

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845057

Luminaire Tested: **SQ4P-PC3-150U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845057  
REPORT IS A COMBINATION OF REPORTS P700142 AND P700248  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-150U-125D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

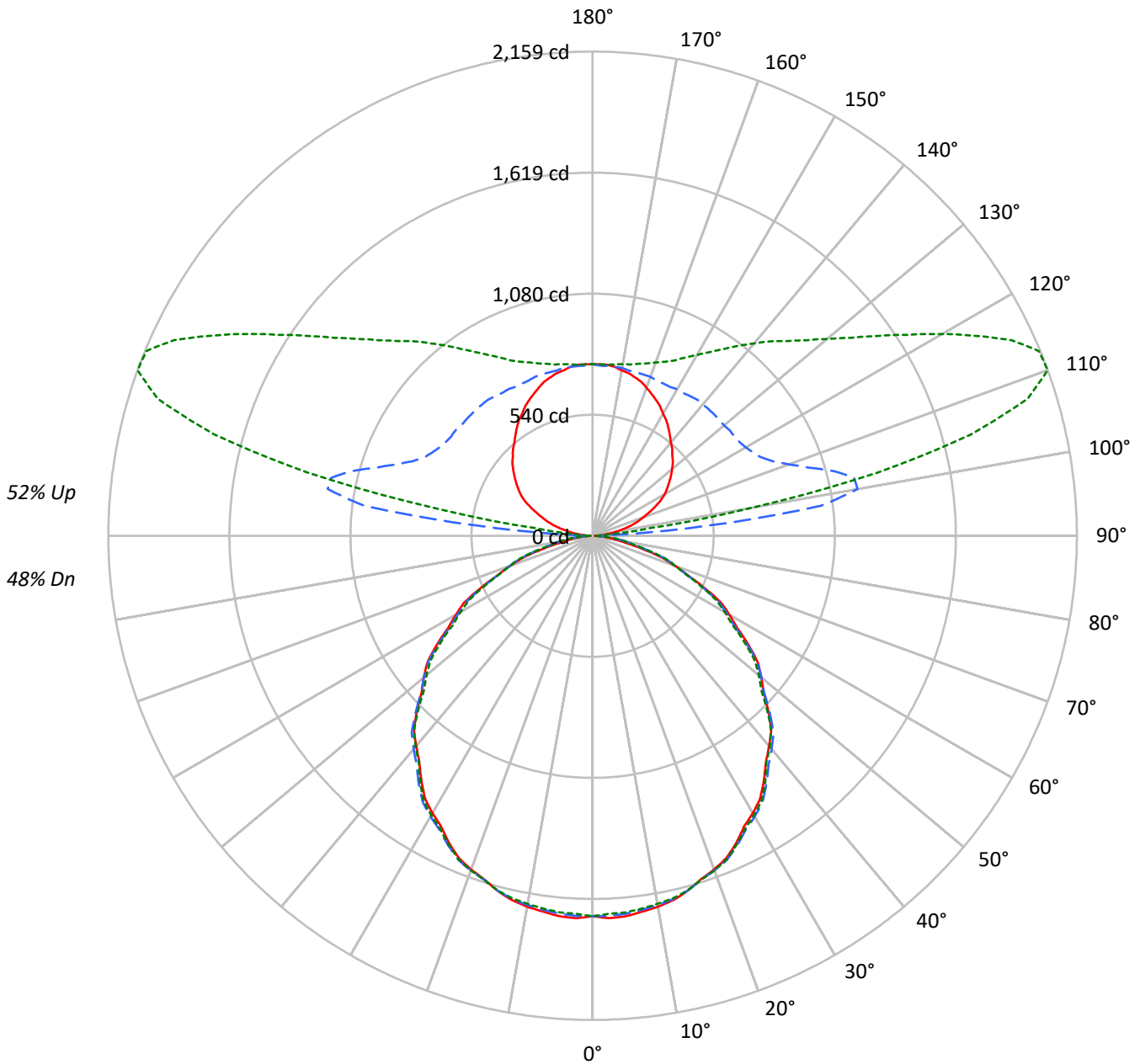
Lumens per Lamp: N/A  
Luminaire Lumens: 9599.3 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 55 | 55 | 55 | 48 |
| 1   | 97  | 93  | 89  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 | 41 |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 53 | 50 | 47 | 42 | 41 | 39 | 34 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 52 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |
| 6   | 62  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 |
| 8   | 54  | 41  | 33  | 28  | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 |
| 10  | 47  | 34  | 27  | 22  | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 24 | 19 | 16 | 20 | 16 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15652 | 15652 | 15652 |
| 5°  | 15773 | 15669 | 15612 |
| 10° | 15734 | 15661 | 15615 |
| 15° | 15651 | 15651 | 15635 |
| 20° | 15548 | 15593 | 15593 |
| 25° | 15402 | 15512 | 15465 |
| 30° | 15212 | 15396 | 15330 |
| 35° | 14989 | 15216 | 15109 |
| 40° | 14738 | 14948 | 14797 |
| 45° | 14473 | 14574 | 14349 |
| 50° | 14094 | 14094 | 13868 |
| 55° | 13647 | 13470 | 13267 |
| 60° | 12987 | 12727 | 12522 |
| 65° | 12003 | 11765 | 11658 |
| 70° | 10512 | 10593 | 10556 |
| 75° | 8456  | 9357  | 9411  |
| 80° | 6014  | 7927  | 8012  |
| 85° | 3663  | 6648  | 6648  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.6  | 1.7       |
| 10°-20°   | 460.8  | 4.8       |
| 20°-30°   | 697.8  | 7.3       |
| 30°-40°   | 836.6  | 8.7       |
| 40°-50°   | 853.0  | 8.9       |
| 50°-60°   | 744.6  | 7.8       |
| 60°-70°   | 533.1  | 5.6       |
| 70°-80°   | 274.6  | 2.9       |
| 80°-90°   | 71.3   | 0.7       |
