

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: P522035

Luminaire Tested: **SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522035
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-150U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

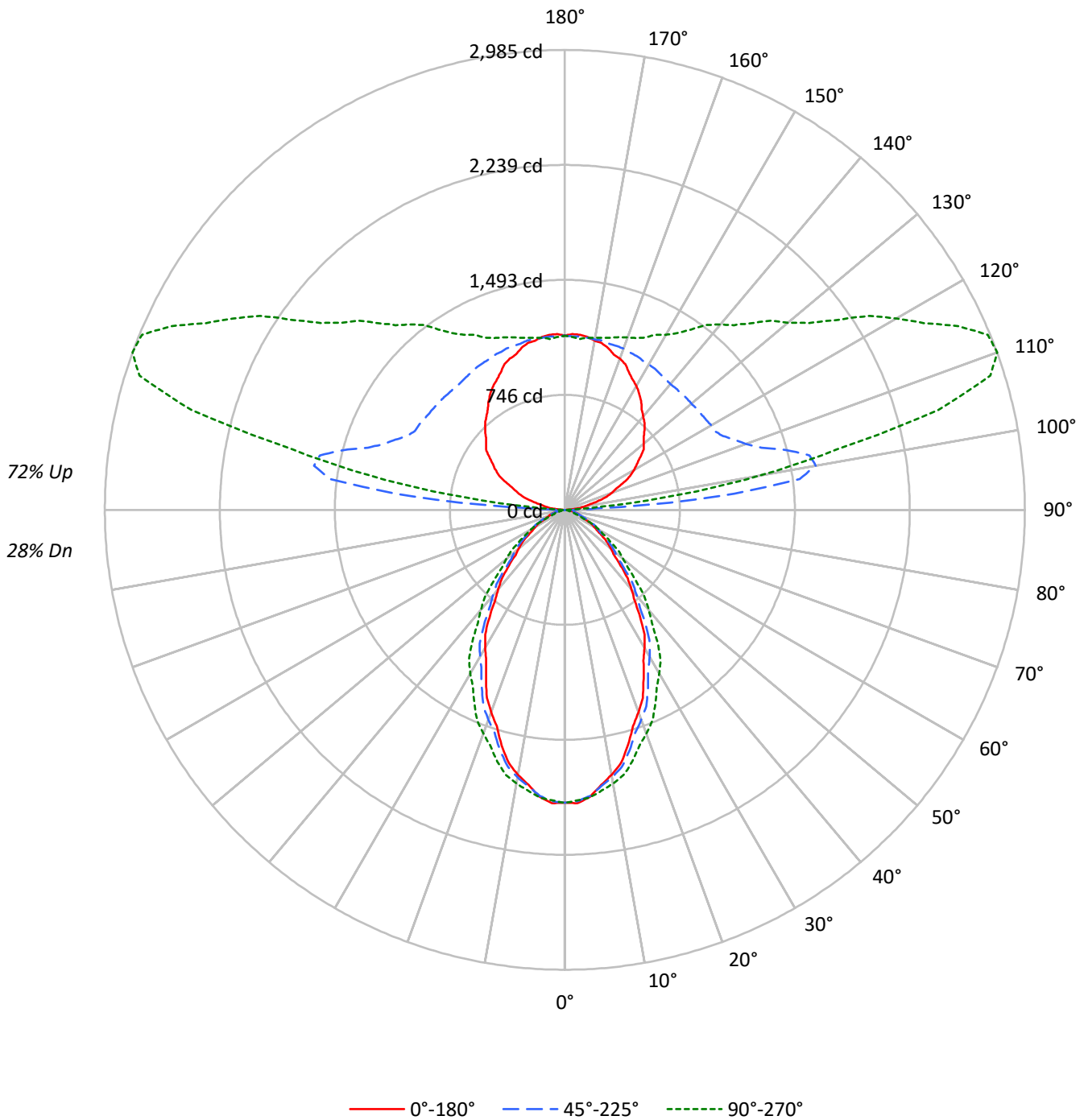
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9792.6 lumens
Efficiency: N/A
Efficacy: 118.3 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): 82.8
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: P522035
CATALOG NUMBER: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P522035

CATALOG NUMBER: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)

