

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: P523977

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523977  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

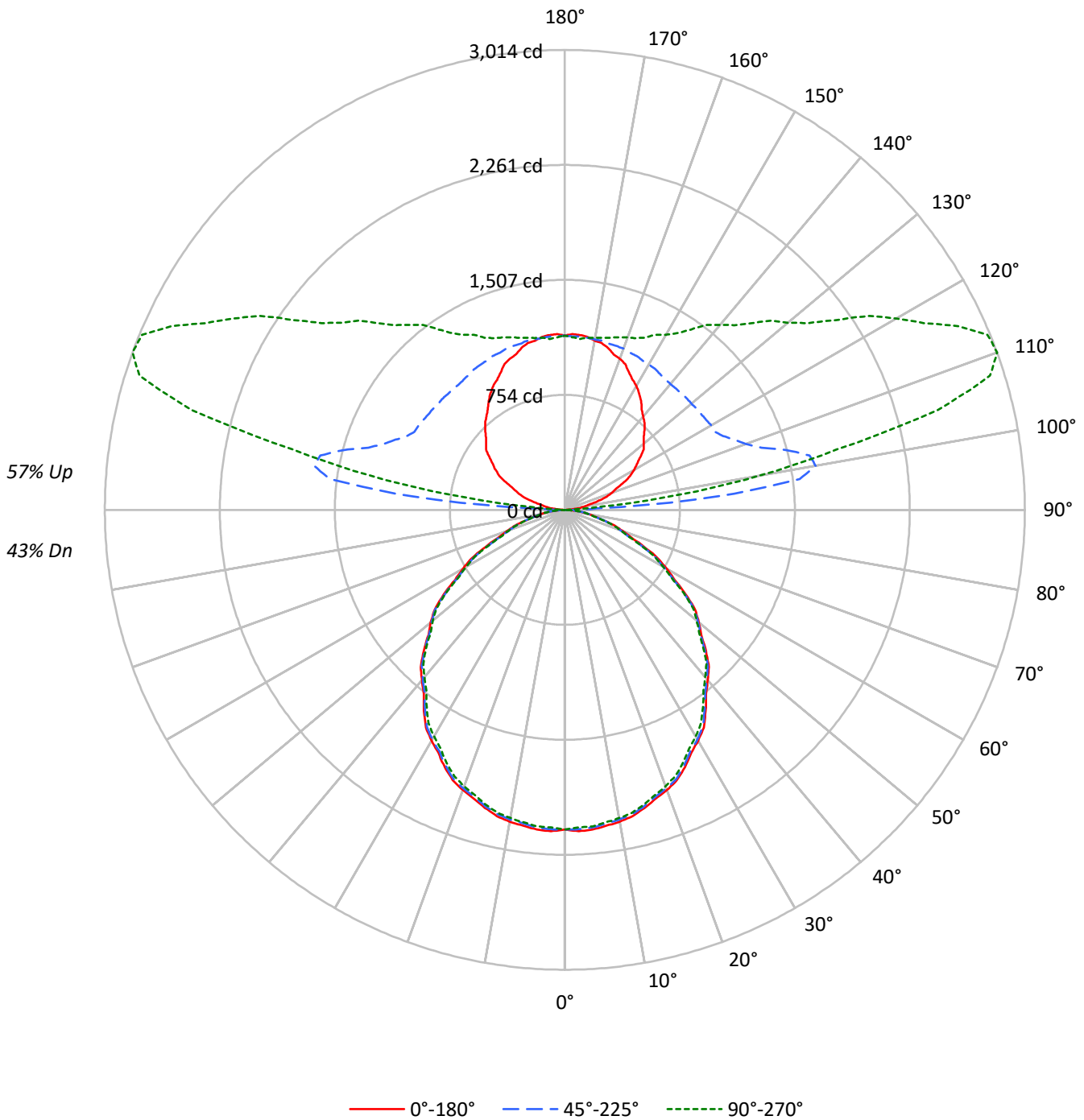
Lumens per Lamp: N/A  
Luminaire Lumens: 12451.7 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.2  
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   | 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°  | 19331 | 19331 | 19331 |
| 5°  | 19472 | 19353 | 19285 |
| 10° | 19440 | 19302 | 19216 |
| 15° | 19311 | 19206 | 19100 |
| 20° | 19183 | 19074 | 18931 |
| 25° | 18955 | 18824 | 18637 |
| 30° | 18604 | 18506 | 18272 |
| 35° | 18117 | 17993 | 17765 |
| 40° | 17537 | 17428 | 17228 |
| 45° | 17059 | 16939 | 16772 |
| 50° | 16446 | 16341 | 16183 |
| 55° | 15595 | 15389 | 15270 |
| 60° | 14197 | 13791 | 13723 |
| 65° | 12507 | 11985 | 11946 |
| 70° | 10798 | 10353 | 10353 |
| 75° | 9293  | 9165  | 9033  |
| 80° | 8193  | 8294  | 8097  |
| 85° | 6415  | 6997  | 6997  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 198.1   | 1.6       |
| 10°-20°   | 565.7   | 4.5       |
| 20°-30°   | 847.3   | 6.8       |
| 30°-40°   | 993.9   | 8.0       |
| 40°-50°   | 997.0   | 8.0       |
| 50°-60°   | 850.5   | 6.8       |
| 60°-70°   | 554.7   | 4.5       |
| 70°-80°   | 278.3   | 2.2       |
| 80°-90°   | 77.0    | 0.6       |
| 90°-100°  | 520.1   | 4.2       |
| 100°-110° | 1479.7  | 11.9      |
| 110°-120° | 1417.7  | 11.4      |
| 120°-130° | 1122.1  | 9.0       |
| 130°-140° | 900.6   | 7.2       |
| 140°-150° | 705.1   | 5.7       |
| 150°-160° | 515.9   | 4.1       |
| 160°-170° | 319.6   | 2.6       |
| 170°-180° | 108.4   | 0.9       |
| 0°-30°    | 1611.1  | 12.9      |
| 0°-40°    | 2605.0  | 20.9      |
| 0°-60°    | 4452.5  | 35.8      |
| 0°-90°    | 5362.4  | 43.1      |
