

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: P1055127

Luminaire Tested: SQ4R-PP3-100D-927-1-UNV-STD-W-4

Issue Date: 7/23/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1055127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/23/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PP3-100D-927-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
1000 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

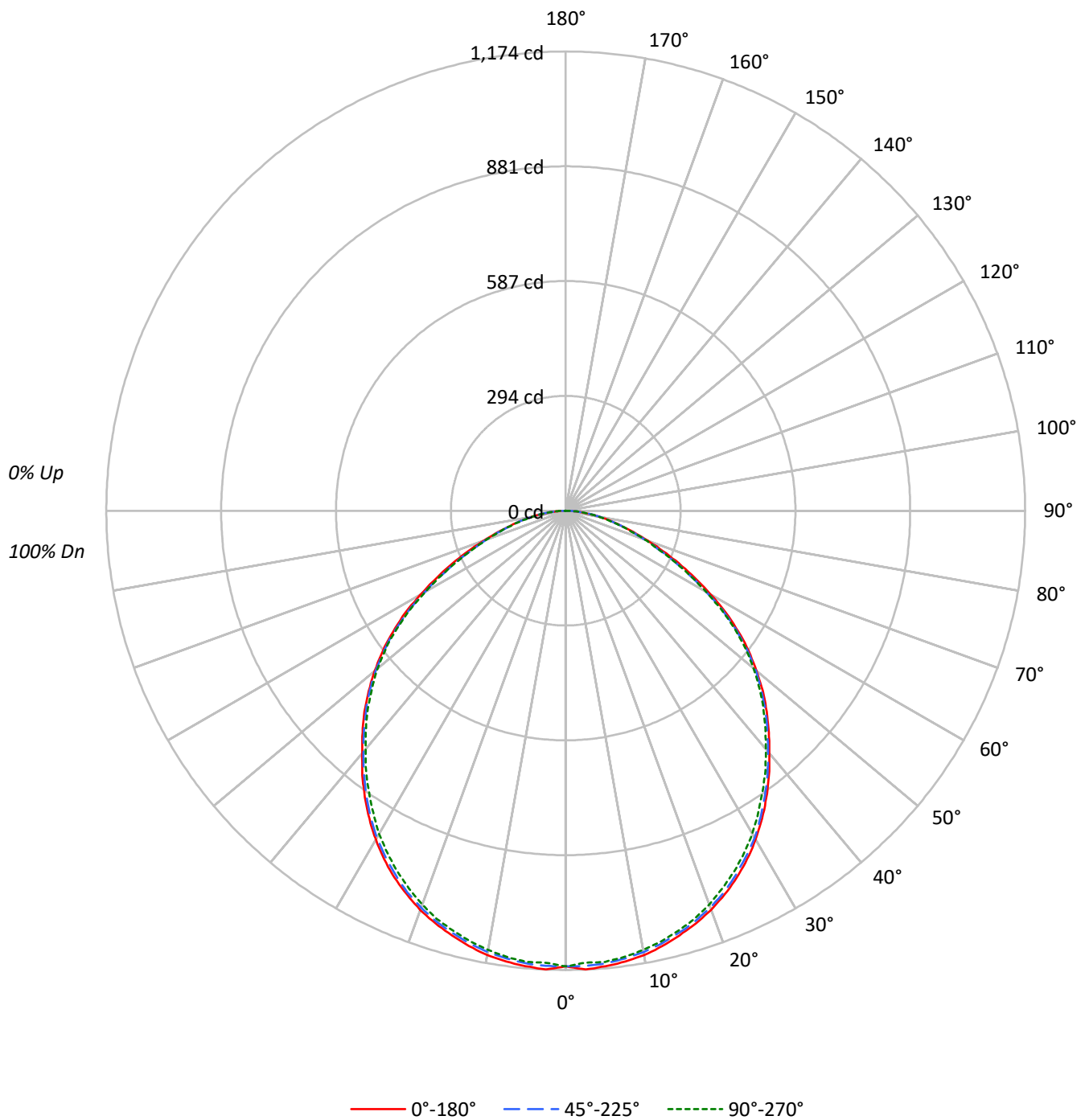
Lumens per Lamp: N/A  
Luminaire Lumens: 2980.7 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  |  | 84  | 79  | 76  |  | 81  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  |  | 74  | 69  | 64  |  | 72  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  |  |  | 66  | 60  | 56  |  | 64  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  |  |  | 60  | 53  | 48  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 49  | 43  | 56  | 49  | 43  |  |  | 54  | 48  | 43  |  | 53  |
| 7   | 66  | 53  | 45  | 39  | 65  | 52  | 44  | 39  | 51  | 44  | 38  |  |  | 49  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 34  | 47  | 39  | 34  |  |  | 45  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  |  |  | 42  | 35  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11213 | 11213 | 11213 |
| 5°  | 11294 | 11226 | 11186 |
| 10° | 11275 | 11196 | 11146 |
| 15° | 11201 | 11140 | 11079 |
| 20° | 11127 | 11064 | 10981 |
| 25° | 10994 | 10919 | 10811 |
| 30° | 10791 | 10734 | 10599 |
| 35° | 10509 | 10436 | 10305 |
| 40° | 10172 | 10108 | 9994  |
| 45° | 9895  | 9826  | 9728  |
| 50° | 9539  | 9479  | 9386  |
| 55° | 9045  | 8926  | 8857  |
| 60° | 8235  | 7998  | 7960  |
| 65° | 7256  | 6953  | 6930  |
| 70° | 6263  | 6004  | 6004  |
| 75° | 5390  | 5315  | 5241  |
| 80° | 4751  | 4812  | 4696  |
| 85° | 3723  | 4054  | 4054  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9895 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.2  | 3.7       |
| 10°-20°   | 314.6  | 10.6      |
| 20°-30°   | 471.3  | 15.8      |
| 30°-40°   | 552.7  | 18.5      |
| 40°-50°   | 554.5  | 18.6      |
| 50°-60°   | 473.4  | 15.9      |
| 60°-70°   | 307.7  | 10.3      |
| 70°-80°   | 154.1  | 5.2       |
| 80°-90°   | 42.2   | 1.4       |
| 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°    | 896.1  | 30.1      |
| 0°-40°    | 1448.8 | 48.6      |
| 0°-60°    | 2476.7 | 83.1      |
| 0°-90°    | 2980.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2980.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1165 | 1165  | 1165 | 1165  | 1165 |      |
