

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: P563840

Luminaire Tested: **SQ4-PP3-150U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-125D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

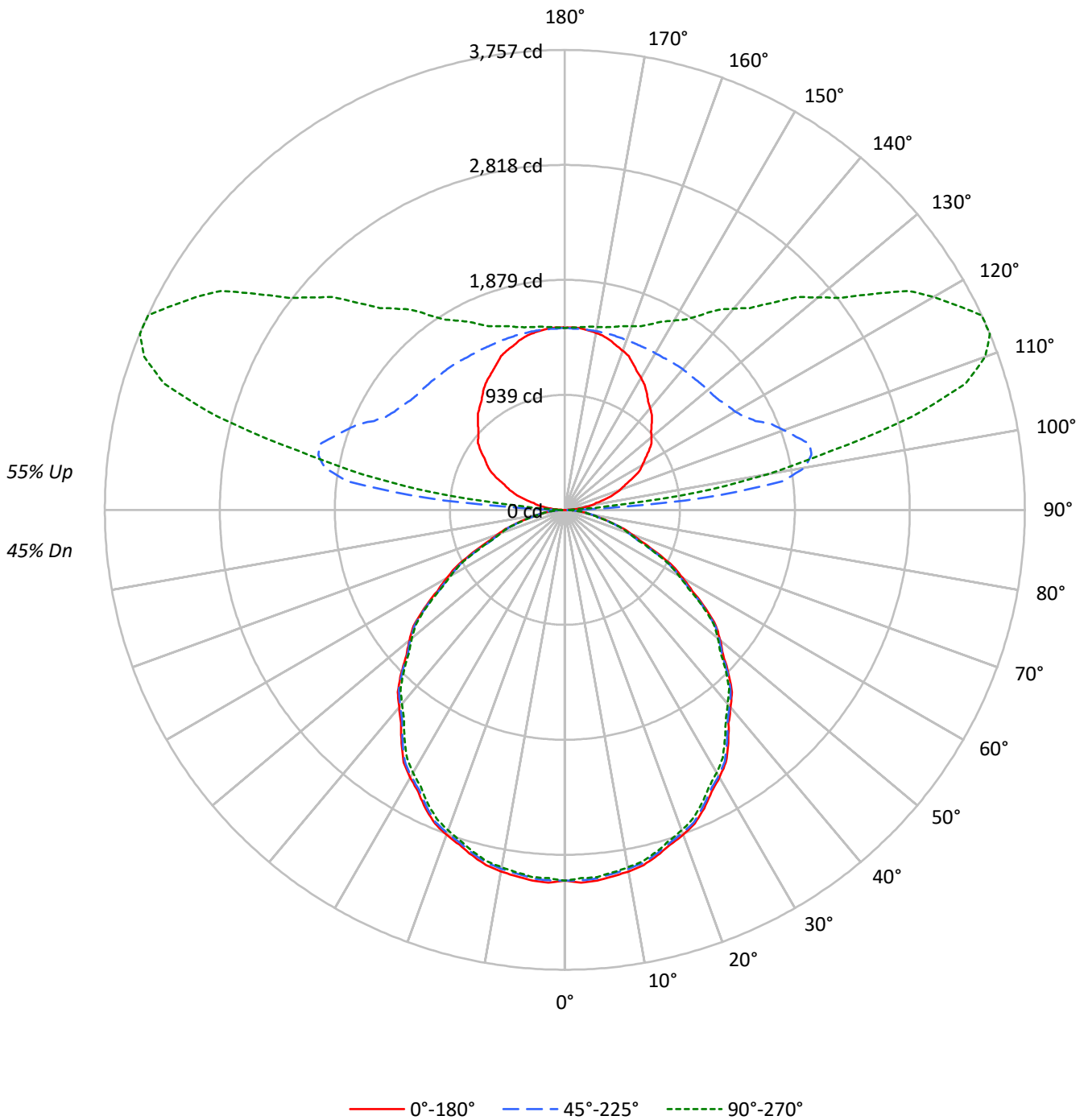
Lumens per Lamp: N/A  
Luminaire Lumens: 17343.6 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1   | 97  | 93  | 89  | 85  | 89 | 85 | 82 | 79 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 | 38 |
| 2   | 88  | 81  | 75  | 70  | 81 | 74 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 39 | 37 | 32 |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 59 | 54 | 55 | 50 | 47 | 45 | 42 | 39 | 36 | 34 | 32 | 27 |
| 4   | 74  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 40 | 36 | 33 | 32 | 29 | 27 | 24 |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 20 |
| 6   | 62  | 50  | 42  | 37  | 57 | 47 | 40 | 34 | 39 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 19 | 16 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 17 | 14 |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 23  | 43 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13974 | 13974 | 13974 |
| 5°  | 14077 | 13991 | 13942 |
| 10° | 14053 | 13953 | 13892 |
| 15° | 13960 | 13884 | 13808 |
| 20° | 13867 | 13789 | 13685 |
| 25° | 13703 | 13608 | 13473 |
| 30° | 13449 | 13379 | 13209 |
| 35° | 13097 | 13008 | 12843 |
| 40° | 12679 | 12599 | 12455 |
| 45° | 12332 | 12245 | 12125 |
| 50° | 11890 | 11814 | 11699 |
| 55° | 11274 | 11125 | 11039 |
| 60° | 10263 | 9970  | 9920  |
| 65° | 9041  | 8665  | 8636  |
| 70° | 7807  | 7484  | 7484  |
| 75° | 6720  | 6625  | 6531  |
| 80° | 5924  | 5996  | 5855  |
| 85° | 4637  | 5060  | 5060  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 286.4   | 1.7       |
| 10°-20°   | 817.9   | 4.7       |
| 20°-30°   | 1225.1  | 7.1       |
| 30°-40°   | 1437.0  | 8.3       |
| 40°-50°   | 1441.5  | 8.3       |
| 50°-60°   | 1229.7  | 7.1       |
| 60°-70°   | 802.0   | 4.6       |
