

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: P521981

Luminaire Tested: **SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521981
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-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

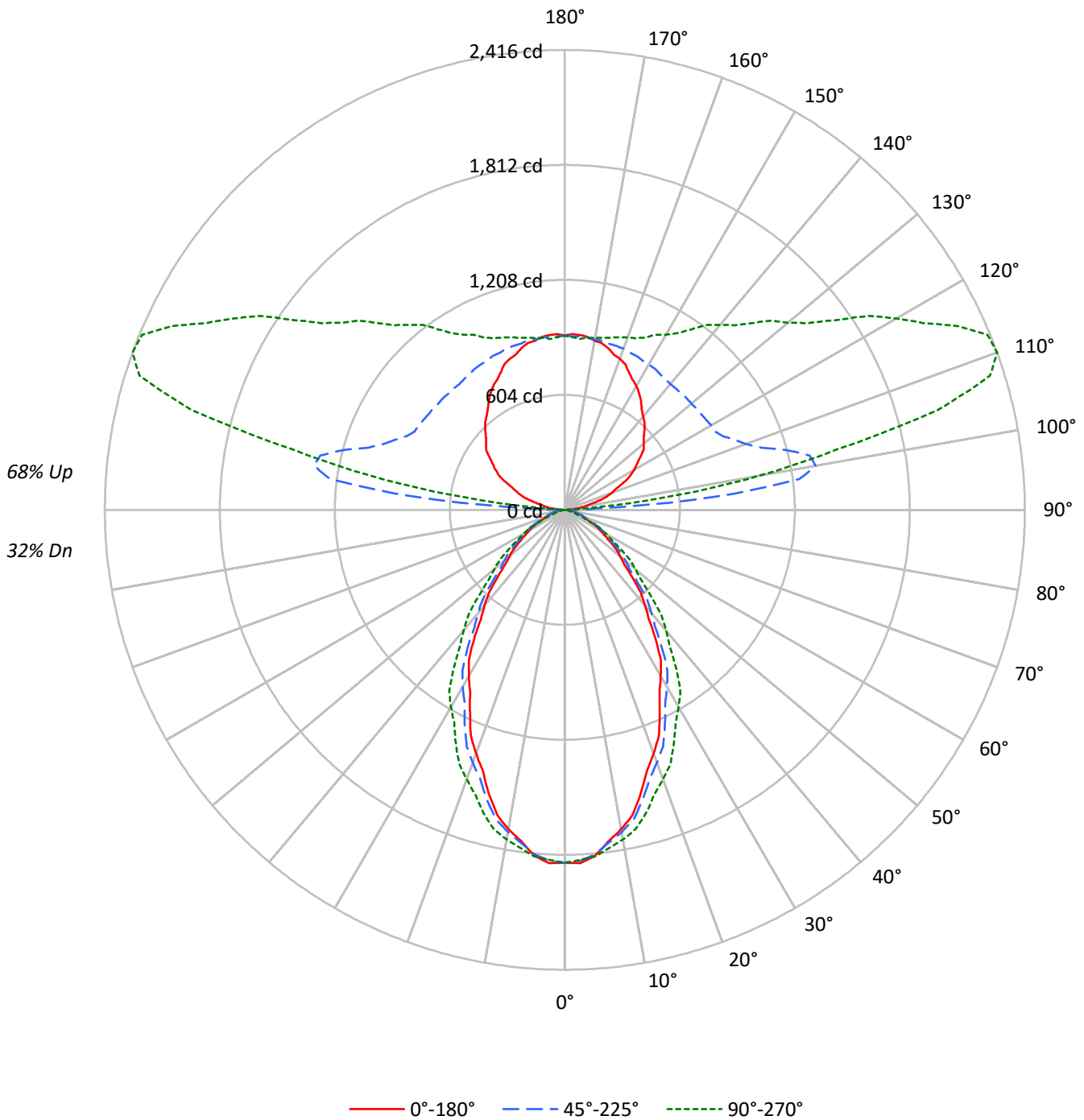
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8383.6 lumens
Efficiency: N/A
Efficacy: 114.4 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): 73.3
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: P521981
CATALOG NUMBER: SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521981

