

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: P523944

Luminaire Tested: **SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523944
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9210.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

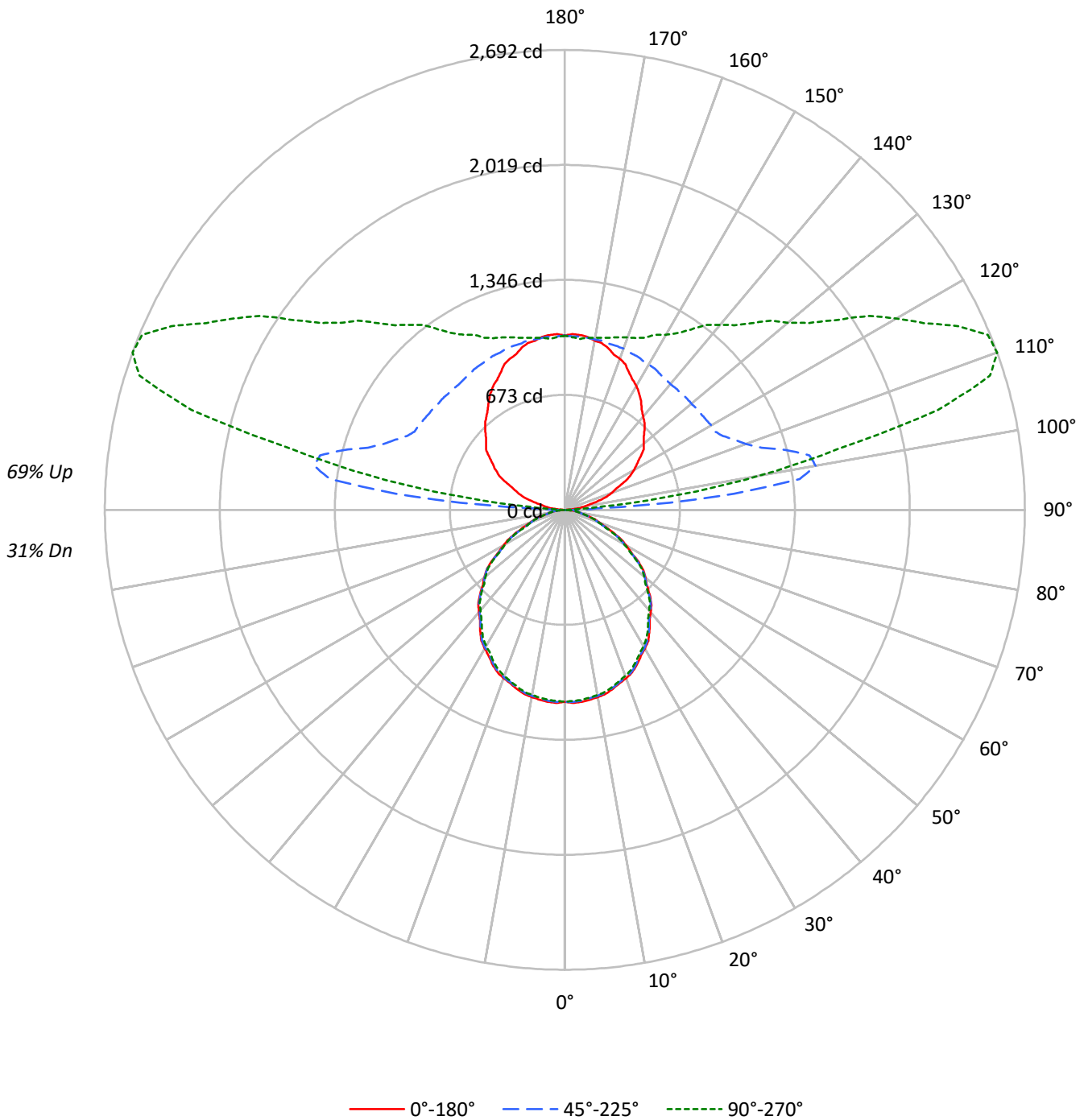
Input Watts (W): 82.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)

