

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: P562696

Luminaire Tested: **SQ4-PC3-050U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562696  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-050U-125D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

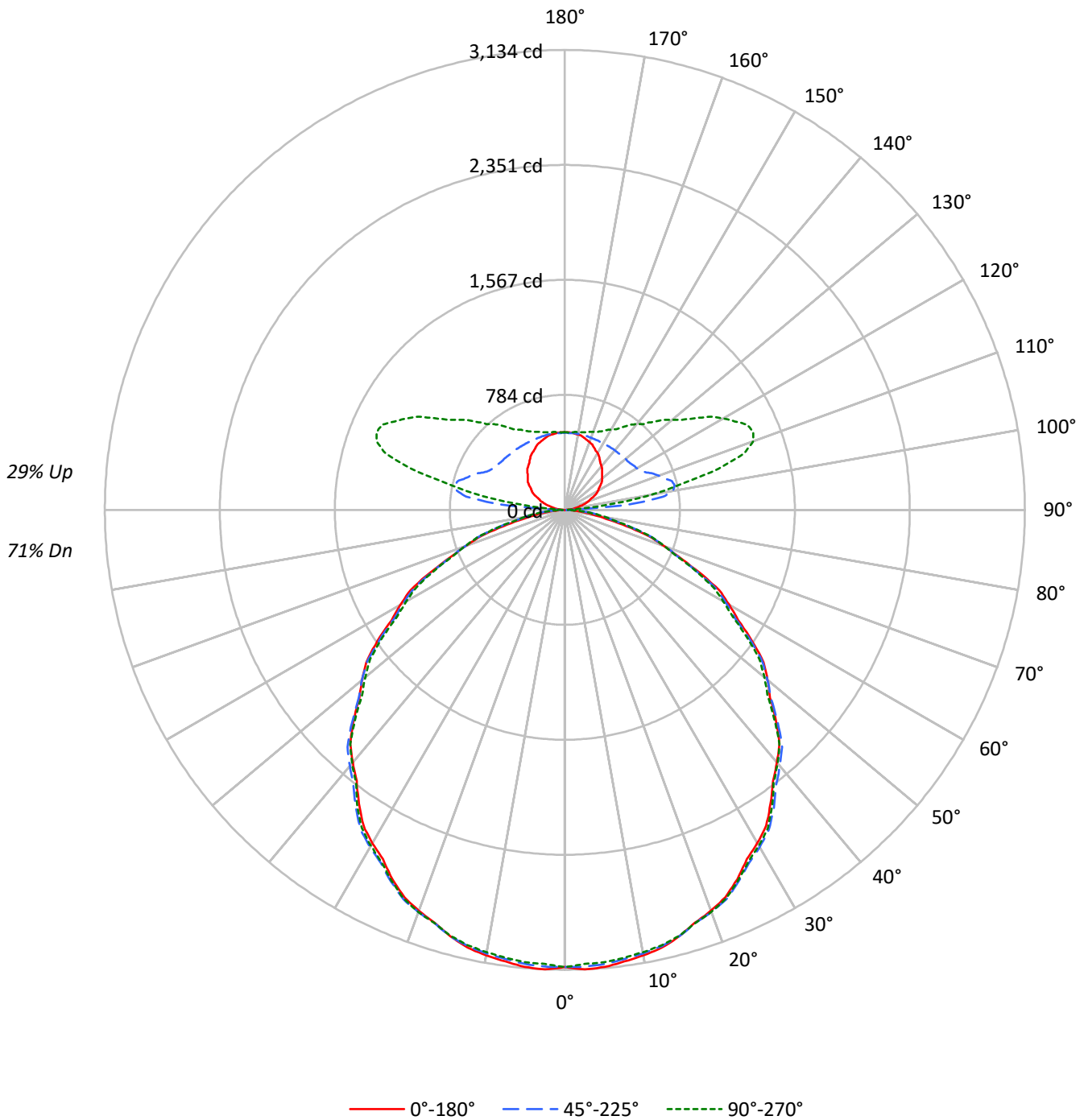
Lumens per Lamp: N/A  
Luminaire Lumens: 11949.3 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 114.8  
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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 71 |
| 1   | 103 | 98  | 94  | 91  | 97  | 93  | 90  | 86  | 84 | 81 | 79 | 75 | 73 | 71 | 67 | 65 | 64 | 60 |
| 2   | 93  | 86  | 79  | 74  | 88  | 81  | 76  | 71  | 73 | 69 | 65 | 66 | 62 | 59 | 59 | 56 | 54 | 50 |
| 3   | 85  | 75  | 68  | 62  | 80  | 72  | 65  | 59  | 65 | 59 | 55 | 58 | 54 | 50 | 52 | 49 | 46 | 43 |
| 4   | 78  | 67  | 59  | 52  | 74  | 64  | 56  | 50  | 58 | 51 | 47 | 52 | 47 | 43 | 47 | 43 | 40 | 37 |
| 5   | 72  | 60  | 51  | 45  | 68  | 57  | 49  | 43  | 52 | 45 | 40 | 47 | 41 | 37 | 42 | 38 | 34 | 32 |
| 6   | 66  | 54  | 45  | 39  | 62  | 51  | 43  | 38  | 46 | 40 | 35 | 42 | 37 | 33 | 38 | 34 | 30 | 28 |
| 7   | 61  | 48  | 40  | 34  | 58  | 46  | 39  | 33  | 42 | 36 | 31 | 38 | 33 | 29 | 35 | 30 | 27 | 25 |
| 8   | 57  | 44  | 36  | 30  | 54  | 42  | 35  | 30  | 39 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 | 22 |
| 9   | 53  | 40  | 33  | 27  | 50  | 39  | 31  | 26  | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 | 20 |
| 10  | 50  | 37  | 30  | 25  | 47  | 36  | 29  | 24  | 33 | 27 | 22 | 30 | 25 | 21 | 27 | 23 | 20 | 18 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 14373 | 14373 | 14373 |
| 5°  | 14481 | 14388 | 14334 |
| 10° | 14446 | 14378 | 14338 |
| 15° | 14370 | 14370 | 14357 |
| 20° | 14276 | 14318 | 14318 |
| 25° | 14141 | 14244 | 14200 |
| 30° | 13969 | 14138 | 14076 |
| 35° | 13761 | 13972 | 13874 |
| 40° | 13533 | 13725 | 13586 |
| 45° | 13287 | 13382 | 13174 |
| 50° | 12940 | 12940 | 12733 |
| 55° | 12530 | 12367 | 12181 |
| 60° | 11924 | 11685 | 11499 |
| 65° | 11021 | 10801 | 10707 |
