

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: P519479

Luminaire Tested: **SQ4-WB-125U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519479  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-125U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

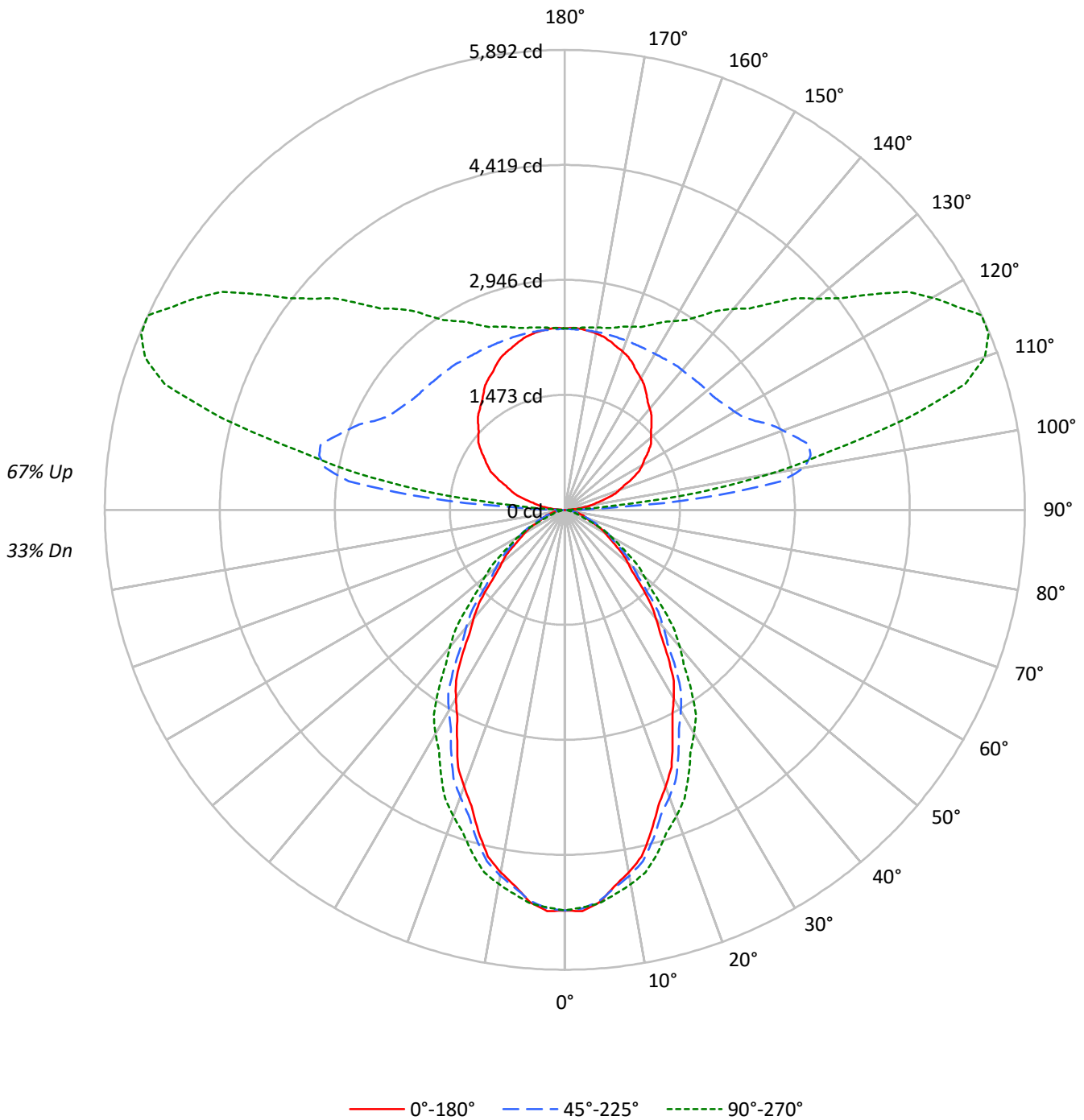
Lumens per Lamp: N/A  
Luminaire Lumens: 22483.7 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 33 |
| 1   | 95  | 91  | 87  | 84  | 85 | 82 | 79 | 77 | 66 | 64 | 62 | 51 | 50 | 49 | 37 | 36 | 36 | 30 |
| 2   | 87  | 80  | 75  | 70  | 78 | 73 | 68 | 64 | 59 | 55 | 53 | 46 | 44 | 42 | 34 | 32 | 31 | 26 |
| 3   | 80  | 71  | 65  | 59  | 72 | 65 | 59 | 54 | 52 | 48 | 45 | 41 | 38 | 36 | 31 | 29 | 28 | 23 |
| 4   | 73  | 63  | 56  | 51  | 66 | 58 | 52 | 47 | 47 | 43 | 39 | 37 | 34 | 32 | 28 | 26 | 25 | 21 |
| 5   | 68  | 57  | 49  | 44  | 61 | 52 | 45 | 41 | 42 | 38 | 34 | 34 | 31 | 28 | 26 | 24 | 22 | 18 |
| 6   | 62  | 51  | 44  | 38  | 56 | 47 | 40 | 36 | 39 | 34 | 30 | 31 | 27 | 25 | 23 | 21 | 20 | 17 |
| 7   | 58  | 46  | 39  | 34  | 52 | 43 | 36 | 32 | 35 | 30 | 27 | 28 | 25 | 22 | 22 | 19 | 18 | 15 |
| 8   | 54  | 42  | 35  | 30  | 49 | 39 | 33 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 20 | 18 | 16 | 14 |
| 9   | 50  | 39  | 32  | 27  | 45 | 36 | 29 | 25 | 30 | 25 | 22 | 24 | 21 | 18 | 19 | 16 | 15 | 13 |
| 10  | 47  | 36  | 29  | 24  | 43 | 33 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 17 | 15 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15787 | 15787 | 15787 |
| 5°  | 15590 | 15535 | 15625 |
| 10° | 14729 | 14863 | 15208 |
| 15° | 13597 | 13913 | 14537 |
| 20° | 12348 | 12812 | 13660 |
| 25° | 11075 | 11679 | 12726 |
| 30° | 9902  | 10551 | 11758 |
| 35° | 8659  | 9285  | 10613 |
| 40° | 7289  | 7867  | 9188  |
| 45° | 6015  | 6534  | 7671  |
| 50° | 5022  | 5474  | 6391  |
| 55° | 4263  | 4698  | 5278  |
| 60° | 3644  | 4073  | 4211  |
| 65° | 2901  | 3426  | 2721  |
| 70° | 2573  | 2673  | 1661  |
| 75° | 2382  | 2167  | 1017  |
| 80° | 2194  | 1994  | 878   |
