

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: P521968

Luminaire Tested: **SQ4-WB-125U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521968
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-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

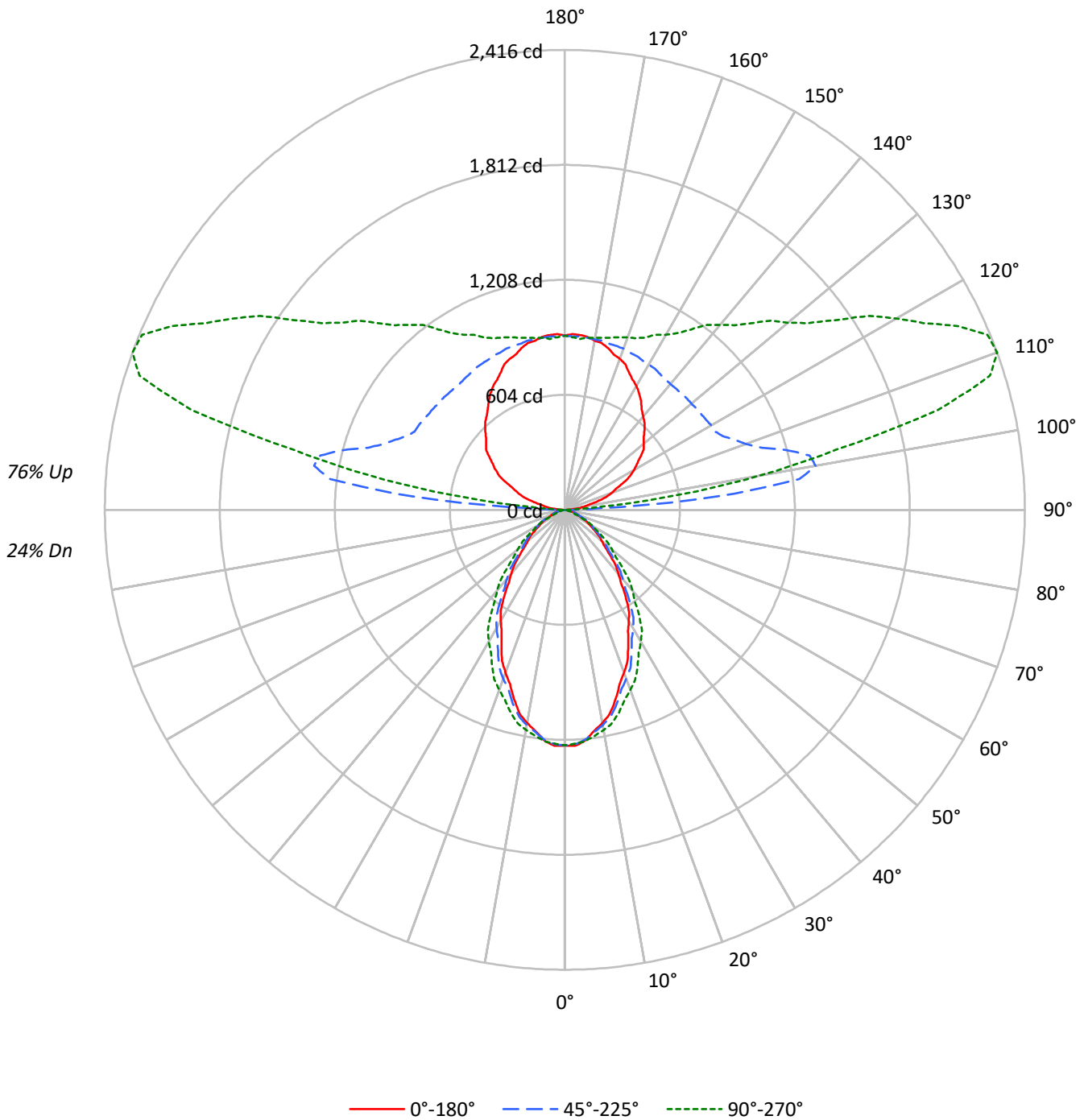
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7486.1 lumens
Efficiency: N/A
Efficacy: 120.5 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): 62.1
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: P521968
CATALOG NUMBER: SQ4-WB-125U-050D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521968