Luminous Intensity Polar Plot





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CATALOG NUMBER: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)

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 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2 | 85 | 78 | 72 | 68 | 77 | 71 | 66 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 22 |
| 3 | 78 | 69 | 62 | 56 | 70 | 62 | 56 | 51 | 50 | 45 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 |
| 4 | 71 | 61 | 53 | 47 | 64 | 55 | 49 | 43 | 44 | 39 | 36 | 34 | 31 | 28 | 24 | 22 | 21 | 16 |
| 5 | 65 | 54 | 46 | 41 | 58 | 49 | 42 | 37 | 39 | 34 | 31 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |
| 6 | 60 | 48 | 41 | 35 | 54 | 44 | 37 | 32 | 35 | 30 | 27 | 27 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 55 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 32 | 27 | 23 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 32 | 27 | 46 | 36 | 29 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 14 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 26 | 22 | 27 | 22 | 18 | 21 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 44 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 24 | 20 | 16 | 19 | 16 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10374 | 10374 | 10374 |
| 5° | 10450 | 10387 | 10350 |
| 10° | 10433 | 10359 | 10313 |
| 15° | 10364 | 10307 | 10251 |
| 20° | 10295 | 10237 | 10159 |
| 25° | 10173 | 10103 | 10002 |
| 30° | 9984 | 9931 | 9805 |
| 35° | 9723 | 9656 | 9534 |
| 40° | 9412 | 9352 | 9246 |
| 45° | 9154 | 9090 | 9000 |
| 50° | 8826 | 8770 | 8685 |
| 55° | 8369 | 8258 | 8196 |
| 60° | 7619 | 7401 | 7364 |
| 65° | 6713 | 6434 | 6412 |
| 70° | 5794 | 5557 | 5557 |
| 75° | 4987 | 4919 | 4848 |
| 80° | 4399 | 4452 | 4346 |
| 85° | 3440 | 3758 | 3758 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.3 | 1.2 |
| 10°-20° | 303.6 | 3.3 |
| 20°-30° | 454.7 | 4.9 |
| 30°-40° | 533.4 | 5.8 |
| 40°-50° | 535.0 | 5.8 |
| 50°-60° | 456.4 | 5.0 |
| 60°-70° | 297.7 | 3.2 |
| 70°-80° | 149.4 | 1.6 |
| 80°-90° | 41.3 | 0.4 |
| 90°-100° | 464.5 | 5.0 |
| 100°-110° | 1321.7 | 14.4 |
| 110°-120° | 1266.3 | 13.7 |
| 120°-130° | 1002.2 | 10.9 |
| 130°-140° | 804.5 | 8.7 |
| 140°-150° | 629.8 | 6.8 |
| 150°-160° | 460.8 | 5.0 |
| 160°-170° | 285.4 | 3.1 |
| 170°-180° | 96.9 | 1.1 |
| 0°-30° | 864.6 | 9.4 |
| 0°-40° | 1398.0 | 15.2 |
| 0°-60° | 2389.5 | 25.9 |
| 0°-90° | 2877.9 | 31.2 |
| 90°-120° | 3052.5 | 33.1 |
| 90°-150° | 5489.0 | 59.6 |
| 90°-180° | 6332.0 | 68.8 |
| 0°-180° | 9210.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1124 | 1124 | 1124 | 1124 | 1124 | |
| 5° | 1128 | 1118 | 1122 | 1118 | 1118 | 107 |
| 15° | 1085 | 1074 | 1079 | 1075 | 1073 | 306 |
| 25° | 999 | 988 | 992 | 984 | 982 | 460 |
| 35° | 863 | 855 | 857 | 848 | 846 | 539 |
| 45° | 702 | 697 | 697 | 690 | 690 | 540 |
| 55° | 520 | 518 | 513 | 510 | 510 | 462 |
| 65° | 308 | 302 | 295 | 293 | 294 | 307 |
| 75° | 140 | 140 | 138 | 137 | 136 | 152 |
| 85° | 32 | 35 | 36 | 36 | 36 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 50 | 200 | 899 | 311 | 192 | 58 |
| 105° | 205 | 312 | 1347 | 2379 | 2262 | 217 |
| 115° | 382 | 461 | 1021 | 2164 | 2541 | 376 |
| 125° | 539 | 598 | 975 | 1618 | 1934 | 482 |
| 135° | 659 | 714 | 963 | 1366 | 1545 | 508 |
| 145° | 777 | 817 | 971 | 1183 | 1289 | 485 |
| 155° | 888 | 908 | 994 | 1069 | 1112 | 410 |
| 165° | 981 | 984 | 1006 | 1028 | 1043 | 276 |
| 175° | 1027 | 1022 | 1018 | 1012 | 1004 | 97 |
| 180° | 1019 | 1019 | 1019 | 1019 | 1019 | |



