

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: P521994

Luminaire Tested: **SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521994
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

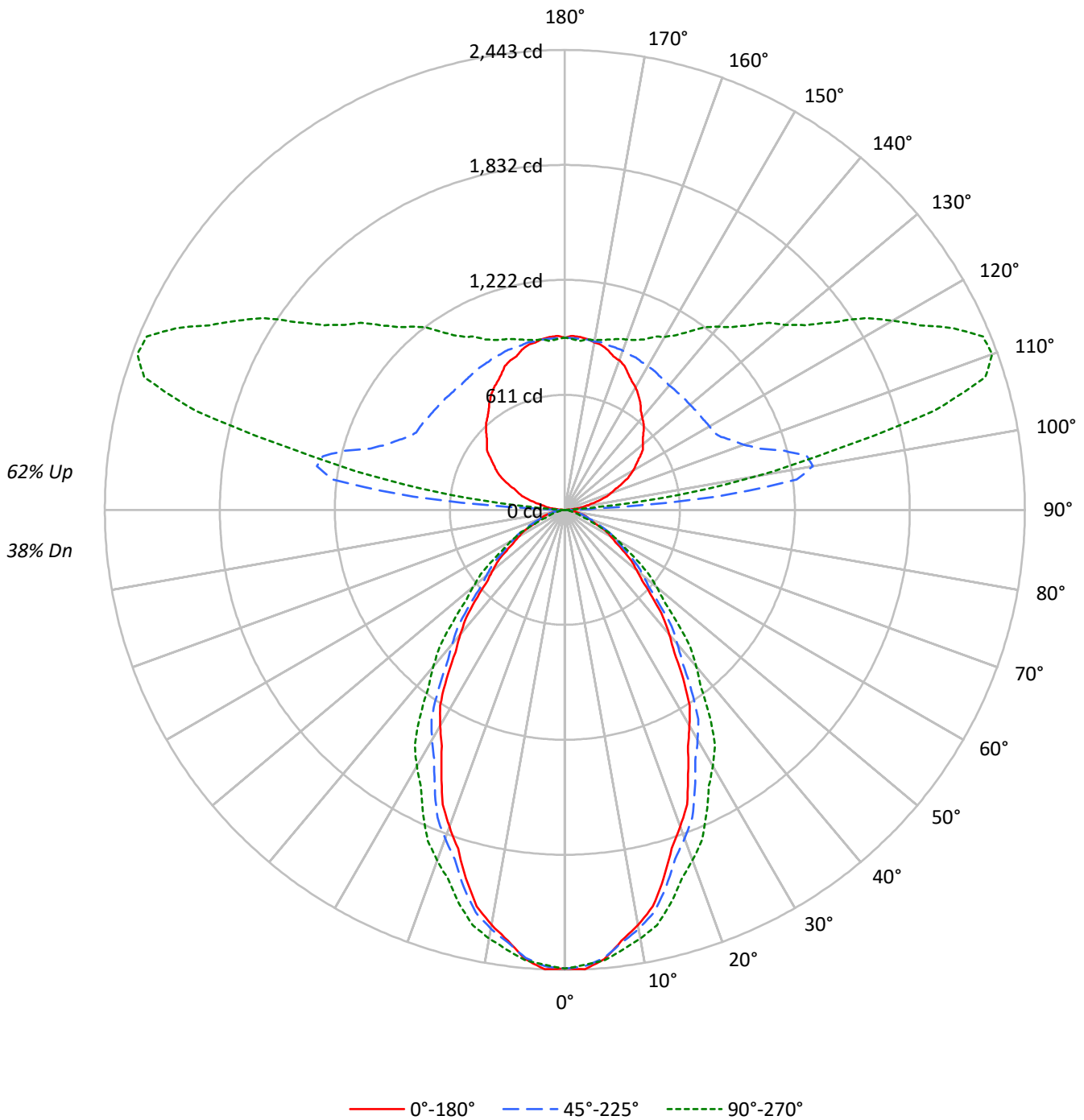
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9233.3 lumens
Efficiency: N/A
Efficacy: 110.3 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: Semi-Indirect

Input Watts (W): 83.7
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: P521994
CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521994

CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)