| 70°-80°   | 402.4   | 2.3       |
| 80°-90°   | 114.5   | 0.7       |
| 90°-100°  | 691.1   | 4.0       |
| 100°-110° | 1868.5  | 10.8      |
| 110°-120° | 1964.4  | 11.3      |
| 120°-130° | 1595.6  | 9.2       |
| 130°-140° | 1251.7  | 7.2       |
| 140°-150° | 960.7   | 5.5       |
| 150°-160° | 690.9   | 4.0       |
| 160°-170° | 422.1   | 2.4       |
| 170°-180° | 142.3   | 0.8       |
| 0°-30°    | 2329.5  | 13.4      |
| 0°-40°    | 3766.4  | 21.7      |
| 0°-60°    | 6437.6  | 37.1      |
| 0°-90°    | 7756.4  | 44.7      |
| 90°-120°  | 4524.0  | 26.1      |
| 90°-150°  | 8331.9  | 48.0      |
| 90°-180°  | 9587.0  | 55.3      |
| 0°-180°   | 17343.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3029 | 3029  | 3029 | 3029  | 3029 |      |
| 5°   | 3040 | 3011  | 3021 | 3011  | 3011 | 289  |
| 15°  | 2923 | 2894  | 2907 | 2896  | 2891 | 825  |
| 25°  | 2692 | 2661  | 2674 | 2650  | 2647 | 1238 |
| 35°  | 2326 | 2302  | 2310 | 2283  | 2281 | 1453 |
| 45°  | 1890 | 1877  | 1877 | 1858  | 1858 | 1456 |
| 55°  | 1402 | 1397  | 1383 | 1375  | 1373 | 1246 |
| 65°  | 828  | 813   | 794  | 789   | 791  | 827  |
| 75°  | 377  | 377   | 372  | 369   | 366  | 409  |
| 85°  | 88   | 95    | 96   | 96    | 96   | 103  |
| 90°  | 3    | 10    | 21   | 22    | 21   | 10   |
| 95°  | 107  | 376   | 1149 | 595   | 354  | 112  |
| 105° | 347  | 537   | 2073 | 3058  | 2932 | 366  |
| 115° | 611  | 748   | 1719 | 3328  | 3757 | 604  |
| 125° | 837  | 959   | 1549 | 2615  | 3072 | 746  |
| 135° | 1004 | 1122  | 1508 | 2111  | 2390 | 776  |
| 145° | 1167 | 1254  | 1487 | 1807  | 1945 | 730  |
| 155° | 1317 | 1369  | 1474 | 1621  | 1674 | 608  |
| 165° | 1434 | 1448  | 1481 | 1538  | 1546 | 404  |
| 175° | 1489 | 1487  | 1482 | 1501  | 1498 | 141  |
| 180° | 1487 | 1487  | 1487 | 1487  | 1487 |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3029.3 | 3029.3 | 3029.3 | 3029.3 | 3029.3 |
| 2.5°   | 3048.4 | 3023.5 | 3029.3 | 3024.7 | 3012.3 |
| 5°     | 3039.9 | 3011.3 | 3021.3 | 3010.7 | 3010.7 |