| 5°  | 1169 | 1158  | 1162 | 1158  | 1158 | 111  |
| 15° | 1124 | 1113  | 1118 | 1114  | 1112 | 317  |
| 25° | 1035 | 1023  | 1028 | 1019  | 1018 | 476  |
| 35° | 894  | 885   | 888  | 878   | 877  | 559  |
| 45° | 727  | 722   | 722  | 714   | 714  | 560  |
| 55° | 539  | 537   | 532  | 529   | 528  | 480  |
| 65° | 318  | 312   | 305  | 303   | 304  | 317  |
| 75° | 145  | 145   | 143  | 142   | 141  | 157  |
| 85° | 34   | 37    | 37   | 37    | 37   | 40   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1164.7 | 1164.7 | 1164.7 | 1164.7 | 1164.7 |
| 2.5°  | 1173.8 | 1161.6 | 1164.7 | 1162.6 | 1156.5 |
| 5°    | 1168.7 | 1157.5 | 1161.6 | 1157.5 | 1157.5 |
| 7.5°  | 1162.6 | 1150.4 | 1154.4 | 1150.4 | 1150.4 |
| 10°   | 1153.4 | 1141.2 | 1145.3 | 1141.2 | 1140.2 |
| 12.5° | 1140.2 | 1127.9 | 1133.0 | 1127.9 | 1127.9 |
| 15°   | 1123.8 | 1112.6 | 1117.7 | 1113.6 | 1111.6 |
| 17.5° | 1106.5 | 1094.2 | 1100.3 | 1095.2 | 1094.2 |
| 20°   | 1086.1 | 1073.8 | 1079.9 | 1071.8 | 1071.8 |
| 22.5° | 1061.6 | 1049.3 | 1056.5 | 1045.2 | 1045.2 |
| 25°   | 1035.0 | 1022.8 | 1027.9 | 1018.7 | 1017.7 |
| 27.5° | 1004.4 | 992.2  | 997.3  | 987.0  | 987.0  |
| 30°   | 970.7  | 959.5  | 965.6  | 954.4  | 953.4  |
| 32.5° | 934.0  | 923.8  | 927.8  | 916.6  | 915.6  |
| 35°   | 894.2  | 885.0  | 888.0  | 877.8  | 876.8  |
| 37.5° | 853.3  | 843.1  | 847.2  | 838.0  | 838.0  |
| 40°   | 809.4  | 803.3  | 804.3  | 797.2  | 795.2  |
| 42.5° | 768.6  | 761.5  | 762.5  | 755.3  | 755.3  |
| 45°   | 726.8  | 721.7  | 721.7  | 714.5  | 714.5  |
| 47.5° | 682.9  | 678.8  | 677.8  | 671.6  | 671.6  |
| 50°   | 636.9  | 633.9  | 632.9  | 627.8  | 626.7  |
| 52.5° | 589.0  | 587.9  | 583.9  | 579.8  | 579.8  |
| 55°   | 538.9  | 536.9  | 531.8  | 528.7  | 527.7  |
| 57.5° | 485.9  | 481.8  | 476.7  | 471.6  | 472.6  |
| 60°   | 427.7  | 423.6  | 415.4  | 413.4  | 413.4  |
| 62.5° | 371.5  | 366.4  | 358.3  | 355.2  | 357.3  |
| 65°   | 318.5  | 312.3  | 305.2  | 303.2  | 304.2  |
| 67.5° | 269.5  | 263.3  | 255.2  | 255.2  | 254.2  |
| 70°   | 222.5  | 219.5  | 213.3  | 213.3  | 213.3  |
| 72.5° | 180.7  | 179.6  | 175.6  | 175.6  | 174.5  |
| 75°   | 144.9  | 144.9  | 142.9  | 141.9  | 140.9  |
| 77.5° | 114.3  | 114.3  | 113.3  | 112.3  | 110.2  |
| 80°   | 85.7   | 87.8   | 86.8   | 85.7   | 84.7   |
| 82.5° | 59.2   | 61.2   | 61.2   | 59.2   | 59.2   |
| 85°   | 33.7   | 36.7   | 36.7   | 36.7   | 36.7   |
