

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: P562069

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562069  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

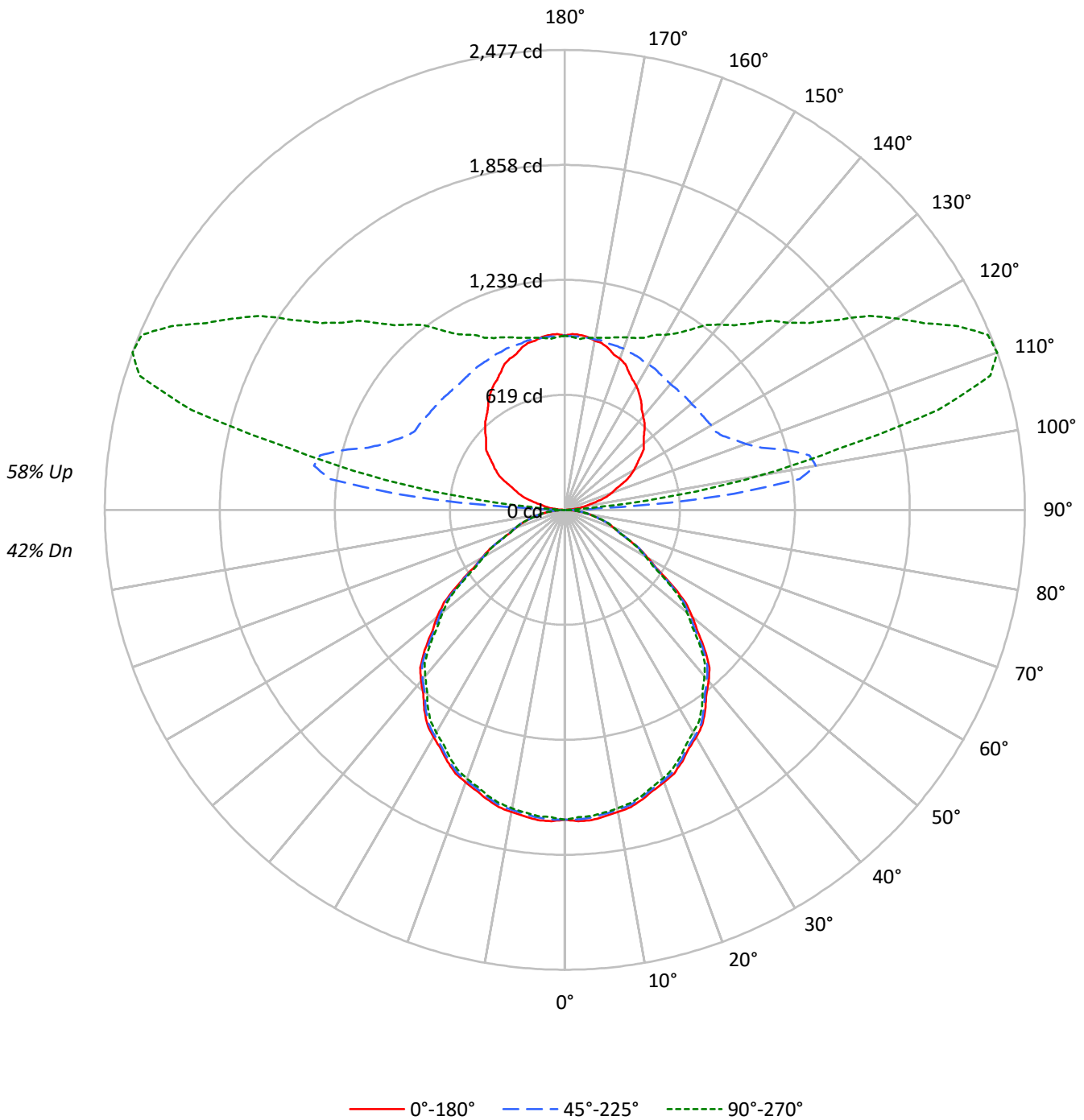
Lumens per Lamp: N/A  
Luminaire Lumens: 9998.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 83.7  
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  | 88 | 84 | 81 | 78 | 69 | 67 | 65 | 56 | 54 | 53 | 43 | 42 | 41 | 36 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 64 | 61 | 57 | 54 | 49 | 47 | 45 | 38 | 37 | 35 | 30 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 34 | 32 | 30 | 26 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 39 | 35 | 33 | 31 | 28 | 26 | 22 |
| 5   | 67  | 56  | 48  | 42  | 61 | 52 | 45 | 39 | 43 | 38 | 34 | 35 | 31 | 28 | 28 | 25 | 23 | 20 |
| 6   | 62  | 50  | 42  | 37  | 56 | 46 | 39 | 34 | 39 | 33 | 30 | 32 | 28 | 25 | 25 | 22 | 20 | 17 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 26 | 22 | 20 | 21 | 18 | 16 | 14 |
| 9   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 19 | 17 | 15 | 12 |
| 10  | 46  | 34  | 27  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 22 | 19 | 16 | 18 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15393 | 15393 | 15393 |
| 5°  | 15532 | 15412 | 15332 |
| 10° | 15482 | 15375 | 15294 |
| 15° | 15414 | 15319 | 15236 |
| 20° | 15337 | 15238 | 15125 |
| 25° | 15229 | 15126 | 14951 |
| 30° | 15065 | 14958 | 14743 |
| 35° | 14843 | 14713 | 14502 |
| 40° | 14505 | 14348 | 14089 |
| 45° | 13913 | 13669 | 13388 |
| 50° | 12871 | 12562 | 12314 |
| 55° | 11234 | 10980 | 10748 |
| 60° | 9466  | 9387  | 9202  |
| 65° | 8189  | 8219  | 8156  |
| 70° | 7521  | 7559  | 7559  |
| 75° | 7222  | 7222  | 7276  |
| 80° | 6796  | 6870  | 6796  |
| 85° | 5473  | 6087  | 6087  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.8  | 1.6       |
| 10°-20°   | 451.4  | 4.5       |
| 20°-30°   | 680.9  | 6.8       |
| 30°-40°   | 811.3  | 8.1       |