| 7.5°   | 3019.2 | 2988.0 | 2997.9 | 2987.3 | 2986.8 |
| 10°    | 3000.1 | 2968.9 | 2978.8 | 2968.2 | 2965.6 |
| 12.5°  | 2972.5 | 2941.3 | 2953.3 | 2940.6 | 2940.1 |
| 15°    | 2923.1 | 2894.5 | 2907.1 | 2896.4 | 2891.2 |
| 17.5°  | 2867.3 | 2836.2 | 2851.4 | 2836.5 | 2834.4 |
| 20°    | 2824.8 | 2793.7 | 2808.9 | 2787.7 | 2787.7 |
| 22.5°  | 2773.9 | 2742.7 | 2760.1 | 2732.5 | 2732.5 |
| 25°    | 2692.1 | 2660.9 | 2673.5 | 2649.6 | 2647.0 |
| 27.5°  | 2594.9 | 2564.3 | 2577.4 | 2550.3 | 2549.8 |
| 30°    | 2524.8 | 2496.3 | 2511.6 | 2482.3 | 2479.7 |
| 32.5°  | 2448.4 | 2421.9 | 2433.0 | 2403.7 | 2401.1 |
| 35°    | 2325.7 | 2302.4 | 2309.8 | 2283.2 | 2280.6 |
| 37.5°  | 2196.7 | 2172.8 | 2181.3 | 2158.4 | 2157.4 |
| 40°    | 2105.4 | 2089.8 | 2092.1 | 2073.4 | 2068.2 |
| 42.5°  | 2020.4 | 2002.7 | 2005.0 | 1986.4 | 1985.4 |
| 45°    | 1890.3 | 1877.3 | 1877.0 | 1858.5 | 1858.5 |
| 47.5°  | 1752.3 | 1742.4 | 1739.5 | 1724.1 | 1723.6 |
| 50°    | 1656.7 | 1648.9 | 1646.1 | 1632.7 | 1630.1 |
| 52.5°  | 1556.9 | 1553.2 | 1544.1 | 1532.9 | 1532.4 |
| 55°    | 1401.8 | 1396.6 | 1383.2 | 1375.2 | 1372.6 |
| 57.5°  | 1233.5 | 1223.1 | 1208.0 | 1196.4 | 1198.4 |
| 60°    | 1112.4 | 1102.0 | 1080.6 | 1075.2 | 1075.2 |
| 62.5°  | 995.6  | 983.1  | 961.6  | 954.3  | 958.4  |
| 65°    | 828.3  | 812.8  | 793.8  | 788.6  | 791.2  |
| 67.5°  | 676.5  | 662.5  | 642.0  | 641.9  | 639.8  |
| 70°    | 578.8  | 571.0  | 554.9  | 554.9  | 554.9  |
| 72.5°  | 491.7  | 488.1  | 476.3  | 476.2  | 474.2  |
| 75°    | 377.0  | 377.0  | 371.7  | 369.0  | 366.4  |
| 77.5°  | 282.5  | 283.5  | 280.9  | 278.1  | 273.5  |
| 80°    | 223.0  | 228.2  | 225.7  | 223.0  | 220.4  |
| 82.5°  | 167.8  | 173.0  | 172.6  | 167.8  | 167.3  |
| 85°    | 87.6   | 95.4   | 95.6   | 95.6   | 95.6   |
| 87.5°  | 24.0   | 33.6   | 38.1   | 38.5   | 40.3   |
| 90°    | 3.2    | 9.5    | 20.8   | 22.4   | 20.8   |
| 92.5°  | 45.5   | 165.7  | 326.8  | 141.9  | 102.8  |