| 85° | 1987  | 1828  | 716   |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 470.9   | 2.1       |
| 10°-20°   | 1224.7  | 5.4       |
| 20°-30°   | 1586.3  | 7.1       |
| 30°-40°   | 1553.4  | 6.9       |
| 40°-50°   | 1189.1  | 5.3       |
| 50°-60°   | 792.3   | 3.5       |
| 60°-70°   | 432.4   | 1.9       |
| 70°-80°   | 180.2   | 0.8       |
| 80°-90°   | 56.5    | 0.3       |
| 90°-100°  | 1086.8  | 4.8       |
| 100°-110° | 2927.6  | 13.0      |
| 110°-120° | 3072.5  | 13.7      |
| 120°-130° | 2493.2  | 11.1      |
| 130°-140° | 1955.4  | 8.7       |
| 140°-150° | 1501.2  | 6.7       |
| 150°-160° | 1079.4  | 4.8       |
| 160°-170° | 659.4   | 2.9       |
| 170°-180° | 222.4   | 1.0       |
| 0°-30°    | 3281.9  | 14.6      |
| 0°-40°    | 4835.3  | 21.5      |
| 0°-60°    | 6816.7  | 30.3      |
| 0°-90°    | 7485.7  | 33.3      |
| 90°-120°  | 7086.9  | 31.5      |
| 90°-150°  | 13036.8 | 58.0      |
| 90°-180°  | 14998.0 | 66.7      |
| 0°-180°   | 22483.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 5133 | 5133  | 5133 | 5133  | 5133 |      |
| 5°   | 5050 | 4999  | 5032 | 5044  | 5061 | 470  |
| 15°  | 4271 | 4255  | 4370 | 4489  | 4566 | 1193 |
| 25°  | 3264 | 3273  | 3442 | 3592  | 3750 | 1501 |
| 35°  | 2306 | 2318  | 2473 | 2640  | 2827 | 1434 |
| 45°  | 1383 | 1409  | 1502 | 1616  | 1764 | 1079 |
| 55°  | 795  | 828   | 876  | 909   | 984  | 721  |
| 65°  | 399  | 432   | 471  | 411   | 374  | 414  |
| 75°  | 200  | 200   | 182  | 125   | 86   | 214  |
| 85°  | 56   | 56    | 52   | 34    | 20   | 61   |
| 90°  | 6    | 18    | 36   | 38    | 38   | 14   |
| 95°  | 166  | 591   | 1782 | 911   | 630  | 173  |
| 105° | 542  | 843   | 3238 | 4844  | 4546 | 569  |
| 115° | 956  | 1170  | 2696 | 5210  | 5892 | 941  |
| 125° | 1305 | 1499  | 2421 | 4092  | 4815 | 1165 |
| 135° | 1572 | 1754  | 2353 | 3301  | 3738 | 1213 |
| 145° | 1817 | 1959  | 2323 | 2822  | 3031 | 1140 |
| 155° | 2063 | 2138  | 2302 | 2532  | 2613 | 950  |
| 165° | 2237 | 2264  | 2311 | 2403  | 2415 | 631  |
| 175° | 2326 | 2323  | 2314 | 2347  | 2341 | 221  |
