

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: P563122

Luminaire Tested: **SQ4-PC3-150U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563122
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

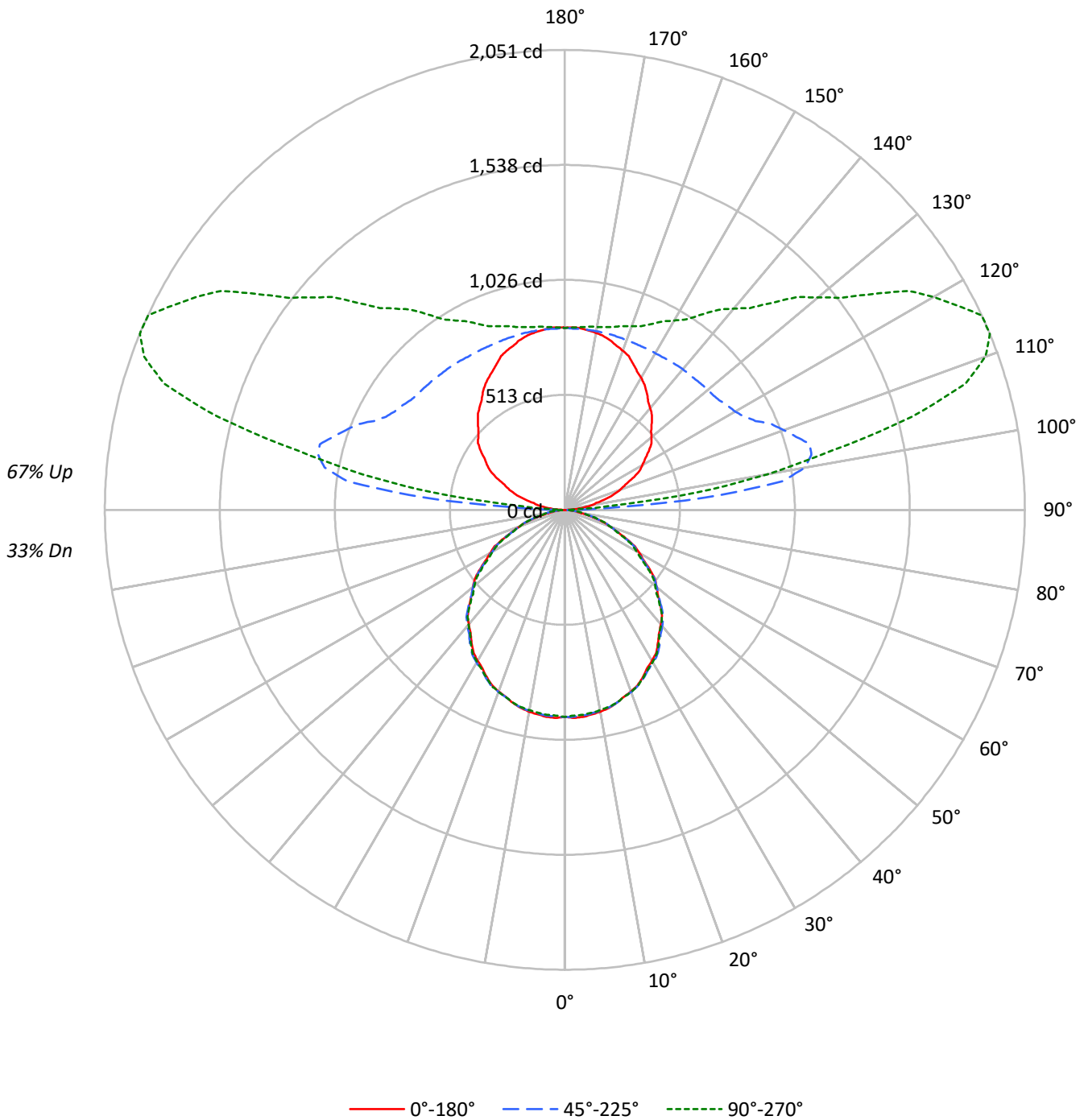
Lumens per Lamp: N/A
Luminaire Lumens: 7756.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 56 | 56 | 56 | 40 | 40 | 40 | 33 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 47 | 35 | 35 | 34 | 27 |
| 2 | 85 | 78 | 72 | 67 | 77 | 71 | 66 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 45 | 42 | 38 | 35 | 33 | 28 | 26 | 24 | 19 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 54 | 46 | 40 | 58 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |
| 6 | 60 | 48 | 40 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 26 | 27 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 55 | 43 | 36 | 30 | 50 | 39 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 13 | 10 |
| 9 | 48 | 36 | 28 | 24 | 43 | 33 | 26 | 22 | 26 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8519 | 8519 | 8519 |
| 5° | 8584 | 8529 | 8497 |
| 10° | 8563 | 8523 | 8499 |
| 15° | 8518 | 8518 | 8511 |
| 20° | 8462 | 8487 | 8487 |
| 25° | 8382 | 8443 | 8417 |
| 30° | 8280 | 8380 | 8344 |
| 35° | 8157 | 8282 | 8224 |
| 40° | 8022 | 8136 | 8053 |
| 45° | 7877 | 7932 | 7809 |
| 50° | 7670 | 7670 | 7548 |
| 55° | 7427 | 7330 | 7221 |
| 60° | 7069 | 6927 | 6816 |
| 65° | 6534 | 6403 | 6346 |
| 70° | 5722 | 5767 | 5743 |
| 75° | 4602 | 5090 | 5119 |
| 80° | 3273 | 4314 | 4362 |
| 85° | 1990 | 3620 | 3620 |



