

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845005

Luminaire Tested: **SQ4P-PC3-075U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845005  
REPORT IS A COMBINATION OF REPORTS P700224 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-075U-075D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

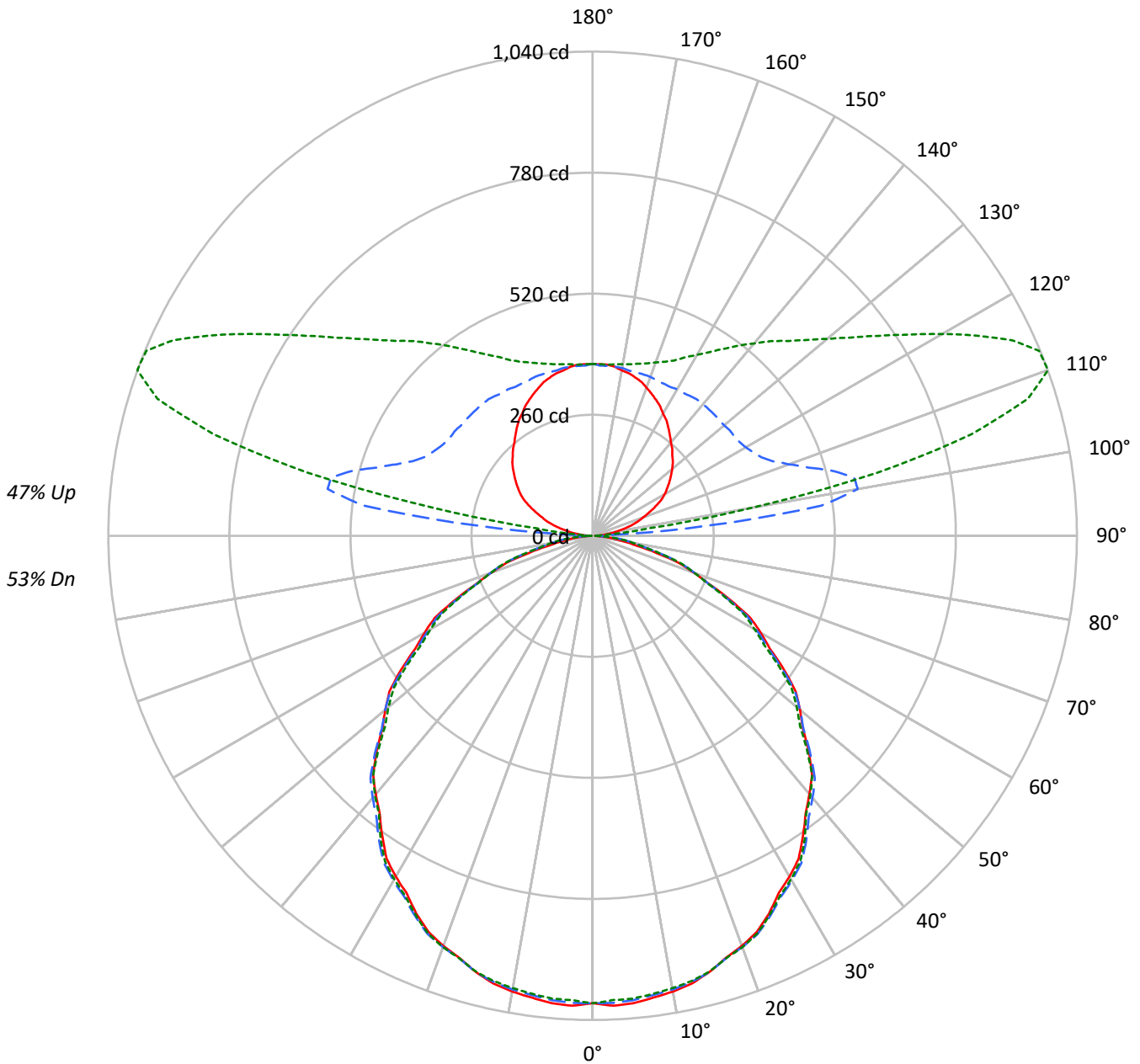
Lumens per Lamp: N/A  
Luminaire Lumens: 5135.5 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

TEST NUMBER: P845005

CATALOG NUMBER: SQ4P-PC3-075U-075D-B50-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845005

