

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522013

Luminaire Tested: **SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522013
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

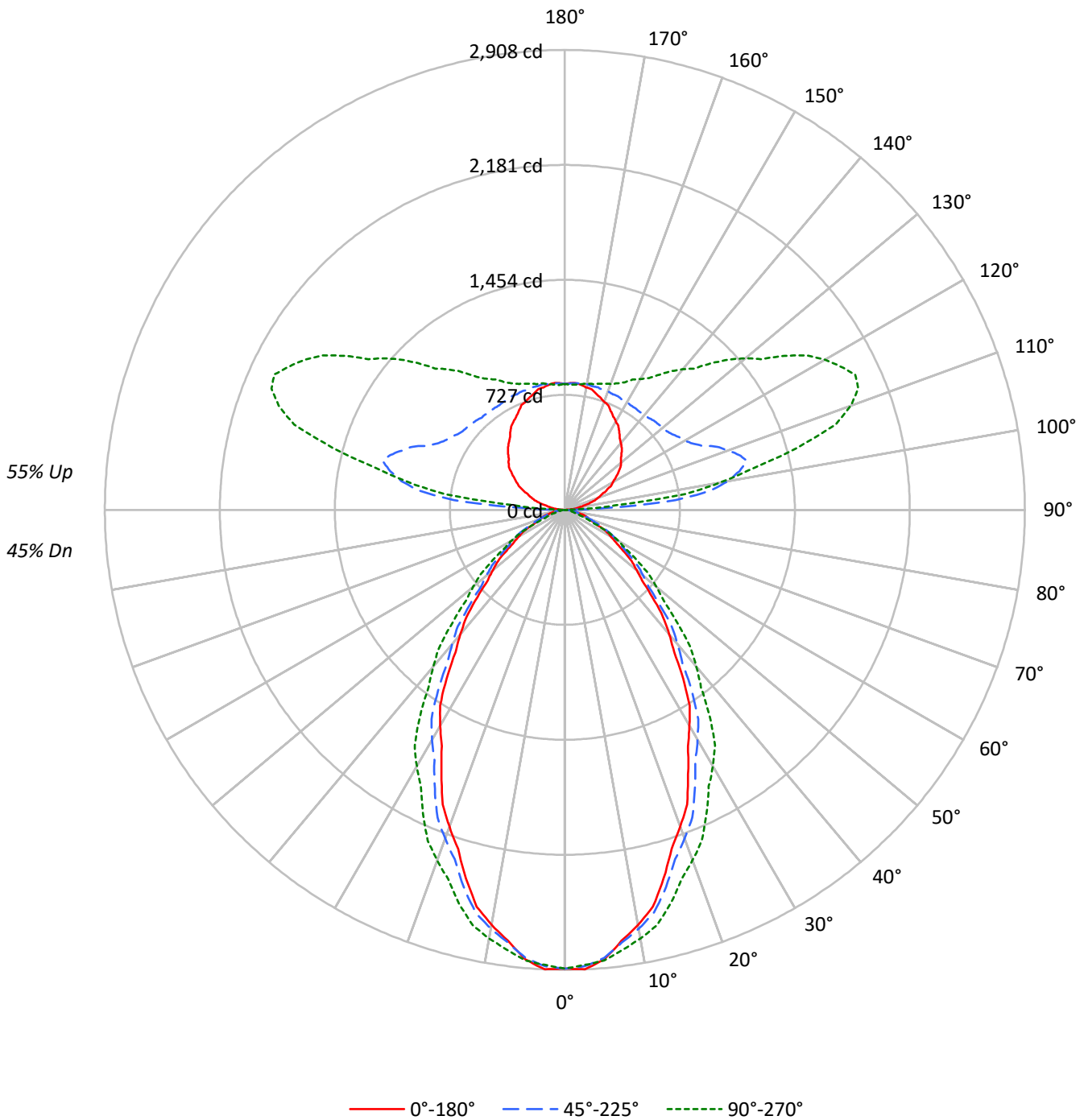
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9382.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 96.9
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: P522013
CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P522013

