

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: P519201

Luminaire Tested: **SQ4-WB-075U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519201
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

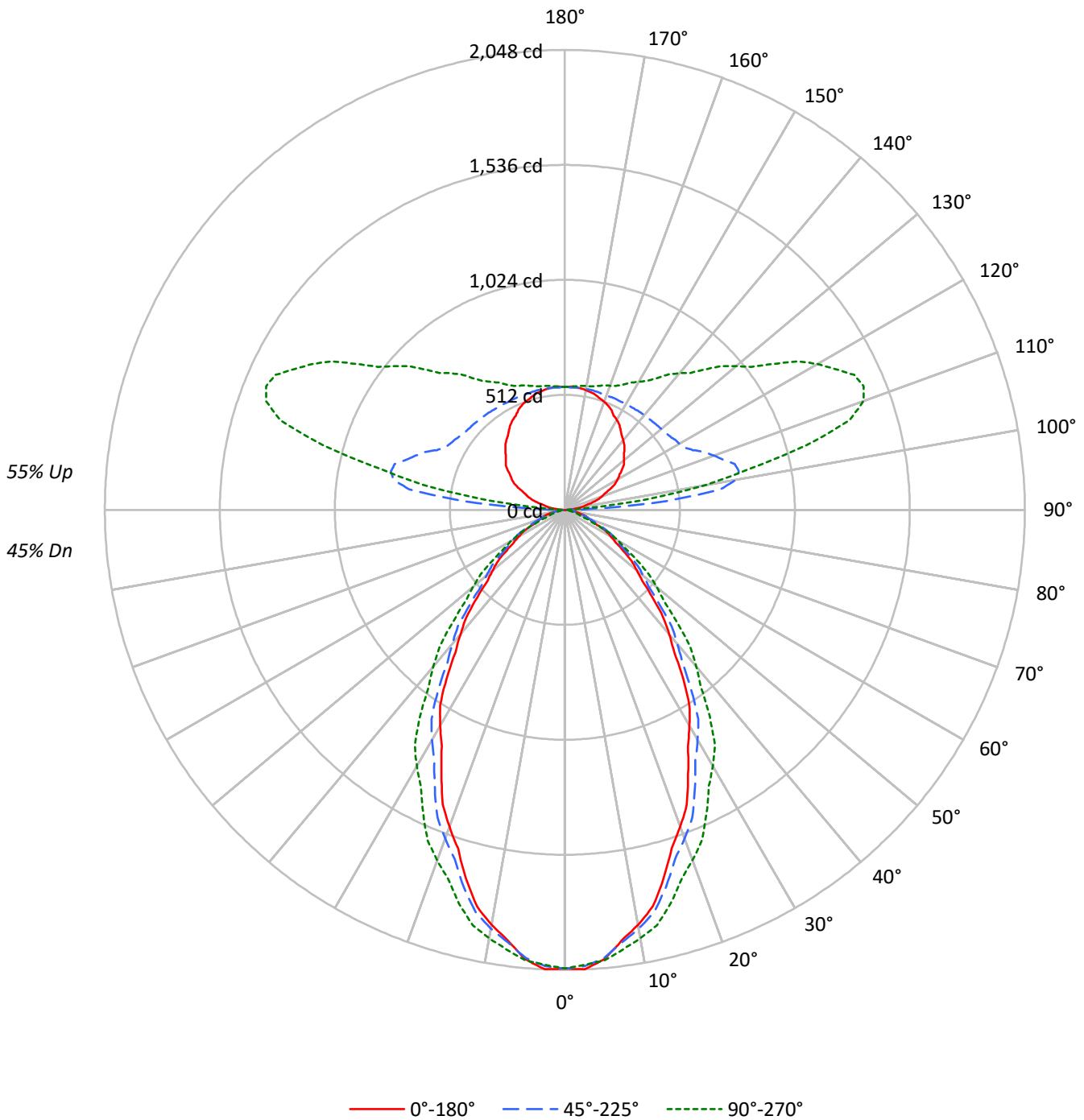
Lumens per Lamp: N/A
Luminaire Lumens: 6551.1 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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



TEST NUMBER: P519201
CATALOG NUMBER: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P519201