| 180° | 2323 | 2323  | 2323 | 2323  | 2323 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 5133.3 | 5133.3 | 5133.3 | 5133.3 | 5133.3 |
| 2.5°   | 5146.0 | 5100.1 | 5111.7 | 5111.4 | 5097.3 |
| 5°     | 5050.0 | 4999.3 | 5032.0 | 5043.6 | 5061.3 |
| 7.5°   | 4862.6 | 4824.3 | 4883.8 | 4927.8 | 4963.5 |
| 10°    | 4716.6 | 4683.6 | 4759.4 | 4823.6 | 4869.8 |
| 12.5°  | 4547.3 | 4519.5 | 4613.5 | 4699.5 | 4759.9 |
| 15°    | 4270.7 | 4255.2 | 4369.8 | 4488.6 | 4565.7 |
| 17.5°  | 3974.7 | 3967.2 | 4098.6 | 4237.3 | 4336.0 |
| 20°    | 3772.9 | 3770.7 | 3914.8 | 4059.3 | 4173.8 |
| 22.5°  | 3569.2 | 3574.1 | 3725.6 | 3875.8 | 4006.2 |
| 25°    | 3263.8 | 3272.6 | 3441.8 | 3591.8 | 3750.3 |
| 27.5°  | 2981.3 | 2985.3 | 3160.2 | 3318.6 | 3487.7 |
| 30°    | 2788.5 | 2799.6 | 2971.0 | 3134.9 | 3311.1 |
| 32.5°  | 2595.7 | 2608.5 | 2776.4 | 2945.8 | 3125.5 |
| 35°    | 2306.5 | 2317.5 | 2473.2 | 2639.6 | 2826.8 |
| 37.5°  | 2008.3 | 2023.3 | 2161.5 | 2318.8 | 2502.9 |
| 40°    | 1815.5 | 1837.5 | 1959.6 | 2107.9 | 2288.5 |
| 42.5°  | 1629.9 | 1657.2 | 1770.4 | 1911.1 | 2074.1 |
| 45°    | 1383.0 | 1409.4 | 1502.4 | 1616.1 | 1763.7 |
| 47.5°  | 1170.4 | 1200.8 | 1272.2 | 1370.1 | 1496.1 |
| 50°    | 1049.6 | 1078.3 | 1144.2 | 1216.8 | 1335.7 |
| 52.5°  | 943.3  | 972.0  | 1030.7 | 1086.6 | 1187.9 |
| 55°    | 795.1  | 828.2  | 876.2  | 909.4  | 984.3  |
| 57.5°  | 673.5  | 705.2  | 743.3  | 758.3  | 803.7  |
| 60°    | 592.4  | 627.6  | 662.2  | 660.5  | 684.7  |
| 62.5°  | 518.5  | 548.5  | 582.9  | 559.1  | 560.4  |
| 65°    | 398.7  | 431.7  | 470.8  | 411.3  | 373.9  |
| 67.5°  | 322.1  | 329.1  | 369.4  | 286.9  | 242.4  |
| 70°    | 286.1  | 286.1  | 297.3  | 222.1  | 184.7  |
| 72.5°  | 251.8  | 251.8  | 241.5  | 180.7  | 141.5  |
| 75°    | 200.5  | 200.5  | 182.4  | 125.2  | 85.6   |
| 77.5°  | 154.5  | 152.8  | 139.7  | 93.4   | 62.2   |
| 80°    | 123.9  | 123.9  | 112.6  | 73.8   | 49.6   |
| 82.5°  | 96.9   | 96.9   | 87.4   | 57.6   | 36.9   |
| 85°    | 56.3   | 56.3   | 51.8   | 33.5   | 20.3   |
| 87.5°  | 21.0   | 23.3   | 25.1   | 18.5   | 16.7   |
| 90°    | 5.9    | 17.5   | 35.5   | 38.5   | 38.5   |