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 | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |
| 1 | 94 | 90 | 86 | 83 | 84 | 80 | 78 | 75 | 63 | 61 | 60 | 47 | 46 | 45 | 33 | 32 | 32 | 25 |
| 2 | 86 | 79 | 73 | 69 | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 42 | 41 | 39 | 30 | 29 | 28 | 22 |
| 3 | 79 | 70 | 63 | 58 | 70 | 63 | 57 | 53 | 50 | 46 | 43 | 38 | 36 | 34 | 27 | 26 | 24 | 20 |
| 4 | 72 | 62 | 55 | 50 | 65 | 56 | 50 | 45 | 45 | 41 | 37 | 34 | 32 | 29 | 25 | 23 | 22 | 17 |
| 5 | 66 | 56 | 48 | 43 | 59 | 50 | 44 | 39 | 40 | 36 | 32 | 31 | 28 | 26 | 22 | 21 | 19 | 16 |
| 6 | 61 | 50 | 43 | 37 | 55 | 46 | 39 | 34 | 37 | 32 | 29 | 28 | 25 | 23 | 21 | 19 | 17 | 14 |
| 7 | 57 | 45 | 38 | 33 | 51 | 41 | 35 | 30 | 33 | 29 | 25 | 26 | 23 | 20 | 19 | 17 | 16 | 13 |
| 8 | 53 | 41 | 34 | 29 | 47 | 38 | 31 | 27 | 31 | 26 | 23 | 24 | 21 | 18 | 18 | 16 | 14 | 12 |
| 9 | 49 | 38 | 31 | 26 | 44 | 34 | 28 | 24 | 28 | 24 | 20 | 22 | 19 | 17 | 16 | 14 | 13 | 11 |
| 10 | 46 | 35 | 28 | 23 | 41 | 32 | 26 | 22 | 26 | 21 | 18 | 20 | 17 | 15 | 15 | 13 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17538 | 17538 | 17538 |
| 5° | 17319 | 17257 | 17358 |
| 10° | 16363 | 16511 | 16894 |
| 15° | 15105 | 15456 | 16149 |
| 20° | 13717 | 14233 | 15174 |
| 25° | 12304 | 12974 | 14137 |
| 30° | 11001 | 11720 | 13062 |
| 35° | 9620 | 10315 | 11790 |
| 40° | 8097 | 8739 | 10206 |
| 45° | 6682 | 7259 | 8522 |
| 50° | 5579 | 6082 | 7099 |
| 55° | 4736 | 5220 | 5863 |
| 60° | 4048 | 4525 | 4680 |
| 65° | 3222 | 3805 | 3024 |
| 70° | 2857 | 2970 | 1845 |
| 75° | 2645 | 2410 | 1130 |
| 80° | 2439 | 2216 | 972 |
| 85° | 2212 | 2032 | 794 |



TEST NUMBER: P522035

CATALOG NUMBER: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 174.4 | 1.8 |
| 10°-20° | 453.5 | 4.6 |
| 20°-30° | 587.4 | 6.0 |
| 30°-40° | 575.2 | 5.9 |
| 40°-50° | 440.3 | 4.5 |
| 50°-60° | 293.4 | 3.0 |
| 60°-70° | 160.1 | 1.6 |
| 70°-80° | 66.7 | 0.7 |
| 80°-90° | 18.9 | 0.2 |
| 90°-100° | 515.2 | 5.3 |
| 100°-110° | 1465.8 | 15.0 |
| 110°-120° | 1404.4 | 14.3 |
| 120°-130° | 1111.5 | 11.4 |
| 130°-140° | 892.2 | 9.1 |
| 140°-150° | 698.5 | 7.1 |
| 150°-160° | 511.1 | 5.2 |
| 160°-170° | 316.6 | 3.2 |
| 170°-180° | 107.4 | 1.1 |
| 0°-30° | 1215.3 | 12.4 |
| 0°-40° | 1790.5 | 18.3 |
| 0°-60° | 2524.2 | 25.8 |
| 0°-90° | 2769.9 | 28.3 |
| 90°-120° | 3385.4 | 34.6 |
| 90°-150° | 6087.6 | 62.2 |
| 90°-180° | 7023.0 | 71.7 |
| 0°-180° | 9792.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1901 | 1901 | 1901 | 1901 | 1901 | |
| 5° | 1870 | 1851 | 1863 | 1868 | 1874 | 174 |
| 15° | 1581 | 1576 | 1618 | 1662 | 1691 | 442 |
| 25° | 1209 | 1212 | 1274 | 1330 | 1389 | 556 |
| 35° | 854 | 858 | 916 | 977 | 1047 | 531 |
| 45° | 512 | 522 | 556 | 598 | 653 | 399 |
| 55° | 294 | 307 | 324 | 337 | 364 | 267 |
| 65° | 148 | 160 | 174 | 152 | 138 | 153 |
| 75° | 74 | 74 | 68 | 46 | 32 | 79 |
| 85° | 21 | 21 | 19 | 12 | 8 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 56 | 222 | 997 | 345 | 213 | 64 |
| 105° | 228 | 346 | 1494 | 2639 | 2508 | 241 |
| 115° | 423 | 512 | 1133 | 2400 | 2818 | 417 |
| 125° | 598 | 663 | 1081 | 1794 | 2145 | 535 |
| 135° | 731 | 792 | 1068 | 1516 | 1713 | 564 |
| 145° | 862 | 906 | 1077 | 1312 | 1429 | 538 |
| 155° | 984 | 1008 | 1103 | 1185 | 1234 | 455 |
| 165° | 1088 | 1092 | 1116 | 1140 | 1156 | 306 |
| 175° | 1139 | 1133 | 1128 | 1122 | 1113 | 108 |
| 180° | 1131 | 1131 | 1131 | 1131 | 1131 | |