| 70° | 9651  | 9727  | 9688  |
| 75° | 7764  | 8587  | 8639  |
| 80° | 5518  | 7282  | 7359  |
| 85° | 3361  | 6108  | 6108  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.9   | 2.5       |
| 10°-20°   | 846.2   | 7.1       |
| 20°-30°   | 1281.4  | 10.7      |
| 30°-40°   | 1536.3  | 12.9      |
| 40°-50°   | 1566.5  | 13.1      |
| 50°-60°   | 1367.4  | 11.4      |
| 60°-70°   | 979.0   | 8.2       |
| 70°-80°   | 504.2   | 4.2       |
| 80°-90°   | 129.5   | 1.1       |
| 90°-100°  | 253.2   | 2.1       |
| 100°-110° | 687.8   | 5.8       |
| 110°-120° | 707.2   | 5.9       |
| 120°-130° | 565.4   | 4.7       |
| 130°-140° | 444.3   | 3.7       |
| 140°-150° | 340.7   | 2.9       |
| 150°-160° | 245.0   | 2.1       |
| 160°-170° | 149.8   | 1.3       |
| 170°-180° | 50.5    | 0.4       |
| 0°-30°    | 2422.5  | 20.3      |
| 0°-40°    | 3958.8  | 33.1      |
| 0°-60°    | 6892.7  | 57.7      |
| 0°-90°    | 8505.4  | 71.2      |
| 90°-120°  | 1648.3  | 13.8      |
| 90°-150°  | 2998.6  | 25.1      |
| 90°-180°  | 3444.0  | 28.8      |
| 0°-180°   | 11949.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3116 | 3116  | 3116 | 3116  | 3116 |      |
| 5°   | 3127 | 3096  | 3107 | 3098  | 3096 | 297  |
| 15°  | 3009 | 2984  | 3009 | 3009  | 3006 | 848  |
| 25°  | 2778 | 2758  | 2798 | 2790  | 2790 | 1279 |
| 35°  | 2444 | 2438  | 2481 | 2464  | 2464 | 1528 |
| 45°  | 2037 | 2031  | 2051 | 2025  | 2019 | 1568 |
| 55°  | 1558 | 1538  | 1538 | 1515  | 1515 | 1389 |
| 65°  | 1010 | 987   | 990  | 981   | 981  | 999  |
| 75°  | 436  | 455   | 482  | 485   | 485  | 471  |
| 85°  | 64   | 97    | 115  | 118   | 115  | 86   |
| 90°  | 2    | 7     | 12   | 15    | 15   | 5    |
| 95°  | 37   | 138   | 441  | 192   | 129  | 40   |
| 105° | 122  | 190   | 756  | 1152  | 1084 | 130  |
| 115° | 217  | 264   | 606  | 1205  | 1372 | 214  |
| 125° | 298  | 340   | 548  | 923   | 1089 | 266  |
| 135° | 360  | 399   | 532  | 752   | 848  | 278  |
| 145° | 416  | 445   | 526  | 639   | 687  | 261  |
| 155° | 470  | 486   | 522  | 574   | 590  | 217  |
| 165° | 509  | 515   | 524  | 546   | 548  | 144  |
