

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: P523736

Luminaire Tested: **SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523736  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6003.9 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

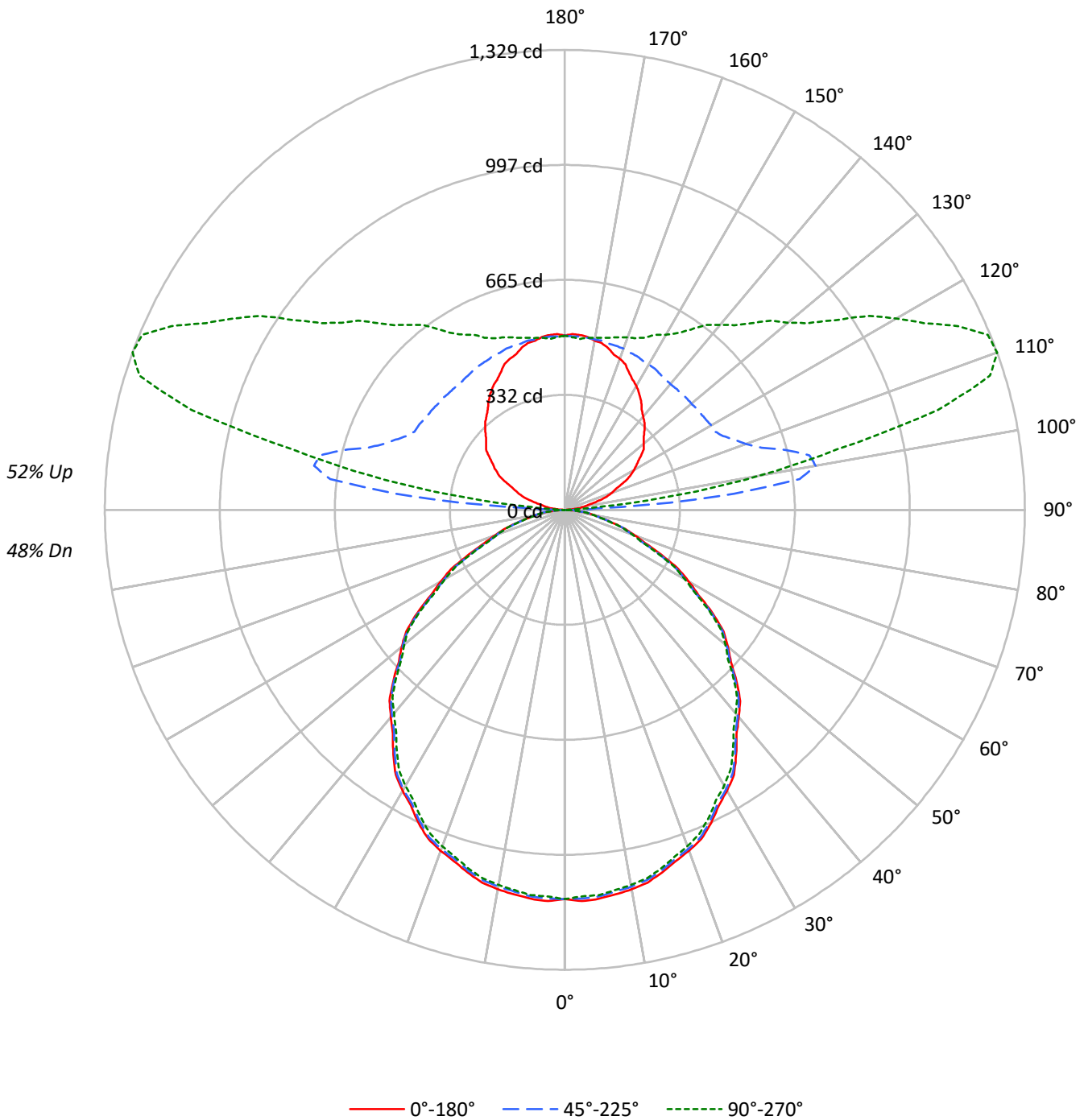
Input Watts (W): 55.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P523736