CATALOG NUMBER: SQ4-WB-125U-050D-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |
| 1 | 93 | 89 | 85 | 82 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 43 | 42 | 29 | 29 | 28 | 21 |
| 2 | 85 | 78 | 72 | 68 | 75 | 70 | 65 | 61 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |
| 3 | 78 | 69 | 62 | 57 | 69 | 62 | 56 | 52 | 48 | 44 | 41 | 36 | 33 | 31 | 24 | 23 | 22 | 17 |
| 4 | 71 | 61 | 54 | 49 | 63 | 55 | 49 | 44 | 43 | 39 | 36 | 32 | 29 | 27 | 22 | 20 | 19 | 15 |
| 5 | 65 | 55 | 47 | 42 | 58 | 49 | 43 | 38 | 39 | 34 | 31 | 29 | 26 | 24 | 20 | 18 | 17 | 13 |
| 6 | 60 | 49 | 42 | 36 | 54 | 44 | 38 | 33 | 35 | 31 | 27 | 26 | 23 | 21 | 18 | 17 | 15 | 12 |
| 7 | 56 | 44 | 37 | 32 | 50 | 40 | 34 | 29 | 32 | 27 | 24 | 24 | 21 | 19 | 17 | 15 | 14 | 11 |
| 8 | 52 | 40 | 33 | 28 | 46 | 37 | 30 | 26 | 29 | 25 | 21 | 22 | 19 | 17 | 16 | 14 | 13 | 10 |
| 9 | 48 | 37 | 30 | 25 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 20 | 17 | 15 | 15 | 13 | 11 | 9 |
| 10 | 45 | 34 | 27 | 23 | 40 | 31 | 25 | 21 | 25 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 11 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11419 | 11419 | 11419 |
| 5° | 11277 | 11237 | 11302 |
| 10° | 10654 | 10751 | 11001 |
| 15° | 9835 | 10064 | 10515 |
| 20° | 8932 | 9268 | 9881 |
| 25° | 8011 | 8448 | 9206 |
| 30° | 7163 | 7631 | 8506 |
| 35° | 6263 | 6716 | 7677 |
| 40° | 5272 | 5691 | 6646 |
| 45° | 4351 | 4726 | 5548 |
| 50° | 3633 | 3960 | 4623 |
| 55° | 3084 | 3399 | 3817 |
| 60° | 2635 | 2947 | 3046 |
| 65° | 2098 | 2478 | 1969 |
| 70° | 1861 | 1934 | 1200 |
| 75° | 1722 | 1568 | 734 |
| 80° | 1589 | 1445 | 632 |
| 85° | 1440 | 1323 | 519 |



TEST NUMBER: P521968

CATALOG NUMBER: SQ4-WB-125U-050D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.5 | 1.5 |
| 10°-20° | 295.3 | 3.9 |
| 20°-30° | 382.5 | 5.1 |
| 30°-40° | 374.5 | 5.0 |
| 40°-50° | 286.7 | 3.8 |
| 50°-60° | 191.0 | 2.6 |
| 60°-70° | 104.3 | 1.4 |
| 70°-80° | 43.4 | 0.6 |
| 80°-90° | 12.3 | 0.2 |
| 90°-100° | 416.8 | 5.6 |
| 100°-110° | 1186.1 | 15.8 |
| 110°-120° | 1136.4 | 15.2 |
| 120°-130° | 899.4 | 12.0 |
| 130°-140° | 721.9 | 9.6 |
| 140°-150° | 565.2 | 7.5 |
| 150°-160° | 413.5 | 5.5 |
| 160°-170° | 256.2 | 3.4 |
| 170°-180° | 86.9 | 1.2 |
| 0°-30° | 791.3 | 10.6 |
| 0°-40° | 1165.9 | 15.6 |
| 0°-60° | 1643.6 | 22.0 |
| 0°-90° | 1803.6 | 24.1 |
| 90°-120° | 2739.4 | 36.6 |
| 90°-150° | 4925.9 | 65.8 |
| 90°-180° | 5682.0 | 75.9 |
| 0°-180° | 7486.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1238 | 1238 | 1238 | 1238 | 1238 | |
| 5° | 1218 | 1205 | 1213 | 1216 | 1220 | 113 |
| 15° | 1030 | 1026 | 1054 | 1082 | 1101 | 288 |
| 25° | 787 | 789 | 830 | 866 | 904 | 362 |
| 35° | 556 | 559 | 596 | 636 | 682 | 346 |
| 45° | 334 | 340 | 362 | 390 | 425 | 260 |
| 55° | 192 | 200 | 211 | 219 | 237 | 174 |
| 65° | 96 | 104 | 114 | 99 | 90 | 100 |
| 75° | 48 | 48 | 44 | 30 | 21 | 52 |
| 85° | 14 | 14 | 12 | 8 | 5 | 15 |
| 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: P521968

