

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: P518864

Luminaire Tested: **SQ4-BB-125U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518864  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-125U-125D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

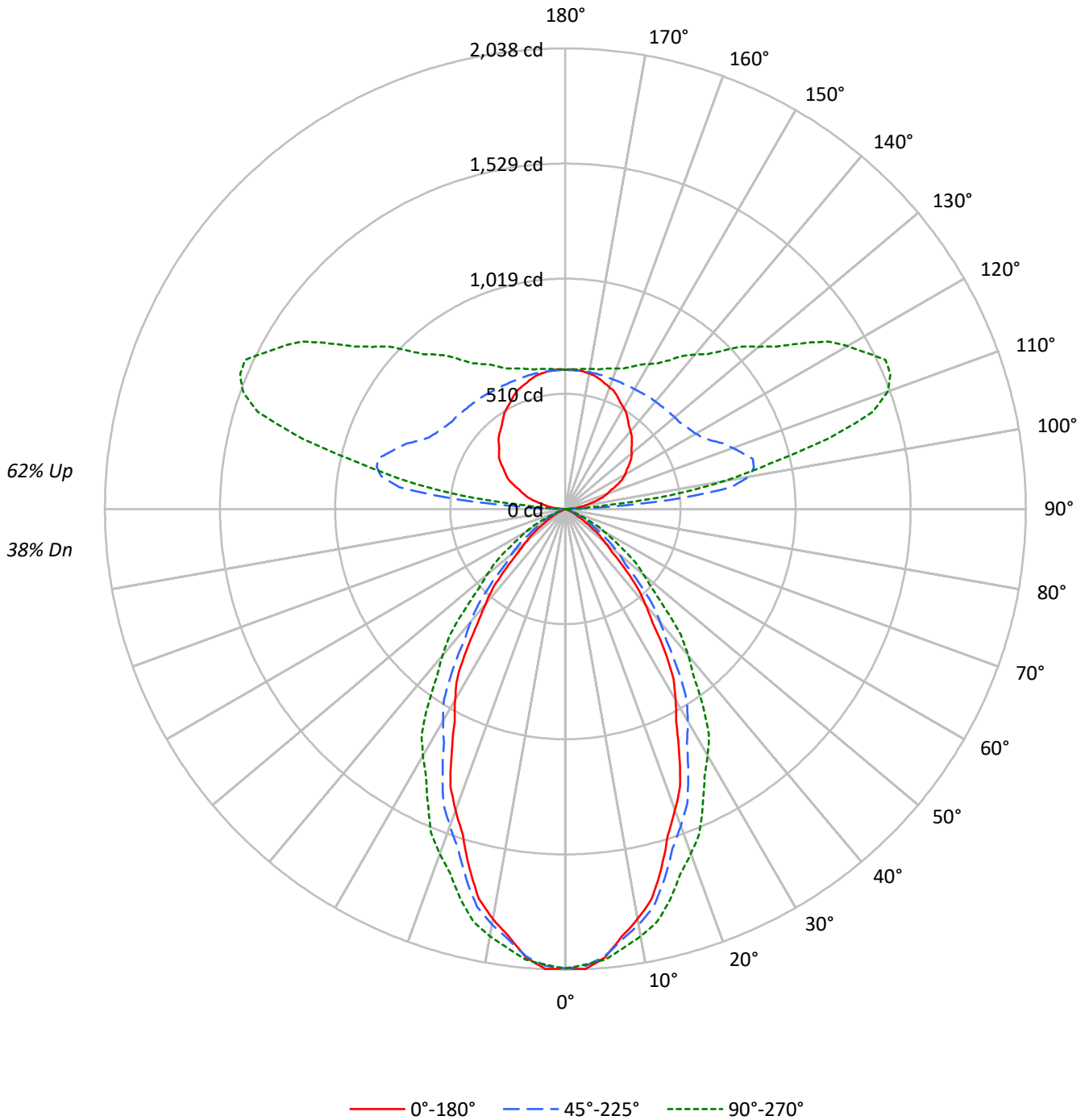
Lumens per Lamp: N/A  
Luminaire Lumens: 6404.9 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 75.3  
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 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |
| 1   | 96  | 93  | 89  | 86  | 88 | 84 | 82 | 79 | 69 | 67 | 66 | 55 | 54 | 53 | 42 | 41 | 41 | 35 |
| 2   | 89  | 83  | 77  | 73  | 81 | 75 | 71 | 67 | 62 | 59 | 56 | 50 | 48 | 46 | 39 | 37 | 36 | 31 |
| 3   | 82  | 74  | 67  | 62  | 75 | 68 | 62 | 58 | 56 | 52 | 49 | 45 | 43 | 41 | 35 | 34 | 33 | 28 |
| 4   | 76  | 66  | 59  | 54  | 69 | 61 | 55 | 50 | 51 | 47 | 43 | 41 | 38 | 36 | 33 | 31 | 29 | 26 |
| 5   | 70  | 60  | 53  | 47  | 64 | 55 | 49 | 44 | 46 | 42 | 38 | 38 | 35 | 32 | 30 | 28 | 27 | 23 |
| 6   | 65  | 54  | 47  | 42  | 59 | 50 | 44 | 39 | 42 | 37 | 34 | 35 | 32 | 29 | 28 | 26 | 24 | 21 |
| 7   | 60  | 49  | 42  | 37  | 55 | 46 | 39 | 35 | 39 | 34 | 31 | 32 | 29 | 26 | 26 | 24 | 22 | 19 |
| 8   | 56  | 45  | 38  | 33  | 51 | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 26 | 24 | 24 | 22 | 20 | 18 |
| 9   | 53  | 41  | 35  | 30  | 48 | 39 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 23 | 20 | 19 | 17 |
| 10  | 49  | 38  | 32  | 27  | 45 | 36 | 30 | 26 | 31 | 26 | 23 | 26 | 22 | 20 | 21 | 19 | 17 | 15 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 18757 | 18757 | 18757 |
| 5°  | 18454 | 18409 | 18546 |
| 10° | 17267 | 17498 | 17987 |
| 15° | 15698 | 16196 | 17097 |
| 20° | 13934 | 14659 | 15943 |
| 25° | 12135 | 13097 | 14648 |
| 30° | 10395 | 11537 | 13422 |
| 35° | 8619  | 9792  | 11942 |
| 40° | 6622  | 7830  | 10176 |
| 45° | 4787  | 5929  | 8188  |
| 50° | 3261  | 4418  | 6493  |
| 55° | 2120  | 3196  | 5046  |
| 60° | 1216  | 2251  | 3648  |
| 65° | 323   | 1373  | 1847  |
| 70° | 159   | 424   | 531   |