CATALOG NUMBER: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P523736

CATALOG NUMBER: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

**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 | 50 | 30 | 10 | 0  |    |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 |    |    |    | 48 |
| 1   | 98  | 93  | 90  | 86  | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 48 | 47 | 46 |    |    |    | 41 |    |
| 2   | 89  | 82  | 76  | 71  | 82 | 75 | 70 | 66 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 |    |    |    | 34 |    |
| 3   | 81  | 72  | 65  | 59  | 74 | 66 | 60 | 55 | 56 | 52 | 48 | 47 | 43 | 40 | 38 | 36 | 33 |    |    |    | 29 |    |
| 4   | 74  | 64  | 56  | 50  | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 |    |    |    | 25 |    |
| 5   | 68  | 57  | 49  | 43  | 63 | 53 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 |    |    |    | 22 |    |
| 6   | 63  | 51  | 43  | 37  | 58 | 47 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 26 | 28 | 25 | 22 |    |    |    | 19 |    |
| 7   | 58  | 46  | 38  | 33  | 53 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 23 | 25 | 22 | 20 |    |    |    | 17 |    |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 |    |    |    | 15 |    |
| 9   | 50  | 38  | 31  | 26  | 46 | 35 | 29 | 24 | 31 | 25 | 21 | 26 | 22 | 19 | 21 | 18 | 16 |    |    |    | 14 |    |
| 10  | 47  | 35  | 28  | 23  | 43 | 33 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 |    |    |    | 13 |    |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10374 | 10374 | 10374 |
| 5°  | 10450 | 10387 | 10350 |
| 10° | 10433 | 10359 | 10313 |
| 15° | 10364 | 10307 | 10251 |
| 20° | 10295 | 10237 | 10159 |
| 25° | 10173 | 10103 | 10002 |
| 30° | 9984  | 9931  | 9805  |
| 35° | 9723  | 9656  | 9534  |
| 40° | 9412  | 9352  | 9246  |
| 45° | 9154  | 9090  | 9000  |
| 50° | 8826  | 8770  | 8685  |
| 55° | 8369  | 8258  | 8196  |
| 60° | 7619  | 7401  | 7364  |
| 65° | 6713  | 6434  | 6412  |
| 70° | 5794  | 5557  | 5557  |
| 75° | 4987  | 4919  | 4848  |
| 80° | 4399  | 4452  | 4346  |
| 85° | 3440  | 3758  | 3758  |



TEST NUMBER: P523736

CATALOG NUMBER: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 106.3  | 1.8       |
| 10°-20°   | 303.6  | 5.1       |
| 20°-30°   | 454.7  | 7.6       |
| 30°-40°   | 533.4  | 8.9       |
| 40°-50°   | 535.0  | 8.9       |
| 50°-60°   | 456.4  | 7.6       |
| 60°-70°   | 297.7  | 5.0       |
| 70°-80°   | 149.4  | 2.5       |
| 80°-90°   | 41.3   | 0.7       |
| 90°-100°  | 229.3  | 3.8       |
| 100°-110° | 652.5  | 10.9      |
| 110°-120° | 625.2  | 10.4      |
| 120°-130° | 494.8  | 8.2       |
| 130°-140° | 397.1  | 6.6       |
| 140°-150° | 310.9  | 5.2       |
| 150°-160° | 227.5  | 3.8       |
| 160°-170° | 140.9  | 2.3       |
| 170°-180° | 47.8   | 0.8       |
| 0°-30°    | 864.6  | 14.4      |
| 0°-40°    | 1398.0 | 23.3      |
| 0°-60°    | 2389.5 | 39.8      |
| 0°-90°    | 2877.9 | 47.9      |
| 90°-120°  | 1507.0 | 25.1      |
| 90°-150°  | 2709.8 | 45.1      |
| 90°-180°  | 3126.0 | 52.1      |
| 0°-180°   | 6003.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1124 | 1124  | 1124 | 1124  | 1124 |      |
| 5°   | 1128 | 1118  | 1122 | 1118  | 1118 | 107  |
| 15°  | 1085 | 1074  | 1079 | 1075  | 1073 | 306  |
| 25°  | 999  | 988   | 992  | 984   | 982  | 460  |
| 35°  | 863  | 855   | 857  | 848   | 846  | 539  |
| 45°  | 702  | 697   | 697  | 690   | 690  | 540  |
| 55°  | 520  | 518   | 513  | 510   | 510  | 462  |
| 65°  | 308  | 302   | 295  | 293   | 294  | 307  |
| 75°  | 140  | 140   | 138  | 137   | 136  | 152  |
| 85°  | 32   | 35    | 36   | 36    | 36   | 38   |
| 90°  | 0    | 0     | 0    | 0     | 0    | 2    |
| 95°  | 25   | 99    | 444  | 154   | 95   | 28   |
| 105° | 101  | 154   | 665  | 1174  | 1116 | 107  |
| 115° | 188  | 228   | 504  | 1068  | 1254 | 186  |
| 125° | 266  | 295   | 481  | 799   | 955  | 238  |
| 135° | 325  | 352   | 476  | 675   | 762  | 251  |
| 145° | 384  | 403   | 479  | 584   | 636  | 240  |
| 155° | 438  | 448   | 491  | 528   | 549  | 203  |
| 165° | 484  | 486   | 496  | 507   | 515  | 136  |
| 175° | 507  | 504   | 502  | 499   | 496  | 48   |
| 180° | 503  | 503   | 503  | 503   | 503  |      |

