

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: P563052

Luminaire Tested: **SQ4-PC3-125U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563052
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

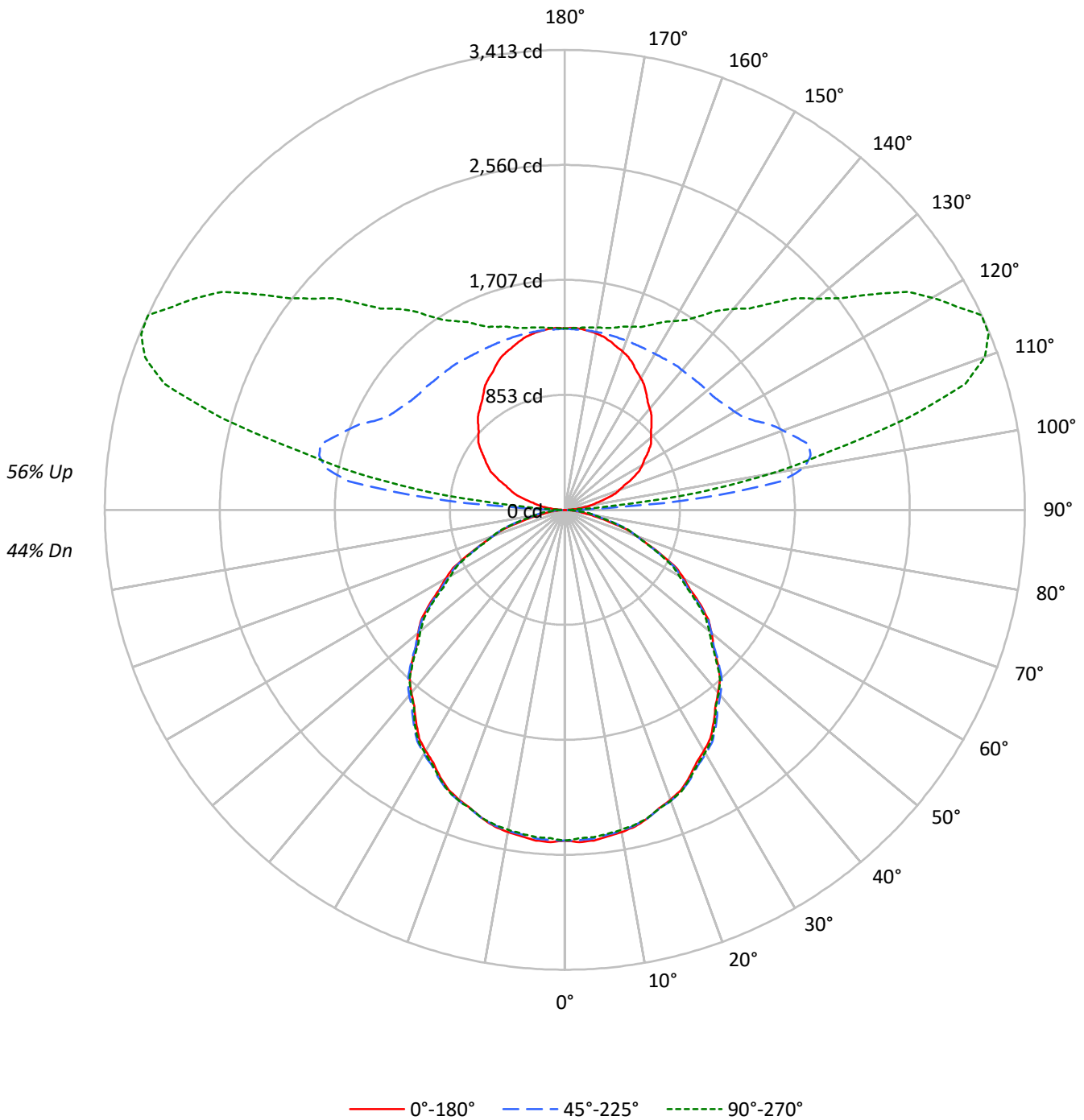
Lumens per Lamp: N/A
Luminaire Lumens: 15388.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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 | 44 |
| 1 | 96 | 92 | 88 | 85 | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 42 | 37 |
| 2 | 88 | 80 | 74 | 69 | 80 | 74 | 69 | 64 | 61 | 58 | 54 | 50 | 47 | 45 | 39 | 37 | 36 | 31 |
| 3 | 80 | 71 | 63 | 58 | 73 | 65 | 59 | 54 | 54 | 49 | 46 | 44 | 41 | 38 | 35 | 32 | 30 | 26 |
| 4 | 73 | 62 | 55 | 49 | 67 | 57 | 51 | 45 | 48 | 43 | 39 | 39 | 35 | 32 | 31 | 28 | 26 | 22 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 37 | 33 | 35 | 31 | 28 | 28 | 25 | 23 | 19 |
| 6 | 62 | 50 | 42 | 36 | 56 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 24 | 25 | 22 | 20 | 17 |
| 7 | 57 | 45 | 37 | 31 | 52 | 41 | 34 | 29 | 35 | 29 | 25 | 29 | 25 | 22 | 23 | 20 | 18 | 15 |
| 8 | 53 | 41 | 33 | 28 | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 13 |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11321 | 11321 | 11321 |
| 5° | 11406 | 11332 | 11290 |
| 10° | 11378 | 11325 | 11293 |
| 15° | 11318 | 11318 | 11307 |
| 20° | 11244 | 11277 | 11277 |
| 25° | 11137 | 11218 | 11184 |
| 30° | 11002 | 11135 | 11087 |
| 35° | 10838 | 11005 | 10928 |
