

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: P565041

Luminaire Tested: **SQ4-PW1-125U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565041  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-075D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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: 20443.8 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

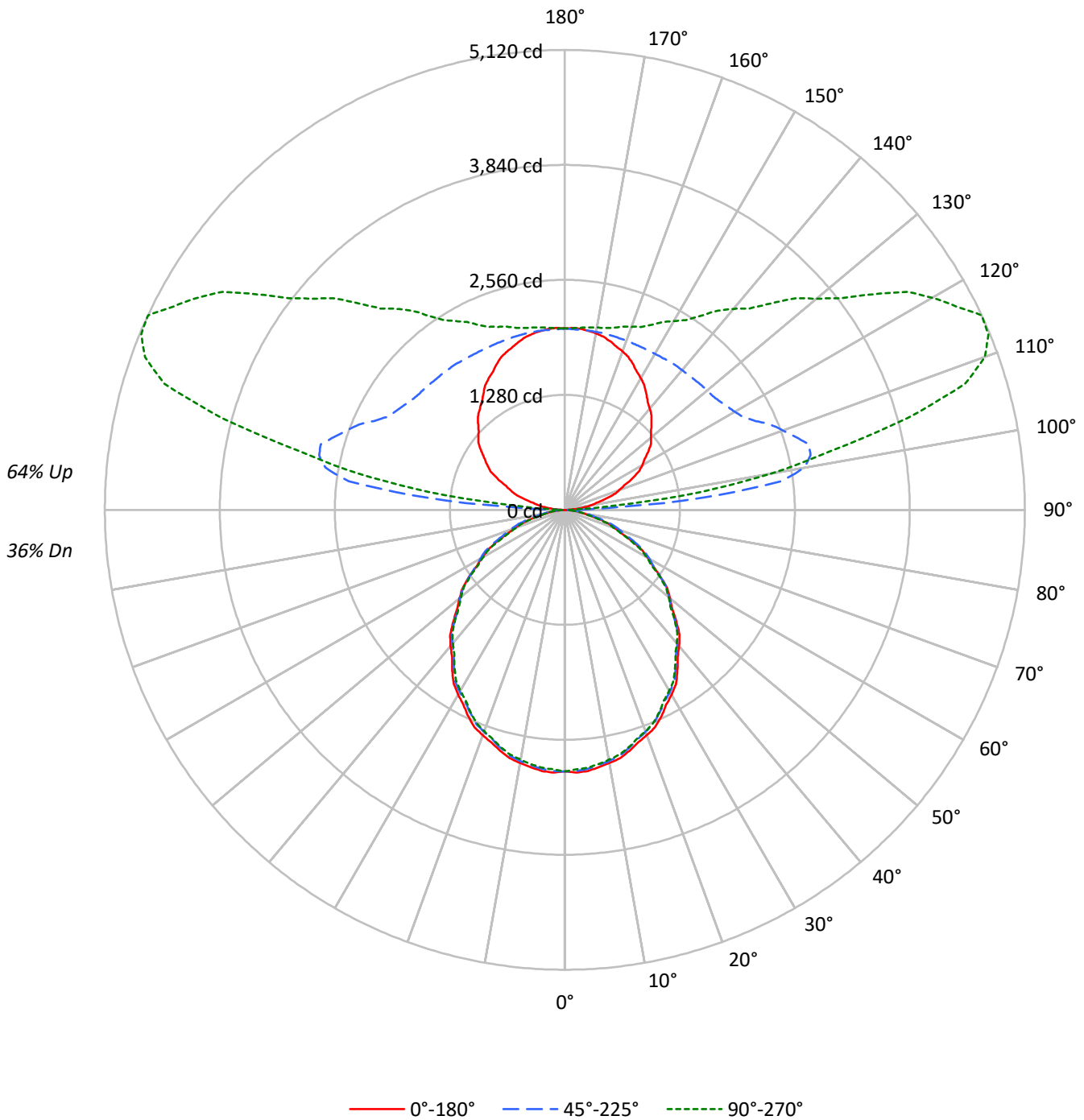
Input Watts (W): 172.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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  | 83  | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 39 | 38 | 37 | 31 |
| 2   | 86  | 79  | 73  | 68  | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 32 | 31 | 26 |
| 3   | 79  | 70  | 62  | 57  | 71 | 63 | 57 | 52 | 51 | 47 | 43 | 40 | 37 | 35 | 30 | 28 | 27 | 22 |
| 4   | 72  | 61  | 54  | 48  | 65 | 56 | 49 | 44 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5   | 66  | 55  | 47  | 41  | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 32 | 29 | 26 | 24 | 22 | 20 | 16 |
| 6   | 61  | 49  | 41  | 35  | 55 | 45 | 38 | 33 | 37 | 31 | 28 | 29 | 25 | 23 | 22 | 19 | 18 | 14 |
| 7   | 56  | 44  | 36  | 31  | 51 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 23 | 20 | 20 | 17 | 16 | 13 |
| 8   | 52  | 40  | 32  | 27  | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 16 | 14 | 11 |
| 9   | 48  | 36  | 29  | 24  | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 13 | 10 |
| 10  | 45  | 33  | 26  | 22  | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8954 | 8954 | 8954 |
| 5°  | 9012 | 8940 | 8901 |
| 10° | 8940 | 8868 | 8820 |
| 15° | 8845 | 8747 | 8714 |
| 20° | 8739 | 8605 | 8588 |
| 25° | 8617 | 8461 | 8434 |
| 30° | 8435 | 8308 | 8253 |
| 35° | 8195 | 8080 | 8032 |
| 40° | 7940 | 7816 | 7785 |
| 45° | 7631 | 7531 | 7497 |
| 50° | 7315 | 7253 | 7204 |
| 55° | 6973 | 6973 | 6863 |
| 60° | 6548 | 6674 | 6437 |
