

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: P521855

Luminaire Tested: **SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521855
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-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

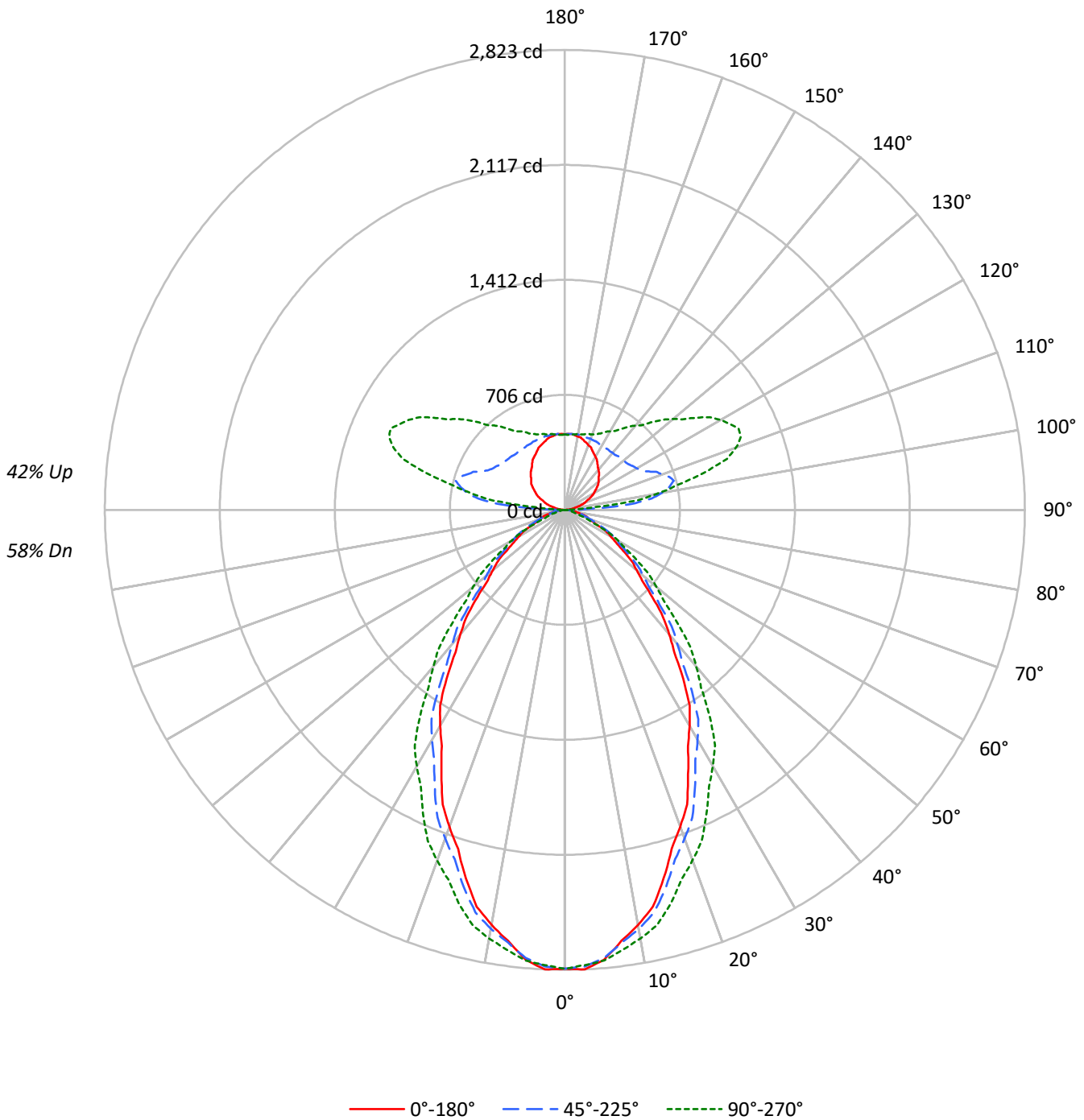
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7103.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.1
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: P521855
CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P521855