| 92.5°  | 72.2   | 255.1  | 504.3  | 242.8  | 168.7  |
| 95°    | 165.7  | 591.1  | 1781.7 | 911.1  | 630.4  |
| 97.5°  | 264.6  | 676.7  | 2794.4 | 2334.5 | 1760.3 |
| 100°   | 340.3  | 710.8  | 3116.4 | 3260.6 | 2705.0 |
| 102.5° | 413.7  | 758.7  | 3223.0 | 3954.3 | 3498.2 |
| 105°   | 541.6  | 842.6  | 3237.8 | 4843.9 | 4545.9 |
| 107.5° | 662.3  | 930.9  | 3099.8 | 5301.1 | 5378.1 |
| 110°   | 742.8  | 997.5  | 2974.4 | 5443.1 | 5723.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 828.1  | 1064.2 | 2853.6 | 5411.7 | 5873.0 |
| 115°   | 955.9  | 1170.1 | 2696.2 | 5209.5 | 5892.5 |
| 117.5° | 1072.5 | 1273.4 | 2574.2 | 4886.9 | 5647.4 |
| 120°   | 1148.3 | 1342.2 | 2512.7 | 4655.4 | 5436.7 |
| 122.5° | 1214.6 | 1406.2 | 2467.7 | 4418.6 | 5197.6 |
| 125°   | 1305.2 | 1499.1 | 2420.9 | 4091.8 | 4815.2 |
| 127.5° | 1392.2 | 1583.2 | 2391.3 | 3803.5 | 4449.4 |
| 130°   | 1444.3 | 1635.3 | 2379.5 | 3638.4 | 4205.5 |
| 132.5° | 1496.4 | 1685.0 | 2367.6 | 3492.9 | 4013.8 |
| 135°   | 1571.5 | 1753.8 | 2352.9 | 3301.0 | 3737.9 |
| 137.5° | 1643.1 | 1817.9 | 2345.2 | 3138.2 | 3497.0 |
| 140°   | 1692.9 | 1860.7 | 2338.1 | 3038.0 | 3362.1 |
| 142.5° | 1745.0 | 1901.2 | 2333.3 | 2944.5 | 3217.6 |
| 145°   | 1817.2 | 1959.0 | 2323.3 | 2822.2 | 3030.6 |
| 147.5° | 1895.3 | 2018.6 | 2313.2 | 2719.4 | 2883.2 |
| 150°   | 1947.4 | 2054.5 | 2308.5 | 2654.9 | 2790.9 |
| 152.5° | 1994.7 | 2087.9 | 2306.1 | 2602.2 | 2712.7 |
| 155°   | 2062.8 | 2138.1 | 2302.5 | 2532.3 | 2613.3 |
| 157.5° | 2122.6 | 2181.1 | 2303.1 | 2483.1 | 2537.5 |
| 160°   | 2160.5 | 2209.7 | 2305.5 | 2454.4 | 2494.9 |
| 162.5° | 2193.6 | 2233.6 | 2307.9 | 2430.5 | 2459.4 |
| 165°   | 2237.4 | 2263.5 | 2311.4 | 2403.4 | 2415.0 |
| 167.5° | 2272.9 | 2288.0 | 2314.4 | 2382.6 | 2387.2 |
| 170°   | 2296.6 | 2302.4 | 2314.4 | 2370.6 | 2370.6 |
| 172.5° | 2310.8 | 2312.0 | 2316.7 | 2358.8 | 2358.8 |
| 175°   | 2326.2 | 2323.3 | 2314.4 | 2346.8 | 2341.0 |
| 177.5° | 2332.7 | 2328.1 | 2316.2 | 2335.0 | 2330.4 |
| 180°   | 2323.3 | 2323.3 | 2323.3 | 2323.3 | 2323.3 |

(END OF REPORT)