

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: P561636

Luminaire Tested: **SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561636
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

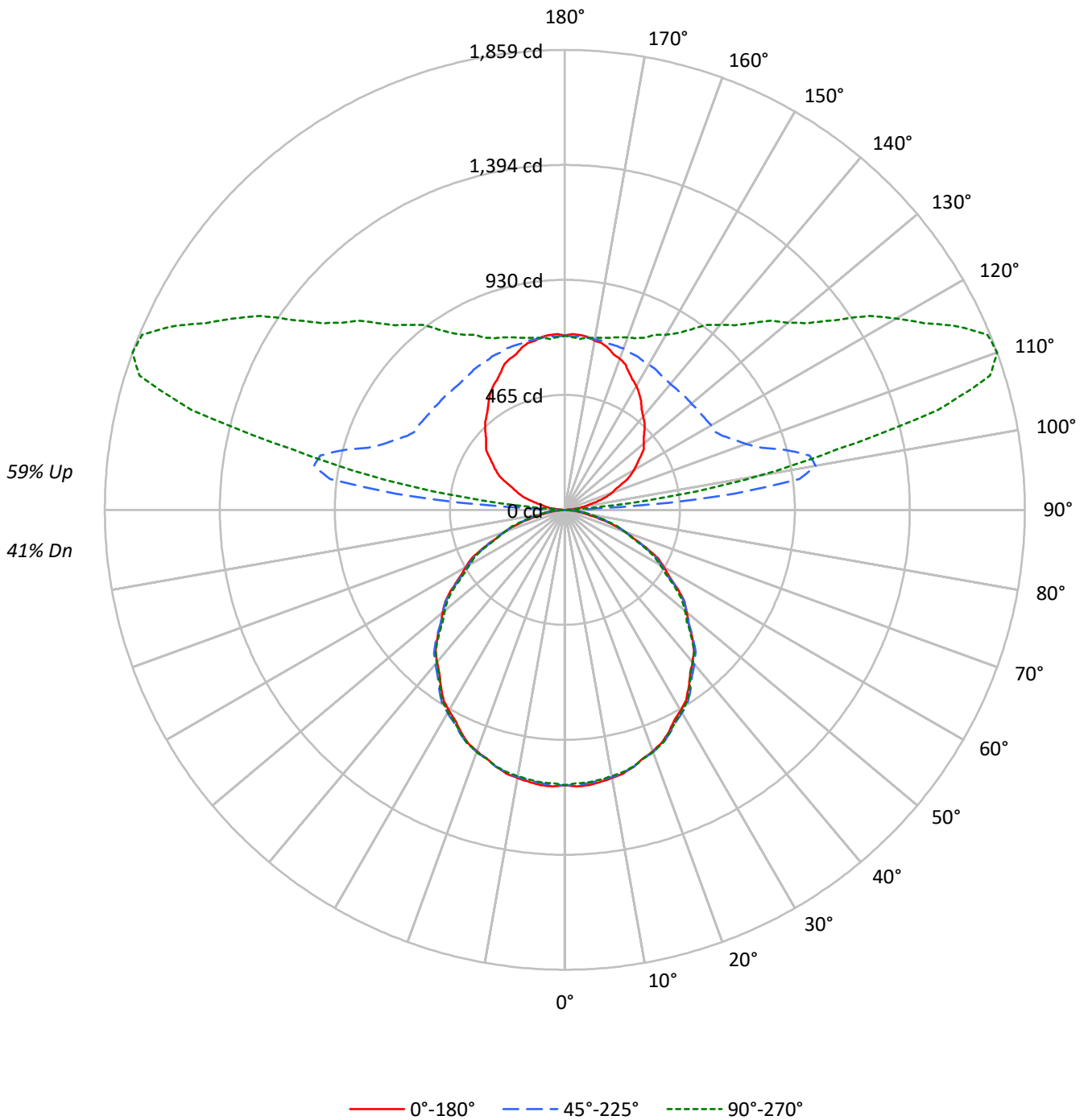
Lumens per Lamp: N/A
Luminaire Lumens: 7409.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.3
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





