

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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

Brand: CORELITE

Report Number: P1055122

Luminaire Tested: SQ4R-PH1-125D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1055122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/23/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-125D-927-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
1250 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

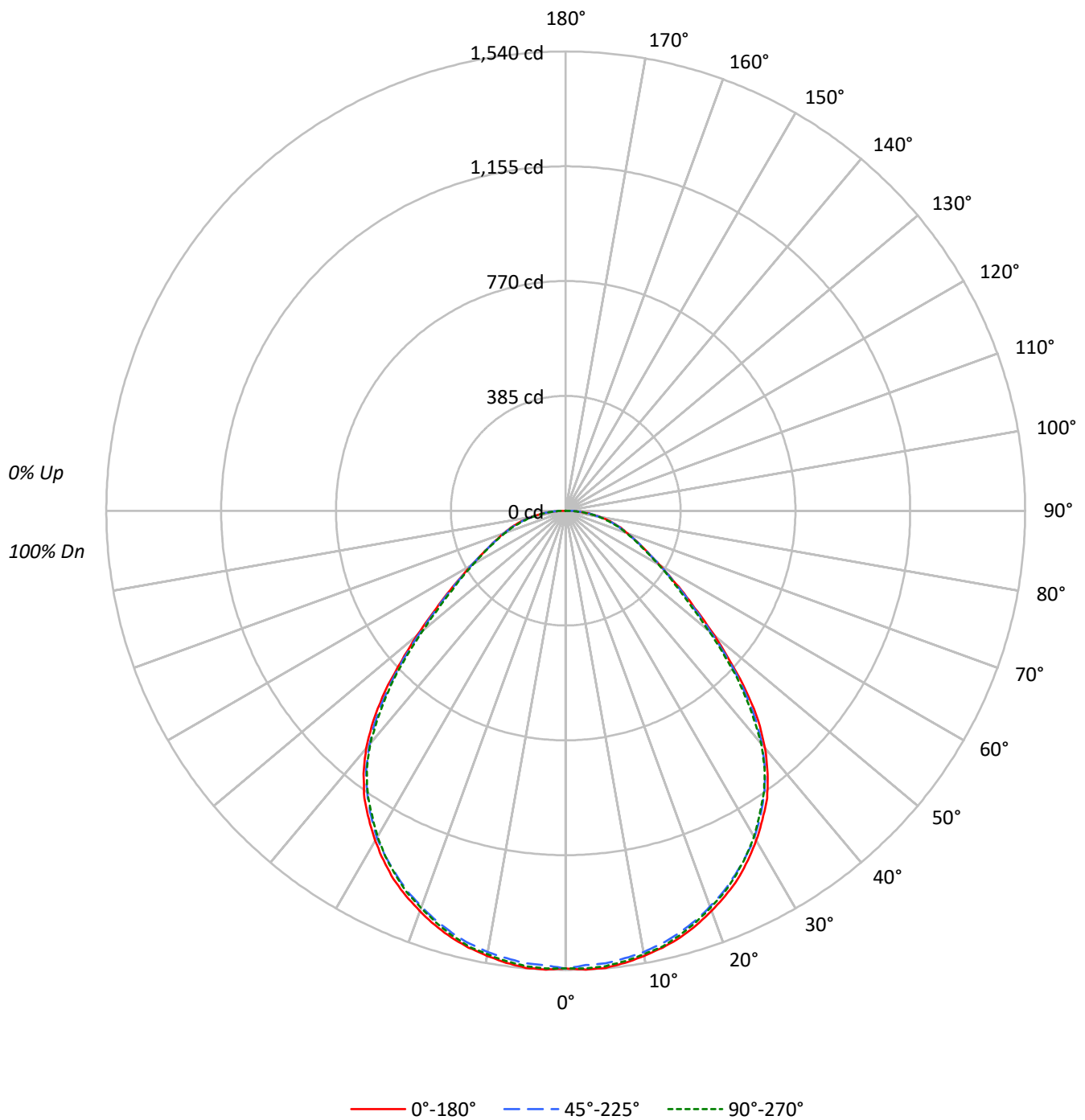
Lumens per Lamp: N/A  
Luminaire Lumens: 3500.9 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.5  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  |  | 95  | 93  | 91  |  | 92  |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  |  | 85  | 81  | 77  |  | 82  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 73  |
| 4   | 86  | 75  | 66  | 60  | 83  | 73  | 66  | 60  | 71  | 64  | 59  |  | 69  | 63  | 58  |  | 66  |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 52  | 64  | 57  | 52  |  | 62  | 56  | 51  |  | 60  |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 46  | 58  | 51  | 46  |  | 57  | 50  | 46  |  | 55  |
| 7   | 68  | 56  | 47  | 42  | 67  | 55  | 47  | 41  | 53  | 46  | 41  |  | 52  | 46  | 41  |  | 51  |
| 8   | 64  | 51  | 43  | 37  | 62  | 50  | 43  | 37  | 49  | 42  | 37  |  | 48  | 42  | 37  |  | 47  |
| 9   | 60  | 47  | 39  | 34  | 58  | 47  | 39  | 34  | 45  | 39  | 34  |  | 44  | 38  | 34  |  | 43  |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 31  |  | 41  | 35  | 31  |  | 40  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14776 | 14776 | 14776 |
| 5°  | 14869 | 14722 | 14814 |
| 10° | 14818 | 14689 | 14763 |
| 15° | 14768 | 14617 | 14692 |
| 20° | 14637 | 14482 | 14521 |
| 25° | 14491 | 14291 | 14331 |
| 30° | 14197 | 14070 | 14028 |
| 35° | 13830 | 13629 | 13606 |
| 40° | 13073 | 12859 | 12811 |
| 45° | 11660 | 11429 | 11299 |
| 50° | 9734  | 9535  | 9337  |
| 55° | 8110  | 8015  | 7823  |
| 60° | 6968  | 7005  | 6859  |
| 65° | 6388  | 6344  | 6258  |
| 70° | 6187  | 6134  | 6027  |
| 75° | 6271  | 6130  | 5992  |
| 80° | 6304  | 6198  | 5988  |
| 85° | 6064  | 6064  | 5656  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 11660 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.6  | 4.2       |
| 10°-20°   | 415.9  | 11.9      |
| 20°-30°   | 623.0  | 17.8      |
| 30°-40°   | 724.9  | 20.7      |
| 40°-50°   | 644.7  | 18.4      |
| 50°-60°   | 432.9  | 12.4      |
| 60°-70°   | 279.8  | 8.0       |
| 70°-80°   | 174.4  | 5.0       |
| 80°-90°   | 59.8   | 1.7       |
