

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: P564655

Luminaire Tested: **SQ4-PW1-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564655  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

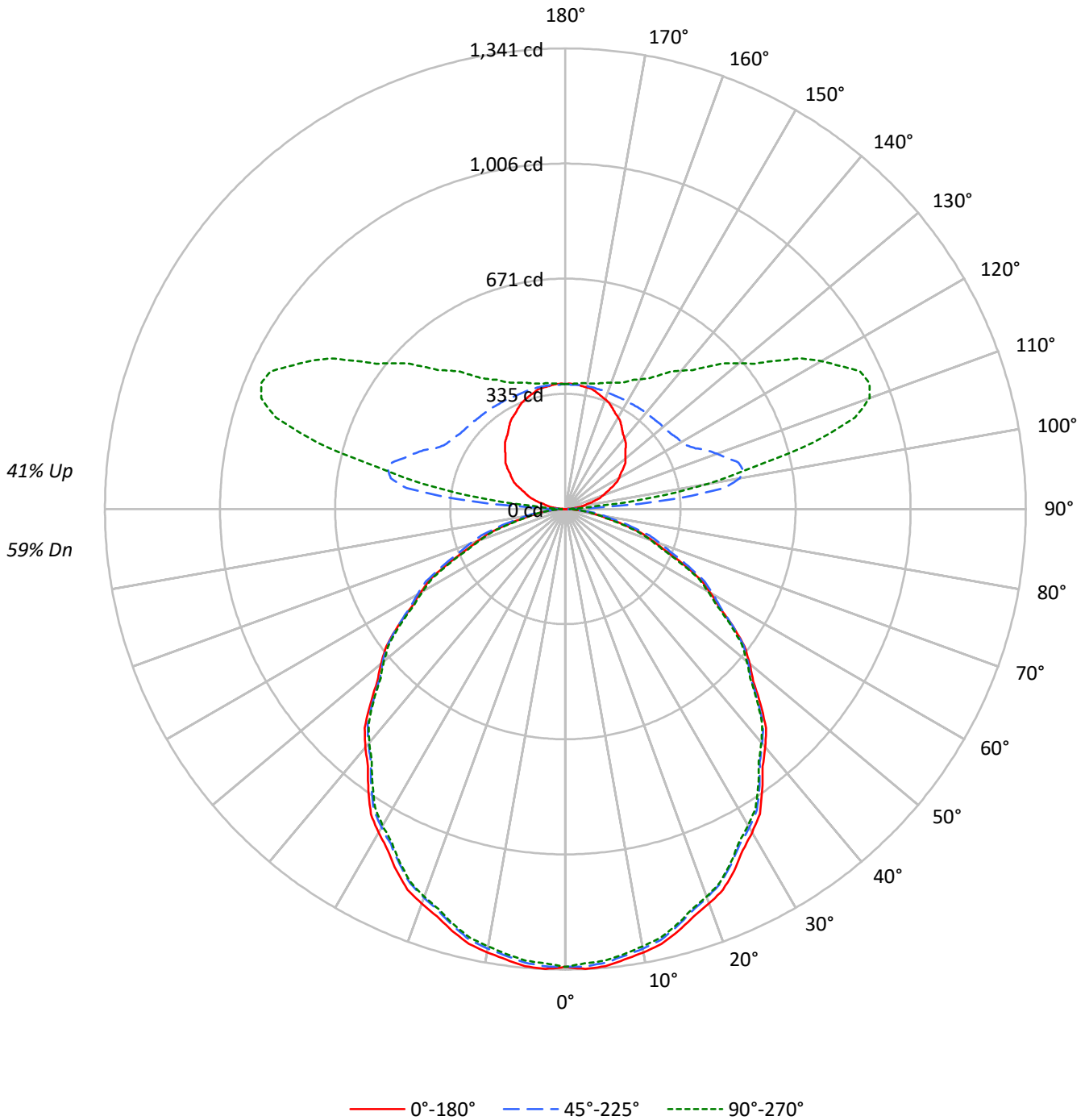
Lumens per Lamp: N/A  
Luminaire Lumens: 5771.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1   | 100 | 96  | 92  | 88  | 93  | 89  | 86  | 83  | 78 | 75 | 73 | 67 | 65 | 63 | 57 | 56 | 55 | 50 |
| 2   | 91  | 84  | 77  | 72  | 85  | 78  | 73  | 68  | 68 | 64 | 60 | 59 | 56 | 53 | 50 | 48 | 46 | 42 |
| 3   | 83  | 74  | 66  | 60  | 77  | 69  | 62  | 57  | 60 | 55 | 51 | 52 | 48 | 45 | 45 | 42 | 39 | 36 |
| 4   | 76  | 65  | 57  | 51  | 71  | 61  | 54  | 48  | 54 | 48 | 43 | 46 | 42 | 39 | 40 | 37 | 34 | 31 |
| 5   | 70  | 58  | 50  | 44  | 65  | 55  | 47  | 42  | 48 | 42 | 38 | 42 | 37 | 34 | 36 | 32 | 30 | 27 |
| 6   | 64  | 52  | 44  | 38  | 60  | 49  | 42  | 36  | 43 | 37 | 33 | 38 | 33 | 29 | 33 | 29 | 26 | 23 |
| 7   | 60  | 47  | 39  | 33  | 55  | 44  | 37  | 32  | 39 | 33 | 29 | 34 | 30 | 26 | 30 | 26 | 23 | 21 |
| 8   | 55  | 43  | 35  | 30  | 52  | 40  | 33  | 28  | 36 | 30 | 26 | 31 | 27 | 23 | 27 | 24 | 21 | 19 |
| 9   | 52  | 39  | 32  | 26  | 48  | 37  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 22 | 19 | 17 |
| 10  | 48  | 36  | 29  | 24  | 45  | 34  | 27  | 23  | 30 | 25 | 21 | 27 | 22 | 19 | 23 | 20 | 17 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8200 | 8200 | 8200 |
| 5°  | 8253 | 8188 | 8152 |
| 10° | 8187 | 8121 | 8077 |
| 15° | 8100 | 8011 | 7981 |
| 20° | 8004 | 7881 | 7865 |
| 25° | 7892 | 7748 | 7725 |
| 30° | 7725 | 7608 | 7558 |
| 35° | 7506 | 7400 | 7356 |
| 40° | 7271 | 7158 | 7130 |
| 45° | 6988 | 6897 | 6866 |
| 50° | 6699 | 6643 | 6598 |
| 55° | 6386 | 6386 | 6285 |
| 60° | 5997 | 6113 | 5895 |
| 65° | 5487 | 5760 | 5352 |
| 70° | 4838 | 5302 | 4710 |
| 75° | 4130 | 4746 | 4019 |
| 80° | 3202 | 3995 | 3245 |
| 85° | 2075 | 3070 | 2738 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.5  | 2.2       |