| 90°-100°  | 304.6  | 3.2       |
| 100°-110° | 1059.8 | 11.0      |
| 110°-120° | 1026.6 | 10.7      |
| 120°-130° | 805.3  | 8.4       |
| 130°-140° | 637.4  | 6.6       |
| 140°-150° | 491.9  | 5.1       |
| 150°-160° | 352.6  | 3.7       |
| 160°-170° | 215.7  | 2.2       |
| 170°-180° | 73.0   | 0.8       |
| 0°-30°    | 1319.2 | 13.7      |
| 0°-40°    | 2155.8 | 22.5      |
| 0°-60°    | 3753.4 | 39.1      |
| 0°-90°    | 4632.4 | 48.3      |
| 90°-120°  | 2391.0 | 24.9      |
| 90°-150°  | 4325.6 | 45.1      |
| 90°-180°  | 4967.0 | 51.7      |
| 0°-180°   | 9599.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1696 | 1696  | 1696 | 1696  | 1696 |      |
| 5°   | 1703 | 1686  | 1692 | 1687  | 1686 | 162  |
| 15°  | 1639 | 1625  | 1639 | 1639  | 1637 | 462  |
| 25°  | 1513 | 1502  | 1524 | 1519  | 1519 | 696  |
| 35°  | 1331 | 1327  | 1351 | 1342  | 1342 | 832  |
| 45°  | 1109 | 1106  | 1117 | 1103  | 1100 | 854  |
| 55°  | 848  | 838   | 837  | 825   | 825  | 756  |
| 65°  | 550  | 538   | 539  | 534   | 534  | 544  |
| 75°  | 237  | 248   | 262  | 264   | 264  | 256  |
| 85°  | 35   | 53    | 63   | 64    | 63   | 47   |
| 90°  | 11   | 17    | 17   | 11    | 6    | 8    |
| 95°  | 51   | 177   | 514  | 131   | 80   | 54   |
| 105° | 177  | 251   | 1114 | 1879  | 1748 | 186  |
| 115° | 308  | 371   | 828  | 1748  | 2062 | 305  |
| 125° | 417  | 514   | 771  | 1302  | 1554 | 373  |
| 135° | 503  | 565   | 765  | 1085  | 1228 | 390  |
| 145° | 588  | 628   | 760  | 937   | 1017 | 368  |
| 155° | 668  | 691   | 748  | 834   | 862  | 308  |
| 165° | 731  | 737   | 754  | 788   | 794  | 206  |
| 175° | 765  | 765   | 760  | 771   | 765  | 72   |
| 180° | 765  | 765   | 765  | 765   | 765  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1696.5 | 1696.5 | 1696.5 | 1696.5 | 1696.5 |
| 2.5°   | 1706.8 | 1691.9 | 1696.5 | 1692.7 | 1686.6 |
| 5°     | 1703.1 | 1686.0 | 1691.9 | 1687.0 | 1685.7 |
| 7.5°   | 1690.6 | 1673.8 | 1681.7 | 1678.4 | 1676.8 |