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

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 | 75 | 75 | 75 | 63 | 63 | 63 | 58 |
| 1 | 101 | 97 | 94 | 90 | 94 | 91 | 88 | 85 | 79 | 77 | 75 | 68 | 66 | 65 | 58 | 57 | 56 | 51 |
| 2 | 93 | 86 | 81 | 76 | 87 | 81 | 76 | 72 | 71 | 67 | 64 | 61 | 59 | 57 | 53 | 51 | 49 | 45 |
| 3 | 86 | 77 | 70 | 65 | 80 | 72 | 67 | 62 | 64 | 59 | 56 | 56 | 52 | 49 | 48 | 46 | 44 | 40 |
| 4 | 79 | 69 | 62 | 57 | 74 | 65 | 59 | 54 | 58 | 53 | 49 | 50 | 47 | 44 | 44 | 41 | 39 | 36 |
| 5 | 73 | 63 | 55 | 50 | 68 | 59 | 52 | 47 | 52 | 47 | 43 | 46 | 42 | 39 | 40 | 37 | 35 | 32 |
| 6 | 68 | 57 | 49 | 44 | 64 | 54 | 47 | 42 | 48 | 42 | 38 | 42 | 38 | 35 | 37 | 34 | 31 | 29 |
| 7 | 63 | 52 | 44 | 39 | 59 | 49 | 42 | 38 | 44 | 38 | 35 | 39 | 35 | 32 | 34 | 31 | 29 | 26 |
| 8 | 59 | 48 | 40 | 35 | 55 | 45 | 39 | 34 | 40 | 35 | 31 | 36 | 32 | 29 | 32 | 29 | 26 | 24 |
| 9 | 55 | 44 | 37 | 32 | 52 | 42 | 35 | 31 | 37 | 32 | 28 | 34 | 29 | 26 | 30 | 26 | 24 | 22 |
| 10 | 52 | 41 | 34 | 29 | 49 | 39 | 32 | 28 | 35 | 30 | 26 | 31 | 27 | 24 | 28 | 25 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 25986 | 25986 | 25986 |
| 5° | 25662 | 25570 | 25718 |
| 10° | 24244 | 24464 | 25032 |
| 15° | 22381 | 22900 | 23927 |
| 20° | 20324 | 21089 | 22484 |
| 25° | 18229 | 19224 | 20947 |
| 30° | 16300 | 17366 | 19354 |
| 35° | 14253 | 15284 | 17469 |
| 40° | 11997 | 12950 | 15122 |
| 45° | 9901 | 10755 | 12626 |
| 50° | 8266 | 9011 | 10520 |
| 55° | 7018 | 7732 | 8688 |
| 60° | 5997 | 6704 | 6933 |
| 65° | 4774 | 5639 | 4478 |
| 70° | 4235 | 4400 | 2733 |
| 75° | 3921 | 3568 | 1675 |
| 80° | 3613 | 3284 | 1445 |
| 85° | 3271 | 3006 | 1175 |