| 40°-50°   | 799.8  | 8.0       |
| 50°-60°   | 611.3  | 6.1       |
| 60°-70°   | 378.3  | 3.8       |
| 70°-80°   | 214.8  | 2.1       |
| 80°-90°   | 65.3   | 0.7       |
| 90°-100°  | 427.5  | 4.3       |
| 100°-110° | 1216.3 | 12.2      |
| 110°-120° | 1165.4 | 11.7      |
| 120°-130° | 922.3  | 9.2       |
| 130°-140° | 740.3  | 7.4       |
| 140°-150° | 579.6  | 5.8       |
| 150°-160° | 424.1  | 4.2       |
| 160°-170° | 262.7  | 2.6       |
| 170°-180° | 89.1   | 0.9       |
| 0°-30°    | 1290.0 | 12.9      |
| 0°-40°    | 2101.3 | 21.0      |
| 0°-60°    | 3512.4 | 35.1      |
| 0°-90°    | 4170.9 | 41.7      |
| 90°-120°  | 2809.1 | 28.1      |
| 90°-150°  | 5051.4 | 50.5      |
| 90°-180°  | 5827.0 | 58.3      |
| 0°-180°   | 9998.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1668 | 1668  | 1668 | 1668  | 1668 |      |
| 5°   | 1677 | 1659  | 1664 | 1658  | 1656 | 159  |
| 15°  | 1614 | 1597  | 1604 | 1598  | 1595 | 455  |
| 25°  | 1496 | 1478  | 1486 | 1470  | 1469 | 688  |
| 35°  | 1318 | 1302  | 1306 | 1289  | 1288 | 822  |
| 45°  | 1066 | 1052  | 1048 | 1029  | 1026 | 817  |
| 55°  | 698  | 687   | 683  | 671   | 668  | 626  |
| 65°  | 375  | 372   | 376  | 374   | 374  | 380  |
| 75°  | 203  | 203   | 203  | 204   | 204  | 214  |
| 85°  | 52   | 54    | 58   | 58    | 58   | 60   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 4    |
| 95°  | 46   | 184   | 828  | 286   | 177  | 53   |
| 105° | 189  | 287   | 1240 | 2189  | 2081 | 200  |
| 115° | 351  | 425   | 940  | 1991  | 2338 | 346  |
| 125° | 496  | 550   | 897  | 1489  | 1780 | 444  |
| 135° | 606  | 657   | 886  | 1258  | 1421 | 468  |
| 145° | 715  | 752   | 894  | 1088  | 1186 | 447  |
| 155° | 817  | 836   | 915  | 984   | 1024 | 378  |
| 165° | 902  | 906   | 926  | 946   | 960  | 254  |
| 175° | 945  | 940   | 936  | 931   | 924  | 90   |
| 180° | 938  | 938   | 938  | 938   | 938  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1668.4 | 1668.4 | 1668.4 | 1668.4 | 1668.4 |