| 10°-20°   | 354.4  | 6.1       |
| 20°-30°   | 525.7  | 9.1       |
| 30°-40°   | 615.2  | 10.7      |
| 40°-50°   | 612.4  | 10.6      |
| 50°-60°   | 528.8  | 9.2       |
| 60°-70°   | 380.7  | 6.6       |
| 70°-80°   | 199.6  | 3.5       |
| 80°-90°   | 50.9   | 0.9       |
| 90°-100°  | 174.8  | 3.0       |
| 100°-110° | 474.9  | 8.2       |
| 110°-120° | 488.2  | 8.5       |
| 120°-130° | 390.4  | 6.8       |
| 130°-140° | 306.7  | 5.3       |
| 140°-150° | 235.2  | 4.1       |
| 150°-160° | 169.1  | 2.9       |
| 160°-170° | 103.4  | 1.8       |
| 170°-180° | 34.8   | 0.6       |
| 0°-30°    | 1005.7 | 17.4      |
| 0°-40°    | 1620.9 | 28.1      |
| 0°-60°    | 2762.2 | 47.9      |
| 0°-90°    | 3393.4 | 58.8      |
| 90°-120°  | 1137.9 | 19.7      |
| 90°-150°  | 2070.2 | 35.9      |
| 90°-180°  | 2378.0 | 41.2      |
| 0°-180°   | 5771.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1333 | 1333  | 1333 | 1333  | 1333 |      |
| 5°   | 1337 | 1322  | 1326 | 1323  | 1320 | 127  |
| 15°  | 1272 | 1256  | 1258 | 1256  | 1253 | 359  |
| 25°  | 1163 | 1143  | 1142 | 1135  | 1138 | 535  |
| 35°  | 1000 | 986   | 986  | 976   | 980  | 625  |
| 45°  | 803  | 796   | 793  | 790   | 789  | 620  |
| 55°  | 596  | 594   | 596  | 587   | 586  | 531  |
| 65°  | 377  | 388   | 396  | 380   | 368  | 374  |
| 75°  | 174  | 190   | 200  | 186   | 169  | 186  |
| 85°  | 29   | 39    | 44   | 41    | 39   | 39   |
| 90°  | 1    | 5     | 8    | 10    | 10   | 3    |
| 95°  | 26   | 96    | 304  | 132   | 89   | 27   |
| 105° | 84   | 131   | 522  | 795   | 748  | 90   |
| 115° | 150  | 182   | 418  | 832   | 947  | 148  |
| 125° | 206  | 235   | 378  | 637   | 752  | 184  |
| 135° | 248  | 276   | 368  | 519   | 585  | 192  |
| 145° | 287  | 308   | 363  | 441   | 474  | 180  |
| 155° | 324  | 336   | 361  | 396   | 408  | 150  |
| 165° | 351  | 356   | 362  | 377   | 378  | 99   |
| 175° | 364  | 365   | 363  | 368   | 366  | 35   |
