

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: P564369

Luminaire Tested: **SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564369  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20481.3 lumens  
Efficiency: N/A  
Efficacy: 118.8 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

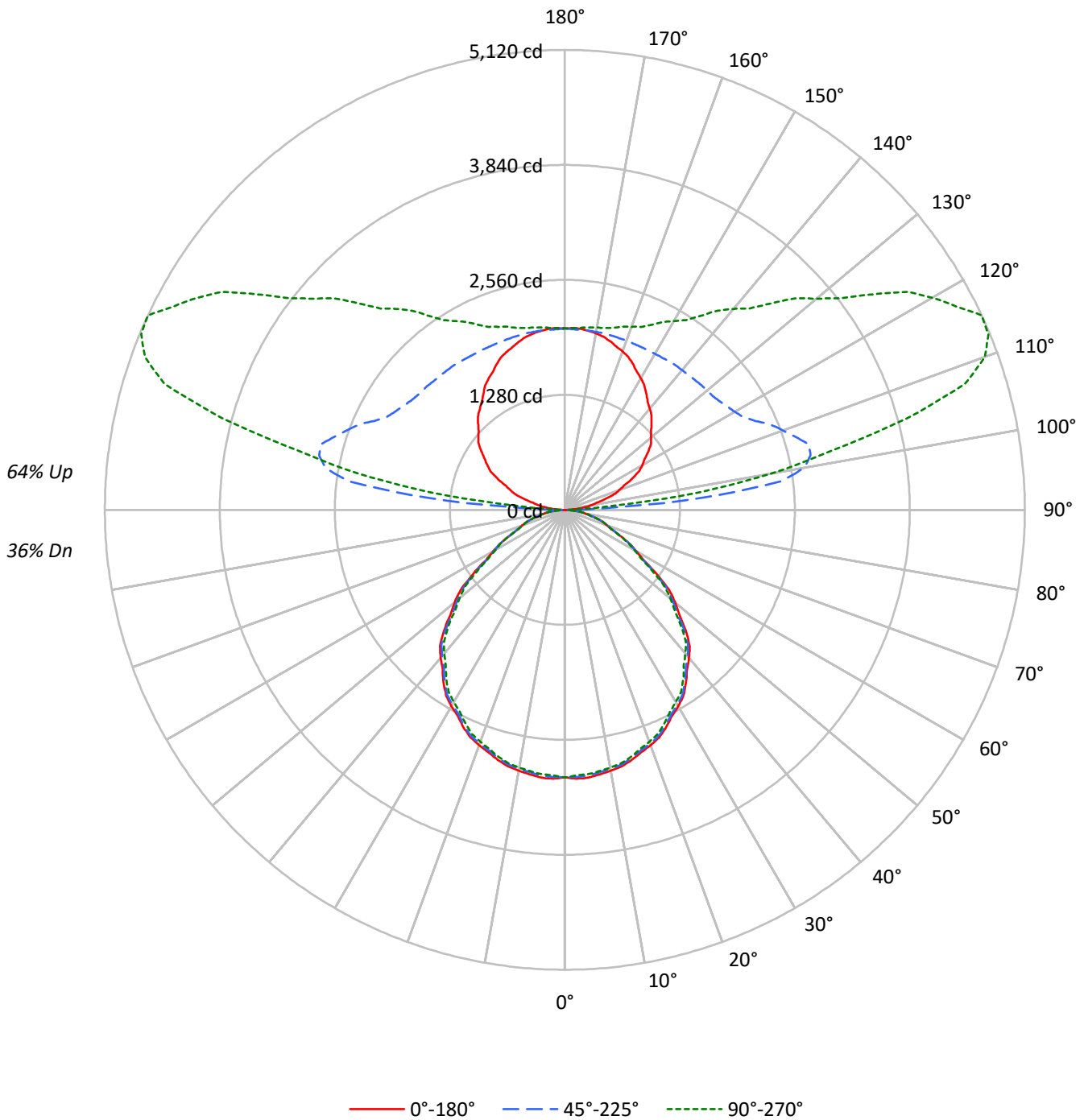
Input Watts (W): 172.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P564369

