

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: P563170

Luminaire Tested: **SQ4-PC3-150U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563170
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

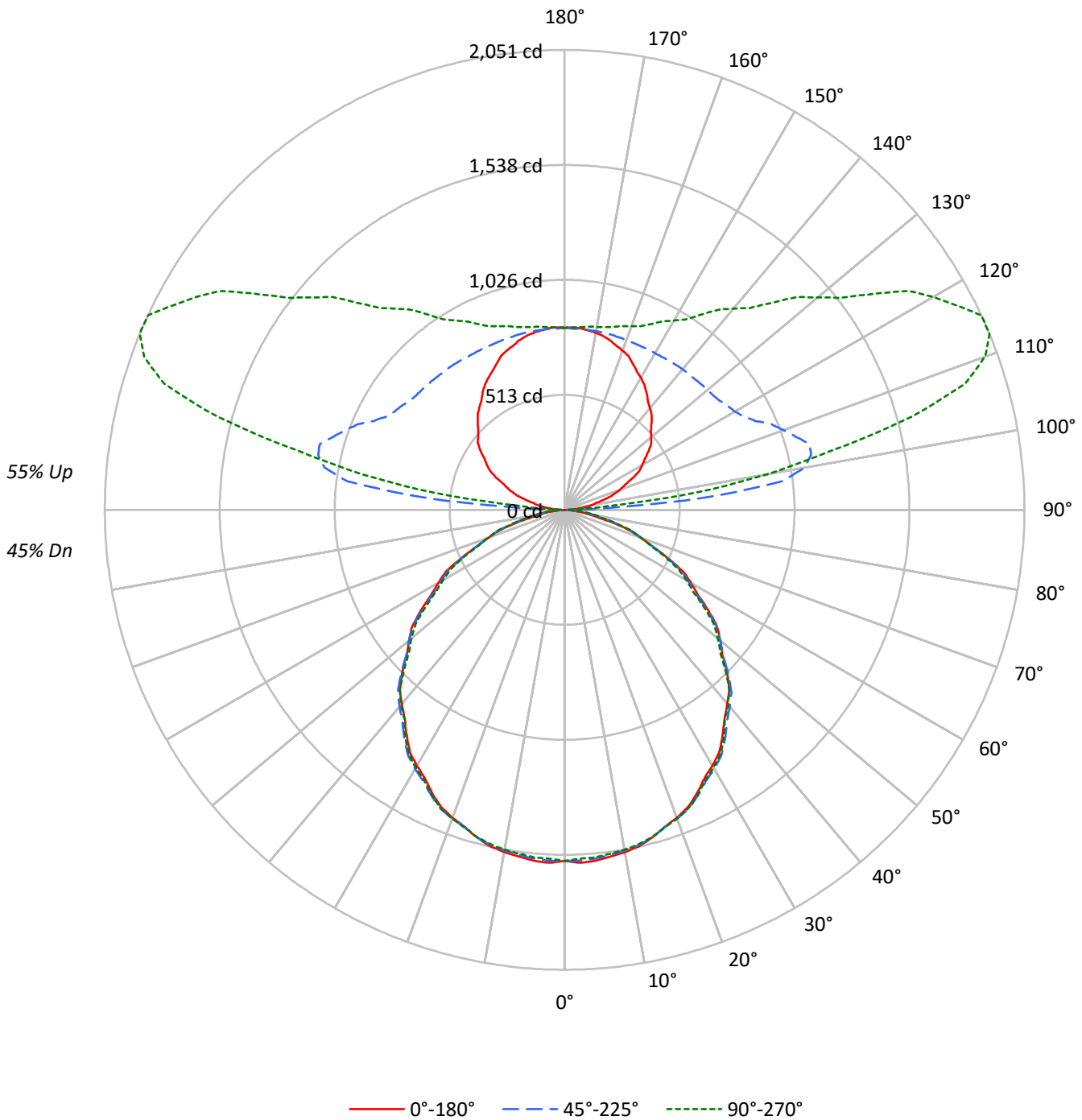
Lumens per Lamp: N/A
Luminaire Lumens: 9509.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1 | 97 | 92 | 89 | 85 | 88 | 85 | 82 | 79 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 | 38 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 38 | 37 | 32 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 18 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 20 | 18 | 15 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 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° | 14446 | 14446 | 14446 |
| 5° | 14555 | 14462 | 14408 |
| 10° | 14520 | 14452 | 14412 |
| 15° | 14444 | 14444 | 14430 |
| 20° | 14348 | 14392 | 14392 |
| 25° | 14213 | 14316 | 14272 |
| 30° | 14040 | 14210 | 14148 |
| 35° | 13831 | 14043 | 13945 |
| 40° | 13602 | 13795 | 13655 |
| 45° | 13356 | 13450 | 13242 |
| 50° | 13006 | 13006 | 12798 |
| 55° | 12593 | 12431 | 12244 |
| 60° | 11985 | 11745 | 11557 |
| 65° | 11077 | 10857 | 10761 |
| 70° | 9700 | 9779 | 9738 |
| 75° | 7803 | 8630 | 8684 |
| 80° | 5547 | 7316 | 7396 |
| 85° | 3377 | 6140 | 6140 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.2 | 1.6 |
| 10°-20° | 425.3 | 4.5 |
| 20°-30° | 644.0 | 6.8 |
| 30°-40° | 772.1 | 8.1 |
| 40°-50° | 787.2 | 8.3 |
| 50°-60° | 687.2 | 7.2 |
| 60°-70° | 492.0 | 5.2 |
