

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P561977

Luminaire Tested: **SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561977  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-125D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5206.5 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

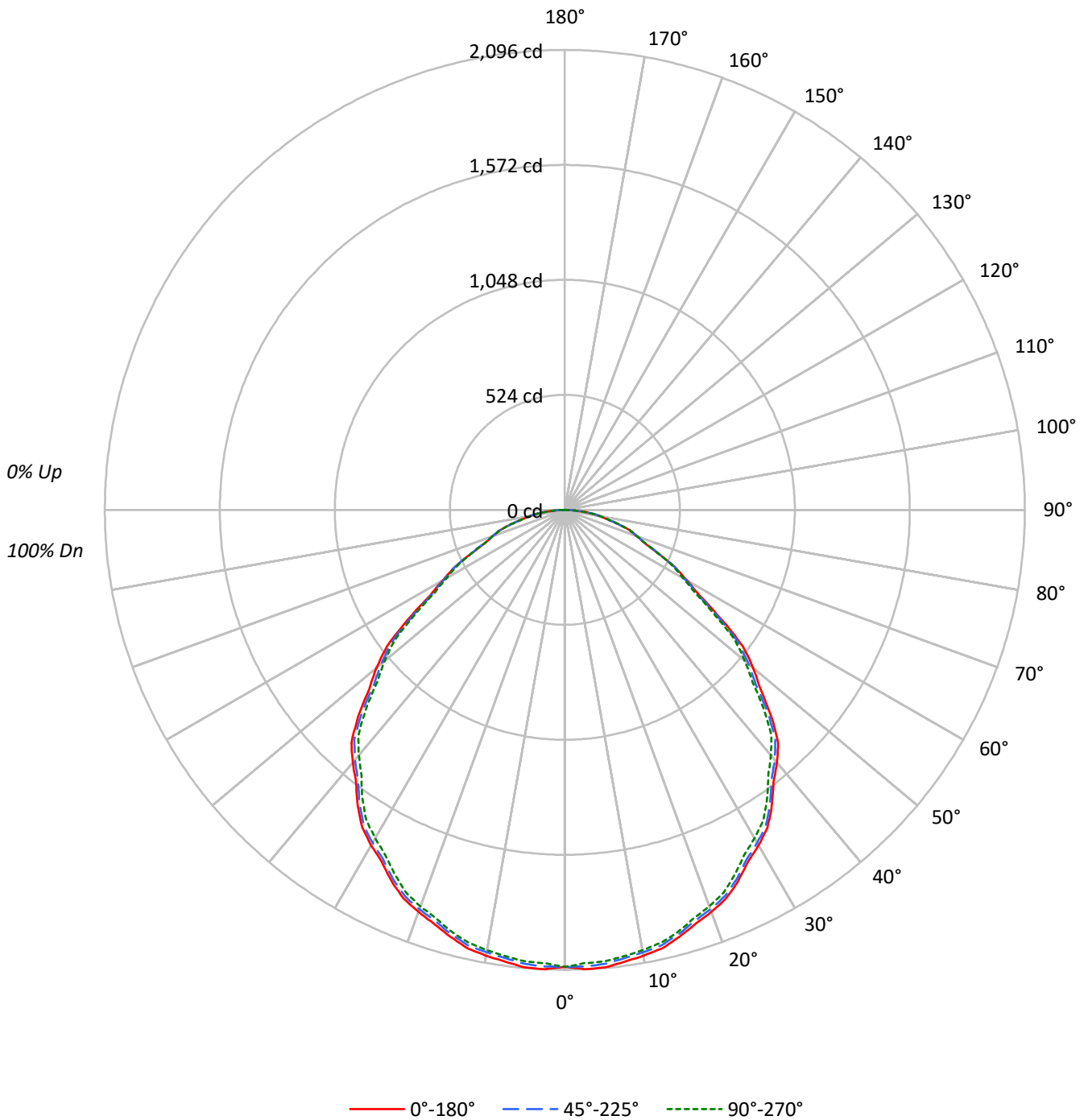
Input Watts (W): 55.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |   |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |    |   |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 72  |    |    |    |   |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 68  | 78  | 71  | 66  | 75  | 70  | 65  | 72  | 68  | 64  | 62  |    |    |    |   |
| 4   | 85  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 63  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |    |   |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 50  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |    |    |    |   |
| 6   | 72  | 59  | 51  | 45  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 43  | 41  |    |    |    |   |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |    |   |
| 8   | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |    |   |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |    |   |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 19215 | 19215 | 19215 |
| 5°  | 19388 | 19239 | 19139 |
| 10° | 19327 | 19192 | 19091 |
| 15° | 19242 | 19122 | 19019 |
| 20° | 19145 | 19022 | 18881 |
| 25° | 19010 | 18883 | 18663 |
| 30° | 18806 | 18671 | 18404 |
| 35° | 18528 | 18366 | 18103 |
| 40° | 18106 | 17911 | 17587 |
| 45° | 17368 | 17063 | 16712 |
| 50° | 16067 | 15681 | 15371 |
| 55° | 14023 | 13706 | 13417 |
| 60° | 11817 | 11717 | 11487 |
| 65° | 10221 | 10261 | 10182 |
| 70° | 9388  | 9436  | 9436  |
| 75° | 9015  | 9015  | 9079  |
| 80° | 8485  | 8575  | 8485  |
| 85° | 6838  | 7601  | 7601  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.9  | 3.8       |
| 10°-20°   | 563.5  | 10.8      |
| 20°-30°   | 849.9  | 16.3      |
| 30°-40°   | 1012.7 | 19.5      |
| 40°-50°   | 998.4  | 19.2      |
| 50°-60°   | 763.0  | 14.7      |
| 60°-70°   | 472.2  | 9.1       |
| 70°-80°   | 268.2  | 5.2       |
| 80°-90°   | 81.6   | 1.6       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1610.4 | 30.9      |
| 0°-40°    | 2623.0 | 50.4      |
| 0°-60°    | 4384.5 | 84.2      |
| 0°-90°    | 5206.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5206.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2083 | 2083  | 2083 | 2083  | 2083 |      |