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P564369

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12

**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°  | 9159 | 9159 | 9159 |
| 5°  | 9241 | 9170 | 9123 |
| 10° | 9212 | 9148 | 9100 |
| 15° | 9172 | 9115 | 9065 |
| 20° | 9125 | 9067 | 8999 |
| 25° | 9061 | 9000 | 8896 |
| 30° | 8964 | 8900 | 8772 |
| 35° | 8831 | 8754 | 8629 |
| 40° | 8630 | 8537 | 8383 |
| 45° | 8278 | 8133 | 7966 |
| 50° | 7658 | 7474 | 7327 |
| 55° | 6685 | 6533 | 6396 |
| 60° | 5633 | 5586 | 5475 |
| 65° | 4872 | 4891 | 4853 |
| 70° | 4474 | 4498 | 4498 |
| 75° | 4298 | 4298 | 4328 |
| 80° | 4043 | 4089 | 4043 |
| 85° | 3257 | 3620 | 3620 |



TEST NUMBER: P564369

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.6   | 1.4       |
| 10°-20°   | 805.8   | 3.9       |
| 20°-30°   | 1215.3  | 5.9       |
| 30°-40°   | 1448.1  | 7.1       |
| 40°-50°   | 1427.7  | 7.0       |
| 50°-60°   | 1091.1  | 5.3       |
| 60°-70°   | 675.2   | 3.3       |
| 70°-80°   | 383.5   | 1.9       |
| 80°-90°   | 121.4   | 0.6       |
| 90°-100°  | 944.3   | 4.6       |
| 100°-110° | 2543.8  | 12.4      |
| 110°-120° | 2669.6  | 13.0      |
| 120°-130° | 2166.3  | 10.6      |
| 130°-140° | 1699.0  | 8.3       |
| 140°-150° | 1304.4  | 6.4       |
| 150°-160° | 937.9   | 4.6       |
| 160°-170° | 573.0   | 2.8       |
| 170°-180° | 193.2   | 0.9       |
| 0°-30°    | 2302.7  | 11.2      |
| 0°-40°    | 3750.8  | 18.3      |
| 0°-60°    | 6269.6  | 30.6      |
| 0°-90°    | 7449.7  | 36.4      |
| 90°-120°  | 6157.8  | 30.1      |
| 90°-150°  | 11327.5 | 55.3      |
| 90°-180°  | 13032.0 | 63.6      |
| 0°-180°   | 20481.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2978 | 2978  | 2978 | 2978  | 2978 |      |
| 5°   | 2994 | 2961  | 2970 | 2960  | 2955 | 284  |
| 15°  | 2881 | 2850  | 2863 | 2852  | 2847 | 813  |
| 25°  | 2670 | 2638  | 2652 | 2624  | 2622 | 1229 |
| 35°  | 2352 | 2325  | 2332 | 2301  | 2298 | 1468 |
| 45°  | 1903 | 1878  | 1870 | 1836  | 1832 | 1458 |
| 55°  | 1247 | 1227  | 1218 | 1198  | 1193 | 1117 |
| 65°  | 670  | 664   | 672  | 667   | 667  | 678  |
| 75°  | 362  | 362   | 362  | 364   | 364  | 382  |
| 85°  | 92   | 97    | 103  | 103   | 103  | 107  |
| 90°  | 5    | 15    | 31   | 33    | 33   | 14   |
| 95°  | 144  | 514   | 1548 | 792   | 548  | 150  |
| 105° | 471  | 732   | 2813 | 4209  | 3950 | 495  |
| 115° | 831  | 1017  | 2343 | 4526  | 5120 | 817  |
| 125° | 1134 | 1302  | 2104 | 3555  | 4184 | 1013 |
| 135° | 1366 | 1524  | 2044 | 2868  | 3248 | 1054 |
| 145° | 1579 | 1702  | 2019 | 2452  | 2633 | 990  |
| 155° | 1792 | 1858  | 2001 | 2200  | 2271 | 825  |
| 165° | 1944 | 1967  | 2008 | 2088  | 2098 | 548  |
| 175° | 2021 | 2019  | 2011 | 2039  | 2034 | 192  |
| 180° | 2019 | 2019  | 2019 | 2019  | 2019 |      |