| 90°-120°  | 3417.5  | 27.4      |
| 90°-150°  | 6145.3  | 49.4      |
| 90°-180°  | 7089.0  | 56.9      |
| 0°-180°   | 12451.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2095 | 2095  | 2095 | 2095  | 2095 |      |
| 5°   | 2102 | 2083  | 2090 | 2082  | 2082 | 200  |
| 15°  | 2022 | 2002  | 2011 | 2003  | 2000 | 570  |
| 25°  | 1862 | 1840  | 1849 | 1832  | 1831 | 856  |
| 35°  | 1608 | 1592  | 1598 | 1579  | 1577 | 1005 |
| 45°  | 1307 | 1298  | 1298 | 1285  | 1285 | 1007 |
| 55°  | 970  | 966   | 957  | 951   | 949  | 862  |
| 65°  | 573  | 562   | 549  | 545   | 547  | 572  |
| 75°  | 261  | 261   | 257  | 255   | 253  | 283  |
| 85°  | 61   | 66    | 66   | 66    | 66   | 71   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 5    |
| 95°  | 56   | 224   | 1007 | 348   | 215  | 64   |
| 105° | 230  | 349   | 1508 | 2664  | 2532 | 243  |
| 115° | 427  | 516   | 1143 | 2422  | 2844 | 421  |
| 125° | 603  | 669   | 1091 | 1811  | 2165 | 540  |
| 135° | 738  | 799   | 1078 | 1530  | 1729 | 569  |
| 145° | 870  | 915   | 1087 | 1324  | 1443 | 544  |
| 155° | 994  | 1017  | 1113 | 1197  | 1245 | 459  |
| 165° | 1098 | 1102  | 1126 | 1150  | 1167 | 309  |
| 175° | 1150 | 1144  | 1139 | 1132  | 1124 | 109  |
| 180° | 1141 | 1141  | 1141 | 1141  | 1141 |      |

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CATALOG NUMBER: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2095.2 | 2095.2 | 2095.2 | 2095.2 | 2095.2 |
| 2.5°   | 2108.4 | 2091.1 | 2095.2 | 2092.0 | 2083.4 |
| 5°     | 2102.5 | 2082.7 | 2089.6 | 2082.3 | 2082.3 |
| 7.5°   | 2088.2 | 2066.6 | 2073.5 | 2066.1 | 2065.8 |
| 10°    | 2075.0 | 2053.4 | 2060.3 | 2052.9 | 2051.1 |
| 12.5°  | 2055.9 | 2034.3 | 2042.6 | 2033.8 | 2033.5 |
| 15°    | 2021.7 | 2002.0 | 2010.7 | 2003.3 | 1999.7 |
| 17.5°  | 1983.1 | 1961.6 | 1972.1 | 1961.8 | 1960.4 |
