

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: P523764

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523764
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-125D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273.7 lumens
Efficiency: N/A
Efficacy: 104.1 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: Semi-Direct

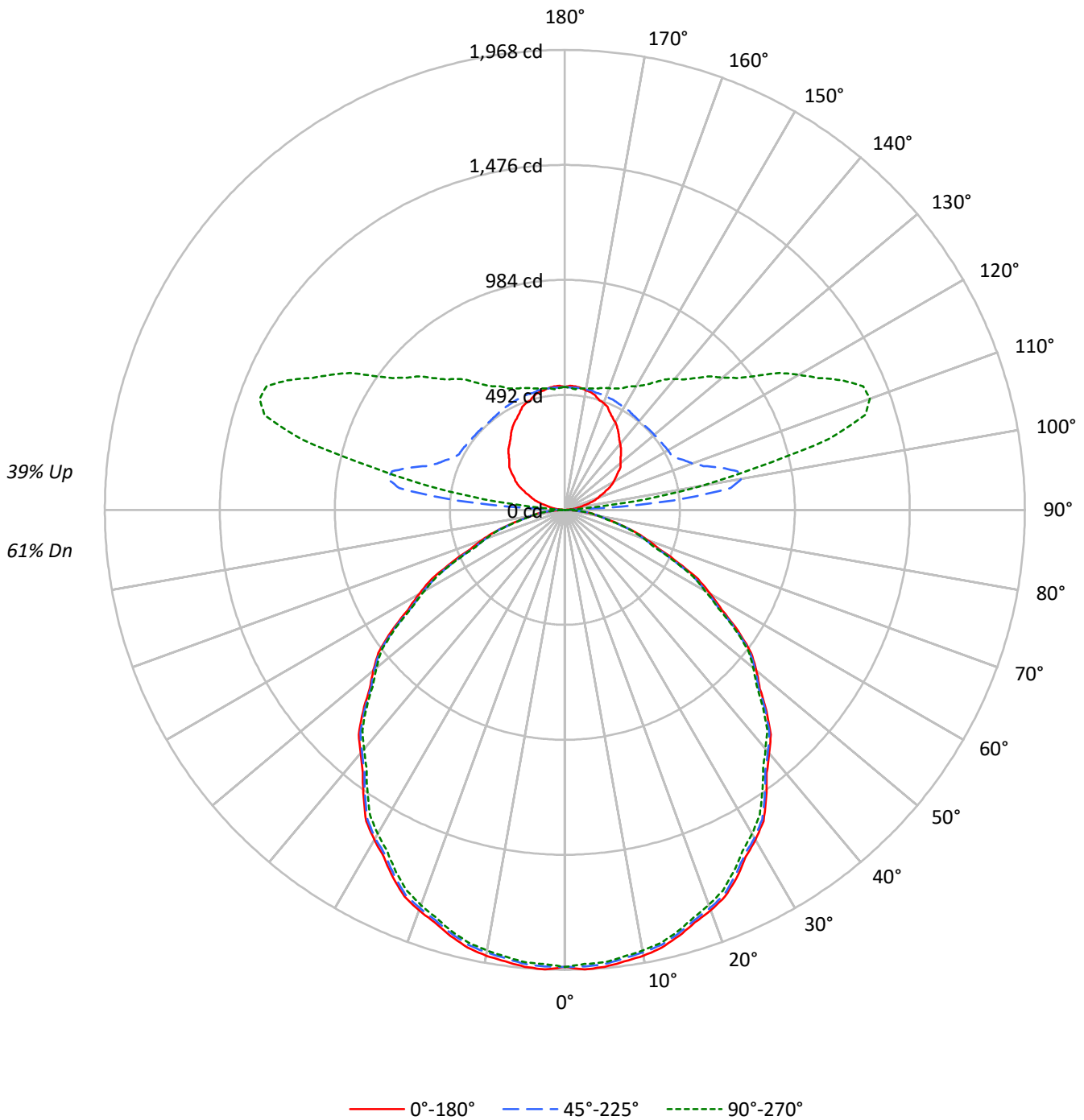
Input Watts (W): 79.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





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CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3500K)

