

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: P563724

Luminaire Tested: **SQ4-PP3-125U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563724
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

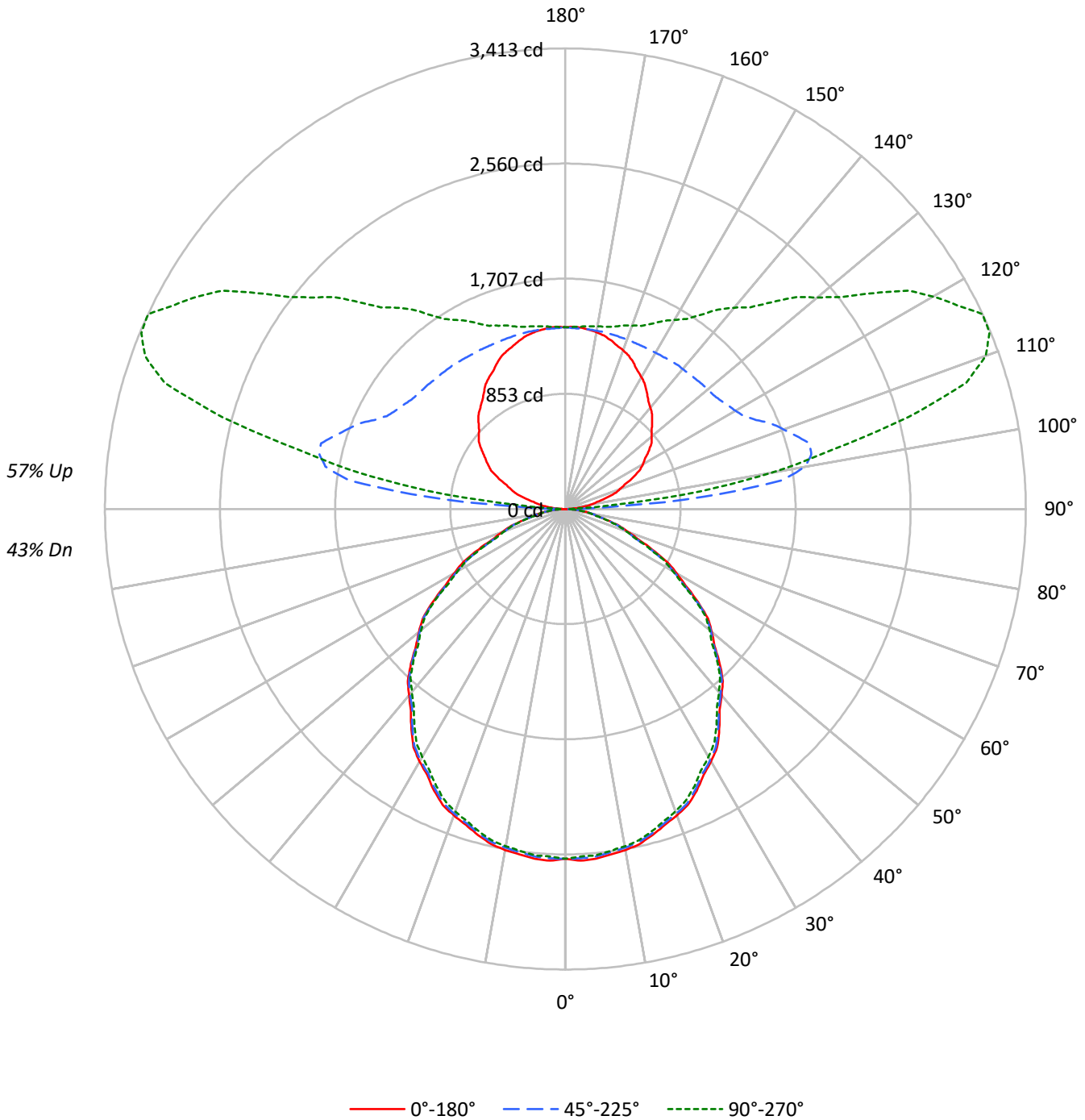
Lumens per Lamp: N/A
Luminaire Lumens: 15324.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 96 | 92 | 88 | 85 | 88 | 85 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 43 | 37 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 50 | 47 | 45 | 39 | 38 | 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 | 32 | 28 | 28 | 25 | 23 | 20 |
| 6 | 62 | 50 | 42 | 37 | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 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 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11957 | 11957 | 11957 |
| 5° | 12045 | 11971 | 11929 |
| 10° | 12025 | 11939 | 11886 |
| 15° | 11945 | 11880 | 11814 |
| 20° | 11865 | 11799 | 11709 |
| 25° | 11725 | 11644 | 11528 |
| 30° | 11508 | 11447 | 11302 |
| 35° | 11207 | 11130 | 10989 |
| 40° | 10848 | 10780 | 10656 |
| 45° | 10552 | 10478 | 10374 |
| 50° | 10173 | 10108 | 10010 |
| 55° | 9646 | 9519 | 9445 |
| 60° | 8781 | 8531 | 8488 |
| 65° | 7737 | 7414 | 7390 |
| 70° | 6679 | 6404 | 6404 |
| 75° | 5750 | 5668 | 5588 |
| 80° | 5069 | 5130 | 5008 |
| 85° | 3970 | 4330 | 4330 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.1 | 1.6 |
| 10°-20° | 699.8 | 4.6 |
| 20°-30° | 1048.2 | 6.8 |
| 30°-40° | 1229.5 | 8.0 |
| 40°-50° | 1233.4 | 8.0 |
| 50°-60° | 1052.2 | 6.9 |
| 60°-70° | 686.2 | 4.5 |
| 70°-80° | 344.3 | 2.2 |
| 80°-90° | 98.4 | 0.6 |
| 90°-100° | 629.6 | 4.1 |
| 100°-110° | 1695.9 | 11.1 |
| 110°-120° | 1779.8 | 11.6 |
| 120°-130° | 1444.2 | 9.4 |
| 130°-140° | 1132.7 | 7.4 |