| 175° | 528  | 529   | 526  | 532   | 531  | 50   |
| 180° | 528  | 528   | 528  | 528   | 528  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3115.7 | 3115.7 | 3115.7 | 3115.7 | 3115.7 |
| 2.5°   | 3134.2 | 3107.1 | 3115.7 | 3108.5 | 3097.2 |
| 5°     | 3127.2 | 3096.2 | 3107.0 | 3098.3 | 3095.5 |
| 7.5°   | 3104.7 | 3073.7 | 3088.0 | 3082.2 | 3079.4 |
| 10°    | 3084.0 | 3052.9 | 3069.5 | 3063.7 | 3060.9 |
| 12.5°  | 3056.3 | 3027.5 | 3046.5 | 3040.7 | 3040.1 |
| 15°    | 3009.0 | 2983.6 | 3009.0 | 3008.9 | 3006.1 |
| 17.5°  | 2949.5 | 2926.4 | 2953.6 | 2955.3 | 2953.6 |
| 20°    | 2908.0 | 2882.6 | 2916.6 | 2913.8 | 2916.6 |
| 22.5°  | 2857.2 | 2836.3 | 2872.8 | 2865.4 | 2868.2 |
| 25°    | 2778.2 | 2758.4 | 2798.4 | 2789.7 | 2789.7 |
| 27.5°  | 2684.7 | 2670.6 | 2714.1 | 2704.9 | 2704.9 |
| 30°    | 2622.4 | 2608.3 | 2654.1 | 2642.6 | 2642.6 |
| 32.5°  | 2553.1 | 2543.6 | 2587.2 | 2573.3 | 2573.3 |
| 35°    | 2443.5 | 2437.9 | 2481.0 | 2463.7 | 2463.7 |
| 37.5°  | 2330.4 | 2325.4 | 2364.5 | 2343.5 | 2336.8 |
| 40°    | 2247.3 | 2244.5 | 2279.1 | 2256.0 | 2256.0 |
| 42.5°  | 2164.3 | 2161.4 | 2191.4 | 2163.7 | 2163.7 |
| 45°    | 2036.7 | 2031.1 | 2051.2 | 2025.1 | 2019.4 |
| 47.5°  | 1897.7 | 1892.1 | 1904.6 | 1876.3 | 1873.5 |
| 50°    | 1803.1 | 1797.4 | 1803.1 | 1777.0 | 1774.2 |
| 52.5°  | 1706.1 | 1696.0 | 1696.9 | 1670.9 | 1670.4 |
| 55°    | 1557.9 | 1538.1 | 1537.7 | 1514.6 | 1514.6 |
| 57.5°  | 1400.9 | 1375.0 | 1377.3 | 1357.6 | 1354.8 |
| 60°    | 1292.4 | 1264.2 | 1266.5 | 1249.1 | 1246.3 |
| 62.5°  | 1186.3 | 1153.6 | 1160.3 | 1140.7 | 1140.1 |
| 65°    | 1009.7 | 987.2  | 989.5  | 980.9  | 980.9  |
| 67.5°  | 840.1  | 819.2  | 834.3  | 827.4  | 826.8  |
| 70°    | 715.5  | 701.4  | 721.2  | 721.2  | 718.3  |
| 72.5°  | 600.1  | 599.5  | 624.3  | 624.3  | 626.0  |
| 75°    | 435.6  | 455.4  | 481.8  | 484.7  | 484.7  |
| 77.5°  | 290.8  | 325.8  | 354.8  | 356.0  | 355.4  |
| 80°    | 207.7  | 247.2  | 274.1  | 279.8  | 277.0  |
| 82.5°  | 140.8  | 182.5  | 204.8  | 210.5  | 207.7  |
| 85°    | 63.5   | 97.3   | 115.4  | 118.2  | 115.4  |
