

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: P521910

Luminaire Tested: **SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521910  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-125D-93050-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

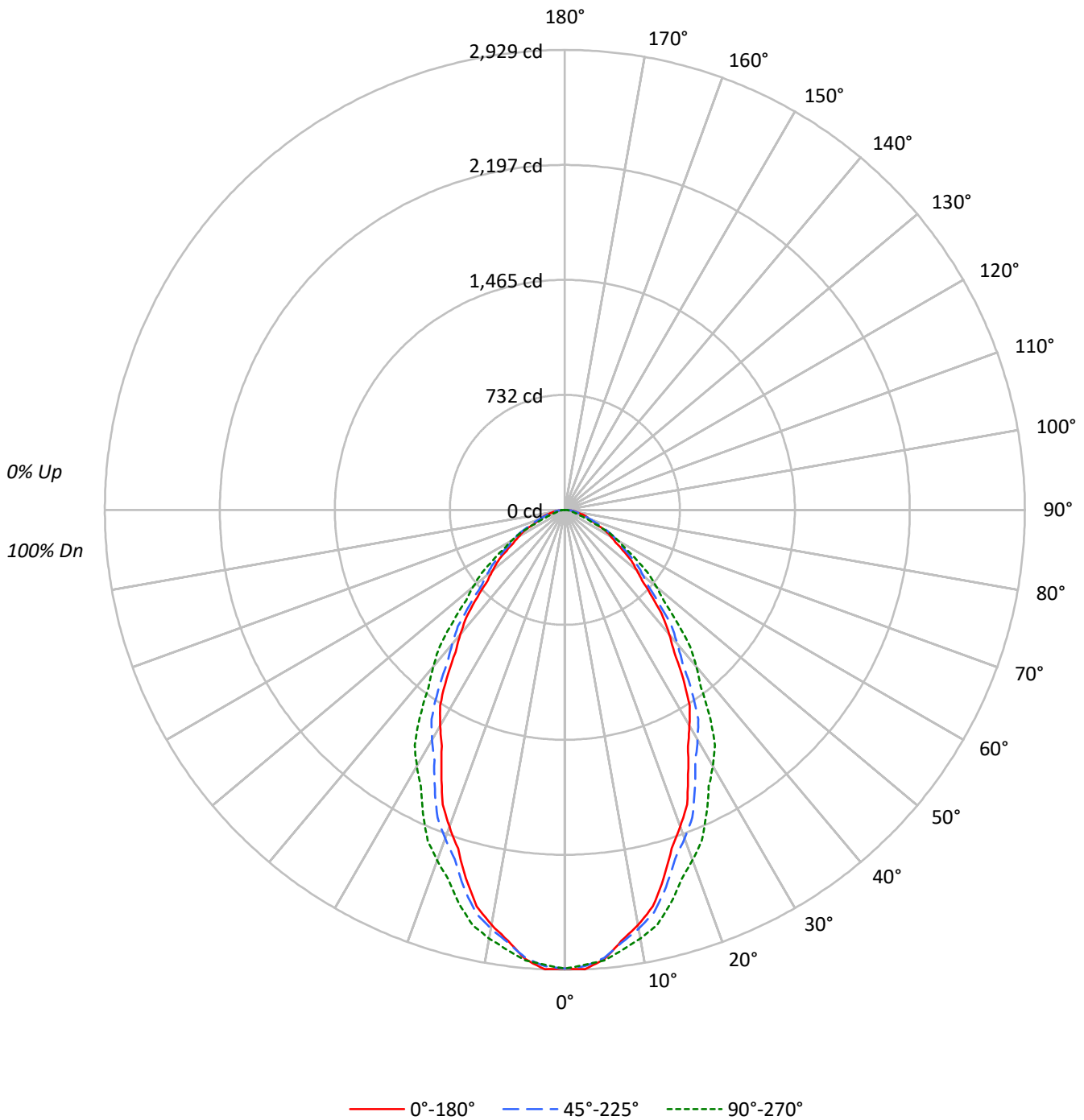
Lumens per Lamp: N/A  
Luminaire Lumens: 4257.1 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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 |    |    |    | 100 |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |    | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    | 78  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 64  | 62  |    |    |    | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |    | 55  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 50  |    |    |    | 50  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    | 45  |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 41  |    |    |    | 41  |
| 9   | 64  | 53  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |    | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    | 35  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 26954 | 26954 | 26954 |
| 5°  | 26617 | 26523 | 26677 |
| 10° | 25148 | 25377 | 25965 |
| 15° | 23215 | 23754 | 24819 |
| 20° | 21082 | 21874 | 23322 |
| 25° | 18909 | 19940 | 21728 |
| 30° | 16907 | 18013 | 20075 |
| 35° | 14785 | 15853 | 18120 |
| 40° | 12444 | 13433 | 15686 |
| 45° | 10270 | 11156 | 13096 |
| 50° | 8575  | 9347  | 10911 |
| 55° | 7279  | 8022  | 9011  |
| 60° | 6220  | 6955  | 7191  |
| 65° | 4953  | 5849  | 4646  |
| 70° | 4392  | 4564  | 2835  |
| 75° | 4067  | 3700  | 1736  |
| 80° | 3746  | 3406  | 1498  |
| 85° | 3387  | 3123  | 1217  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 268.0  | 6.3       |
| 10°-20°   | 697.0  | 16.4      |
| 20°-30°   | 902.8  | 21.2      |
| 30°-40°   | 884.1  | 20.8      |
| 40°-50°   | 676.7  | 15.9      |
| 50°-60°   | 450.9  | 10.6      |
| 60°-70°   | 246.1  | 5.8       |
| 70°-80°   | 102.5  | 2.4       |
| 80°-90°   | 29.0   | 0.7       |
| 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°    | 1867.8 | 43.9      |
| 0°-40°    | 2751.8 | 64.6      |
| 0°-60°    | 3879.5 | 91.1      |
| 0°-90°    | 4257.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4257.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2922 | 2922  | 2922 | 2922  | 2922 |      |
| 5°  | 2874 | 2845  | 2864 | 2870  | 2880 | 267  |