| 140°-150° | 869.6 | 5.7 |
| 150°-160° | 625.2 | 4.1 |
| 160°-170° | 382.0 | 2.5 |
| 170°-180° | 128.8 | 0.8 |
| 0°-30° | 1993.2 | 13.0 |
| 0°-40° | 3222.7 | 21.0 |
| 0°-60° | 5508.3 | 35.9 |
| 0°-90° | 6637.2 | 43.3 |
| 90°-120° | 4105.2 | 26.8 |
| 90°-150° | 7551.7 | 49.3 |
| 90°-180° | 8688.0 | 56.7 |
| 0°-180° | 15324.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2592 | 2592 | 2592 | 2592 | 2592 | |
| 5° | 2601 | 2577 | 2585 | 2576 | 2576 | 247 |
| 15° | 2501 | 2477 | 2488 | 2478 | 2474 | 706 |
| 25° | 2304 | 2277 | 2288 | 2267 | 2265 | 1059 |
| 35° | 1990 | 1970 | 1976 | 1954 | 1951 | 1243 |
| 45° | 1617 | 1606 | 1606 | 1590 | 1590 | 1245 |
| 55° | 1199 | 1195 | 1184 | 1177 | 1174 | 1066 |
| 65° | 709 | 695 | 679 | 675 | 677 | 707 |
| 75° | 323 | 323 | 318 | 316 | 314 | 350 |
| 85° | 75 | 82 | 82 | 82 | 82 | 88 |
| 90° | 3 | 10 | 21 | 22 | 22 | 9 |
| 95° | 96 | 342 | 1032 | 528 | 365 | 100 |
| 105° | 314 | 488 | 1876 | 2806 | 2633 | 330 |
| 115° | 554 | 678 | 1562 | 3018 | 3413 | 545 |
| 125° | 756 | 868 | 1402 | 2370 | 2789 | 675 |
| 135° | 910 | 1016 | 1363 | 1912 | 2165 | 703 |
| 145° | 1053 | 1135 | 1346 | 1635 | 1756 | 660 |
| 155° | 1195 | 1238 | 1334 | 1467 | 1514 | 550 |
| 165° | 1296 | 1311 | 1339 | 1392 | 1399 | 365 |
| 175° | 1348 | 1346 | 1341 | 1359 | 1356 | 128 |
| 180° | 1346 | 1346 | 1346 | 1346 | 1346 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2592.0 | 2592.0 | 2592.0 | 2592.0 | 2592.0 |
| 2.5° | 2608.3 | 2587.0 | 2592.0 | 2588.1 | 2577.4 |
| 5° | 2601.1 | 2576.6 | 2585.2 | 2576.1 | 2576.1 |
| 7.5° | 2583.3 | 2556.7 | 2565.2 | 2556.1 | 2555.6 |
| 10° | 2567.0 | 2540.3 | 2548.8 | 2539.7 | 2537.4 |
| 12.5° | 2543.4 | 2516.7 | 2527.0 | 2516.1 | 2515.6 |
| 15° | 2501.1 | 2476.7 | 2487.5 | 2478.3 | 2473.8 |