| 65° | 5992 | 6291 | 5843 |
| 70° | 5282 | 5789 | 5143 |
| 75° | 4511 | 5182 | 4389 |
| 80° | 3498 | 4362 | 3544 |
| 85° | 2262 | 3349 | 2985 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 274.2   | 1.3       |
| 10°-20°   | 774.0   | 3.8       |
| 20°-30°   | 1148.1  | 5.6       |
| 30°-40°   | 1343.4  | 6.6       |
| 40°-50°   | 1337.4  | 6.5       |
| 50°-60°   | 1154.9  | 5.6       |
| 60°-70°   | 831.3   | 4.1       |
| 70°-80°   | 435.9   | 2.1       |
| 80°-90°   | 112.8   | 0.6       |
| 90°-100°  | 944.3   | 4.6       |
| 100°-110° | 2543.8  | 12.4      |
| 110°-120° | 2669.6  | 13.1      |
| 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°    | 2196.3  | 10.7      |
| 0°-40°    | 3539.7  | 17.3      |
| 0°-60°    | 6032.1  | 29.5      |
| 0°-90°    | 7412.2  | 36.3      |
| 90°-120°  | 6157.8  | 30.1      |
| 90°-150°  | 11327.5 | 55.4      |
| 90°-180°  | 13032.0 | 63.7      |
| 0°-180°   | 20443.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2911 | 2911  | 2911 | 2911  | 2911 |      |
| 5°   | 2919 | 2886  | 2896 | 2888  | 2883 | 276  |
| 15°  | 2778 | 2743  | 2747 | 2742  | 2737 | 783  |
| 25°  | 2540 | 2497  | 2493 | 2478  | 2486 | 1168 |
| 35°  | 2183 | 2153  | 2152 | 2132  | 2139 | 1365 |
| 45°  | 1755 | 1740  | 1732 | 1726  | 1724 | 1354 |
| 55°  | 1300 | 1298  | 1300 | 1282  | 1280 | 1160 |
| 65°  | 823  | 848   | 864  | 830   | 803  | 816  |
| 75°  | 380  | 415   | 436  | 407   | 369  | 407  |
| 85°  | 64   | 84    | 95   | 90    | 85   | 85   |
| 90°  | 5    | 15    | 31   | 33    | 33   | 12   |
| 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 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2911.4 | 2911.4 | 2911.4 | 2911.4 | 2911.4 |
| 2.5°   | 2927.8 | 2903.8 | 2911.4 | 2905.0 | 2890.9 |
| 5°     | 2919.1 | 2886.5 | 2896.0 | 2888.2 | 2883.2 |
| 7.5°   | 2889.4 | 2859.3 | 2866.3 | 2858.0 | 2855.0 |
| 10°    | 2862.7 | 2832.6 | 2839.6 | 2829.2 | 2824.2 |
