

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: P845355

Luminaire Tested: **SQ4P-WB-0U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-0U-100D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

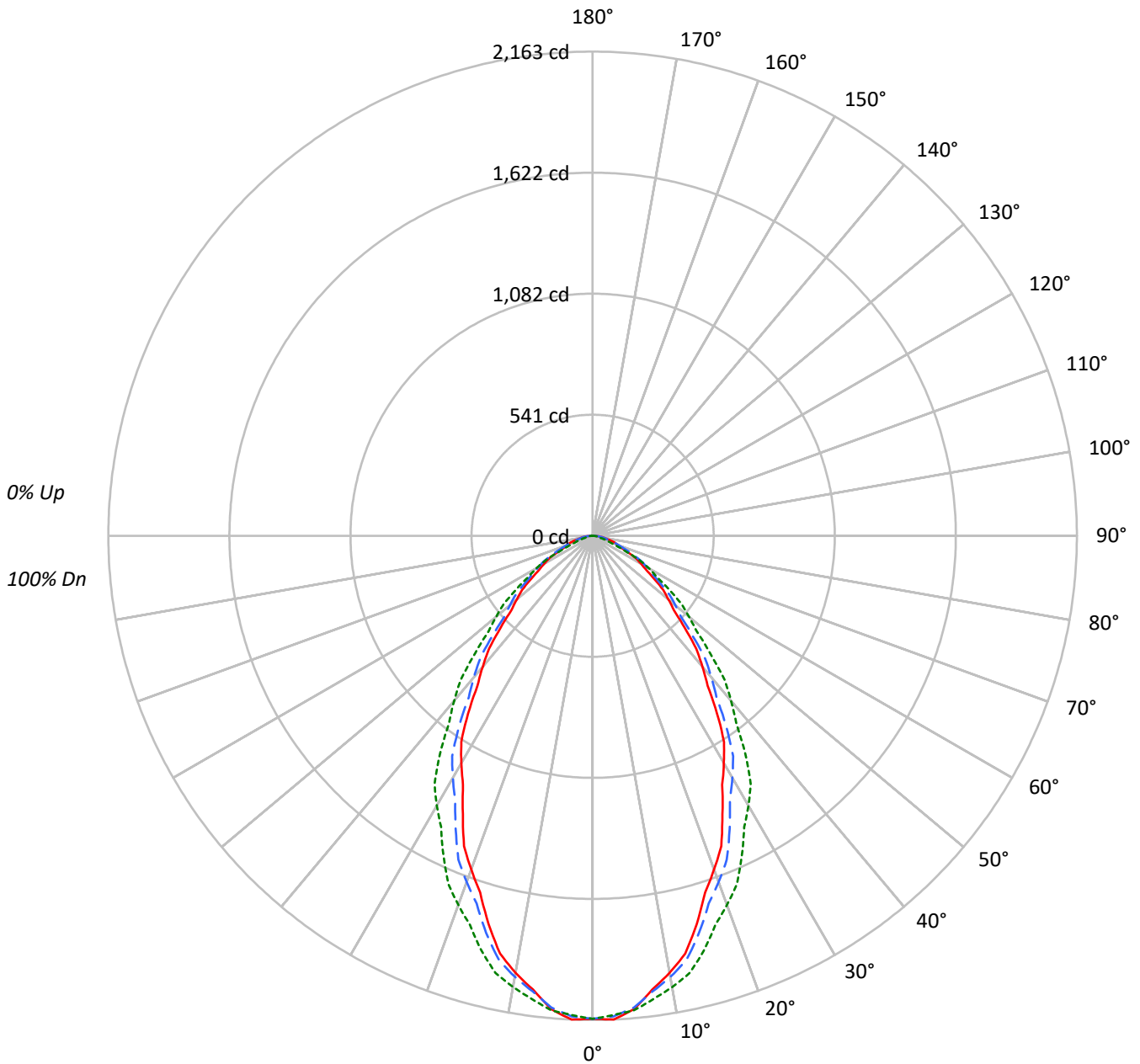
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3144.6 lumens  
Efficiency: N/A  
Efficacy: 90.1 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): 34.9  
Input Voltage (V): NR  
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: 25 FT

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### Luminous Intensity Polar Plot