| 2.5°   | 1678.8 | 1664.2 | 1668.4 | 1664.8 | 1656.9 |
| 5°     | 1677.1 | 1658.8 | 1664.1 | 1658.3 | 1655.5 |
| 7.5°   | 1664.1 | 1646.1 | 1651.5 | 1645.7 | 1644.0 |
| 10°    | 1652.6 | 1635.8 | 1641.1 | 1635.3 | 1632.5 |
| 12.5°  | 1640.0 | 1622.0 | 1628.5 | 1621.5 | 1618.7 |
| 15°    | 1613.8 | 1597.0 | 1603.8 | 1597.9 | 1595.1 |
| 17.5°  | 1585.1 | 1567.1 | 1573.9 | 1567.2 | 1563.5 |
| 20°    | 1562.1 | 1545.2 | 1552.0 | 1541.9 | 1540.5 |
| 22.5°  | 1536.8 | 1519.9 | 1526.7 | 1513.2 | 1512.9 |
| 25°    | 1496.0 | 1477.7 | 1485.9 | 1470.1 | 1468.7 |
| 27.5°  | 1447.4 | 1430.5 | 1437.3 | 1421.2 | 1419.5 |
| 30°    | 1414.1 | 1397.2 | 1404.0 | 1386.7 | 1383.9 |
| 32.5°  | 1376.1 | 1360.4 | 1366.1 | 1348.8 | 1347.1 |
| 35°    | 1317.8 | 1302.3 | 1306.3 | 1289.0 | 1287.6 |
| 37.5°  | 1251.4 | 1237.3 | 1239.6 | 1220.6 | 1219.2 |
| 40°    | 1204.3 | 1190.2 | 1191.3 | 1171.2 | 1169.8 |
| 42.5°  | 1152.5 | 1138.5 | 1137.3 | 1117.1 | 1115.7 |
| 45°    | 1066.3 | 1052.2 | 1047.6 | 1028.9 | 1026.1 |
| 47.5°  | 968.0  | 954.0  | 945.3  | 930.0  | 928.1  |
| 50°    | 896.7  | 882.7  | 875.2  | 862.1  | 857.9  |
| 52.5°  | 819.7  | 805.6  | 799.3  | 787.4  | 783.2  |
| 55°    | 698.4  | 687.2  | 682.6  | 671.0  | 668.2  |
| 57.5°  | 583.2  | 575.6  | 574.2  | 563.0  | 561.9  |
| 60°    | 513.0  | 508.8  | 508.7  | 498.7  | 498.7  |
| 62.5°  | 453.2  | 450.2  | 452.4  | 445.8  | 444.6  |
| 65°    | 375.1  | 372.3  | 376.5  | 373.6  | 373.6  |
| 67.5°  | 313.3  | 313.3  | 315.9  | 314.7  | 314.7  |
| 70°    | 278.8  | 278.8  | 280.2  | 280.2  | 280.2  |
| 72.5°  | 247.7  | 246.6  | 250.3  | 250.3  | 249.2  |
| 75°    | 202.6  | 202.6  | 202.6  | 204.1  | 204.1  |
| 77.5°  | 157.8  | 158.1  | 159.2  | 158.9  | 157.8  |
| 80°    | 127.9  | 129.3  | 129.3  | 127.9  | 127.9  |
| 82.5°  | 98.0   | 99.4   | 99.4   | 99.1   | 98.0   |
| 85°    | 51.7   | 54.5   | 57.5   | 57.5   | 57.5   |
| 87.5°  | 14.9   | 19.4   | 23.0   | 23.0   | 21.8   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 14.3   | 75.7   | 175.5  | 51.1   | 38.5   |