TEST NUMBER: P561636

CATALOG NUMBER: SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 62 | 62 | 62 | 48 | 48 | 48 | 41 |
| 1 | 96 | 92 | 88 | 84 | 87 | 84 | 80 | 77 | 69 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 | 35 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 48 | 46 | 43 | 37 | 36 | 34 | 29 |
| 3 | 80 | 70 | 63 | 57 | 72 | 64 | 58 | 53 | 53 | 48 | 45 | 43 | 39 | 37 | 33 | 31 | 29 | 25 |
| 4 | 73 | 62 | 54 | 48 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 29 | 27 | 25 | 21 |
| 5 | 67 | 55 | 47 | 41 | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 26 | 24 | 22 | 18 |
| 6 | 61 | 49 | 41 | 36 | 56 | 45 | 38 | 33 | 38 | 32 | 28 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7 | 57 | 45 | 37 | 31 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8 | 52 | 40 | 33 | 27 | 48 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 19 | 20 | 17 | 15 | 13 |
| 9 | 49 | 37 | 29 | 24 | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 16 | 14 | 11 |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 20 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10266 | 10266 | 10266 |
| 5° | 10343 | 10276 | 10239 |
| 10° | 10319 | 10270 | 10241 |
| 15° | 10264 | 10264 | 10254 |
| 20° | 10196 | 10227 | 10227 |
| 25° | 10100 | 10174 | 10142 |
| 30° | 9977 | 10097 | 10054 |
| 35° | 9828 | 9979 | 9909 |
| 40° | 9666 | 9803 | 9704 |
| 45° | 9491 | 9558 | 9410 |
| 50° | 9242 | 9242 | 9094 |
| 55° | 8948 | 8832 | 8701 |
| 60° | 8518 | 8346 | 8213 |
| 65° | 7872 | 7715 | 7647 |
| 70° | 6892 | 6949 | 6919 |
| 75° | 5547 | 6135 | 6171 |
| 80° | 3942 | 5202 | 5255 |
| 85° | 2403 | 4361 | 4361 |



TEST NUMBER: P561636

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 105.3 | 1.4 |
| 10°-20° | 302.2 | 4.1 |
| 20°-30° | 457.6 | 6.2 |
| 30°-40° | 548.6 | 7.4 |
| 40°-50° | 559.4 | 7.6 |
| 50°-60° | 488.3 | 6.6 |
| 60°-70° | 349.6 | 4.7 |
| 70°-80° | 180.1 | 2.4 |
| 80°-90° | 45.5 | 0.6 |
| 90°-100° | 320.7 | 4.3 |
| 100°-110° | 912.7 | 12.3 |
| 110°-120° | 874.4 | 11.8 |
| 120°-130° | 692.1 | 9.3 |
| 130°-140° | 555.5 | 7.5 |
| 140°-150° | 434.9 | 5.9 |
| 150°-160° | 318.2 | 4.3 |
| 160°-170° | 197.1 | 2.7 |
| 170°-180° | 66.9 | 0.9 |
| 0°-30° | 865.1 | 11.7 |
| 0°-40° | 1413.8 | 19.1 |
| 0°-60° | 2461.5 | 33.2 |
| 0°-90° | 3036.7 | 41.0 |
| 90°-120° | 2107.9 | 28.4 |
| 90°-150° | 3790.4 | 51.2 |
| 90°-180° | 4373.0 | 59.0 |
| 0°-180° | 7409.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1113 | 1113 | 1113 | 1113 | 1113 | |
| 5° | 1117 | 1106 | 1110 | 1106 | 1106 | 106 |
| 15° | 1075 | 1066 | 1075 | 1074 | 1074 | 303 |
| 25° | 992 | 985 | 999 | 996 | 996 | 457 |
| 35° | 873 | 871 | 886 | 880 | 880 | 546 |
| 45° | 727 | 725 | 732 | 723 | 721 | 560 |
| 55° | 556 | 549 | 549 | 541 | 541 | 496 |
| 65° | 361 | 352 | 353 | 350 | 350 | 357 |
| 75° | 156 | 163 | 172 | 173 | 173 | 168 |
| 85° | 23 | 35 | 41 | 42 | 41 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | 2 |
| 95° | 35 | 138 | 621 | 215 | 132 | 40 |
| 105° | 142 | 215 | 930 | 1643 | 1562 | 150 |
| 115° | 264 | 319 | 705 | 1494 | 1754 | 260 |
| 125° | 372 | 413 | 673 | 1117 | 1336 | 333 |
| 135° | 455 | 493 | 665 | 944 | 1067 | 351 |
| 145° | 537 | 564 | 670 | 817 | 890 | 335 |
| 155° | 613 | 627 | 686 | 738 | 768 | 283 |
| 165° | 677 | 680 | 695 | 710 | 720 | 190 |
| 175° | 709 | 705 | 703 | 698 | 693 | 67 |
| 180° | 704 | 704 | 704 | 704 | 704 | |