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 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 38 | | | | |
| 1 | 96 | 92 | 89 | 86 | 87 | 84 | 81 | 78 | 69 | 67 | 65 | 55 | 53 | 52 | 42 | 41 | 40 | 34 | | | | |
| 2 | 88 | 82 | 76 | 71 | 80 | 74 | 70 | 66 | 61 | 58 | 55 | 49 | 47 | 45 | 38 | 36 | 35 | 30 | | | | |
| 3 | 81 | 72 | 66 | 61 | 74 | 66 | 61 | 56 | 55 | 51 | 47 | 44 | 41 | 39 | 34 | 33 | 31 | 27 | | | | |
| 4 | 75 | 65 | 57 | 52 | 68 | 59 | 53 | 48 | 49 | 45 | 41 | 40 | 37 | 34 | 31 | 29 | 28 | 24 | | | | |
| 5 | 69 | 58 | 51 | 45 | 63 | 53 | 47 | 42 | 45 | 40 | 36 | 36 | 33 | 30 | 29 | 26 | 25 | 21 | | | | |
| 6 | 64 | 52 | 45 | 40 | 58 | 48 | 42 | 37 | 41 | 36 | 32 | 33 | 30 | 27 | 26 | 24 | 22 | 19 | | | | |
| 7 | 59 | 48 | 40 | 35 | 54 | 44 | 37 | 33 | 37 | 32 | 29 | 30 | 27 | 24 | 24 | 22 | 20 | 17 | | | | |
| 8 | 55 | 43 | 36 | 31 | 50 | 40 | 34 | 29 | 34 | 29 | 26 | 28 | 25 | 22 | 23 | 20 | 18 | 16 | | | | |
| 9 | 51 | 40 | 33 | 28 | 47 | 37 | 31 | 26 | 31 | 27 | 23 | 26 | 23 | 20 | 21 | 19 | 17 | 15 | | | | |
| 10 | 48 | 37 | 30 | 25 | 44 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 20 | 17 | 15 | 14 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 22482 | 22482 | 22482 |
| 5° | 22202 | 22122 | 22251 |
| 10° | 20975 | 21166 | 21657 |
| 15° | 19363 | 19813 | 20701 |
| 20° | 17584 | 18245 | 19453 |
| 25° | 15772 | 16632 | 18123 |
| 30° | 14102 | 15025 | 16745 |
| 35° | 12332 | 13223 | 15114 |
| 40° | 10379 | 11203 | 13083 |
| 45° | 8566 | 9306 | 10924 |
| 50° | 7152 | 7797 | 9100 |
| 55° | 6071 | 6690 | 7515 |
| 60° | 5189 | 5801 | 5997 |
| 65° | 4133 | 4879 | 3875 |
| 70° | 3663 | 3806 | 2366 |
| 75° | 3394 | 3087 | 1447 |
| 80° | 3124 | 2843 | 1249 |
| 85° | 2826 | 2604 | 1016 |



