

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: P564373

Luminaire Tested: **SQ4-PR1-125U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564373  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

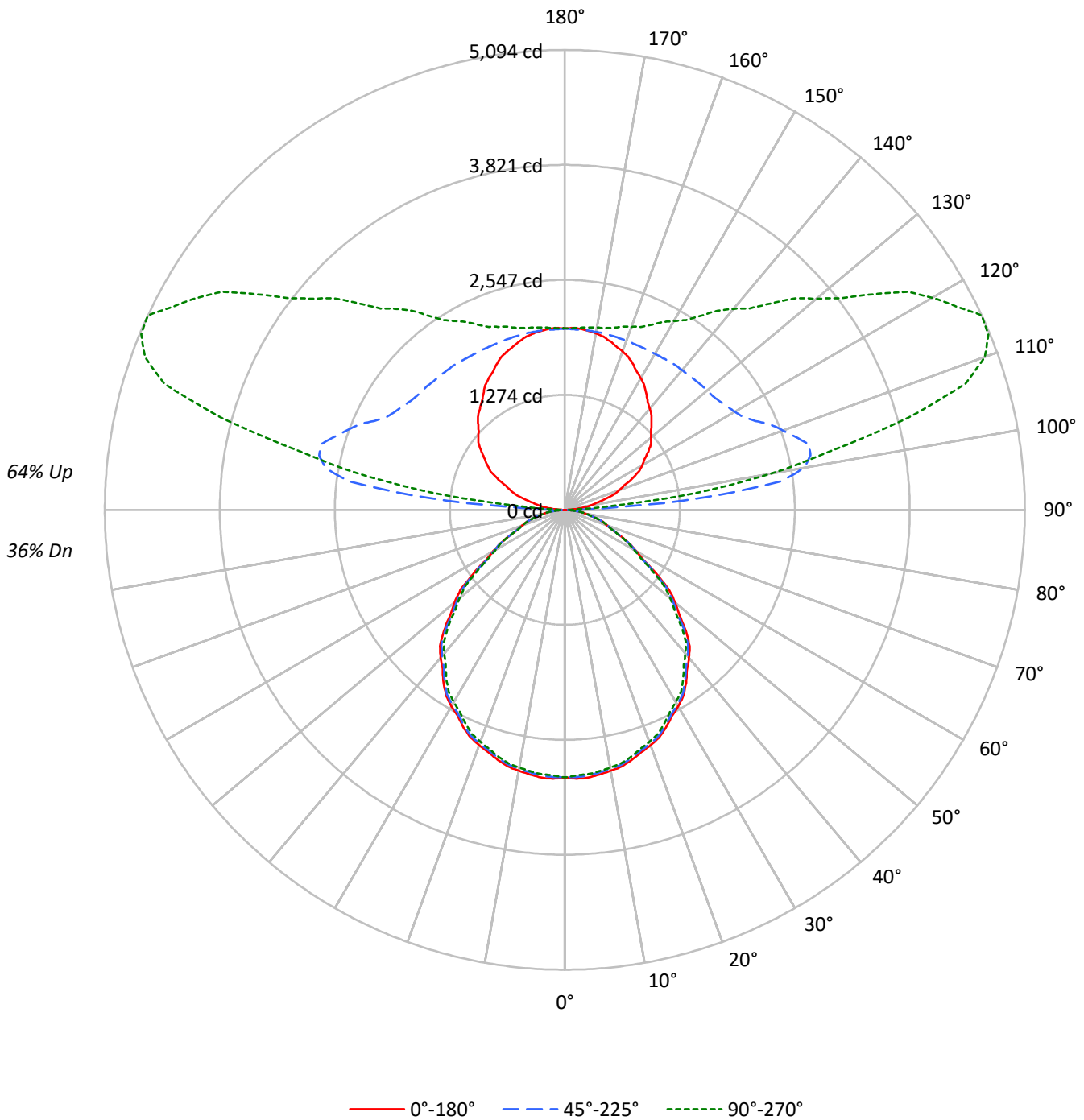
Lumens per Lamp: N/A  
Luminaire Lumens: 20377.3 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |
| 1   | 95  | 91  | 87  | 84  | 86 | 82 | 79 | 76 | 67 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 31 |
| 2   | 87  | 79  | 74  | 69  | 78 | 72 | 67 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 34 | 33 | 32 | 26 |
| 3   | 79  | 70  | 63  | 57  | 71 | 64 | 58 | 53 | 52 | 48 | 44 | 41 | 38 | 35 | 31 | 29 | 27 | 23 |
| 4   | 72  | 62  | 54  | 49  | 65 | 56 | 50 | 45 | 46 | 41 | 38 | 36 | 33 | 30 | 28 | 25 | 24 | 19 |
| 5   | 66  | 55  | 47  | 42  | 60 | 50 | 44 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 21 | 17 |
| 6   | 61  | 49  | 42  | 36  | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7   | 56  | 45  | 37  | 31  | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 23 | 20 | 21 | 18 | 16 | 13 |
| 8   | 52  | 40  | 33  | 28  | 47 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 12 |
| 9   | 49  | 37  | 30  | 25  | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 16 | 17 | 15 | 13 | 11 |
| 10  | 45  | 34  | 27  | 22  | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 16 | 14 | 12 | 10 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9112 | 9112 | 9112 |
| 5°  | 9194 | 9123 | 9076 |
| 10° | 9165 | 9102 | 9054 |
| 15° | 9125 | 9068 | 9019 |
| 20° | 9079 | 9021 | 8954 |
| 25° | 9015 | 8955 | 8850 |
| 30° | 8918 | 8854 | 8728 |
| 35° | 8786 | 8710 | 8585 |
| 40° | 8586 | 8494 | 8340 |
| 45° | 8236 | 8092 | 7925 |
| 50° | 7619 | 7436 | 7290 |
| 55° | 6650 | 6500 | 6363 |
| 60° | 5604 | 5557 | 5447 |
| 65° | 4847 | 4866 | 4828 |
| 70° | 4452 | 4475 | 4475 |
| 75° | 4275 | 4275 | 4306 |
| 80° | 4022 | 4068 | 4022 |
| 85° | 3243 | 3603 | 3603 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 280.2   | 1.4       |