| 5°  | 2093 | 2071  | 2077 | 2070  | 2066 | 199  |
| 15° | 2014 | 1994  | 2002 | 1995  | 1991 | 568  |
| 25° | 1867 | 1845  | 1855 | 1835  | 1833 | 859  |
| 35° | 1645 | 1626  | 1631 | 1609  | 1607 | 1027 |
| 45° | 1331 | 1314  | 1308 | 1284  | 1281 | 1020 |
| 55° | 872  | 858   | 852  | 838   | 834  | 781  |
| 65° | 468  | 465   | 470  | 466   | 466  | 474  |
| 75° | 253  | 253   | 253  | 255   | 255  | 267  |
| 85° | 65   | 68    | 72   | 72    | 72   | 78   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2082.7 | 2082.7 | 2082.7 | 2082.7 | 2082.7 |
| 2.5°  | 2095.6 | 2077.4 | 2082.7 | 2078.2 | 2068.3 |
| 5°    | 2093.4 | 2070.6 | 2077.3 | 2070.0 | 2066.5 |
| 7.5°  | 2077.3 | 2054.9 | 2061.5 | 2054.3 | 2052.2 |
| 10°   | 2063.0 | 2041.9 | 2048.6 | 2041.3 | 2037.8 |
| 12.5° | 2047.2 | 2024.7 | 2032.8 | 2024.1 | 2020.6 |
| 15°   | 2014.5 | 1993.5 | 2002.0 | 1994.7 | 1991.2 |
| 17.5° | 1978.6 | 1956.2 | 1964.6 | 1956.3 | 1951.7 |
| 20°   | 1949.9 | 1928.9 | 1937.4 | 1924.8 | 1923.0 |
| 22.5° | 1918.4 | 1897.3 | 1905.8 | 1888.9 | 1888.6 |
| 25°   | 1867.4 | 1844.6 | 1854.9 | 1835.1 | 1833.3 |
| 27.5° | 1806.8 | 1785.7 | 1794.2 | 1774.1 | 1772.0 |
| 30°   | 1765.2 | 1744.1 | 1752.6 | 1731.0 | 1727.5 |
| 32.5° | 1717.8 | 1698.2 | 1705.3 | 1683.7 | 1681.6 |
| 35°   | 1645.0 | 1625.7 | 1630.6 | 1609.1 | 1607.3 |
| 37.5° | 1562.1 | 1544.6 | 1547.4 | 1523.7 | 1521.9 |
| 40°   | 1503.3 | 1485.7 | 1487.1 | 1462.0 | 1460.2 |
| 42.5° | 1438.7 | 1421.1 | 1419.7 | 1394.5 | 1392.8 |
| 45°   | 1331.1 | 1313.5 | 1307.7 | 1284.3 | 1280.8 |
| 47.5° | 1208.4 | 1190.8 | 1180.0 | 1160.9 | 1158.5 |
| 50°   | 1119.4 | 1101.8 | 1092.5 | 1076.2 | 1070.9 |
| 52.5° | 1023.2 | 1005.7 | 997.8  | 982.9  | 977.7  |
| 55°   | 871.8  | 857.8  | 852.1  | 837.7  | 834.1  |
| 57.5° | 728.0  | 718.5  | 716.8  | 702.8  | 701.4  |
| 60°   | 640.4  | 635.1  | 635.0  | 622.5  | 622.5  |
| 62.5° | 565.8  | 561.9  | 564.7  | 556.4  | 555.0  |
| 65°   | 468.2  | 464.7  | 470.0  | 466.4  | 466.4  |
| 67.5° | 391.1  | 391.1  | 394.3  | 392.9  | 392.9  |
| 70°   | 348.0  | 348.0  | 349.8  | 349.8  | 349.8  |
| 72.5° | 309.3  | 307.9  | 312.5  | 312.5  | 311.1  |
| 75°   | 252.9  | 252.9  | 252.9  | 254.7  | 254.7  |
| 77.5° | 197.0  | 197.3  | 198.8  | 198.4  | 197.0  |
| 80°   | 159.7  | 161.4  | 161.4  | 159.7  | 159.7  |
| 82.5° | 122.3  | 124.1  | 124.1  | 123.7  | 122.3  |
| 85°   | 64.6   | 68.1   | 71.8   | 71.8   | 71.8   |
| 87.5° | 18.7   | 24.3   | 28.7   | 28.7   | 27.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)