CATALOG NUMBER: SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4 (4500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | |
| 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 | 93 | 93 | 93 | 93 | 73 | 73 | 73 | 56 | 56 | 56 | 40 | 40 | 40 | 32 | | |
| 1 | 95 | 91 | 87 | 84 | 85 | 82 | 79 | 76 | 65 | 63 | 62 | 50 | 49 | 48 | 36 | 36 | 35 | 29 | | |
| 2 | 87 | 80 | 74 | 70 | 78 | 72 | 68 | 64 | 58 | 55 | 52 | 45 | 43 | 41 | 33 | 32 | 31 | 25 | | |
| 3 | 80 | 71 | 64 | 59 | 72 | 64 | 59 | 54 | 52 | 48 | 45 | 40 | 38 | 36 | 30 | 28 | 27 | 22 | | |
| 4 | 73 | 63 | 56 | 51 | 66 | 57 | 51 | 47 | 47 | 42 | 39 | 37 | 34 | 31 | 27 | 25 | 24 | 20 | | |
| 5 | 67 | 57 | 49 | 44 | 61 | 52 | 45 | 40 | 42 | 37 | 34 | 33 | 30 | 28 | 25 | 23 | 21 | 18 | | |
| 6 | 62 | 51 | 44 | 38 | 56 | 47 | 40 | 35 | 38 | 33 | 30 | 30 | 27 | 25 | 23 | 21 | 19 | 16 | | |
| 7 | 58 | 46 | 39 | 34 | 52 | 42 | 36 | 31 | 35 | 30 | 27 | 28 | 24 | 22 | 21 | 19 | 17 | 15 | | |
| 8 | 54 | 42 | 35 | 30 | 48 | 39 | 32 | 28 | 32 | 27 | 24 | 26 | 22 | 20 | 20 | 17 | 16 | 13 | | |
| 9 | 50 | 39 | 32 | 27 | 45 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 12 | | |
| 10 | 47 | 35 | 29 | 24 | 42 | 33 | 27 | 23 | 27 | 23 | 19 | 22 | 19 | 16 | 17 | 15 | 13 | 11 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17103 | 17103 | 17103 |
| 5° | 16889 | 16828 | 16926 |
| 10° | 15956 | 16101 | 16475 |
| 15° | 14730 | 15072 | 15748 |
| 20° | 13376 | 13879 | 14798 |
| 25° | 11998 | 12652 | 13786 |
| 30° | 10727 | 11429 | 12737 |
| 35° | 9381 | 10059 | 11497 |
| 40° | 7896 | 8522 | 9953 |
| 45° | 6516 | 7078 | 8310 |
| 50° | 5440 | 5931 | 6923 |
| 55° | 4618 | 5089 | 5717 |
| 60° | 3947 | 4412 | 4563 |
| 65° | 3144 | 3711 | 2947 |
| 70° | 2787 | 2897 | 1799 |
| 75° | 2581 | 2349 | 1102 |
| 80° | 2375 | 2162 | 951 |
| 85° | 2149 | 1980 | 773 |



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CATALOG NUMBER: SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.0 | 2.0 |
| 10°-20° | 442.2 | 5.3 |
| 20°-30° | 572.8 | 6.8 |
| 30°-40° | 560.9 | 6.7 |
| 40°-50° | 429.4 | 5.1 |
| 50°-60° | 286.1 | 3.4 |
| 60°-70° | 156.1 | 1.9 |
| 70°-80° | 65.0 | 0.8 |
| 80°-90° | 18.4 | 0.2 |
| 90°-100° | 416.8 | 5.0 |
| 100°-110° | 1186.1 | 14.1 |
| 110°-120° | 1136.4 | 13.6 |
| 120°-130° | 899.4 | 10.7 |
| 130°-140° | 721.9 | 8.6 |
| 140°-150° | 565.2 | 6.7 |
| 150°-160° | 413.5 | 4.9 |
| 160°-170° | 256.2 | 3.1 |
| 170°-180° | 86.9 | 1.0 |
| 0°-30° | 1185.1 | 14.1 |
| 0°-40° | 1746.0 | 20.8 |
| 0°-60° | 2461.5 | 29.4 |
| 0°-90° | 2701.1 | 32.2 |
| 90°-120° | 2739.4 | 32.7 |
| 90°-150° | 4925.9 | 58.8 |
| 90°-180° | 5682.0 | 67.8 |
| 0°-180° | 8383.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1854 | 1854 | 1854 | 1854 | 1854 | |
| 5° | 1824 | 1805 | 1817 | 1821 | 1828 | 170 |
| 15° | 1542 | 1537 | 1578 | 1621 | 1649 | 431 |
| 25° | 1179 | 1182 | 1243 | 1297 | 1354 | 542 |
| 35° | 833 | 837 | 893 | 953 | 1021 | 518 |
| 45° | 499 | 509 | 542 | 584 | 637 | 389 |
| 55° | 287 | 299 | 316 | 328 | 355 | 260 |
| 65° | 144 | 156 | 170 | 148 | 135 | 150 |
| 75° | 72 | 72 | 66 | 45 | 31 | 77 |
| 85° | 20 | 20 | 19 | 12 | 7 | 22 |
| 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: P521981