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |    | 20 |    |    |    |    |    |    |    |    | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |    | 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   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 | 53 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 99  | 94  | 90  | 87  | 91  | 88  | 84  | 81  | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 | 45 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 90  | 82  | 76  | 71  | 83  | 77  | 71  | 67  | 66 | 62 | 58 | 56 | 53 | 50 | 46 | 44 | 42 | 38 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 82  | 72  | 65  | 59  | 76  | 67  | 61  | 56  | 58 | 53 | 49 | 49 | 45 | 42 | 41 | 38 | 36 | 32 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 75  | 64  | 56  | 50  | 69  | 60  | 53  | 47  | 51 | 46 | 42 | 44 | 40 | 36 | 37 | 33 | 31 | 27 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 69  | 57  | 49  | 43  | 63  | 53  | 46  | 40  | 46 | 40 | 36 | 39 | 35 | 31 | 33 | 30 | 27 | 24 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 63  | 51  | 43  | 37  | 58  | 48  | 40  | 35  | 41 | 36 | 31 | 35 | 31 | 27 | 30 | 26 | 24 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 59  | 46  | 38  | 32  | 54  | 43  | 36  | 31  | 37 | 32 | 27 | 32 | 28 | 24 | 27 | 24 | 21 | 18 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 54  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 28 | 24 | 29 | 25 | 22 | 25 | 21 | 19 | 16 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 51  | 38  | 31  | 26  | 47  | 36  | 29  | 24  | 31 | 26 | 22 | 27 | 23 | 19 | 23 | 19 | 17 | 15 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 26  | 22  | 29 | 23 | 20 | 25 | 21 | 17 | 21 | 18 | 15 | 13 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9265 | 9265 | 9265 |
| 5°  | 9336 | 9274 | 9241 |
| 10° | 9313 | 9269 | 9243 |
| 15° | 9264 | 9264 | 9256 |
| 20° | 9204 | 9230 | 9230 |
| 25° | 9117 | 9181 | 9154 |
| 30° | 9004 | 9114 | 9075 |
| 35° | 8871 | 9007 | 8944 |
| 40° | 8723 | 8847 | 8760 |
| 45° | 8566 | 8627 | 8493 |
| 50° | 8342 | 8342 | 8209 |
| 55° | 8078 | 7972 | 7853 |
| 60° | 7687 | 7532 | 7412 |
| 65° | 7104 | 6962 | 6901 |
| 70° | 6223 | 6269 | 6248 |
| 75° | 5005 | 5536 | 5572 |
| 80° | 3560 | 4692 | 4745 |
| 85° | 2181 | 3938 | 3938 |



TEST NUMBER: P845005

CATALOG NUMBER: SQ4P-PC3-075U-075D-B50-1D-UNV

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.0   | 1.9       |
| 10°-20°   | 272.7  | 5.3       |
| 20°-30°   | 413.0  | 8.0       |
| 30°-40°   | 495.2  | 9.6       |
| 40°-50°   | 504.9  | 9.8       |
| 50°-60°   | 440.8  | 8.6       |
| 60°-70°   | 315.5  | 6.1       |
| 70°-80°   | 162.5  | 3.2       |
| 80°-90°   | 42.0   | 0.8       |
| 90°-100°  | 146.8  | 2.9       |
| 100°-110° | 510.8  | 9.9       |
| 110°-120° | 494.8  | 9.6       |
| 120°-130° | 388.1  | 7.6       |
| 130°-140° | 307.2  | 6.0       |
| 140°-150° | 237.1  | 4.6       |
| 150°-160° | 169.9  | 3.3       |
| 160°-170° | 103.9  | 2.0       |
| 170°-180° | 35.2   | 0.7       |
| 0°-30°    | 780.8  | 15.2      |
| 0°-40°    | 1276.0 | 24.8      |
| 0°-60°    | 2221.7 | 43.3      |
| 0°-90°    | 2741.8 | 53.4      |
| 90°-120°  | 1152.3 | 22.4      |
| 90°-150°  | 2084.7 | 40.6      |
| 90°-180°  | 2394.0 | 46.6      |
| 0°-180°   | 5135.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1004 | 1004  | 1004 | 1004  | 1004 |      |
| 5°   | 1008 | 998   | 1001 | 999   | 998  | 96   |
| 15°  | 970  | 962   | 970  | 970   | 969  | 273  |
| 25°  | 896  | 889   | 902  | 899   | 899  | 412  |
| 35°  | 788  | 786   | 800  | 794   | 794  | 493  |
| 45°  | 656  | 655   | 661  | 653   | 651  | 505  |
| 55°  | 502  | 496   | 496  | 488   | 488  | 448  |
| 65°  | 325  | 318   | 319  | 316   | 316  | 322  |
| 75°  | 140  | 147   | 155  | 156   | 156  | 152  |
| 85°  | 21   | 31    | 37   | 38    | 37   | 28   |
| 90°  | 6    | 8     | 8    | 6     | 3    | 4    |
| 95°  | 25   | 85    | 248  | 63    | 39   | 26   |
| 105° | 85   | 121   | 537  | 906   | 842  | 90   |
| 115° | 149  | 179   | 399  | 842   | 994  | 147  |
| 125° | 201  | 248   | 372  | 628   | 749  | 180  |
| 135° | 242  | 272   | 369  | 523   | 592  | 188  |
| 145° | 284  | 303   | 366  | 452   | 490  | 177  |
| 155° | 322  | 333   | 360  | 402   | 416  | 148  |
| 165° | 352  | 355   | 363  | 380   | 383  | 99   |
| 175° | 369  | 369   | 366  | 372   | 369  | 35   |
| 180° | 369  | 369   | 369  | 369   | 369  |      |