| 20°    | 1953.8 | 1932.2 | 1942.7 | 1928.1 | 1928.1 |
| 22.5°  | 1918.5 | 1897.0 | 1909.0 | 1889.9 | 1889.9 |
| 25°    | 1862.0 | 1840.4 | 1849.1 | 1832.5 | 1830.7 |
| 27.5°  | 1794.7 | 1773.6 | 1782.6 | 1763.9 | 1763.5 |
| 30°    | 1746.3 | 1726.5 | 1737.1 | 1716.8 | 1715.1 |
| 32.5°  | 1693.4 | 1675.1 | 1682.7 | 1662.5 | 1660.7 |
| 35°    | 1608.5 | 1592.4 | 1597.5 | 1579.1 | 1577.3 |
| 37.5°  | 1519.3 | 1502.8 | 1508.7 | 1492.9 | 1492.1 |
| 40°    | 1456.1 | 1445.4 | 1447.0 | 1434.0 | 1430.4 |
| 42.5°  | 1397.4 | 1385.2 | 1386.7 | 1373.9 | 1373.1 |
| 45°    | 1307.4 | 1298.4 | 1298.2 | 1285.4 | 1285.4 |
| 47.5°  | 1211.9 | 1205.1 | 1203.1 | 1192.4 | 1192.1 |
| 50°    | 1145.8 | 1140.4 | 1138.5 | 1129.2 | 1127.5 |
| 52.5°  | 1076.8 | 1074.3 | 1068.0 | 1060.2 | 1059.9 |
| 55°    | 969.5  | 965.9  | 956.7  | 951.1  | 949.3  |
| 57.5°  | 853.1  | 845.9  | 835.5  | 827.4  | 828.9  |
| 60°    | 769.4  | 762.2  | 747.4  | 743.7  | 743.7  |
| 62.5°  | 688.6  | 680.0  | 665.1  | 660.0  | 662.9  |
| 65°    | 572.9  | 562.1  | 549.0  | 545.4  | 547.2  |
| 67.5°  | 467.9  | 458.2  | 444.0  | 444.0  | 442.5  |
| 70°    | 400.3  | 394.9  | 383.8  | 383.8  | 383.8  |
| 72.5°  | 340.1  | 337.6  | 329.4  | 329.4  | 328.0  |
| 75°    | 260.7  | 260.7  | 257.1  | 255.2  | 253.4  |
| 77.5°  | 195.4  | 196.1  | 194.3  | 192.4  | 189.1  |
| 80°    | 154.2  | 157.8  | 156.1  | 154.2  | 152.4  |
| 82.5°  | 116.1  | 119.6  | 119.4  | 116.0  | 115.7  |
| 85°    | 60.6   | 66.0   | 66.1   | 66.1   | 66.1   |
| 87.5°  | 16.2   | 21.9   | 23.5   | 23.5   | 25.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 17.4   | 92.0   | 213.5  | 62.1   | 46.9   |
| 95°    | 56.4   | 224.0  | 1006.8 | 348.5  | 214.8  |
| 97.5°  | 103.7  | 262.4  | 1550.5 | 1109.5 | 760.3  |
| 100°   | 136.7  | 285.2  | 1668.5 | 1690.1 | 1301.8 |