| 70°-80° | 253.4 | 2.7 |
| 80°-90° | 65.8 | 0.7 |
| 90°-100° | 377.3 | 4.0 |
| 100°-110° | 1020.1 | 10.7 |
| 110°-120° | 1072.5 | 11.3 |
| 120°-130° | 871.2 | 9.2 |
| 130°-140° | 683.3 | 7.2 |
| 140°-150° | 524.5 | 5.5 |
| 150°-160° | 377.2 | 4.0 |
| 160°-170° | 230.4 | 2.4 |
| 170°-180° | 77.7 | 0.8 |
| 0°-30° | 1217.4 | 12.8 |
| 0°-40° | 1989.5 | 20.9 |
| 0°-60° | 3463.9 | 36.4 |
| 0°-90° | 4275.1 | 45.0 |
| 90°-120° | 2469.9 | 26.0 |
| 90°-150° | 4548.9 | 47.8 |
| 90°-180° | 5234.0 | 55.0 |
| 0°-180° | 9509.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1566 | 1566 | 1566 | 1566 | 1566 | |
| 5° | 1572 | 1556 | 1562 | 1557 | 1556 | 149 |
| 15° | 1512 | 1499 | 1512 | 1512 | 1511 | 426 |
| 25° | 1396 | 1386 | 1406 | 1402 | 1402 | 643 |
| 35° | 1228 | 1225 | 1247 | 1238 | 1238 | 768 |
| 45° | 1024 | 1021 | 1031 | 1018 | 1015 | 788 |
| 55° | 783 | 773 | 773 | 761 | 761 | 698 |
| 65° | 507 | 496 | 497 | 493 | 493 | 502 |
| 75° | 219 | 229 | 242 | 244 | 244 | 237 |
| 85° | 32 | 49 | 58 | 59 | 58 | 43 |
| 90° | 2 | 5 | 11 | 12 | 11 | 5 |
| 95° | 58 | 206 | 627 | 325 | 193 | 61 |
| 105° | 190 | 293 | 1132 | 1669 | 1601 | 200 |
| 115° | 334 | 408 | 938 | 1817 | 2051 | 330 |
| 125° | 457 | 524 | 846 | 1428 | 1677 | 407 |
| 135° | 548 | 613 | 823 | 1153 | 1305 | 423 |
| 145° | 637 | 685 | 812 | 987 | 1062 | 399 |
| 155° | 719 | 747 | 805 | 885 | 914 | 332 |
| 165° | 783 | 791 | 808 | 840 | 844 | 221 |
| 175° | 813 | 812 | 809 | 820 | 818 | 77 |
| 180° | 812 | 812 | 812 | 812 | 812 | |



