

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: P565031

Luminaire Tested: **SQ4-PW1-125U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565031  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-075D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

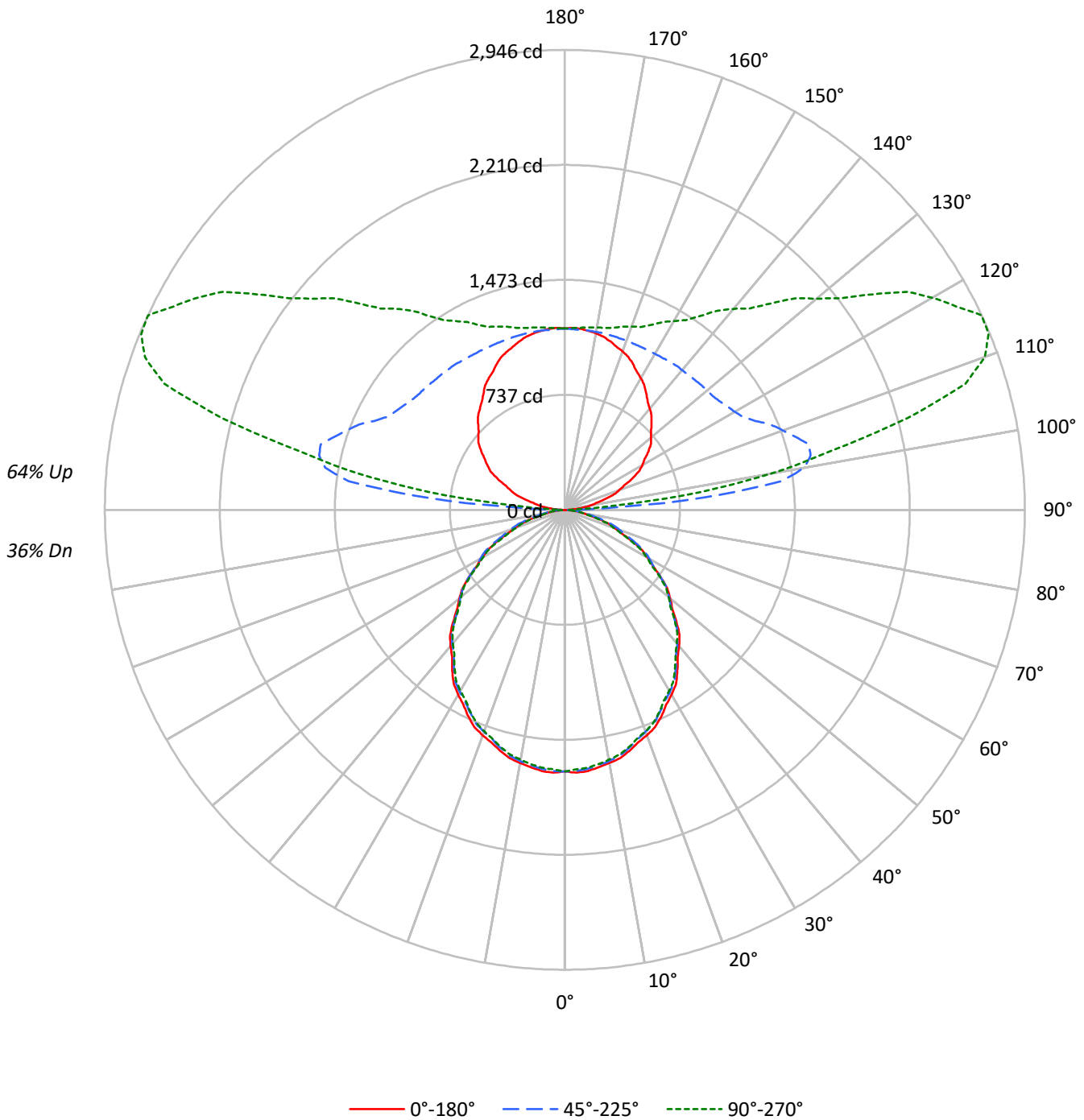
Lumens per Lamp: N/A  
Luminaire Lumens: 11764.3 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 87.9  
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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |    |    |    |   |
| 1   | 95  | 91  | 87  | 83  | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 39 | 38 | 37 | 31 |    |    |    |   |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 32 | 31 | 26 |    |    |    |   |
| 3   | 79  | 70  | 62  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 27 | 22 |    |    |    |   |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |    |    |    |   |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 | 16 |    |    |    |   |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 23 | 22 | 19 | 18 | 14 |    |    |    |   |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 17 | 16 | 13 |    |    |    |   |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 11 |    |    |    |   |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 13 | 10 |    |    |    |   |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9  |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10305 | 10305 | 10305 |
| 5°  | 10372 | 10289 | 10244 |
| 10° | 10289 | 10205 | 10150 |
| 15° | 10180 | 10067 | 10029 |
| 20° | 10058 | 9903  | 9884  |
| 25° | 9917  | 9737  | 9707  |
| 30° | 9708  | 9561  | 9498  |
| 35° | 9432  | 9299  | 9244  |
| 40° | 9138  | 8996  | 8960  |
| 45° | 8782  | 8667  | 8628  |
| 50° | 8419  | 8348  | 8291  |
| 55° | 8026  | 8026  | 7899  |
| 60° | 7536  | 7681  | 7408  |
| 65° | 6896  | 7239  | 6724  |
| 70° | 6079  | 6663  | 5920  |
| 75° | 5193  | 5963  | 5052  |
| 80° | 4027  | 5019  | 4077  |
| 85° | 2604  | 3853  | 3437  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 157.8   | 1.3       |