| 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°    | 1184.4 | 33.8      |
| 0°-40°    | 1909.3 | 54.5      |
| 0°-60°    | 2986.9 | 85.3      |
| 0°-90°    | 3500.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3500.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1535 | 1535  | 1535 | 1535  | 1535 |      |
| 5°  | 1539 | 1535  | 1523 | 1535  | 1533 | 146  |
| 15° | 1482 | 1478  | 1466 | 1476  | 1474 | 418  |
| 25° | 1364 | 1358  | 1345 | 1353  | 1349 | 627  |
| 35° | 1177 | 1171  | 1160 | 1160  | 1158 | 731  |
| 45° | 856  | 853   | 839  | 828   | 830  | 655  |
| 55° | 483  | 483   | 478  | 470   | 466  | 438  |
| 65° | 280  | 282   | 278  | 277   | 275  | 281  |
| 75° | 169  | 167   | 165  | 165   | 161  | 177  |
| 85° | 55   | 57    | 55   | 53    | 51   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1534.8 | 1534.8 | 1534.8 | 1534.8 | 1534.8 |
| 2.5°  | 1540.4 | 1536.7 | 1525.3 | 1538.6 | 1536.7 |
| 5°    | 1538.6 | 1534.8 | 1523.4 | 1534.8 | 1532.9 |
| 7.5°  | 1529.1 | 1527.2 | 1513.9 | 1527.2 | 1523.4 |
| 10°   | 1515.8 | 1515.8 | 1502.6 | 1513.9 | 1510.1 |
| 12.5° | 1500.7 | 1498.8 | 1487.4 | 1498.8 | 1496.9 |
| 15°   | 1481.7 | 1477.9 | 1466.5 | 1476.0 | 1474.1 |
| 17.5° | 1457.1 | 1455.2 | 1441.9 | 1451.4 | 1447.6 |
| 20°   | 1428.7 | 1424.9 | 1413.5 | 1421.1 | 1417.3 |
| 22.5° | 1398.3 | 1394.5 | 1383.2 | 1388.9 | 1387.0 |
| 25°   | 1364.2 | 1358.5 | 1345.3 | 1352.9 | 1349.1 |
| 27.5° | 1322.5 | 1320.7 | 1307.4 | 1311.2 | 1307.4 |
| 30°   | 1277.1 | 1275.2 | 1265.7 | 1265.7 | 1261.9 |
| 32.5° | 1227.8 | 1229.7 | 1214.5 | 1216.4 | 1208.9 |
| 35°   | 1176.7 | 1171.0 | 1159.6 | 1159.6 | 1157.7 |
| 37.5° | 1112.2 | 1108.4 | 1099.0 | 1097.1 | 1095.2 |
| 40°   | 1040.2 | 1036.4 | 1023.2 | 1019.4 | 1019.4 |
| 42.5° | 955.0  | 951.2  | 937.9  | 932.2  | 924.6  |
| 45°   | 856.4  | 852.6  | 839.4  | 828.0  | 829.9  |
| 47.5° | 746.5  | 750.3  | 737.1  | 727.6  | 725.7  |
| 50°   | 649.9  | 648.0  | 636.6  | 631.0  | 623.4  |
| 52.5° | 557.1  | 559.0  | 549.5  | 545.7  | 536.2  |
| 55°   | 483.2  | 483.2  | 477.5  | 469.9  | 466.1  |
| 57.5° | 416.8  | 420.6  | 415.0  | 411.2  | 407.4  |
| 60°   | 361.9  | 363.8  | 363.8  | 356.2  | 356.2  |
| 62.5° | 316.4  | 318.3  | 316.4  | 312.6  | 312.6  |
| 65°   | 280.4  | 282.3  | 278.5  | 276.6  | 274.7  |
| 67.5° | 248.2  | 250.1  | 248.2  | 246.3  | 242.5  |
| 70°   | 219.8  | 219.8  | 217.9  | 217.9  | 214.1  |
| 72.5° | 195.2  | 193.3  | 191.4  | 191.4  | 189.5  |
| 75°   | 168.6  | 166.7  | 164.8  | 164.8  | 161.1  |
| 77.5° | 142.1  | 140.2  | 140.2  | 136.4  | 134.5  |
| 80°   | 113.7  | 113.7  | 111.8  | 109.9  | 108.0  |