| 40° | 10659 | 10809 | 10700 |
| 45° | 10466 | 10539 | 10376 |
| 50° | 10192 | 10192 | 10029 |
| 55° | 9868 | 9741 | 9594 |
| 60° | 9391 | 9203 | 9056 |
| 65° | 8681 | 8508 | 8432 |
| 70° | 7600 | 7661 | 7631 |
| 75° | 6115 | 6764 | 6803 |
| 80° | 4346 | 5736 | 5794 |
| 85° | 2646 | 4811 | 4811 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.2 | 1.5 |
| 10°-20° | 666.5 | 4.3 |
| 20°-30° | 1009.3 | 6.6 |
| 30°-40° | 1210.0 | 7.9 |
| 40°-50° | 1233.8 | 8.0 |
| 50°-60° | 1077.0 | 7.0 |
| 60°-70° | 771.0 | 5.0 |
| 70°-80° | 397.1 | 2.6 |
| 80°-90° | 103.6 | 0.7 |
| 90°-100° | 629.6 | 4.1 |
| 100°-110° | 1695.9 | 11.0 |
| 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° | 1908.0 | 12.4 |
| 0°-40° | 3118.0 | 20.3 |
| 0°-60° | 5428.7 | 35.3 |
| 0°-90° | 6700.5 | 43.5 |
| 90°-120° | 4105.2 | 26.7 |
| 90°-150° | 7551.7 | 49.1 |
| 90°-180° | 8688.0 | 56.5 |
| 0°-180° | 15388.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2454 | 2454 | 2454 | 2454 | 2454 | |
| 5° | 2463 | 2439 | 2447 | 2440 | 2438 | 234 |
| 15° | 2370 | 2350 | 2370 | 2370 | 2368 | 668 |
| 25° | 2188 | 2173 | 2204 | 2197 | 2197 | 1007 |
| 35° | 1925 | 1920 | 1954 | 1940 | 1940 | 1204 |
| 45° | 1604 | 1600 | 1616 | 1595 | 1590 | 1235 |
| 55° | 1227 | 1211 | 1211 | 1193 | 1193 | 1094 |
| 65° | 795 | 778 | 779 | 772 | 772 | 787 |
| 75° | 343 | 359 | 380 | 382 | 382 | 371 |
| 85° | 50 | 77 | 91 | 93 | 91 | 68 |
| 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 | |