TEST NUMBER: P522035

CATALOG NUMBER: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1900.9 | 1900.9 | 1900.9 | 1900.9 | 1900.9 |
| 2.5° | 1905.5 | 1888.6 | 1892.8 | 1892.7 | 1887.5 |
| 5° | 1870.0 | 1851.2 | 1863.3 | 1867.6 | 1874.2 |
| 7.5° | 1800.6 | 1786.4 | 1808.4 | 1824.8 | 1838.0 |
| 10° | 1746.6 | 1734.3 | 1762.4 | 1786.1 | 1803.3 |
| 12.5° | 1683.8 | 1673.6 | 1708.4 | 1740.2 | 1762.6 |
| 15° | 1581.4 | 1575.7 | 1618.1 | 1662.1 | 1690.7 |
| 17.5° | 1471.8 | 1469.0 | 1517.7 | 1569.1 | 1605.6 |
| 20° | 1397.1 | 1396.3 | 1449.6 | 1503.1 | 1545.5 |
| 22.5° | 1321.7 | 1323.5 | 1379.6 | 1435.2 | 1483.5 |
| 25° | 1208.6 | 1211.8 | 1274.5 | 1330.0 | 1388.7 |
| 27.5° | 1104.0 | 1105.4 | 1170.2 | 1228.8 | 1291.5 |
| 30° | 1032.6 | 1036.7 | 1100.1 | 1160.8 | 1226.1 |
| 32.5° | 961.2 | 965.9 | 1028.1 | 1090.8 | 1157.4 |
| 35° | 854.1 | 858.2 | 915.8 | 977.4 | 1046.8 |
| 37.5° | 743.7 | 749.2 | 800.4 | 858.6 | 926.8 |
| 40° | 672.3 | 680.4 | 725.6 | 780.5 | 847.4 |
| 42.5° | 603.5 | 613.6 | 655.6 | 707.7 | 768.0 |
| 45° | 512.1 | 521.9 | 556.3 | 598.4 | 653.1 |
| 47.5° | 433.4 | 444.6 | 471.1 | 507.3 | 554.0 |
| 50° | 388.7 | 399.3 | 423.7 | 450.6 | 494.6 |
| 52.5° | 349.3 | 359.9 | 381.7 | 402.4 | 439.9 |
| 55° | 294.4 | 306.7 | 324.5 | 336.8 | 364.5 |
| 57.5° | 249.4 | 261.1 | 275.2 | 280.8 | 297.6 |
| 60° | 219.4 | 232.4 | 245.2 | 244.6 | 253.6 |
| 62.5° | 192.0 | 203.1 | 215.9 | 207.0 | 207.5 |
| 65° | 147.6 | 159.9 | 174.3 | 152.3 | 138.5 |
| 67.5° | 119.3 | 121.9 | 136.8 | 106.2 | 89.7 |
| 70° | 105.9 | 105.9 | 110.1 | 82.3 | 68.4 |
| 72.5° | 93.2 | 93.2 | 89.4 | 66.9 | 52.4 |
| 75° | 74.2 | 74.2 | 67.6 | 46.4 | 31.7 |
| 77.5° | 57.2 | 56.6 | 51.7 | 34.6 | 23.0 |
| 80° | 45.9 | 45.9 | 41.7 | 27.3 | 18.3 |
| 82.5° | 35.9 | 35.9 | 32.4 | 21.3 | 13.7 |
| 85° | 20.9 | 20.9 | 19.2 | 12.4 | 7.5 |
| 87.5° | 7.3 | 7.3 | 6.7 | 4.0 | 3.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 17.2 | 91.2 | 211.5 | 61.6 | 46.4 |
| 95° | 55.9 | 221.9 | 997.3 | 345.2 | 212.8 |
| 97.5° | 102.7 | 259.9 | 1535.9 | 1099.1 | 753.1 |
| 100° | 135.4 | 282.5 | 1652.8 | 1674.2 | 1289.6 |
| 102.5° | 171.5 | 306.9 | 1627.1 | 2143.0 | 1807.2 |
| 105° | 227.8 | 345.5 | 1493.8 | 2638.6 | 2508.3 |
| 107.5° | 285.0 | 390.5 | 1338.2 | 2778.3 | 2894.3 |
| 110° | 324.6 | 423.3 | 1248.8 | 2724.8 | 2985.4 |

