

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: P522048

Luminaire Tested: **SQ4-WB-150U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522048  
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-100D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 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**

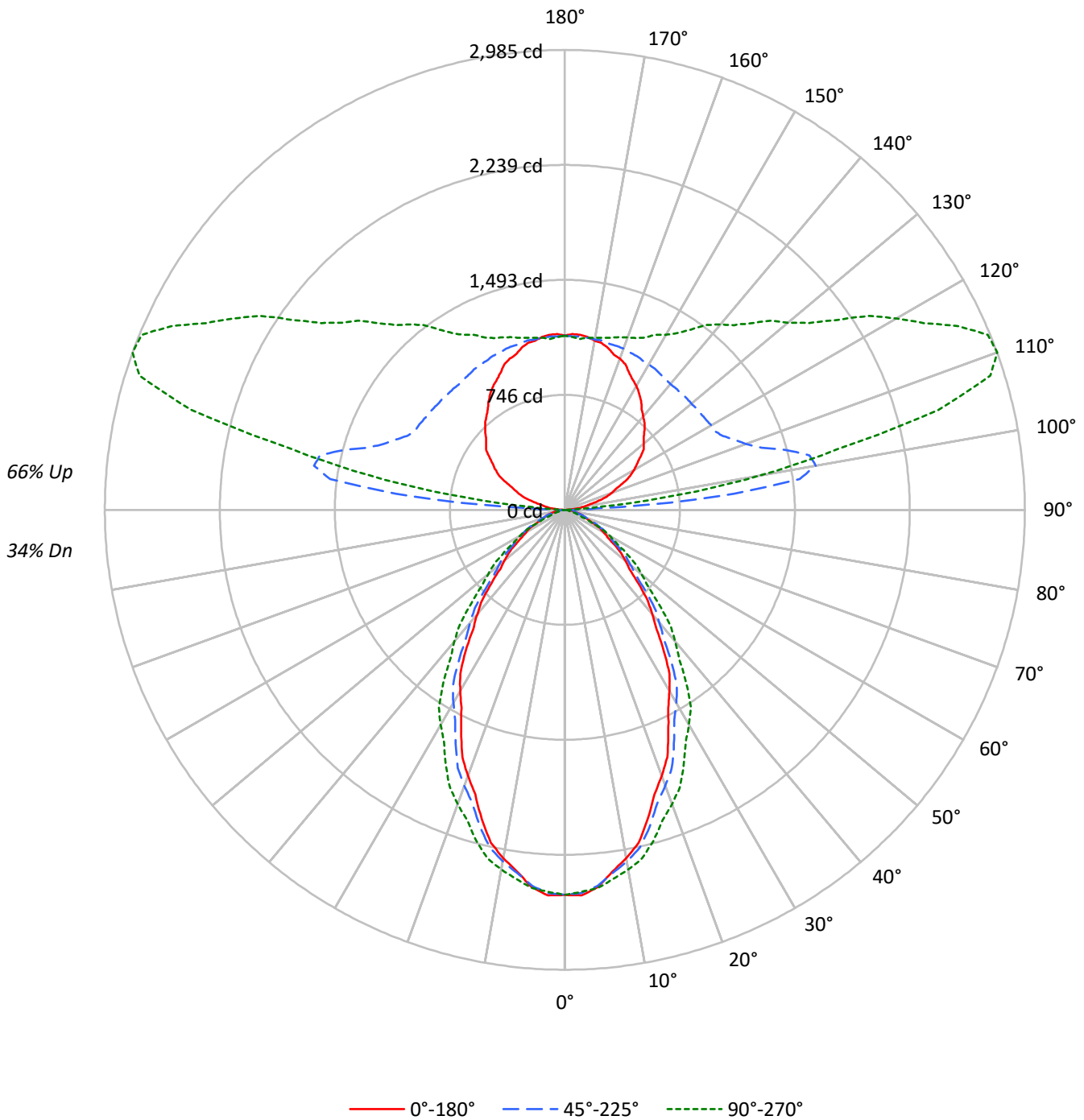
Lumens per Lamp: N/A  
Luminaire Lumens: 10663.9 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 93.3  
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

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### Luminous Intensity Polar Plot