| 10°-20°   | 445.4   | 3.8       |
| 20°-30°   | 660.7   | 5.6       |
| 30°-40°   | 773.1   | 6.6       |
| 40°-50°   | 769.6   | 6.5       |
| 50°-60°   | 664.6   | 5.6       |
| 60°-70°   | 478.4   | 4.1       |
| 70°-80°   | 250.9   | 2.1       |
| 80°-90°   | 64.9    | 0.6       |
| 90°-100°  | 543.4   | 4.6       |
| 100°-110° | 1463.8  | 12.4      |
| 110°-120° | 1536.2  | 13.1      |
| 120°-130° | 1246.6  | 10.6      |
| 130°-140° | 977.7   | 8.3       |
| 140°-150° | 750.6   | 6.4       |
| 150°-160° | 539.7   | 4.6       |
| 160°-170° | 329.7   | 2.8       |
| 170°-180° | 111.2   | 0.9       |
| 0°-30°    | 1263.9  | 10.7      |
| 0°-40°    | 2036.9  | 17.3      |
| 0°-60°    | 3471.1  | 29.5      |
| 0°-90°    | 4265.3  | 36.3      |
| 90°-120°  | 3543.5  | 30.1      |
| 90°-150°  | 6518.4  | 55.4      |
| 90°-180°  | 7499.0  | 63.7      |
| 0°-180°   | 11764.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1675 | 1675  | 1675 | 1675  | 1675 |      |
| 5°   | 1680 | 1661  | 1666 | 1662  | 1659 | 159  |
| 15°  | 1599 | 1578  | 1581 | 1578  | 1575 | 451  |
| 25°  | 1461 | 1437  | 1435 | 1426  | 1430 | 672  |
| 35°  | 1256 | 1239  | 1238 | 1227  | 1231 | 785  |
| 45°  | 1010 | 1001  | 996  | 993   | 992  | 779  |
| 55°  | 748  | 747   | 748  | 738   | 737  | 668  |
| 65°  | 474  | 488   | 497  | 478   | 462  | 470  |
| 75°  | 218  | 239   | 251  | 234   | 213  | 234  |
| 85°  | 37   | 48    | 55   | 52    | 49   | 49   |
| 90°  | 3    | 9     | 18   | 19    | 19   | 7    |
| 95°  | 83   | 296   | 891  | 456   | 315  | 87   |
| 105° | 271  | 421   | 1619 | 2422  | 2273 | 285  |
| 115° | 478  | 585   | 1348 | 2605  | 2946 | 470  |
| 125° | 653  | 750   | 1210 | 2046  | 2408 | 583  |
| 135° | 786  | 877   | 1176 | 1650  | 1869 | 607  |
| 145° | 909  | 980   | 1162 | 1411  | 1515 | 570  |
| 155° | 1031 | 1069  | 1151 | 1266  | 1307 | 475  |
| 165° | 1119 | 1132  | 1156 | 1202  | 1208 | 315  |
| 175° | 1163 | 1162  | 1157 | 1173  | 1170 | 110  |