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 52 | 52 | 52 | 45 | | | | |
| 1 | 98 | 94 | 90 | 87 | 90 | 86 | 83 | 81 | 72 | 70 | 68 | 59 | 58 | 57 | 47 | 46 | 46 | 40 | | | | |
| 2 | 90 | 83 | 78 | 73 | 82 | 77 | 72 | 68 | 64 | 61 | 58 | 53 | 51 | 49 | 43 | 41 | 40 | 35 | | | | |
| 3 | 83 | 74 | 67 | 62 | 76 | 68 | 63 | 58 | 58 | 54 | 50 | 48 | 45 | 43 | 39 | 37 | 35 | 31 | | | | |
| 4 | 76 | 66 | 59 | 54 | 70 | 61 | 55 | 50 | 52 | 47 | 44 | 44 | 40 | 38 | 36 | 33 | 31 | 28 | | | | |
| 5 | 70 | 60 | 52 | 47 | 65 | 55 | 49 | 44 | 47 | 42 | 39 | 40 | 36 | 33 | 33 | 30 | 28 | 25 | | | | |
| 6 | 65 | 54 | 46 | 41 | 60 | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 33 | 30 | 30 | 27 | 25 | 22 | | | | |
| 7 | 61 | 49 | 42 | 36 | 56 | 46 | 39 | 34 | 39 | 34 | 31 | 33 | 30 | 27 | 28 | 25 | 23 | 20 | | | | |
| 8 | 56 | 45 | 38 | 33 | 52 | 42 | 35 | 31 | 36 | 31 | 28 | 31 | 27 | 24 | 26 | 23 | 21 | 19 | | | | |
| 9 | 53 | 41 | 34 | 29 | 49 | 39 | 32 | 28 | 33 | 28 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 17 | | | | |
| 10 | 49 | 38 | 31 | 27 | 46 | 36 | 29 | 25 | 31 | 26 | 23 | 27 | 23 | 20 | 22 | 20 | 18 | 16 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 26765 | 26765 | 26765 |
| 5° | 26431 | 26337 | 26490 |
| 10° | 24972 | 25199 | 25782 |
| 15° | 23052 | 23587 | 24645 |
| 20° | 20934 | 21721 | 23158 |
| 25° | 18776 | 19800 | 21575 |
| 30° | 16789 | 17887 | 19935 |
| 35° | 14681 | 15742 | 17993 |
| 40° | 12357 | 13337 | 15576 |
| 45° | 10198 | 11078 | 13005 |
| 50° | 8514 | 9281 | 10834 |
| 55° | 7227 | 7965 | 8948 |
| 60° | 6178 | 6905 | 7141 |
| 65° | 4919 | 5807 | 4613 |
| 70° | 4362 | 4532 | 2816 |
| 75° | 4039 | 3675 | 1725 |
| 80° | 3719 | 3379 | 1488 |
| 85° | 3366 | 3102 | 1217 |



TEST NUMBER: P522013

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 266.1 | 2.8 |
| 10°-20° | 692.1 | 7.4 |
| 20°-30° | 896.5 | 9.6 |
| 30°-40° | 877.9 | 9.4 |
| 40°-50° | 672.0 | 7.2 |
| 50°-60° | 447.8 | 4.8 |
| 60°-70° | 244.3 | 2.6 |
| 70°-80° | 101.8 | 1.1 |
| 80°-90° | 28.8 | 0.3 |
| 90°-100° | 410.4 | 4.4 |
| 100°-110° | 991.9 | 10.6 |
| 110°-120° | 1057.9 | 11.3 |
| 120°-130° | 856.8 | 9.1 |
| 130°-140° | 663.4 | 7.1 |
| 140°-150° | 506.1 | 5.4 |
| 150°-160° | 366.3 | 3.9 |
| 160°-170° | 225.6 | 2.4 |
| 170°-180° | 76.4 | 0.8 |
| 0°-30° | 1854.7 | 19.8 |
| 0°-40° | 2732.5 | 29.1 |
| 0°-60° | 3852.3 | 41.1 |
| 0°-90° | 4227.2 | 45.1 |
| 90°-120° | 2460.2 | 26.2 |
| 90°-150° | 4486.5 | 47.8 |
| 90°-180° | 5155.0 | 54.9 |
| 0°-180° | 9382.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2901 | 2901 | 2901 | 2901 | 2901 | |
| 5° | 2854 | 2825 | 2844 | 2850 | 2860 | 265 |
| 15° | 2413 | 2405 | 2469 | 2537 | 2580 | 674 |
| 25° | 1844 | 1849 | 1945 | 2030 | 2119 | 848 |
| 35° | 1304 | 1310 | 1398 | 1492 | 1598 | 810 |
| 45° | 782 | 796 | 849 | 913 | 997 | 610 |
| 55° | 449 | 468 | 495 | 514 | 556 | 407 |
| 65° | 225 | 244 | 266 | 232 | 211 | 234 |
| 75° | 113 | 113 | 103 | 71 | 48 | 121 |
| 85° | 32 | 32 | 29 | 19 | 12 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 40 | 205 | 703 | 457 | 320 | 45 |
| 105° | 158 | 274 | 1192 | 1542 | 1523 | 167 |
| 115° | 290 | 371 | 958 | 1816 | 2025 | 287 |
| 125° | 413 | 476 | 831 | 1444 | 1696 | 369 |
| 135° | 508 | 567 | 798 | 1139 | 1310 | 392 |
| 145° | 600 | 645 | 782 | 968 | 1044 | 375 |
| 155° | 688 | 718 | 792 | 857 | 889 | 318 |
| 165° | 760 | 772 | 803 | 815 | 826 | 215 |
| 175° | 804 | 801 | 804 | 798 | 796 | 76 |
| 180° | 796 | 796 | 796 | 796 | 796 | |