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CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.5 | 2.4 |
| 10°-20° | 581.4 | 6.3 |
| 20°-30° | 753.0 | 8.2 |
| 30°-40° | 737.4 | 8.0 |
| 40°-50° | 564.4 | 6.1 |
| 50°-60° | 376.1 | 4.1 |
| 60°-70° | 205.2 | 2.2 |
| 70°-80° | 85.5 | 0.9 |
| 80°-90° | 24.2 | 0.3 |
| 90°-100° | 416.8 | 4.5 |
| 100°-110° | 1186.1 | 12.8 |
| 110°-120° | 1136.4 | 12.3 |
| 120°-130° | 899.4 | 9.7 |
| 130°-140° | 721.9 | 7.8 |
| 140°-150° | 565.2 | 6.1 |
| 150°-160° | 413.5 | 4.5 |
| 160°-170° | 256.2 | 2.8 |
| 170°-180° | 86.9 | 0.9 |
| 0°-30° | 1557.9 | 16.9 |
| 0°-40° | 2295.3 | 24.9 |
| 0°-60° | 3235.8 | 35.0 |
| 0°-90° | 3550.8 | 38.5 |
| 90°-120° | 2739.4 | 29.7 |
| 90°-150° | 4925.9 | 53.3 |
| 90°-180° | 5682.0 | 61.5 |
| 0°-180° | 9233.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2437 | 2437 | 2437 | 2437 | 2437 | |
| 5° | 2397 | 2373 | 2389 | 2394 | 2402 | 223 |
| 15° | 2027 | 2020 | 2074 | 2131 | 2167 | 566 |
| 25° | 1549 | 1554 | 1634 | 1705 | 1780 | 712 |
| 35° | 1095 | 1100 | 1174 | 1253 | 1342 | 681 |
| 45° | 656 | 669 | 713 | 767 | 837 | 512 |
| 55° | 377 | 393 | 416 | 432 | 467 | 342 |
| 65° | 189 | 205 | 224 | 195 | 178 | 197 |
| 75° | 95 | 95 | 87 | 59 | 41 | 102 |
| 85° | 27 | 27 | 25 | 16 | 10 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 45 | 180 | 807 | 279 | 172 | 52 |
| 105° | 184 | 280 | 1209 | 2135 | 2030 | 195 |
| 115° | 343 | 414 | 916 | 1942 | 2280 | 337 |
| 125° | 484 | 536 | 875 | 1452 | 1736 | 433 |
| 135° | 591 | 641 | 864 | 1226 | 1386 | 456 |
| 145° | 697 | 733 | 871 | 1061 | 1157 | 436 |
| 155° | 796 | 815 | 892 | 959 | 998 | 368 |
| 165° | 880 | 883 | 903 | 922 | 936 | 247 |
| 175° | 922 | 917 | 913 | 908 | 901 | 87 |
| 180° | 915 | 915 | 915 | 915 | 915 | |



TEST NUMBER: P521994

CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2436.8 | 2436.8 | 2436.8 | 2436.8 | 2436.8 |
| 2.5° | 2442.7 | 2421.0 | 2426.5 | 2426.3 | 2419.6 |
| 5° | 2397.2 | 2373.1 | 2388.6 | 2394.2 | 2402.5 |
| 7.5° | 2308.2 | 2290.0 | 2318.3 | 2339.2 | 2356.1 |
| 10° | 2238.9 | 2223.3 | 2259.3 | 2289.7 | 2311.7 |
| 12.5° | 2158.5 | 2145.4 | 2190.0 | 2230.8 | 2259.5 |
| 15° | 2027.2 | 2019.9 | 2074.3 | 2130.7 | 2167.3 |
| 17.5° | 1886.7 | 1883.2 | 1945.6 | 2011.4 | 2058.3 |
| 20° | 1790.9 | 1789.9 | 1858.3 | 1926.9 | 1981.3 |
| 22.5° | 1694.3 | 1696.6 | 1768.5 | 1839.8 | 1901.7 |
| 25° | 1549.3 | 1553.5 | 1633.8 | 1705.0 | 1780.3 |
| 27.5° | 1415.2 | 1417.1 | 1500.1 | 1575.3 | 1655.6 |
| 30° | 1323.7 | 1328.9 | 1410.3 | 1488.1 | 1571.8 |
| 32.5° | 1232.2 | 1238.2 | 1317.9 | 1398.3 | 1483.7 |
| 35° | 1094.9 | 1100.1 | 1174.0 | 1253.0 | 1341.9 |
| 37.5° | 953.3 | 960.4 | 1026.0 | 1100.7 | 1188.1 |
| 40° | 861.8 | 872.2 | 930.2 | 1000.6 | 1086.3 |
| 42.5° | 773.7 | 786.7 | 840.4 | 907.2 | 984.5 |
| 45° | 656.5 | 669.0 | 713.2 | 767.2 | 837.2 |
| 47.5° | 555.6 | 570.0 | 603.9 | 650.4 | 710.2 |
| 50° | 498.3 | 511.8 | 543.2 | 577.6 | 634.0 |
| 52.5° | 447.8 | 461.4 | 489.3 | 515.8 | 563.9 |
| 55° | 377.4 | 393.1 | 415.9 | 431.7 | 467.2 |
| 57.5° | 319.7 | 334.8 | 352.8 | 360.0 | 381.5 |
| 60° | 281.2 | 297.9 | 314.4 | 313.5 | 325.0 |
| 62.5° | 246.1 | 260.4 | 276.7 | 265.4 | 266.0 |
| 65° | 189.3 | 204.9 | 223.5 | 195.3 | 177.5 |
| 67.5° | 152.9 | 156.2 | 175.4 | 136.2 | 115.0 |
| 70° | 135.8 | 135.8 | 141.1 | 105.4 | 87.7 |
| 72.5° | 119.5 | 119.5 | 114.6 | 85.8 | 67.1 |
| 75° | 95.2 | 95.2 | 86.6 | 59.4 | 40.6 |
| 77.5° | 73.3 | 72.5 | 66.3 | 44.4 | 29.5 |
| 80° | 58.8 | 58.8 | 53.5 | 35.0 | 23.5 |
| 82.5° | 46.0 | 46.0 | 41.5 | 27.4 | 17.5 |
| 85° | 26.7 | 26.7 | 24.6 | 15.9 | 9.6 |
| 87.5° | 9.4 | 9.4 | 8.6 | 5.1 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 13.9 | 73.8 | 171.1 | 49.8 | 37.6 |
| 95° | 45.2 | 179.6 | 807.0 | 279.3 | 172.2 |
| 97.5° | 83.1 | 210.3 | 1242.8 | 889.3 | 609.4 |
| 100° | 109.6 | 228.6 | 1337.4 | 1354.7 | 1043.5 |
| 102.5° | 138.8 | 248.3 | 1316.6 | 1734.0 | 1462.3 |
| 105° | 184.4 | 279.6 | 1208.7 | 2135.1 | 2029.6 |
| 107.5° | 230.6 | 316.0 | 1082.8 | 2248.1 | 2342.0 |
| 110° | 262.6 | 342.5 | 1010.5 | 2204.9 | 2415.7 |