| 75° | 71    | 36    | 0     |
| 80° | 53    | 0     | 0     |
| 85° | 0     | 0     | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.5  | 2.9       |
| 10°-20°   | 474.5  | 7.4       |
| 20°-30°   | 594.0  | 9.3       |
| 30°-40°   | 548.6  | 8.6       |
| 40°-50°   | 368.7  | 5.8       |
| 50°-60°   | 190.4  | 3.0       |
| 60°-70°   | 59.6   | 0.9       |
| 70°-80°   | 3.8    | 0.1       |
| 80°-90°   | 1.5    | 0.0       |
| 90°-100°  | 288.3  | 4.5       |
| 100°-110° | 776.6  | 12.1      |
| 110°-120° | 815.0  | 12.7      |
| 120°-130° | 661.3  | 10.3      |
| 130°-140° | 518.7  | 8.1       |
| 140°-150° | 398.2  | 6.2       |
| 150°-160° | 286.3  | 4.5       |
| 160°-170° | 174.9  | 2.7       |
| 170°-180° | 59.0   | 0.9       |
| 0°-30°    | 1254.0 | 19.6      |
| 0°-40°    | 1802.6 | 28.1      |
| 0°-60°    | 2361.7 | 36.9      |
| 0°-90°    | 2426.6 | 37.9      |
| 90°-120°  | 1879.8 | 29.4      |
| 90°-150°  | 3458.0 | 54.0      |
| 90°-180°  | 3978.0 | 62.1      |
| 0°-180°   | 6404.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2033 | 2033  | 2033 | 2033  | 2033 |      |
| 5°   | 1993 | 1972  | 1988 | 1995  | 2002 | 185  |
| 15°  | 1644 | 1638  | 1696 | 1752  | 1790 | 458  |
| 25°  | 1192 | 1202  | 1286 | 1374  | 1439 | 546  |
| 35°  | 765  | 784   | 869  | 972   | 1060 | 474  |
| 45°  | 367  | 389   | 454  | 543   | 628  | 288  |
| 55°  | 132  | 154   | 199  | 255   | 314  | 123  |
| 65°  | 15   | 28    | 63   | 76    | 85   | 25   |
| 75°  | 2    | 2     | 1    | 0     | 0    | 3    |
| 85°  | 0    | 0     | 0    | 0     | 0    | 0    |
| 90°  | 2    | 5     | 9    | 10    | 10   | 3    |
| 95°  | 44   | 157   | 473  | 242   | 167  | 46   |
| 105° | 144  | 224   | 859  | 1285  | 1206 | 151  |
| 115° | 254  | 310   | 715  | 1382  | 1563 | 250  |
| 125° | 346  | 398   | 642  | 1085  | 1277 | 309  |
| 135° | 417  | 465   | 624  | 876   | 992  | 322  |
| 145° | 482  | 520   | 616  | 749   | 804  | 302  |
| 155° | 547  | 567   | 611  | 672   | 693  | 252  |
| 165° | 594  | 600   | 613  | 638   | 641  | 167  |