CATALOG NUMBER: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6

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 | 66 | 66 | 66 | 52 | 52 | 52 | 45 |
| 1 | 98 | 94 | 90 | 87 | 90 | 86 | 83 | 81 | 72 | 70 | 68 | 59 | 58 | 57 | 47 | 47 | 46 | 40 |
| 2 | 90 | 83 | 78 | 73 | 82 | 77 | 72 | 68 | 65 | 61 | 58 | 53 | 51 | 49 | 43 | 42 | 40 | 36 |
| 3 | 83 | 74 | 67 | 62 | 76 | 69 | 63 | 58 | 58 | 54 | 50 | 48 | 45 | 43 | 39 | 37 | 36 | 31 |
| 4 | 76 | 66 | 59 | 54 | 70 | 61 | 55 | 50 | 52 | 48 | 44 | 44 | 40 | 38 | 36 | 34 | 32 | 28 |
| 5 | 70 | 60 | 52 | 47 | 65 | 55 | 49 | 44 | 47 | 42 | 39 | 40 | 36 | 33 | 33 | 30 | 28 | 25 |
| 6 | 65 | 54 | 47 | 41 | 60 | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 33 | 30 | 30 | 28 | 26 | 23 |
| 7 | 61 | 49 | 42 | 37 | 56 | 46 | 39 | 35 | 39 | 34 | 31 | 34 | 30 | 27 | 28 | 25 | 23 | 21 |
| 8 | 56 | 45 | 38 | 33 | 52 | 42 | 36 | 31 | 36 | 31 | 28 | 31 | 27 | 24 | 26 | 23 | 21 | 19 |
| 9 | 53 | 41 | 34 | 29 | 49 | 39 | 32 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 |
| 10 | 49 | 38 | 31 | 27 | 46 | 36 | 30 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 23 | 20 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12562 | 12562 | 12562 |
| 5° | 12406 | 12362 | 12434 |
| 10° | 11721 | 11827 | 12102 |
| 15° | 10820 | 11071 | 11568 |
| 20° | 9826 | 10195 | 10870 |
| 25° | 8813 | 9294 | 10127 |
| 30° | 7880 | 8396 | 9357 |
| 35° | 6891 | 7389 | 8445 |
| 40° | 5800 | 6260 | 7311 |
| 45° | 4787 | 5200 | 6104 |
| 50° | 3996 | 4357 | 5085 |
| 55° | 3393 | 3738 | 4199 |
| 60° | 2899 | 3241 | 3351 |
| 65° | 2308 | 2726 | 2166 |
| 70° | 2047 | 2127 | 1322 |
| 75° | 1896 | 1725 | 810 |
| 80° | 1746 | 1587 | 698 |
| 85° | 1581 | 1454 | 572 |



TEST NUMBER: P519201

CATALOG NUMBER: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.3 | 2.9 |
| 10°-20° | 487.3 | 7.4 |
| 20°-30° | 631.2 | 9.6 |
| 30°-40° | 618.1 | 9.4 |
| 40°-50° | 473.1 | 7.2 |
| 50°-60° | 315.2 | 4.8 |
| 60°-70° | 172.0 | 2.6 |
| 70°-80° | 71.7 | 1.1 |
| 80°-90° | 21.7 | 0.3 |
| 90°-100° | 258.7 | 3.9 |
| 100°-110° | 711.8 | 10.9 |
| 110°-120° | 734.7 | 11.2 |
| 120°-130° | 588.6 | 9.0 |
| 130°-140° | 462.3 | 7.1 |
| 140°-150° | 354.3 | 5.4 |
| 150°-160° | 254.7 | 3.9 |
| 160°-170° | 155.8 | 2.4 |
| 170°-180° | 52.5 | 0.8 |
| 0°-30° | 1305.8 | 19.9 |
| 0°-40° | 1923.9 | 29.4 |
| 0°-60° | 2712.2 | 41.4 |
| 0°-90° | 2977.6 | 45.5 |
| 90°-120° | 1705.2 | 26.0 |
| 90°-150° | 3110.5 | 47.5 |
| 90°-180° | 3573.0 | 54.5 |
| 0°-180° | 6551.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2042 | 2042 | 2042 | 2042 | 2042 | |
| 5° | 2009 | 1989 | 2002 | 2007 | 2014 | 187 |
| 15° | 1699 | 1693 | 1739 | 1786 | 1817 | 475 |
| 25° | 1299 | 1302 | 1369 | 1429 | 1492 | 597 |
| 35° | 918 | 922 | 984 | 1050 | 1125 | 571 |
| 45° | 550 | 561 | 598 | 643 | 702 | 429 |
| 55° | 316 | 330 | 349 | 362 | 392 | 287 |
| 65° | 159 | 172 | 187 | 164 | 149 | 165 |
| 75° | 80 | 80 | 73 | 50 | 34 | 85 |
| 85° | 22 | 22 | 21 | 13 | 8 | 24 |
| 90° | 1 | 5 | 8 | 10 | 10 | 4 |
| 95° | 38 | 141 | 458 | 196 | 125 | 41 |
| 105° | 127 | 196 | 784 | 1194 | 1115 | 134 |
| 115° | 225 | 274 | 629 | 1253 | 1422 | 222 |
| 125° | 310 | 354 | 571 | 965 | 1131 | 277 |
| 135° | 375 | 416 | 554 | 781 | 884 | 289 |
| 145° | 433 | 463 | 546 | 665 | 717 | 272 |
| 155° | 490 | 506 | 543 | 598 | 615 | 225 |
| 165° | 530 | 537 | 545 | 567 | 571 | 149 |
| 175° | 548 | 550 | 546 | 553 | 552 | 52 |
| 180° | 548 | 548 | 548 | 548 | 548 | |