TEST NUMBER: P561636

CATALOG NUMBER: SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1112.7 | 1112.7 | 1112.7 | 1112.7 | 1112.7 |
| 2.5° | 1119.3 | 1109.6 | 1112.7 | 1110.1 | 1106.1 |
| 5° | 1116.8 | 1105.7 | 1109.6 | 1106.5 | 1105.5 |
| 7.5° | 1108.8 | 1097.7 | 1102.8 | 1100.7 | 1099.7 |
| 10° | 1101.4 | 1090.3 | 1096.2 | 1094.1 | 1093.1 |
| 12.5° | 1091.5 | 1081.2 | 1088.0 | 1085.9 | 1085.7 |
| 15° | 1074.6 | 1065.5 | 1074.6 | 1074.5 | 1073.5 |
| 17.5° | 1053.3 | 1045.1 | 1054.8 | 1055.4 | 1054.8 |
| 20° | 1038.5 | 1029.4 | 1041.6 | 1040.6 | 1041.6 |
| 22.5° | 1020.4 | 1012.9 | 1025.9 | 1023.3 | 1024.3 |
| 25° | 992.1 | 985.1 | 999.4 | 996.3 | 996.3 |
| 27.5° | 958.8 | 953.7 | 969.3 | 966.0 | 966.0 |
| 30° | 936.5 | 931.5 | 947.8 | 943.7 | 943.7 |
| 32.5° | 911.8 | 908.4 | 923.9 | 919.0 | 919.0 |
| 35° | 872.6 | 870.6 | 886.0 | 879.8 | 879.8 |
| 37.5° | 832.2 | 830.4 | 844.4 | 836.9 | 834.5 |
| 40° | 802.6 | 801.6 | 813.9 | 805.7 | 805.7 |
| 42.5° | 772.9 | 771.9 | 782.6 | 772.7 | 772.7 |
| 45° | 727.4 | 725.4 | 732.5 | 723.2 | 721.2 |
| 47.5° | 677.7 | 675.7 | 680.2 | 670.1 | 669.1 |
| 50° | 643.9 | 641.9 | 643.9 | 634.6 | 633.6 |
| 52.5° | 609.3 | 605.7 | 606.0 | 596.7 | 596.5 |
| 55° | 556.3 | 549.3 | 549.1 | 540.9 | 540.9 |
| 57.5° | 500.3 | 491.0 | 491.8 | 484.8 | 483.8 |
| 60° | 461.6 | 451.5 | 452.3 | 446.1 | 445.1 |
| 62.5° | 423.6 | 412.0 | 414.4 | 407.4 | 407.2 |
| 65° | 360.6 | 352.5 | 353.4 | 350.3 | 350.3 |
| 67.5° | 300.0 | 292.6 | 298.0 | 295.5 | 295.3 |
| 70° | 255.5 | 250.5 | 257.6 | 257.5 | 256.5 |
| 72.5° | 214.3 | 214.1 | 222.9 | 223.0 | 223.6 |
| 75° | 155.6 | 162.6 | 172.1 | 173.1 | 173.1 |
| 77.5° | 103.9 | 116.3 | 126.7 | 127.1 | 126.9 |
| 80° | 74.2 | 88.3 | 97.9 | 99.9 | 98.9 |
| 82.5° | 50.3 | 65.2 | 73.1 | 75.2 | 74.2 |
| 85° | 22.7 | 34.8 | 41.2 | 42.2 | 41.2 |
| 87.5° | 6.6 | 13.8 | 16.5 | 16.4 | 14.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 10.7 | 56.8 | 131.7 | 38.3 | 28.9 |
| 95° | 34.8 | 138.2 | 620.9 | 214.9 | 132.5 |
| 97.5° | 64.0 | 161.8 | 956.3 | 684.3 | 468.9 |
| 100° | 84.3 | 175.9 | 1029.1 | 1042.4 | 802.9 |
| 102.5° | 106.8 | 191.1 | 1013.1 | 1334.3 | 1125.2 |
| 105° | 141.9 | 215.1 | 930.1 | 1642.9 | 1561.7 |
| 107.5° | 177.5 | 243.1 | 833.2 | 1729.9 | 1802.1 |
| 110° | 202.1 | 263.6 | 777.5 | 1696.6 | 1858.8 |