| 17.5° | 2453.4 | 2426.7 | 2439.8 | 2427.0 | 2425.2 |
| 20° | 2417.0 | 2390.4 | 2403.4 | 2385.2 | 2385.2 |
| 22.5° | 2373.4 | 2346.8 | 2361.6 | 2338.0 | 2338.0 |
| 25° | 2303.5 | 2276.8 | 2287.6 | 2267.1 | 2264.8 |
| 27.5° | 2220.3 | 2194.1 | 2205.3 | 2182.1 | 2181.7 |
| 30° | 2160.4 | 2135.9 | 2149.0 | 2124.0 | 2121.7 |
| 32.5° | 2094.9 | 2072.3 | 2081.8 | 2056.7 | 2054.5 |
| 35° | 1990.0 | 1970.0 | 1976.3 | 1953.6 | 1951.4 |
| 37.5° | 1879.6 | 1859.1 | 1866.4 | 1846.8 | 1846.0 |
| 40° | 1801.4 | 1788.1 | 1790.1 | 1774.1 | 1769.6 |
| 42.5° | 1728.7 | 1713.6 | 1715.6 | 1699.6 | 1698.7 |
| 45° | 1617.4 | 1606.3 | 1606.1 | 1590.2 | 1590.2 |
| 47.5° | 1499.3 | 1490.9 | 1488.4 | 1475.2 | 1474.8 |
| 50° | 1417.5 | 1410.9 | 1408.4 | 1397.0 | 1394.8 |
| 52.5° | 1332.1 | 1329.0 | 1321.2 | 1311.6 | 1311.2 |
| 55° | 1199.4 | 1195.0 | 1183.5 | 1176.7 | 1174.4 |
| 57.5° | 1055.4 | 1046.5 | 1033.6 | 1023.7 | 1025.4 |
| 60° | 951.8 | 942.9 | 924.6 | 920.0 | 920.0 |
| 62.5° | 851.9 | 841.2 | 822.8 | 816.5 | 820.1 |
| 65° | 708.8 | 695.4 | 679.2 | 674.7 | 677.0 |
| 67.5° | 578.8 | 566.8 | 549.3 | 549.2 | 547.5 |
| 70° | 495.2 | 488.6 | 474.8 | 474.8 | 474.8 |
| 72.5° | 420.7 | 417.6 | 407.5 | 407.5 | 405.7 |
| 75° | 322.6 | 322.6 | 318.0 | 315.7 | 313.5 |
| 77.5° | 241.7 | 242.6 | 240.3 | 238.0 | 234.0 |
| 80° | 190.8 | 195.3 | 193.1 | 190.8 | 188.5 |
| 82.5° | 143.6 | 148.0 | 147.7 | 143.6 | 143.1 |
| 85° | 75.0 | 81.6 | 81.8 | 81.8 | 81.8 |
| 87.5° | 20.7 | 29.1 | 33.2 | 33.6 | 35.4 |
| 90° | 3.4 | 10.1 | 20.6 | 22.3 | 22.3 |
| 92.5° | 41.8 | 147.8 | 292.1 | 140.6 | 97.7 |
| 95° | 96.0 | 342.4 | 1032.0 | 527.8 | 365.2 |
| 97.5° | 153.3 | 392.0 | 1618.7 | 1352.3 | 1019.7 |
| 100° | 197.2 | 411.7 | 1805.2 | 1888.8 | 1566.9 |