TEST NUMBER: P519201

CATALOG NUMBER: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2042.4 | 2042.4 | 2042.4 | 2042.4 | 2042.4 |
| 2.5° | 2047.5 | 2029.2 | 2033.8 | 2033.7 | 2028.1 |
| 5° | 2009.3 | 1989.1 | 2002.1 | 2006.8 | 2013.8 |
| 7.5° | 1934.7 | 1919.5 | 1943.1 | 1960.7 | 1974.9 |
| 10° | 1876.6 | 1863.5 | 1893.7 | 1919.2 | 1937.6 |
| 12.5° | 1809.3 | 1798.2 | 1835.6 | 1869.8 | 1893.9 |
| 15° | 1699.2 | 1693.1 | 1738.6 | 1785.9 | 1816.6 |
| 17.5° | 1581.4 | 1578.5 | 1630.7 | 1685.9 | 1725.2 |
| 20° | 1501.1 | 1500.3 | 1557.6 | 1615.1 | 1660.7 |
| 22.5° | 1420.1 | 1422.0 | 1482.3 | 1542.1 | 1594.0 |
| 25° | 1298.6 | 1302.1 | 1369.4 | 1429.1 | 1492.2 |
| 27.5° | 1186.2 | 1187.8 | 1257.4 | 1320.4 | 1387.7 |
| 30° | 1109.5 | 1113.9 | 1182.1 | 1247.3 | 1317.4 |
| 32.5° | 1032.8 | 1037.9 | 1104.7 | 1172.1 | 1243.6 |
| 35° | 917.7 | 922.1 | 984.0 | 1050.2 | 1124.7 |
| 37.5° | 799.1 | 805.0 | 860.0 | 922.6 | 995.9 |
| 40° | 722.3 | 731.1 | 779.7 | 838.7 | 910.5 |
| 42.5° | 648.5 | 659.4 | 704.4 | 760.4 | 825.2 |
| 45° | 550.3 | 560.8 | 597.8 | 643.0 | 701.7 |
| 47.5° | 465.7 | 477.8 | 506.2 | 545.1 | 595.3 |
| 50° | 417.6 | 429.0 | 455.3 | 484.1 | 531.4 |
| 52.5° | 375.3 | 386.7 | 410.1 | 432.3 | 472.7 |
| 55° | 316.4 | 329.5 | 348.6 | 361.8 | 391.6 |
| 57.5° | 268.0 | 280.6 | 295.7 | 301.7 | 319.8 |
| 60° | 235.7 | 249.7 | 263.5 | 262.8 | 272.4 |
| 62.5° | 206.3 | 218.2 | 231.9 | 222.4 | 223.0 |
| 65° | 158.6 | 171.8 | 187.3 | 163.7 | 148.8 |
| 67.5° | 128.2 | 131.0 | 147.0 | 114.1 | 96.4 |
| 70° | 113.8 | 113.8 | 118.3 | 88.4 | 73.5 |
| 72.5° | 100.2 | 100.2 | 96.1 | 71.9 | 56.3 |
| 75° | 79.8 | 79.8 | 72.6 | 49.8 | 34.1 |
| 77.5° | 61.5 | 60.8 | 55.6 | 37.2 | 24.7 |
| 80° | 49.3 | 49.3 | 44.8 | 29.4 | 19.7 |
| 82.5° | 38.5 | 38.5 | 34.8 | 22.9 | 14.7 |
| 85° | 22.4 | 22.4 | 20.6 | 13.3 | 8.1 |
| 87.5° | 8.1 | 8.8 | 8.8 | 6.4 | 5.7 |
| 90° | 1.2 | 4.6 | 8.2 | 10.5 | 10.5 |
| 92.5° | 16.1 | 68.8 | 119.3 | 45.8 | 37.6 |
| 95° | 38.5 | 141.2 | 457.5 | 195.6 | 124.9 |
| 97.5° | 62.8 | 156.6 | 698.2 | 537.9 | 379.5 |
| 100° | 80.5 | 166.1 | 773.8 | 781.0 | 637.2 |
| 102.5° | 97.3 | 177.4 | 793.4 | 969.0 | 837.0 |
| 105° | 127.2 | 195.7 | 784.3 | 1194.5 | 1114.6 |
| 107.5° | 155.7 | 218.2 | 739.7 | 1304.9 | 1328.6 |
| 110° | 176.2 | 233.3 | 706.1 | 1332.4 | 1414.5 |