| 180° | 1162 | 1162  | 1162 | 1162  | 1162 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1675.4 | 1675.4 | 1675.4 | 1675.4 | 1675.4 |
| 2.5°   | 1684.8 | 1671.0 | 1675.4 | 1671.6 | 1663.6 |
| 5°     | 1679.8 | 1661.0 | 1666.5 | 1662.0 | 1659.1 |
| 7.5°   | 1662.7 | 1645.4 | 1649.4 | 1644.6 | 1642.9 |
| 10°    | 1647.3 | 1630.0 | 1634.0 | 1628.1 | 1625.2 |
| 12.5°  | 1629.6 | 1611.1 | 1615.1 | 1609.2 | 1607.5 |
| 15°    | 1598.6 | 1578.4 | 1580.9 | 1577.9 | 1575.0 |
| 17.5°  | 1562.6 | 1542.1 | 1542.5 | 1537.8 | 1537.2 |
| 20°    | 1536.6 | 1515.0 | 1513.0 | 1507.2 | 1510.0 |
| 22.5°  | 1508.3 | 1485.5 | 1483.5 | 1475.3 | 1479.3 |
| 25°    | 1461.3 | 1436.8 | 1434.8 | 1426.0 | 1430.3 |
| 27.5°  | 1407.0 | 1382.8 | 1382.8 | 1370.5 | 1375.1 |
| 30°    | 1366.9 | 1343.8 | 1346.2 | 1331.6 | 1337.3 |
| 32.5°  | 1324.4 | 1303.6 | 1304.9 | 1290.2 | 1296.0 |
| 35°    | 1256.2 | 1238.8 | 1238.4 | 1226.7 | 1231.1 |
| 37.5°  | 1186.5 | 1171.2 | 1168.8 | 1162.0 | 1163.2 |
| 40°    | 1138.1 | 1125.1 | 1120.4 | 1115.9 | 1115.9 |
| 42.5°  | 1087.3 | 1075.5 | 1070.8 | 1067.5 | 1066.3 |
| 45°    | 1009.6 | 1001.0 | 996.4  | 993.4  | 991.9  |
| 47.5°  | 932.9  | 924.8  | 920.8  | 918.7  | 917.2  |
| 50°    | 879.8  | 874.0  | 872.4  | 867.9  | 866.5  |
| 52.5°  | 826.6  | 823.1  | 821.6  | 816.0  | 814.5  |
| 55°    | 748.4  | 746.9  | 748.4  | 738.0  | 736.6  |
| 57.5°  | 666.9  | 669.2  | 674.0  | 660.0  | 656.6  |
| 60°    | 612.6  | 618.4  | 624.4  | 608.0  | 602.2  |
| 62.5°  | 557.1  | 566.3  | 574.8  | 556.0  | 547.9  |
| 65°    | 473.8  | 488.3  | 497.4  | 477.9  | 462.0  |
| 67.5°  | 393.5  | 411.4  | 422.5  | 401.4  | 383.5  |
| 70°    | 338.0  | 358.2  | 370.5  | 349.4  | 329.2  |
| 72.5°  | 289.6  | 312.1  | 322.1  | 302.1  | 281.9  |
| 75°    | 218.5  | 238.7  | 250.9  | 234.2  | 212.6  |
| 77.5°  | 155.0  | 174.0  | 184.2  | 169.6  | 151.7  |
| 80°    | 113.7  | 133.9  | 141.7  | 129.6  | 115.1  |
| 82.5°  | 80.6   | 97.3   | 102.7  | 95.4   | 85.6   |
| 85°    | 36.9   | 48.4   | 54.6   | 51.6   | 48.7   |
| 87.5°  | 10.0   | 19.3   | 26.0   | 26.3   | 27.5   |
| 90°    | 3.0    | 8.7    | 17.8   | 19.2   | 19.2   |