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**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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 57 | 57 | 57 | 42 | 42 | 42 | 34 |    |    |    |   |
| 1   | 95  | 91  | 88  | 84  | 86 | 82 | 80 | 77 | 66 | 64 | 63 | 52 | 50 | 49 | 38 | 37 | 37 | 30 |    |    |    |   |
| 2   | 87  | 80  | 75  | 70  | 79 | 73 | 68 | 64 | 59 | 56 | 53 | 46 | 44 | 42 | 34 | 33 | 32 | 27 |    |    |    |   |
| 3   | 80  | 71  | 65  | 59  | 72 | 65 | 59 | 55 | 53 | 49 | 46 | 42 | 39 | 37 | 31 | 30 | 28 | 24 |    |    |    |   |
| 4   | 74  | 64  | 56  | 51  | 66 | 58 | 52 | 47 | 47 | 43 | 40 | 38 | 35 | 32 | 28 | 27 | 25 | 21 |    |    |    |   |
| 5   | 68  | 57  | 50  | 44  | 61 | 52 | 46 | 41 | 43 | 38 | 35 | 34 | 31 | 28 | 26 | 24 | 22 | 19 |    |    |    |   |
| 6   | 63  | 51  | 44  | 39  | 57 | 47 | 41 | 36 | 39 | 34 | 31 | 31 | 28 | 25 | 24 | 22 | 20 | 17 |    |    |    |   |
| 7   | 58  | 47  | 39  | 34  | 53 | 43 | 36 | 32 | 35 | 31 | 27 | 29 | 25 | 23 | 22 | 20 | 18 | 15 |    |    |    |   |
| 8   | 54  | 43  | 35  | 30  | 49 | 39 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 | 20 | 18 | 17 | 14 |    |    |    |   |
| 9   | 50  | 39  | 32  | 27  | 46 | 36 | 30 | 25 | 30 | 25 | 22 | 24 | 21 | 19 | 19 | 17 | 15 | 13 |    |    |    |   |
| 10  | 47  | 36  | 29  | 25  | 43 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 16 | 14 | 12 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 23054 | 23054 | 23054 |
| 5°  | 22766 | 22686 | 22817 |
| 10° | 21510 | 21705 | 22208 |
| 15° | 19857 | 20317 | 21229 |
| 20° | 18032 | 18710 | 19948 |
| 25° | 16174 | 17056 | 18585 |
| 30° | 14461 | 15407 | 17171 |
| 35° | 12646 | 13560 | 15498 |
| 40° | 10643 | 11489 | 13417 |
| 45° | 8784  | 9542  | 11202 |
| 50° | 7333  | 7995  | 9333  |
| 55° | 6225  | 6860  | 7707  |
| 60° | 5322  | 5949  | 6150  |
| 65° | 4237  | 5004  | 3973  |
| 70° | 3755  | 3903  | 2425  |
| 75° | 3479  | 3165  | 1486  |
| 80° | 3204  | 2912  | 1280  |
| 85° | 2901  | 2668  | 1048  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 229.2   | 2.1       |
| 10°-20°   | 596.2   | 5.6       |
| 20°-30°   | 772.2   | 7.2       |
| 30°-40°   | 756.2   | 7.1       |
| 40°-50°   | 578.8   | 5.4       |
| 50°-60°   | 385.7   | 3.6       |
| 60°-70°   | 210.5   | 2.0       |
| 70°-80°   | 87.7    | 0.8       |
| 80°-90°   | 24.8    | 0.2       |
| 90°-100°  | 515.2   | 4.8       |
| 100°-110° | 1465.8  | 13.7      |
| 110°-120° | 1404.4  | 13.2      |
| 120°-130° | 1111.5  | 10.4      |
| 130°-140° | 892.2   | 8.4       |
| 140°-150° | 698.5   | 6.5       |
| 150°-160° | 511.1   | 4.8       |
| 160°-170° | 316.6   | 3.0       |
| 170°-180° | 107.4   | 1.0       |
| 0°-30°    | 1597.6  | 15.0      |
| 0°-40°    | 2353.7  | 22.1      |
| 0°-60°    | 3318.2  | 31.1      |
| 0°-90°    | 3641.2  | 34.1      |
| 90°-120°  | 3385.4  | 31.7      |
| 90°-150°  | 6087.6  | 57.1      |
| 90°-180°  | 7023.0  | 65.9      |
| 0°-180°   | 10663.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2499 | 2499  | 2499 | 2499  | 2499 |      |
| 5°   | 2458 | 2434  | 2450 | 2455  | 2464 | 229  |
| 15°  | 2079 | 2071  | 2127 | 2185  | 2222 | 581  |
| 25°  | 1589 | 1593  | 1675 | 1748  | 1826 | 731  |
| 35°  | 1123 | 1128  | 1204 | 1285  | 1376 | 698  |
| 45°  | 673  | 686   | 731  | 787   | 858  | 525  |
| 55°  | 387  | 403   | 426  | 443   | 479  | 351  |
| 65°  | 194  | 210   | 229  | 200   | 182  | 202  |
| 75°  | 98   | 98    | 89   | 61    | 42   | 104  |
| 85°  | 27   | 27    | 25   | 16    | 10   | 30   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 4    |
| 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 |      |