TEST NUMBER: P563052

CATALOG NUMBER: SQ4-PC3-125U-100D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2454.0 | 2454.0 | 2454.0 | 2454.0 | 2454.0 |
| 2.5° | 2468.5 | 2447.2 | 2454.0 | 2448.3 | 2439.4 |
| 5° | 2463.1 | 2438.6 | 2447.2 | 2440.3 | 2438.1 |
| 7.5° | 2445.3 | 2420.9 | 2432.2 | 2427.6 | 2425.3 |
| 10° | 2429.0 | 2404.5 | 2417.6 | 2413.0 | 2410.8 |
| 12.5° | 2407.2 | 2384.5 | 2399.4 | 2394.9 | 2394.4 |
| 15° | 2369.9 | 2349.9 | 2369.9 | 2369.9 | 2367.6 |
| 17.5° | 2323.1 | 2304.9 | 2326.3 | 2327.6 | 2326.3 |
| 20° | 2290.4 | 2270.4 | 2297.2 | 2295.0 | 2297.2 |
| 22.5° | 2250.4 | 2233.9 | 2262.7 | 2256.8 | 2259.0 |
| 25° | 2188.1 | 2172.6 | 2204.0 | 2197.2 | 2197.2 |
| 27.5° | 2114.5 | 2103.4 | 2137.7 | 2130.4 | 2130.4 |
| 30° | 2065.4 | 2054.3 | 2090.4 | 2081.3 | 2081.3 |
| 32.5° | 2010.9 | 2003.3 | 2037.7 | 2026.8 | 2026.8 |
| 35° | 1924.6 | 1920.1 | 1954.1 | 1940.5 | 1940.5 |
| 37.5° | 1835.5 | 1831.5 | 1862.3 | 1845.8 | 1840.5 |
| 40° | 1770.0 | 1767.8 | 1795.0 | 1776.9 | 1776.9 |
| 42.5° | 1704.6 | 1702.4 | 1726.0 | 1704.1 | 1704.1 |
| 45° | 1604.2 | 1599.7 | 1615.5 | 1595.0 | 1590.5 |
| 47.5° | 1494.7 | 1490.2 | 1500.1 | 1477.8 | 1475.6 |
| 50° | 1420.1 | 1415.7 | 1420.1 | 1399.6 | 1397.4 |
| 52.5° | 1343.8 | 1335.8 | 1336.5 | 1316.0 | 1315.6 |
| 55° | 1227.0 | 1211.4 | 1211.1 | 1192.9 | 1192.9 |
| 57.5° | 1103.4 | 1082.9 | 1084.7 | 1069.2 | 1067.0 |
| 60° | 1017.9 | 995.7 | 997.5 | 983.8 | 981.6 |
| 62.5° | 934.3 | 908.6 | 913.9 | 898.4 | 898.0 |
| 65° | 795.3 | 777.5 | 779.4 | 772.5 | 772.5 |
| 67.5° | 661.7 | 645.2 | 657.1 | 651.7 | 651.2 |
| 70° | 563.5 | 552.4 | 568.0 | 568.0 | 565.8 |
| 72.5° | 472.6 | 472.2 | 491.7 | 491.7 | 493.1 |
| 75° | 343.1 | 358.7 | 379.5 | 381.7 | 381.7 |
| 77.5° | 229.0 | 256.6 | 279.5 | 280.4 | 279.9 |
| 80° | 163.6 | 194.7 | 215.9 | 220.4 | 218.1 |
| 82.5° | 110.9 | 143.8 | 161.3 | 165.8 | 163.6 |
| 85° | 50.0 | 76.6 | 90.9 | 93.1 | 90.9 |
| 87.5° | 15.2 | 32.6 | 40.5 | 40.7 | 37.2 |
| 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)