| 10°    | 1679.5 | 1662.4 | 1671.7 | 1668.4 | 1666.8 |
| 12.5°  | 1664.3 | 1648.6 | 1659.0 | 1655.9 | 1655.4 |
| 15°    | 1638.6 | 1624.8 | 1638.6 | 1638.6 | 1636.9 |
| 17.5°  | 1606.1 | 1593.7 | 1608.3 | 1609.3 | 1608.3 |
| 20°    | 1583.6 | 1569.8 | 1588.2 | 1586.6 | 1588.2 |
| 22.5°  | 1556.0 | 1544.7 | 1564.4 | 1560.3 | 1562.0 |
| 25°    | 1513.0 | 1502.1 | 1523.8 | 1519.2 | 1519.2 |
| 27.5°  | 1462.1 | 1454.1 | 1478.0 | 1472.8 | 1472.8 |
| 30°    | 1427.9 | 1420.4 | 1445.2 | 1439.0 | 1439.0 |
| 32.5°  | 1390.2 | 1385.2 | 1408.9 | 1401.4 | 1401.4 |
| 35°    | 1330.8 | 1327.4 | 1351.0 | 1341.5 | 1341.5 |
| 37.5°  | 1269.0 | 1266.3 | 1287.7 | 1276.2 | 1272.5 |
| 40°    | 1223.7 | 1222.4 | 1241.1 | 1228.6 | 1228.6 |
| 42.5°  | 1178.5 | 1176.9 | 1193.5 | 1178.3 | 1178.3 |
| 45°    | 1109.2 | 1106.0 | 1117.0 | 1102.6 | 1099.7 |
| 47.5°  | 1033.4 | 1030.4 | 1037.2 | 1021.7 | 1020.1 |
| 50°    | 981.9  | 978.7  | 981.9  | 967.6  | 966.2  |
| 52.5°  | 929.1  | 923.5  | 924.0  | 909.9  | 909.6  |
| 55°    | 848.4  | 837.6  | 837.4  | 824.8  | 824.8  |
| 57.5°  | 762.8  | 748.8  | 750.1  | 739.3  | 737.6  |
| 60°    | 703.8  | 688.3  | 689.7  | 680.2  | 678.6  |
| 62.5°  | 645.9  | 628.2  | 631.8  | 621.2  | 620.9  |
| 65°    | 549.8  | 537.5  | 538.9  | 534.0  | 534.0  |
| 67.5°  | 457.4  | 446.0  | 454.4  | 450.6  | 450.3  |
| 70°    | 389.7  | 381.8  | 392.7  | 392.7  | 391.3  |
| 72.5°  | 326.8  | 326.5  | 339.9  | 339.9  | 340.9  |
| 75°    | 237.2  | 248.1  | 262.5  | 264.0  | 264.0  |
| 77.5°  | 158.4  | 177.4  | 193.4  | 193.9  | 193.7  |
| 80°    | 113.2  | 134.6  | 149.2  | 152.5  | 150.8  |
| 82.5°  | 76.6   | 99.4   | 111.6  | 114.6  | 113.2  |
| 85°    | 34.6   | 53.0   | 62.8   | 64.5   | 62.8   |
| 87.5°  | 10.0   | 21.1   | 25.1   | 25.1   | 22.7   |
| 90°    | 11.4   | 17.1   | 17.1   | 11.4   | 5.7    |
| 92.5°  | 28.6   | 85.6   | 79.9   | 34.2   | 28.6   |
| 95°    | 51.4   | 177.0  | 514.0  | 131.3  | 79.9   |
| 97.5°  | 79.9   | 199.9  | 1028.1 | 468.3  | 251.3  |