| 10°-20°   | 801.7   | 3.9       |
| 20°-30°   | 1209.2  | 5.9       |
| 30°-40°   | 1440.7  | 7.1       |
| 40°-50°   | 1420.4  | 7.0       |
| 50°-60°   | 1085.6  | 5.3       |
| 60°-70°   | 671.8   | 3.3       |
| 70°-80°   | 381.5   | 1.9       |
| 80°-90°   | 120.8   | 0.6       |
| 90°-100°  | 939.5   | 4.6       |
| 100°-110° | 2530.9  | 12.4      |
| 110°-120° | 2656.1  | 13.0      |
| 120°-130° | 2155.4  | 10.6      |
| 130°-140° | 1690.4  | 8.3       |
| 140°-150° | 1297.8  | 6.4       |
| 150°-160° | 933.1   | 4.6       |
| 160°-170° | 570.1   | 2.8       |
| 170°-180° | 192.2   | 0.9       |
| 0°-30°    | 2291.0  | 11.2      |
| 0°-40°    | 3731.7  | 18.3      |
| 0°-60°    | 6237.7  | 30.6      |
| 0°-90°    | 7411.9  | 36.4      |
| 90°-120°  | 6126.5  | 30.1      |
| 90°-150°  | 11270.0 | 55.3      |
| 90°-180°  | 12965.0 | 63.6      |
| 0°-180°   | 20377.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2963 | 2963  | 2963 | 2963  | 2963 |      |
| 5°   | 2978 | 2946  | 2955 | 2945  | 2940 | 283  |
| 15°  | 2866 | 2836  | 2848 | 2838  | 2833 | 809  |
| 25°  | 2657 | 2624  | 2639 | 2611  | 2608 | 1223 |
| 35°  | 2340 | 2313  | 2320 | 2289  | 2287 | 1461 |
| 45°  | 1894 | 1869  | 1860 | 1827  | 1822 | 1451 |
| 55°  | 1240 | 1220  | 1212 | 1192  | 1187 | 1111 |
| 65°  | 666  | 661   | 669  | 664   | 664  | 675  |
| 75°  | 360  | 360   | 360  | 362   | 362  | 380  |
| 85°  | 92   | 97    | 102  | 102   | 102  | 107  |
| 90°  | 5    | 15    | 31   | 33    | 33   | 14   |
| 95°  | 143  | 511   | 1540 | 788   | 545  | 150  |
| 105° | 468  | 728   | 2799 | 4188  | 3930 | 492  |
| 115° | 826  | 1012  | 2331 | 4504  | 5094 | 813  |
| 125° | 1128 | 1296  | 2093 | 3537  | 4163 | 1007 |
| 135° | 1359 | 1516  | 2034 | 2854  | 3231 | 1049 |
| 145° | 1571 | 1694  | 2008 | 2440  | 2620 | 985  |
| 155° | 1783 | 1848  | 1990 | 2189  | 2259 | 821  |
| 165° | 1934 | 1957  | 1998 | 2078  | 2088 | 545  |
| 175° | 2011 | 2008  | 2001 | 2029  | 2024 | 191  |
| 180° | 2008 | 2008  | 2008 | 2008  | 2008 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2963.0 | 2963.0 | 2963.0 | 2963.0 | 2963.0 |