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CATALOG NUMBER: SQ4-WB-150U-100D-92765-1D-UNV-STD-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2498.8 | 2498.8 | 2498.8 | 2498.8 | 2498.8 |
| 2.5°   | 2504.9 | 2482.7 | 2488.3 | 2488.1 | 2481.3 |
| 5°     | 2458.2 | 2433.6 | 2449.5 | 2455.1 | 2463.7 |
| 7.5°   | 2367.0 | 2348.4 | 2377.3 | 2398.8 | 2416.1 |
| 10°    | 2296.0 | 2279.9 | 2316.8 | 2348.0 | 2370.5 |
| 12.5°  | 2213.5 | 2200.0 | 2245.7 | 2287.6 | 2317.0 |
| 15°    | 2078.9 | 2071.4 | 2127.1 | 2185.0 | 2222.5 |
| 17.5°  | 1934.8 | 1931.2 | 1995.1 | 2062.6 | 2110.7 |
| 20°    | 1836.6 | 1835.5 | 1905.6 | 1976.0 | 2031.7 |
| 22.5°  | 1737.4 | 1739.8 | 1813.5 | 1886.7 | 1950.1 |
| 25°    | 1588.8 | 1593.0 | 1675.4 | 1748.4 | 1825.6 |
| 27.5°  | 1451.3 | 1453.2 | 1538.3 | 1615.4 | 1697.7 |
| 30°    | 1357.4 | 1362.8 | 1446.2 | 1526.0 | 1611.8 |
| 32.5°  | 1263.5 | 1269.8 | 1351.5 | 1434.0 | 1521.4 |
| 35°    | 1122.8 | 1128.1 | 1203.9 | 1284.9 | 1376.0 |
| 37.5°  | 977.6  | 984.9  | 1052.2 | 1128.7 | 1218.4 |
| 40°    | 883.7  | 894.5  | 953.9  | 1026.1 | 1114.0 |
| 42.5°  | 793.4  | 806.7  | 861.8  | 930.3  | 1009.6 |
| 45°    | 673.2  | 686.1  | 731.3  | 786.7  | 858.5  |
| 47.5°  | 569.7  | 584.5  | 619.3  | 666.9  | 728.3  |
| 50°    | 510.9  | 524.9  | 557.0  | 592.3  | 650.2  |
| 52.5°  | 459.2  | 473.1  | 501.7  | 529.0  | 578.3  |
| 55°    | 387.0  | 403.1  | 426.5  | 442.7  | 479.1  |
| 57.5°  | 327.8  | 343.3  | 361.8  | 369.1  | 391.2  |
| 60°    | 288.4  | 305.5  | 322.4  | 321.5  | 333.3  |
| 62.5°  | 252.4  | 267.0  | 283.8  | 272.2  | 272.8  |
| 65°    | 194.1  | 210.2  | 229.2  | 200.2  | 182.0  |
| 67.5°  | 156.8  | 160.2  | 179.8  | 139.6  | 118.0  |
| 70°    | 139.2  | 139.2  | 144.7  | 108.1  | 89.9   |
| 72.5°  | 122.6  | 122.6  | 117.5  | 87.9   | 68.9   |
| 75°    | 97.6   | 97.6   | 88.8   | 61.0   | 41.7   |
| 77.5°  | 75.2   | 74.4   | 68.0   | 45.5   | 30.3   |
| 80°    | 60.3   | 60.3   | 54.8   | 35.9   | 24.1   |
| 82.5°  | 47.1   | 47.1   | 42.5   | 28.1   | 18.0   |
| 85°    | 27.4   | 27.4   | 25.2   | 16.3   | 9.9    |
| 87.5°  | 9.6    | 9.6    | 8.8    | 5.2    | 4.4    |
| 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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**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)