| 12.5°  | 2831.9 | 2799.8 | 2806.8 | 2796.4 | 2793.4 |
| 15°    | 2778.0 | 2742.9 | 2747.3 | 2742.0 | 2737.0 |
| 17.5°  | 2715.5 | 2679.8 | 2680.6 | 2672.3 | 2671.3 |
| 20°    | 2670.3 | 2632.7 | 2629.3 | 2619.1 | 2624.1 |
| 22.5°  | 2621.1 | 2581.4 | 2578.0 | 2563.8 | 2570.8 |
| 25°    | 2539.5 | 2496.8 | 2493.3 | 2478.1 | 2485.6 |
| 27.5°  | 2445.1 | 2403.0 | 2403.0 | 2381.7 | 2389.7 |
| 30°    | 2375.3 | 2335.2 | 2339.4 | 2314.0 | 2324.0 |
| 32.5°  | 2301.4 | 2265.3 | 2267.6 | 2242.2 | 2252.2 |
| 35°    | 2182.9 | 2152.8 | 2152.1 | 2131.8 | 2139.3 |
| 37.5°  | 2061.9 | 2035.3 | 2031.1 | 2019.3 | 2021.3 |
| 40°    | 1977.7 | 1955.1 | 1946.9 | 1939.2 | 1939.2 |
| 42.5°  | 1889.5 | 1868.9 | 1860.7 | 1855.1 | 1853.1 |
| 45°    | 1754.6 | 1739.5 | 1731.5 | 1726.3 | 1723.8 |
| 47.5°  | 1621.2 | 1607.1 | 1600.1 | 1596.5 | 1594.0 |
| 50°    | 1528.8 | 1518.8 | 1516.0 | 1508.2 | 1505.7 |
| 52.5°  | 1436.5 | 1430.5 | 1427.8 | 1417.9 | 1415.4 |
| 55°    | 1300.5 | 1298.0 | 1300.5 | 1282.5 | 1280.0 |
| 57.5°  | 1158.9 | 1162.9 | 1171.2 | 1147.0 | 1141.0 |
| 60°    | 1064.5 | 1074.6 | 1085.1 | 1056.6 | 1046.6 |
| 62.5°  | 968.1  | 984.1  | 998.9  | 966.2  | 952.2  |
| 65°    | 823.4  | 848.5  | 864.5  | 830.5  | 802.9  |
| 67.5°  | 683.9  | 715.0  | 734.1  | 697.5  | 666.4  |
| 70°    | 587.4  | 622.5  | 643.8  | 607.1  | 572.0  |
| 72.5°  | 503.3  | 542.4  | 559.7  | 525.1  | 489.9  |
| 75°    | 379.6  | 414.8  | 436.1  | 407.0  | 369.4  |
| 77.5°  | 269.3  | 302.4  | 320.1  | 294.8  | 263.7  |
| 80°    | 197.5  | 232.6  | 246.3  | 225.2  | 200.1  |
| 82.5°  | 140.1  | 169.2  | 178.5  | 165.8  | 148.8  |
| 85°    | 64.1   | 84.2   | 94.9   | 89.7   | 84.6   |
| 87.5°  | 17.4   | 33.5   | 45.2   | 45.7   | 47.7   |
| 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 |



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**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)