 1030.2 | 1027.1 | 1034.0 | 1018.6 | 1017.1 |
| 50°    | 978.8  | 975.8  | 978.8  | 964.7  | 963.2  |
| 52.5°  | 926.2  | 920.7  | 921.2  | 907.1  | 906.8  |
| 55°    | 845.7  | 835.0  | 834.8  | 822.2  | 822.2  |
| 57.5°  | 760.5  | 746.4  | 747.7  | 737.0  | 735.5  |
| 60°    | 701.6  | 686.3  | 687.5  | 678.1  | 676.6  |
| 62.5°  | 644.0  | 626.2  | 629.9  | 619.2  | 618.9  |
| 65°    | 548.2  | 535.9  | 537.2  | 532.5  | 532.5  |
| 67.5°  | 456.1  | 444.7  | 452.9  | 449.2  | 448.9  |
| 70°    | 388.4  | 380.7  | 391.5  | 391.5  | 390.0  |
| 72.5°  | 325.8  | 325.5  | 338.9  | 338.9  | 339.9  |
| 75°    | 236.5  | 247.2  | 261.5  | 263.1  | 263.1  |
| 77.5°  | 157.9  | 176.9  | 192.6  | 193.3  | 192.9  |
| 80°    | 112.8  | 134.2  | 148.8  | 151.9  | 150.3  |
| 82.5°  | 76.4   | 99.1   | 111.2  | 114.3  | 112.8  |
| 85°    | 34.5   | 52.8   | 62.6   | 64.2   | 62.6   |
| 87.5°  | 10.7   | 22.3   | 27.6   | 27.8   | 25.7   |
| 90°    | 3.1    | 6.2    | 12.6   | 14.2   | 15.7   |
| 92.5°  | 28.3   | 117.6  | 210.3  | 76.7   | 59.8   |
| 95°    | 67.7   | 249.3  | 835.8  | 343.6  | 223.5  |
| 97.5°  | 112.1  | 279.2  | 1238.1 | 953.2  | 690.4  |
| 100°   | 144.8  | 297.2  | 1386.7 | 1396.5 | 1134.9 |
| 102.5° | 176.3  | 317.6  | 1415.7 | 1725.5 | 1477.4 |
| 105°   | 226.7  | 349.8  | 1399.3 | 2136.3 | 2011.6 |
| 107.5° | 280.2  | 389.8  | 1321.2 | 2334.4 | 2379.9 |
| 110°   | 318.0  | 416.5  | 1260.8 | 2377.0 | 2524.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°    | 67.5°  | 90°    |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 352.0 | 446.8 | 1204.1 | 2343.3 | 2561.3 |
| 115°   | 406.1 | 490.7 | 1127.0 | 2231.1 | 2537.3 |
| 117.5° | 453.3 | 537.7 | 1076.3 | 2073.0 | 2421.5 |
| 120°   | 484.8 | 567.9 | 1056.2 | 1966.1 | 2317.0 |
| 122.5° | 515.0 | 594.4 | 1039.8 | 1866.2 | 2198.6 |
| 125°   | 557.2 | 634.2 | 1021.5 | 1728.8 | 2028.9 |
| 127.5° | 593.1 | 670.0 | 1010.8 | 1612.7 | 1871.5 |
| 130°   | 617.0 | 694.0 | 1005.8 | 1541.6 | 1777.1 |
| 132.5° | 639.7 | 712.9 | 1000.8 | 1481.9 | 1695.2 |
| 135°   | 670.5 | 742.9 | 993.2  | 1400.2 | 1578.8 |
| 137.5° | 705.2 | 771.0 | 989.4  | 1331.6 | 1484.0 |
| 140°   | 724.1 | 788.7 | 986.9  | 1285.9 | 1419.8 |
| 142.5° | 745.5 | 805.2 | 984.4  | 1245.2 | 1363.1 |
| 145°   | 777.6 | 831.4 | 980.6  | 1192.0 | 1282.8 |
| 147.5° | 808.4 | 855.5 | 977.2  | 1147.2 | 1217.7 |
| 150°   | 831.1 | 869.6 | 975.9  | 1120.4 | 1177.4 |
| 152.5° | 848.7 | 884.7 | 974.6  | 1097.5 | 1144.6 |
| 155°   | 876.7 | 906.0 | 972.7  | 1069.5 | 1103.4 |
| 157.5° | 902.5 | 925.0 | 973.1  | 1049.1 | 1072.2 |
| 160°   | 917.7 | 937.7 | 974.3  | 1037.7 | 1054.6 |
| 162.5° | 930.3 | 947.8 | 975.6  | 1027.5 | 1040.7 |
| 165°   | 949.1 | 961.5 | 977.5  | 1015.4 | 1023.1 |
| 167.5° | 963.6 | 971.0 | 979.0  | 1008.1 | 1010.5 |
| 170°   | 971.2 | 977.3 | 979.0  | 1004.2 | 1004.2 |
| 172.5° | 977.5 | 981.2 | 979.0  | 999.2  | 997.9  |
| 175°   | 983.8 | 985.3 | 979.0  | 993.1  | 990.1  |
| 177.5° | 986.3 | 985.1 | 978.7  | 987.5  | 985.0  |
| 180°   | 983.8 | 983.8 | 983.8  | 983.8  | 983.8  |

(END OF REPORT)