| 175° | 617  | 616   | 614  | 622   | 621  | 59   |
| 180° | 616  | 616   | 616  | 616   | 616  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2033.0 | 2033.0 | 2033.0 | 2033.0 | 2033.0 |
| 2.5°   | 2037.7 | 2018.5 | 2023.5 | 2023.4 | 2018.0 |
| 5°     | 1992.6 | 1972.5 | 1987.7 | 1994.8 | 2002.5 |
| 7.5°   | 1908.5 | 1892.7 | 1922.0 | 1944.0 | 1960.0 |
| 10°    | 1843.1 | 1829.7 | 1867.7 | 1897.7 | 1919.9 |
| 12.5°  | 1767.6 | 1757.2 | 1803.2 | 1844.4 | 1872.7 |
| 15°    | 1643.5 | 1637.7 | 1695.6 | 1752.5 | 1790.0 |
| 17.5°  | 1510.5 | 1510.3 | 1576.4 | 1647.1 | 1692.3 |
| 20°    | 1419.2 | 1422.1 | 1493.0 | 1570.9 | 1623.8 |
| 22.5°  | 1328.0 | 1334.7 | 1410.4 | 1491.6 | 1552.2 |
| 25°    | 1192.0 | 1201.7 | 1286.5 | 1374.5 | 1438.9 |
| 27.5°  | 1061.4 | 1075.5 | 1164.7 | 1256.2 | 1334.7 |
| 30°    | 975.7  | 992.0  | 1082.9 | 1179.1 | 1259.9 |
| 32.5°  | 891.5  | 910.9  | 999.5  | 1101.3 | 1183.6 |
| 35°    | 765.2  | 784.4  | 869.4  | 971.8  | 1060.3 |
| 37.5°  | 634.8  | 653.6  | 736.7  | 837.4  | 933.0  |
| 40°    | 549.8  | 571.0  | 650.1  | 747.7  | 844.9  |
| 42.5°  | 472.7  | 493.8  | 568.3  | 664.2  | 755.9  |
| 45°    | 366.9  | 389.0  | 454.4  | 542.9  | 627.5  |
| 47.5°  | 279.1  | 303.2  | 360.6  | 440.6  | 517.7  |
| 50°    | 227.2  | 251.2  | 307.8  | 378.4  | 452.4  |
| 52.5°  | 185.5  | 208.8  | 259.9  | 326.3  | 394.2  |
| 55°    | 131.8  | 153.9  | 198.7  | 255.1  | 313.7  |
| 57.5°  | 91.1   | 110.1  | 150.3  | 197.4  | 243.3  |
| 60°    | 65.9   | 84.2   | 122.0  | 160.2  | 197.7  |
| 62.5°  | 43.9   | 60.6   | 97.6   | 126.9  | 152.1  |
| 65°    | 14.8   | 28.2   | 62.9   | 75.9   | 84.6   |
| 67.5°  | 7.5    | 9.0    | 33.0   | 34.9   | 37.8   |
| 70°    | 5.9    | 5.9    | 15.7   | 16.8   | 19.7   |
| 72.5°  | 4.3    | 4.3    | 6.3    | 8.1    | 8.7    |
| 75°    | 2.0    | 2.0    | 1.0    | 0.0    | 0.0    |
| 77.5°  | 1.0    | 1.0    | 0.8    | 0.0    | 0.0    |
| 80°    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 82.5°  | 0.2    | 0.2    | 0.0    | 0.0    | 0.0    |
| 85°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5°  | 0.3    | 0.9    | 1.9    | 2.0    | 2.0    |