TEST NUMBER: P845005

CATALOG NUMBER: SQ4P-PC3-075U-075D-B50-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1004.2 | 1004.2 | 1004.2 | 1004.2 | 1004.2 |
| 2.5°   | 1010.3 | 1001.4 | 1004.2 | 1002.0 | 998.3  |
| 5°     | 1008.1 | 997.9  | 1001.4 | 998.6  | 997.8  |
| 7.5°   | 1000.7 | 990.8  | 995.4  | 993.4  | 992.5  |
| 10°    | 994.1  | 984.0  | 989.4  | 987.5  | 986.6  |
| 12.5°  | 985.2  | 975.8  | 981.9  | 980.2  | 979.8  |
| 15°    | 969.9  | 961.7  | 969.9  | 969.9  | 969.0  |
| 17.5°  | 950.7  | 943.3  | 951.9  | 952.6  | 951.9  |
| 20°    | 937.4  | 929.2  | 940.1  | 939.2  | 940.1  |
| 22.5°  | 921.0  | 914.3  | 925.9  | 923.6  | 924.5  |
| 25°    | 895.6  | 889.1  | 901.9  | 899.2  | 899.2  |
| 27.5°  | 865.4  | 860.7  | 874.8  | 871.8  | 871.8  |
| 30°    | 845.2  | 840.7  | 855.5  | 851.8  | 851.8  |
| 32.5°  | 822.9  | 819.9  | 834.0  | 829.5  | 829.5  |
| 35°    | 787.6  | 785.7  | 799.7  | 794.1  | 794.1  |
| 37.5°  | 751.1  | 749.5  | 762.2  | 755.4  | 753.2  |
| 40°    | 724.3  | 723.5  | 734.6  | 727.3  | 727.3  |
| 42.5°  | 697.5  | 696.6  | 706.4  | 697.5  | 697.5  |
| 45°    | 656.5  | 654.6  | 661.2  | 652.7  | 650.9  |
| 47.5°  | 611.7  | 609.9  | 613.9  | 604.7  | 603.8  |
| 50°    | 581.2  | 579.3  | 581.2  | 572.7  | 571.9  |
| 52.5°  | 550.0  | 546.6  | 546.9  | 538.6  | 538.4  |
| 55°    | 502.2  | 495.8  | 495.6  | 488.2  | 488.2  |
| 57.5°  | 451.5  | 443.2  | 444.0  | 437.6  | 436.6  |
| 60°    | 416.6  | 407.5  | 408.2  | 402.6  | 401.7  |
| 62.5°  | 382.3  | 371.9  | 374.0  | 367.7  | 367.6  |
| 65°    | 325.4  | 318.2  | 318.9  | 316.1  | 316.1  |
| 67.5°  | 270.8  | 264.0  | 268.9  | 266.8  | 266.6  |
| 70°    | 230.7  | 226.0  | 232.4  | 232.4  | 231.6  |
| 72.5°  | 193.5  | 193.3  | 201.2  | 201.2  | 201.8  |
| 75°    | 140.4  | 146.8  | 155.3  | 156.3  | 156.3  |
| 77.5°  | 93.8   | 105.0  | 114.4  | 114.7  | 114.6  |
| 80°    | 67.0   | 79.7   | 88.3   | 90.3   | 89.3   |
| 82.5°  | 45.3   | 58.8   | 66.1   | 67.8   | 67.0   |
| 85°    | 20.6   | 31.4   | 37.2   | 38.2   | 37.2   |
| 87.5°  | 5.9    | 12.5   | 14.9   | 14.9   | 13.4   |
| 90°    | 5.5    | 8.3    | 8.3    | 5.5    | 2.8    |
| 92.5°  | 13.8   | 41.3   | 38.6   | 16.5   | 13.8   |
| 95°    | 24.8   | 85.3   | 247.7  | 63.3   | 38.6   |
| 97.5°  | 38.6   | 96.3   | 495.4  | 225.7  | 121.1  |
| 100°   | 52.3   | 101.9  | 578.0  | 542.3  | 349.6  |
| 102.5° | 68.8   | 110.1  | 575.3  | 762.5  | 627.6  |
| 105°   | 85.3   | 121.1  | 536.8  | 905.6  | 842.3  |