TEST NUMBER: P563122

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 1.1 |
| 10°-20° | 250.8 | 3.2 |
| 20°-30° | 379.8 | 4.9 |
| 30°-40° | 455.3 | 5.9 |
| 40°-50° | 464.3 | 6.0 |
| 50°-60° | 405.3 | 5.2 |
| 60°-70° | 290.2 | 3.7 |
| 70°-80° | 149.4 | 1.9 |
| 80°-90° | 39.5 | 0.5 |
| 90°-100° | 377.3 | 4.9 |
| 100°-110° | 1020.1 | 13.2 |
| 110°-120° | 1072.5 | 13.8 |
| 120°-130° | 871.2 | 11.2 |
| 130°-140° | 683.3 | 8.8 |
| 140°-150° | 524.5 | 6.8 |
| 150°-160° | 377.2 | 4.9 |
| 160°-170° | 230.4 | 3.0 |
| 170°-180° | 77.7 | 1.0 |
| 0°-30° | 718.0 | 9.3 |
| 0°-40° | 1173.3 | 15.1 |
| 0°-60° | 2042.9 | 26.3 |
| 0°-90° | 2522.0 | 32.5 |
| 90°-120° | 2469.9 | 31.8 |
| 90°-150° | 4548.9 | 58.6 |
| 90°-180° | 5234.0 | 67.5 |
| 0°-180° | 7756.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 923 | 923 | 923 | 923 | 923 | |
| 5° | 927 | 918 | 921 | 918 | 918 | 88 |
| 15° | 892 | 884 | 892 | 892 | 891 | 251 |
| 25° | 823 | 818 | 829 | 827 | 827 | 379 |
| 35° | 724 | 723 | 735 | 730 | 730 | 453 |
| 45° | 604 | 602 | 608 | 600 | 598 | 465 |
| 55° | 462 | 456 | 456 | 449 | 449 | 412 |
| 65° | 299 | 293 | 293 | 291 | 291 | 296 |
| 75° | 129 | 135 | 143 | 144 | 144 | 140 |
| 85° | 19 | 29 | 34 | 35 | 34 | 26 |
| 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: P563122

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 923.4 | 923.4 | 923.4 | 923.4 | 923.4 |
| 2.5° | 928.9 | 920.9 | 923.4 | 921.3 | 918.0 |
| 5° | 926.9 | 917.7 | 920.9 | 918.3 | 917.5 |
| 7.5° | 920.2 | 911.0 | 915.2 | 913.5 | 912.7 |
| 10° | 914.0 | 904.8 | 909.8 | 908.0 | 907.2 |
| 12.5° | 905.8 | 897.3 | 902.9 | 901.2 | 901.0 |
| 15° | 891.8 | 884.3 | 891.8 | 891.8 | 891.0 |
| 17.5° | 874.2 | 867.3 | 875.4 | 875.9 | 875.4 |
| 20° | 861.9 | 854.4 | 864.4 | 863.6 | 864.4 |
| 22.5° | 846.8 | 840.6 | 851.5 | 849.2 | 850.1 |
| 25° | 823.4 | 817.6 | 829.4 | 826.8 | 826.8 |
| 27.5° | 795.7 | 791.5 | 804.4 | 801.7 | 801.7 |
| 30° | 777.2 | 773.1 | 786.6 | 783.2 | 783.2 |
| 32.5° | 756.7 | 753.9 | 766.8 | 762.7 | 762.7 |
| 35° | 724.2 | 722.6 | 735.3 | 730.2 | 730.2 |
| 37.5° | 690.7 | 689.2 | 700.8 | 694.6 | 692.6 |
| 40° | 666.1 | 665.2 | 675.5 | 668.6 | 668.6 |
| 42.5° | 641.5 | 640.6 | 649.5 | 641.3 | 641.3 |
| 45° | 603.7 | 602.0 | 607.9 | 600.2 | 598.5 |
| 47.5° | 562.4 | 560.8 | 564.5 | 556.1 | 555.3 |
| 50° | 534.4 | 532.7 | 534.4 | 526.7 | 525.9 |
| 52.5° | 505.7 | 502.7 | 502.9 | 495.2 | 495.1 |
| 55° | 461.7 | 455.9 | 455.7 | 448.9 | 448.9 |
| 57.5° | 415.2 | 407.5 | 408.2 | 402.4 | 401.5 |
| 60° | 383.1 | 374.7 | 375.4 | 370.2 | 369.4 |
| 62.5° | 351.6 | 341.9 | 343.9 | 338.1 | 337.9 |
| 65° | 299.3 | 292.6 | 293.3 | 290.7 | 290.7 |
| 67.5° | 249.0 | 242.8 | 247.3 | 245.2 | 245.1 |
| 70° | 212.1 | 207.9 | 213.8 | 213.7 | 212.9 |
| 72.5° | 177.8 | 177.7 | 185.0 | 185.0 | 185.5 |
| 75° | 129.1 | 135.0 | 142.8 | 143.6 | 143.6 |
| 77.5° | 86.2 | 96.6 | 105.2 | 105.5 | 105.3 |
| 80° | 61.6 | 73.3 | 81.2 | 82.9 | 82.1 |
| 82.5° | 41.7 | 54.1 | 60.7 | 62.4 | 61.6 |
| 85° | 18.8 | 28.8 | 34.2 | 35.0 | 34.2 |
| 87.5° | 5.8 | 12.5 | 16.0 | 16.1 | 14.6 |
| 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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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)