TEST NUMBER: P523736

CATALOG NUMBER: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1124.4 | 1124.4 | 1124.4 | 1124.4 | 1124.4 |
| 2.5°   | 1131.5 | 1122.3 | 1124.4 | 1122.7 | 1118.1 |
| 5°     | 1128.3 | 1117.8 | 1121.5 | 1117.5 | 1117.5 |
| 7.5°   | 1120.7 | 1109.1 | 1112.8 | 1108.8 | 1108.6 |
| 10°    | 1113.6 | 1102.0 | 1105.7 | 1101.7 | 1100.8 |
| 12.5°  | 1103.3 | 1091.8 | 1096.2 | 1091.5 | 1091.3 |
| 15°    | 1085.0 | 1074.4 | 1079.1 | 1075.1 | 1073.2 |
| 17.5°  | 1064.3 | 1052.7 | 1058.4 | 1052.8 | 1052.1 |
| 20°    | 1048.5 | 1037.0 | 1042.6 | 1034.7 | 1034.7 |
| 22.5°  | 1029.6 | 1018.0 | 1024.5 | 1014.2 | 1014.2 |
| 25°    | 999.3  | 987.7  | 992.4  | 983.5  | 982.5  |
| 27.5°  | 963.2  | 951.8  | 956.7  | 946.6  | 946.4  |
| 30°    | 937.2  | 926.6  | 932.2  | 921.4  | 920.4  |
| 32.5°  | 908.8  | 899.0  | 903.1  | 892.2  | 891.2  |
| 35°    | 863.3  | 854.6  | 857.3  | 847.5  | 846.5  |
| 37.5°  | 815.4  | 806.5  | 809.7  | 801.2  | 800.8  |
| 40°    | 781.5  | 775.7  | 776.5  | 769.6  | 767.7  |
| 42.5°  | 749.9  | 743.4  | 744.2  | 737.3  | 736.9  |
| 45°    | 701.6  | 696.8  | 696.7  | 689.8  | 689.8  |
| 47.5°  | 650.4  | 646.7  | 645.7  | 640.0  | 639.8  |
| 50°    | 614.9  | 612.0  | 611.0  | 606.0  | 605.1  |
| 52.5°  | 577.9  | 576.5  | 573.1  | 569.0  | 568.8  |
| 55°    | 520.3  | 518.4  | 513.4  | 510.4  | 509.5  |
| 57.5°  | 457.8  | 454.0  | 448.4  | 444.1  | 444.8  |
| 60°    | 412.9  | 409.1  | 401.1  | 399.1  | 399.1  |
| 62.5°  | 369.5  | 364.9  | 356.9  | 354.2  | 355.8  |
| 65°    | 307.5  | 301.7  | 294.7  | 292.7  | 293.7  |
| 67.5°  | 251.1  | 245.9  | 238.3  | 238.3  | 237.5  |
| 70°    | 214.8  | 211.9  | 206.0  | 206.0  | 206.0  |
| 72.5°  | 182.5  | 181.2  | 176.8  | 176.8  | 176.0  |
| 75°    | 139.9  | 139.9  | 138.0  | 137.0  | 136.0  |
| 77.5°  | 104.9  | 105.2  | 104.3  | 103.2  | 101.5  |
| 80°    | 82.8   | 84.7   | 83.8   | 82.8   | 81.8   |
| 82.5°  | 62.3   | 64.2   | 64.1   | 62.3   | 62.1   |
| 85°    | 32.5   | 35.4   | 35.5   | 35.5   | 35.5   |
| 87.5°  | 8.7    | 11.8   | 12.6   | 12.6   | 13.4   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 7.7    | 40.6   | 94.1   | 27.4   | 20.7   |
| 95°    | 24.9   | 98.8   | 443.9  | 153.7  | 94.7   |
| 97.5°  | 45.7   | 115.7  | 683.7  | 489.2  | 335.2  |
| 100°   | 60.3   | 125.8  | 735.7  | 745.2  | 574.0  |
| 102.5° | 76.3   | 136.6  | 724.3  | 953.9  | 804.4  |
| 105°   | 101.4  | 153.8  | 664.9  | 1174.5 | 1116.5 |
| 107.5° | 126.9  | 173.8  | 595.7  | 1236.7 | 1288.3 |
| 110°   | 144.5  | 188.4  | 555.9  | 1212.9 | 1328.9 |