TEST NUMBER: P845355

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 64  | 62  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 50  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 58  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 64  | 53  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 19910 | 19910 | 19910 |
| 5°  | 19662 | 19592 | 19707 |
| 10° | 18576 | 18745 | 19178 |
| 15° | 17148 | 17547 | 18333 |
| 20° | 15573 | 16158 | 17227 |
| 25° | 13968 | 14729 | 16051 |
| 30° | 12490 | 13304 | 14829 |
| 35° | 10920 | 11709 | 13386 |
| 40° | 9191  | 9922  | 11587 |
| 45° | 7585  | 8240  | 9674  |
| 50° | 6331  | 6904  | 8058  |
| 55° | 5376  | 5923  | 6655  |
| 60° | 4595  | 5137  | 5312  |
| 65° | 3659  | 4320  | 3430  |
| 70° | 3245  | 3372  | 2093  |
| 75° | 3002  | 2734  | 1283  |
| 80° | 2768  | 2518  | 1105  |
| 85° | 2488  | 2318  | 900   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.9  | 6.3       |
| 10°-20°   | 514.9  | 16.4      |
| 20°-30°   | 666.9  | 21.2      |
| 30°-40°   | 653.0  | 20.8      |
| 40°-50°   | 499.8  | 15.9      |
| 50°-60°   | 333.1  | 10.6      |
| 60°-70°   | 181.8  | 5.8       |
| 70°-80°   | 75.8   | 2.4       |
| 80°-90°   | 21.4   | 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°    | 1379.7 | 43.9      |
| 0°-40°    | 2032.7 | 64.6      |
| 0°-60°    | 2865.6 | 91.1      |
| 0°-90°    | 3144.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3144.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2158 | 2158  | 2158 | 2158  | 2158 |      |
| 5°  | 2123 | 2102  | 2115 | 2120  | 2128 | 197  |
| 15° | 1795 | 1789  | 1837 | 1887  | 1919 | 501  |
| 25° | 1372 | 1376  | 1447 | 1510  | 1577 | 631  |
| 35° | 970  | 974   | 1040 | 1110  | 1188 | 603  |
| 45° | 581  | 592   | 632  | 679   | 741  | 453  |
| 55° | 334  | 348   | 368  | 382   | 414  | 303  |
| 65° | 168  | 182   | 198  | 173   | 157  | 174  |
| 75° | 84   | 84    | 77   | 53    | 36   | 90   |
| 85° | 24   | 24    | 22   | 14    | 8    | 27   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P845355

CATALOG NUMBER: SQ4P-WB-OU-100D-B40-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2158.0 | 2158.0 | 2158.0 | 2158.0 | 2158.0 |
| 2.5°  | 2163.3 | 2144.1 | 2149.0 | 2148.8 | 2142.8 |
| 5°    | 2123.0 | 2101.6 | 2115.4 | 2120.2 | 2127.8 |
| 7.5°  | 2044.1 | 2028.1 | 2053.2 | 2071.6 | 2086.6 |
| 10°   | 1982.8 | 1968.9 | 2000.8 | 2027.9 | 2047.1 |
| 12.5° | 1911.7 | 1899.8 | 1939.6 | 1975.5 | 2001.1 |
| 15°   | 1795.3 | 1788.9 | 1837.1 | 1887.1 | 1919.4 |
| 17.5° | 1671.0 | 1667.8 | 1723.0 | 1781.3 | 1822.7 |
| 20°   | 1586.1 | 1585.2 | 1645.7 | 1706.5 | 1754.6 |
| 22.5° | 1500.5 | 1502.4 | 1566.1 | 1629.4 | 1684.2 |
| 25°   | 1372.1 | 1375.8 | 1446.9 | 1510.0 | 1576.7 |
| 27.5° | 1253.4 | 1255.1 | 1328.4 | 1395.1 | 1466.2 |
| 30°   | 1172.4 | 1176.8 | 1248.8 | 1317.9 | 1391.9 |
| 32.5° | 1091.4 | 1096.7 | 1167.2 | 1238.4 | 1313.9 |
| 35°   | 969.5  | 974.3  | 1039.6 | 1109.8 | 1188.5 |
| 37.5° | 844.2  | 850.5  | 908.7  | 974.7  | 1052.3 |
| 40°   | 763.1  | 772.5  | 823.8  | 886.2  | 962.1  |
| 42.5° | 685.1  | 696.7  | 744.2  | 803.5  | 871.8  |
| 45°   | 581.3  | 592.5  | 631.5  | 679.3  | 741.4  |
| 47.5° | 492.0  | 504.8  | 534.8  | 576.0  | 628.9  |
| 50°   | 441.1  | 453.3  | 481.0  | 511.5  | 561.4  |
| 52.5° | 396.5  | 408.6  | 433.3  | 456.8  | 499.5  |
| 55°   | 334.2  | 348.1  | 368.2  | 382.4  | 413.7  |
| 57.5° | 283.2  | 296.4  | 312.5  | 318.7  | 337.8  |
| 60°   | 249.0  | 263.9  | 278.4  | 277.6  | 287.9  |
| 62.5° | 218.0  | 230.6  | 245.0  | 234.9  | 235.6  |
| 65°   | 167.6  | 181.6  | 197.9  | 173.0  | 157.1  |
| 67.5° | 135.5  | 138.3  | 155.2  | 120.6  | 101.8  |
| 70°   | 120.3  | 120.3  | 125.0  | 93.4   | 77.6   |
| 72.5° | 105.9  | 105.9  | 101.7  | 75.9   | 59.4   |
| 75°   | 84.2   | 84.2   | 76.7   | 52.7   | 36.0   |
| 77.5° | 64.9   | 64.3   | 58.7   | 39.2   | 26.2   |
| 80°   | 52.1   | 52.1   | 47.4   | 31.1   | 20.8   |
| 82.5° | 40.7   | 40.7   | 36.6   | 24.2   | 15.4   |
| 85°   | 23.5   | 23.5   | 21.9   | 14.1   | 8.5    |
| 87.5° | 8.3    | 8.3    | 7.5    | 4.5    | 3.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)