

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: P521467

Luminaire Tested: **SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521467
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

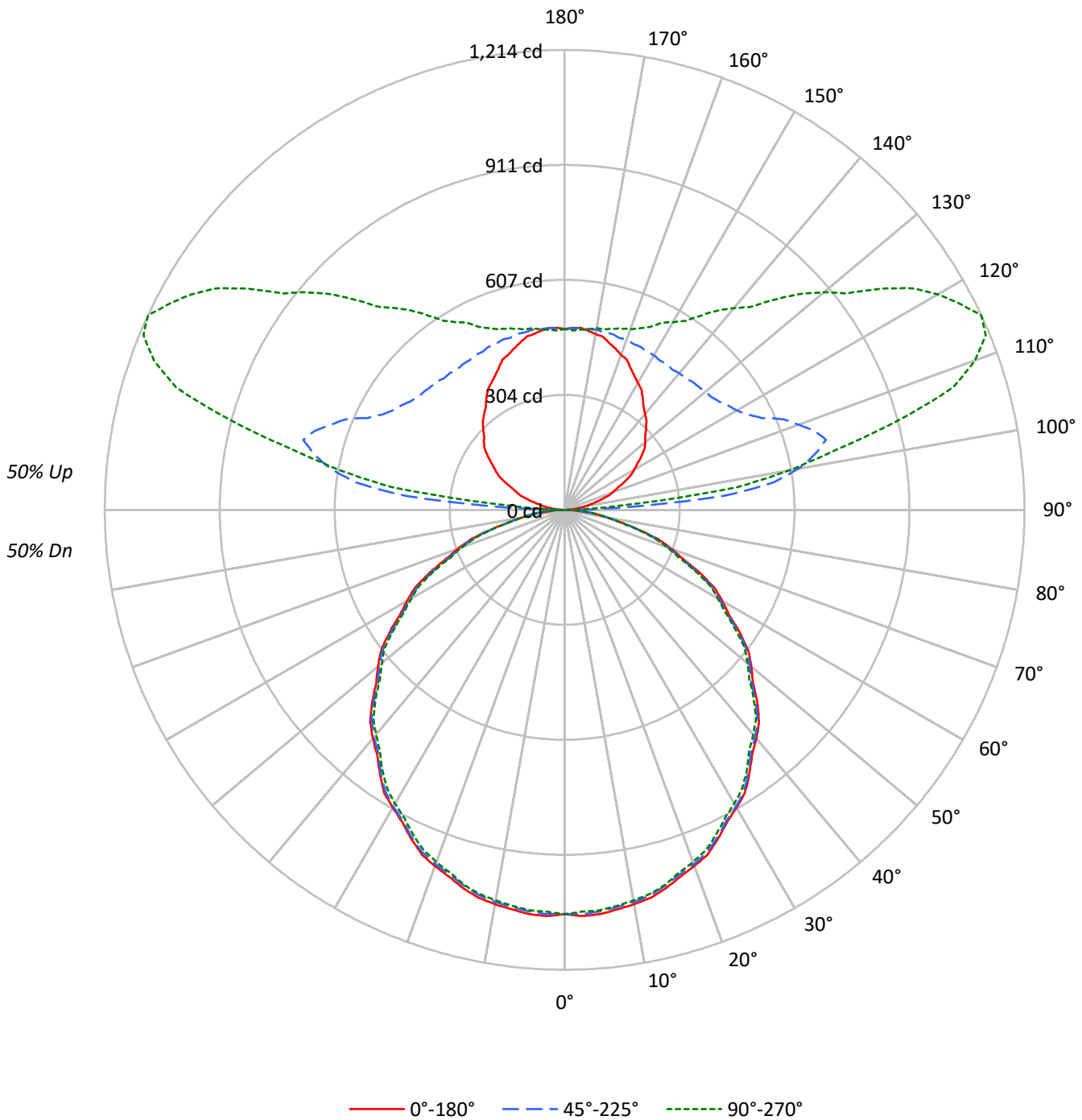
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6132.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.2
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: P521467
CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P521467