| 87.5°  | 18.8   | 40.1   | 48.5   | 49.1   | 44.6   |
| 90°    | 1.7    | 6.7    | 11.9   | 15.3   | 15.3   |
| 92.5°  | 15.3   | 69.3   | 120.4  | 51.7   | 43.8   |
| 95°    | 37.3   | 138.5  | 441.0  | 191.9  | 128.9  |
| 97.5°  | 61.7   | 152.9  | 676.0  | 525.9  | 369.4  |
| 100°   | 78.0   | 162.6  | 747.9  | 758.2  | 612.3  |
| 102.5° | 94.3   | 172.2  | 766.9  | 937.7  | 809.0  |
| 105°   | 122.1  | 190.1  | 756.4  | 1151.7 | 1083.8 |
| 107.5° | 150.9  | 211.0  | 712.7  | 1262.3 | 1281.2 |
| 110°   | 171.3  | 226.0  | 680.1  | 1284.0 | 1365.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 188.9 | 241.0 | 647.5 | 1266.0 | 1388.4 |
| 115°   | 217.1 | 263.5 | 605.5 | 1204.6 | 1372.1 |
| 117.5° | 243.5 | 288.0 | 578.7 | 1117.6 | 1306.3 |
| 120°   | 261.2 | 304.3 | 566.5 | 1059.2 | 1246.6 |
| 122.5° | 276.1 | 319.2 | 558.3 | 1000.7 | 1181.4 |
| 125°   | 298.5 | 340.0 | 547.8 | 923.0  | 1088.8 |
| 127.5° | 318.5 | 359.6 | 542.0 | 864.1  | 1006.4 |
| 130°   | 330.7 | 370.5 | 539.3 | 827.2  | 954.9  |
| 132.5° | 342.9 | 382.7 | 536.6 | 795.6  | 908.7  |
| 135°   | 359.6 | 399.4 | 532.5 | 751.8  | 848.0  |
| 137.5° | 377.5 | 413.7 | 530.5 | 713.1  | 794.1  |
| 140°   | 388.4 | 423.2 | 529.2 | 688.5  | 761.5  |
| 142.5° | 399.2 | 431.4 | 527.8 | 669.3  | 730.3  |
| 145°   | 415.5 | 445.4 | 525.8 | 638.8  | 686.9  |
| 147.5° | 433.8 | 459.4 | 524.1 | 614.8  | 652.6  |
| 150°   | 446.1 | 467.6 | 524.1 | 601.1  | 630.9  |
| 152.5° | 455.6 | 474.5 | 522.7 | 588.7  | 613.3  |
| 155°   | 469.8 | 486.4 | 522.4 | 573.6  | 590.2  |
| 157.5° | 483.7 | 496.6 | 522.4 | 563.4  | 576.0  |
| 160°   | 491.8 | 503.5 | 522.4 | 556.5  | 566.5  |
| 162.5° | 500.0 | 508.9 | 523.7 | 551.0  | 558.3  |
| 165°   | 508.8 | 515.4 | 524.1 | 546.2  | 547.8  |
| 167.5° | 518.0 | 521.3 | 525.8 | 540.4  | 541.7  |
| 170°   | 520.7 | 524.0 | 525.8 | 537.6  | 537.6  |
| 172.5° | 523.4 | 525.4 | 525.8 | 534.9  | 534.9  |
| 175°   | 527.5 | 529.1 | 525.8 | 532.5  | 530.9  |
| 177.5° | 528.8 | 528.8 | 524.7 | 530.1  | 527.5  |
| 180°   | 527.5 | 527.5 | 527.5 | 527.5  | 527.5  |

(END OF REPORT)