| 180° | 364  | 364   | 364  | 364   | 364  |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1333.2 | 1333.2 | 1333.2 | 1333.2 | 1333.2 |
| 2.5°   | 1340.7 | 1329.7 | 1333.2 | 1330.2 | 1323.8 |
| 5°     | 1336.7 | 1321.8 | 1326.1 | 1322.6 | 1320.3 |
| 7.5°   | 1323.1 | 1309.3 | 1312.5 | 1308.7 | 1307.3 |
| 10°    | 1310.9 | 1297.1 | 1300.3 | 1295.5 | 1293.2 |
| 12.5°  | 1296.8 | 1282.1 | 1285.3 | 1280.5 | 1279.1 |
| 15°    | 1272.1 | 1256.0 | 1258.0 | 1255.6 | 1253.3 |
| 17.5°  | 1243.4 | 1227.1 | 1227.5 | 1223.7 | 1223.2 |
| 20°    | 1222.8 | 1205.5 | 1204.0 | 1199.3 | 1201.6 |
| 22.5°  | 1200.2 | 1182.1 | 1180.5 | 1174.0 | 1177.2 |
| 25°    | 1162.9 | 1143.3 | 1141.7 | 1134.8 | 1138.2 |
| 27.5°  | 1119.6 | 1100.3 | 1100.4 | 1090.6 | 1094.3 |
| 30°    | 1087.7 | 1069.3 | 1071.2 | 1059.6 | 1064.2 |
| 32.5°  | 1053.9 | 1037.3 | 1038.4 | 1026.7 | 1031.3 |
| 35°    | 999.6  | 985.8  | 985.5  | 976.2  | 979.6  |
| 37.5°  | 944.2  | 932.0  | 930.1  | 924.7  | 925.6  |
| 40°    | 905.6  | 895.3  | 891.5  | 888.0  | 888.0  |
| 42.5°  | 865.2  | 855.8  | 852.1  | 849.5  | 848.5  |
| 45°    | 803.4  | 796.5  | 792.9  | 790.5  | 789.3  |
| 47.5°  | 742.4  | 735.9  | 732.7  | 731.1  | 729.9  |
| 50°    | 700.1  | 695.5  | 694.2  | 690.6  | 689.5  |
| 52.5°  | 657.8  | 655.0  | 653.8  | 649.3  | 648.1  |
| 55°    | 595.5  | 594.4  | 595.5  | 587.3  | 586.1  |
| 57.5°  | 530.7  | 532.5  | 536.3  | 525.2  | 522.5  |
| 60°    | 487.5  | 492.1  | 496.9  | 483.8  | 479.2  |
| 62.5°  | 443.3  | 450.6  | 457.4  | 442.4  | 436.0  |
| 65°    | 377.0  | 388.5  | 395.8  | 380.3  | 367.7  |
| 67.5°  | 313.2  | 327.4  | 336.2  | 319.4  | 305.2  |
| 70°    | 269.0  | 285.1  | 294.8  | 278.0  | 261.9  |
| 72.5°  | 230.5  | 248.4  | 256.3  | 240.4  | 224.4  |
| 75°    | 173.8  | 189.9  | 199.7  | 186.4  | 169.1  |
| 77.5°  | 123.3  | 138.5  | 146.6  | 135.0  | 120.7  |
| 80°    | 90.4   | 106.5  | 112.8  | 103.1  | 91.6   |
| 82.5°  | 64.1   | 77.5   | 81.8   | 75.9   | 68.1   |
| 85°    | 29.4   | 38.6   | 43.5   | 41.1   | 38.8   |