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CATALOG NUMBER: SQ4-WB-150U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 362.4 | 456.1 | 1188.6 | 2598.4 | 2970.0 |
| 115° | 423.4 | 511.7 | 1132.7 | 2399.6 | 2817.8 |
| 117.5° | 477.2 | 560.0 | 1099.6 | 2182.2 | 2625.2 |
| 120° | 520.1 | 589.5 | 1096.2 | 2058.0 | 2482.5 |
| 122.5° | 554.5 | 623.9 | 1087.6 | 1949.0 | 2343.2 |
| 125° | 597.5 | 662.7 | 1081.1 | 1794.1 | 2145.0 |
| 127.5° | 644.4 | 705.3 | 1077.7 | 1701.5 | 1990.7 |
| 130° | 668.4 | 729.4 | 1072.5 | 1637.1 | 1889.3 |
| 132.5° | 694.2 | 753.5 | 1072.5 | 1586.8 | 1818.8 |
| 135° | 730.8 | 791.7 | 1068.2 | 1515.5 | 1713.0 |
| 137.5° | 765.2 | 824.4 | 1067.8 | 1455.1 | 1625.8 |
| 140° | 791.0 | 851.9 | 1066.1 | 1405.1 | 1569.0 |
| 142.5° | 820.2 | 871.0 | 1071.2 | 1365.2 | 1512.3 |
| 145° | 861.9 | 906.0 | 1076.8 | 1311.6 | 1429.3 |
| 147.5° | 897.6 | 940.4 | 1086.3 | 1257.5 | 1359.2 |
| 150° | 928.5 | 957.9 | 1089.7 | 1239.6 | 1311.1 |
| 152.5° | 952.6 | 983.7 | 1093.2 | 1215.5 | 1281.9 |
| 155° | 984.4 | 1007.5 | 1102.6 | 1185.4 | 1233.7 |
| 157.5° | 1023.9 | 1037.8 | 1104.8 | 1171.7 | 1206.2 |
| 160° | 1044.6 | 1055.1 | 1113.4 | 1161.3 | 1190.7 |
| 162.5° | 1056.6 | 1068.8 | 1115.1 | 1152.6 | 1175.3 |
| 165° | 1087.6 | 1091.8 | 1115.5 | 1139.5 | 1156.3 |
| 167.5° | 1108.6 | 1104.8 | 1125.4 | 1136.3 | 1143.0 |
| 170° | 1115.5 | 1113.4 | 1122.0 | 1124.3 | 1132.7 |
| 172.5° | 1131.0 | 1123.8 | 1127.1 | 1120.8 | 1127.5 |
| 175° | 1139.2 | 1132.8 | 1128.4 | 1121.8 | 1113.4 |
| 177.5° | 1142.6 | 1132.5 | 1127.1 | 1120.3 | 1122.0 |
| 180° | 1130.6 | 1130.6 | 1130.6 | 1130.6 | 1130.6 |

(END OF REPORT)