TEST NUMBER: P519201

CATALOG NUMBER: SQ4-WB-075U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 194.9 | 250.1 | 672.5 | 1314.7 | 1439.7 |
| 115° | 225.2 | 274.3 | 629.1 | 1252.6 | 1421.5 |
| 117.5° | 254.2 | 299.4 | 601.5 | 1165.6 | 1356.6 |
| 120° | 271.9 | 315.3 | 589.4 | 1100.4 | 1297.8 |
| 122.5° | 287.8 | 331.2 | 581.0 | 1043.2 | 1230.6 |
| 125° | 310.4 | 353.8 | 570.7 | 965.4 | 1130.9 |
| 127.5° | 331.9 | 373.2 | 563.9 | 900.6 | 1045.7 |
| 130° | 343.1 | 385.3 | 560.2 | 862.0 | 994.4 |
| 132.5° | 356.2 | 398.4 | 557.4 | 828.1 | 947.7 |
| 135° | 374.6 | 415.7 | 554.4 | 780.8 | 883.5 |
| 137.5° | 391.9 | 430.0 | 551.8 | 742.6 | 827.2 |
| 140° | 405.0 | 440.4 | 550.9 | 717.2 | 793.6 |
| 142.5° | 416.2 | 448.8 | 549.0 | 694.5 | 760.0 |
| 145° | 433.0 | 462.7 | 546.2 | 665.2 | 716.6 |
| 147.5° | 451.0 | 476.5 | 544.8 | 639.3 | 680.4 |
| 150° | 462.2 | 485.0 | 543.9 | 625.1 | 657.1 |
| 152.5° | 472.4 | 493.4 | 542.9 | 612.9 | 639.3 |
| 155° | 490.2 | 506.2 | 542.7 | 597.9 | 615.1 |
| 157.5° | 503.0 | 516.0 | 542.7 | 585.7 | 597.6 |
| 160° | 512.4 | 522.6 | 542.7 | 579.1 | 588.2 |
| 162.5° | 519.8 | 528.3 | 543.6 | 573.4 | 580.7 |
| 165° | 529.9 | 536.7 | 545.0 | 567.3 | 570.7 |
| 167.5° | 536.9 | 542.1 | 546.2 | 562.1 | 563.0 |
| 170° | 541.5 | 545.0 | 546.2 | 560.2 | 560.2 |
| 172.5° | 545.3 | 546.9 | 546.2 | 557.4 | 556.5 |
| 175° | 548.5 | 549.7 | 546.2 | 553.2 | 552.0 |
| 177.5° | 549.5 | 549.5 | 545.7 | 551.3 | 549.5 |
| 180° | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 |

(END OF REPORT)