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)

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 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 60 | 59 | 57 | 49 | 48 | 47 | 42 | | | | |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 53 | 50 | 47 | 43 | 41 | 39 | 35 | | | | |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 59 | 54 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 35 | 33 | 29 | | | | |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 | | | | |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 39 | 44 | 39 | 34 | 37 | 33 | 29 | 30 | 27 | 25 | 21 | | | | |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | | | | |
| 7 | 58 | 45 | 37 | 31 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 16 | | | | |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 | | | | |
| 9 | 50 | 37 | 30 | 25 | 46 | 35 | 28 | 23 | 30 | 24 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 | | | | |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 20 | 16 | 14 | 12 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9846 | 9846 | 9846 |
| 5° | 9922 | 9856 | 9828 |
| 10° | 9903 | 9847 | 9809 |
| 15° | 9875 | 9808 | 9789 |
| 20° | 9823 | 9774 | 9714 |
| 25° | 9753 | 9712 | 9630 |
| 30° | 9669 | 9636 | 9539 |
| 35° | 9574 | 9527 | 9447 |
| 40° | 9482 | 9421 | 9324 |
| 45° | 9376 | 9297 | 9204 |
| 50° | 9226 | 9153 | 9037 |
| 55° | 9071 | 8958 | 8844 |
| 60° | 8859 | 8710 | 8615 |
| 65° | 8582 | 8361 | 8252 |
| 70° | 8071 | 7853 | 7769 |
| 75° | 7204 | 7062 | 6955 |
| 80° | 5961 | 6014 | 5961 |
| 85° | 4277 | 4817 | 5028 |



TEST NUMBER: P521467

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.0 | 1.6 |
| 10°-20° | 289.3 | 4.7 |
| 20°-30° | 437.5 | 7.1 |
| 30°-40° | 526.8 | 8.6 |
| 40°-50° | 547.2 | 8.9 |
| 50°-60° | 496.5 | 8.1 |
| 60°-70° | 378.7 | 6.2 |
| 70°-80° | 211.0 | 3.4 |
| 80°-90° | 55.4 | 0.9 |
| 90°-100° | 246.0 | 4.0 |
| 100°-110° | 594.5 | 9.7 |
| 110°-120° | 634.1 | 10.3 |
| 120°-130° | 513.5 | 8.4 |
| 130°-140° | 397.6 | 6.5 |
| 140°-150° | 303.3 | 4.9 |
| 150°-160° | 219.6 | 3.6 |
| 160°-170° | 135.2 | 2.2 |
| 170°-180° | 45.8 | 0.7 |
| 0°-30° | 827.8 | 13.5 |
| 0°-40° | 1354.6 | 22.1 |
| 0°-60° | 2398.3 | 39.1 |
| 0°-90° | 3043.3 | 49.6 |
| 90°-120° | 1474.5 | 24.0 |
| 90°-150° | 2689.0 | 43.8 |
| 90°-180° | 3090.0 | 50.4 |
| 0°-180° | 6132.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1067 | 1067 | 1067 | 1067 | 1067 | |
| 5° | 1071 | 1061 | 1064 | 1062 | 1061 | 102 |
| 15° | 1034 | 1022 | 1027 | 1025 | 1025 | 292 |
| 25° | 958 | 948 | 954 | 945 | 946 | 441 |
| 35° | 850 | 844 | 846 | 837 | 839 | 532 |
| 45° | 719 | 712 | 712 | 704 | 705 | 554 |
| 55° | 564 | 561 | 557 | 550 | 550 | 503 |
| 65° | 393 | 389 | 383 | 377 | 378 | 387 |
| 75° | 202 | 201 | 198 | 196 | 195 | 215 |
| 85° | 40 | 45 | 46 | 48 | 48 | 50 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 24 | 123 | 421 | 274 | 192 | 27 |
| 105° | 95 | 164 | 714 | 924 | 913 | 100 |
| 115° | 174 | 222 | 574 | 1088 | 1214 | 172 |
| 125° | 248 | 285 | 498 | 866 | 1017 | 221 |
| 135° | 304 | 340 | 478 | 682 | 785 | 235 |
| 145° | 360 | 386 | 469 | 580 | 626 | 225 |
| 155° | 412 | 430 | 475 | 514 | 533 | 190 |
| 165° | 456 | 463 | 481 | 488 | 495 | 129 |
| 175° | 482 | 480 | 482 | 478 | 477 | 46 |
| 180° | 477 | 477 | 477 | 477 | 477 | |