| 92.5°  | 36.1   | 127.6  | 252.2  | 121.4  | 84.3   |
| 95°    | 82.9   | 295.6  | 890.8  | 455.5  | 315.2  |
| 97.5°  | 132.3  | 338.3  | 1397.2 | 1167.2 | 880.2  |
| 100°   | 170.2  | 355.4  | 1558.2 | 1630.3 | 1352.5 |
| 102.5° | 206.9  | 379.3  | 1611.5 | 1977.1 | 1749.1 |
| 105°   | 270.8  | 421.3  | 1618.9 | 2422.0 | 2272.9 |
| 107.5° | 331.2  | 465.4  | 1549.9 | 2650.6 | 2689.1 |
| 110°   | 371.4  | 498.8  | 1487.2 | 2721.5 | 2861.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 414.0  | 532.1  | 1426.8 | 2705.8 | 2936.5 |
| 115°   | 478.0  | 585.0  | 1348.1 | 2604.8 | 2946.2 |
| 117.5° | 536.3  | 636.7  | 1287.1 | 2443.5 | 2823.7 |
| 120°   | 574.2  | 671.1  | 1256.3 | 2327.7 | 2718.4 |
| 122.5° | 607.3  | 703.1  | 1233.8 | 2209.3 | 2598.8 |
| 125°   | 652.6  | 749.5  | 1210.5 | 2045.9 | 2407.6 |
| 127.5° | 696.1  | 791.6  | 1195.7 | 1901.8 | 2224.7 |
| 130°   | 722.1  | 817.6  | 1189.7 | 1819.2 | 2102.8 |
| 132.5° | 748.2  | 842.5  | 1183.8 | 1746.4 | 2006.9 |
| 135°   | 785.8  | 876.9  | 1176.4 | 1650.5 | 1869.0 |
| 137.5° | 821.6  | 909.0  | 1172.6 | 1569.1 | 1748.5 |
| 140°   | 846.4  | 930.4  | 1169.0 | 1519.0 | 1681.0 |
| 142.5° | 872.5  | 950.6  | 1166.7 | 1472.2 | 1608.8 |
| 145°   | 908.6  | 979.5  | 1161.6 | 1411.1 | 1515.3 |
| 147.5° | 947.7  | 1009.3 | 1156.6 | 1359.7 | 1441.6 |
| 150°   | 973.7  | 1027.2 | 1154.2 | 1327.4 | 1395.4 |
| 152.5° | 997.4  | 1044.0 | 1153.0 | 1301.1 | 1356.4 |
| 155°   | 1031.4 | 1069.0 | 1151.3 | 1266.1 | 1306.6 |
| 157.5° | 1061.3 | 1090.5 | 1151.6 | 1241.6 | 1268.8 |
| 160°   | 1080.2 | 1104.8 | 1152.7 | 1227.2 | 1247.5 |
| 162.5° | 1096.8 | 1116.8 | 1153.9 | 1215.2 | 1229.7 |
| 165°   | 1118.7 | 1131.7 | 1155.7 | 1201.7 | 1207.5 |
| 167.5° | 1136.5 | 1144.0 | 1157.2 | 1191.3 | 1193.6 |
| 170°   | 1148.3 | 1151.2 | 1157.2 | 1185.3 | 1185.3 |
| 172.5° | 1155.4 | 1156.0 | 1158.4 | 1179.4 | 1179.4 |
| 175°   | 1163.1 | 1161.7 | 1157.2 | 1173.4 | 1170.5 |
| 177.5° | 1166.4 | 1164.0 | 1158.1 | 1167.5 | 1165.2 |
| 180°   | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |

(END OF REPORT)