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 89 | 89 | 89 | 77 | 77 | 77 | 66 | 66 | 66 | 61 |
| 1 | 100 | 96 | 92 | 89 | 94 | 90 | 87 | 84 | 79 | 76 | 74 | 68 | 66 | 65 | 59 | 57 | 56 | 52 |
| 2 | 92 | 84 | 78 | 73 | 85 | 79 | 74 | 69 | 69 | 65 | 62 | 60 | 57 | 54 | 52 | 50 | 48 | 43 |
| 3 | 84 | 74 | 67 | 61 | 78 | 70 | 63 | 58 | 61 | 56 | 52 | 53 | 49 | 46 | 46 | 43 | 41 | 37 |
| 4 | 77 | 66 | 58 | 52 | 71 | 62 | 55 | 49 | 54 | 49 | 44 | 48 | 43 | 40 | 41 | 38 | 35 | 32 |
| 5 | 70 | 59 | 51 | 44 | 66 | 55 | 48 | 42 | 49 | 43 | 38 | 43 | 38 | 35 | 37 | 34 | 31 | 28 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 42 | 37 | 44 | 38 | 34 | 39 | 34 | 30 | 34 | 30 | 27 | 24 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 30 | 27 | 31 | 27 | 24 | 22 |
| 8 | 56 | 43 | 36 | 30 | 52 | 41 | 34 | 29 | 37 | 31 | 26 | 32 | 28 | 24 | 28 | 24 | 22 | 19 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 26 | 22 | 20 | 17 |
| 10 | 49 | 36 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 25 | 21 | 28 | 23 | 20 | 24 | 20 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18046 | 18046 | 18046 |
| 5° | 18179 | 18068 | 18004 |
| 10° | 18149 | 18019 | 17940 |
| 15° | 18028 | 17930 | 17832 |
| 20° | 17909 | 17807 | 17673 |
| 25° | 17696 | 17574 | 17400 |
| 30° | 17368 | 17277 | 17058 |
| 35° | 16914 | 16798 | 16586 |
| 40° | 16373 | 16270 | 16083 |
| 45° | 15926 | 15814 | 15657 |
| 50° | 15354 | 15256 | 15108 |
| 55° | 14560 | 14367 | 14256 |
| 60° | 13254 | 12874 | 12812 |
| 65° | 11677 | 11191 | 11153 |
| 70° | 10081 | 9665 | 9665 |
| 75° | 8677 | 8555 | 8434 |
| 80° | 7651 | 7741 | 7561 |
| 85° | 5992 | 6531 | 6531 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.0 | 2.2 |
| 10°-20° | 528.1 | 6.4 |
| 20°-30° | 791.1 | 9.6 |
| 30°-40° | 927.9 | 11.2 |
| 40°-50° | 930.8 | 11.2 |
| 50°-60° | 794.0 | 9.6 |
| 60°-70° | 517.8 | 6.3 |
| 70°-80° | 259.8 | 3.1 |
| 80°-90° | 71.9 | 0.9 |
| 90°-100° | 239.7 | 2.9 |
| 100°-110° | 682.0 | 8.2 |
| 110°-120° | 653.4 | 7.9 |
| 120°-130° | 517.2 | 6.3 |
| 130°-140° | 415.1 | 5.0 |
| 140°-150° | 325.0 | 3.9 |
| 150°-160° | 237.8 | 2.9 |
| 160°-170° | 147.3 | 1.8 |
| 170°-180° | 50.0 | 0.6 |
| 0°-30° | 1504.1 | 18.2 |
| 0°-40° | 2432.0 | 29.4 |
| 0°-60° | 4156.8 | 50.2 |
| 0°-90° | 5006.3 | 60.5 |
| 90°-120° | 1575.1 | 19.0 |
| 90°-150° | 2832.3 | 34.2 |
| 90°-180° | 3267.0 | 39.5 |
| 0°-180° | 8273.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1956 | 1956 | 1956 | 1956 | 1956 | |
| 5° | 1963 | 1944 | 1951 | 1944 | 1944 | 186 |
| 15° | 1887 | 1869 | 1877 | 1870 | 1867 | 532 |
| 25° | 1738 | 1718 | 1726 | 1711 | 1709 | 799 |
| 35° | 1502 | 1487 | 1491 | 1474 | 1473 | 938 |
| 45° | 1221 | 1212 | 1212 | 1200 | 1200 | 940 |
| 55° | 905 | 902 | 893 | 888 | 886 | 804 |
| 65° | 535 | 525 | 513 | 509 | 511 | 534 |
| 75° | 243 | 243 | 240 | 238 | 237 | 264 |
| 85° | 57 | 62 | 62 | 62 | 62 | 66 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 26 | 103 | 464 | 161 | 99 | 30 |
| 105° | 106 | 161 | 695 | 1228 | 1167 | 112 |
| 115° | 197 | 238 | 527 | 1116 | 1311 | 194 |
| 125° | 278 | 308 | 503 | 835 | 998 | 249 |
| 135° | 340 | 368 | 497 | 705 | 797 | 262 |
| 145° | 401 | 422 | 501 | 610 | 665 | 250 |
| 155° | 458 | 469 | 513 | 552 | 574 | 212 |
| 165° | 506 | 508 | 519 | 530 | 538 | 142 |
| 175° | 530 | 527 | 525 | 522 | 518 | 50 |
| 180° | 526 | 526 | 526 | 526 | 526 | |