| 2.5°   | 2981.4 | 2955.4 | 2963.0 | 2956.5 | 2942.6 |
| 5°     | 2978.3 | 2945.9 | 2955.3 | 2945.0 | 2940.0 |
| 7.5°   | 2955.3 | 2923.4 | 2932.9 | 2922.6 | 2919.6 |
| 10°    | 2934.9 | 2905.0 | 2914.5 | 2904.2 | 2899.2 |
| 12.5°  | 2912.5 | 2880.5 | 2892.0 | 2879.7 | 2874.7 |
| 15°    | 2866.0 | 2836.1 | 2848.1 | 2837.8 | 2832.8 |
| 17.5°  | 2815.0 | 2783.0 | 2795.1 | 2783.2 | 2776.7 |
| 20°    | 2774.1 | 2744.2 | 2756.3 | 2738.3 | 2735.9 |
| 22.5°  | 2729.2 | 2699.3 | 2711.4 | 2687.4 | 2686.9 |
| 25°    | 2656.7 | 2624.3 | 2638.9 | 2610.7 | 2608.2 |
| 27.5°  | 2570.5 | 2540.5 | 2552.6 | 2524.0 | 2521.0 |
| 30°    | 2511.3 | 2481.3 | 2493.4 | 2462.7 | 2457.7 |
| 32.5°  | 2443.9 | 2415.9 | 2426.0 | 2395.3 | 2392.3 |
| 35°    | 2340.3 | 2312.8 | 2319.9 | 2289.2 | 2286.7 |
| 37.5°  | 2222.4 | 2197.4 | 2201.4 | 2167.7 | 2165.2 |
| 40°    | 2138.7 | 2113.7 | 2115.7 | 2079.9 | 2077.4 |
| 42.5°  | 2046.8 | 2021.8 | 2019.7 | 1983.9 | 1981.5 |
| 45°    | 1893.7 | 1868.7 | 1860.5 | 1827.2 | 1822.2 |
| 47.5°  | 1719.1 | 1694.1 | 1678.8 | 1651.6 | 1648.1 |
| 50°    | 1592.5 | 1567.6 | 1554.2 | 1531.1 | 1523.6 |
| 52.5°  | 1455.7 | 1430.8 | 1419.5 | 1398.4 | 1390.9 |
| 55°    | 1240.3 | 1220.4 | 1212.2 | 1191.7 | 1186.7 |
| 57.5°  | 1035.6 | 1022.2 | 1019.8 | 999.9  | 997.9  |
| 60°    | 911.1  | 903.6  | 903.4  | 885.6  | 885.6  |
| 62.5°  | 804.9  | 799.4  | 803.4  | 791.6  | 789.6  |
| 65°    | 666.1  | 661.1  | 668.7  | 663.5  | 663.5  |
| 67.5°  | 556.4  | 556.4  | 561.0  | 558.9  | 558.9  |
| 70°    | 495.1  | 495.1  | 497.7  | 497.7  | 497.7  |
| 72.5°  | 440.0  | 438.0  | 444.6  | 444.5  | 442.5  |
| 75°    | 359.8  | 359.8  | 359.8  | 362.4  | 362.4  |
| 77.5°  | 280.2  | 280.7  | 282.8  | 282.2  | 280.2  |
| 80°    | 227.1  | 229.6  | 229.7  | 227.1  | 227.1  |
| 82.5°  | 174.1  | 176.5  | 176.6  | 176.0  | 174.1  |
| 85°    | 91.9   | 96.9   | 102.1  | 102.1  | 102.1  |
| 87.5°  | 27.6   | 37.6   | 47.0   | 47.4   | 45.4   |
| 90°    | 5.1    | 15.1   | 30.7   | 33.3   | 33.3   |