TEST NUMBER: P523944

CATALOG NUMBER: SQ4-PP3-150U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1124.4 | 1124.4 | 1124.4 | 1124.4 | 1124.4 |
| 2.5° | 1131.5 | 1122.3 | 1124.4 | 1122.7 | 1118.1 |
| 5° | 1128.3 | 1117.8 | 1121.5 | 1117.5 | 1117.5 |
| 7.5° | 1120.7 | 1109.1 | 1112.8 | 1108.8 | 1108.6 |
| 10° | 1113.6 | 1102.0 | 1105.7 | 1101.7 | 1100.8 |
| 12.5° | 1103.3 | 1091.8 | 1096.2 | 1091.5 | 1091.3 |
| 15° | 1085.0 | 1074.4 | 1079.1 | 1075.1 | 1073.2 |
| 17.5° | 1064.3 | 1052.7 | 1058.4 | 1052.8 | 1052.1 |
| 20° | 1048.5 | 1037.0 | 1042.6 | 1034.7 | 1034.7 |
| 22.5° | 1029.6 | 1018.0 | 1024.5 | 1014.2 | 1014.2 |
| 25° | 999.3 | 987.7 | 992.4 | 983.5 | 982.5 |
| 27.5° | 963.2 | 951.8 | 956.7 | 946.6 | 946.4 |
| 30° | 937.2 | 926.6 | 932.2 | 921.4 | 920.4 |
| 32.5° | 908.8 | 899.0 | 903.1 | 892.2 | 891.2 |
| 35° | 863.3 | 854.6 | 857.3 | 847.5 | 846.5 |
| 37.5° | 815.4 | 806.5 | 809.7 | 801.2 | 800.8 |
| 40° | 781.5 | 775.7 | 776.5 | 769.6 | 767.7 |
| 42.5° | 749.9 | 743.4 | 744.2 | 737.3 | 736.9 |
| 45° | 701.6 | 696.8 | 696.7 | 689.8 | 689.8 |
| 47.5° | 650.4 | 646.7 | 645.7 | 640.0 | 639.8 |
| 50° | 614.9 | 612.0 | 611.0 | 606.0 | 605.1 |
| 52.5° | 577.9 | 576.5 | 573.1 | 569.0 | 568.8 |
| 55° | 520.3 | 518.4 | 513.4 | 510.4 | 509.5 |
| 57.5° | 457.8 | 454.0 | 448.4 | 444.1 | 444.8 |
| 60° | 412.9 | 409.1 | 401.1 | 399.1 | 399.1 |
| 62.5° | 369.5 | 364.9 | 356.9 | 354.2 | 355.8 |
| 65° | 307.5 | 301.7 | 294.7 | 292.7 | 293.7 |
| 67.5° | 251.1 | 245.9 | 238.3 | 238.3 | 237.5 |
| 70° | 214.8 | 211.9 | 206.0 | 206.0 | 206.0 |
| 72.5° | 182.5 | 181.2 | 176.8 | 176.8 | 176.0 |
| 75° | 139.9 | 139.9 | 138.0 | 137.0 | 136.0 |
| 77.5° | 104.9 | 105.2 | 104.3 | 103.2 | 101.5 |
| 80° | 82.8 | 84.7 | 83.8 | 82.8 | 81.8 |
| 82.5° | 62.3 | 64.2 | 64.1 | 62.3 | 62.1 |
| 85° | 32.5 | 35.4 | 35.5 | 35.5 | 35.5 |
| 87.5° | 8.7 | 11.8 | 12.6 | 12.6 | 13.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 15.5 | 82.2 | 190.7 | 55.5 | 41.9 |
| 95° | 50.4 | 200.1 | 899.2 | 311.2 | 191.9 |
| 97.5° | 92.6 | 234.4 | 1384.9 | 991.0 | 679.1 |
| 100° | 122.1 | 254.7 | 1490.3 | 1509.6 | 1162.8 |
| 102.5° | 154.7 | 276.7 | 1467.1 | 1932.3 | 1629.5 |
| 105° | 205.4 | 311.5 | 1346.9 | 2379.1 | 2261.7 |
| 107.5° | 257.0 | 352.1 | 1206.6 | 2505.1 | 2609.7 |
| 110° | 292.6 | 381.7 | 1126.0 | 2456.9 | 2691.9 |