TEST NUMBER: P564369

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2978.1 | 2978.1 | 2978.1 | 2978.1 | 2978.1 |
| 2.5°   | 2996.6 | 2970.5 | 2978.1 | 2971.6 | 2957.6 |
| 5°     | 2993.5 | 2960.9 | 2970.4 | 2960.0 | 2955.0 |
| 7.5°   | 2970.4 | 2938.3 | 2947.8 | 2937.5 | 2934.5 |
| 10°    | 2949.9 | 2919.8 | 2929.4 | 2919.0 | 2914.0 |
| 12.5°  | 2927.3 | 2895.2 | 2906.8 | 2894.4 | 2889.4 |
| 15°    | 2880.6 | 2850.5 | 2862.7 | 2852.3 | 2847.3 |
| 17.5°  | 2829.3 | 2797.2 | 2809.3 | 2797.4 | 2790.9 |
| 20°    | 2788.3 | 2758.2 | 2770.3 | 2752.3 | 2749.8 |
| 22.5°  | 2743.1 | 2713.1 | 2725.2 | 2701.1 | 2700.6 |
| 25°    | 2670.3 | 2637.7 | 2652.3 | 2624.1 | 2621.6 |
| 27.5°  | 2583.6 | 2553.5 | 2565.6 | 2536.8 | 2533.8 |
| 30°    | 2524.1 | 2494.0 | 2506.1 | 2475.2 | 2470.2 |
| 32.5°  | 2456.4 | 2428.3 | 2438.4 | 2407.6 | 2404.6 |
| 35°    | 2352.2 | 2324.6 | 2331.7 | 2300.9 | 2298.4 |
| 37.5°  | 2233.7 | 2208.6 | 2212.7 | 2178.8 | 2176.3 |
| 40°    | 2149.6 | 2124.5 | 2126.5 | 2090.5 | 2088.0 |
| 42.5°  | 2057.2 | 2032.2 | 2030.0 | 1994.1 | 1991.6 |
| 45°    | 1903.3 | 1878.2 | 1870.0 | 1836.5 | 1831.5 |
| 47.5°  | 1727.9 | 1702.8 | 1687.3 | 1660.1 | 1656.6 |
| 50°    | 1600.6 | 1575.6 | 1562.2 | 1538.9 | 1531.4 |
| 52.5°  | 1463.1 | 1438.1 | 1426.7 | 1405.5 | 1398.0 |
| 55°    | 1246.7 | 1226.6 | 1218.4 | 1197.8 | 1192.8 |
| 57.5°  | 1040.9 | 1027.4 | 1025.0 | 1005.0 | 1003.0 |
| 60°    | 915.8  | 908.2  | 908.1  | 890.1  | 890.1  |
| 62.5°  | 809.0  | 803.5  | 807.5  | 795.7  | 793.7  |
| 65°    | 669.5  | 664.5  | 672.1  | 666.9  | 666.9  |
| 67.5°  | 559.2  | 559.2  | 563.8  | 561.8  | 561.8  |
| 70°    | 497.6  | 497.6  | 500.2  | 500.2  | 500.2  |
| 72.5°  | 442.2  | 440.2  | 446.8  | 446.8  | 444.8  |
| 75°    | 361.7  | 361.7  | 361.7  | 364.2  | 364.2  |
| 77.5°  | 281.7  | 282.2  | 284.2  | 283.7  | 281.7  |
| 80°    | 228.3  | 230.8  | 230.9  | 228.3  | 228.3  |
| 82.5°  | 174.9  | 177.4  | 177.5  | 176.9  | 174.9  |
| 85°    | 92.3   | 97.4   | 102.6  | 102.6  | 102.6  |
| 87.5°  | 27.7   | 37.7   | 47.2   | 47.7   | 45.7   |
| 90°    | 5.1    | 15.2   | 30.9   | 33.4   | 33.4   |
| 92.5°  | 62.7   | 221.7  | 438.2  | 210.9  | 146.6  |
| 95°    | 144.0  | 513.6  | 1548.1 | 791.6  | 547.7  |
| 97.5°  | 229.9  | 587.9  | 2428.0 | 2028.4 | 1529.6 |
| 100°   | 295.7  | 617.6  | 2707.8 | 2833.2 | 2350.4 |
| 102.5° | 359.5  | 659.2  | 2800.4 | 3435.8 | 3039.6 |
| 105°   | 470.6  | 732.1  | 2813.3 | 4208.9 | 3949.9 |
| 107.5° | 575.5  | 808.8  | 2693.4 | 4606.1 | 4673.0 |
| 110°   | 645.5  | 866.7  | 2584.4 | 4729.5 | 4973.4 |