TEST NUMBER: P563170

CATALOG NUMBER: SQ4-PC3-150U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 |
| 2.5° | 1575.1 | 1561.5 | 1565.8 | 1562.2 | 1556.5 |
| 5° | 1571.6 | 1556.0 | 1561.5 | 1557.1 | 1555.7 |
| 7.5° | 1560.3 | 1544.7 | 1551.9 | 1549.0 | 1547.5 |
| 10° | 1549.9 | 1534.3 | 1542.6 | 1539.7 | 1538.3 |
| 12.5° | 1535.9 | 1521.5 | 1531.0 | 1528.1 | 1527.8 |
| 15° | 1512.2 | 1499.4 | 1512.2 | 1512.1 | 1510.7 |
| 17.5° | 1482.3 | 1470.7 | 1484.3 | 1485.2 | 1484.3 |
| 20° | 1461.4 | 1448.7 | 1465.8 | 1464.3 | 1465.8 |
| 22.5° | 1435.9 | 1425.4 | 1443.7 | 1440.0 | 1441.4 |
| 25° | 1396.2 | 1386.2 | 1406.3 | 1402.0 | 1402.0 |
| 27.5° | 1349.2 | 1342.1 | 1364.0 | 1359.3 | 1359.3 |
| 30° | 1317.9 | 1310.8 | 1333.8 | 1328.0 | 1328.0 |
| 32.5° | 1283.1 | 1278.3 | 1300.2 | 1293.2 | 1293.2 |
| 35° | 1228.0 | 1225.2 | 1246.8 | 1238.1 | 1238.1 |
| 37.5° | 1171.2 | 1168.6 | 1188.3 | 1177.8 | 1174.4 |
| 40° | 1129.4 | 1128.0 | 1145.4 | 1133.8 | 1133.8 |
| 42.5° | 1087.7 | 1086.2 | 1101.3 | 1087.4 | 1087.4 |
| 45° | 1023.6 | 1020.7 | 1030.8 | 1017.7 | 1014.9 |
| 47.5° | 953.7 | 950.9 | 957.2 | 942.9 | 941.5 |
| 50° | 906.1 | 903.3 | 906.1 | 893.1 | 891.6 |
| 52.5° | 857.4 | 852.3 | 852.8 | 839.7 | 839.4 |
| 55° | 782.9 | 773.0 | 772.8 | 761.2 | 761.2 |
| 57.5° | 704.0 | 691.0 | 692.1 | 682.3 | 680.8 |
| 60° | 649.5 | 635.3 | 636.5 | 627.7 | 626.3 |
| 62.5° | 596.2 | 579.7 | 583.1 | 573.3 | 573.0 |
| 65° | 507.4 | 496.1 | 497.3 | 492.9 | 492.9 |
| 67.5° | 422.2 | 411.7 | 419.3 | 415.8 | 415.5 |
| 70° | 359.6 | 352.5 | 362.5 | 362.4 | 361.0 |
| 72.5° | 301.6 | 301.3 | 313.7 | 313.8 | 314.6 |
| 75° | 218.9 | 228.8 | 242.1 | 243.6 | 243.6 |
| 77.5° | 146.1 | 163.7 | 178.3 | 178.9 | 178.6 |
| 80° | 104.4 | 124.2 | 137.7 | 140.6 | 139.2 |
| 82.5° | 70.8 | 91.7 | 102.9 | 105.8 | 104.4 |
| 85° | 31.9 | 48.9 | 58.0 | 59.4 | 58.0 |
| 87.5° | 9.6 | 20.5 | 25.5 | 25.6 | 23.1 |
| 90° | 1.7 | 5.2 | 11.4 | 12.2 | 11.4 |
| 92.5° | 24.8 | 90.4 | 178.4 | 77.5 | 56.1 |
| 95° | 58.5 | 205.5 | 627.4 | 324.7 | 193.1 |
| 97.5° | 94.0 | 235.7 | 978.0 | 809.4 | 594.4 |
| 100° | 120.6 | 247.9 | 1087.1 | 1133.7 | 916.7 |
| 102.5° | 145.1 | 264.9 | 1125.6 | 1379.7 | 1217.3 |
| 105° | 189.6 | 293.0 | 1131.7 | 1669.3 | 1600.9 |
| 107.5° | 230.9 | 325.2 | 1082.2 | 1850.0 | 1872.7 |
| 110° | 263.0 | 348.5 | 1038.2 | 1898.5 | 1995.1 |

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CATALOG NUMBER: SQ4-PC3-150U-125D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 291.7 | 371.7 | 997.6 | 1888.8 | 2051.0 |
| 115° | 333.8 | 408.2 | 938.5 | 1816.9 | 2051.0 |
| 117.5° | 375.1 | 444.8 | 899.6 | 1706.9 | 1972.3 |
| 120° | 400.2 | 468.6 | 876.5 | 1628.1 | 1898.9 |
| 122.5° | 424.0 | 491.0 | 862.5 | 1543.5 | 1816.4 |
| 125° | 457.0 | 523.7 | 845.9 | 1427.5 | 1677.0 |
| 127.5° | 487.4 | 552.9 | 836.1 | 1332.8 | 1552.2 |
| 130° | 504.2 | 571.7 | 831.9 | 1274.2 | 1472.5 |
| 132.5° | 521.7 | 588.5 | 827.7 | 1221.5 | 1404.0 |
| 135° | 547.9 | 612.9 | 823.2 | 1152.6 | 1304.7 |
| 137.5° | 574.3 | 635.7 | 819.3 | 1096.7 | 1220.6 |
| 140° | 592.5 | 649.7 | 817.9 | 1060.8 | 1171.0 |
| 142.5° | 610.0 | 663.8 | 815.2 | 1028.3 | 1124.9 |
| 145° | 637.1 | 684.9 | 811.8 | 986.6 | 1061.8 |
| 147.5° | 661.7 | 704.1 | 808.0 | 948.8 | 1006.5 |
| 150° | 679.9 | 717.5 | 806.6 | 928.2 | 974.4 |
| 152.5° | 696.7 | 729.5 | 805.9 | 909.2 | 947.1 |
| 155° | 719.2 | 747.4 | 804.8 | 885.0 | 914.1 |
| 157.5° | 742.6 | 762.3 | 805.0 | 868.2 | 887.3 |
| 160° | 755.9 | 772.1 | 805.7 | 857.6 | 871.3 |
| 162.5° | 766.4 | 779.9 | 806.4 | 849.1 | 859.4 |
| 165° | 783.0 | 790.7 | 808.3 | 839.9 | 844.2 |
| 167.5° | 794.4 | 799.7 | 808.5 | 832.0 | 834.0 |
| 170° | 801.3 | 803.9 | 809.2 | 828.4 | 828.4 |
| 172.5° | 806.9 | 807.4 | 809.2 | 824.2 | 823.5 |
| 175° | 812.7 | 811.8 | 809.2 | 819.7 | 817.9 |
| 177.5° | 814.6 | 812.6 | 809.0 | 816.0 | 813.9 |
| 180° | 811.8 | 811.8 | 811.8 | 811.8 | 811.8 |

(END OF REPORT)