TEST NUMBER: P521467

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1067.2 | 1067.2 | 1067.2 | 1067.2 | 1067.2 |
| 2.5° | 1072.9 | 1065.0 | 1068.0 | 1065.5 | 1061.6 |
| 5° | 1071.3 | 1061.4 | 1064.2 | 1062.2 | 1061.2 |
| 7.5° | 1063.6 | 1053.7 | 1057.5 | 1054.5 | 1054.3 |
| 10° | 1057.1 | 1047.3 | 1051.1 | 1048.0 | 1047.0 |
| 12.5° | 1049.0 | 1038.4 | 1042.2 | 1039.1 | 1038.9 |
| 15° | 1033.9 | 1022.0 | 1026.8 | 1024.8 | 1024.8 |
| 17.5° | 1015.1 | 1003.4 | 1009.2 | 1005.6 | 1004.0 |
| 20° | 1000.5 | 989.7 | 995.5 | 989.4 | 989.4 |
| 22.5° | 985.2 | 974.3 | 979.3 | 972.4 | 972.4 |
| 25° | 958.1 | 948.2 | 954.0 | 945.0 | 946.0 |
| 27.5° | 928.6 | 919.7 | 924.7 | 916.1 | 916.5 |
| 30° | 907.6 | 898.7 | 904.5 | 893.5 | 895.4 |
| 32.5° | 885.7 | 877.6 | 881.1 | 871.6 | 872.0 |
| 35° | 850.0 | 844.0 | 845.9 | 836.9 | 838.8 |
| 37.5° | 813.2 | 806.2 | 808.1 | 798.9 | 800.8 |
| 40° | 787.3 | 780.4 | 782.2 | 772.2 | 774.2 |
| 42.5° | 759.8 | 753.7 | 754.7 | 744.7 | 747.5 |
| 45° | 718.6 | 711.6 | 712.5 | 703.5 | 705.4 |
| 47.5° | 674.3 | 668.8 | 667.6 | 659.4 | 661.2 |
| 50° | 642.8 | 638.8 | 637.7 | 628.6 | 629.6 |
| 52.5° | 611.2 | 608.1 | 605.4 | 597.1 | 599.7 |
| 55° | 563.9 | 561.0 | 556.9 | 549.8 | 549.8 |
| 57.5° | 514.8 | 511.9 | 506.7 | 499.7 | 501.7 |
| 60° | 480.1 | 477.1 | 472.0 | 464.9 | 466.9 |
| 62.5° | 445.3 | 442.3 | 436.4 | 430.2 | 431.3 |
| 65° | 393.1 | 389.2 | 383.0 | 377.0 | 378.0 |
| 67.5° | 337.2 | 333.4 | 328.3 | 322.4 | 323.6 |
| 70° | 299.2 | 296.2 | 291.1 | 286.1 | 288.0 |
| 72.5° | 259.5 | 256.6 | 252.3 | 249.6 | 249.2 |
| 75° | 202.1 | 201.1 | 198.1 | 196.0 | 195.1 |
| 77.5° | 147.8 | 149.1 | 145.5 | 144.7 | 144.5 |
| 80° | 112.2 | 115.1 | 113.2 | 113.2 | 112.2 |
| 82.5° | 80.6 | 85.2 | 84.1 | 84.1 | 83.9 |
| 85° | 40.4 | 45.4 | 45.5 | 47.5 | 47.5 |
| 87.5° | 11.3 | 16.1 | 18.6 | 19.4 | 19.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 8.1 | 66.6 | 156.9 | 76.3 | 51.7 |
| 95° | 24.3 | 123.1 | 421.4 | 274.0 | 192.0 |
| 97.5° | 43.1 | 136.3 | 555.0 | 534.7 | 459.0 |
| 100° | 57.6 | 144.6 | 628.6 | 663.6 | 601.3 |
| 102.5° | 71.4 | 152.0 | 677.1 | 770.9 | 733.9 |
| 105° | 95.0 | 164.2 | 714.5 | 924.5 | 912.6 |
| 107.5° | 118.2 | 178.5 | 692.5 | 1047.7 | 1075.5 |
| 110° | 134.4 | 190.7 | 656.9 | 1100.8 | 1153.1 |