TEST NUMBER: P564369

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 719.5  | 924.7  | 2479.5 | 4702.2 | 5103.0 |
| 115°   | 830.6  | 1016.7 | 2342.7 | 4526.5 | 5119.9 |
| 117.5° | 931.9  | 1106.4 | 2236.7 | 4246.2 | 4907.0 |
| 120°   | 997.8  | 1166.2 | 2183.2 | 4045.0 | 4723.9 |
| 122.5° | 1055.4 | 1221.8 | 2144.2 | 3839.3 | 4516.1 |
| 125°   | 1134.0 | 1302.5 | 2103.5 | 3555.3 | 4183.9 |
| 127.5° | 1209.7 | 1375.6 | 2077.8 | 3304.8 | 3866.1 |
| 130°   | 1254.9 | 1420.9 | 2067.5 | 3161.3 | 3654.2 |
| 132.5° | 1300.2 | 1464.1 | 2057.2 | 3034.9 | 3487.5 |
| 135°   | 1365.5 | 1523.9 | 2044.4 | 2868.2 | 3247.9 |
| 137.5° | 1427.7 | 1579.6 | 2037.7 | 2726.7 | 3038.5 |
| 140°   | 1470.9 | 1616.8 | 2031.5 | 2639.7 | 2921.3 |
| 142.5° | 1516.2 | 1652.0 | 2027.4 | 2558.4 | 2795.8 |
| 145°   | 1578.9 | 1702.1 | 2018.7 | 2452.2 | 2633.3 |
| 147.5° | 1646.8 | 1753.9 | 2009.9 | 2362.9 | 2505.2 |
| 150°   | 1692.1 | 1785.1 | 2005.8 | 2306.8 | 2425.0 |
| 152.5° | 1733.2 | 1814.2 | 2003.7 | 2261.0 | 2357.1 |
| 155°   | 1792.4 | 1857.7 | 2000.7 | 2200.3 | 2270.7 |
| 157.5° | 1844.3 | 1895.1 | 2001.2 | 2157.6 | 2204.8 |
| 160°   | 1877.2 | 1920.0 | 2003.2 | 2132.6 | 2167.8 |
| 162.5° | 1906.0 | 1940.7 | 2005.3 | 2111.8 | 2137.0 |
| 165°   | 1944.1 | 1966.7 | 2008.4 | 2088.3 | 2098.4 |
| 167.5° | 1974.9 | 1988.0 | 2010.9 | 2070.2 | 2074.2 |
| 170°   | 1995.5 | 2000.5 | 2010.9 | 2059.8 | 2059.8 |
| 172.5° | 2007.9 | 2008.9 | 2013.0 | 2049.5 | 2049.5 |
| 175°   | 2021.2 | 2018.7 | 2010.9 | 2039.1 | 2034.1 |
| 177.5° | 2026.9 | 2022.9 | 2012.5 | 2028.9 | 2024.8 |
| 180°   | 2018.7 | 2018.7 | 2018.7 | 2018.7 | 2018.7 |

(END OF REPORT)