| 95°    | 46.4   | 184.1  | 827.5  | 286.4  | 176.6  |
| 97.5°  | 85.2   | 215.7  | 1274.5 | 912.0  | 624.9  |
| 100°   | 112.4  | 234.4  | 1371.5 | 1389.2 | 1070.1 |
| 102.5° | 142.3  | 254.6  | 1350.1 | 1778.2 | 1499.5 |
| 105°   | 189.0  | 286.7  | 1239.5 | 2189.4 | 2081.3 |
| 107.5° | 236.5  | 324.0  | 1110.4 | 2305.4 | 2401.6 |
| 110°   | 269.3  | 351.3  | 1036.2 | 2261.0 | 2477.2 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 300.7 | 378.5 | 986.3 | 2156.1 | 2464.4 |
| 115°   | 351.3 | 424.6 | 939.9 | 1991.1 | 2338.1 |
| 117.5° | 395.9 | 464.6 | 912.4 | 1810.7 | 2178.3 |
| 120°   | 431.6 | 489.1 | 909.6 | 1707.7 | 2059.9 |
| 122.5° | 460.1 | 517.7 | 902.4 | 1617.2 | 1944.3 |
| 125°   | 495.8 | 549.9 | 897.1 | 1488.7 | 1779.9 |
| 127.5° | 534.7 | 585.3 | 894.2 | 1411.9 | 1651.8 |
| 130°   | 554.7 | 605.2 | 890.0 | 1358.4 | 1567.7 |
| 132.5° | 576.1 | 625.2 | 890.0 | 1316.7 | 1509.2 |
| 135°   | 606.4 | 657.0 | 886.4 | 1257.5 | 1421.4 |
| 137.5° | 634.9 | 684.1 | 886.0 | 1207.4 | 1349.0 |
| 140°   | 656.3 | 706.9 | 884.6 | 1165.9 | 1301.9 |
| 142.5° | 680.6 | 722.8 | 888.9 | 1132.8 | 1254.8 |
| 145°   | 715.2 | 751.8 | 893.5 | 1088.4 | 1186.0 |
| 147.5° | 744.8 | 780.4 | 901.4 | 1043.5 | 1127.9 |
| 150°   | 770.5 | 794.9 | 904.2 | 1028.6 | 1087.9 |
| 152.5° | 790.4 | 816.2 | 907.1 | 1008.6 | 1063.7 |
| 155°   | 816.8 | 836.0 | 914.9 | 983.6  | 1023.7 |
| 157.5° | 849.6 | 861.2 | 916.7 | 972.3  | 1000.9 |
| 160°   | 866.8 | 875.5 | 923.8 | 963.6  | 988.0  |
| 162.5° | 876.8 | 886.9 | 925.3 | 956.4  | 975.2  |
| 165°   | 902.4 | 905.9 | 925.6 | 945.6  | 959.5  |
| 167.5° | 919.9 | 916.8 | 933.8 | 942.9  | 948.4  |
| 170°   | 925.6 | 923.9 | 931.0 | 932.9  | 939.9  |
| 172.5° | 938.5 | 932.5 | 935.3 | 930.0  | 935.6  |
| 175°   | 945.2 | 940.0 | 936.3 | 930.8  | 923.8  |
| 177.5° | 948.1 | 939.7 | 935.3 | 929.6  | 931.0  |
| 180°   | 938.1 | 938.1 | 938.1 | 938.1  | 938.1  |

(END OF REPORT)