| 95°    | 107.2  | 376.4  | 1149.3 | 594.8  | 353.7  |
| 97.5°  | 172.2  | 431.7  | 1791.4 | 1482.5 | 1088.8 |
| 100°   | 220.9  | 454.1  | 1991.2 | 2076.6 | 1679.1 |
| 102.5° | 265.7  | 485.1  | 2061.6 | 2527.0 | 2229.7 |
| 105°   | 347.3  | 536.7  | 2072.8 | 3057.6 | 2932.4 |
| 107.5° | 422.9  | 595.7  | 1982.2 | 3388.5 | 3430.2 |
| 110°   | 481.8  | 638.3  | 1901.6 | 3477.4 | 3654.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 534.3  | 680.8  | 1827.3 | 3459.6 | 3756.7 |
| 115°   | 611.4  | 747.6  | 1719.1 | 3327.9 | 3756.7 |
| 117.5° | 687.0  | 814.7  | 1647.7 | 3126.5 | 3612.6 |
| 120°   | 733.1  | 858.3  | 1605.4 | 2982.1 | 3478.2 |
| 122.5° | 776.6  | 899.3  | 1579.8 | 2827.2 | 3327.1 |
| 125°   | 837.1  | 959.2  | 1549.4 | 2614.6 | 3071.6 |
| 127.5° | 892.8  | 1012.7 | 1531.5 | 2441.1 | 2843.0 |
| 130°   | 923.6  | 1047.2 | 1523.8 | 2334.0 | 2697.1 |
| 132.5° | 955.6  | 1078.0 | 1516.1 | 2237.3 | 2571.6 |
| 135°   | 1003.6 | 1122.5 | 1507.8 | 2111.2 | 2389.7 |
| 137.5° | 1051.9 | 1164.3 | 1500.8 | 2008.8 | 2235.8 |
| 140°   | 1085.2 | 1190.1 | 1498.2 | 1943.0 | 2144.9 |
| 142.5° | 1117.2 | 1215.8 | 1493.1 | 1883.5 | 2060.3 |
| 145°   | 1166.9 | 1254.5 | 1487.0 | 1807.0 | 1944.8 |
| 147.5° | 1212.0 | 1289.6 | 1479.9 | 1737.8 | 1843.6 |
| 150°   | 1245.3 | 1314.2 | 1477.4 | 1700.2 | 1784.7 |
| 152.5° | 1276.0 | 1336.1 | 1476.1 | 1665.3 | 1734.8 |
| 155°   | 1317.3 | 1369.0 | 1474.2 | 1621.1 | 1674.3 |
| 157.5° | 1360.2 | 1396.2 | 1474.5 | 1590.2 | 1625.3 |
| 160°   | 1384.5 | 1414.3 | 1475.8 | 1570.8 | 1595.8 |
| 162.5° | 1403.8 | 1428.5 | 1477.1 | 1555.3 | 1574.1 |
| 165°   | 1434.2 | 1448.3 | 1480.6 | 1538.4 | 1546.2 |
| 167.5° | 1455.0 | 1464.7 | 1480.9 | 1523.9 | 1527.6 |
| 170°   | 1467.8 | 1472.5 | 1482.2 | 1517.4 | 1517.4 |
| 172.5° | 1478.0 | 1479.0 | 1482.2 | 1509.7 | 1508.4 |
| 175°   | 1488.6 | 1487.0 | 1482.2 | 1501.3 | 1498.2 |
| 177.5° | 1492.1 | 1488.4 | 1481.9 | 1494.6 | 1490.8 |
| 180°   | 1487.0 | 1487.0 | 1487.0 | 1487.0 | 1487.0 |

(END OF REPORT)