| 87.5° | 11.2   | 15.3   | 16.3   | 16.3   | 17.4   |
| 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 | 19.64            | 21.23 | 20.01 | 21.54 | 21.86 | 19.48          | 21.07 | 19.85 | 21.38 | 21.70 |
|                 | 3H   | 20.95            | 22.38 | 21.33 | 22.71 | 23.07 | 20.75          | 22.18 | 21.13 | 22.50 | 22.86 |
|                 | 4H   | 21.40            | 22.74 | 21.80 | 23.09 | 23.46 | 21.20          | 22.54 | 21.60 | 22.89 | 23.26 |
|                 | 6H   | 21.73            | 22.97 | 22.14 | 23.33 | 23.72 | 21.53          | 22.77 | 21.94 | 23.13 | 23.53 |
|                 | 8H   | 21.83            | 23.01 | 22.25 | 23.40 | 23.80 | 21.64          | 22.82 | 22.06 | 23.21 | 23.61 |
|                 | 12H  | 21.89            | 23.02 | 22.32 | 23.40 | 23.83 | 21.71          | 22.84 | 22.14 | 23.22 | 23.65 |
| 4H              | 2H   | 20.08            | 21.42 | 20.48 | 21.77 | 22.14 | 19.95          | 21.29 | 20.35 | 21.64 | 22.01 |
|                 | 3H   | 21.59            | 22.71 | 22.00 | 23.11 | 23.51 | 21.42          | 22.54 | 21.83 | 22.94 | 23.34 |
|                 | 4H   | 22.16            | 23.17 | 22.59 | 23.58 | 24.02 | 21.99          | 22.99 | 22.42 | 23.41 | 23.85 |
|                 | 6H   | 22.61            | 23.49 | 23.07 | 23.93 | 24.39 | 22.44          | 23.32 | 22.90 | 23.76 | 24.22 |
|                 | 8H   | 22.76            | 23.58 | 23.22 | 24.02 | 24.49 | 22.59          | 23.41 | 23.05 | 23.86 | 24.32 |
|                 | 12H  | 22.86            | 23.59 | 23.34 | 24.07 | 24.54 | 22.70          | 23.44 | 23.19 | 23.92 | 24.39 |
| 8H              | 4H   | 22.36            | 23.18 | 22.83 | 23.63 | 24.09 | 22.21          | 23.03 | 22.67 | 23.47 | 23.94 |
|                 | 6H   | 22.92            | 23.60 | 23.42 | 24.09 | 24.57 | 22.77          | 23.45 | 23.27 | 23.94 | 24.42 |
|                 | 8H   | 23.14            | 23.75 | 23.65 | 24.25 | 24.74 | 22.98          | 23.59 | 23.50 | 24.10 | 24.59 |
|                 | 12H  | 23.30            | 23.84 | 23.80 | 24.33 | 24.89 | 23.16          | 23.70 | 23.67 | 24.19 | 24.75 |
| 12H             | 4H   | 22.38            | 23.11 | 22.86 | 23.59 | 24.06 | 22.23          | 22.96 | 22.71 | 23.44 | 23.91 |
|                 | 6H   | 22.96            | 23.57 | 23.47 | 24.08 | 24.56 | 22.81          | 23.42 | 23.32 | 23.93 | 24.41 |
|                 | 8H   | 23.22            | 23.76 | 23.73 | 24.25 | 24.81 | 23.07          | 23.61 | 23.58 | 24.11 | 24.67 |