| 92.5°  | 62.4   | 220.5  | 436.0  | 209.9  | 145.8  |
| 95°    | 143.3  | 511.0  | 1540.2 | 787.6  | 545.0  |
| 97.5°  | 228.7  | 585.0  | 2415.7 | 2018.1 | 1521.8 |
| 100°   | 294.2  | 614.4  | 2694.1 | 2818.8 | 2338.5 |
| 102.5° | 357.7  | 655.9  | 2786.2 | 3418.4 | 3024.1 |
| 105°   | 468.2  | 728.4  | 2799.0 | 4187.5 | 3929.8 |
| 107.5° | 572.6  | 804.7  | 2679.8 | 4582.7 | 4649.3 |
| 110°   | 642.2  | 862.3  | 2571.3 | 4705.4 | 4948.1 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 715.9  | 920.0  | 2466.9 | 4678.3 | 5077.1 |
| 115°   | 826.4  | 1011.5 | 2330.8 | 4503.6 | 5093.9 |
| 117.5° | 927.2  | 1100.8 | 2225.4 | 4224.7 | 4882.1 |
| 120°   | 992.7  | 1160.3 | 2172.2 | 4024.5 | 4699.9 |
| 122.5° | 1050.0 | 1215.6 | 2133.3 | 3819.8 | 4493.2 |
| 125°   | 1128.3 | 1295.9 | 2092.8 | 3537.2 | 4162.7 |
| 127.5° | 1203.5 | 1368.6 | 2067.3 | 3288.1 | 3846.4 |
| 130°   | 1248.5 | 1413.6 | 2057.0 | 3145.3 | 3635.6 |
| 132.5° | 1293.6 | 1456.7 | 2046.8 | 3019.5 | 3469.8 |
| 135°   | 1358.6 | 1516.2 | 2034.0 | 2853.6 | 3231.4 |
| 137.5° | 1420.5 | 1571.6 | 2027.3 | 2712.9 | 3023.1 |
| 140°   | 1463.5 | 1608.5 | 2021.2 | 2626.3 | 2906.4 |
| 142.5° | 1508.5 | 1643.6 | 2017.1 | 2545.4 | 2781.6 |
| 145°   | 1570.9 | 1693.5 | 2008.4 | 2439.8 | 2619.9 |
| 147.5° | 1638.5 | 1745.0 | 1999.7 | 2350.9 | 2492.5 |
| 150°   | 1683.5 | 1776.0 | 1995.6 | 2295.1 | 2412.6 |
| 152.5° | 1724.4 | 1805.0 | 1993.6 | 2249.5 | 2345.1 |
| 155°   | 1783.3 | 1848.3 | 1990.5 | 2189.1 | 2259.1 |
| 157.5° | 1834.9 | 1885.5 | 1991.0 | 2146.6 | 2193.6 |
| 160°   | 1867.7 | 1910.2 | 1993.1 | 2121.8 | 2156.8 |
| 162.5° | 1896.3 | 1930.9 | 1995.1 | 2101.1 | 2126.1 |
| 165°   | 1934.2 | 1956.7 | 1998.2 | 2077.7 | 2087.7 |
| 167.5° | 1964.9 | 1977.9 | 2000.7 | 2059.7 | 2063.7 |
| 170°   | 1985.4 | 1990.4 | 2000.7 | 2049.3 | 2049.3 |
| 172.5° | 1997.7 | 1998.7 | 2002.8 | 2039.1 | 2039.1 |
| 175°   | 2011.0 | 2008.5 | 2000.7 | 2028.8 | 2023.8 |
| 177.5° | 2016.6 | 2012.6 | 2002.3 | 2018.6 | 2014.5 |
| 180°   | 2008.4 | 2008.4 | 2008.4 | 2008.4 | 2008.4 |

(END OF REPORT)