| 87.5°  | 7.8    | 14.9   | 19.5   | 20.0   | 20.9   |
| 90°    | 1.2    | 4.6    | 8.2    | 10.5   | 10.5   |
| 92.5°  | 10.5   | 47.9   | 83.1   | 35.7   | 30.2   |
| 95°    | 25.8   | 95.6   | 304.4  | 132.5  | 89.0   |
| 97.5°  | 42.6   | 105.6  | 466.7  | 363.1  | 255.0  |
| 100°   | 53.9   | 112.2  | 516.4  | 523.4  | 422.7  |
| 102.5° | 65.1   | 118.9  | 529.5  | 647.4  | 558.5  |
| 105°   | 84.3   | 131.2  | 522.2  | 795.1  | 748.2  |
| 107.5° | 104.2  | 145.7  | 492.0  | 871.4  | 884.5  |
| 110°   | 118.3  | 156.0  | 469.5  | 886.5  | 942.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 130.4 | 166.4 | 447.0 | 874.0 | 958.5 |
| 115°   | 149.9 | 181.9 | 418.0 | 831.6 | 947.2 |
| 117.5° | 168.1 | 198.8 | 399.5 | 771.5 | 901.8 |
| 120°   | 180.3 | 210.1 | 391.1 | 731.2 | 860.6 |
| 122.5° | 190.6 | 220.4 | 385.5 | 690.9 | 815.6 |
| 125°   | 206.1 | 234.7 | 378.2 | 637.2 | 751.7 |
| 127.5° | 219.9 | 248.3 | 374.2 | 596.6 | 694.8 |
| 130°   | 228.3 | 255.8 | 372.3 | 571.1 | 659.2 |
| 132.5° | 236.8 | 264.2 | 370.5 | 549.3 | 627.4 |
| 135°   | 248.2 | 275.7 | 367.7 | 519.0 | 585.4 |
| 137.5° | 260.6 | 285.6 | 366.3 | 492.3 | 548.2 |
| 140°   | 268.1 | 292.2 | 365.3 | 475.4 | 525.7 |
| 142.5° | 275.6 | 297.8 | 364.4 | 462.1 | 504.2 |
| 145°   | 286.9 | 307.5 | 363.0 | 441.0 | 474.2 |
| 147.5° | 299.5 | 317.1 | 361.8 | 424.5 | 450.6 |
| 150°   | 307.9 | 322.8 | 361.8 | 415.0 | 435.6 |
| 152.5° | 314.5 | 327.6 | 360.9 | 406.4 | 423.4 |
| 155°   | 324.3 | 335.8 | 360.6 | 396.0 | 407.5 |
| 157.5° | 333.9 | 342.9 | 360.6 | 388.9 | 397.6 |
| 160°   | 339.6 | 347.6 | 360.6 | 384.2 | 391.1 |
| 162.5° | 345.2 | 351.4 | 361.6 | 380.4 | 385.5 |
| 165°   | 351.3 | 355.8 | 361.8 | 377.1 | 378.2 |
| 167.5° | 357.6 | 359.9 | 363.0 | 373.1 | 374.0 |
| 170°   | 359.5 | 361.8 | 363.0 | 371.2 | 371.2 |
| 172.5° | 361.3 | 362.7 | 363.0 | 369.3 | 369.3 |
| 175°   | 364.1 | 365.3 | 363.0 | 367.6 | 366.5 |
| 177.5° | 365.1 | 365.1 | 362.3 | 366.0 | 364.1 |
| 180°   | 364.1 | 364.1 | 364.1 | 364.1 | 364.1 |

(END OF REPORT)