CATALOG NUMBER: SQ4-WB-125U-050D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1237.7 | 1237.7 | 1237.7 | 1237.7 | 1237.7 |
| 2.5° | 1240.8 | 1229.7 | 1232.5 | 1232.4 | 1229.0 |
| 5° | 1217.6 | 1205.4 | 1213.3 | 1216.1 | 1220.3 |
| 7.5° | 1172.4 | 1163.2 | 1177.5 | 1188.2 | 1196.8 |
| 10° | 1137.2 | 1129.3 | 1147.6 | 1163.0 | 1174.2 |
| 12.5° | 1096.4 | 1089.7 | 1112.4 | 1133.1 | 1147.7 |
| 15° | 1029.7 | 1026.0 | 1053.6 | 1082.3 | 1100.9 |
| 17.5° | 958.4 | 956.5 | 988.2 | 1021.7 | 1045.5 |
| 20° | 909.7 | 909.2 | 943.9 | 978.7 | 1006.4 |
| 22.5° | 860.6 | 861.8 | 898.3 | 934.5 | 966.0 |
| 25° | 786.9 | 789.1 | 829.9 | 866.0 | 904.3 |
| 27.5° | 718.8 | 719.8 | 762.0 | 800.2 | 840.9 |
| 30° | 672.4 | 675.0 | 716.3 | 755.9 | 798.4 |
| 32.5° | 625.9 | 628.9 | 669.4 | 710.3 | 753.6 |
| 35° | 556.1 | 558.8 | 596.3 | 636.5 | 681.6 |
| 37.5° | 484.2 | 487.8 | 521.2 | 559.1 | 603.5 |
| 40° | 437.7 | 443.0 | 472.5 | 508.2 | 551.8 |
| 42.5° | 393.0 | 399.6 | 426.9 | 460.8 | 500.1 |
| 45° | 333.5 | 339.8 | 362.2 | 389.7 | 425.2 |
| 47.5° | 282.2 | 289.5 | 306.7 | 330.4 | 360.7 |
| 50° | 253.1 | 260.0 | 275.9 | 293.4 | 322.1 |
| 52.5° | 227.4 | 234.4 | 248.5 | 262.0 | 286.4 |
| 55° | 191.7 | 199.7 | 211.3 | 219.3 | 237.3 |
| 57.5° | 162.4 | 170.0 | 179.2 | 182.8 | 193.8 |
| 60° | 142.8 | 151.3 | 159.7 | 159.3 | 165.1 |
| 62.5° | 125.0 | 132.2 | 140.6 | 134.8 | 135.1 |
| 65° | 96.1 | 104.1 | 113.5 | 99.2 | 90.2 |
| 67.5° | 77.7 | 79.4 | 89.1 | 69.2 | 58.4 |
| 70° | 69.0 | 69.0 | 71.7 | 53.6 | 44.5 |
| 72.5° | 60.7 | 60.7 | 58.2 | 43.6 | 34.1 |
| 75° | 48.3 | 48.3 | 44.0 | 30.2 | 20.6 |
| 77.5° | 37.3 | 36.8 | 33.7 | 22.5 | 15.0 |
| 80° | 29.9 | 29.9 | 27.2 | 17.8 | 11.9 |
| 82.5° | 23.4 | 23.4 | 21.1 | 13.9 | 8.9 |
| 85° | 13.6 | 13.6 | 12.5 | 8.1 | 4.9 |
| 87.5° | 4.8 | 4.8 | 4.3 | 2.6 | 2.2 |
| 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 |

TEST NUMBER: P521968

CATALOG NUMBER: SQ4-WB-125U-050D-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)