| 82.5° | 87.2   | 85.3   | 83.4   | 81.5   | 79.6   |
| 85°   | 54.9   | 56.8   | 54.9   | 53.1   | 51.2   |
| 87.5° | 24.6   | 26.5   | 26.5   | 26.5   | 24.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 18.20            | 19.72 | 18.57 | 20.03 | 20.34 | 18.05          | 19.56 | 18.41 | 19.87 | 20.19 |
|                 | 3H   | 19.75            | 21.11 | 20.13 | 21.43 | 21.80 | 19.60          | 20.96 | 19.98 | 21.29 | 21.65 |
|                 | 4H   | 20.45            | 21.73 | 20.85 | 22.08 | 22.46 | 20.30          | 21.57 | 20.70 | 21.92 | 22.30 |
|                 | 6H   | 21.07            | 22.25 | 21.48 | 22.62 | 23.01 | 20.88          | 22.06 | 21.30 | 22.43 | 22.82 |
|                 | 8H   | 21.31            | 22.43 | 21.74 | 22.82 | 23.23 | 21.10          | 22.22 | 21.53 | 22.61 | 23.02 |
|                 | 12H  | 21.49            | 22.56 | 21.92 | 22.95 | 23.37 | 21.26          | 22.34 | 21.69 | 22.72 | 23.15 |
| 4H              | 2H   | 18.68            | 19.96 | 19.08 | 20.30 | 20.68 | 18.55          | 19.83 | 18.95 | 20.18 | 20.55 |
|                 | 3H   | 20.50            | 21.56 | 20.91 | 21.96 | 22.36 | 20.39          | 21.44 | 20.80 | 21.84 | 22.25 |
|                 | 4H   | 21.36            | 22.32 | 21.80 | 22.73 | 23.17 | 21.24          | 22.19 | 21.67 | 22.61 | 23.05 |
|                 | 6H   | 22.15            | 22.98 | 22.60 | 23.42 | 23.88 | 21.98          | 22.82 | 22.44 | 23.26 | 23.72 |
|                 | 8H   | 22.45            | 23.23 | 22.92 | 23.68 | 24.14 | 22.26          | 23.04 | 22.73 | 23.49 | 23.96 |
|                 | 12H  | 22.69            | 23.39 | 23.18 | 23.87 | 24.34 | 22.48          | 23.18 | 22.96 | 23.66 | 24.13 |
| 8H              | 4H   | 21.69            | 22.47 | 22.15 | 22.91 | 23.38 | 21.58          | 22.36 | 22.04 | 22.80 | 23.27 |
|                 | 6H   | 22.63            | 23.28 | 23.12 | 23.77 | 24.24 | 22.48          | 23.13 | 22.98 | 23.62 | 24.10 |
|                 | 8H   | 23.03            | 23.62 | 23.55 | 24.13 | 24.61 | 22.86          | 23.44 | 23.37 | 23.95 | 24.44 |
|                 | 12H  | 23.38            | 23.90 | 23.89 | 24.39 | 24.95 | 23.17          | 23.69 | 23.68 | 24.18 | 24.74 |
| 12H             | 4H   | 21.73            | 22.43 | 22.21 | 22.91 | 23.38 | 21.63          | 22.32 | 22.11 | 22.80 | 23.27 |
|                 | 6H   | 22.70            | 23.29 | 23.22 | 23.80 | 24.29 | 22.56          | 23.15 | 23.08 | 23.66 | 24.15 |
|                 | 8H   | 23.18            | 23.70 | 23.69 | 24.19 | 24.75 | 23.01          | 23.53 | 23.52 | 24.02 | 24.58 |