TEST NUMBER: P521855

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 258.3 | 3.6 |
| 10°-20° | 671.9 | 9.5 |
| 20°-30° | 870.4 | 12.3 |
| 30°-40° | 852.3 | 12.0 |
| 40°-50° | 652.4 | 9.2 |
| 50°-60° | 434.7 | 6.1 |
| 60°-70° | 237.2 | 3.3 |
| 70°-80° | 98.9 | 1.4 |
| 80°-90° | 28.0 | 0.4 |
| 90°-100° | 238.8 | 3.4 |
| 100°-110° | 577.2 | 8.1 |
| 110°-120° | 615.6 | 8.7 |
| 120°-130° | 498.6 | 7.0 |
| 130°-140° | 386.0 | 5.4 |
| 140°-150° | 294.5 | 4.1 |
| 150°-160° | 213.2 | 3.0 |
| 160°-170° | 131.3 | 1.8 |
| 170°-180° | 44.5 | 0.6 |
| 0°-30° | 1800.7 | 25.3 |
| 0°-40° | 2653.0 | 37.3 |
| 0°-60° | 3740.1 | 52.6 |
| 0°-90° | 4104.1 | 57.8 |
| 90°-120° | 1431.6 | 20.2 |
| 90°-150° | 2610.7 | 36.8 |
| 90°-180° | 3000.0 | 42.2 |
| 0°-180° | 7103.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2816 | 2816 | 2816 | 2816 | 2816 | |
| 5° | 2771 | 2743 | 2761 | 2767 | 2777 | 258 |
| 15° | 2343 | 2335 | 2398 | 2463 | 2505 | 654 |
| 25° | 1791 | 1796 | 1888 | 1971 | 2058 | 824 |
| 35° | 1266 | 1272 | 1357 | 1448 | 1551 | 787 |
| 45° | 759 | 773 | 824 | 887 | 968 | 592 |
| 55° | 436 | 454 | 481 | 499 | 540 | 396 |
| 65° | 219 | 237 | 258 | 226 | 205 | 227 |
| 75° | 110 | 110 | 100 | 69 | 47 | 117 |
| 85° | 31 | 31 | 28 | 18 | 11 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 24 | 120 | 409 | 266 | 186 | 26 |
| 105° | 92 | 159 | 694 | 898 | 886 | 97 |
| 115° | 169 | 216 | 557 | 1057 | 1178 | 167 |
| 125° | 240 | 277 | 484 | 840 | 987 | 215 |
| 135° | 295 | 330 | 464 | 663 | 762 | 228 |
| 145° | 349 | 375 | 455 | 563 | 607 | 218 |
| 155° | 400 | 418 | 461 | 499 | 517 | 185 |
| 165° | 442 | 449 | 467 | 474 | 481 | 125 |
| 175° | 468 | 466 | 468 | 464 | 463 | 44 |
| 180° | 463 | 463 | 463 | 463 | 463 | |



TEST NUMBER: P521855

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2816.5 | 2816.5 | 2816.5 | 2816.5 | 2816.5 |
| 2.5° | 2823.4 | 2798.3 | 2804.6 | 2804.4 | 2796.7 |
| 5° | 2770.8 | 2743.0 | 2760.9 | 2767.3 | 2776.9 |
| 7.5° | 2667.9 | 2646.9 | 2679.5 | 2703.7 | 2723.3 |
| 10° | 2587.8 | 2569.7 | 2611.3 | 2646.5 | 2671.9 |
| 12.5° | 2494.9 | 2479.7 | 2531.2 | 2578.5 | 2611.6 |
| 15° | 2343.2 | 2334.7 | 2397.5 | 2462.8 | 2505.0 |
| 17.5° | 2180.8 | 2176.7 | 2248.7 | 2324.9 | 2379.0 |
| 20° | 2070.0 | 2068.8 | 2147.9 | 2227.2 | 2290.0 |
| 22.5° | 1958.3 | 1961.0 | 2044.1 | 2126.5 | 2198.1 |
| 25° | 1790.7 | 1795.6 | 1888.4 | 1970.7 | 2057.7 |
| 27.5° | 1635.8 | 1637.9 | 1733.9 | 1820.8 | 1913.6 |
| 30° | 1530.0 | 1536.0 | 1630.1 | 1720.0 | 1816.7 |
| 32.5° | 1424.2 | 1431.2 | 1523.3 | 1616.2 | 1714.9 |
| 35° | 1265.5 | 1271.5 | 1357.0 | 1448.3 | 1551.0 |
| 37.5° | 1101.9 | 1110.1 | 1185.9 | 1272.2 | 1373.3 |
| 40° | 996.1 | 1008.2 | 1075.2 | 1156.5 | 1255.6 |
| 42.5° | 894.3 | 909.2 | 971.4 | 1048.5 | 1138.0 |
| 45° | 758.8 | 773.3 | 824.3 | 886.7 | 967.7 |
| 47.5° | 642.1 | 658.8 | 698.0 | 751.7 | 820.8 |
| 50° | 575.9 | 591.6 | 627.8 | 667.6 | 732.9 |
| 52.5° | 517.6 | 533.3 | 565.5 | 596.2 | 651.8 |
| 55° | 436.3 | 454.4 | 480.7 | 499.0 | 540.1 |
| 57.5° | 369.5 | 386.9 | 407.8 | 416.1 | 440.9 |
| 60° | 325.0 | 344.4 | 363.3 | 362.4 | 375.7 |
| 62.5° | 284.5 | 300.9 | 319.8 | 306.8 | 307.5 |
| 65° | 218.7 | 236.9 | 258.3 | 225.7 | 205.1 |
| 67.5° | 176.7 | 180.6 | 202.7 | 157.4 | 133.0 |
| 70° | 157.0 | 157.0 | 163.1 | 121.9 | 101.3 |
| 72.5° | 138.2 | 138.2 | 132.5 | 99.1 | 77.6 |
| 75° | 110.0 | 110.0 | 100.1 | 68.7 | 47.0 |
| 77.5° | 84.8 | 83.8 | 76.6 | 51.3 | 34.1 |
| 80° | 68.0 | 68.0 | 61.8 | 40.5 | 27.2 |
| 82.5° | 53.1 | 53.1 | 48.0 | 31.6 | 20.3 |
| 85° | 30.9 | 30.9 | 28.4 | 18.4 | 11.1 |
| 87.5° | 10.9 | 10.9 | 9.9 | 5.9 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 7.8 | 64.6 | 152.3 | 74.0 | 50.2 |
| 95° | 23.5 | 119.5 | 409.2 | 266.1 | 186.4 |
| 97.5° | 41.8 | 132.4 | 538.9 | 519.2 | 445.7 |
| 100° | 55.9 | 140.4 | 610.3 | 644.3 | 583.8 |
| 102.5° | 69.3 | 147.6 | 657.4 | 748.4 | 712.6 |
| 105° | 92.2 | 159.4 | 693.7 | 897.5 | 886.0 |
| 107.5° | 114.8 | 173.3 | 672.3 | 1017.2 | 1044.2 |
| 110° | 130.5 | 185.2 | 637.8 | 1068.7 | 1119.6 |