| 15° | 2430 | 2422  | 2487 | 2554  | 2598 | 679  |
| 25° | 1858 | 1862  | 1959 | 2044  | 2134 | 854  |
| 35° | 1313 | 1319  | 1408 | 1502  | 1609 | 816  |
| 45° | 787  | 802   | 855  | 920   | 1004 | 614  |
| 55° | 452  | 471   | 499  | 518   | 560  | 410  |
| 65° | 227  | 246   | 268  | 234   | 213  | 236  |
| 75° | 114  | 114   | 104  | 71    | 49   | 122  |
| 85° | 32   | 32    | 30   | 19    | 12   | 36   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2921.5 | 2921.5 | 2921.5 | 2921.5 | 2921.5 |
| 2.5°  | 2928.6 | 2902.6 | 2909.1 | 2909.0 | 2900.9 |
| 5°    | 2874.0 | 2845.2 | 2863.8 | 2870.4 | 2880.4 |
| 7.5°  | 2767.4 | 2745.6 | 2779.4 | 2804.5 | 2824.8 |
| 10°   | 2684.3 | 2665.5 | 2708.7 | 2745.2 | 2771.5 |
| 12.5° | 2587.9 | 2572.1 | 2625.6 | 2674.6 | 2708.9 |
| 15°   | 2430.5 | 2421.7 | 2486.9 | 2554.5 | 2598.4 |
| 17.5° | 2262.0 | 2257.8 | 2332.5 | 2411.5 | 2467.7 |
| 20°   | 2147.2 | 2145.9 | 2227.9 | 2310.2 | 2375.4 |
| 22.5° | 2031.3 | 2034.1 | 2120.3 | 2205.8 | 2280.0 |
| 25°   | 1857.5 | 1862.5 | 1958.7 | 2044.1 | 2134.4 |
| 27.5° | 1696.7 | 1699.0 | 1798.5 | 1888.6 | 1984.9 |
| 30°   | 1587.0 | 1593.3 | 1690.8 | 1784.1 | 1884.4 |
| 32.5° | 1477.3 | 1484.5 | 1580.1 | 1676.5 | 1778.8 |
| 35°   | 1312.7 | 1318.9 | 1407.5 | 1502.2 | 1608.8 |
| 37.5° | 1142.9 | 1151.5 | 1230.1 | 1319.7 | 1424.4 |
| 40°   | 1033.2 | 1045.7 | 1115.3 | 1199.6 | 1302.4 |
| 42.5° | 927.6  | 943.1  | 1007.6 | 1087.6 | 1180.4 |
| 45°   | 787.1  | 802.1  | 855.0  | 919.8  | 1003.7 |
| 47.5° | 666.1  | 683.4  | 724.0  | 779.7  | 851.4  |
| 50°   | 597.4  | 613.7  | 651.2  | 692.5  | 760.2  |
| 52.5° | 536.9  | 553.2  | 586.6  | 618.4  | 676.1  |
| 55°   | 452.5  | 471.3  | 498.7  | 517.6  | 560.2  |
| 57.5° | 383.3  | 401.3  | 423.0  | 431.6  | 457.4  |
| 60°   | 337.1  | 357.2  | 376.9  | 375.9  | 389.7  |
| 62.5° | 295.1  | 312.1  | 331.8  | 318.2  | 318.9  |
| 65°   | 226.9  | 245.7  | 267.9  | 234.1  | 212.8  |
| 67.5° | 183.3  | 187.3  | 210.2  | 163.3  | 137.9  |
| 70°   | 162.8  | 162.8  | 169.2  | 126.4  | 105.1  |
| 72.5° | 143.3  | 143.3  | 137.4  | 102.8  | 80.5   |
| 75°   | 114.1  | 114.1  | 103.8  | 71.3   | 48.7   |
| 77.5° | 87.9   | 86.9   | 79.5   | 53.2   | 35.4   |
| 80°   | 70.5   | 70.5   | 64.1   | 42.0   | 28.2   |
| 82.5° | 55.1   | 55.1   | 49.7   | 32.8   | 21.0   |
| 85°   | 32.0   | 32.0   | 29.5   | 19.1   | 11.5   |
| 87.5° | 11.3   | 11.3   | 10.3   | 6.1    | 5.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)