TEST NUMBER: P521467

CATALOG NUMBER: SQ4-F-075U-075D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 150.6 | 203.0 | 625.4 | 1113.7 | 1203.3 |
| 115° | 173.8 | 222.3 | 574.0 | 1088.3 | 1213.8 |
| 117.5° | 196.9 | 242.5 | 543.9 | 1029.8 | 1176.8 |
| 120° | 212.2 | 254.7 | 524.5 | 983.8 | 1138.0 |
| 122.5° | 228.4 | 267.7 | 512.4 | 936.9 | 1088.7 |
| 125° | 247.6 | 285.2 | 498.2 | 865.5 | 1016.7 |
| 127.5° | 266.6 | 302.0 | 488.3 | 805.1 | 937.9 |
| 130° | 277.9 | 312.5 | 485.1 | 763.0 | 893.4 |
| 132.5° | 288.4 | 324.6 | 480.3 | 732.6 | 843.3 |
| 135° | 304.2 | 339.8 | 478.0 | 682.5 | 785.3 |
| 137.5° | 319.2 | 354.9 | 471.0 | 648.6 | 726.0 |
| 140° | 330.5 | 363.1 | 471.0 | 624.2 | 695.3 |
| 142.5° | 341.8 | 374.4 | 466.9 | 602.9 | 663.0 |
| 145° | 359.8 | 386.5 | 468.9 | 580.1 | 625.6 |
| 147.5° | 376.6 | 402.5 | 467.7 | 553.9 | 591.4 |
| 150° | 387.1 | 409.8 | 471.0 | 542.4 | 572.0 |
| 152.5° | 398.4 | 420.3 | 470.2 | 530.2 | 556.7 |
| 155° | 412.3 | 430.1 | 475.0 | 513.8 | 532.6 |
| 157.5° | 429.1 | 444.3 | 474.0 | 507.6 | 518.7 |
| 160° | 435.6 | 448.4 | 478.0 | 499.4 | 507.3 |
| 162.5° | 446.1 | 457.4 | 476.4 | 496.9 | 501.7 |
| 165° | 455.8 | 462.7 | 481.1 | 488.3 | 495.2 |
| 167.5° | 467.7 | 472.3 | 479.9 | 487.7 | 487.9 |
| 170° | 471.0 | 473.9 | 483.1 | 482.2 | 487.1 |
| 172.5° | 476.6 | 478.8 | 480.7 | 482.8 | 479.9 |
| 175° | 482.1 | 480.1 | 482.1 | 478.0 | 477.0 |
| 177.5° | 481.1 | 481.1 | 479.4 | 477.7 | 473.8 |
| 180° | 477.0 | 477.0 | 477.0 | 477.0 | 477.0 |

(END OF REPORT)