TEST NUMBER: P523764

CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1956.0 | 1956.0 | 1956.0 | 1956.0 | 1956.0 |
| 2.5° | 1968.4 | 1952.3 | 1956.0 | 1953.1 | 1945.0 |
| 5° | 1962.9 | 1944.4 | 1950.9 | 1944.0 | 1944.0 |
| 7.5° | 1949.5 | 1929.4 | 1935.8 | 1928.9 | 1928.6 |
| 10° | 1937.2 | 1917.0 | 1923.4 | 1916.6 | 1914.9 |
| 12.5° | 1919.3 | 1899.2 | 1907.0 | 1898.8 | 1898.4 |
| 15° | 1887.4 | 1869.0 | 1877.2 | 1870.2 | 1866.9 |
| 17.5° | 1851.4 | 1831.3 | 1841.2 | 1831.5 | 1830.2 |
| 20° | 1824.0 | 1803.9 | 1813.7 | 1800.0 | 1800.0 |
| 22.5° | 1791.1 | 1771.0 | 1782.2 | 1764.4 | 1764.4 |
| 25° | 1738.3 | 1718.2 | 1726.3 | 1710.8 | 1709.2 |
| 27.5° | 1675.6 | 1655.8 | 1664.2 | 1646.8 | 1646.4 |
| 30° | 1630.3 | 1611.9 | 1621.7 | 1602.8 | 1601.2 |
| 32.5° | 1580.9 | 1563.8 | 1571.0 | 1552.1 | 1550.4 |
| 35° | 1501.7 | 1486.6 | 1491.4 | 1474.3 | 1472.6 |
| 37.5° | 1418.4 | 1403.0 | 1408.5 | 1393.7 | 1393.0 |
| 40° | 1359.4 | 1349.4 | 1350.9 | 1338.8 | 1335.4 |
| 42.5° | 1304.6 | 1293.2 | 1294.6 | 1282.6 | 1282.0 |
| 45° | 1220.6 | 1212.2 | 1212.0 | 1200.0 | 1200.0 |
| 47.5° | 1131.4 | 1125.1 | 1123.2 | 1113.3 | 1112.9 |
| 50° | 1069.7 | 1064.7 | 1062.9 | 1054.3 | 1052.6 |
| 52.5° | 1005.3 | 1002.9 | 997.0 | 989.8 | 989.5 |
| 55° | 905.2 | 901.8 | 893.2 | 888.0 | 886.3 |
| 57.5° | 796.5 | 789.8 | 780.0 | 772.5 | 773.8 |
| 60° | 718.3 | 711.6 | 697.7 | 694.3 | 694.3 |
| 62.5° | 642.9 | 634.8 | 620.9 | 616.2 | 618.9 |
| 65° | 534.9 | 524.8 | 512.6 | 509.2 | 510.9 |
| 67.5° | 436.8 | 427.8 | 414.5 | 414.5 | 413.1 |
| 70° | 373.7 | 368.7 | 358.3 | 358.3 | 358.3 |
| 72.5° | 317.5 | 315.1 | 307.5 | 307.5 | 306.2 |
| 75° | 243.4 | 243.4 | 240.0 | 238.2 | 236.6 |
| 77.5° | 182.4 | 183.1 | 181.4 | 179.6 | 176.6 |
| 80° | 144.0 | 147.4 | 145.7 | 144.0 | 142.3 |
| 82.5° | 108.3 | 111.7 | 111.4 | 108.3 | 108.0 |
| 85° | 56.6 | 61.6 | 61.7 | 61.7 | 61.7 |
| 87.5° | 15.1 | 20.4 | 21.9 | 22.0 | 23.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 8.0 | 42.4 | 98.4 | 28.6 | 21.6 |
| 95° | 26.0 | 103.2 | 464.0 | 160.6 | 99.0 |
| 97.5° | 47.8 | 120.9 | 714.6 | 511.3 | 350.4 |
| 100° | 63.0 | 131.4 | 769.0 | 778.9 | 600.0 |
| 102.5° | 79.8 | 142.8 | 757.0 | 997.0 | 840.8 |
| 105° | 106.0 | 160.8 | 695.0 | 1227.6 | 1167.0 |
| 107.5° | 132.6 | 181.7 | 622.6 | 1292.6 | 1346.6 |
| 110° | 151.0 | 197.0 | 581.0 | 1267.8 | 1389.0 |