| 90°    | 1.6    | 4.6    | 9.4    | 10.2   | 10.2   |
| 92.5°  | 19.2   | 67.7   | 133.8  | 64.4   | 44.7   |
| 95°    | 44.0   | 156.8  | 472.6  | 241.7  | 167.2  |
| 97.5°  | 70.2   | 179.5  | 741.2  | 619.2  | 466.9  |
| 100°   | 90.3   | 188.5  | 826.6  | 864.9  | 717.5  |
| 102.5° | 109.7  | 201.2  | 854.9  | 1048.9 | 927.9  |
| 105°   | 143.7  | 223.5  | 858.8  | 1284.9 | 1205.8 |
| 107.5° | 175.7  | 246.9  | 822.2  | 1406.1 | 1426.6 |
| 110°   | 197.0  | 264.6  | 789.0  | 1443.8 | 1518.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 219.7 | 282.3 | 756.9 | 1435.5 | 1557.8 |
| 115°   | 253.6 | 310.4 | 715.2 | 1381.8 | 1563.0 |
| 117.5° | 284.5 | 337.8 | 682.8 | 1296.3 | 1498.0 |
| 120°   | 304.6 | 356.0 | 666.5 | 1234.8 | 1442.1 |
| 122.5° | 322.2 | 373.0 | 654.6 | 1172.0 | 1378.7 |
| 125°   | 346.2 | 397.6 | 642.2 | 1085.3 | 1277.2 |
| 127.5° | 369.3 | 419.9 | 634.3 | 1008.9 | 1180.2 |
| 130°   | 383.1 | 433.8 | 631.2 | 965.1  | 1115.5 |
| 132.5° | 396.9 | 447.0 | 628.0 | 926.5  | 1064.7 |
| 135°   | 416.9 | 465.2 | 624.1 | 875.6  | 991.5  |
| 137.5° | 435.8 | 482.2 | 622.1 | 832.4  | 927.6  |
| 140°   | 449.0 | 493.6 | 620.2 | 805.8  | 891.8  |
| 142.5° | 462.9 | 504.3 | 618.9 | 781.0  | 853.5  |
| 145°   | 482.0 | 519.6 | 616.2 | 748.6  | 803.9  |
| 147.5° | 502.7 | 535.4 | 613.6 | 721.3  | 764.8  |
| 150°   | 516.5 | 544.9 | 612.3 | 704.2  | 740.3  |
| 152.5° | 529.1 | 553.8 | 611.7 | 690.2  | 719.6  |
| 155°   | 547.2 | 567.1 | 610.8 | 671.7  | 693.2  |
| 157.5° | 563.0 | 578.5 | 610.9 | 658.7  | 673.1  |
| 160°   | 573.1 | 586.1 | 611.5 | 651.0  | 661.8  |
| 162.5° | 581.9 | 592.5 | 612.2 | 644.7  | 652.4  |
| 165°   | 593.5 | 600.4 | 613.1 | 637.5  | 640.6  |
| 167.5° | 602.9 | 606.9 | 613.9 | 632.0  | 633.2  |
| 170°   | 609.2 | 610.7 | 613.9 | 628.8  | 628.8  |
| 172.5° | 613.0 | 613.3 | 614.5 | 625.7  | 625.7  |
| 175°   | 617.0 | 616.3 | 613.9 | 622.5  | 621.0  |
| 177.5° | 618.8 | 617.5 | 614.4 | 619.4  | 618.1  |
| 180°   | 616.2 | 616.2 | 616.2 | 616.2  | 616.2  |

(END OF REPORT)