TEST NUMBER: P522013

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2901.0 | 2901.0 | 2901.0 | 2901.0 | 2901.0 |
| 2.5° | 2908.1 | 2882.2 | 2888.7 | 2888.6 | 2880.6 |
| 5° | 2853.9 | 2825.2 | 2843.7 | 2850.3 | 2860.2 |
| 7.5° | 2748.0 | 2726.3 | 2759.9 | 2784.8 | 2805.0 |
| 10° | 2665.5 | 2646.8 | 2689.7 | 2725.9 | 2752.0 |
| 12.5° | 2569.7 | 2554.1 | 2607.2 | 2655.8 | 2689.9 |
| 15° | 2413.4 | 2404.7 | 2469.4 | 2536.6 | 2580.2 |
| 17.5° | 2246.2 | 2241.9 | 2316.2 | 2394.6 | 2450.3 |
| 20° | 2132.1 | 2130.9 | 2212.3 | 2294.0 | 2358.7 |
| 22.5° | 2017.0 | 2019.8 | 2105.4 | 2190.3 | 2264.0 |
| 25° | 1844.4 | 1849.4 | 1945.0 | 2029.8 | 2119.4 |
| 27.5° | 1684.8 | 1687.1 | 1785.9 | 1875.4 | 1971.0 |
| 30° | 1575.9 | 1582.1 | 1679.0 | 1771.6 | 1871.2 |
| 32.5° | 1466.9 | 1474.1 | 1569.0 | 1664.7 | 1766.3 |
| 35° | 1303.5 | 1309.7 | 1397.7 | 1491.7 | 1597.5 |
| 37.5° | 1134.9 | 1143.4 | 1221.5 | 1310.4 | 1414.5 |
| 40° | 1026.0 | 1038.4 | 1107.4 | 1191.2 | 1293.3 |
| 42.5° | 921.1 | 936.5 | 1000.5 | 1080.0 | 1172.1 |
| 45° | 781.6 | 796.5 | 849.0 | 913.3 | 996.7 |
| 47.5° | 661.4 | 678.6 | 718.9 | 774.3 | 845.5 |
| 50° | 593.2 | 609.4 | 646.6 | 687.6 | 754.8 |
| 52.5° | 533.1 | 549.3 | 582.5 | 614.1 | 671.3 |
| 55° | 449.3 | 468.0 | 495.2 | 513.9 | 556.3 |
| 57.5° | 380.6 | 398.5 | 420.1 | 428.5 | 454.2 |
| 60° | 334.8 | 354.7 | 374.2 | 373.3 | 387.0 |
| 62.5° | 293.0 | 310.0 | 329.4 | 316.0 | 316.7 |
| 65° | 225.3 | 244.0 | 266.0 | 232.5 | 211.3 |
| 67.5° | 182.0 | 186.0 | 208.8 | 162.1 | 137.0 |
| 70° | 161.7 | 161.7 | 168.0 | 125.5 | 104.4 |
| 72.5° | 142.3 | 142.3 | 136.5 | 102.1 | 79.9 |
| 75° | 113.3 | 113.3 | 103.1 | 70.8 | 48.4 |
| 77.5° | 87.3 | 86.3 | 78.9 | 52.8 | 35.1 |
| 80° | 70.0 | 70.0 | 63.6 | 41.7 | 28.0 |
| 82.5° | 54.7 | 54.7 | 49.4 | 32.6 | 20.9 |
| 85° | 31.8 | 31.8 | 29.3 | 18.9 | 11.5 |
| 87.5° | 11.2 | 11.2 | 10.2 | 6.1 | 5.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 13.5 | 111.1 | 261.7 | 127.2 | 86.3 |
| 95° | 40.5 | 205.3 | 703.1 | 457.2 | 320.4 |
| 97.5° | 71.8 | 227.5 | 926.1 | 892.2 | 765.9 |
| 100° | 96.1 | 241.2 | 1048.8 | 1107.2 | 1003.3 |
| 102.5° | 119.0 | 253.6 | 1129.8 | 1286.2 | 1224.5 |
| 105° | 158.5 | 273.9 | 1192.1 | 1542.4 | 1522.6 |
| 107.5° | 197.3 | 297.9 | 1155.4 | 1748.0 | 1794.5 |
| 110° | 224.3 | 318.2 | 1096.0 | 1836.6 | 1924.0 |