| 102.5° | 173.1  | 309.8  | 1642.5 | 2163.3 | 1824.3 |
| 105°   | 230.0  | 348.8  | 1508.0 | 2663.6 | 2532.1 |
| 107.5° | 287.7  | 394.2  | 1350.9 | 2804.6 | 2921.8 |
| 110°   | 327.6  | 427.3  | 1260.6 | 2750.7 | 3013.7 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 365.8  | 460.4  | 1199.9 | 2623.0 | 2998.1 |
| 115°   | 427.4  | 516.5  | 1143.4 | 2422.3 | 2844.5 |
| 117.5° | 481.7  | 565.3  | 1110.0 | 2202.9 | 2650.1 |
| 120°   | 525.1  | 595.1  | 1106.6 | 2077.5 | 2506.0 |
| 122.5° | 559.8  | 629.8  | 1097.9 | 1967.4 | 2365.4 |
| 125°   | 603.2  | 669.0  | 1091.4 | 1811.1 | 2165.4 |
| 127.5° | 650.5  | 712.0  | 1087.9 | 1717.7 | 2009.6 |
| 130°   | 674.8  | 736.3  | 1082.7 | 1652.6 | 1907.2 |
| 132.5° | 700.8  | 760.6  | 1082.7 | 1601.8 | 1836.0 |
| 135°   | 737.7  | 799.2  | 1078.4 | 1529.8 | 1729.3 |
| 137.5° | 772.4  | 832.2  | 1077.9 | 1468.9 | 1641.2 |
| 140°   | 798.5  | 860.0  | 1076.2 | 1418.4 | 1583.9 |
| 142.5° | 828.0  | 879.3  | 1081.4 | 1378.1 | 1526.6 |
| 145°   | 870.1  | 914.6  | 1087.0 | 1324.1 | 1442.9 |
| 147.5° | 906.1  | 949.4  | 1096.6 | 1269.5 | 1372.1 |
| 150°   | 937.3  | 967.0  | 1100.1 | 1251.4 | 1323.5 |
| 152.5° | 961.6  | 993.0  | 1103.5 | 1227.0 | 1294.0 |
| 155°   | 993.7  | 1017.1 | 1113.1 | 1196.6 | 1245.4 |
| 157.5° | 1033.7 | 1047.7 | 1115.2 | 1182.9 | 1217.7 |
| 160°   | 1054.5 | 1065.1 | 1123.9 | 1172.3 | 1202.0 |
| 162.5° | 1066.6 | 1078.9 | 1125.7 | 1163.5 | 1186.4 |
| 165°   | 1097.9 | 1102.1 | 1126.1 | 1150.3 | 1167.3 |
| 167.5° | 1119.1 | 1115.3 | 1136.1 | 1147.1 | 1153.9 |
| 170°   | 1126.1 | 1124.0 | 1132.6 | 1135.0 | 1143.4 |
| 172.5° | 1141.7 | 1134.5 | 1137.8 | 1131.4 | 1138.2 |
| 175°   | 1150.0 | 1143.6 | 1139.1 | 1132.4 | 1123.9 |
| 177.5° | 1153.4 | 1143.2 | 1137.8 | 1130.9 | 1132.6 |
| 180°   | 1141.3 | 1141.3 | 1141.3 | 1141.3 | 1141.3 |

(END OF REPORT)