| 100°   | 108.5  | 211.3  | 1199.4 | 1125.2 | 725.3  |
| 102.5° | 142.8  | 228.5  | 1193.7 | 1582.0 | 1302.2 |
| 105°   | 177.0  | 251.3  | 1113.7 | 1879.0 | 1747.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 274.1 | 337.0 | 868.1 | 1890.5 | 2153.1 |
| 115°   | 308.4 | 371.3 | 828.2 | 1747.7 | 2061.8 |
| 117.5° | 342.7 | 411.2 | 805.3 | 1616.3 | 1930.4 |
| 120°   | 371.3 | 445.4 | 788.1 | 1490.6 | 1799.1 |
| 122.5° | 394.1 | 479.8 | 776.8 | 1387.9 | 1667.7 |
| 125°   | 417.0 | 514.0 | 771.0 | 1302.2 | 1553.5 |
| 127.5° | 439.8 | 536.8 | 771.0 | 1239.4 | 1450.7 |
| 130°   | 462.7 | 548.3 | 765.3 | 1176.5 | 1365.0 |
| 132.5° | 485.5 | 554.0 | 765.3 | 1130.8 | 1290.7 |
| 135°   | 502.6 | 565.4 | 765.3 | 1085.1 | 1227.9 |
| 137.5° | 525.5 | 576.9 | 765.3 | 1045.2 | 1176.5 |
| 140°   | 542.6 | 594.0 | 765.3 | 1005.2 | 1119.4 |
| 142.5° | 565.4 | 611.1 | 765.3 | 965.3  | 1068.0 |
| 145°   | 588.3 | 628.2 | 759.6 | 936.7  | 1016.6 |
| 147.5° | 611.1 | 645.4 | 753.9 | 908.1  | 970.9  |
| 150°   | 628.2 | 662.5 | 753.9 | 879.5  | 930.9  |
| 152.5° | 651.1 | 679.6 | 748.2 | 851.0  | 896.7  |
| 155°   | 668.3 | 691.1 | 748.2 | 833.8  | 862.4  |
| 157.5° | 685.4 | 708.2 | 748.2 | 816.7  | 839.6  |
| 160°   | 702.5 | 719.6 | 753.9 | 805.3  | 822.4  |
| 162.5° | 719.6 | 731.1 | 753.9 | 793.9  | 805.3  |
| 165°   | 731.1 | 736.8 | 753.9 | 788.1  | 793.9  |
| 167.5° | 742.4 | 748.2 | 753.9 | 782.5  | 782.5  |
| 170°   | 748.2 | 753.9 | 759.6 | 776.8  | 776.8  |
| 172.5° | 759.6 | 759.6 | 759.6 | 771.0  | 771.0  |
| 175°   | 765.3 | 765.3 | 759.6 | 771.0  | 765.3  |
| 177.5° | 765.3 | 765.3 | 759.6 | 771.0  | 765.3  |
| 180°   | 765.3 | 765.3 | 765.3 | 765.3  | 765.3  |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







|        |       |       |        |        |        |
|--------|-------|-------|--------|--------|--------|
| 107.5° | 211.3 | 279.9 | 1011.0 | 2010.4 | 2033.3 |
| 110°   | 239.8 | 308.4 | 930.9  | 1993.2 | 2158.9 |



(END OF REPORT)