TEST NUMBER: P523736

CATALOG NUMBER: SQ4-PP3-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5°  | 90°    |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 161.3 | 203.0 | 529.1 | 1156.6 | 1322.0 |
| 115°   | 188.5 | 227.8 | 504.2 | 1068.1 | 1254.3 |
| 117.5° | 212.4 | 249.3 | 489.5 | 971.4  | 1168.6 |
| 120°   | 231.5 | 262.4 | 487.9 | 916.1  | 1105.0 |
| 122.5° | 246.8 | 277.7 | 484.1 | 867.5  | 1043.0 |
| 125°   | 266.0 | 295.0 | 481.2 | 798.6  | 954.8  |
| 127.5° | 286.8 | 314.0 | 479.7 | 757.4  | 886.1  |
| 130°   | 297.5 | 324.7 | 477.4 | 728.7  | 841.0  |
| 132.5° | 309.0 | 335.4 | 477.4 | 706.3  | 809.6  |
| 135°   | 325.3 | 352.4 | 475.5 | 674.6  | 762.5  |
| 137.5° | 340.6 | 367.0 | 475.3 | 647.7  | 723.7  |
| 140°   | 352.1 | 379.2 | 474.5 | 625.5  | 698.4  |
| 142.5° | 365.1 | 387.7 | 476.8 | 607.7  | 673.2  |
| 145°   | 383.7 | 403.3 | 479.3 | 583.8  | 636.2  |
| 147.5° | 399.5 | 418.6 | 483.5 | 559.8  | 605.0  |
| 150°   | 413.3 | 426.4 | 485.1 | 551.8  | 583.6  |
| 152.5° | 424.0 | 437.9 | 486.6 | 541.0  | 570.6  |
| 155°   | 438.2 | 448.5 | 490.8 | 527.7  | 549.2  |
| 157.5° | 455.8 | 462.0 | 491.8 | 521.6  | 536.9  |
| 160°   | 465.0 | 469.7 | 495.6 | 516.9  | 530.0  |
| 162.5° | 470.3 | 475.8 | 496.4 | 513.0  | 523.1  |
| 165°   | 484.1 | 486.0 | 496.5 | 507.2  | 514.7  |
| 167.5° | 493.5 | 491.8 | 500.9 | 505.8  | 508.8  |
| 170°   | 496.5 | 495.6 | 499.4 | 500.5  | 504.2  |
| 172.5° | 503.4 | 500.3 | 501.7 | 498.9  | 501.9  |
| 175°   | 507.1 | 504.3 | 502.3 | 499.3  | 495.6  |
| 177.5° | 508.6 | 504.1 | 501.7 | 498.7  | 499.4  |
| 180°   | 503.2 | 503.2 | 503.2 | 503.2  | 503.2  |

(END OF REPORT)