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CATALOG NUMBER: SQ4-WB-125U-100D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 293.2 | 369.1 | 961.8 | 2102.5 | 2403.2 |
| 115° | 342.6 | 414.0 | 916.5 | 1941.7 | 2280.1 |
| 117.5° | 386.1 | 453.1 | 889.8 | 1765.8 | 2124.2 |
| 120° | 420.9 | 477.0 | 887.0 | 1665.2 | 2008.8 |
| 122.5° | 448.7 | 504.8 | 880.0 | 1577.0 | 1896.1 |
| 125° | 483.5 | 536.2 | 874.8 | 1451.7 | 1735.7 |
| 127.5° | 521.4 | 570.7 | 872.0 | 1376.8 | 1610.8 |
| 130° | 540.9 | 590.2 | 867.9 | 1324.7 | 1528.7 |
| 132.5° | 561.8 | 609.7 | 867.9 | 1284.0 | 1471.7 |
| 135° | 591.3 | 640.6 | 864.4 | 1226.3 | 1386.1 |
| 137.5° | 619.1 | 667.1 | 864.0 | 1177.4 | 1315.5 |
| 140° | 640.0 | 689.3 | 862.6 | 1137.0 | 1269.6 |
| 142.5° | 663.7 | 704.8 | 866.8 | 1104.6 | 1223.7 |
| 145° | 697.4 | 733.1 | 871.3 | 1061.3 | 1156.6 |
| 147.5° | 726.3 | 761.0 | 879.0 | 1017.6 | 1099.9 |
| 150° | 751.3 | 775.1 | 881.8 | 1003.1 | 1060.9 |
| 152.5° | 770.8 | 796.0 | 884.5 | 983.5 | 1037.2 |
| 155° | 796.5 | 815.2 | 892.2 | 959.2 | 998.3 |
| 157.5° | 828.5 | 839.8 | 893.9 | 948.1 | 976.0 |
| 160° | 845.2 | 853.7 | 900.9 | 939.7 | 963.5 |
| 162.5° | 855.0 | 864.8 | 902.3 | 932.6 | 951.0 |
| 165° | 880.0 | 883.4 | 902.6 | 922.1 | 935.7 |
| 167.5° | 897.1 | 894.0 | 910.6 | 919.5 | 924.9 |
| 170° | 902.6 | 900.9 | 907.9 | 909.7 | 916.5 |
| 172.5° | 915.2 | 909.4 | 912.0 | 906.9 | 912.4 |
| 175° | 921.8 | 916.7 | 913.1 | 907.7 | 900.9 |
| 177.5° | 924.5 | 916.4 | 912.0 | 906.5 | 907.9 |
| 180° | 914.8 | 914.8 | 914.8 | 914.8 | 914.8 |

(END OF REPORT)