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CATALOG NUMBER: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|--------|--------|
| 112.5° | 168.6 | 212.2 | 553.0 | 1208.9 | 1381.8 |
| 115° | 197.0 | 238.1 | 527.0 | 1116.4 | 1311.0 |
| 117.5° | 222.0 | 260.5 | 511.6 | 1015.3 | 1221.4 |
| 120° | 242.0 | 274.3 | 510.0 | 957.5 | 1155.0 |
| 122.5° | 258.0 | 290.3 | 506.0 | 906.8 | 1090.2 |
| 125° | 278.0 | 308.3 | 503.0 | 834.7 | 998.0 |
| 127.5° | 299.8 | 328.2 | 501.4 | 791.7 | 926.2 |
| 130° | 311.0 | 339.4 | 499.0 | 761.7 | 879.0 |
| 132.5° | 323.0 | 350.6 | 499.0 | 738.3 | 846.2 |
| 135° | 340.0 | 368.4 | 497.0 | 705.1 | 797.0 |
| 137.5° | 356.0 | 383.6 | 496.8 | 677.0 | 756.4 |
| 140° | 368.0 | 396.4 | 496.0 | 653.7 | 730.0 |
| 142.5° | 381.6 | 405.3 | 498.4 | 635.2 | 703.6 |
| 145° | 401.0 | 421.5 | 501.0 | 610.2 | 665.0 |
| 147.5° | 417.6 | 437.5 | 505.4 | 585.1 | 632.4 |
| 150° | 432.0 | 445.7 | 507.0 | 576.8 | 610.0 |
| 152.5° | 443.2 | 457.7 | 508.6 | 565.5 | 596.4 |
| 155° | 458.0 | 468.8 | 513.0 | 551.5 | 574.0 |
| 157.5° | 476.4 | 482.9 | 514.0 | 545.2 | 561.2 |
| 160° | 486.0 | 490.9 | 518.0 | 540.3 | 554.0 |
| 162.5° | 491.6 | 497.3 | 518.8 | 536.2 | 546.8 |
| 165° | 506.0 | 508.0 | 519.0 | 530.2 | 538.0 |
| 167.5° | 515.8 | 514.0 | 523.6 | 528.7 | 531.8 |
| 170° | 519.0 | 518.0 | 522.0 | 523.1 | 527.0 |
| 172.5° | 526.2 | 522.9 | 524.4 | 521.5 | 524.6 |
| 175° | 530.0 | 527.1 | 525.0 | 521.9 | 518.0 |
| 177.5° | 531.6 | 526.9 | 524.4 | 521.2 | 522.0 |
| 180° | 526.0 | 526.0 | 526.0 | 526.0 | 526.0 |

(END OF REPORT)