TEST NUMBER: P522013

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 251.2 | 338.6 | 1043.4 | 1858.2 | 2007.6 |
| 115° | 290.0 | 370.8 | 957.8 | 1815.7 | 2025.1 |
| 117.5° | 328.5 | 404.6 | 907.5 | 1718.1 | 1963.4 |
| 120° | 354.1 | 425.0 | 875.1 | 1641.5 | 1898.7 |
| 122.5° | 381.1 | 446.7 | 854.9 | 1563.1 | 1816.4 |
| 125° | 413.1 | 475.8 | 831.3 | 1444.1 | 1696.3 |
| 127.5° | 444.8 | 503.8 | 814.8 | 1343.2 | 1564.8 |
| 130° | 463.7 | 521.4 | 809.4 | 1273.0 | 1490.6 |
| 132.5° | 481.2 | 541.6 | 801.3 | 1222.3 | 1407.0 |
| 135° | 507.5 | 566.9 | 797.6 | 1138.7 | 1310.2 |
| 137.5° | 532.5 | 592.2 | 785.8 | 1082.1 | 1211.4 |
| 140° | 551.4 | 605.8 | 785.8 | 1041.4 | 1160.1 |
| 142.5° | 570.3 | 624.7 | 779.0 | 1005.9 | 1106.1 |
| 145° | 600.3 | 644.8 | 782.4 | 967.9 | 1043.8 |
| 147.5° | 628.3 | 671.5 | 780.4 | 924.1 | 986.8 |
| 150° | 645.8 | 683.7 | 785.8 | 904.9 | 954.4 |
| 152.5° | 664.7 | 701.3 | 784.4 | 884.6 | 928.8 |
| 155° | 688.0 | 717.6 | 792.5 | 857.3 | 888.6 |
| 157.5° | 716.0 | 741.4 | 790.8 | 846.9 | 865.4 |
| 160° | 726.8 | 748.2 | 797.6 | 833.3 | 846.5 |
| 162.5° | 744.3 | 763.1 | 794.9 | 829.1 | 837.0 |
| 165° | 760.5 | 772.0 | 802.6 | 814.7 | 826.2 |
| 167.5° | 780.4 | 788.0 | 800.6 | 813.8 | 814.1 |
| 170° | 785.8 | 790.7 | 806.0 | 804.5 | 812.7 |
| 172.5° | 795.2 | 798.8 | 802.0 | 805.6 | 800.6 |
| 175° | 804.3 | 801.0 | 804.3 | 797.5 | 795.9 |
| 177.5° | 802.6 | 802.6 | 799.9 | 797.1 | 790.5 |
| 180° | 795.9 | 795.9 | 795.9 | 795.9 | 795.9 |

(END OF REPORT)