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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 326.7 | 411.3 | 1071.7 | 2342.9 | 2677.9 |
| 115° | 381.8 | 461.4 | 1021.3 | 2163.6 | 2540.7 |
| 117.5° | 430.2 | 504.9 | 991.5 | 1967.6 | 2367.1 |
| 120° | 469.0 | 531.5 | 988.4 | 1855.6 | 2238.4 |
| 122.5° | 500.0 | 562.5 | 980.6 | 1757.3 | 2112.8 |
| 125° | 538.8 | 597.5 | 974.8 | 1617.7 | 1934.1 |
| 127.5° | 581.0 | 636.0 | 971.7 | 1534.2 | 1795.0 |
| 130° | 602.7 | 657.7 | 967.1 | 1476.1 | 1703.5 |
| 132.5° | 626.0 | 679.4 | 967.1 | 1430.7 | 1639.9 |
| 135° | 658.9 | 713.9 | 963.2 | 1366.5 | 1544.6 |
| 137.5° | 689.9 | 743.4 | 962.8 | 1312.0 | 1465.9 |
| 140° | 713.2 | 768.1 | 961.3 | 1266.9 | 1414.7 |
| 142.5° | 739.5 | 785.4 | 965.9 | 1230.9 | 1363.6 |
| 145° | 777.1 | 816.9 | 970.9 | 1182.7 | 1288.8 |
| 147.5° | 809.3 | 848.0 | 979.5 | 1133.9 | 1225.6 |
| 150° | 837.2 | 863.7 | 982.6 | 1117.8 | 1182.2 |
| 152.5° | 858.9 | 887.0 | 985.7 | 1095.9 | 1155.8 |
| 155° | 887.6 | 908.5 | 994.2 | 1068.8 | 1112.4 |
| 157.5° | 923.3 | 935.8 | 996.1 | 1056.5 | 1087.6 |
| 160° | 941.9 | 951.3 | 1003.9 | 1047.1 | 1073.7 |
| 162.5° | 952.7 | 963.7 | 1005.4 | 1039.2 | 1059.7 |
| 165° | 980.6 | 984.4 | 1005.8 | 1027.5 | 1042.6 |
| 167.5° | 999.6 | 996.2 | 1014.7 | 1024.6 | 1030.6 |
| 170° | 1005.8 | 1003.9 | 1011.6 | 1013.7 | 1021.3 |
| 172.5° | 1019.8 | 1013.3 | 1016.3 | 1010.6 | 1016.7 |
| 175° | 1027.1 | 1021.5 | 1017.5 | 1011.5 | 1003.9 |
| 177.5° | 1030.2 | 1021.1 | 1016.3 | 1010.1 | 1011.6 |
| 180° | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 |

(END OF REPORT)