TEST NUMBER: P521855

CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 146.2 | 197.0 | 607.2 | 1081.3 | 1168.2 |
| 115° | 168.8 | 215.8 | 557.3 | 1056.6 | 1178.4 |
| 117.5° | 191.1 | 235.5 | 528.1 | 999.8 | 1142.5 |
| 120° | 206.1 | 247.3 | 509.2 | 955.2 | 1104.8 |
| 122.5° | 221.8 | 259.9 | 497.5 | 909.6 | 1057.0 |
| 125° | 240.4 | 276.9 | 483.7 | 840.3 | 987.1 |
| 127.5° | 258.8 | 293.2 | 474.1 | 781.6 | 910.6 |
| 130° | 269.8 | 303.4 | 471.0 | 740.8 | 867.4 |
| 132.5° | 280.0 | 315.2 | 466.3 | 711.3 | 818.7 |
| 135° | 295.3 | 329.9 | 464.1 | 662.6 | 762.4 |
| 137.5° | 309.9 | 344.6 | 457.2 | 629.7 | 704.9 |
| 140° | 320.9 | 352.5 | 457.2 | 606.0 | 675.1 |
| 142.5° | 331.8 | 363.5 | 453.3 | 585.3 | 643.7 |
| 145° | 349.3 | 375.2 | 455.3 | 563.2 | 607.4 |
| 147.5° | 365.6 | 390.7 | 454.1 | 537.7 | 574.2 |
| 150° | 375.8 | 397.9 | 457.2 | 526.6 | 555.4 |
| 152.5° | 386.8 | 408.1 | 456.5 | 514.7 | 540.5 |
| 155° | 400.3 | 417.6 | 461.2 | 498.9 | 517.1 |
| 157.5° | 416.6 | 431.4 | 460.2 | 492.8 | 503.6 |
| 160° | 422.9 | 435.4 | 464.1 | 484.9 | 492.6 |
| 162.5° | 433.1 | 444.0 | 462.5 | 482.5 | 487.1 |
| 165° | 442.5 | 449.2 | 467.1 | 474.1 | 480.8 |
| 167.5° | 454.1 | 458.5 | 465.9 | 473.5 | 473.7 |
| 170° | 457.2 | 460.1 | 469.0 | 468.1 | 472.9 |
| 172.5° | 462.7 | 464.9 | 466.7 | 468.8 | 465.9 |
| 175° | 468.0 | 466.1 | 468.0 | 464.1 | 463.1 |
| 177.5° | 467.1 | 467.1 | 465.5 | 463.8 | 460.0 |
| 180° | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 |

(END OF REPORT)