TEST NUMBER: P561636

CATALOG NUMBER: SQ4-PC3-100U-075D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 225.6 | 284.0 | 740.1 | 1617.8 | 1849.2 |
| 115° | 263.6 | 318.6 | 705.3 | 1494.1 | 1754.4 |
| 117.5° | 297.1 | 348.6 | 684.6 | 1358.7 | 1634.5 |
| 120° | 323.9 | 367.0 | 682.5 | 1281.4 | 1545.7 |
| 122.5° | 345.3 | 388.4 | 677.2 | 1213.5 | 1459.0 |
| 125° | 372.0 | 412.6 | 673.1 | 1117.1 | 1335.6 |
| 127.5° | 401.2 | 439.2 | 671.0 | 1059.4 | 1239.5 |
| 130° | 416.2 | 454.1 | 667.8 | 1019.3 | 1176.3 |
| 132.5° | 432.3 | 469.2 | 667.8 | 988.0 | 1132.4 |
| 135° | 455.0 | 493.0 | 665.1 | 943.6 | 1066.6 |
| 137.5° | 476.4 | 513.3 | 664.8 | 906.0 | 1012.3 |
| 140° | 492.5 | 530.4 | 663.8 | 874.9 | 976.9 |
| 142.5° | 510.7 | 542.3 | 667.0 | 850.0 | 941.6 |
| 145° | 536.6 | 564.1 | 670.5 | 816.7 | 889.9 |
| 147.5° | 558.9 | 585.5 | 676.4 | 783.0 | 846.3 |
| 150° | 578.1 | 596.4 | 678.5 | 771.8 | 816.3 |
| 152.5° | 593.1 | 612.5 | 680.6 | 756.8 | 798.1 |
| 155° | 612.9 | 627.3 | 686.5 | 738.1 | 768.2 |
| 157.5° | 637.5 | 646.2 | 687.9 | 729.6 | 751.0 |
| 160° | 650.4 | 656.9 | 693.2 | 723.1 | 741.4 |
| 162.5° | 657.9 | 665.5 | 694.3 | 717.6 | 731.8 |
| 165° | 677.2 | 679.8 | 694.6 | 709.5 | 720.0 |
| 167.5° | 690.3 | 687.9 | 700.7 | 707.5 | 711.7 |
| 170° | 694.6 | 693.2 | 698.6 | 700.0 | 705.3 |
| 172.5° | 704.2 | 699.7 | 701.8 | 697.9 | 702.0 |
| 175° | 709.3 | 705.3 | 702.6 | 698.4 | 693.2 |
| 177.5° | 711.4 | 705.1 | 701.8 | 697.5 | 698.6 |
| 180° | 703.9 | 703.9 | 703.9 | 703.9 | 703.9 |

(END OF REPORT)