TEST NUMBER: P845005

CATALOG NUMBER: SQ4P-PC3-075U-075D-B50-1D-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°    |
|--------|-------|-------|-------|-------|--------|
| 112.5° | 132.1 | 162.4 | 418.4 | 911.1 | 1037.7 |
| 115°   | 148.6 | 178.9 | 399.1 | 842.3 | 993.6  |
| 117.5° | 165.2 | 198.2 | 388.1 | 778.9 | 930.3  |
| 120°   | 178.9 | 214.7 | 379.9 | 718.4 | 867.0  |
| 122.5° | 189.9 | 231.2 | 374.3 | 668.9 | 803.7  |
| 125°   | 201.0 | 247.7 | 371.6 | 627.6 | 748.7  |
| 127.5° | 211.9 | 258.8 | 371.6 | 597.3 | 699.2  |
| 130°   | 223.0 | 264.3 | 368.8 | 567.0 | 657.8  |
| 132.5° | 233.9 | 266.9 | 368.8 | 545.0 | 622.1  |
| 135°   | 242.2 | 272.5 | 368.8 | 522.9 | 591.8  |
| 137.5° | 253.2 | 278.0 | 368.8 | 503.7 | 567.0  |
| 140°   | 261.5 | 286.3 | 368.8 | 484.4 | 539.5  |
| 142.5° | 272.5 | 294.6 | 368.8 | 465.2 | 514.7  |
| 145°   | 283.5 | 302.7 | 366.1 | 451.5 | 489.9  |
| 147.5° | 294.6 | 311.0 | 363.3 | 437.6 | 467.9  |
| 150°   | 302.7 | 319.3 | 363.3 | 423.8 | 448.7  |
| 152.5° | 313.8 | 327.5 | 360.5 | 410.1 | 432.1  |
| 155°   | 322.1 | 333.0 | 360.5 | 401.8 | 415.7  |
| 157.5° | 330.3 | 341.3 | 360.5 | 393.6 | 404.6  |
| 160°   | 338.5 | 346.8 | 363.3 | 388.1 | 396.3  |
| 162.5° | 346.8 | 352.3 | 363.3 | 382.6 | 388.1  |
| 165°   | 352.3 | 355.1 | 363.3 | 379.9 | 382.6  |
| 167.5° | 357.9 | 360.5 | 363.3 | 377.1 | 377.1  |
| 170°   | 360.5 | 363.3 | 366.1 | 374.3 | 374.3  |
| 172.5° | 366.1 | 366.1 | 366.1 | 371.6 | 371.6  |
| 175°   | 368.8 | 368.8 | 366.1 | 371.6 | 368.8  |
| 177.5° | 368.8 | 368.8 | 366.1 | 371.6 | 368.8  |
| 180°   | 368.8 | 368.8 | 368.8 | 368.8 | 368.8  |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







|        |       |       |       |       |        |
|--------|-------|-------|-------|-------|--------|
| 107.5° | 101.9 | 134.9 | 487.2 | 968.9 | 979.9  |
| 110°   | 115.6 | 148.6 | 448.7 | 960.6 | 1040.5 |



(END OF REPORT)