CATALOG NUMBER: SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1853.7 | 1853.7 | 1853.7 | 1853.7 | 1853.7 |
| 2.5° | 1858.2 | 1841.7 | 1845.8 | 1845.7 | 1840.6 |
| 5° | 1823.6 | 1805.3 | 1817.0 | 1821.3 | 1827.6 |
| 7.5° | 1755.9 | 1742.0 | 1763.5 | 1779.4 | 1792.3 |
| 10° | 1703.2 | 1691.2 | 1718.6 | 1741.8 | 1758.5 |
| 12.5° | 1642.0 | 1632.0 | 1665.9 | 1697.0 | 1718.8 |
| 15° | 1542.1 | 1536.6 | 1577.9 | 1620.8 | 1648.7 |
| 17.5° | 1435.3 | 1432.6 | 1480.0 | 1530.1 | 1565.7 |
| 20° | 1362.4 | 1361.6 | 1413.6 | 1465.8 | 1507.2 |
| 22.5° | 1288.9 | 1290.6 | 1345.3 | 1399.6 | 1446.6 |
| 25° | 1178.6 | 1181.7 | 1242.8 | 1297.0 | 1354.2 |
| 27.5° | 1076.6 | 1078.0 | 1141.1 | 1198.3 | 1259.4 |
| 30° | 1006.9 | 1010.9 | 1072.8 | 1132.0 | 1195.6 |
| 32.5° | 937.3 | 941.9 | 1002.5 | 1063.7 | 1128.6 |
| 35° | 832.9 | 836.9 | 893.1 | 953.2 | 1020.8 |
| 37.5° | 725.2 | 730.6 | 780.5 | 837.3 | 903.8 |
| 40° | 655.6 | 663.5 | 707.6 | 761.2 | 826.4 |
| 42.5° | 588.5 | 598.4 | 639.3 | 690.1 | 748.9 |
| 45° | 499.4 | 508.9 | 542.5 | 583.6 | 636.9 |
| 47.5° | 422.6 | 433.6 | 459.4 | 494.7 | 540.2 |
| 50° | 379.0 | 389.4 | 413.2 | 439.4 | 482.3 |
| 52.5° | 340.6 | 351.0 | 372.2 | 392.4 | 429.0 |
| 55° | 287.1 | 299.0 | 316.4 | 328.4 | 355.4 |
| 57.5° | 243.2 | 254.6 | 268.4 | 273.8 | 290.2 |
| 60° | 213.9 | 226.6 | 239.1 | 238.5 | 247.3 |
| 62.5° | 187.2 | 198.1 | 210.5 | 201.9 | 202.4 |
| 65° | 144.0 | 155.9 | 170.0 | 148.5 | 135.0 |
| 67.5° | 116.3 | 118.9 | 133.4 | 103.6 | 87.5 |
| 70° | 103.3 | 103.3 | 107.4 | 80.2 | 66.7 |
| 72.5° | 90.9 | 90.9 | 87.2 | 65.2 | 51.1 |
| 75° | 72.4 | 72.4 | 65.9 | 45.2 | 30.9 |
| 77.5° | 55.8 | 55.2 | 50.4 | 33.7 | 22.4 |
| 80° | 44.7 | 44.7 | 40.7 | 26.6 | 17.9 |
| 82.5° | 35.0 | 35.0 | 31.6 | 20.8 | 13.3 |
| 85° | 20.3 | 20.3 | 18.7 | 12.1 | 7.3 |
| 87.5° | 7.2 | 7.2 | 6.5 | 3.9 | 3.3 |
| 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-075D-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)