| 102.5° | 239.7 | 439.5 | 1866.9 | 2290.6 | 2026.4 |
| 105° | 313.7 | 488.1 | 1875.5 | 2805.9 | 2633.3 |
| 107.5° | 383.7 | 539.2 | 1795.6 | 3070.7 | 3115.3 |
| 110° | 430.3 | 577.8 | 1722.9 | 3153.0 | 3315.6 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 479.7 | 616.5 | 1653.0 | 3134.8 | 3402.0 |
| 115° | 553.7 | 677.8 | 1561.8 | 3017.7 | 3413.3 |
| 117.5° | 621.3 | 737.6 | 1491.2 | 2830.8 | 3271.3 |
| 120° | 665.2 | 777.5 | 1455.5 | 2696.7 | 3149.3 |
| 122.5° | 703.6 | 814.5 | 1429.4 | 2559.5 | 3010.8 |
| 125° | 756.0 | 868.3 | 1402.3 | 2370.2 | 2789.3 |
| 127.5° | 806.4 | 917.1 | 1385.2 | 2203.2 | 2577.4 |
| 130° | 836.6 | 947.2 | 1378.3 | 2107.6 | 2436.1 |
| 132.5° | 866.8 | 976.1 | 1371.5 | 2023.3 | 2325.0 |
| 135° | 910.3 | 1015.9 | 1362.9 | 1912.1 | 2165.2 |
| 137.5° | 951.8 | 1053.1 | 1358.5 | 1817.8 | 2025.7 |
| 140° | 980.6 | 1077.8 | 1354.3 | 1759.8 | 1947.5 |
| 142.5° | 1010.8 | 1101.3 | 1351.6 | 1705.6 | 1863.9 |
| 145° | 1052.6 | 1134.8 | 1345.8 | 1634.8 | 1755.5 |
| 147.5° | 1097.9 | 1169.3 | 1339.9 | 1575.3 | 1670.1 |
| 150° | 1128.0 | 1190.1 | 1337.2 | 1537.9 | 1616.6 |
| 152.5° | 1155.5 | 1209.5 | 1335.8 | 1507.3 | 1571.4 |
| 155° | 1194.9 | 1238.5 | 1333.8 | 1466.8 | 1513.8 |
| 157.5° | 1229.5 | 1263.4 | 1334.1 | 1438.4 | 1469.9 |
| 160° | 1251.5 | 1280.0 | 1335.5 | 1421.7 | 1445.2 |
| 162.5° | 1270.7 | 1293.8 | 1336.9 | 1407.9 | 1424.6 |
| 165° | 1296.1 | 1311.1 | 1338.9 | 1392.2 | 1398.9 |
| 167.5° | 1316.6 | 1325.3 | 1340.6 | 1380.1 | 1382.8 |
| 170° | 1330.3 | 1333.7 | 1340.6 | 1373.2 | 1373.2 |
| 172.5° | 1338.6 | 1339.2 | 1342.0 | 1366.3 | 1366.3 |
| 175° | 1347.5 | 1345.8 | 1340.6 | 1359.4 | 1356.1 |
| 177.5° | 1351.3 | 1348.6 | 1341.7 | 1352.6 | 1349.9 |
| 180° | 1345.8 | 1345.8 | 1345.8 | 1345.8 | 1345.8 |

(END OF REPORT)